ROLL NO. BE

OFFICIAL GAZETTE UNITED STATES PATENT OFFICE

JULY & AUGUST 1933

VOLS. 432 & 433

MICRO — PHOTO INC

CLEVELAND 3, OHIO

CARNEGIE LIBRARY OF A

OFFICIAL GAZETTE

OF THE

UNITED STATES PATENT OFFICE

VOLUME 432

JULY

1933

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1933

R608
13
v.432 July 1933

CONTENTS

	Page
DECISIONS OF THE COMMISSIONER OF PATENTS, July 4, 11, 18, 25	3, 261, 513, 753
TRADE-MARKS PUBLISHED AND REGISTERED, July 4, 11, 18, 25	11, 269, 521, 761
LABELS AND PRINTS REGISTERED, July 4, 11, 18, 25	44, 307, 533, 795
REISSUES, July 4, 11, 18, 25	47, 309, 555, 797
PLANT PATENTS, July 18, 25	556, 798
DESIGNS, July 4, 11, 18, 25	48, 310, 557, 798
PATENTS, July 4, 11, 18, 25	60, 316, 567, 807

ANNOUNCEMENTS

	Page
ADVERSE DECISIONS IN INTERFERENCE	1, 259, 751
APPLICATIONS—Condition of pending	2, 260, 512, 752
COMMITTEE APPOINTED—Study conditions in the Patent Office	751
DISCLAIMERS—Arnold, Harold De Forest	520
Blattner, David G	520
Gilson, Robert M	520
Howard, Lemuel F	520
Ideal Marketeria Company, Trade-Mark "Im-Co"	1
Janson, George W	760
Jones, Edwin A	268
Laird, Wilbur G	268
Lucas, Samuel M	520
Mathes, Robert C	760
Metzger, Floyd J	268
Metzger, Floyd J., and George Carl Bauer	268
Millholland, William K	268
Sturges, John Edwin	268
Thompson, Howard A	520
Thompson, Howard A., and Charles W. Fallor	520
Walsoe, Sigurd L	268
DRAWINGS—Correction of—Rule 72	511
Reissue applications	511
PATENT SUITS	9, 267, 518, 759
PATENTS—List of adjudicated	1, 511, 751
PHOTOSTAT COPIES—Instructions relating to ordering	259
REISSUE APPLICATIONS—Drawings	511
RENEWAL OF FORFEITED CASES	259
TRADE-MARKS—Canceled	259
Copies	511
Notice of cancellation	1, 259, 511, 751

TABLE OF CASES REPORTED

	Page
* Bayer. In re	756
* Bell *v.* Hoffmann	516
* Benbow and Green. In re	265
* Brandt. In re	753
* Castonguay. In re	263
* Covey. In re	756
* Evans *v.* Clocker and MacFarlane	515
* Hamilton. In re	263
* Harlan-Wallins Coal Corp. *v.* Transcontinental Oil Co. (The Ohio Oil Company, assignee, substituted)	514
Heath *v.* Jacke *v.* Rice	261
* Knauss and Adler *v.* Anderson and Anderson *v.* Knauss and Adler	8
* Lawner *v.* Katzman	4
* Nystrom and Landwehr *v.* Mancuso	753
ª Otto *v.* Robertson, Commissioner of Patents	757
* Sessions *v.* Schmidt	266
* Short. In re	513
* Thompson *v.* Fawick	261
* Wagner. In re	8

[Decisions of the Court of Appeals of the District of Columbia are indicated by the letter (ª) and of the United States Court of Customs and Patent Appeals by a star (*).]

ERRATA

Labels, page 574, No. 42,274, name of registrant, for "H. F. Pfunder Inc." read *F. H. Pfunder Inc.*

332040

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Acme Chemical Company, Milwaukee, Wis. Floor dressing. Serial No. 336,668; July 4. Class 4.

Aktieselskabet Kymeia, Copenhagen, Denmark. Chemical, curing and preserving preparations. Serial No. 334,785; July 4. Class 6.

All-American Accordion Company. (See Wurlitzer Grand Piano Company.)

Allcock Manufacturing Co., Ossining, N. Y. Pills having a laxative effect. Serial No. 337,408; July 4. Class 6.

Alpine Tanning Company, New York, N. Y. Sheepskin. Serial No. 337,550; July 4. Class 1.

American Safety Razor Corporation, Brooklyn, N. Y. Razors and blades. Serial No. 337,906; July 4. Class 23.

American Sheet and Tin Plate Company, Pittsburgh, Pa. Sheets and plates. Serial No. 330,328; July 4. Class 14.

Analgesic nasal balm. W. T. Corn. Serial No. 336,818; July 4. Class 6.

Anderson, Dobson & Co. Limited, London, England. Wine. Serial No. 338,350; July 4. Class 47.

Aristocratic Co. (See Polychronopoulos, Stamatis.)

Assim, Alexander M., doing business as Alexander M. Assim & Co., Chicago, Ill. Dried fruits. Serial No. 337,589; July 4. Class 46.

Bagatelle. (See Sinagnan, Frances, et Cie Incorporated.)

Bancroft Walker Company, Boston, Mass. Shoes. Serial No. 337,630; July 4. Class 39.

Barnes, Henry K., Company, Boston, Mass. Lace leather. Serial No. 337,453; July 4. Class 1.

Barnett Operating Company, Oklahoma City, Okla. Coffee brewers. Serial No. 331,356; July 4. Class 13.

Baum, Ernest, doing business as Ernest Baum Products Company, Los Angeles, Calif. Permanent waving machines, pads, etc. Serial No. 335,987; July 4. Class 44.

Bergfelder, Theodore F., Sedalia, Mo. Cooked product. Serial No. 329,782; July 4. Class 46.

Berry, Dodge Company, Boston, Mass. Coffee. Serial No. 336,587; July 4. Class 46.

Bickum, Dorothy, New York, N. Y. Foundation garments, bandettes, etc. Serial No. 337,414; July 4. Class 39.

Blackstone Remedies Co., New York, N. Y. Headache powders. Serial No. 337,066; July 4. Class 6.

Blecker Beauty Shops, Inc., Chicago, Ill. Hair wave pads. Serial No. 332,222; July 4. Class 44.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. Serial No. 337,728; July 4. Class 42.

Boyd, Helen H., Toledo, Ohio. Newspaper magazine columns and/or pamphlet articles and illustrations. Serial No. 337,877; July 4. Class 38.

Braniferger, Ernest F., Denver, Colo. Root beer. Serial No. 327,787; July 4. Class 45.

Bristol Aeroplane Company Limited, The, Bristol, England. Aircraft engines. Serial No. 335,766; July 4. Class 23.

British Columbia Distillery Company Limited, The, Vancouver, British Columbia, Canada. Rye whisky and gin. Serial No. 333,308; July 4. Class 49.

Brog, Paul, Thayne, Wyo. Cheese. Serial No. 333,916; July 4. Class 46.

Brush-A-Way Products, Inc., Cleveland, Ohio. Fountain cleaning brush. Serial No. 337,665; July 4. Class 29.

Cal-Baden Mineral Water. (See Gregg, Augustus H.)

Calbest Milk Co. (See Meyenberg Laboratories, Inc.)

Calderazzi, Lorenzo, doing business as The Reviver Company, Portsmouth, Va. Hair tonic and dressing. Serial No. 336,856; July 4. Class 6.

California Consumers Company, Los Angeles, Calif. Fruit juices. Serial No. 334,002; July 4. Class 45.

Caltex Sportswear, Inc., Los Angeles, Calif. Women's knitted sportwear. Serial No. 334,427; July 4. Class 39.

Camillo Laboratories. (See Rosasco, Camillo.)

Campbell, Walter W., Somerville, Mass. Breads, cakes, etc. Serial No. 325,318; July 4. Class 46.

Candy Specialties Company, Chicago, Ill. Candy. Serial No. 337,598; July 4. Class 46.

Carson Pirie Scott & Co., Chicago, Ill. Sheet aluminum ware, cast aluminum ware, etc. Serial No. 326,536; July 4. Class 13.

Carson Pirie Scott and Company, Chicago, Ill. Dish cloths. Serial No. 337,329; July 4. Class 42.

Carthage Mills Incorporated, Cincinnati, Ohio. Floor coverings. Serial No. 337,178; July 4. Class 20.

Central Specialty Company. (See Hilton, G. C.)

Chase Investment Company, Sanford, Fla. Citrus fruits. Serial No. 336,978; July 4. Class 46.

Chemische Vertriebsgesellschaft m. b. H. Gereco, Gereco in Wiesbaden, Germany. Medicinal preparation. Serial No. 335,576; July 4. Class 6.

Closure Service Company, The, Toledo, Ohio. Closure caps. Serial No. 337,420; July 4. Class 50.

Colgate-Palmolive-Peet Company, Chicago, Ill. Soap. Serial No. 335,770; July 4. Class 4.

Consolidated Distilleries, Limited, Montreal, Quebec, Canada. Whisky, etc. Serial No. 337,024; July 4. Class 49.

Continental Blade Corporation, Brooklyn, N. Y. Razors and blades. Serial No. 337,995; July 4. Class 23.

Continental Blade Corporation, Brooklyn, N. Y. Razors and blades. Serial No. 338,137; July 4. Class 23.

Corn, William T., doing business as Corn Co., Cleveland, Tenn. Analgesic nasal balm. Serial No. 336,818; July 4. Class 6.

Davis, John P., doing business as No-Per-Spiro Company, Lake Providence, La. Antiseptic deodorant. Serial No. 335,020; July 4. Class 6.

Delman, Inc., New York, N. Y. Shoes. Serial No. 336,713; July 4. Class 39.

Des-Art Inc., New York, N. Y. Hosiery. Serial No. 336,901; July 4. Class 39.

Dick, A. B., Company, Chicago, Ill. Duplicating machines and parts thereof. Serial No. 337,843; July 4. Class 23.

Driver-Harris Company, Harrison, N. J. Alloys of nickel, chromium, etc. Serial No. 337,556; July 4. Class 14.

Drury, Abner, Brewery, Inc., Washington, D. C. Malt beverages. Serial No. 335,269; July 4. Class 48.

Du Bois Brewing Company, Du Bois, Pa. Malt beverages. Serial No. 335,634; July 4. Class 48.

E. Z. Automatic Battery Filler Co. (See Long & Tatum.)

Eck, Louis O., Detroit, Mich. Moth destroyer and disinfecting compound. Serial No. 336,757; July 4. Class 6.

Eckhardt, George, doing business as Eckhardt Laboratories, Chicago, Ill. Salves and ointments. Serial No. 336,266; July 4. Class 6.

Ehlers, Albert, Inc., Brooklyn, N. Y. Tea and coffee. Serial No. 337,667; July 4. Class 46.

Elk's Bottling Works. (See Lozenski, Joseph J.)

El Solyo Ranch. (See Meridian Ltd.)

Empire Silk Company, New York, N. Y. Piece goods of silk and rayon, etc. Serial No. 337,778; July 4. Class 42.

Falac Smooth-Edge Company, Belleville, N. J. Razor strop dressing. Serial No. 335,668; July 4. Class 4.

Famous Mineral Water Co., Mineral Wells, Tex. Mineral crystals and evaporated mineral water residue. Serial No. 337,668; July 4. Class 6.

Faultless Hosiery Company, Washington, D. C. Brassières. Serial No. 337,026; July 4. Class 39.

Fawkes, Charles G., Denver, Colo. Can openers. Serial No. 334,241; July 4. Class 23.

Figaro Company, The, Dallas, Tex. Smoke sauce. Serial No. 323,396; July 4. Class 46.

Fincher, Thornton M., doing business as Veg-E-Trate Sales Company, Atlanta, Ga. Vegetable concentrates. Serial No. 336,606; July 4. Class 6.

Firestone Tire & Rubber Company, The, Akron, Ohio. Tire covers, gaskets, hose, etc. Serial No. 329,899; July 4. Class 35.

Floating Flame Burner Company, The. (See Rogers, William B.)

Fuld & Heimendinger, New York, N. Y. Net sport caps. Serial No. 337,424; July 4. Class 39.

Fuld & Heimendinger, New York, N. Y. Veils and hair nets. Serial No. 337,512; July 4. Class 42.

General Vegetable Oil Company, Inc., New York, N. Y. Vegetable shortening. Serial Nos. 337,559–61; July 4. Class 46.

General Vegetable Oil Company, Inc., New York, N. Y. Vegetable shortening. Serial Nos. 337,563–4; July 4. Class 46.

Gillette Rubber Company, Eau Claire, Wis. Tires and tubes. Serial No. 338,086; July 4. Class 35.

Gimbel Brothers, Inc., New York, N. Y. Suits and overcoats. Serial No. 337,334; July 4. Class 39.

Glass Wonder Products Company. (See Hansard, James M., assignor.)

Gluck, Lew L., Inc., New York, N. Y. Dresses. Serial No. 337,516; July 4. Class 39.

Goerz Flour Mills Company, The, Newton, Kans. Wheat flour. Serial No. 337,606; July 4. Class 46.

Goodall Worsted Co., Sanford, Me. Wearing apparel. Serial No. 337,635; July 4. Class 39.

Goodrich, D. M., New York, N. Y. Tops for tables and counters. Serial No. 336,866; July 4. Class 32.

Graupner, Robert H., Harrisburg, Pa. Malt beverages. Serial No. 337,695; July 4. Class 48.

Gregg, Augustus H., doing business as Cal-Baden Mineral Water, Whittier, Calif. Mineral water. Serial No. 337,849; July 4. Class 45.

Grenoville, Inc., New York, N. Y. Face powder, rouge, etc. Serial No. 328,606; July 4. Class 6.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Hanes, P. H., Knitting Company, Winston-Salem, N. C. Wearing apparel. Serial No. 336,284; July 4. Class 39.

Hansard, James M., doing business as Glass Wonder Products Company, Lakeland, Fla. Glass and metal cleaning and polishing compound. Serial No. 337,697; July 4. Class 4.

Hartmann, Reina K. G., doing business as Knit-Tainer Company, Winnetka, Ill. Portfolios. Serial No. 337,468; July 4. Class 3.

Heddon's, James, Sons, Dowagiac, Mich. Fishing rods. Serial No. 338,005; July 4. Class 22.

Herlihy, R. M., Company, Weston, W. Va. Face lotion. Serial No. 337,297; July 4. Class 6.

Heyer, George S., Houston, assignor to San Antonio Drug Company, San Antonio, Tex. Skin powder. Serial No. 335,782; July 4. Class 6.

Hilton, G. C., doing business as Central Specialty Company, Hutchinson, Kans. Cement or glue. Serial No. 315,748; July 4. Class 5.

Houde Engineering Corporation, Buffalo, N. Y. Shock absorber fluid. Serial Nos. 338,049–50; July 4. Class 15.

Hudelson Distributing Co., Los Angeles, Calif. Canned oysters. Serial No. 336,648; July 4. Class 46.

Hultman & Powell Corporation, Dover, Del. Cellulose material. Serial No. 337,786; July 4. Class 1.

Isaac, I., & Son Corp., New York, N. Y. Neckties and scarfs. Serial No. 334,798; July 4. Class 39.

J. R. B. Industries, Inc., Manteno, Ill. Artificial fish baits. Serial No. 338,248; July 4. Class 22.

Johnson, Clarence R., Lumberville, Pa. Bird houses. Serial No. 337,747; July 4. Class 50.

Johnson Oil Refining Company, Chicago, Ill. Insecticide. Serial No. 330,478; July 4. Class 6.

Johnson, Thomas L., New York, N. Y. Hosiery. Serial No. 337,472; July 4. Class 39.

Juvenile Shoe Corporation of America, The, Aurora and St. Louis, Mo. Shoes and slippers. Serial No. 337,699; July 4. Class 39.

Keleher, A. H., Co. Inc., New York, N. Y. Radio receiving sets. Serial No. 337,637; July 4. Class 21.

King Features Syndicate, Inc., New York, N. Y. Column or section of a newspaper. Serial No. 337,789; July 4. Class 38.

King Laboratories, Inc., Syracuse, N. Y. Getters used in the evacuation of vacuum tubes. Serial No. 337,431; July 4. Class 6.

Kingston, Austin G., San Antonio, Tex. Wearing apparel. Serial No. 337,701; July 4. Class 39.

Knit-Tainer Company. (See Hartmann, Reina K. G.)

Koch Beverage Co., Inc., The, Wapakoneta, Ohio. Malt beverages. Serial No. 338,249; July 4. Class 48.

Kresge Department Store Corporation, Newark, N. J. Tableware of china, crockery, etc. Serial No. 334,492; July 4. Class 30.

L. & C. Manufacturing Co., New York, N. Y. Gowns, pajamas, etc. Serial No. 337,280; July 4. Class 39.

Lambert Pharmacal Company, Wilmington, Del. Atomizers. Serial No. 337,339; July 4. Class 44.

Landau, Max, doing business as Max Landau & Co., New York, N. Y. Cheese. Serial No. 335,125; July 4. Class 46.

Largay Brewing Co. Incorporated, Waterbury, Conn. Malt beverages. Serial No. 337,981; July 4. Class 48.

Lawson Coffee Co. Inc., Sumter, S. C. Coffee and tea. Serial No. 337,854; July 4. Class 46.

Leitner, M., & Company, Chicago, Ill. Portable coolers for beverages. Serial No. 338,225; July 4. Class 31.

Leocopoulos, George D., Chicopee Falls, Mass. Preparation for treatment of toothaches. Serial No. 336,060; July 4. Class 6.

Levin & Harris Shirt Co. Inc., New York, N. Y. Shirts and pajamas. Serial No. 337,703; July 4. Class 39.

Long Island Star Publishing Company, Long Island City, N. Y. Newspaper. Serial No. 337,749; July 4. Class 38.

Long & Tatum, doing business as E. Z. Automatic Battery Filler Co., San Francisco, Calif. Automatic battery filler valve. Serial No. 333,971; July 4. Class 13.

Lonza Elektrizitätswerke und Chemische Fabriken Aktiengesellschaft, Gampel and Basel, Switzerland. Burners utilizing solid chemical fuels. Serial No. 332,375; July 4. Class 34.

Love-Me Ice Cream Company, doing business as Love-Me Ice Cream Stores, Inc., Milwaukee, Wis. Frozen confections. Serial No. 326,013; July 4. Class 46.

Lowe Brothers Company, The, Dayton, Ohio. Paints, varnishes, etc. Serial No. 337,856; July 4. Class 16.

Losenski, Joseph J., doing business as Elk's Bottling Works, Leavenworth, Kans. Ginger ale, lime, soda, etc. Serial No. 337,704; July 4. Class 45.

Luzzi, August F., Wichita Falls, Tex. Exercising machine. Serial No. 328,442; July 4. Class 22.

Lysaght Protected Steel Co., Ltd., Bristol, England. Steel roofing and siding, etc. Serial No. 333,295; July 4. Class 12.

M. V. C. Lab. (See Mountain Varnish & Color Works, Inc.)

Macy, R. H., & Co., Inc., New York, N. Y. Suits. Serial No. 337,638; July 4. Class 39.

Malone, Dr. Ira, doing business as Peri Risa Co., Sapulpa, Okla. Preparation used in the treatment of pyorrhea, etc. Serial No. 337,925; July 4. Class 6.

Marathon Razor Blade Co., Inc., Irvington, N. J. Safety razor blades. Serial No. 336,362; July 4. Class 23.

Maxwell House Products Company, Inc., New York, N. Y. Tea. Serial No. 337,654; July 4. Class 46.

Melahoures, John N., Newburgh, N. Y. Liquid herb and vegetable compound medicinal preparation. Serial No. 337,640; July 4. Class 6.

Melodine Products Corporation, Los Angeles, Calif. Pharmaceutical preparations. Serial No. 336,610; July 4. Class 6.

Meridian Ltd., doing business as El Solyo Ranch, Vernalis, Calif. Fruits, vegetables, etc. Serial No. 321,354; July 4. Class 46.

Meyenberg Laboratories, Inc., doing business as Calbest Milk Co., Salinas, Calif. Canned evaporated milk. Serial No. 337,044; July 4. Class 46.

Milady Products. (See New York Hair Co., Inc.)

Milton Paper Co., Inc., New York, N. Y. Artists' drawing boards and papers. Serial No. 333,807; July 4. Class 37.

Monica, Joseph D., Brooklyn, N. Y. Champagne. Serial No. 336,832; July 4. Class 47.

Monopole Vineyards Corporation, Rheims and New York, N. Y. Wines. Serial Nos. 338,327–9; July 4; Class 47.

Mountain Varnish & Color Works, Inc., doing business as M. V. C. Lab., Toledo, Ohio. Manicure preparations. Serial No. 336,046; July 4. Class 6.

Moyer & Zulick, Schuylkill Haven, Pa. Vest, bloomers, step-ins, etc. Serial No. 337,480; July 4. Class 39.

Musco, Nicolo, New York, N. Y. Olive oil. Serial No. 337,752; July 4. Class 46.

N. V. Betonfabriek De Meteoor, De Steeg, Community of Rheden, Netherlands. Concrete tiles, plates, etc. Serial No. 334,442; July 4. Class 12.

Nachman Spring-Filled Corporation, Chicago, Ill. Upholstery batts for furniture, etc. Serial No. 326,488; July 4. Class 1.

Nahon, James M., Madrid, Spain. Golf club bags, etc. Serial No. 336,539; July 4. Class 22.

Naugatuck Chemical Company, The, New York, N. Y. Chemicals. Serial No. 337,643; July 4. Class 6.

Nester, I. H., doing business as I. H. Nester & Co., Philadelphia, Pa. Buttermilk. Serial No. 337,584; July 4. Class 46.

Neumann, R., & Company, Hoboken, N. J. Leather. Serial No. 338,014; July 4. Class 1.

Newall S. A., & Sons, London, England. Cloths and stuffs of wool, etc. Serial No. 336,913; July 4. Class 42.

Newspaper Specialties, Inc., New York, N. Y. Piece goods of silk, cotton, and linen. Serial No. 334,405; July 4. Class 42.

Newton Paper Company, Holyoke, Mass. Pads of paper felt. Serial No. 337,166; July 4. Class 50.

New York Hair Co., Inc., doing business as Milady Products, New York, N. Y. Cosmetics. Serial No. 314,818; July 4. Class 6.

Nicholson File Company, Providence, R. I. Files and rasps. Serial No. 338,161; July 4. Class 23.

No-Per-Spiro Company. (See Davis, John P.)

Norfolk Paint & Varnish Company, Quincy, Mass. Paints and varnishes. Serial No. 337,617; July 4. Class 16.

Nu-Pak Corporation, New York, N. Y. Vegetables, fruits, etc. Serial No. 329,836; July 4. Class 46.

O'Brien Varnish Company, South Bend, Ind. Varnishes, paints, etc. Serial No. 337,540; July 4. Class 16.

Oelerich & Berry Company, doing business as Oelerich & Berry Co., Chicago, Ill. Syrup. Serial No. 330,272; July 4. Class 46.

Olympia Laboratory, The, New Orleans, La. Prophylactic rubber articles. Serial No. 336,914; July 4. Class 44.

Oneida Community Limited, Oneida, N. Y. Sterling silver flatware. Serial No. 337,089; July 4. Class 28.

Oxo, Limited, London, England. Coffee, chocolate, cocoa. Serial No. 336,994; July 4. Class 46.

Paddock & Fowler Company, Inc., New York, N. Y. Pimientos, etc. Serial No. 337,136; July 4. Class 46.

Pal-O-Pak Company, Hartland, Wis. Cases, cartons, etc. Serial No. 338,015; July 4. Class 2.

Parker, F. A., Inc., Marblehead, Mass. Shoes and moccasins, etc. Serial No. 336,368; July 4. Class 39.

Parker Brothers, Inc., Portland, Maine, and Salem, Mass. Card game. Serial No. 334,111; July 4. Class 22.

Parlin Industries, Inc., Tulsa, Okla. Towel vending machines. Serial No. 336,106; July 4. Class 23.

Penn Metal Company, Boston, Mass. Metal laths, corners, corner beads, etc. Serial No. 332,382; July 4. Class 12.

Peri Risa Co. (See Malone, Dr. Ira.)

Polychronopoulos, Stamatis, doing business as Aristocratic Co., New York, N. Y. Caviar. Serial No. 332,467; July 4. Class 46.

Polychronopoulos, Stamatis, doing business as Aristocratic Co., New York, N. Y. Caviar dressing or caviar salad. Serial No. 332,468; July 4. Class 46.

Port Washington Brewing Company, Port Washington, Wis. Malt beverages. Serial No. 338,109; July 4. Class 48.

Procter & Gamble Company, The, Cincinnati, Ohio. Cottonseed oil. Serial No. 336,453; July 4. Class 46.

Professional Golfers' Association of America, Chicago, Ill. Publications. Serial No. 308,035; July 4. Class 38.

Prybrands, Inc., Long Island City, N. Y. Razors and blades. Serial Nos. 337,887–8; July 4. Class 28.

Rainbow Rubber Company, East Butler, Pa. Bandages. Serial No. 336,727; July 4. Class 44.

Rentschler, John F., doing business as Trux-O Chemical Co., Kansas City, Mo. Washing and cleaning compound. Serial No. 337,621; July 4. Class 4.

Reviver Company, The. (See Calderazzi, Lorenzo.)

Ritz Drug Company, Elizabeth, N. J. Astringents, astringent cerates, bleach and beauty creams, etc. Serial No. 337,622; July 4. Class 6.

Robertson Bros. & Co Limited, London, England. Wines. Serial No. 338,258; July 4. Class 47.

Robertson Bros. & Co. Limited, London, England. Wines and spirits. Serial No. 338,259; July 4. Class 47.

Robertson Bros. & Co. Limited, London, England. Wines. Serial No. 338,260; July 4. Class 47.

Robinson, Ruth, doing business as Robinson Products, Ozone Park, Long Island, N. Y. Wax polish. Serial No. 334,162; July 4. Class 16.

Rogers, William B., doing business as The Floating Flame Burner Company, Baltimore, Md. Pulverised coal burners, furnaces, and parts thereof. Serial No. 338,199; July 4. Class 34.

Rosasco, Camillo A., doing business as Camillo Laboratories, Indianapolis, Ind. Insecticide and fungicide. Serial No. 337,236; July 4. Class 6.

Rose, Sheila, New York, N. Y. Prepared foods for birds, etc. Serial No. 336,836; July 4. Class 46.

Rosenthal, Sig., Co., Inc., New York, N. Y. Ladies' undergarments and nightgowns. Serial No. 334,114; July 4. Class 39.

Royster, F. S., Guano Co., Norfolk, Va. Fertilizer. Serial No. 338,162; July 4. Class 10.

Sachs Quality Furniture Inc., New York, N. Y. Textile rugs and carpets. Serial No. 336,964; July 4. Class 42.

San Antonio Drug Company. (See Heyer, George S., assignor.)

San Diego Club, The, San Diego, Calif. Magazine. Serial No. 333,467; July 4. Class 38.

Scovill Manufacturing Company, Waterbury, Conn. Hose couplings and menders. Serial No. 335,453; July 4. Class 13.

Seaway Brands Co. (See Springer, George T.)

Seedol Laboratories. (See Tuvin, J. H.)

Seto Manufacturing Company, Inc., New York, N. Y. Compound for setting closet bowls, tiles, etc. Serial No. 337,402; July 4. Class 12.

Shaw-Box Crane & Hoist Company, Inc., Muskegon, Mich. Cranes, hoists, etc. Serial No. 332,237; July 4. Class 23.

Shea, George V., doing business as George V. Shea & Co., Woodside, Long Island, N. Y. Alakloidal salts and other medicinal substances. Serial No. 337,050; July 4. Class 6.

Sheets-Rockford Silver Company, Rockford, Ill. Silver hollow ware. Serial No. 310,887; July 4. Class 28.

Sherwin-Williams Company, The, Cleveland, Ohio. Paints, varnishes, etc. Serial No. 338,115; July 4. Class 16.

Sherwood Distilling and Distributing Company, The, Baltimore, Md. Distilled liquors. Serial No. 338,202; June 4. Class 49.

Sherwood Distilling and Distributing Company, The, Baltimore, Md. Distilled liquors. Serial No. 338,205; July 4. Class 49.

Sinagnan, Frances, et Cie Incorporated, doing business as Bagatelle, New York, N. Y. Chocolate candies. Serial No. 336,406; July 4. Class 46.

Smith, J. Allen, & Co., Knoxville, Tenn. Flour. Serial No. 337,935; July 4. Class 46.

Société à Responsabilité Limitée Rodier, Paris, France. Piece goods. Serial No. 335,256; July 4. Class 42.

Southern Overall Manufacturing Company, Hickory, N. C. Overalls, work shirts, etc. Serial No. 337,546; July 4. Class 39.

Springer, George T., doing business as Seaway Brands Co., Minneapolis, Minn. Vegetables and fruits. Serial No. 334,539; July 4. Class 46.

Standard Motor Products, Inc., New York, N. Y. Parts for ignition systems. Serial No. 336,737; July 4. Class 21.

Stetson, John B., Company, Philadelphia, Pa. Hats, caps, etc. Serial No. 337,095; July 4. Class 39.

Stirn, L. & E., Inc., New York, N. Y. Silk, rayon, etc. Serial No. 337,816; July 4. Class 42.

Sunray Oil Corporation, The, New York, N. Y. Oils and greases. Serial No. 337,144; July 4. Class 15.

Surgident, Ltd., Los Angeles, Calif. Pharmaceutical preparations. Serial No. 334,940; July 4. Class 6.

Threads, Incorporated, Gastonia, N. C. Sewing thread. Serial No. 337,764; July 4. Class 43.

Trux-O Chemical Co. (See Rentschler, John F.)

Tulsite Chemical Products Co., Tulsa, Okla. Boiler cleaning compound, soaps, etc. Serial No. 321,551; July 4. Class 4.

Tuvin, J. H., doing business as Seedol Laboratories, New York, N. Y. Medicinal preparation. Serial No. 338,169; July 4. Class 6.

United States Products Corporation, San Jose, Calif. Canned fruits and vegetables. Serial No. 331,450; July 4. Class 46.

Utility Blade Corporation, Irvington, N. J. Safety razor blades. Serial No. 337,627; July 4. Class 23.

Utility Blade Corporation, Irvington, N. J. Safety razor blades. Serial No. 337,628; July 4. Class 23.

Vanity Fair Silk Mills, Reading, Pa. Hosiery. Serial No. 337,683; July 4. Class 39.

Vanity-Nite Company, Chicago, Ill. Brilliantine and nail polish. Serial No. 336,971; July 4. Class 6.

Veg-E-Trate Sales Company. (See Fincher, Thornton M.)

Victorias Milling Company, Inc., Manila, P. I. Sugar. Serial No. 331,713; July 4. Class 46.

Wadsworth Electric Mfg. Co., Inc., The, Covington, Ky. Show-case lighting assemblies and parts thereof. Serial No. 327,235; July 4. Class 21.

Walt, Justin F., New York, N. Y. Water filters and parts. Serial No. 337,813; July 4. Class 31.

Waterloo Mills Company, Waterloo, Iowa. Wheat flour. Serial No. 337,101; July 4. Class 46.

Wellman, S. K., Company, The, Cleveland, Ohio. Brake and transmission linings. Serial No. 322,663; July 4. Class 35.

Wells-Lamont-Smith Corporation, Minneapolis, Minn. Gloves. Serial No. 336,248; July 4. Class 39.

White Cliff Mineral Springs, St. Helena, and Oakland, Calif. Mineral water. Serial No. 312,781; July 4. Class 45.

Wigler, Albert I., Newark, N. J. Soap, shaving cream, etc. Serial No. 337,976; July 4. Class 4.

Wilkinson, Gaddis & Co., Newark, N. J. Coffee, tea, butter, etc. Serial No. 309,492; July 4. Class 46.

Williams & Humbert, London, England. Wines. Serial No. 338,266; July 4. Class 47.

Williams & Humbert, London, England. Sherry wines. Serial No. 338,270; July 4. Class 47.

Wilson-Jones Company, Chicago, Ill. Folder fasteners. Serial No. 335,149; July 4. Class 37.

Wurlitzer Grand Piano Company, doing business as All-American Accordion Company, De Kalb, Ill. Piano accordions. Serial No. 337,497; July 4. Class 36.

Zig-Zag Puzzles Company, Chicago, Ill. Jig saw puzzles, picture puzzles, etc. Serial No. 337,868; July 4. Class 22.

LIST OF REGISTRANTS OF TRADE-MARKS

Adhor Creamery Company, Los Angeles, Calif. Milk, cream, butter, etc. 304,344; July 4; Serial No. 333,050; published Apr. 18, 1933. Class 46.

Allbestos Corporation, Philadelphia, Pa. Brake linings. 304,368; July 4; Serial No. 335,226; published Apr. 18, 1933. Class 35.

Aron, J., & Company, Inc., New York, N. Y. Green coffee. 304,403; July 4; Serial No. 331,982; published Apr. 18, 1933. Class 46.

Atlas Supply Company, Wilmington, Del., and Newark, N. J. Cameras and sensitized films. 334,359; July 4; Serial No. 334,552; published Apr. 18, 1933. Class 26.

Baker Clothes, Inc., Philadelphia, Pa. Men's suits. 304,382; July 4; Serial No. 334,728; published Apr. 11, 1933. Class 39.

Bellmore Manufacturing Company, Gainesville, Ga. Coats, pants, and work shirts. 304,355; July 4; Serial No. 334,457; published Apr. 11, 1933. Class 39.

Ben-Burk, Incorporated, Boston, Mass. Nonalcoholic beverages and flavoring. 304,426; July 4. Class 45.

Bettoney, Harry, doing business as The Cundy-Bettoney Company, Boston, Mass. Clarinets, flutes, etc. 304,415; July 4. Class 36.

Bird Machine Company, South Walpole, Mass. Doctors for calenders, driers, etc. 304,436; July 4. Class 23.

Boston Grinding Company, The. (See Franzmann, Frederick W.)

Botany Worsted Mills, Passaic, N. J. Neckties. 304,380; July 4; Serial No. 334,789; published Apr. 11, 1933. Class 39.

Braden, A. C., Ltd., Pasadena, Calif. Salmon, sardines, etc. 304,434; July 4. Class 46.

Braden, A. C., Ltd., doing business as Anita Brown Preserving Co., Pasadena, Calif. Jelly, apricots, etc. 304,437; July 4. Class 46.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Hanes, P. H., Knitting Company, Winston-Salem, N. C. Wearing apparel. Serial No. 336,284; July 4. Class 39.

Hansard, James M., doing business as Glass Wonder Products Company, Lakeland, Fla. Glass and metal cleaning and polishing compound. Serial No. 337,697; July 4. Class 4.

Hartmann, Reina K. G., doing business as Knit-Tainer Company, Winnetka, Ill. Portfolios. Serial No. 337,468; July 4. Class 3.

Heddon's, James, Sons, Dowagiac, Mich. Fishing rods. Serial No. 338,005; July 4. Class 22.

Herlihy, R. M., Company, Weston, W. Va. Face lotion. Serial No. 337,297; July 4. Class 6.

Heyer, George S., Houston, assignor to San Antonio Drug Company, San Antonio, Tex. Skin powder. Serial No. 335,782; July 4. Class 6.

Hilton, G. C., doing business as Central Specialty Company, Hutchinson, Kans. Cement or glue. Serial No. 315,748; July 4. Class 5.

Houde Engineering Corporation, Buffalo, N. Y. Shock absorber fluid. Serial Nos. 338,049–50; July 4. Class 15.

Hudelson Distributing Co., Los Angeles, Calif. Canned oysters. Serial No. 336,648; July 4. Class 46.

Hultman & Powell Corporation, Dover, Del. Cellulose material. Serial No. 337,786; July 4. Class 1.

Isaac, I., & Son Corp., New York, N. Y. Neckties and scarfs. Serial No. 334,798; July 4. Class 39.

J. R. B. Industries, Inc., Manteno, Ill. Artificial fish baits. Serial No. 338,248; July 4. Class 22.

Johnson, Clarence R., Lumberville, Pa. Bird houses. Serial No. 337,747; July 4. Class 50.

Johnson Oil Refining Company, Chicago, Ill. Insecticide. Serial No. 330,478; July 4. Class 6.

Johnson, Thomas L., New York, N. Y. Hosiery. Serial No. 337,472; July 4. Class 39.

Juvenile Shoe Corporation of America, The, Aurora and St. Louis, Mo. Shoes and slippers. Serial No. 337,699; July 4. Class 39.

Keleher, A. H., Co. Inc., New York, N. Y. Radio receiving sets. Serial No. 337,637; July 4. Class 21.

King Features Syndicate, Inc., New York, N. Y. Column or section of a newspaper. Serial No. 337,789; July 4. Class 38.

King Laboratories, Inc., Syracuse, N. Y. Getters used in the evacuation of vacuum tubes. Serial No. 337,431; July 4. Class 6.

Kingston, Austin G., San Antonio, Tex. Wearing apparel. Serial No. 337,701; July 4. Class 39.

Knit-Tainer Company. (See Hartmann, Reina K. G.)

Koch Beverage Co., Inc., The, Wapakoneta, Ohio. Malt beverages. Serial No. 338,249; July 4. Class 48.

Kresge Department Store Corporation, Newark, N. J. Tableware of china, crockery, etc. Serial No. 334,492; July 4. Class 30.

L. & C. Manufacturing Co., New York, N. Y. Gowns, pajamas, etc. Serial No. 337,280; July 4. Class 39.

Lambert Pharmacal Company, Wilmington, Del. Atomizers. Serial No. 337,339; July 4. Class 44.

Landau, Max, doing business as Max Landau & Co., New York, N. Y. Cheese. Serial No. 335,125; July 4. Class 46.

Largay Brewing Co. Incorporated, Waterbury, Conn. Malt beverages. Serial No. 337,981; July 4. Class 48.

Lawson Coffee Co. Inc., Sumter, S. C. Coffee and tea. Serial No. 337,854; July 4. Class 46.

Leitner, M., & Company, Chicago, Ill. Portable coolers for beverages. Serial No. 338,225; July 4. Class 31.

Leocopoulos, George D., Chicopee Falls, Mass. Preparation for treatment of toothaches. Serial No. 336,000; July 4. Class 6.

Levin & Harris Shirt Co. Inc., New York, N. Y. Shirts and pajamas. Serial No. 337,703; July 4. Class 39.

Long Island Star Publishing Company, Long Island City, N. Y. Newspaper. Serial No. 337,749; July 4. Class 38.

Long & Tatum, doing business as E. Z. Automatic Battery Filler Co., San Francisco, Calif. Automatic battery filler valve. Serial No. 333,971; July 4. Class 13.

Lonza Elektrizitätswerke und Chemische Fabriken Aktiengesellschaft, Gampel and Basel, Switzerland. Burners utilizing solid chemical fuels. Serial No. 332,375; July 4. Class 34.

Love-Me Ice Cream Company, doing business as Love-Me Ice Cream Stores, Inc., Milwaukee, Wis. Frozen confections. Serial No. 328,013; July 4. Class 46.

Lowe Brothers Company, The, Dayton, Ohio. Paints, varnishes, etc. Serial No. 337,856; July 4. Class 16.

Losenski, Joseph J., doing business as Elk's Bottling Works, Leavenworth, Kans. Ginger ale, lime, soda, etc. Serial No. 337,704; July 4. Class 45.

Luxal, August F., Wichita Falls, Tex. Exercising machine. Serial No. 328,442; July 4. Class 22.

Lysaght Protected Steel Co., Ltd., Bristol, England. Steel roofing and siding, etc. Serial No. 333,295; July 4. Class 12.

M. V. C. Lab. (See Mountain Varnish & Color Works, Inc.)

Macy, R. H., & Co., Inc., New York, N. Y. Suits. Serial No. 337,638; July 4. Class 39.

Malone, Dr. Ira, doing business as Peri Riza Co., Sapulpa, Okla. Preparation used in the treatment of pyorrhea, etc. Serial No. 337,925; July 4. Class 6.

Marathon Razor Blade Co., Inc., Irvington, N. J. Safety razor blades. Serial No. 336,362; July 4. Class 23.

Maxwell House Products Company, Inc., New York, N. Y. Tea. Serial No. 337,654; July 4. Class 46.

Melahoures, John N., Newburgh, N. Y. Liquid herb and vegetable compound medicinal preparation. Serial No. 337,640; July 4. Class 6.

Melodine Products Corporation, Los Angeles, Calif. Pharmaceutical preparations. Serial No. 336,610; July 4. Class 6.

Meridian Ltd., doing business as El Solyo Ranch, Vernalis, Calif. Fruits, vegetables, etc. Serial No. 321,354; July 4. Class 46.

Meyenberg Laboratories, Inc., doing business as Calbest Milk Co., Salinas, Calif. Canned evaporated milk. Serial No. 337,044; July 4. Class 46.

Milady Products. (See New York Hair Co., Inc.)

Milton Paper Co., Inc., New York, N. Y. Artists' drawing boards and papers. Serial No. 333,807; July 4. Class 37.

Monica, Joseph D., Brooklyn, N. Y. Champagne. Serial No. 336,832; July 4. Class 47.

Monopole Vineyards Corporation, Rheims and New York, N. Y. Wines. Serial Nos. 338,327–9; July 4; Class 47.

Mountain Varnish & Color Works, Inc., doing business as M. V. C. Lab., Toledo, Ohio. Manicure preparations. Serial No. 336,046; July 4. Class 6.

Moyer & Zulick, Schuylkill Haven, Pa. Vest, bloomers, step-ins, etc. Serial No. 337,480; July 4. Class 39.

Musco, Nicolo, New York, N. Y. Olive oil. Serial No. 337,752; July 4. Class 46.

N. V. Betonfabriek De Meteoor, De Steeg, Community of Rheden, Netherlands. Concrete tiles, plates, etc. Serial No. 334,442; July 4. Class 12.

Nachman Spring-Filled Corporation, Chicago, Ill. Upholstery batts for furniture, etc. Serial No. 326,488; July 4. Class 1.

Nahon, James M., Madrid, Spain. Golf club bags, etc. Serial No. 336,539; July 4. Class 22.

Naugatuck Chemical Company, The, New York, N. Y. Chemicals. Serial No. 337,643; July 4. Class 6.

Nester, I. H., doing business as I. H. Nester & Co., Philadelphia, Pa. Buttermilk. Serial No. 337,584; July 4. Class 46.

Neumann, R., & Company, Hoboken, N. J. Leather. Serial No. 338,014; July 4. Class 1.

Newall S. A., & Sons, London, England. Cloths and stuffs of wool, etc. Serial No. 336,913; July 4. Class 42.

Newspaper Specialties, Inc., New York, N. Y. Piece goods of silk, cotton, and linen. Serial No. 334,405; July 4. Class 42.

Newton Paper Company, Holyoke, Mass. Pads of paper felt. Serial No. 337,166; July 4. Class 50.

New York Hair Co., Inc., doing business as Milady Products, New York, N. Y. Cosmetics. Serial No. 314,818; July 4. Class 6.

Nicholson File Company, Providence, R. I. Files and rasps. Serial No. 338,161; July 4. Class 23.

No-Per-Spiro Company. (See Davis, John P.)

Norfolk Paint & Varnish Company, Quincy, Mass. Paints and varnishes. Serial No. 337,617; July 4. Class 16.

Nu-Pak Corporation, New York, N. Y. Vegetables, fruits, etc. Serial No. 329,836; July 4. Class 46.

O'Brien Varnish Company, South Bend, Ind. Varnishes, paints, etc. Serial No. 337,540; July 4. Class 16.

Oelerich & Berry Company, doing business as Oelerich & Berry Co., Chicago, Ill. Syrup. Serial No. 330,272; July 4. Class 46.

Olympia Laboratory, The, New Orleans, La. Prophylactic rubber articles. Serial No. 336,914; July 4. Class 44.

Oneida Community Limited, Oneida, N. Y. Sterling silver flatware. Serial No. 337,089; July 4. Class 28.

Oxo, Limited, London, England. Coffee, chocolate, cocoa. Serial No. 336,994; July 4. Class 46.

Paddock & Fowler Company, Inc., New York, N. Y. Pimientos, etc. Serial No. 337,136; July 4. Class 46.

Pal-O-Pak Company, Hartland, Wis. Cases, cartons, etc. Serial No. 338,010; July 4. Class 2.

Parker, F. A., Inc., Marblehead, Mass. Shoes and mocassins, etc. Serial No. 336,368; July 4. Class 39.

Parker Brothers, Inc., Portland, Maine, and Salem, Mass. Card game. Serial No. 334,111; July 4. Class 22.

Parlin Industries, Inc., Tulsa, Okla. Towel vending machines. Serial No. 338,106; July 4. Class 23.

Penn Metal Company, Boston, Mass. Metal laths, corners, corner beads, etc. Serial No. 332,382; July 4. Class 12.

Peri Riza Co. (See Malone, Dr. Ira.)

Polychronopoulos, Stamatis, doing business as Aristocratic Co., New York, N. Y. Caviar. Serial No. 332,467; July 4. Class 46.

Polychronopoulos, Stamatis, doing business as Aristocratic Co., New York, N. Y. Caviar dressing or caviar salad. Serial No. 332,468; July 4. Class 46.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Port Washington Brewing Company, Port Washington, Wis. Malt beverages. Serial No. 338,109; July 4. Class 48.

Procter & Gamble Company, The, Cincinnati, Ohio. Cottonseed oil. Serial No. 336,453; July 4. Class 46.

Professional Golfers' Association of America, Chicago, Ill. Publications. Serial No. 308,035; July 4. Class 38.

Prybrands, Inc., Long Island City, N. Y. Razors and blades. Serial Nos. 337,887–8; July 4. Class 23.

Rainbow Rubber Company, East Butler, Pa. Bandages. Serial No. 336,727; July 4. Class 44.

Rentschler, John F., doing business as Trux-O Chemical Co., Kansas City, Mo. Washing and cleaning compound. Serial No. 337,621; July 4. Class 4.

Reviver Company, The. (See Calderazzi, Lorenzo.)

Ritz Drug Company, Elizabeth, N. J. Astringents, astringent cerates, bleach and beauty creams, etc. Serial No. 337,622; July 4. Class 6.

Robertson Bros. & Co Limited, London, England. Wines. Serial No. 338,258; July 4. Class 47.

Robertson Bros. & Co. Limited, London, England. Wines and spirits. Serial No. 338,259; July 4. Class 47.

Robertson Bros. & Co. Limited, London, England. Wines. Serial No. 338,260; July 4. Class 47.

Robinson, Ruth, doing business as Robinson Products, Ozone Park, Long Island, N. Y. Wax polish. Serial No. 334,162; July 4. Class 16.

Rogers, William B., doing business as The Floating Flame Burner Company, Baltimore, Md. Pulverised coal burners, furnaces, and parts thereof. Serial No. 338,199; July 4. Class 34.

Rosasco, Camillo A., doing business as Camillo Laboratories, Indianapolis, Ind. Insecticide and fungicide. Serial No. 337,286; July 4. Class 6.

Rose, Sheila, New York, N. Y. Prepared foods for birds, etc. Serial No. 336,836; July 4. Class 46.

Rosenthal, Sig., Co., Inc., New York, N. Y. Ladies' undergarments and nightgowns. Serial No. 334,114; July 4. Class 39.

Royster, F. S., Guano Co., Norfolk, Va. Fertilizer. Serial No. 338,162; July 4. Class 10.

Sachs Quality Furniture Inc., New York, N. Y. Textile rugs and carpets. Serial No. 336,964; July 4. Class 42.

San Antonio Drug Company. (See Heyer, George S., assignor.)

San Diego Club, The, San Diego, Calif. Magazine. Serial No. 333,467; July 4. Class 38.

Scovill Manufacturing Company, Waterbury, Conn. Hose couplings and menders. Serial No. 335,453; July 4. Class 13.

Seaway Brands Co. (See Springer, George T.)

Seedol Laboratories. (See Tuvin, J. H.)

Seto Manufacturing Company, Inc., New York, N. Y. Compound for setting closet bowls, tiles, etc. Serial No. 337,402; July 4. Class 12.

Shaw-Box Crane & Hoist Company, Inc., Muskegon, Mich. Cranes, hoists, etc. Serial No. 332,287; July 4. Class 23.

Shea, George V., doing business as George V. Shea & Co., Woodside, Long Island, N. Y. Alakloidal salts and other medicinal substances. Serial No. 337,050; July 4. Class 6.

Sheets-Rockford Silver Company, Rockford, Ill. Silver hollow ware. Serial No. 310,887; July 4. Class 28.

Sherwin-Williams Company, The, Cleveland, Ohio. Paints, varnishes, etc. Serial No. 338,115; July 4. Class 16.

Sherwood Distilling and Distributing Company, The, Baltimore, Md. Distilled liquors. Serial No. 338,202; June 4. Class 49.

Sherwood Distilling and Distributing Company, The, Baltimore, Md. Distilled liquors. Serial No. 338,205; July 4. Class 49.

Sinagnan, Frances, et Cie Incorporated, doing business as Bagatelle, New York, N. Y. Chocolate candies. Serial No. 336,406; July 4. Class 46.

Smith, J. Allen, & Co., Knoxville, Tenn. Flour. Serial No. 337,935; July 4. Class 46.

Société à Responsabilité Limitée Rodier, Paris, France. Piece goods. Serial No. 335,256; July 4. Class 42.

Southern Overall Manufacturing Company, Hickory, N. C. Overalls, work shirts, etc. Serial No. 337,546; July 4. Class 39.

Springer, George T., doing business as Seaway Brands Co., Minneapolis, Minn. Vegetables and fruits. Serial No. 334,539; July 4. Class 46.

Standard Motor Products, Inc., New York, N. Y. Parts for ignition systems. Serial No. 336,737; July 4. Class 21.

Stetson, John B., Company, Philadelphia, Pa. Hats, caps, etc. Serial No. 337,095; July 4. Class 39.

Stirn, L. & E., Inc., New York, N. Y. Silk, rayon, etc. Serial No. 337,316; July 4. Class 42.

Sunray Oil Corporation, The, New York, N. Y. Oils and greases. Serial No. 337,144; July 4. Class 15.

Surgident, Ltd., Los Angeles, Calif. Pharmaceutical preparations. Serial No. 334,940; July 4. Class 6.

Threads, Incorporated, Gastonia, N. C. Sewing thread. Serial No. 337,764; July 4. Class 43.

Trux-O Chemical Co. (See Rentschler, John F.)

Tulsite Chemical Products Co., Tulsa, Okla. Boiler cleaning compound, soaps, etc. Serial No. 321,551; July 4. Class 4.

Tuvin, J. H., doing business as Seedol Laboratories, New York, N. Y. Medicinal preparation. Serial No. 338,169; July 4. Class 6.

United States Products Corporation, San Jose, Calif. Canned fruits and vegetables. Serial No. 331,450; July 4. Class 46.

Utility Blade Corporation, Irvington, N. J. Safety razor blades. Serial No. 337,627; July 4. Class 23.

Utility Blade Corporation, Irvington, N. J. Safety razor blades. Serial No. 337,628; July 4. Class 23.

Vanity Fair Silk Mills, Reading, Pa. Hosiery. Serial No. 337,683; July 4. Class 39.

Vanity-Nite Company, Chicago, Ill. Brilliantine and nail polish. Serial No. 336,971; July 4. Class 6.

Veg-E-Trate Sales Company. (See Fincher, Thornton M.)

Victorias Milling Company, Inc., Manila, P. I. Sugar. Serial No. 331,713; July 4. Class 46.

Wadsworth Electric Mfg. Co., Inc., The, Covington, Ky. Show-case lighting assemblies and parts thereof. Serial No. 327,235; July 4. Class 21.

Walt, Justin F., New York, N. Y. Water filters and parts. Serial No. 337,813; July 4. Class 31.

Waterloo Mills Company, Waterloo, Iowa. Wheat flour. Serial No. 337,101; July 4. Class 46.

Wellman, S. K., Company, The, Cleveland, Ohio. Brake and transmission linings. Serial No. 322,663; July 4. Class 35.

Wells-Lamont-Smith Corporation, Minneapolis, Minn. Gloves. Serial No. 336,248; July 4. Class 39.

White Cliff Mineral Springs, St. Helena, and Oakland, Calif. Mineral water. Serial No. 312,781; July 4. Class 45.

Wigler, Albert I., Newark, N. J. Soap, shaving cream, etc. Serial No. 337,976; July 4. Class 4.

Wilkinson, Gaddis & Co., Newark, N. J. Coffee, tea, butter, etc. Serial No. 309,492; July 4. Class 46.

Williams & Humbert, London, England. Wines. Serial No. 338,266; July 4. Class 47.

Williams & Humbert, London, England. Sherry wines. Serial No. 338,270; July 4. Class 47.

Wilson-Jones Company, Chicago, Ill. Folder fasteners. Serial No. 335,149; July 4. Class 37.

Wurlitzer Grand Piano Company, doing business as All-American Accordion Company, De Kalb, Ill. Piano accordions. Serial No. 337,497; July 4. Class 36.

Zig-Zag Puzzles Company, Chicago, Ill. Jig saw puzzles, picture puzzles, etc. Serial No. 337,868; July 4. Class 22.

LIST OF REGISTRANTS OF TRADE-MARKS

Adhor Creamery Company, Los Angeles, Calif. Milk, cream, butter, etc. 304,344; July 4; Serial No. 333,050; published Apr. 18, 1933. Class 46.

Allbestos Corporation, Philadelphia, Pa. Brake linings. 304,368; July 4; Serial No. 335,226; published Apr. 18, 1933. Class 35.

Aron, J., & Company, Inc., New York, N. Y. Green coffee. 304,403; July 4; Serial No. 331,982; published Apr. 18, 1933. Class 46.

Atlas Supply Company, Wilmington, Del., and Newark, N. J. Cameras and sensitised films. 334,359; July 4; Serial No. 334,552; published Apr. 18, 1933. Class 26.

Baker Clothes, Inc., Philadelphia, Pa. Men's suits. 304,382; July 4; Serial No. 334,728; published Apr. 11, 1933. Class 39.

Bellmore Manufacturing Company, Gainesville, Ga. Coats, pants, and work shirts. 304,355; July 4; Serial No. 334,457; published Apr. 11, 1933. Class 39.

Ben-Burk, Incorporated, Boston, Mass. Nonalcoholic beverages and flavoring. 304,426; July 4. Class 45.

Bettoney, Harry, doing business as The Cuddy-Bettoney Company, Boston, Mass. Clarinets, flutes, etc. 304,415; July 4. Class 36.

Bird Machine Company, South Walpole, Mass. Doctors for calenders, driers, etc. 304,436; July 4. Class 23.

Boston Grinding Company, The. (See Franzmann, Frederick W.)

Botany Worsted Mills, Passaic, N. J. Neckties. 304,380; July 4; Serial No. 334,789; published Apr. 11, 1933. Class 39.

Braden, A. C., Ltd., Pasadena, Calif. Salmon, sardines, etc. 304,434; July 4. Class 46.

Braden, A. C., Ltd., doing business as Anita Brown Preserving Co., Pasadena, Calif. Jelly, apricots, etc. 304,437; July 4. Class 46.

Brake Linings Limited, Buxton, England. Brake linings. 304,349; July 4; Serial No. 333,847; published Apr. 18, 1933. Class 35.
Breger & Weiner, Inc., New York, N. Y. Blouses and dresses. 304,379; July 4; Serial No. 334,860; published Apr. 11, 1933. Class 39.
Brock, Kurian & Company, Stamford, Conn. Razor blades. 304,357; July 4; Serial No. 334,484; published Apr. 18, 1933. Class 23.
Brown, Anita, Preserving Co. (See Braden, A. C., Ltd.)
Brown, L. L., Paper Company, Adams, Mass. Writing paper. 304,425; July 4. Class 37.
Bryn-Halden & Nitedals Tændstikfabrik A/S. (See Nitedals Tændstikfabrik, assignor.)
California Fig Syrup Co., San Francisco, Calif., assignor, by mesne assignments, to Sterling Products (Incorporated), Wheeling, W. Va. Purgative syrup. 41,338–9; renewed Oct. 20, 1933.
Carole, Inc., Chicago, Ill. Coats. 304,405; July 4; Serial No. 332,643; published Apr. 18, 1933. Class 39.
Carter, J. F., Company, Portland, Me., and Beverly, Mass., assignor, by mesne assignments, to A. J. Tower Company, Boston, Mass. Oiled clothing. 94,057–9; renewed Nov. 4, 1933. Class 39.
Celanese Corporation of America, New York, N. Y. Underwear. 304,365; July 4; Serial No. 335,349; published Apr. 18, 1933. Class 39.
Celanese Corporation of America, New York, N. Y. Underwear. 304,370–1; July 4; Serial Nos. 335,188–9; published Apr. 11, 1933. Class 39.
Chic Manufacturing Company, Peoria, Ill. Dresses, pajamas, uniforms, etc. 304,352; July 4; Serial No. 333,965; published Apr. 4, 1933. Class 39.
Chin Lee Co., Inc., New York, N. Y. Chow mein, chop sooy. 304,418; July 4. Class 46.
Chin Lee Co., Inc., New York, N. Y. Chow mein, chop sooy, etc. 304,419; July 4. Class 46.
Collin Street Bakery, Corsicana, Tex. Fruit-cake. 93,826; renewed Oct. 21, 1933.
Cowles Detergent Co., The. (See Electric Smelting and Aluminum Company, The, assignor.)
Cundy-Bettoney Company. (See Bettoney, Harry.)
Diebold Safe & Lock Co., Canton, Ohio. Safes and parts. 304,414; July 4. Class 25.
Dobrein, Mose, doing business as M. Dobrein Company, Boston, Mass. Shoes. 304,432; July 4. Class 39.
Dolgeville Slipper Company, Inc., Dolgeville, N. Y. Shoes and slippers. 304,435; July 4. Class 39.
Eiseman, Alfred S., New York, N. Y. Piece goods of cotton, silk, etc. 304,439; July 4. Class 42.
Electric Smelting and Aluminum Company, The, Lockport, N. Y., assignor to The Cowles Detergent Co., Cleveland, Ohio. Chemical compound used as a detergent. 92,659; renewed July 22, 1933.
Enterprise Manufacturing Company, The, Akron, Ohio. Artificial bait. 304,422; July 4. Class 22.
Enterprise Manufacturing Company, The, Akron, Ohio. Bait. 304,423; July 4. Class 22.
Ericsson Safety Razor Co. Inc., Brooklyn, N. Y. Safety razors, blades, etc. 304,433; July 4. Class 23.
Estey Manufacturing Company, Owosso, Mich. Furniture. 40,229; renewed Apr. 28, 1933.
Felt & Tarrant Manufacturing Company, Chicago, Ill. Combined listing and adding machines. 40,417; renewed May 19, 1933.
Folger, J. A., & Company, Kansas City, Mo. Coffee. 92,545–7; renewed July 15, 1933.
Franzmann, Frederick W., doing business as The Boston Grinding Company, Cuyahoga Falls, Ohio. Knives, shears, edge tools. 304,402; July 4; Serial No. 332,393; published Apr. 18, 1933. Class 23.
Friedman-Shelby. (See International Shoe Co.)
Gardiner-Warring Company, Inc., Florence, Ala. Sweaters, sweat shirts, and underwear. 304,343; July 4; Serial No. 333,120; published Apr. 11, 1933. Class 39.
Gardiner-Warring Company, Inc., Florence, Ala. Sweaters and sweat shirts. 304,346; July 4; Serial No. 333,121; published Apr. 11, 1933. Class 39.
Garfinkel & Ritter, New York, N. Y. Slips. 304,378; July 4; Serial No. 334,832; published Apr. 4, 1933. Class 39.
Gemloid Corporation, Ney York, N. Y. Enameled sheets. 304,430; July 4. Class 50.
Gimbel Brothers, Inc., New York, N. Y. Clothing and furnishings. 304,409; July 4. Class 39.
Glaser, Isaac, doing business as H. Glaser & Son, Boston, Mass. Hosiery, underwear, shirts, etc. 304,361; July 4; Serial No. 334,602; published Apr. 4, 1933. Class 39.
Gorman-Nathan Co. Inc., New York, N. Y. Suits, overcoats, and topcoats. 304,398; July 4; Serial No. 330,744; published Apr. 4, 1933. Class 39.
Greeno, C. L., Co., Los Angeles, Calif. Springs and seat spring constructions. 304,377; July 4; Serial No. 334,897; published Apr. 18, 1933. Class 32.
Grossman, Isidore, doing business as Grossman Clothing Co., New York, N. Y. Suits, overcoats, trousers, etc. 304,362; July 4; Serial No. 334,559; published Apr. 4, 1933. Class 39.
Habirshaw Cable and Wire Corporation, New York, N. Y. Electric cables. 304,429; July 4. Class 21.
Hall, Hartwell & Co. Inc., Troy, N. Y. Shirts, collars, and underwear. 304,347; July 4; Serial No. 333,476; published Apr. 18, 1933. Class 39.
Hanes Hosiery Mills Co., Winston-Salem, N. C. Hosiery. 304,424; July 4. Class 39.
Hartmann Trunk Company, Racine, Wis. Suitcases, hat boxes, etc. 304,475; July 4; Serial No. 335,061; published Apr. 18, 1933. Class 3.
Healy, Raymond, New York, N. Y. Court marking tapes and tennis net covers. 304,427; July 4. Class 22.
Hill, H. C., Mfg. Co., Los Angeles, Calif. Lingerie shoulder-strap holders. 304,428; July 4. Class 40.
Hirshfield, Frank, Mount Vernon, N. Y. Women's hosiery. 304,383; July 4; Serial No. 334,708; published Apr. 11, 1933. Class 39.
International Shoe Co., doing business as Friedman-Shelby, St. Louis, Mo. Boots and shoes. 304,438; July 4. Class 39.
Isenburger, Herbert R., New York, N. Y. Chemical preparation. 304,404; July 4; Serial No. 332,846; published Apr. 18, 1933. Class 1.
Jenkins Bros., New York, N. Y. Rubber and composition washers, gaskets, and packings. 304,366–7; July 4; Serial Nos. 335,321–2; published Apr. 18, 1933. Class 35.
Jönköpinga och Vulcans Tändsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 91,669; renewed May 20, 1933.
Jung Brewing Company, Milwaukee, Wis. Lager-beer. 92,679; renewed July 22, 1933.
Keith, Geo. E., Company, Brockton, Mass. Shoes. 304,431; July 4. Class 39.
Kimball, Alden, New York, N. Y. Razors and razor blades. 304,369; July 4; Serial No. 335,203; published Apr. 18, 1933. Class 23.
Koppers Coal Company, The, Pittsburgh, Pa. Coal. 304,394; July 4; Serial No. 328,434; published Apr. 18, 1933. Class 1.
Lalla, John F., Company, Chicago, Ill. Foods. 94,007; renewed Oct. 28, 1933.
Lich, Robert, Sutton, Nebr., to Robert Lich, Fresno, Calif. Dentrifice. 94,245; renewed Nov. 18, 1833.
Macleay, Duff & Co., Glasgow, Scotland. Whisky. 304,411; July 4. Class 49.
Manhattan Rubber Mfg. Co., The, assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Rubber pipe-coupling rings, piston-packing, etc. 94,099; renewed Nov. 4. 1933.
Manz, Henry A., New York, N. Y. Revolving cabinets. 304,354; July 4; Serial No. 334,400; published Apr. 18, 1933. Class 32.
Marathon Razor Blade Co., Inc., Irvington, N. J. Safety razor blades. 304,360; July 4; Serial No. 334,493; published Apr. 18, 1933. Class 23.
Marathon Razor Blade Co., Inc., Irvington, N. J. Safety Razor blades. 304,372; July 4; Serial No. 335,126; published Apr. 18, 1933. Class 23.
McWane Cast Iron Pipe Company, Birmingham, Ala. Pipe and fittings. 304,421; July 4. Class 13.
Morris-Collier Corporation, The, Wilmington, Del., and Monett, Mo. Mechanical razor blade sharpener. 304,390; July 4; Serial No. 325,007; published Apr. 18, 1933. Class 23.
Nagel, Morris, & Co. Inc. of Manhattan, New York, N. Y. Coats. 304,351; July 4; Serial No. 334,287; published Apr. 18, 1933. Class 39.
Naugatuck Chemical Company, The, New York, N. Y. Rubber adhesive. 304,395; July 4; Serial No. 327,884; published Apr. 18, 1933. Class 5.
Nitedals Tændstikfabrik, Gronvold, near Christiana, Norway, assignor to Bryn-Halden & Nitedals Tændstikfabrik A/S, Bryn, near Oslo, Norway. Matches. 91,987; renewed June 10, 1933.
Nitedals Tændstikfabrik, Gronvold, near Christiana, Norway, assignor to Bryn-Halden & Nitedals Tændstikfabrik A/S, Bryn, near Oslo, Norway. Matches. 91,992; renewed June 10, 1933.
Nitedals Tændstikfabrik, Gronvold, near Christiana, Norway, assignor to Bryn-Halden & Nitedals Tændstikfabrik A/S, Bryn, near Oslo, Norway. Matches. 92,906; renewed Aug. 5, 1933.
Pacific Mutual Door Company, Tacoma, Wash. Doors, sash, and moldings. 92,823; renewed July 29, 1933.
Peerless Sport Apparel Co. Inc., New York, N. Y. Sweaters and dresses. 304,348; July 4; Serial No. 333,450; published Apr. 4, 1933. Class 39.
Phillips-Hendon Co., assignor to Phillips-Lester Manufacturing Co., Inc., Birmingham, Ala. Clothing. 92,258; renewed June 24, 1933.
Posner, Abraham, assignor to Dr. A. Posner Shoes, Inc., New York, N. Y. Shoes. 91,690; renewed May 20, 1933.
Prichard & Constance (Wholesale) Ltd., London, England, assignor to Prichard & Constance, Inc., New York, N. Y. Chemicals and pharmaceutical preparations. 92,123; renewed June 17, 1933.
Quaker Hosiery Company, Inc., Philadelphia, Pa. Hosiery. 304,399; July 4; Serial No. 329,961; published Jan. 3, 1933. Class 39.
Raybestos-Manhattan, Inc. (See Manhattan Rubber Mfg. Co., The, assignor.)
Red Band Company, Inc., Johnson City, Tenn. Flour. 304,342; July 4; Serial No. 833,014; published Apr. 18, 1933. Class 46.
Reese Chemical Company, assignor to The Reese Chemical Company, Cleveland, Ohio. Remedy for genito-urinary diseases. 93,379; renewed Sept. 9, 1933.

Sachs, Morris B., Chicago, Ill. Overcoats, suits, dresses, etc. 304,358; July 4; Serial No. 334,482; published Apr. 4, 1933. Class 39.
Scull, William S., Company, Camden, N. J. Coffee. 94,207; renewed Nov. 11, 1933.
Sherwood Distilling and Distributing Company, The, Baltimore, Md. Whiskey. 304,412; July 4. Class 49.
Siegel Brothers, Inc., New York, N. Y. Coats. 304,373; July 4; Serial No. 335,075; published Apr. 11, 1933. Class 39.
Silk, Fred J., doing business as Silk Packing Company, Los Angeles, Calif. Spanish style rice. 304,393; July 4; Serial No. 326,236; published Dec. 6, 1932. Class 46.
Société Anonyme Lucile Paray, Paris, France. Garments. 304,417; July 4. Class 39.
Stearns' Electric Paste Company, Inc., Chicago, Ill. Poison. 304,350; July 4; Serial No. 333,486; published Mar. 28, 1933. Class 6.
Sterling Products (Incorporated). (See California Fig Syrup Co., assignor.)
Stern-Siegman Prins Company, Kansas City, Mo. Coats. 304,386; July 4; Serial No. 324,195; published Oct. 4, 1932. Class 39.
Stewart Hartshorn Company, New York, N. Y. Window shade rollers. 304,376; July 4; Serial No. 334,988; published Apr. 18, 1933. Class 32.
Stuhmer, Geo. F., & Company, Brooklyn, N. Y. Bread. 304,400; July 4; Serial No. 330,973; published Mar. 28, 1933. Class 46.
Style-Craft Lingerie, Inc., New York, N. Y. Panties, dansettes, chemises, etc. 304,353; July 6; Serial No. 334,449; published Apr. 4, 1933. Class 39.
Tennessee Eastman Corporation, Kingsport, Tenn. Molding composition. 304,385; July 4; Serial No. 334,622; published Apr. 18, 1933. Class 1.
Thayer McNeil Company, Boston, Mass. Boots and shoes. 304,416; July 4. Class 39.
Tower, A. J., Company. (See Carter, J. F., Company, assignor.)
United Distillers Limited, Vancouver, British Columbia, Canada. Whiskey and gin. 304,408; July 4. Class 49.
United Distillers Limited, Vancouver, British Columbia, Canada. Whiskey and gin. 304,410; July 4. Class 49.
U-No-Jaunty Dress, Inc., New York, N. Y. Dresses, pajamas, vests, etc. 304,381; July 4; Serial No. 334,779; published Apr. 4, 1933. Class 39.
Utility Mfg. Co. Inc., Baltimore, Md. Ice picks, kitchen forks, spatulas, etc. 304,401; July 4; Serial No. 330,940; published Apr. 18, 1933. Class 23.
Van Kannel Revolving Door Company, New York, N. Y. Revolving doors. 94,133; renewed Nov. 4, 1933.
Waldes & Co., Prague-Wrschowitz, Austria-Hungary, assignor, by mesne assignments, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y.. Garment-fasteners known as snap-buttons. 91,725; renewed May 20, 1933.
Waldes & Co., Prague-Wrschowitz, Austria-Hungary, assignor, by mesne assignments, to Waldes-Koh-I-Noor, Inc., Long Island City, N. Y. Snap-buttons used as garment-fasteners. 91,823; renewed May 27, 1933.
Waldes & Co., Prague-Wrschowitz, Austria-Hungary, assignor, by mesne assignments, to Waldes-Koh-I-Noor, Inc., Long Island City, N. Y. Garment-fasteners known as snap-buttons. 91,826; renewed May 27, 1933.
Webb, A. M., & Co. Inc., New York, N. Y. Underwear, hosiery, and bathing suits. 304,406; July 4; Serial No. 332,937; published Apr. 11, 1933. Class 39.
Webb, A. M., & Co. Inc., New York, N. Y.. Underwear shorts. 304,407; July 4; Serial No. 332,936; published Apr. 11, 1933. Class 39.
Western Auto Supply Agency of Los Angeles, Los Angeles, Calif. Automobile tires. 304,397; July 4; Serial No. 329,412; published Apr. 18, 1933. Class 35.
Wile, M., & Company, Inc., Buffalo, N. Y. Suits and overcoats. 304,345; July 4; Serial No. 333,134; published Feb. 21, 1933. Class 39.
Williams, J. B., Company, The, Glastonbury, Conn. Soap. 304,413; July 4. Class 4.
Wilson Brothers, Chicago, Ill. Shirts, pajamas, men's underwear, hosiery, and neckties. 304,387; July 4; Serial No. 315,513; published Apr. 18, 1933. Class 39.
Wilson Brothers, Chicago, Ill. Men's dress shirts. 304,396; July 4; Serial No. 329,543; published Apr. 18, 1933. Class 39.
Winship, Charles N., doing business as Winship, Bolt & Co., Wakefield, Mass. Bathing suits. 304,374; July 4; Serial No. 335,046; published Apr. 11, 1933. Class 39.
Wishnetzky, Morris, New York, N. Y. Soaps, cleansers and cleaning compounds. 304,388–9; July 4; Serial Nos. 319,162–3; published Nov. 24, 1931. Class 4.
Wishnetzky, Morris, New York, N. Y. Soaps, cleansers and cleaning compounds. 304,391; July 4; Serial No. 319,161; published Nov. 24, 1931. Class 4.
Wolf Collieries Company, Inc., Freeland, Pa. Coal. 304,392; July 4; Serial No. 326,627; published Apr. 18, 1933. Class 1.
Wrigley, Wm., Jr. Company, Chicago, Ill. Chewing gum. 304,384; July 4; Serial No. 334,626; published Apr. 4, 1933. Class 46.
Wurlitzer, Rudolph, Manufacturing Company, The, North Tonawanda, N. Y. Refrigerators and parts. 304,420; July 4. Class 31.
X-Otic, Incorporated, New York, N. Y. Garment for infants and very young children in the nature of a sun suit. 304,356; July 4; Serial No. 334,452; published Apr. 11, 1933. Class 39.

LIST OF REGISTRANTS OF LABELS

A-Lure Beauty Cream Company. (See Cefalde, Joseph.)
Austin Canning Co. (See Walker's Austex Chile Company.)
Benteco Baking Company, Burlington, Iowa. Queen's Taste. For Bread. 42,347; July 4.
Brooklyn Bottling & Distributing Co., Inc., Brooklyn, N. Y. Brooklyn Beer. For Beer. 42,348; July 4.
Calavo Growers of California, Los Angeles, Calif. Calavoil. For Avocado Oil. 42,349; July 4.
Cefalde, Joseph, doing business as A-Lure Beauty Cream Company, Youngstown, Ohio. A-Lure Beauty Cream. For Beauty Cream. 42,350; July 4.
Goldberg, Berdye S., doing business as Sigel Laboratories, Los Angeles, Calif. SI-Noze. For Medicinal Preparation for the Nasal Passages. 42,351; July 4.
McClain Brothers Company, Canton, Ohio. Fungol. For Chemical Compound Used as a Fungicide and as an Exterminator for Soil Vermin. 42,352; July 4.
My-T-Fine Corporation, Brooklyn, N. Y. My-T-Fine-Gelatin Dessert—Strawberry Flavor. For Mixture of Ingredients to be Used in Making Gelatin Dessert. 42,353; July 4.
My-T-Fine Corporation, Brooklyn, N. Y. My-T-Fine-Gelatin Dessert—Coffee Flavor. For Mixture of Ingredients Used in Making Gelatin Dessert. 42,354; July 4.
Peters, J. R., & Co., Philadelphia, Pa. Lady Irene. For Bread. 42,355; July 4.
Renner, George J., Brewing Company, The, Akron, Ohio. Grossvater. For Beer. 42,356; July 4.
Schmidt, C., & Sons, Inc., Philadelphia, Pa. Schmidt's Beer. For Beer. 42,357; July 4.
Sigel Laboratories. (See Goldberg, Berdye S.)
Thomson, J. G., & Co. Ltd., Leith, Scotland. Thomson's Rare Old Blended Whisky R. A. Scotch. For Whisky. 42,358; July 4.
Tivoli Brewing Company, Detroit, Mich. Pilsner Type Beer. For Beer Bottles. 42,359; July 4.
Tonic Mesh Company, Bayville, N. J. Stimulating Hygienic Tonic Mesh. For Wash Cloths. 42,360; July 4.
Walker's Austex Chile Company, doing business as Austin Canning Co., Austin, Tex. Alamo Mexican Style Chile Con Carne. For Canned Chile Con Carne. 42,361; July 4.
Walker's Austex Chile Company, doing business as Austin Canning Co., Austin, Tex. Alamo Mexican Style Tamales With Chile Gravy. For Canned Tamales with Chile Gravy. 42,362; July 4.
Weppner Well Company, The, Cleveland, Ohio. World Wide. For Coffee. 42,363; July 4.
Winner Cigar Corp., Astoria, Long Island, N. Y. Pennant. For Cigars. 42,364; July 4.

LIST OF REGISTRANTS OF PRINTS

Brill, H. C., Company, Inc., Newark, N. J. Brill's E-Zee Freez. For Ice Cream Powder. 14,250; July 4.
Golden, A. J., Baltimore, Md. Now 2 for 5¢. For Cigars. 14,251; July 4.
Restaurants and Patisseries Longchamps, Incorporated, New York, N. Y. There is No Compromise with Quality at Longchamps. For Foods. 14,252; July 4.
Schwartz, Ernest J., New York, N. Y. Celebrity Fashions. For Apparel. 14,253; July 4.
Skinner Manufacturing Company, Omaha, Nebr. Skinner's Fruit Pectin. For Fruit Pectin. 14,254; July 4.
Stahl-Meyer, Inc., Brooklyn, N. Y. Stahl-Meyer Pure Pork Sausages. For Pork Sausages. 14,255; July 4.
Stahl-Meyer, Inc., Brooklyn, N. Y. Stahl-Meyer Always Tasty! Always Fresh! Imported Style Frankfurters. For Frankfurters. 14,256; July 4.
Swift & Company, Chicago, Ill. "Hidden Name Test" Proves New Sunbrite Cleanser Cleans Easier. For Cleansing and Scouring Powder. 14,257; July 4.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Chemical preparation. H. R. Isenburger. 304,404; July 4; Serial No. 332,846; published Apr. 18, 1933.
Coal. Koppers Coal Company. 304,394; July 4; Serial No. 328,434; published Apr. 18, 1933.
Coal. Wolf Collieries Company. 304,392; July 4; Serial No. 326,627; published Apr. 18, 1933.
Molding composition. Tennessee Eastman Corporation. 304,385; July 4; Serial No. 334,622; published Apr. 18, 1933.

CLASS 3

Suitcases, hat boxes, etc. Hartmann Trunk Company. 304,375; July 4; Serial No. 335,061; published Apr. 18, 1933.

CLASS 4

Chemical compound used as a detergent. Electric Smelting and Aluminum Company. 92,659; renewed July 22, 1933.
Soap. J. B. Williams Company. 304,413; July 4.
Soaps, cleansers and cleaning compounds. M. Wishnetzky. 304,388–9; July 4; Serial Nos. 319,162–3; published Nov. 24, 1931.
Soaps, cleansers, and cleaning compounds. M. Wishnetzky. 304,391; July 4; Serial No. 319,161; published Nov. 24, 1931.

CLASS 5

Adhesive, Rubber. Naugatuck Chemical Company. 304,395; July 4; Serial No. 327,884; published Apr. 18, 1933.

CLASS 6

Chemicals and pharmaceutical preparations. Prichard & Constance (Wholesale) Ltd. 92,123; renewed June 17, 1933.
Dentifrice. R. Lich. 94,245; renewed Nov. 18, 1933.
Poison. Stearns' Electric Paste Company. 304,350; July 4; Serial No. 333,486; published Mar. 28, 1933.
Purgative syrup. California Fig Syrup Co. 41,338–9; renewed Oct. 20, 1933.
Remedy for genito-urinary diseases. Reese Chemical Company. 93,370; renewed Sept. 9, 1933.

CLASS 9

Matches. Jönköpings och Vulcans Tändsticksfabriksaktiebolag. 91,669; renewed May 20, 1933.
Matches. Nitedals Tændstikfabrik. 91,987; renewed June 10, 1933.
Matches. Nitedals Tændstikfabrik. 91,992; renewed June 10, 1933.
Matches. Nitedals Tændstikfabrik. 92,906; renewed Aug. 5, 1933.

CLASS 12

Doors, Revolving. Van Kannel Revolving Door Company. 94,133; renewed Nov. 4, 1933.
Doors, sash, and moldings. Pacific Mutual Door Company. 92,823; renewed July 29, 1933.

CLASS 13

Pipe and fittings. McWane Cast Iron Pipe Company. 304,421; July 4.

CLASS 21

Electric cables. Habirshaw Cable and Wire Corporation. 304,429; July 4.

CLASS 22

Bait, Artificial. Enterprise Manufacturing Company. 304,422; July 4.
Bait, Bass and trout bugs. Enterprise Manufacturing Company. 304,423; July 4.
Tennis net covers and court marking tapes. R. Healy. 304,427; July 4.

CLASS 23

Doctors for calenders, driers, etc. Bird Machine Company. 304,436; July 4.
Knives, shears, edge tools. F. W. Franzmann. 304,402; July 4; Serial No. 332,393; published Apr. 18, 1933.
Picks, kitchen forks, spatulas, etc., Ice. Utility Mfg. Co. Inc. 304,401; July 4; Serial No. 330,940; published Apr. 18, 1933.
Razor blades. Brock, Kurian & Company. 304,357; July 4; Serial No. 334,484; published Apr. 18, 1933.
Razor blades, Safety. Marathon Razor Blade Co. 304,360; July 4; Serial No. 334,493; published Apr. 18, 1933.
Razor blades, Safety. Marathon Razor Blade Co. 304,372; July 4; Serial No. 335,126; published Apr. 18, 1933.
Razors and razor blades. A. Kimball. 304,369; July 4; Serial No. 335,203; published Apr. 18, 1933.
Razors, Safety, blades, etc. Ericsson Safety Razor Co. Inc. 304,433; July 4.
Sharpener, Mechanical razor blade. Morris-Collier Corporation. 304,390; July 4; Serial No. 325,007; published Apr. 18, 1933.

CLASS 25

Safes and parts. Diebold Safe & Lock Co. 304,414; July 4.

CLASS 26

Cameras and films. Atlas Supply Company. 334,359; July 4; Serial No. 334,552; published Apr. 18, 1933.
Listing and adding machines, Combined. Felt & Tarrant Manufacturing Company. 40,417; renewed May 19, 1933.

CLASS 31

Refrigerators and parts. Rudolph Wurlitzer Manufacturing Company. 304,420; July 4.

CLASS 32

Cabinets. H. A. Mans. 304,354; July 4; Serial No. 334,400; published Apr. 18, 1933.
Furniture. Estey Manufacturing Company. 40,229; renewed Apr. 28, 1933.
Rollers, Shade. Stewart Hartsborn Company. 304,376; July 4; Serial No. 334,938; published Apr. 18, 1933.
Springs and seat spring constructions. C. L. Greeno Co. 304,377; July 4; Serial No. 334,897; published Apr. 18, 1933.

CLASS 35

Linings, Brake. Allbestos Corporation. 304,368; July 4; Serial No. 335,226; published Apr. 18, 1933.
Linings, Brake. Brake Linings Limited. 304,349; July 4; Serial No. 333,847; published Apr. 18, 1933.
Pipe-coupling rings, Piston-packing, etc., Rubber. Manhattan Rubber Mfg. Co. 94,099; renewed Nov. 4, 1933.
Tires, Automobile. Western Auto Supply Agency of Los Angeles. 304,397; July 4; Serial No. 320,412; published Apr. 18, 1933.
Washers, gaskets, and packings. Jenkins Bros. 304,366–7; July 4; Serial Nos. 335,321–2; published Apr. 18, 1933.

CLASS 36

Clarinets, flutes, etc. H. Bettoney. 304,415; July 4.

CLASS 37

Paper, Writing. L. L. Brown Paper Company. 304,425; July 4.

CLASS 39

Blouses and dresses. Breger & Weiner, Inc. 304,379; July 4; Serial No. 334,860; published Apr. 11, 1933.
Boots and shoes. International Shoe Co. 304,438; July 4.
Boots and shoes. Thayer McNeil Company. 304,416; July 4.
Clothing. Phillips-Hendon Co. 92,258; renewed June 24, 1933.
Clothing and furnishings. Gimbel Brothers, Inc. 304,409; July 4.
Clothing, Oiled. J. F. Carter Company. 94,057–9; renewed Nov. 4, 1933.
Coats. Carole, Inc. 304,405; July 4; Serial No. 332,643; published Apr. 18, 1933.
Coats. Morris Nagel & Co. Inc. of Manhattan. 304,351; July 4; Serial No. 334,287; published Apr. 18, 1933.
Coats. Siegel Brothers, Inc. 304,373; July 4; Serial No. 335,075; published Apr. 11, 1933.
Coats. Stern-Siegman Prins Company. 304,386; July 4; Serial No. 324,195; published Oct. 4, 1932.
Coats, pants, and work shirts. Bellmore Manufacturing Company. 304,355; July 4; Serial No. 334,457; published Apr. 11, 1933.
Dresses, pajamas, uniforms, etc. Chic Manufacturing Company. 304,352; July 4; Serial No. 333,965; published Apr. 4, 1933.
Dresses, pajamas, vests, etc. U-No-Jaunty Dress, Inc. 304,381; July 4; Serial No. 334,779; published Apr. 4; 1933.
Garment for infants and very small children in the nature of a sun suit. X-Otic, Incorporated. 304,356; July 4; Serial No. 334,452; published Apr. 11, 1933.
Garments. Société Anonyme Lucile Paray. 304,417; July 4.
Hosiery. Hanes Hosiery Mills Co. 304,424; July 4.
Hosiery. Quaker Hosiery Company. 304,399; July 4; Serial No. 329,961; published Jan. 3, 1933.
Hosiery, underwear, shirts, etc. I. Glaser. 304,361; July 4; Serial No. 334,602; published Apr. 4, 1933.
Hosiery, Women's. F. Hirshfield. 304,383; July 4; Serial No. 334,708; published Apr. 11, 1933.
Neckties. Botany Worsted Mills. 304,380; July 4; Serial No. 334,789; published Apr. 11, 1933.
Overcoats, suits, dresses, etc. M. B. Sachs. 304,358; July 4; Serial No. 334,482; published Apr. 4, 1933.
Panties, dansettes, chemises, etc. Style-Craft Lingerie, Inc. 304,353; July 4; Serial No. 334,449; published Apr. 4, 1933.
Shirts, collars, and underwear. Hall, Hartwell & Co. Inc. 304,347; July 4; Serial No. 333,476; published Apr. 18, 1933.

Shirts, Men's dress. Wilson Brothers. 304,396; July 4; Serial No. 329,543; published Apr. 18, 1933.
Shirts, pajamas, men's underwear, hosiery, and neckties. Wilson Brothers. 304,387; July 4; Serial No. 315,513; published Apr. 18, 1933.
Shoes. M. Dobrein. 304,432; July 4.
Shoes. Geo. E. Keith Company. 304,431; July 4.
Shoes and slippers. Dolgeville Slipper Company. 304,435; July 4.
Shoes, Leather. A. Posner. 91,690; renewed May 20, 1933.
Suits, Bathing. C. N. Winship. 304,374; July 4; Serial 334,832; published Apr. 4, 1933.
Suits, Bathing. C. N. Winship. 304,374; July 4; Serial No. 335,046; published Apr. 11, 1933.
Suits and overcoats. M. Wile & Company. 304,345; July 4; Serial No. 333,184; published Feb. 21, 1933.
Suits, Men's. Baker Clothes, Inc. 304,382; July 4; Serial No. 334,728; published Apr. 11, 1933.
Suits, overcoats, topcoats. Gorman-Nathan Co. Inc. 304,393; July 4; Serial No. 330,744; published Apr. 4, 1933.
Suits, overcoats, trousers, etc. I. Grossman. 304,362; July 4; Serial No. 334,559; published Apr. 4, 1933.
Sweaters and dresses. Peerless Sport Apparel Co. Inc. 304,348; July 4; Serial No. 333,450; published Apr. 4, 1933.
Sweaters and sweat shirts. Gardiner-Warring Company. 304,346; July 4; Serial No. 333,121; published Apr. 11, 1933.
Sweaters, sweat shirts, and underwear. Gardiner-Warring Company. 304,343; July 4; Serial No. 333,120; published Apr. 11, 1933.
Underwear. Celanese Corporation of America. 304,365; July 4; Serial No. 335,349; published Apr. 18, 1933.
Underwear. Celanese Corporation of America. 304,370–1; July 4; Serial Nos. 335,188–9; published Apr. 11, 1933.
Underwear, hosiery, and bathing suits. A. M. Webb & Co. Inc. 304,406; July 4; Serial No. 332,937; published Apr. 11, 1933.
Underwear shorts. A. M. Webb & Co. Inc. 304,407; July 4; Serial No. 332,936; published Apr. 11, 1933.

CLASS 40

Fasteners known as snap-buttons. Garment. Waldes & Co. 91,725; renewed May 20, 1933.
Fasteners known as snap-buttons. Garment. Waldes & Co. 91,826; renewed May 27, 1933.
Lingerie shoulder strap holders. H. C. Hill Mfg. Co. 304,428; July 4.
Snap-buttons used as garment-fasteners. Waldes & Co. 91,823; renewed May 27, 1933.

CLASS 42

Piece goods of cotton, silk, etc. A. S. Eiseman. 304,439; July 4.

CLASS 45

Beverages and flavoring, Nonalcoholic. Ben-Burk, Incorporated. 304,426; July 4.

CLASS 46

Bread. Geo. F. Stubmer & Company. 304,400; July 4; Serial No. 330,973; published Mar. 28, 1933.
Cake, Fruit. Collin Street Bakery. 93,826; renewed Oct. 21, 1933.
Chow mein, chop sooy. Chin Lee Co. 304,418; July 4.
Chow mein, chop sooy, beef with peppers, etc. Chin Lee Co. 304,419; July 4.
Coffee. J. A. Folger & Company. 92,545–7; renewed July 15, 1933.
Coffee, Blended. William S. Scull Company. 94,207; renewed Nov. 11, 1933.
Coffee, Green. J. Aron & Co. 304,403; July 4; Serial No. 331,982; published Apr. 18, 1933.
Flour. Red Band Company. 304,342; July 4; Serial No. 333,014; published Apr. 18, 1933.
Foods. John F. Lalla Company. 94,007; renewed Oct. 28, 1933.
Gum, Chewing. Wm. Wrigley Jr. Company. 304,384; July 4; Serial No. 334,626; published Apr. 4, 1933.
Jelly, apricots, etc. A. C. Braden, Ltd. 304,437; July 4.
Milk, cream, butter, etc. Adhor Creamery Company. 304,344; July 4; Serial No. 333,050; published Apr. 18, 1933.
Rice, Spanish Style. F. J. Silk. 304,393; July 4; Serial No. 326,236; published Dec. 6, 1932.
Salmon, sardines, etc. A. C. Braden, Ltd. 304,434; July 4.

CLASS 48

Beer, Lager. Jung Brewing Company. 92,679; renewed July 22, 1933.

CLASS 49

Whiskey. Sherwood Distilling and Distributing Company. 304,412; July 4.
Whiskey and gin. United Distillers Limited. 304,408; July 4.
Whiskey and gin. United Distillers Limited. 304,410; July 4.
Whisky, Liqueur scotch. Macleay, Duff & Co. 304,411; July 4.

CLASS 50

Enameled sheets. Gemloid Corporation. 304,430; July 4.

LIST OF LABELS

Alamo Mexican Style Chile Con Carne. For Canned Chile Con Carne. Walker's Austex Chile Company. 42,361; July 4.
Alamo Mexican Style Tamales with Chile Gravy. For Canned Tamales With Chile Gravy. Walker's Austex Chile Company. 42,362; July 4.
A-Lure Beauty Cream. For Beauty Cream. J. Cefalde. 42,350; July 4.
Brooklyn Beer. For Beer. Brooklyn Bottling & Distributing Co. 42,348; July 4.
Calavoil. For Avocado Oil. Calavo Growers of California. 42,349; July 4.
Fungol. For Chemical Compound Used as a Fungicide and as an Exterminator for Soil Vermin. McClain Brothers Company. 42,352; July 4.
Grossvater. For Beer. George J. Renner Brewing Company. 42,356; July 4.
Lady Irene. For Bread. J. R. Peters & Co. 42,355; July 4.
My-T-Fine-Gelatin Dessert—Coffee Flavor. For Mixture of Ingredients Used in Making Gelatin Dessert. My-T-Fine Corporation. 42,354; July 4.
My-T-Fine-Gelatin Dessert — Strawberry Flavor. For Mixture of Ingredients to be Used in Making Gelatin Dessert. My-T-Fine Corporation. 42,353; July 4.
Penchant. For Cigars. Winner Cigar Corp. 42,364; July 4.
Pilsner Type Beer. For Beer Bottles. Tivoli Brewing Company. 42,359; July 4.
Queen's Taste. For Bread. Benteco Baking Company. 42,347; July 4.
Schmidt's Beer. For Beer. C. Schmidt & Sons, Inc. 42,357; July 4.
Si-Noze, For Medicinal Preparation for the Nasal Passages. B. S. Goldberg. 42,351; July 4.
Stimulating Hygienic Tonic Mesh. For Wash Cloths. Tonic Mesh Company. 42,360; July 4.
Thomson's Rare Old Blended Whisky R. A. Scotch. For Whisky. J. G. Thomson & Co. 42,358; July 4.
World Wide, For Coffee. Weppner Well Company. 42,363; July 4.

LIST OF PRINTS

Brill's E-Zee Freez. For Ice Cream Powder. H. C. Brill Company. 14,250; July 4.
Celebrity Fashions. For Apparel. E. J. Schwartz. 14,253; July 4.
"Hidden Name Test" Proves New Sunbrite Cleanser Cleans Easier. For Cleansing and Scouring Powder. Swift & Company. 14,257; July 4.
Now 2 for 5¢. For Cigars. A. J. Golden. 14,251; July 4.
Skinner's Fruit Pectin. For Fruit Pectin. Skinner Manufacturing Company. 14,254; July 4.
Stahl-Meyer Pure Pork Sausages. For Pork Sausages. Stahl-Meyer, Inc. 14,255; July 4.
Stahl-Meyer Always Tasty! Always Fresh! Imported Style Frankfurters. For Frankfurters. Stahl-Meyer, Inc. 14,256; July 4.
There is no Compromise With Quality at Longchamps. For Foods. Restaurants and Patisseries Longchamps, Incorporated. 14,252; July 4.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF JULY, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A C Spark Plug Company. (See Bacon, E. F., and Dinsmore, assignors.)

A C Spark Plug Company. (See Zubaty, J., and Smith, assignors.)

Ackermann, Hugo, Bonn-on-the-Rhine, assignor to Didier-Werke Aktiengesellschaft, Berlin-Wilmersdorf, Germany. Ceramic product and method of manufacturing the same. 1,917,181; July 4.

Acosta, José, New York, N. Y. Sugar measuring and serving device. 1,916,819; July 4.

Adams, Clark M., assignor to Moto Meter Gauge & Equipment Corporation, Toledo, Ohio. Instrument panel. 1,917,079; July 4.

Adams, James L., jr., assignor to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Electric welding machine and welding. 1,917,210; July 4.

Advance Machine Company. (See Richardson, Myron H., assignor.)

Agfa Ansco Corporation. (See Wendt, B., and Bincer, assignors.)

Agfa Ansco Corporation. (See Wendt, B., Bincer, and Fröhlich, assignors.)

Aichner, Frans. (See Schwenk, E., Gehrke, and Aichner.)

Aihara, Kyutaro, Tetsudo-Kansha, Teishaba-Dori, Mihoro-Machi, Abashiri-Gun, Hokkaido, Japan. Weighing device for wagons. 1,917,080; July 4.

Air Reduction Company. (See Hasbrouck, David M., assignor.)

Ajax Electrothermic Corporation. (See Northrup, Edwin F., assignor.)

Aktiebolaget Gerh. Archns Mekanikka Verkstad. (See Johnson, Bror A. E., assignor.)

Aktiengesellschaft für Stickstoffdünger. (See Weibezahn, C., and Walter, assignors.)

Albrecht, Harry. (See Harbour, A. L., and Albrecht.)

Alexander, Roy W., Newark, N. J. Straining attachment for pans and kettles. 1,916,710; July 4.

Alexanderson, Ernst F. W. (See Hammond, J. H., jr., and Alexanderson.)

Alexanderson, Ernst F. W. (See Nixdorff, S. P., and Alexanderson.)

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. System of electric power transmission. 1,917,081; July 4.

Alexanderson, Ernst F. W., P. L. Alger, and S. P. Nixdorff, Schenectady, N. Y., assignors to General Electric Company. System of electric power transmission. 1,917,082; July 4.

Alger, Philip L. (See Alexanderson, E. F. W., Alger, and Nixdorff.)

Allen, Earl D., Spokane, Wash. Combined electric lamp and picture frame. Des. 90,222; July 4.

Allen, Earl D., Spokane, Wash. Combined electric lamp and picture frame. Des. 90,223; July 4.

Allen, Earl D., Spokane, Wash. Picture frame or similar article. Des. 90,224; July 4.

Allen, Earl D., Spokane, Wash. Picture frame or similar article. Des. 90,225; July 4.

Allen, Earl D., Spokane, Wash. Combined electric lamp and picture frame. Des. 90,226; July 4.

Allen, Frank B., Lower Merion Township, Montgomery County, assignor, by mesne assignments, to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Method and apparatus for handling molten materials. 1,916,402; July 4.

Allen, George W., Boston, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Vacuum cleaner. 1,916,353; July 4.

Allen-Sherman-Hoff Company. (See Allen, Frank B., assignor.)

Allgeier, Frederick W., Lakewood, assignor to The Leonard Electric Mfg. Company, Cleveland, Ohio. Fuse tightener. 1,916,711; July 4.

Allis, Louis, Company, The. (See Smith, Harold L., assignor.)

Allmänna Svenska Elektriska Aktiebolaget. (See Dreyfus, Ludvig A., assignor.)

Aluminum Cooking Utensil Company, The. (See Bringmann, Irving W., assignor.)

Alvey Manufacturing Company. (See Worrall, Roy R., assignor.)

American Anode Inc. (See Klein, P., and Szegvari, assignors.)

American Brake Shoe and Foundry Company, The. (See Pogue, Robert B., assignor.)

American Brass Company, The. (See French, Fred W., and L. H., and Rathbun, assignors.)

American Can Company. (See Cabot, Walter K., assignor.)

American Can Company. (See Geertsen, Nelson, assignor.)

American Can Company. (See Nicholls, Henry M., assignor.)

American Cotton Picker Corporation. (See Willett, W. R., and Brown, assignors.)

American Electrical Heater ompany. (See Hanser, C. A., and Lockwood, assignors.)

American Electrical Heater Company. (See Kuhn, F., and Thomas, assignors.)

American Engineering Company. (See Bennett, Joseph S., assignor.)

American Fork & Hoe Company, The. (See Foss, William A., assignor.)

American Glanzstoff Corporation. (See Bochmann, Otto, assignor.)

American Glanzstoff Corporation. (See Etzkorn, Rudolf, assignor.)

American Laundry Machinery Corporation. (See Malott, Clifton S., jr., assignor.)

American Meter Company. (See Diehl, John C., assignor.)

American Sealcone Corporation. (See Jones, Ellis L., assignor.)

American Telephone and Telegraph Company. (See Edwards, Paul G., assignor.)

American Telephone and Telegraph Company. (See Holden, William H. T., assignor.)

Anastor, Charles G., assignor to Kimble Glass Company, Vineland, N. J. Dispensing appliance. 1,916,195; July 4.

Anderson, Arvid E., Lansdowne, Pa., assignor to General Electric Company. System of electric distribution. 1,917,083; July 4.

Anderson, Charles W., Toledo, Ohio. Drain trap. 1,916,911; July 4.

Anderson, John A., Grand Rapids, Mich. Curtain stretcher. 1,917,084; July 4.

Anderson, Reuben W., and M. J. Kane, Minneapolis, Minn. Display device. 1,917,005; July 4.

Anderson, Samuel M., Sharon, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Air conditioning method and apparatus. 1,917,006; July 4.

Andreas, Arno, Munster, Germany. Method and apparatus for manufacturing valve bags. 1,916,203; July 4.

Animal Trap Company of America. (See Zahm, Joseph D., assignor.)

Animal Trap Company of America. (See Zahm, J. D., and Lehn, assignors.)

Anklam, William F., Detroit, Mich. Bird house. 1,916,878; July 4.

Apollo Shirt Company. (See Wolf, Abraham, assignor.)

Appleford, Leslie M., Hamilton, Ontario, Canada. Floor waxer and polisher. 1,916,649; July 4.

Armstrong, Charles C., assignor to L. R. Nelson Manufacturing Co., Inc., Peoria, Ill. Spray nozzle. 1,916,912; July 4.

Armstrong, Fred S., River Forest, assignor to Jefferson Electric Company, Bellwood, Ill. Mercury switch and the like. 1,916,957; July 4.

Art Metal Construction Company. (See Carlson, David A., assignor.)

Aseltine, Fred E., assignor to Delco Products Corporation, Dayton, Ohio. Charge forming device. 1,916,906; July 4.

Atkins, George E., Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound translating device. 1,917,007; July 4.

Atkinson, Frederick C., Indianapolis, Ind., assignor to John G. Praed. Tooth paste. 1,916,403; July 4.

Atwood, G. D., Brooklyn, N. Y. Receptacle for material-carrying spools. 1,916,712; July 4.

Austin, Basil G., West Hartford, assignor to The Austin Organ Company, Hartford, Conn. Electrically operated valve for organ pipes. 1,916,820; July 4.

Austin Organ Company, The. (See Austin, Basil G., assignor.)

Auto Research Corporation. (See Bijur, Joseph, assignor.)

Automatic Lighter Corporation. (See Girtanner, Alexander, assignor.)

Axe, Roy T., assignor, by mesne assignments, to The Syracuse Trust Company, Syracuse, N. Y. Sheet metal sash construction. 1,916,913; July 4.

Ayer, Frank, A. Crowfoot, H. T. Hérivel and P. M. Sorensen, assignors to Phelps Dodge Corporation, Morenci, Ariz. Treating ores. 1,916,196; July 4.

Ayres, Robert O., F. A. Kroll, and E. A. Johnson; said Johnson assignor to J. H. McEvoy and Company, Houston, Tex. Return bend. 1,916,598; July 4.

B. H. R. W. Development Company, The. (See Walsh, Thomas P., assignor.)
Baars, Ernst S. H., assignor to The Vilter Manufacturing Company, Milwaukee, Wis. Refrigerating apparatus. 1,916,197; July 4.
Bachardy, Stephen J., Allentown, Pa., assignor to Kwickway Money Changer Corporation of Delaware. Money delivering machine. 1,916,246; July 4.
Bacinich, Anton, Brooklyn, N. Y. Rescue tower. 1,916,294; July 4.
Back, Robert, assignor to The Wahl Company, Chicago, Ill. Writing implement. 1,916,199; July 4.
Bacon, Elbridge F., and C. B. Dinsmore, assignors to A C Spark Plug Company, Flint, Mich. Hydrostatic fuel gauge. 1,916,188; July 4.
Bailey, Walter T. (See Rider, E. G., and Bailey.)
Baird, William, Manchester, England, assignor to Imperial Chemical Industries Limited. Artificial resinous substance. 1,916,295; July 4.
Baker Perkins Company. (See Schmidt, Otto, assignor.)
Bales, James E., assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Cabinet construction. 1,916,189; July 4.
Ballard, Roscoe F. (See Warner, A. W., and Ballard.)
Barber-Colman Company. (See Ransome, Stafford M., assignor.)
Barber-Greene Company. (See Barber, Harry H., assignor.)
Barber, Harry H., assignor to Barber-Greene Company, Aurora, Ill. Laterally shiftable digging boom. 1,916,247; July 4.
Barber, Harry H., assignor to Barber-Greene Company, Aurora, Ill. Digging bucket. 1,916,354; July 4.
Barber Manufacturing Company. (See Jones Roy S., assignor.)
Barber, William H., Ongarue, New Zealand. Seed distributor. 1,917,085; July 4.
Barker, George A., Rochester, N. Y. Lubricator. 1,916,248; July 4.
Barker, Maurice E., U. S. Army, Cambridge, Mass. Catalyst. 1,916,249; July 4.
Barker, Norman M. (See Edwards, F. W., and Barker.)
Barr, Clarence D., and S. D. Moxley, Birmingham, Ala., assignors to Sand Spun Patents Corporation, New York, N. Y. Centrifugal casting machine. 1,916,296; July 4.
Bartlett, Joseph W., Dallas, Tex. Removing impurities from gas. 1,916,551; July 4.
Barton, James P., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Transmitting system. 1,916,404; July 4.
Baughn, Charles O., Muskogee, Okla. Vehicle headlight indicator. Des. 90,227; July 4.
Baum, Erich. (See Herrmann, W. O., and Baum.)
Bausch & Lomb Optical Company. (See Bouchard, Samuel E., assignor.)
Bausch & Lomb Optical Company. (See Emmons, Richard C., assignor.)
Bausman, Alonzo L., Springfield, Mass. Method and apparatus for making confections. 1,916,960; July 4.
Bausman, Alonzo L., assignor to National Equipment Company, Springfield, Mass. Article aligning mechanism. 1,916,959; July 4.
Beach, Albert L., assignor to The Lamson Company, Syracuse, N. Y. Conveyor system. 1,916,552; July 4.
Beadle, Blanche E., Springfield, Mass. Hair former. 1,916,943; July 4.
Beall, Orville H., and O. De Cardy, Chicago, Ill. Paper weight or similar article. Des. 90,228; July 4.
Beard, Leslie C., jr. (See Rather, J. B., Beard, and Reiff.)
Beauchamp, Dora F., New York, N. Y. Retaining and sustaining device. 1,917,086; July 4.
Beauchamp, Wilfred A., assignor to Camel Company, Chicago, Ill. Latching device. 1,916,650; July 4.
Beauchamp, William L. (See Davis, R. S., and Beauchamp, assignors.)
Beck, William O., Ridgefield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Timing mechanism. 1,917,008; July 4.
Becker, Aloysius W., Chicago, Ill. Combination ash tray and glass holder. Des. 90,229; July 4.
Becket, Frederick M., New York, N. Y., assignor to Electro Metallurgical Company. Alloy. 1,916,780; July 4.
Bedford, John A. (See Parrish, Richard, assignor.)
Beeman, Edwin R., and L. B. Edwards, Minneapolis, Minn.; said Edwards assignor to said Beeman. Door actuating mechanism. 1,916,651; July 4.
Beeman, Edwin R., and L. B. Edwards, Minneapolis, Minn.; said Edwards assignor to said Beeman. Door operating mechanism. 1,916,652; July 4.
Beers, George L., Merchantville, N. J., assignor to Westinghouse Electric & Manufacturing Company. Amplifier. 1,916,405; July 4.
Behrman, Abraham S., Chicago, Ill. Production of halogen compounds. 1,916,457; July 4.
Belcher, Alva. (See Fehl, J., and Belcher.)
Bell, Ernest E., Hinsdale, Ill., assignor to The Cash Protector Company, Cleveland, Ohio. Door for cash protectors. 1,916,406; July 4.
Bell Telephone Laboratories, Incorporated. (See Atkins, George E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Beck, William O., assignor.)
Bell Telephone Laboratories, Incorporated. (See Betts, W. L., and Soreny, assignors.)
Bell Telephone Laboratories, Incorporated. (See Blattner, David G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Boatwick, Lee G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Bruce, E., and Friis, assignors.)
Bell Telephone Laboratories, Incorporated. (See Burton, Everett T., assignor.)
Bell Telephone Laboratories, Incorporated. (See Henry, Israel H., assignor.)
Bell Telephone Laboratories, Incorporated. (See Henry, I. H., and Hersey, assignors.)
Bell Telephone Laboratories, Incorporated. (See Ives, Herbert E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Jacobs, Oliver B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Kalin, Walter, assignor.)
Bell Telephone Laboratories, Incorporated. (See Nebel, Charles N., assignor.)
Bell Telephone Laboratories, Incorporated. (See Och, H. G., and Hinshaw, assignors.)
Bell Telephone Laboratories, Incorporated. (See Quarles, Donald A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Rommes, Haaken I., assignor.)
Bell Telephone Laboratories, Incorporated. (See Smythe, Edwin H., assignor.)
Bellis, Arthur E., Branford, Conn. Recuperative and regenerative heat treatment of metals. 1,916,407; July 4.
Bendix Brake Company. (See Dodge, Adiel Y., assignor.)
Bennett, Arthur F., West Barrington, R. I., assignor to Brown and Sharpe Manufacturing Company. Control mechanism for machine tools. 1,916,914; July 4.
Bennett, Irving T., Brooklyn, N. Y., assignor, by mesne assignments, to Metropolitan Engineering Company. Window ventilator. 1,916,355; July 4.
Bennett, James G. (See Knickerbocker, George S., assignor.)
Bennett, Joseph S., assignor to American Engineering Company, Philadelphia, Pa. Water cooled stoker. 1,916,713; July 4.
Bensa, Felice. (See Pongratz, Alfred, assignor.)
Benson, Bernhart A., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Oscillating electric fan. 1,916,599; July 4.
Benson, Burt L., Wheaton, Ill. Blade sharpener. 1,916,600; July 4.
Bersted, Martin C., San Diego, Calif. Faucet. 1,916,553; July 4.
Bertorello, John J., Montrose, assignor to A. Bover, Delta, Colo. Universal marker. 1,916,250; July 4.
Bess, Guy R., Chicago, Ill. Ink dispensing device. 1,916,200; July 4.
Bethlehem Steel Company. (See Dawson, Thomas C., assignor.)
Betts, Walter L., Brooklyn, and E. Soreny, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical connecter. 1,917,009; July 4.
Bevington, John E., Cleveland, and Brennan B. West, Cleveland Heights, Ohio. Wrench for screw caps of jars and bottles. 1,916,554; July 4.
Bigelow, Charles G. (See Hayes, J. C., jr., and Bigelow.)
Bigelow, Charles G., assignor to Freyn Engineering Company, Chicago, Ill. Checker construction. 1,916,458; July 4.
Bigney, S. O., & Company. (See Bigney, Sidney O., assignor.)
Bigney, Sidney O., assignor to S. O. Bigney & Company, Attleboro, Mass. Bracelet. 1,916,821; July 4.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Auto Research Corporation. Lubrication. 1,916,251; July 4.
Bincer, Hans. (See Wendt, B., and Bincer.)
Bincer, Hans. (See Wendt, B., Bincer, and Fröhlich.)
Bird, Fred A., Kansas City, Mo. Extensible stage. 1,917,010; July 4.
Bird, Fred A., Kansas City, Mo. Telescoping stage. 1,917,011; July 4.
Birdseye, Clarence, Gloucester, Mass., assignor, by mesne assignments, to Frosted Foods Company, Inc., Dover, Del. Edible meal and preparing the same. 1,916,915; July 4.
Biringer, Joseph F., Toledo, Ohio. Turf edger. 1,916,749; July 4.
Bischoff, Ludwig, Brooklyn, N. Y. Receptacle. 1,916,854; July 4.
Bizzari, Anthony, New York, N. Y. Device for forming noodles, spaghetti, and the like. 1,916,411; July 4.
Black Products Company. (See Lorimer, George W., assignor.)
Black, Ray L., Orcutt, Calif. Ornamental accessory for automobiles. 1,916,750; July 4.
Blackman, Edward L., Brooklyn, N. Y. Fore and aft rigged vessel. 1,916,459; July 4.
Blatchford, George, Friend, Nebr. Seeder. 1,916,781; July 4.
Blattner, David G., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound translating device. 1,917,012; July 4.
Blume, Louis F., and G. Camilli, Pittsfield, Mass., assignors to General Electric Company. Protective device for electrical apparatus. 1,917,087; July 4.

Blunt, James G., Schenectady, N. Y. Frame cross-tie and apparatus supporting structure for locomotives. 1,916,201; July 4.
Boardman, Harry C., assignor to Chicago Bridge & Iron Company, Chicago, Ill. Tank ladder. 1,916,252; July 4.
Bobroff, Bornett L., Racine, Wis. Signal lamp for automotive vehicles. Des. 90,230; July 4.
Bochmann, Otto, Remscheid-Lennep, Germany, assignor to American Glanzstoff Corporation, New York, N. Y. Spool. 1,916,822; July 4.
Bodde, Theodore, Rochester, N. Y. Dental floss holder. 1,916,653; July 4.
Boeswinkle, Bernard, Woodcliff, assignor to Ferguson Brothers Manufacturing Company, Hoboken, N. J. Folding table. 1,916,823; July 4.
Bohner, Chance E., East Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y. Phase multiplier. 1,916,356; July 4.
Bol, Cornelis, Eindhoven, Netherlands, assignor to Radio Corporation of America. Electric discharge tube. 1,916,408; July 4.
Boldingh, Willem H. (See Bouwers, A., and Boldingh.)
Bonney-Floyd Company, The. (See Edmunds, Glenn E., assignor.)
Book, John H., Lancaster, Pa. Grading machine. 1,917,088; July 4.
Boonton Manufacturing Company. (See Scribner, George K., assignor.)
Boonton Molding Company. (See Scribner, George K., assignor.)
Booth, Clement, Cincinnati, Ohio, assignor, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,916,916; July 4.
Booth, Clement, Cincinnati, Ohio, assignor, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,916,917; July 4.
Bond Electric Corporation. (See Pratt, Goodrich B., assignor.)
Borgwardt, Erich. (See Schoeller, W., and Borgwardt.)
Bornstein, Joseph, Boston, assignor to L. Bornstein, Quincy, Mass. Wiper mechanism for windshields and the like. 1,917,200; July 4.
Bornstein, Joseph, Boston, assignor to L. Bornstein, Quincy, Mass. Wiper mechanism for windshields and the like. 1,917,201; July 4.
Bornstein, Louis. (See Bornstein, Joseph, assignor.)
Borroughs, Joseph N. (See Trewhitt, J. E., and Borroughs.)
Bosch, Robert, Aktiengesellschaft. (See Walther, Wilhelm, assignor.)
Boston Rubber Shoe Company. (See Patten, Ernest L., assignor.)
Bostwick, Lee G., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound translating device. 1,917,013; July 4.
Bouchard, Samuel E., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,916,601; July 4.
Boughton, Willis A., Cambridge, Mass. Inorganic lubricant and producing the same. 1,917,089; July 4.
Bourgeois, Fernand J., and J. J. Parayre, Perpignan, France. Apparatus providing progressive lighting and extinction of articles such as letters, words, phrases, pictures, etc. 1,916,409; July 4.
Bousman, Samuel I., Denver, Colo., assignor, by mesne assignments, to The Door Company, Inc., New York, N. Y. Sedimentation device. 1,916,460; July 4.
Bouwers, Albert, and W. H. Boldingh, assignors to N. V. Philips' Gloeilampenfabricken, Eindhoven, Netherlands. X-ray apparatus. 1,917,090; July 4.
Bowerman, Marvin D., Celeste, Tex. Feed mill. 1,916,190; July 4.
Bowes, George, St. Paul, Minn. Golf playing surface. 1,917,014; July 4.
Boydston, Edith A. (See Smith, Ray C., assignor.)
Boyer, Alex. (See Bertorello, John J., assignor.)
Brace, Porter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alloy. 1,916,410; July 4.
Braddock, William J., Wheeling, W. Va. Acid resisting alloy. 1,916,602; July 4.
Brandt Automatic Cashier Company. (See Brandt, Edward J., assignor.)
Brandt, Edward J., assignor to Brandt Automatic Cashier Company, Watertown, Wis. Money handling machine. 1,917,091; July 4.
Braun, Carl, Inc. (See Williams, Lester J., assignor.)
Braus, Karl, Oppau, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Removal of sulphur compounds from gases. 1,916,824; July 4.
Brewer, John G., New Orleans, La. Brake operating mechanism. 1,916,654; July 4.
Bridge, George L., Clayton, Mo. Coal stove. Des. 90,231; July 4.
Bridgeport Metal Goods Mfg. Co., The. (See Ferris, I. L., and Fullmer, assignors.)
Briggs & Stratton Corporation. (See Nicholson, Stanley W., assignor.)
Bright, Jesse L., assignor to Crown Stove Works, Cicero, Ill. Heater. 1,916,297; July 4.
Bringmann, Irving W., Pittsburgh, assignor to The Aluminum Cooking Utensil Company, New Kensington, Pa. Jacketed vessel. 1,916,751; July 4.
Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Control system. 1,917,092; July 4.
Broadwell, Edward H., receiver. (See Fogarty, Charles J.)
Brohman, Johannah, Los Angeles, Calif. Abdominal supporting belt. 1,916,298; July 4.
Bronson, Budd, Lakewood, assignor to The Ohio Rubber Company, Cleveland, Ohio. Tread member. 1,916,461; July 4.
Brooks, Joseph R., assignor to Wilbur R. Pounder, Chicago, Ill. Pickling tank. 1,916,958; July 4.
Brown, Claude C., Los Angeles, Calif. Liquid fuel consumption indicator. 1,916,555; July 4.
Brown, Harvey E. (See Willett, W. R., and Brown.)
Brown Instrument Company, The. (See Harrison, Thomas R., assignor.)
Brown, Joseph M., et al. (See Peck, John B., assignor.)
Brown and Sharpe Manufacturing Company. (See Bennett, Arthur F., assignor.)
Brownstein, Henry J., Chicago, Ill. Deodorant holder. 1,916,357; July 4.
Bruce, Edmond, Red Bank, and H. T. Friis, Rumson, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Radio direction finder. 1,916,358; July 4.
Brunner Manufacturing Company. (See Pendergast, Maurice H., assignor.)
Bryce, James W., Bloomfield, N. J., assignor to The Tabulating Machine Company. Group indicating system. 1,916,961; July 4.
Bryce, James W., Bloomfield, N. J., assignor to Dayton Scale Company, Dayton, Ohio. Scale. 1,916,962; July 4.
Bubien, Stanley, Kenosha, Wis. Shelf support. 1,916,202; July 4.
Buchanan, Stephen N., assignor to The Thomas & Betts Co., Elizabeth, N. J. Fixture support. 1,916,412; July 4.
Buchner, Max, Hanover-Kleefeld, and F. Gewecke, Wunstorf, near Hanover, Germany. Producing aluminium sulphate. 1,916,603; July 4.
Buckley, John J., Chester, Pa. Device for rotary cutting and the like. 1,916,253; July 4.
Budd Wheel Company. (See Hunt, J. Harold, assignor.)
Buhrke, Alfred E., and A. F. Heeter, Chicago, Ill., assignors to R. H. Buhrke Company. Golf club. 1,916,963; July 4.
Buhrke, R. H., Company. (See Buhrke, A. E., and Heeter, assignors.)
Bullard Company, The. (See Dunn, Thomas E., assignor.)
Bunze, Karl L. (See Smith, E. E., and Bunze.)
Burdick Corporation, The. (See Crosley, George E., assignor.)
Burger, John D., Rye, N. Y. Tobacco pipe. Des. 90,232; July 4.
Burgess Battery Co. (See Storey, Oliver W., assignor.)
Burgess Battery Co. (See Zimmerman, James G., assignor.)
Burke, Robert F., Phoenixville, Pa. Self contained training and exercising oar. 1,916,714; July 4.
Burkhardt, Otto, Flint, assignor to General Motors Corporation, Detroit, Mich. Zero lash valve lifter. 1,916,191; July 4.
Burnelli Aircraft, Ltd., (See Burnelli, Vincent J., assignor.)
Burnelli, Vincent J., New York, N. Y., assignor, by mesne assignments, to Burnelli Aircraft, Ltd., Dover, Del. Amphibian aircraft. 1,916,413; July 4.
Burns, Walter W. (See Eaton, William S., assignor.)
Burroughs, Karl, Watertown, Mass. Separating substances from solutions thereof. 1,916,825; July 4.
Burton, Everett T., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Power amplifier. 1,917,015; July 4.
Burton, Everett T., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Circuit for reducing interference. 1,917,016; July 4.
Butler, Henry W., New York, N. Y., assignor, by mesne assignments, to Fuller Lehigh Company. Steam boiler. 1,916,254; July 4.
Butt, Herbert G., Winthrop, Mass. Clamp. 1,916,556; July 4.
Byerlein, Arthur A., Detroit, Mich., assignor to General Machinery Corporation, Hamilton, Ohio. Press mechanism. 1,916,655; July 4.
"Cabin Crafts." (See Smith, Lawrence P., assignor.)
Cabot, Walter K., Montclair, N. J., assignor to American Can Company, New York, N. Y. Electrical control for can making machinery. 1,916,255; July 4.
Caisson Contracting Company. (See Hart, Linton, and Fletcher, assignors.)
Caisson Contracting Company. (See Powell, Charles L., assignor.)
California Portland Cement Company. (See Dahl, L. A., and Hanna, assignors.)
Calumet Steel Company. (See Carrel, Frank G., assignor.)
Camel Company. (See Beauchamp, Wilfred A., assignor.)
Camel Company. (See Kwake, Joseph A., assignor.)
Cameron, Lewis O., assignor to L. O. Cameron, Washington, D. C. Air deflector. 1,917,093; July 4.
Cameron, Louise W. (See Cameron, Lewis O., assignor.)
Camilli, Guglielmo. (See Blume, L. F., and Camilli.)

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car door. 1,916,557; July 4.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car door. 1,916,558; July 4.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Side door for railway cars. 1,916,559; July 4.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Load discharging car. 1,916,560; July 4.

Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Air brake. 1,916,299; July 4.

Campbell, James. (See Stewart, A. C., and Campbell.)

Camps, Juan P., Sabadell, Spain. Automatic weft replenishing and weft cutting device for looms for weaving. 1,916,359; July 4.

Carbide & Carbon Chemicals Corporation. (See Young, C. O., and Law, assignors.)

Carbonated Lime Processes Limited. (See Harrison, Charles H. and A. H., assignors.)

Carlson, David A., assignor to Art Metal Construction Company, Jamestown, N. Y. Insulated cabinet or receptacle. 1,916,752; July 4.

Carlson, David E., Chicago, Ill. Motor suspension. 1,917,094; July 4.

Carlson, Gorham G., Minneapolis, Minn. Window ventilator. 1,917,186; July 4.

Carlson, Wendell L., Haddonfield, and R. S. Holmes, Haddon Heights, N. J., assignors to General Electric Company. Signal limiting device. 1,917,095; July 4.

Carpenter, Guy L. (See McClenny, R. W., and Carpenter.)

Carr, Kenneth W., Oak Park, assignor to Ditto Incorporated, Chicago, Ill. Stencil paper. 1,916,203; July 4.

Carrel, Frank G., Western Springs, assignor, by mesne assignments, to Calumet Steel Company, Chicago, Ill. Fence post puller. 1,916,463; July 4.

Carrier Engineering Corporation. (See Stacey, A. E., Jr., Lewis and Smith, assignors.)

Carrier Research Corporation. (See Lewis, A. T., and French, assignors.)

Carrier Research Corporation. (See Lewis, Thornton, assignor.)

Carrier Research Corporation. (See Marshall, Henry H., assignor.)

Carroll, Elbert H., West Boylston, Mass. Container for wrenches and the like. 1,916,918; July 4.

Carroll, Fred M. (See Ogsbury, J. S., and Carroll.)

Carroll, Fred M., Yonkers, N. Y., assignor to The Tabulating Machine Company, Endicott, N. Y. Printing mechanism. 1,916,964; July 4.

Carruthers, John G. (See Melcher, Harry G., assignor.)

Carswell, Thomas S., and W. Gump, assignors, by mesne assignments, to Monsanto Chemical Company. N-substituted aryl-sulphonamides and producing same. 1,916,604; July 4.

Carter, George U., Orange, Calif. Tube paste dispenser. 1,916,944; July 4.

Cash Protector Company, The. (See Bell, Ernest E., assignor.)

Cavins, Omar A., Taft, Calif. Bailer. 1,917,211; July 4.

Celanese Corporation of America. (See Martin, H. E., and Elder, assignors.)

Celanese Corporation of America. (See Martin, H. E., Elder, and Rogers, assignors.)

Celanese Corporation of America. (See Schneider, George, assignor.)

Central Trust Company of Illinois et al., executors. (See Friendly, Herbert M., assignor.)

Chamberlin, John W., Akron, Ohio. Method and apparatus for cleaning. 1,917,096; July 4.

Chandeysson, Pierre I., St. Louis, Mo. Homopolar generator. 1,916,256; July 4.

Chantemerle, Joseph L., New York, assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Gyrocompass transmission system. 1,917,017; July 4.

Chapman, Edwin, Catasauqua, assignor to Fuller Lehigh Company, Fullerton, Pa. Drill jig. 1,916,414; July 4.

Chase Companies, The. (See Spring, Fred L. V., assignor.)

Chatterton, Ernest E. (See Vigers, R. W., and Chatterton.)

Chemical Construction Corporation. (See Hechenbleikner, I., and Spangler, assignors.)

Cherry-Burrell Corporation. (See Feldmeier, H., and Wightman, assignors.)

Chicago Bridge & Iron Company. (See Boardman, Harry C., assignor.)

Chicago Electric Manufacturing Company. (See Benson, Bernhart A., assignor.)

Chicago Lock Company. (See Shinn, William C., assignor.)

Chilton Pen Company, The. (See Sypher, Milford G., assignor.)

Chlosta, Anton, assignor to Garton Toy Company, Sheboygan, Wis. Wheel toy. 1,916,879; July 4.

Chobert, Jacques F. G., St.-Etienne, France. Making adjustable spanners. 1,916,605; July 4.

Church, Harold D., assignor to The White Motor Company, Cleveland, Ohio. Transmission. 1,916,853; July 4.

Cincinnati Milling Machine Company, The. (See Muller, Wolfgang C., assignor.)

Clark, Barbara, Boston, Mass. Tunnel toy. 1,917,018; July 4.

Clark Loose Leaf Manufacturing Company. (See Kempr John B., assignor.)

Clarke, Frank, St. Louis, Mo., assignor to Pittsburgh Plate Glass Company. Ornamental glass. 1,916,753; July 4.

Clarke, Walter R., assignor to The Vulcan Radiator Company, Hartford, Conn. Heat transfer unit. 1,916,656; July 4.

Clegg, Dolph O., Bellefontaine, Ohio. Generator regulator for automotive vehicles. 1,917,097; July 4.

Cleveland Fare Box and Four-Way Lock Co. (See Main, Andrew, assignor.)

Cleveland, Robert D., assignor to Taylor Instrument Companies, Rochester, N. Y. Controlling mechanism. 1,916,300; July 4.

Clifford, James J. (See Rubin, S. H., and Clifford.)

Clifton Manufacturing Company. (See Harper, Samuel R., assignor.)

Close, Ford C., New York, N. Y. Compositing pyroxylin. 1,916,880; July 4.

Cofrin, Austin E., Green Bay, Wis. Apparatus and process for making paper. 1,917,098; July 4.

Colby, Allan B., Providence, R. I. Vacuum tube. 1,916,204; July 4.

Cole, Cawthern C., Whittier, Calif. Oil well recording inclinometer. 1,916,301; July 4.

Collins, Joseph L. (See Robinson, P., and Collins.)

Colman, Howard D. (See Stewart, Duncan J., assignor.)

Colson Company, The. (See Pehrsson, Sven J., assignor.)

Columbia Phonograph Company. (See Friebus, Reginald T., assignor.)

Columbia Phonograph Company. (See Somner, William, assignor.)

Columbia Phonograph Company. (See Williams, William E., assignor.)

Connolly, James E., Baltimore, Md. Manufacturing safety razor blades. 1,916,416; July 4.

Conover, Courtney, assignor, by mesne assignments, to Monsanto Chemical Company. Refining crude phthalic anhydride. 1,916,657; July 4.

Consolidated Patentees Corporation. (See Epstein, Albert A., assignor.)

Consortium für Elektrochemische Industrie, G. m. b. H. (See Herrmann, W. O., and Baum, assignors.)

Conti, Eugene, Mount Vernon, assignor to Alexander Herz, New Rochelle, N. Y. Cutting machine. 1,917,187; July 4.

Continental Aircraft Engine Company. (See Insley, Robert, assignor.)

Continental Can Company. (See Wilhelm, Walter V., assignor.)

Cook, Willard G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Crane hoist control. 1,916,415; July 4.

Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. X-ray tube. 1,917,099; July 4.

Copeman Laboratories Company. (See Copeman, Lloyd G., assignor.)

Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Clothespin. 1,916,856; July 4.

Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Closure member and forming and applying. 1,916,857; July 4.

Coppus, Frans H. C., assignor to Anna M. C. Wechsberg, V. L. Wood, and F. H. C. Coppus, trustees, Worcester, Mass. Roundhouse equipment. 1,917,202; July 4.

Corey, Dana D., Seattle, Wash. Differential balancing means. 1,916,715; July 4.

Corey, Elmer O., Norwood, assignor to The Edna Brass Manufacturing Company, Cincinnati, Ohio. Flange oiler. 1,916,826; July 4.

Cornelius, Oscar H. (See Goldhagen, H., and Cornelius.)

Coulson, Donald C., Chicago, Ill., assignor, by mesne assignments, to Oliver United Filters, Inc., San Francisco, Calif. Apparatus and process for making cement. 1,916,417; July 4.

Covey, John E., assignor to Swift and Company, Chicago, Ill. Bacon hanger. 1,916,464; July 4.

Crago, Alan C., deceased, Pittsburgh, Pa.; Samuel D. Crago, Pittsburgh, Pa., administrator, assignor to Westinghouse Electric & Manufacturing Company. Circuit breaker. 1,916,418; July 4.

Crago, Samuel D., administrator. (See Crago, Alan C.)

Crane, Herbert W., Oak Park, Ill. Motor operating switch. 1,916,360; July 4.

Cremer, George F., Milwaukee, Wis., and R. N. Smith, San Francisco, Calif. Piston ring compressors. 1,916,827; July 4.

Crosley, George E., assignor to The Burdick Corporation, Milton, Wis. Therapeutic appliance. 1,916,561; July 4.

Cross, Walter M., Kansas City, Mo., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del. Apparatus for converting petroleum hydrocarbons. 1,916,205; July 4.

Crossley, Alfred, Washington, D. C. Frequency and phase indicating system. 1,916,782; July 4.

Crowfoot, Arthur, et al. (See Ayer, F., Crowfoot, Hérivel, and Sorensen.)

Crown Stove Works. (See Bright, Jesse L., assignor.)

Cummons, Avan B. (See Logan, Everett, assignor.)

Cunningham, James M., San Pedro, Calif., assignor to The Tabulating Machine Company, Endicott, N. Y. Card handling machine. 1,916,965; July 4.

Cunningham, James M., assignor to The Tabulating Machine Company, Endicott, N. Y. Gang punch. 1,916,966; July 4.

Curtin, Leo P., Cranbury, N. J. Recovery of lead directly from lead ore in the form of an acetate of lead. 1,916,302; July 4.

Curtin, Leo P., Cranbury, N. J. Converting roasted lead ores and bag-house dust directly into lead salts. 1,916,303; July 4.

Curtiss Aeroplane & Motor Company. (See Wright, T. P., and Osborn, assignor.)

Curtiss, Glenn H., Country Club Estates, Fla., assignor, by mesne assignments, to Curtiss Aerocar Company, Inc. Opa Locka, Fla. Flexible coupling for vehicular structures. 1,916,967; July 4.

Curtiss, Nathaniel H., Passaic, N. J., assignor to New York Belting and Packing Company, New York, N. Y. Method and apparatus for stripping hose from mandrels. 1,916,361; July 4.

Curtiss Aerocar Company. (See Curtiss, Glenn H., assignor.)

Cutler-Hammer, Inc. (See Evans, Clarence T., assignor.)

Cutler-Hammer, Inc. (See Seeger, Edwin W., assignor.)

Dahl, Louis A., and W. C. Hanna, Colton, assignors to California Portland Cement Company, Los Angeles, Calif. Manufacture of Portland cement. 1,916,716; July 4.

Dahlstrom Metallic Door Company. (See Jacobson, Ludwig G., assignor.)

Dahlstrom Metallic Door Company. (See Rose, Edwin L., assignor.)

Daimler, Karl. (See Steindorf, A., Daimler, and Platz.)

Dana, Charles A., et al. (See Hubach, Gustave, assignor.)

Daniels, Charles E., Atchison, Kans. Apparatus for fitting the ends of piston rings. 1,916,783; July 4.

Daniels, Claude H., Newton Center, Mass. Shoe. Des. 90,233; July 4.

Daniels, Claude H., Newton Center, Mass. Shoe. Des. 90,234; July 4.

Daniels, Claude H., Newton Center, Mass. Shoe. Des. 90,235; July 4.

Darling, L. A., Company. (See Sanzenbacher, Donald L., assignor.)

Daugherty, John, et al. (See Sprake, Edmund T., assignor.)

David, Alexandre A., Montreal, Quebec, Canada. Agitating and disintegrating device. 1,916,192; July 4.

Davidson, Louis R., New York, N. Y. Pneumothorax apparatus. 1,916,658; July 4.

Davis, Raymond S., and W. L. Beauchamp, Indianapolis, Ind., assignors to National Malleable and Steel Castings Company, Cleveland, Ohio. Pipe clamp. 1,916,968; July 4.

Dawson, George L., Alton, assignor to Western Cartridge Company, East Alton, Ill. Process and apparatus for electroplating projectiles. 1,916,465; July 4.

Dawson, Thomas C., Bethlehem, Pa., assignor to Bethlehem Steel Company. Welding electrode and producing same. 1,916,206; July 4.

Dayton Scale Company. (See Bryce, James W., assignor.)

Dayton Scale Company. (See Schumaker, Leo J., assignor.)

De Cardy, Otto. (See Beall, O. H., and de Cardy.)

De Clairmont, Adolph, Los Angeles, Calif. Condenser. 1,917,212; July 4.

Decker, Sherwin K., and G. Roberts, Los Angeles, Calif., assignors to International Business Machines Corporation, New York, N. Y. Accounting means. 1,916,969; July 4.

De Francisco, Marshall, and A. T. Kurowski, Brooklyn, N. Y. Automatic film developing machine. 1,916,207; July 4.

Degener, Gustave O., San Francisco, Calif., assignor to Royal Typewriter Company, Inc., New York, N. Y. Manifolding device. 1,917,100; July 4.

De Giers, Clarence A., Forest Hills, assignor to The Liquidometer Corporation, Long Island City, N. Y. Safety electric switch. 1,916,717; July 4.

De Gloria, John J., San Leandro, Calif. Robbery proof cashier's window. 1,916,828; July 4.

Degn Corporation. (See Hough, Arthur, assignor.)

De Hart, Ellis J., Saginaw, Mich. Mirror. Des. 90,236; July 4.

Dehler, Franz, New York, N. Y. Pile wire spoon holder for two edge cutting blades. 1,917,019; July 4.

DeLaval Separator Company, The. (See Hulbert, John L., assignor.)

DeLaval Separator Company, The. (See Strezynski, George J., assignor.)

Delco Products Corporation. (See Aseltine, Fred E., assignor.)

De Leo, Nickolas, Troy, N. Y. Lens for automobile head lamps. Des. 90,237; July 4.

Dellinger, Martin C. (See Kulp, Harry W., and Dellinger.)

De Moos, Charles, Fort Lee, assignor to Pathe Exchange, Inc., Bound Brook, N. J. Automatic synchronising mechanism for film printing machines. 1,916,919; July 4.

De Niederhäusern, Georges, assignor to the Firm Durand & Huguenin S. A., Basel, Switzerland. Production of fast dyeings with ester-salts of leuco vat-dyestuffs. 1,917,101; July 4.

Denning, Paul S., assignor to F. E. Schundler, Joliet, Ill. Coating for walls of asphalt containers. 1,916,970; July 4.

Denning, Paul S., assignor to F. E. Schundler, Joliet, Ill. High temperature cement. 1,916,971; July 4.

Dent, Harry M., Buffalo, assignor to General Plastics, Inc., North Tonawanda, N. Y. Composite article and bonding with resin solutions. 1,917,020; July 4.

Dent, John, National Military Home, Los Angeles County, Calif. Loom rewarping attachment, automatic warp tension plate and sectional guide. 1,916,862; July 4.

De Pree, Lee. (See Stewart, L. C., and De Pree.)

De Vine, Daniel C. (See Jessop, G. A., and De Vine.)

Didier-Werke Aktiengesellschaft. (See Ackermann, Hugo, assignor.)

Diehl, John C., Erie, Pa., assignor to American Meter Company, New York, N. Y. Orifice meter. 1,916,920; July 4.

Dierschke, Alfred, Essen, Germany, assignor, by mesne assignments, to The Kopper Company of Delaware, Pittburgh, Pa. Dry cooling of coke. 1,916,718; July 4.

Dinsmore, Clarence B. (See Bacon, E. F., and Dinsmore.)

Dion, Julian, Newark, N. J. Extension ladder. 1,916,208; July 4.

Ditto Incorporated. (See Carr, Kenneth W., assignor.)

Dobson, William A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,917,021; July 4.

Dodge, Adiel Y., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,916,881; July 4.

Dodge, John M., Rye, and P. Oakland, Howard Beach, N. Y. Sealing ring. 1,916,659; July 4.

Dome, Robert B., Schenectady, N. Y., assignor to General Electric Company. Frequency modulation. 1,917,102; July 4.

Donaldson Manufacturing Company Limited. (See Hadden, William J., assignor.)

Dorr Company, The. (See Bousman, Samuel I., assignor.)

Dorr Company, The. (See Slade, James V., assignor.)

Dougan, Anna M., Olathe, Kans. Thumb protector. 1,916,921; July 4.

Douglas, Fredric E., assignor to Draper Corporation, Hopedale, Mass. Intermittently operating thread cutting mechanism. 1,916,754; July 4.

Doushkess, William N., Easton, Pa., assignor, by mesne assignments, to Milton C. Johnson Company, New York, N. Y. Safety paper. 1,916,606; July 4.

Dover, George W. and D. S., Edgewood, assignor to Dovercraft Company, Inc., Providence, R. I. Drapery suspension device for curtains. 1,916,719; July 4.

Dovercraft Company, Inc. (See Dover, G. W. and D. S., assignors.)

Dow Chemical Company, The. (See Dow, Herbert H., assignor.)

Dow Chemical Company, The. (See Stewart, L. C., and De Pree, assignors.)

Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Removing iodine from dispersion in a liquid medium. 1,916,922; July 4.

Dowdell, Ruth E., Columbus, Ohio. Stacking fixture. 1,916,755; July 4.

Downingtown Manufacturing Company. (See Street, Edward T., assignor.)

Dräger, Alexander B., deceased, by Elfriede Dräger, executrix, assignor to H. O. Dräger, Lubeck, Germany. Breathing apparatus. 1,917,182; July 4.

Dräger, Elfriede, executrix. (See Dräger, Alexander B.)

Dräger, Heinrich O. (See Dräger, Alexander B., assignor.)

Draper Corporation. (See Douglas, Frederic E., assignor.)

Dressler, Philip d'H., assignor to Swindell-Dressler Corporation, Pittsburgh, Pa. Tunnel kiln. 1,916,363; July 4.

Dreyfus, Ludvig A., assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Commutating electric machine. 1,916,462; July 4.

Droste, Walter, and M. Werner, Wiesdorf-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Weather resistant coating material. 1,916,607; July 4.

Drummond, William E., River Forest, Ill. Casement window operator and lock. 1,916,562; July 4.

Dubina, John J., Cicero, Ill. Air supply device. 1,916,257; July 4.

Dubonnet, André, Neuilly sur Seine, France. Suspension for vehicles. Re18,885; July 4.

Duckman, Harry. (See Smith, Charles L., assignor.)

Duff, Charles L., Columbus, Ohio. Exercising machine. 1,916,660; July 4.

Du Mont, Allen B., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Automatic testing apparatus. 1,916,364; July 4.

Dunlop, James, Park Ridge, Ill., assignor to Westinghouse Electric Elevator Company. Elevator guide shoe. 1,916,365; July 4.

Dunlop Rubber Company. (See Tauber, S., and Fischmann, assignors.)

Dunn, Thomas E., Bridgeport, Conn., assignor to The Bullard Company. Electrochemical process for cleaning metal. 1,917,022; July 4.

Duplate Corporation. (See Wright, Thomas G., assignor.)

Du Pont, E. I., de Nemours & Company. (See Gubelmann, I., Weiland, and Stallmann, assignors.)
Du Pont, E. I., de Nemours & Company. (See Meigs, Frederick M., assignor.)
Durand & Huguenin S. A. (See De Niederhäusern, Georges, assignor.)
Dyrr, Jacob V., Bell, Calif. Intergeared offset disk harrow. 1,916,720; July 4.
Dyrr, Jacob V., Bell, Calif. Intergeared offset disk harrow. 1,916,721; July 4.
Earl, Schuyler H., assignor to Gleason Works, Rochester, N. Y. Apparatus for truing face mill cutters. 1,917,103; July 4.
Earle, Theodore, Denver, Colo. Milling machine. 1,916,858; July 4.
Eaton, William S., Sag Harbor, N. Y., assignor of one-half to W. W. Burns, Washington, D. C. Electrodepositing chromium. 1,917,188; July 4.
Eckles, John W., San Antonio, Tex. Pipe pusher. 1,916,466; July 4.
Edge, Walter S., assignor to National Steel Fabric Company, Pittsburgh, Pa. Construction of concrete pavements. 1,916,563; July 4.
Edna Brass Manufacturing Company, The. (See Corey, Elmer O., assignor.)
Edmunds, Glenn E., assignor to The Bonney-Floyd Company, Columbus, Ohio. Mine car brake mechanism. 1,916,784; July 4.
Edmunds, Glenn E., assignor to The Bonney-Floyd Company, Columbus, Ohio. Mine car brake mechanism. 1,916,785; July 4.
Edwards, Frank W., Chicago, Ill., and N. M. Barker, Lakewood, Ohio, assignors, by mesne assignments, to The Ohio Injector Company of Illinois, Chicago, Ill. Rail and flange oiler. 1,917,189; July 4.
Edwards, Frank W., Chicago, Ill., and F. B. Farnsworth, Wadsworth, Ohio, assignors to The Ohio Injector Company of Illinois, Chicago, Ill. Mechanical lubricator with individual motor drive. 1,917,190; July 4.
Edwards, Frank W., assignor to The Ohio Injector Company of Illinois, Chicago, Ill. Lubrication assembly for locomotives. 1,917,191; July 4.
Edwards, Lloyd B. (See Beeman, E. R., and Edwards.)
Edwards, Paul G., Bloomfield, N. J., assignor to American Telephone and Telegraph Company. Testing system. 1,916,304; July 4.
Eger, Ernst, assignor to Morgan and Wright, Detroit, Mich. Tension regulator. 1,916,467; July 4.
Ehinger, William E., assignor to The National Machinery Co., Tiffin, Ohio. Apparatus for handling forgings. 1,916,608; July 4.
Ehlers, Hans. (See Reitz, H., and Ehlers.)
Ehrlich, Louis B., assignor to The Electric Auto-Lite Company, Toledo, Ohio. Starting motor switch. 1,917,104; July 4.
Eich, Charles L., Fresno, Calif. Piston lathe. 1,916,193; July 4.
Eisenstadt, Norman, New York, N. Y. Cord embroidered textile fabric. Des. 90,238; July 4.
Elder, James W. (See Martin, H. E., and Elder.)
Elder, James W. (See Martin, H. E., Elder, and Rogers.)
Electric Auto-Lite Company, The. (See Ehrlich, Louis B., assignor.)
Electrogear Corporation. (See Neuland, Alfons H., assignor.)
Electrolux Servel Corporation. (See Köhler, Peter, assignor.)
Electrometallurgical Company. (See Becket, Frederick M., assignor.)
Elite Manufacturing Company. (See Harbaugh, B. W., and Smith, assignors.)
Elliott Addressing Machine Company. (See Elliott, Harmon P., assignor.)
Elliott Company. (See Good, Paul E., assignor.)
Elliott, Harmon P., Watertown, Mass., assignor to Elliott Addressing Machine Company. Addressing and printing machine. 1,916,564; July 4.
Elliott, Seth N., Marine, Ill. Clutch device. 1,916,786; July 4.
Elston, Charles C., Pasadena, Calif. Traffic guard. 1,916,787; July 4.
Elwell, George Henry, New Haven, assignor to The Wire Novelty Manufacturing Company, West Haven, Conn. Button loop. 1,916,829; July 4.
Emmons, Arthur N., assignor to The Porter-Cable Machine Company, Syracuse, N. Y. Abrading machine. Des. 90,239; July 4.
Emmons, Richard C., Madison, Wis., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Universal stage for microscopes. 1,916,609; July 4.
Ende, Frank M., Los Angeles, Calif. Diathermy. 1,916,722; July 4.
Ender, Sidney, Brooklyn, N. Y. Reflector. Des. 90,240; July 4.
Engineering Products Corporation, Inc. (See Thomson, F. B., and Spring, assignors.)
Enterprise Manufacturing Company, The. (See Pflueger, Charles T., assignor.)
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
Epstein, Albert A., assignor to Consolidated Patentees Corporation, New York, N. Y. Tea extract paste. 1,916,468; July 4.
Erie Dyeing & Processing Co., The. (See Kreis, Joseph D., assignor.)
Errig, William F., Philadelphia, and G. M. Pfundt, Churchville, Pa. Tire groover. 1,916,258; July 4.
Esau, Abraham, Jena, Germany. Device for generating short waves. 1,917,105; July 4.
Esselen, William B., Millis, Mass. Plant stake. 1,916,305; July 4.
Ettinger, Joe J., assignor to Zimmer Manufacturing Company, Warsaw, Ind. Clavicle splint. 1,917,106; July 4.
Etzkorn, Rudolf, Oberbruch, Regierungsbezirk Aachen, Germany, assignor to American Glanzstoff Corporation, New York, N. Y. Centrifuge. 1,916,830; July 4.
Etzkorn, Rudolf, Oberbruch, Germany, assignor to American Glanzstoff Corporation, New York, N. Y. Manufacture of artificial silk. 1,916,831; July 4.
Eule, Martin. (See Miller, H., and Eule.)
Evans, Clarence T., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Circuit controlling device. 1,916,565; July 4.
Evans, Rollo E., Emporia, Kans. Windshield heater. 1,917,023; July 4.
Everhot Manufacturing Company. (See Flothow, Alfred C., assignor.)
Evershed Vignoles, Limited. (See Midworth, Cyril, assignor.)
Ewert, Otto F., Genoa City, Wis. Hob. 1,916,259; July 4.
Fageol, Frank R. and W. B., assignors to Twin Coach Company, Kent, Ohio. Eight wheel rail car. 1,916,469; July 4.
Fageol, Frank R. and W. B., assignors to Twin Coach Company, Kent, Ohio. Railway rolling stock. 1,916,470; July 4.
Fageol, William B. (See Fageol, Frank R. and W. B.)
Fallert, Clifford D., St. Louis, Mo., assignor to Robert Gaylor Incorporated. Display stand. 1,916,471; July 4.
Farnsworth, Fordyce V. (See Edwards, F. W., and Farnsworth.)
Fearnside, Ralph S. (See Hepburn, W. M., and Fearnside.)
Fehl, John, and A. Belcher, Jersey City, N. J. Hospital bedside unit. 1,916,832; July 4.
Feldmeier, Harvey, and R. J. Wightman, assignors to Cherry-Burrell Corporation, Little Falls, N. Y. Pump. 1,916,756; July 4.
Ferguson Brothers Manufacturing Company. (See Boeswinkle, Bernard, assignor.)
Ferguson, Harry, Belfast, Ireland. Tractor-drawn agricultural implement. 1,916,945; July 4.
Ferrar, Bernard, New York, N. Y. Slip-sheeter. 1,916,723; July 4.
Forrest, Henry O., Andover, Mass., and P. K. Frolich, Elizabeth, N. J., assignors to National Synthetic Corporation, Painesville, Ohio. Controlling the temperature of chemically reacting liquids. 1,916,473; July 4.
Forrest, Henry O., Andover, Mass., and P. K. Frolich, Elizabeth, N. J., assignors to National Synthetic Corporation, Painesville, Ohio. Oxidizing naphthenes. 1,916,923; July 4.
Ferris, Eugene C., et al., executor. (See Ferris, Henry L.)
Ferris, Henry L., deceased; H. J. Ferris and E. C. Ferris, executors, assignors to Starline, Inc., Harvard, Ill. Stall front. 1,916,972; July 4.
Ferris, Howard J., et al., executor. (See Ferris, Henry L.)
Ferris, Isaac L., and G. C. Fullmer, assignors to The Bridgeport Metal Goods Mfg. Co., Bridgeport, Conn. Candle flash light. 1,916,472; July 4.
Fibre Conduit Company, The. (See Keller, John P., assignor.)
Fischmann, Ladislaus. (See Tauber, S., and Fischmann.)
Fisher, Alfred, Elizabeth, N. J., assignor to Universal Oil Products Company, Chicago, Ill. Carbonaceous fuel and producing same. 1,916,306; July 4.
Fisk Rubber Company, The, et al. (See Hubach, Gustave.)
Fitz Gerald, Alan S., Wynnewood, Pa., assignor to General Electric Company. Electric power converting apparatus. 1,917,107; July 4.
Fitzsimmons & McAllister, Inc. (See Hamilton, Fred A., assignor.)
Finch, Frederic J., assignor to The Metal Specialty Company, Cincinnati, Ohio. Cigarette dispenser. 1,916,757; July 4.
Fletcher, Gordon. (See Hart, L., and Fletcher.)
Flexer, Isadore, Philadelphia, Pa. Awning hanger. 1,916,788; July 4.
Flint Kote Corporation, The. (See Kirschbraun, Lester, assignor.)
Flothow, Alfred C., assignor to Everhot Manufacturing Company, Maywood, Ill. Branding and inking device. 1,916,661; July 4.
Fluor, Peter E., Anaheim, assignor to The Fluor Corporation, Ltd., Los Angeles, Calif. Atmospheric cooling tower. 1,916,724; July 4.
Fluor Corporation, The. (See Fluor, Peter E., assignor.)
Fogarty, Charles J., assignor to E. H. Broadwell, receiver of the Westfield Manufacturing Company, Westfield, Mass. Bicycle frame or the like. Des. 90,241; July 4.
Folk, Joseph, assignor to U. S. Slicing Machine Company, La Porte, Ind. Assembling device for slicing machines. 1,916,566; July 4.
Food Machinery Corporation. (See Roberts, F. B., and Huntington, assignors.)

Food Machinery Corporation. (See Thompson, Albert R., assignor.)
Forbes, Donald, Vero Beach, Fla. Folding receptacle. 1,916,662; July 4.
Fordham, George, Powellton, W. Va. Garment. 1,916,789; July 4.
Forges & Ateliers de Constructions Electriques de Jeumont Societe Anonyme. (See Lejuene, Fernand, assignor.)
Foss, William A., assignor to The American Fork & Hoe Company, Cleveland, Ohio. Fishing rod handle. 1,916,924; July 4.
Foxboro Company, The. (See Bristol, Edgar H., assignor.)
Fox Furnace Company, The. (See Suppes, Max M., assignor.)
Franke, Heinrich, Hamburg-Altona, assignor to C. H. F. Müller Aktiengesellschaft, Hamburg-Fuhlsbuttel, Germany. Method of and system for taking X-ray photographs. 1,917,108; July 4.
Fredenburgh, Mark N., East Orange, N. J., assignor to Westinghouse Lamp Company. Lamp manufacture. 1,916,366; July 4.
Freeborn, John W. (See Johnson, F. A., and Freeborn.)
French, Donald E. (See Lewis, A. T., and French.)
French, Fred W. and L. H., and H. B. Rathbun, assignors to The American Brass Company, Waterbury, Conn. Copper and copper alloy tube and making. 1,916,474; July 4.
French, Leon H. (See French, Fred W. and L. H., and Rathbun.)
Freyn Engineering Company. (See Bigelow, Charles G., assignor.)
Freyn Engineering Company. (See Hayes, J. C., jr., and Bigelow, assignors.)
Friden, Carl M. F., Oakland, assignor to Marchant Calculating Machine Company, Emeryville, Calif. Calculating machine. 1,916,610; July 4.
Friden, Carl M. F., Oakland, assignor to Marchant Calculating Machine Company, Emeryville, Calif. Calculating machine. 1,916,611; July 4.
Friebus, Reginald T., Montclair, N. J., assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Sound reproducing means and method. 1,916,973; July 4.
Friendly, Herbert M., deceased, Chicago, Ill.; M. S. Friendly and Central Trust Company of Illinois, executors. Telephone system. 1,917,024; July 4.
Friendly, Milton S., et al., executors. (See Friendly, Herbert M.)
Frier-Hartog, Incorporated. (See Hartog, Paul D., assignor.)
Frigidaire Corporation. (See Midgley, Thomas, jr., assignor.)
Friis, Harold T. (See Bruce, E., and Friis.)
Fröhlich, A. (See Wendt, B., Bincer, and Fröhlich.)
Frolich, Per K. (See Forrest, H. O., and Frolich.)
Frost, Donald F., Rockport, Mass., assignor to General Electric Company. Oxy-arc cutting nozzle. 1,917,109; July 4.
Frosted Food Company. (See Birdseye, Clarence, assignor.)
Frowein, Friedrich. (See Jaenecke, E., and Frowein.)
Früh, Conrad J., Zurich, Switzerland. Process for wet-treatment, especially for washing textile goods in the form of fabrics. 1,916,946; July 4.
Fuller, Homer H., and E. M. Jones, Atlanta, Ga.; said Jones assignor to said Fuller. Match dispensing apparatus. 1,916,974; July 4.
Fuller Lehigh Company. (See Butler, Henry W., assignor.)
Fuller Lehigh Company. (See Chapman, Edwin, assignor.)
Fullmer, Giles C. (See Ferris, I. L., and Fullmer.)
Fulton Company, The. (See Thorp, Joel R., assignor.)
Furlong, Roland A., assignor to The Yawman & Erbe Manufacturing Company, Rochester, N. Y. Visible index. 1,916,209; July 4.
Furlong, Roland A., assignor to The Yawman & Erbe Manufacturing Company, Rochester, N. Y. Visible index. 1,916,210; July 4.
Gadd, Lorenzo G., Hollister, Calif. Earth working implement. 1,916,833; July 4.
Gahler, Heinrich, Dresden-Altstadt, Germany. Meter for hot water. 1,916,211; July 4.
Gaines, Harlow D. (See MacLean, G., and Sisson, assignors.)
Gallagher, Edward J., 3d. (See Kauffman, G. C., and Gallagher.)
Gallimore, Keith F., and R. M. Woytych, assignors to Giddings & Lewis Machine Tool Co., Fond du Lac, Wis. Indicator locating device. 1,916,212; July 4.
Galt, Hugh B. G., Norfolk, Va. Support. 1,916,612; July 4.
Garton Toy Company. (See Chlosta, Anton, assignor.)
Gasolene Storage Patents (Proprietary) Limited. (See Martyn, J. F., and Leggett, assignors.)
Gasoline Products Company. (See Cross, Walter M., assignor.)
Gast, George A., Chicago, Ill., assignor, by mesne assignments, to J. F. Meyer, Pasadena, Calif. Amusement machine cabinet. Des. 90,242; July 4.
Gay, Arthur W., Reading, Ohio. Full circle retreader. 1,917,110; July 4.
Gay, Fraser W., Newark, N. J. Power transmission system. 1,916,925; July 4.
Gay, Fraser W., Newark, N. J. Arcing ground suppressor. 1,916,926; July 4.
Gay, Fraser W., Newark, N. J. Switching a spare line. 1,916,927; July 4.
Gaylord, Robert, Incorporated. (See Fallert, Clifford D., assignor.)
Gaynor, John J., assignor to Horix Manufacturing Company, Pittsburgh, Pa. Container capping machine. 1,917,025; July 4.
Gazzolo, Samuel D. (See Madsen, A. W., and Gazzolo.)
Geertsen, Nelson, Chicago, Ill., assignor to American Can Company, New York, N. Y. Collar and can assembling machine. 1,916,260; July 4.
Gehrke, Max. (See Schwenk, E., Gehrke, and Aichner.)
General Aniline Works, Inc. (See Herz, R., and Zerweck, assignors.)
General Aniline Works, Inc. (See Hilger, Josef, assignor.)
General Aniline Works, Inc. (See Kracker, Herbert, assignor.)
General Aniline Works, Inc. (See Mersch, Josef, assignor.)
General Aniline Works, Inc. (See Wagner, H., and Kracker, assignors.)
General Chemical Company. (See Wilbur, Ralph C., assignor.)
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Alexanderson, E. F. W., Alger, and Nixdorff, assignors.)
General Electric Company. (See Anderson, Arvid E., assignor.)
General Electric Company. (See Blume, L. F., and Camilli, assignors.)
General Electric Company. (See Carlson, W. L., and Holmes, assignors.)
General Electric Company. (See Coolidge, William D., assignor.)
General Electric Company. (See Dome, Robert B., assignor.)
General Electric Company. (See Fitz Gerald, Alan S., assignor.)
General Electric Company. (See Frost, Donald F., assignor.)
General Electric Company. (See Gunther, Clarence A., assignor.)
General Electric Company. (See Hammond, J. H., jr., and Alexanderson, assignor.)
General Electric Company. (See Kirch, Ernst, assignor.)
General Electric Company. (See Nixdorff, S. P., and Alexanderson, assignors.)
General Electric Company. (See Rankin, William K., assignor.)
General Electric Company. (See Richardson, Henry M., assignor.)
General Electric Company. (See Sams, J. A., and Shaw, assignors.)
General Electric Company. (See Stephens, H. O., and Kierstead, assignors.)
General Electric Company. (See Swisher, Thomas H., assignor.)
General Electric Company. (See Warner, D. F., and Pollard, assignors.)
General Engineering Company et al. (See Heins, George J., assignor.)
General Machinery Corporation. (See Byerlein, Arthur A., assignor.)
General Motors Corporation. (See Burkhardt, Otto, assignor.)
General Motors Corporation. (See Landers, Charles, assignor.)
General Motors Corporation. (See Manning, William H., assignor.)
General Motors Corporation. (See McCuen, Charles L., assignor.)
General Motors Corporation. (See O'Brien, Frank, assignor.)
General Motors Corporation. (See Summers, Caleb E., assignor.)
General Motors Corporation. (See Tenney, Perry L., assignor.)
General Motors Corporation. (See Wilson, Austin B., assignor.)
General Motors Research Corporation. (See Godley, Charles E., assignor.)
General Plastics, Inc. (See Dent, Harry M., assignor.)
General Zeolite Company. (See Hughes, W. J., and Green, assignors.)
George, Frank N., Buffalo, N. Y. Air controlling mechanism for paint-filtering apparatus. 1,916,758; July 4.
Gewecke, Fritz. (See Buchner, M., and Gewecke.)
Gibbs, Walter A., Chester, Pa. Trap for catching animals alive. 1,917,111; July 4.
Gibson Patent Container, Ltd., The. (See Page, John E., assignor.)
Giddings & Lewis Machine Tool Co. (See Gallimore, K. F., and Woytych, assignors.)
Giese, August F., jr., Gary, Ind. Tapping hole drilling apparatus for blast furnaces. 1,916,261; July 4.
Gilbert, William L., Clock Company. (See Hodge, Albert P., assignor.)
Gillette Safety Razor Company. (See Witter, Lawrie L., assignor.)

Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Battery charging regulation. 1,916,307; July 4.

Girtanner, Alexander, Bayside, N. Y., assignor to Automatic Lighter Corporation, Stamford, Conn. Cigarette dispensing device. 1,917,026; July 4.

Gleason Works. (See Earl, Schuyler H., assignor.)

Gleason Works. (See Wolfe, Bernard J., assignor.)

Glover, John, Chicago, Ill. Mop construction. 1,916,213; July 4.

Glover, John, Chicago, Ill. Collapsible mop head. 1,916,214; July 4.

Glover, John, Chicago, Ill. Mop. 1,916,834; July 4.

Glowacki, John B., Chicago, Ill. Renewable fuse element. Re18,886; July 4.

Godley, Charles E., Ypsilanti, assignor to General Motors Research Corporation, Detroit, Mich. Lamp socket. 1,916,194; July 4.

Goldhagen, Harry, New York, N. Y., and O. H. Cornelius, Maspeth, N. Y. Pipe joint compound. 1,917,027; July 4.

Goldstein, Samuel, Boston, Mass. Hanger. 1,916,835; July 4.

Goletz, Albert, Crescent, Ohio, assignor to Phillips Mine and Mill Supply Company, Pittsburgh, Pa. Drawbar construction for mine cars and the like. 1,917,028; July 4.

Good, Paul E., Riverton, N. J., assignor to Elliott Company, Jeannette, Pa. Multistage rotary compressor. 1,917,029; July 4.

Good, Robert, Washington, Pa., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Method and apparatus for feeding batch mixtures to furnaces. 1,916,262; July 4.

Goodrich, B. F., Company, The. (See Reed, Marion C., assignor.)

Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. 1,916,263; July 4.

Gotteman, Joseph M., Paris, France, assignor to William Willhelm Co., Inc., New York, N. Y. Textile fabric or similar article. Des. 90,243; July 4.

Gracey, James G., St. Louis, Mo. Combined advertising and display device. 1,917,030; July 4.

Graf und Co., Verpackungs-Maschinen. (See Heinrich, Max, assignor.)

Grant, Edwin J., Los Angeles, Calif. Apparatus for producing light boundaries. 1,916,567; July 4.

Grant, Martin H., Los Angeles, Calif. Wear resisting cushion heel. 1,916,264; July 4.

Gray, Charles B., Millbourne, Pa. Cutting machine. 1,916,419; July 4.

Green, Jacob M. (See Green, Morris A. and J. M.)

Green, Morris A. and J. M., New York, N. Y. Scarf. 1,916,507; July 4.

Green, Walter H. (See Hughes, W. J., and Green.)

Green, Walter H., Chicago, Ill., assignor, by mesne assignments, to The Permutit Company, New York, N. Y. Softening water. 1,916,367; July 4.

Greene, Curtis, San Francisco, Calif. Collapsible strut. 1,916,882; July 4.

Greenleaf, Carl K., Palo Alto, Calif. Caster. 1,916,663; July 4.

Greenspan, Elsie, assignor to Seneca Silk Company, Inc., New York, N. Y. Textile fabric. Des. 90,274; July 4.

Greer, Edward B., Minneapolis, Minn. Dump wagon. 1,916,928; July 4.

Greig, James W. (See Toncray, M. H., and Greig.)

Grieco, Michael A., assignor of forty per cent to E. L. Johnson, Chicago, Ill. Building block. 1,916,308; July 4.

Griswold, Walter R., assignor to Packard Motor Car Company, Detroit, Mich. Internal combustion engine. 1,916,309; July 4.

Griswold, Walter R., assignor to Packard Motor Car Company, Detroit, Mich. Internal combustion engine. 1,916,310; July 4.

Grob, Hugo, Berlin, Germany. Electric regulation. 1,916,975; July 4.

Groff, Emory L. (See Hoffman, Charles T., assignor.)

Gross, Charles M. (See Le Clair, T. G., and Gross.)

Grossi, Frank, Mamaroneck, N. Y. Turf restorator. 1,916,508; July 4.

Gruetter, John R., Cleveland, Ohio, assignor to The Liquid Carbonic Corporation, Chicago, Ill. Bottle brushing apparatus. 1,916,568; July 4.

Guardian Trust Company, The, trustee. (See Page, John E., assignor.)

Guastavino, R., Company. (See Guastavino, Rafael, assignor.)

Guastavino, Rafael, Bay Shore, assignor to R. Guastavino Company, New York, N. Y. Acoustical product. 1,917,112; July 4.

Gubelmann, Ivan, H. J. Weiland, and O. Stallmann, South Milwaukee, Wis., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company. Compound of the diphenyl-methane series and preparing the same. 1,916,215; July 4.

Gubelmann, Ivan, H. J. Weiland, and O. Stallmann, South Milwaukee, Wis., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company. 2-amino-10-anthrones and preparing same. 1,916,216; July 4.

Gudge, Benjamin J. (See Ott, E. H., and Gudge.)

Guenser, John B., Chaska, Minn. Poultry appliance. 1,916,790; July 4.

Guhl, Maclyn, Forest Hills, assignor to William Willhelm Co., Inc., New York, N. Y. Textile fabric or similar article. Des. 90,244; July 4.

Guide Lamp Corporation. (See Koubek, John L., assignor.)

Gump, William. (See Carswell, T. S., and Gump.)

Gunkel, Paul O., Welland, Ontario, Canada, assignor to Joseph Stokes Rubber Company, Trenton, N. J. Mold press. 1,916,368; July 4.

Gunther, Clarence A., Haddonfield, N. J., assignor to General Electric Company. Superregenerative receiver. 1,917,113; July 4.

Gutmann, Ferdinand, & Co. (See Gutmann, Jesse, assignor.)

Gutmann, Jesse, Babylon, assignor to Ferdinand Gutmann & Co., Brooklyn, N. Y. Container closure. 1,916,976; July 4.

Gutmann, Jesse, Babylon, assignor to Ferdinand Gutmann & Co., Brooklyn, N. Y. Bottle closure. 1,916,977; July 4.

Gutteridge, Leonard. (See Robertson, J. H., and Gutteridge.)

Gyro Process Company. (See Wagner, C. R., and Stahl, assignors.)

Haan, Joseph, New York, N. Y. Candy package. Des. 90,245; July 4.

Hacker, Larkin A., Vernon, Tex. Stalk cutter. 1,916,618; July 4.

Hackethal, Paul F. (See Jackson, W. M. S., and Hackethal.)

Hadden, William J., assignor to Donaldson Manufacturing Company Limited, Glasgow, Scotland. Golf club. 1,916,791; July 4.

Hadden, William J., assignor to Donaldson Manufacturing Company Limited, Glasgow, Scotland. Golf club head. 1,916,792; July 4.

Haendel, Walter, Berlin, Germany. Machine for impressing patterns on materials. 1,916,947; July 4.

Haeuber, Hans, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of shaped articles from masses containing silicon. 1,916,836; July 4.

Hall, Charles H., Freeport, N. Y. Molded container closure. Des. 90,246; July 4.

Hall, Elisha W., Marshfield Hills, Mass. Buffing wheel. 1,916,759; July 4.

Hall, Randolph F., Rochester, N. Y. Airplane. 1,916,475; July 4.

Haller, Carl, Detroit, Mich. Rotating furnace. 1,916,569; July 4.

Hamel, Frank W., Detroit, Mich. Foundry flask. 1,916,217; July 4.

Hamilton, Fred A., assignor of one-half to Fitzsimmons & McAllister, Inc., Albany, N. Y. Combustion apparatus. 1,917,031; July 4.

Hammarsjo, Erik A., Rockford, Ill. Shoe press. 1,916,265; July 4.

Hammer, Samuel, assignor to United Metal Box Co. Inc., Brooklyn, N. Y. Wall cabinet mounting. 1,916,509; July 4.

Hammond, John H., jr., Gloucester, Mass., and E. F. W. Alexanderson, Schenectady, N. Y.; said Alexanderson assignor to General Electric Company. Radiant energy guiding system for airplanes. 1,917,114; July 4.

Hanna, Wilson C. (See Dahl, L. A., and Hanna.)

Hansen, Edmund H., New York, N. Y. Electric system for recording and reproducing sound. 1,916,510; July 4.

Hansen, Herman, Chicago, Ill. Box. 1,917,115; July 4.

Hanser, Charles A., Detroit, and E. A. Lockwood, Royal Oak, assignors to American Electrical Heater Company, Detroit, Mich. Thermostat. 1,916,671; July 4.

Harbaugh, Brent W., and C. J. Smith, assignors to Elite Manufacturing Company, Ashland, Ohio. Pushing and pulling implement. 1,916,476; July 4.

Harbour, Arthur L., and H. Albrecht, Portland, Oreg. Lawn edger. 1,916,725; July 4.

Harnett, A. De Vere, Racine, Wis. Rowing machine. 1,916,883; July 4.

Harper, Samuel R., Waco, Tex., assignor to Clifton Manufacturing Company. Handle extension. 1,916,793; July 4.

Harper, William, jr., Port Washington, N. Y. Piston. 1,916,978; July 4.

Harpster, Clyde C., Madison Township, Richland County, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Liquid infusion device. 1,916,369; July 4.

Harris, Marcus. (See Hersfelder, H. L., and Harris.)

Harrison, Arthur H. (See Harrison, Charles H. and A. H.)

Harrison, Arthur P., Takoma Park, Md., assignor to Standard Brands Incorporated, New York, N. Y. Device and supplying foam suppressing substances. 1,916,614; July 4.

Harrison, Charles H., Iron Acton, England, and A. H. Harrison, Gold Pines, Ontario, Canada, assignors to Carbonated Lime Processes Limited. Cellular synthetic carbonate product. 1,916,949; July 4.

Harrison, Monroe, Chicago, Ill. Portable dispensing car or analogous device. Des. 90,247; July 4.

Harrison, Thomas R., Wyncote, assignor to The Brown Instrument Company, Philadelphia, Pa. Control apparatus. 1,916,420; July 4.

Hart, Linton, Englewood, N. J., and G. Fletcher, assignors to Caisson Contracting Company, New York, N. Y. Lining for molds for concrete columns. 1,916,726; July 4.

Hart Manufacturing Company, The. (See Landin, Carl A., assignor.)

Hartford-Empire Company. (See Honiss, William T., assignor.)

Hartford-Empire Company. (See Howard, George E., assignor.)

Hartford-Empire Company. (See Wadman, Harold A., assignor.)

Hartman, Carl H., Toledo, Ohio, assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Cutter for severing bag lengths from paper tubes. 1,916,664; July 4.

Hartmann, Otto H. (See Trede, H., and Hartmann.)

Hartog, Paul D., St. Louis, Mo., assignor, by mesne assignments, to Frier-Hartog, Incorporated. Grease pump. 1,916,948; July 4.

Hasbrouck, David M., Jersey City, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Welding torch body or handle. Des. 90,248; July 4.

Hasbrouck, David M., Jersey City, N. J., assignor to the Air Reduction Company, Incorporated, New York, N. Y. Cutting torch handle. Des. 90,249; July 4.

Hasbrouck, Louis, Springfield, Mass. Smoker's apparatus. 1,916,727; July 4.

Hastings, Walter M., Lawrence, Mass. Undergarment. 1,917,213; July 4.

Haveles, Evangel A., Los Angeles, Calif. Napkin holder. 1,916,615; July 4.

Haven, Louis, Seattle, Wash. Collar construction. 1,916,794; July 4.

Hawley, Kent A., assignor to Locke Insulator Corporation, Baltimore, Md. Releasing clamp. 1,916,950; July 4.

Hayden, Arthur C., Brockton, Mass. Machine for inspecting, splicing and rewinding motion picture films. 1,916,311; July 4.

Hayes, John C., jr., and C. G. Bigelow, assignors to Freyn Engineering Company, Chicago, Ill. Checker support. 1,916,370; July 4.

Hazel-Atlas Glass Co. (See Good, Robert, assignor.)

Hazel-Atlas Glass Company. (See Smith, Frasier, assignor.)

Hazell, Eardley, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Rubber cement. 1,916,421; July 4.

Heald Machine Company, The. (See Booth, Clement, assignor.)

Healy, Edward J., Baltimore, Md. Race-starting gate. 1,916,951; July 4.

Hechenbellkner, Ingenuin, Charlotte, N. C., and S. F. Spangler, Philadelphia, Pa., assignors to Chemical Construction Corporation, Charlotte, N. C. Nitric acid concentration. 1,916,837; July 4.

Hecker, Edward, assignor to Seneca Silk Co., Inc., New York, N. Y. Textile fabric. Des. 90,275; July 4.

Heeter, Allen F. (See Buhrke, A. E., and Heeter.)

Heider, Henry J., Carroll, Iowa. Stock feeder. 1,916,570; July 4.

Heinrich, Max, Berlin-Pankow, assignor to Firm Graf und Co., Verpackungs-Maschinen, Berlin, Germany. Photographic printing paper. 1,917,032; July 4.

Heinz, George J., Roosevelt, assignor of one-third to T. J. Perry, Brooklyn, N. Y., and one-third to General Engineering Company, Newark, N. J. Fluid strainer. 1,917,203; July 4.

Heitger, Frank H., deceased; M. G. Heitger, administratrix, Flint, Mich. Charge forming and feeding means for internal combustion engines. 1,916,952; July 4.

Heitger, Mattie G., administratrix. (See Heitger, Frank H.)

Heller, B., & Company. (See Heller, Benjamin, assignor.)

Heller, Benjamin, assignor to B. Heller & Company, Chicago, Ill. Container. 1,916,859; July 4.

Helmond, William F., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,916,371; July 4.

Henry, Israel H., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone exchange system. 1,916,760; July 4.

Henry, Israel H., East Orange, and R. E. Hersey, Madison, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone exchange system. 1,916,761; July 4.

Hentschel, Ernest R., deceased, Washington, D. C.; J. Olson, administrator, assignor to Wired Radio, Inc., New York, N. Y. Volume control system for radio-receivers. 1,916,795; July 4.

Hentschke, Karl, Berlin-Charlottenburg, and O. Vom Bovert, Dresden, assignors, by mesne assignments, to Samsonwerk G. m. b. H., Berlin, Germany. Fluid distributor device for fluid driving gears. 1,917,116; July 4.

Hepburn, William M., and R. S. Fearnside, assignors to Surface Combustion Corporation, Toledo, Ohio. Wire heating apparatus. 1,916,372; July 4.

Hérivel, Harold T., et al. (See Ayer, F., Crowfoot, Hérivel, and Sorensen.)

Herrmann, Willy O., and E. Baum, assignors to Consortium für Elektrochemische Industrie, G. m. b. H., Munich, Germany. Producing asymmetrical dichloracetone. 1,916,979; July 4.

Hersey, Ralph E. (See Henry, I. H., and Hersey.)

Herz, Alexander. (See Conti, Eugene, assignor.)

Herz, Alfred, assignor of one-half to E. O. Schweitzer, Chicago, Ill. Electric switching device. 1,916,616; July 4.

Herz, Richard, Frankfort-on-the-Main, and W. Zerweck, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Manufacturing orange vat dyestuffs. 1,916,812; July 4.

Hersfelder, Harold L., New York, N. Y., and M. Harris, Newark, N. J.; said Harris assignor to said Hersfelder. Lamp or similar article. Des. 90,250; July 4.

Hess, Fred. (See Le Bontillier, H. W., and Hess.)

Hess, Howard P., Chester, N. Y. Combination hot and cold water connection. 1,917,033; July 4.

Heston, Allen L., Columbiana, Ohio, assignor to United States Rubber Company, New York, N. Y. Tire shaping machine. 1,916,422; July 4.

Hiatt, Enos B., Denver, Colo., assignor to Ovenda Corporation, Chicago, Ill. Basket turner. 1,916,838; July 4.

Hibbert, Harold, Montreal, Quebec, Canada. Polymerisation product from divinyl ether and related compounds and producing same. 1,916,423; July 4.

Hickok Manufacturing Company. (See Mix, Edwin S., assignor.)

Higgins, Charles G., London, England. Folding hood for vehicles. 1,915,313; July 4.

Hilger, Josef, Cologne-Mulheim, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Isocyanates. 1,916,314; July 4.

Hill Independent Manufacturing Company. (See Rantsch, Edward J., assignor.)

Hill, Thomas, Detroit, Mich. Storage battery terminal. 1,916,728; July 4.

Hill, William H. (See Rose, H. J., and Hill.)

Hillgren, Carl. (See Hillgren, James and C.)

Hillgren, James, and C. Hillgren, San Diego, Calif., assignor to J. C. Manufacturing Co. Doorlock. 1,916,266; July 4.

Hindes, Howard W., assignor to The Washburn Company, Worcester, Mass. Handle. Des. 90,251; July 4.

Hines, William W., New York, N. Y. Bandage for the eyes. 1,917,117; July 4.

Hinsch, Walter H., assignor to Locomotive Firebox Company, Chicago, Ill. Spark arrester. 1,916,762; July 4.

Hinshaw, Foster A. (See Och, H. G., and Hinshaw.)

Hirschhorn, Harold L., New York, N. Y., assignor to Standard Steel Sections, Inc. Road rail form. 1,916,796; July 4.

Hislop, Charles A., Seamill, West Kilbride, Scotland, assignor to Imperial Chemical Industries, Limited. Shot gun cartridge. 1,917,118; July 4.

Hobson, Frank M. (See Tibbals, C. L., and Hobson.)

Hodge, Albert P., assignor to William L. Gilbert Clock Company, Winsted, Conn. Time controlling switch device. 1,916,665; July 4.

Hodgson, John L., A. Ivanoff, and G. P. E. Howard, Luton, assignors to George Kent, Limited, London, England. Automatic control apparatus. 1,916,477; July 4.

Hoffman, Charles T., assignor of one-half to E. L. Groff, Washington, D. C. Automatically defrosting refrigerating units. 1,916,315; July 4.

Hoffman, Laurence N., assignor to The Shelby Metal Products Company, Shelby, Ohio. Doorcheck. 1,916,571; July 4.

Hoffman Specialty Company. (See Simpson, William K., assignor.)

Hoffman Specialty Company. (See Stewart, Charles W., assignor.)

Hohlweg, Walter, Vienna, Austria. Obtaining efficient germ-gland substances in a water-soluble condition. 1,916,478; July 4.

Hohmann, Richard K., Brooklyn, assignor to Frederick Osann Company, New York, N. Y. Sewing machine. 1,916,860; July 4.

Holden, William H. T., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Battery control circuit. 1,916,316; July 4.

Holland, Cyrus J., Chicago, Ill. Volute spring structure for lateral motion trucks. 1,916,317; July 4.

Hollenbach, Chas., Inc. (See Scheynost, Rudolph, assignor.)

Hollerith, Charles, Jackson, assignor, by mesne assignments, to Ternstedt Manufacturing Company, Detroit, Mich. Hood latch. 1,916,511; July 4.

Hollman, Peter I., assignor to Geo. D. Roper Corporation, Rockford, Ill. Gas burner. 1,916,572; July 4.

Holmes, Henry S., New York, N. Y., assignor, by mesne assignments, to Metropolitan Engineering Company. Welding. 1,916,373; July 4.

Holmes, Ralph S. (See Carlson, W. L., and Holmes.)

Holmquist, Albert, Holmquist, S. Dak. Mixing machine. 1,917,119; July 4.

Honigbaum, Harry H., New York, N. Y. Smoker's article. 1,916,729; July 4.

Honiss, William T., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for supplying glass to suction machines. 1,916,666; July 4.

Hoogendyk, Frederik V. R., New York, N. Y. Bed reader. 1,916,667; July 4.

Hopkins, James G. (See Mosher, Evert, assignor.)

Horix Manufacturing Company. (See Gaynor, John J., assignor.)

Horle, Lawrence C. F., Newark, N. J. Inductive coupling arrangement for electron tube circuits. 1,917,204; July 4.

Horle, Lawrence C. F., Newark, N. J. Antenna system for sleet melting, and conductor therefor. 1,917,205; July 4.

Horn, Charles W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Filter system. 1,916,424; July 4.

Hörner, Friedrich, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Preparing antimonates. 1,916,797; July 4.

Horton, Erwin C. (See Hueber, H., and Horton.)

Horvitz, Gerald J., Woodmere, N. Y. Recovery of acid gas. 1,916,980; July 4.

Hottel, Louis W., Indianapolis, Ind. Molding press for hollow articles. 1,916,798; July 4.

Hough, Arthur, Passaic, N. J., assignor to Degu Corporation. Manufacture of smokeless powder propellants. 1,916,763; July 4.

Howard, George E., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Method and apparatus for conditioning molten glass. 1,916,668; July 4.

Howard, Giles P. B. (See Hodgson, J. L., Ivanoff, and Howard.)

Howard, Stanley R., East Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Packaging machine. 1,916,425; July 4.

Howell, Bruce G., Harlingen, Tex., and I. F. Stone, Arlington, Va. Pipe coupling. 1,916,479; July 4.

Howell, Chester E., jr., Orange, N. J., assignor to F. M. Howell & Co., Elmira, N. Y. Folding box. 1,917,120; July 4.

Howell, F. M., & Co. (See Howell, Chester E., jr., assignor.)

Hubach, Gustave, Springfield, Mass., assignor to C. A. Dana and J. B. Pierce, receivers of The Fisk Rubber Company, Chicopee Falls, Mass. Tire. Des. 90,252; July 4.

Hubbard and Company. (See McIlrath, Arnold, assignor.)

Huber, Frank X., assignor of one-eighth to O. H. Zielke and one-eighth to E. F. Zielke, Glidden, Wis. Internal combustion engine. 1,916,318; July 4.

Hudson Motor Car Company. (See Toncray, M. H., and Greig, assignors.)

Hueber, Henry, assignor to Trico Products Corporation, Buffalo, N. Y. Spare tire mirror. 1,917,192; July 4.

Hueber, Henry, assignor to Trico Products Corporation, Buffalo, N. Y. Horn system. 1,917,194; July 4.

Hueber, Henry, Buffalo, and E. C. Horton, Hamburg, assignors to Trico Products Corporation, Buffalo, N. Y. Vacuum stabiliser. 1,917,198; July 4.

Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for high temperature distillation. 1,916,319; July 4.

Hughes, James F., New York, N. Y. Mouthpiece for cigarettes. 1,916,799; July 4.

Hughes, Walter J., and W. H. Green, assignors to General Zeolite Company, Chicago, Ill. Boiler control. 1,916,426; July 4.

Hughson, Edwin B., Big Indian, N. Y. Filter. 1,917,121; July 4.

Hulbert, John L., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Milking machine teat cup. 1,916,839; July 4.

Hultgren, Charles R., assignor to S. Karpen & Bros., Chicago, Ill. Reversible seat or chair. 1,916,800; July 4.

Hunt, J. Harold, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Demountable spoked wheel. 1,917,034; July 4.

Hunt, Sylvester H., Norfolk, Va. Stapling machine. 1,917,122; July 4.

Hunter, Thomas M., East Orange, N. J. Rotary welding transformer. 1,916,218; July 4.

Huntington, Willis G. (See Roberts, F. B., and Huntington.)

Hush, Foss C., Lincoln, Nebr. Meter box. 1,916,219; July 4.

Hutchings, Le Roi E., assignor to Remington Rand Inc., Buffalo, N. Y. Card holder. 1,917,123; July 4.

Hutto Engineering Company. (See Hutto, Marsden C., assignor.)

Hutto, Marsden C., assignor to Hutto Engineering Company, Inc., Detroit, Mich. Apparatus for grinding gun barrels and cylindrical surfaces. 1,916,267; July 4.

Hydraulik Gesellschaft mit beschrankter. (See Korver, Friedrich W., assignor.)

Hynes & Cox Electric Corporation. (See Hynes, L. P., and Williams, assignors.)

Hynes, Lee P., and H. A. Williams, assignor to Hynes & Cox Electric Corporation, Albany, N. Y. Water storage heater. 1,916,861; July 4.

I. G. Farbenindustrie Aktiengesellschaft. (See Braus, Karl, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Droste, W., and Werner, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Haeuber, Hans, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Hörner, Friedrich, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Jaenecke, E., and Frowein, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Klippel, H., and Jaenecke, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Krause, Hans, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Ley, P., and Teichman, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Meldert, F., and Schatz, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Michel, Richard, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Punge, Wilhelm, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Steindorff, A. Damiler, and Platz, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Wietzel, G., and Pauckner, assignors.)

Imperial Chemical Industries Limited. (See Baird, William, assignor.)

Imperial Chemical Industries Limited. (See Hislop, Charles A., assignor.)

Imperial Tobacco Company of Canada Limited. (See Somerville, Frank J., assignor.)

Independent Pneumatic Tool Company. (See Norling, Reinhold A., assignor.)

Insley, Robert, Detroit, Mich., assignor, by mesne assignments, to Continental Aircraft Engine Company. Internal combustion engine. 1,917,206; July 4.

International Bitumenoil Corporation. (See Vandegrift, J. N., and Postel, assignor.)

International Business Machines Corporation. (See Decker, S. K., and Roberts, assignors.)

International Communications Laboratories Inc. (See Miller, Herman P. jr., assignor.)

International Communications Laboratories, Inc. (See Vernam, Gilbert S., assignor.)

International Communications Laboratories, Inc. (See Wood, Harry, assignor.)

International Nickel Company, The. (See Pilling, Norman B., assignor.)

International Precipitation Company. (See Schmidt, Walter A., assignor.)

International Safety Lock Nut Corporation. (See Mernier, Eugene, assignor.)

Ivanoff, Alexander. (See Hodgson, J. L., Ivanoff, and Howard.)

Ives, Herbert E., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Stereoscopic picture with exaggerated or diminished relief. 1,916,320; July 4.

Jack, William, assignor of nine-tenths to D. & J. Tullis, Limited, Clydebank, Scotland. Laundry press. 1,917,124; July 4.

Jackson, Lucile J. P., administratrix. (See Jackson, W. M. S., and Hackethal.)

Jackson, William M. S., deceased, and P. F. Hackethal, Detroit, Mich.; L. J. P. Jackson, administratrix of said William M. S. Jackson, assignors to National Bank of Germantown & Trust Company, trustee, Philadelphia, Pa. Lubricator for internal combustion engines. 1,917,125; July 4.

Jacobs, Oliver B., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Circuit for reducing interference. 1,917,035; July 4.

Jacobsen, Armand P., assignor to William Sayler, Cranbury, N. J. Cattle hitch. 1,916,953; July 4.

Jacobson, Ludwig G., assignor to Dahlstrom Metallic Door Company, Jamestown, N. Y. Entrance inclosure door actuating mechanism. 1,916,480; July 4.

Jacoby, Louis, Dallas, Tex. Foot throttle for motor vehicles. 1,917,036; July 4.

Jacques, Fernando O., Providence, R. I. Tooth crown and Making the same. 1,916,321; July 4.

Jaenecke, Ernst. (See Klippel, H., and Jaenecke.)

Jaenecke, Ernst, Heidelberg, and F. Frowein, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of mixed fertilizers. 1,916,617; July 4.

Jakob, Anton, Gary, Ind. Railway tie extracting device. 1,916,884; July 4.

James, Frederick W. (See Nelson, N. P., and James.)

Jameson, Ronald P., assignor to The Vigilant Automatic Fire Alarm Company Limited, Christchurch, New Zealand. Electrical fire alarm. 1,916,481; July 4.

Janssen, Henry, assignor of one-half to G. F. Kuhn, Philadelphia, Pa. Meat packing device. 1,916,220; July 4.

Janssen, Henry, assignor of one-half to G. Kuhn, Philadelphia, Pa. Airtight meat cooking container and processor. 1,916,221; July 4.

Jarmin, James B., assignor to Servis Equipment Company, Dallas, Tex. Road machine. 1,916,222; July 4.

Jefferson Electric Company. (See Armstrong, Fred S., assignor.)

Jeffery Manufacturing Company, The. (See Levin, Nils D., assignor.)

Jenkins, Charles F., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Armature winding. 1,916,374; July 4.

Jennings, William A., assignor to Rapid Tool Corporation, Raytown, Mo. Cylinder grinding stand. 1,916,618; July 4.

Jessen, Jesse C., Los Angeles, Calif. Fuel package for heaters. 1,916,573; July 4.

Jessop, George A., and D. C. De Vine, assignors to S. Morgan Smith Company, York, Pa. Manufacture of Francis runners for hydraulic turbines. 1,917,037; July 4.

Johanson, Gustav H. (See Wilhjelm, C., and Johanson.)

Johns-Manville Corporation. (See Rolfs, Eugene L., assignor.)

Johns-Manville Corporation. (See Schaeffer, Elmer R., assignor.)

Johnson, Bror A. E., Alsten, assignor to Aktiebolaget Gerh. Atehns Mekaniska Verkstad, Stockholm, Sweden. Mandrel for box-making machines. 1,917,126; July 4.

Johnson, Edwin A. (See Ayres, R. O., Kroll, and Johnson.)

Johnson, Frederick A., and J. W. Freeborn, assignors to Ruddy Manufacturing Company, Limited, Brantford, Ontario, Canada. Beverage dispenser. Des. 90,253; July 4.

Johnson, Kenneth B., Kew Gardens, N. Y. Ash tray and support therefor. 1,916,619; July 4.

Johnson, Milton C., Company. (See Doushkess, William N., assignor.)

Johnson, Orville C., Aurora, Ill. Door closure. 1,917,127; July 4.

Johnson, Raymond L. (See Grieco, Michael A., assignor.)

Johnson, Warren, New Orleans, La. Pavement and paving unit. 1,916,620; July 4.

Jones, Ellis L., Long Island City, assignor, by mesne assignments, to American Sealcone Corporation, New York, N. Y. Receptacle making apparatus. 1,916,981; July 4.

Jones, Elmer M. (See Fuller, Homer H., and Jones.)

Jones, Lemuel R., Petersburg, Va. Plastic product and producing same. 1,917,038; July 4.

Jones, Margaret, Milwaukee, Wis. Fly destroyer. 1,916,982; July 4.

Jones, Robert F. (See McKean, J. G., and Jones.)

Jones, Roy S., assignor to Barber Manufacturing Company, Anderson, Ind. Fixed size spring unit and forming same. 1,916,512; July 4.

Jones, Tilman M., Huntington Park, Calif. Dispensing device. 1,916,513; July 4.

Julian & Kokenge Co., The. (See Stock, Otto F., assignor.)

Kabushiki Kaisha Sumitomo Seikosho. (See Matsunawa, S., Nozawa, and Suzuki, assignors.)

Kalin, Walter, Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound translating device. 1,916,223; July 4.

Kane, Michael J. (See Anderson, R. W., and Kane.)

Karpen, S., & Bros. (See Hultgren, Charles R., assignor.)

Karplus, Eduard, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Self-contained oscillator tube. 1,916,224; July 4.

Kaufman, Ludwig, Berlin-Wilmersdorf, Germany. Triaryl stibine solution. 1,917,207; July 4.

Kauffman, George C., Philadelphia, and E. J. Gallagher, 3d, Doylestown, Pa. Fastening device. 1,916,225; July 4.

Keinath, George. (See Schrader, C., Keinath, Polin, and Ritz.)

Keller, John P., assignor to The Fibre Conduit Company, Orangeburg, N. Y. Roller drier for cylindrical bodies and handling such bodies therein. 1,916,840; July 4.

Kemp, John B., Ridgewood, N. J., assignor to Clark Loose Leaf Manufacturing Company. Pad holder. 1,916,730; July 4.

Kennedy Car Liner & Bag Co., The. (See Thoms, C. A., and Smith, assignors.)

Kennedy, Harry E. (See Mulvany, H. A., and Kennedy.)

Kent, George, Limited. (See Hodgson, J. L., Ivanoff, and Howard, assignors.)

Kershaw, Grindrod, Whitworth, Rochdale, England. Tube holder. 1,916,862; July 4.

Key Boiler Equipment Company. (See Key, Frederick E., assignor.)

Key, Frederick E., assignor to Key Boiler Equipment Company, East St. Louis, Mo. Making gill ring tubes. 1,916,574; July 4.

Khayat, Elias, Brooklyn, N. Y. Control switch for electric sewing machines. 1,916,268; July 4.

Kierstead, Friend H. (See Stephens, H. O., and Kierstead.)

Kimble Glass Company. (See Anastor, Charles G., assignor.)

Kingsbury, Harry T., assignor to Kingsbury Mfg. Company, Keene, N. H. Unit for toy vehicles. 1,917,128; July 4.

Kingsbury Mfg. Company. (See Kingsbury, Harry T., assignor.)

Kingsbury, William A., Hayward, Calif., assignor to Sprague Sells Corporation, Hoopeston, Ill. Apparatus for treating and peeling fruit. 1,916,269; July 4.

Kingston, Frederick S., Warren, Ohio, assignor, by mesne assignments, to The Oakwood Electrical Manufacturing Company. Induction motor. 1,916,270; July 4.

Kinzie, Charles J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Zirconium, silicon and alkali metal solutions and making same. 1,916,226; July 4.

Kirch, Ernst, Berlin-Oberschoneweide, Germany, assignor to General Electric Company. Temperature indicator. 1,917,129; July 4.

Kirschbraun, Lester, Leonia, N. J., assignor, by mesne assignments, to The Flint Kote Corporation, Boston, Mass. Process and apparatus for producing emulsions. 1,916,885; July 4.

Kiss, James, Bethlehem, Pa., assignor to Kwicway Money Changer Corporation. Change dispensing mechanism. 1,916,271; July 4.

Kistler, Harry L., and P. J. Trompeter, jr., Peru, Ill. Subgrade planer. 1,917,130; July 4.

Kitchen Art Foods, Inc. (See Lorensen, Heinz G., assignor.)

Kjaer, Viggo A., Copenhagen, Denmark. Yieldable gearing. 1,916,482; July 4.

Klein, Paul, Budapest, Hungary, and A. Ssegvari, assignors to American Anode Inc., Akron, Ohio. Cleaning molds. 1,917,039; July 4.

Klippel, Hermann, Ludwigshafen-on-the-Rhine, and E. Jaenecke, Heidelberg, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Ammonium nitrate-sulphite fertilizer salt and making same. 1,916,841; July 4.

Knickerbocker, George S., assignor of one-half to J. G. Bennett, Minneapolis, Minn. Sled with endless track drive. 1,916,375; July 4.

Knitter, Elmer T., San Francisco, Calif. Hot stamp printing machine. 1,916,575; July 4.

Knudsen, Robert, Martinez, Calif. Automatic hair-clipper. 1,916,731; July 4.

Knutsen, Knut A., Ljan, Norway. Sorting perforated cards. 1,916,801; July 4.

Köhler, Ludwig, Cologne, Germany. Artificial incisor. 1,917,131; July 4.

Köhler, Peter, Stockholm, Sweden, assignor, by mesne assignments, to Electrolux Corporation, New York, N. Y. Absorption type refrigerating apparatus. 1,916,886; July 4.

Köhler, Walter, Munich, Germany. Dentist's model. 1,916,376; July 4.

Koppers Company of Delaware, The. (See Dierschke, Alfred, assignor.)

Koppers Company of Delaware, The. (See Van Ackeren, Joseph, assignor.)

Koppers Company of Delaware, The. (See Rose, H. J., and Hill, assignors.)

Körver, Friedrich W., assignor to Hydraulik Gesellschaft mit beschränkter, Duisburg, Germany. Pressure responsive electric switch. 1,916,427; July 4.

Koubek, John L., assignor to Guide Lamp Corporation, Anderson, Ind. Auxiliary driving light. 1,916,514; July 4.

Kovacs, Nikolaus, Vienna, Austria. Medical syringe. 1,916,428; July 4.

Kracker, Herbert. (See Wagner, H., and Kracker.)

Kracker, Herbert, Frankfort-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Azo dyestuff and fiber dyed therewith. 1,916,621; July 4.

Kraft, Norman, Wilmette, assignor to Kraft-Phenix Cheese Corporation, Chicago, Ill. Package making machine. 1,916,515; July 4.

Kraft-Phenix Cheese Corporation. (See Kraft, Norman, assignor.)

Krause, Hans, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Making porous material. 1,916,954; July 4.

Kreamer, Lorne, Tonawanda, N. Y. Brake tester. 1,916,622; July 4.

Kreis, Joseph D., assignor to The Erie Dyeing & Processing Co., Cleveland, Ohio. Mechanical movement. 1,916,377; July 4.

Krichbaum, Ora, Delaware, Ohio. Inflatable article. 1,916,483; July 4.

Kroll, Adolphe Victor, Luxemburg, Luxemburg. Method and apparatus for agglomerating metalliferous masses. 1,916,863; July 4.

Kroll, Frederick A. (See Ayres, R. O., Kroll, and Johnson.)

Kuhn, Frank, and L. H. Thomas, assignors to American Electrical Heater Company, Detroit, Mich. Thermostat. 1,916,669; July 4.

Kuhn, Frank, and L. H. Thomas, assignors to American Electrical Heater Company, Detroit, Mich. Thermostatic switch assembly. 1,916,670; July 4.

Kuhn, Frank, and L. H. Thomas, assignors to American Electrical Heater Company, Detroit, Mich. Subassembly for electrical heaters. 1,916,672; July 4.

Kuhn, Frank, and L. H. Thomas, assignors to American Electrical Heater Company, Detroit, Mich. Electric iron. 1,916,673; July 4.

Kuhn, Gustave F. (See Janssen, Henry, assignor.)

Kulp, Harry W., and M. C. Dellinger, Lancaster, Pa. Shouldered stud bolt riveting or setting die. 1,916,623; July 4.

Kulp, Harry W., and M. C. Dellinger, Lancaster, Pa. Positioning tool. 1,917,183; July 4.

Kunstdünger-Patent-Verwertungs-Aktiengesellschaft. (See Larsson, Markus, assignor.)

Kunz, Albert, and C.-F. Perret, LeLocle, Switzerland. Mounting an anchor bridge in watch movements. 1,916,955; July 4.

Kurowski, Alfred T. (See De Francisco, M., and Kurowski.)
Kwake, Joseph A., assignor to Camel Company, Chicago, Ill. Lift mechanism. 1,916,674; July 4.
Kwicway Money Changer Corporation. (See Kiss, James, assignor.)
Kwicway Money Changer Corporation of Delaware. (See Bachardy, Stephen J., assignor.)
Labombarde, Elie W., Nashua, N. H. Paper receptacle. 1,917,132; July 4.
Lake, Clair D. (See Page, R. E., and Lake.)
Lake, James Edward, Evanston, Ill. Aircraft. 1,916,956; July 4.
Lamson Company, The. (See Beach, Albert L., assignor.)
Lander, Gerald, Vineland, Ontario, Canada. Cream separator for milk bottles. 1,916,842; July 4.
Landers, Charles, Lansing, assignor to General Motors Corporation, Detroit, Mich. Broaching machine. 1,916,516; July 4.
Landin, Carl A., assignor to The Hart Manufacturing Company, Hartford, Conn. Switch. 1,916,675; July 4.
Landsittel, Frederick C., Columbus, Ohio. Bookholder. 1,916,576; July 4.
Lange, George, Brooklyn, N. Y. Holder and needle for knitting machines. 1,916,676; July 4.
Langewiesche, Wilhelm, Berlin-Tempelhof, assignor of fifty per cent to Radio Patents Corporation, New York, N. Y. High frequency transmitter. 1,916,843; July 4.
Lantz, Owen S., South Essex, Mass. Rudder mounting. 1,916,802; July 4.
Larsson, Markus, Berlin, Germany, assignor to Kunstdünger-Patent-Verwertungs,Aktiengesellschaft, Glarus, Switzerland. Producing mixed fertilizers. 1,916,429; July 4.
Larsson, Markus, Berlin, Germany, assignor to Kunstdünger-Patent-Verwertungs-Aktiengesellschaft, Glarus, Switzerland. Leaching phosphate rock. 1,916,431; July 4.
Larue, Emile, Lausanne, Switzerland. Water pressure cleaner. 1,916,430; July 4.
Laurenson, Robert M., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. 1,916,764; July 4.
Law, George H. (See Young, Charles O., and Law.)
Le Boutillier, Henry W., Drexel Hill, and F. Hess, assignors to The Selas Company, Philadelphia, Pa. Mixing and compressing machine. 1,917,040; July 4.
Le Clair, Titus G., and C. M. Gross, Chicago, Ill. Rotary switch and switching system. 1,916,844; July 4.
Lee, Alvin J. (See Moran, J. L., and Lee.)
Lee, Edward W., assignor of one-fourth to W. Starks, Jacksonville, Fla. Sharpener for hair clipper blades. 1,916,929; July 4.
Leeds & Northrup Company. (See Williams, Albert J., jr., assignor.)
Legge, Alfred G., Brockton, Mass. Shoe form. 1,917,041; July 4.
Leggett, Robert J. (See Martyn, J. F., and Leggett.)
Lehn, John U. (See Zahm, J. D., and Lehn.)
Lejeune, Fernand, assignor to Forges & Ateliers de Constructions Electriques de Jeumont, Societe Anonyme, Paris, France. Direct current motor control system. 1,916,484; July 4.
Leland Electric Company, The. (See Leland, George H., assignor.)
Leland, George H., assignor of one-half to The Leland Electric Company, Dayton, Ohio. Strip delivery mechanism for punch presses and the like. 1,916,378; July 4.
Leland, George H., assignor of one-half to The Leland Electric Company, Dayton, Ohio. Punch press mechanism and automatic stop therefor. 1,916,379; July 4.
Leland, George H., assignor of one-half to The Leland Electric Company, Dayton, Ohio. Synchronously operated punch press. 1,916,380; July 4.
Leland, George H., assignor to The Leland Electric Company, Dayton, Ohio. Automatic feed controlling mechanism for punch presses and the like. 1,916,845; July 4.
Leonard Electric Mfg. Company. (See Allgeier, Frederick W., assignor.)
Lesoine, John A., et al. (See Smith, Ernest L., assignor.)
Le Tourneau, Robert G., Stockton, Calif. Spooling device for drum cables. 1,916,732; July 4.
Lettini, Donato A., Elizabeth, N. J. Clutch. 1,917,133; July 4.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Conveyer. 1,917,134; July 4.
Lewis, Alexander T., and D. E. French, Merion, Pa., assignors, by mesne assignments, to Carrier Research Corporation, Newark, N. J. Heating coil. 1,917,042; July 4.
Lewis, Ernest H., Verdun, Quebec, Canada. Position and altitude finder. 1,916,765; July 4.
Lewis, Leo L. (See Stacey, A. E., jr., Lewis, and Smith.)
Lewis, Thornton, Cynwyd, Pa., assignor, by mesne assignments, to Carrier Research Corporation, Newark, N. J. Cooling unit. 1,917,043; July 4.
Ley, Paul, and L. Teichmann, Leverkusen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of sodium sulphide. 1,916,803; July 4.
Light, Charles A., Brooklyn, N. Y. Self locking slip under button. 1,916,733; July 4.
Lindey, Louis A., Brooklyn, N. Y. Electric lamp attachment. 1,916,322; July 4.
Liquid Carbonic Corporation. (See Gruetter, John R., assignor.)
Liquidometer Corporation, The. (See de Giers, Clarence A., assignor.)
Littell, James, Maracaibo, Venezuela. Well apparatus. 1,917,135; July 4.
Lloyd, John, North Braddock, Pa. Preventing the formation of scale. 1,916,677; July 4.
Locke Insulator Corporation. (See Hawley, Kent A., assignor.)
Lockwood, Erwin A. (See Hanser, C. A., and Lockwood.)
Locomotive Finished Material Company, The. (See Muchnic, Henry E., assignor.)
Locomotive Firebox Company. (See Hinsch, Walter H., assignor.)
Loewe, Bernhard, Berlin, Germany. Manufacturing highly emissive cathodes. 1,917,044; July 4.
Loftin, Edward H., trustee. (See White, Sidney Y., assignor.)
Logan, Everett, assignor of one-half to A. B. Cummons, of Portland, Oreg. Automatic locator recorder. 1,916,734; July 4.
Long, Eldridge E., assignor of one-half to A. Zeller, Troutdale, Oreg. Lifting jack. 1,916,517; July 4.
Lonza-Werke Elektrochemische Fabriken G. m. b. H., the Firm. (See Stöhr, Josef, assignor.)
Lord & Burnham Company. (See Terbune, Edwin W., assignor.)
Lorenz, C., Aktiengesellschaft. (See Karplus, Eduard, assignor.)
Lorenzen, Heins G., assignor to Kitchen Art Foods, Inc., Chicago, Ill. Merchandise display. 1,916,227; July 4.
Lorimer, George W., Troy, Ohio, assignor, by mesne assignments, to Black Products Company, Chicago, Ill. Gas generation. 1,916,577; July 4.
Lounsbury, Harvey J., Glen Ellyn, assignor to W. H. Miner, Inc., Chicago, Ill. Railway draft rigging. 1,916,846; July 4.
Lowe, Lazarus, et al. (See Sprake, Edmund T., assignor.)
Lowther, William P., Merced, Calif. Tank filler-cap lock. 1,916,518; July 4.
Lucia, Louis V., Rome, N. Y., assignor to Revere Copper and Brass Incorporated. Percolator pump. 1,916,228; July 4.
Ludwig, John E., Miami, Fla. Booster. 1,916,823; July 4.
Lyness, William S., Minneapolis, Minn. Pipe coupling. 1,916,930; July 4.
Lyon Metal Products, Incorporated. (See Bales, James E., assignor.)
Lytel, Harvey M., Los Angeles, Calif. High pressure relief valve. 1,916,766; July 4.
MacLean, Gordon, Flushing, and E. G. Sisson, jr., assignors of one-third to H. D. Gaines, New York, N. Y. Liquid fuel. 1,916,735; July 4.
Macomic, Chester A., Chicago, Ill. Carriage drive mechanism. 1,916,272; July 4.
Maddock, Joe H., Idaho Falls, Idaho. Footall training dummy. 1,917,208; July 4.
Madsen, Alfred W., and S. D. Gazzolo, assignors to National Carton Company, Joliet, Ill. Carton for cylindrical objects. 1,916,519; July 4.
Magyar Rugyantaarugyar Reszvenytarsasag. (See Turchanyi, Ladislas, assignor.)
Main, Andrew, assignor, by mesne assignments, to Cleveland Fare Box and Four-Way Lock Co., Cleveland, Ohio. Jail lock. 1,917,136; July 4.
Malcom, Robert, et al. (See Moran, J. L., and Lee, assignors.)
Malcom, Robert, Chicago, Ill. Goggles. 1,916,678; July 4.
Maloon, Earl B., assignor to Pacific Tractor Equipment Inc., Oakland, Calif. Scraper. 1,916,864; July 4.
Malott, Clifton S., jr., Cincinnati, assignor to American Laundry Machinery Company, Cincinnati, Ohio. Heat reclaimer. 1,916,688; July 4.
Manning, William H., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Valve guide. 1,916,520; July 4.
Manrodt, Kurt, Newark, N. J., assignor to The Union Switch & Signal Company, Swissvale, Pa. Time governed circuit controlling mechanism. 1,916,485; July 4.
Mansel, Paul, Berlin-Charlottenburg, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany. Automatic control mechanism. 1,916,624; July 4.
Marchant Calculating Machine Company. (See Friden, Carl M. F., assignor.)
Marchio, Phillip, North Adams, Mass. Banana extractor and ice cream injector. 1,917,137; July 4.
Marcus, Luis J., et al. (See Smith, Ernest L., assignor.)
Marcus, Samuel, Belle Harbor, assignor to Margon Corporation, New York, N. Y. Doll and mouth set for same. 1,916,578; July 4.
Marcsukowski, Alexander, South Boston, Mass. Curtain fixture. 1,916,679; July 4.
Margon Corporation. (See Marcus, Samuel, assignor.)
Margon Corporation. (See Wilhelm, John H., assignor.)
Marros, Arthur D., New York, N. Y. Ice cream dispenser. 1,916,521; July 4.

Marshall, Henry H., Highland Park, assignor, by mesne assignments, to Carrier Research Corporation, Newark, N. J. Apparatus for controlling the level of liquids. 1,917,045; July 4.
Martin, Herbert E., J. W. Elder, and L. N. Rogers, Cumberland, Md., assignors to Celanese Corporation of America. Making organic esters of cellulose. 1,916,273; July 4.
Martin, Herbert E., and J. W. Elder, Cumberland, Md., assignors to Celanese Corporation of America. Preparing organic esters of cellulose. 1,916,274; July 4.
Martin, John F., assignor to United American Bosch Corporation, Springfield, Mass. Ignition timer. 1,917,046; July 4.
Martyn, John F., and R. J. Leggett, assignors to Gasolene Storage Patents (Proprietary) Limited, Durban, Union of South Africa. Storage tank for petrol and like inflammable liquids. 1,917,138; July 4.
Mason, Harold L., Hampstead, London, England. Valve. 1,916,767; July 4.
Matheu, James M., New York, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shaping uppers over lasts. 1,916,275; July 4.
Mathey, Joseph W., Struthers, Ohio. Clutch mechanism for punch presses. 1,916,324; July 4.
Matsunawa, Shinto, F. Nozawa, and M. Suzuki, Tokyo, assignors to Kabushiki Kaisha Sumitomo Seikosho, Osaka, Japan. Heat-treatment of metals. 1,916,931; July 4.
Matter, O. E., et al. (See Sprake, Edmund T., assignor.)
Matteson, George A., Los Angeles, Calif. Water heater. 1,916,625; July 4.
McAdams, William H., Brookline, Mass., assignor to Universal Oil Products Company, Chicago, Ill. Controlling recycling of exhaust gas in internal combustion engines. 1,916,325; July 4.
McAnulty, Henry T., Red Lake Falls, Minn. Drinking fountain. 1,916,326; July 4.
McBride, Thomas C., Philadelphia, Pa., assignor to Worthington Pump and Machinery Corp., New York, N. Y. Locomotive feed water heater of the tank type. 1,916,736; July 4.
McCarthy Business Machines Co. (See McCarthy, Florence, assignor.)
McCarthy, Florence, assignor, by mesne assignments, to McCarthy Business Machine Co., Inc., New York, N. Y. Gathering and inserting machine. 1,916,847; July 4.
McClain, William T., Los Angeles, Calif. Dummy joint cutter for concrete pavements. 1,916,887; July 4.
McClenny, Robert W., Lewiston, N. C., and G. L. Carpenter, Benton Harbor, assignors to St. Joseph Iron Works, St. Joseph, Mich. Barrel raising machine. 1,916,381; July 4.
McClure, Frances M., New York, N. Y., assignor to The Statton Furniture Manufacturing Company, Hagerstown, Md. Combined dressing table and mirror. Des. 90,254; July 4.
McClure, Frances M., New York, N. Y., assignor to The Statton Furniture Manufacturing Company, Hagerstown, Md. Bedstead. Des. 90,255; July 4.
McClure, Frances M., New York, N. Y., assignor to The Statton Furniture Manufacturing Company, Hagerstown, Md. Bedstead. Des. 90,256; July 4.
McCuen, Charles L., Lansing, assignor to General Motors Corporation, Detroit, Mich. V-8 engine. 1,916,622; July 4.
McCullough Frederick S., Edgewood, assignor to The Union National Bank of Pittsburgh, Pittsburgh, Pa. Glass to metal connection. 1,917,047; July 4.
McCutcheon, Thomas E., Washington, D. C. Tile. 1,917,139; July 4.
McEvoy, J. H., & Company. (See Johnson, Edwin A., assignor.)
McFarland, Mildred E., San Francisco, Calif. Box for cosmetics. Des. 90,257; July 4.
McIlrath, Arnold, Pittsburgh, Pa., assignor to Hubbard and Company. Mounting for guy protectors or guards. 1,916,382; July 4.
McKean, John G., Mount Vernon, and R. F. Jones, Glasgow, Scotland. Air and fuel pump unit. 1,916,626; July 4.
McKee, Garnet W., Rockford, Ill. Gas burner. 1,916,982; July 4.
McKinley, John P. (See Sperazz, Charles M., assignor.)
McLaughlin, John E., Alton, Ill., J. H. Treece, and L. D. Soubier, Toledo, Ohio, assignors to Owens-Illinois Glass Company. Machine for forming glass articles. 1,917,140; July 4.
McNab, Gordon, Britton, S. Dak. Sterilizer. 1,916,804; July 4.
McNown, Charles S., Bunker Hill, Ind. Leather preservative and applying same. 1,916,523; July 4.
Meidert, Friedrich, Frankfort-on-the-Main-Griesheim, and H. Schatz, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of siccatives on the base of naphthenic acid. 1,916,805; July 4.
Meigs, Frederick M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing organic fluorine compounds. 1,916,327; July 4.
Melcher, Harry G., assignor of one-half to J. G. Carruthers, Grove City, Pa. Heat exchanger. 1,916,768; July 4.
Mercer, Edward R., Gibbon, Nebr. Automatic signaling mechanism for schools. 1,916,769; July 4.
Mernier, Eugene, Braux, France, assignor to International Safety Lock Nut Corporation. Apparatus for manufacturing forgings. 1,916,432; July 4.
Mersch, Josef, Leverkusen, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Preparing 1.7-dihydroxynaphthalene. 1,916,627; July 4.
Metal Specialty Company, The. (See Flach, Frederic J., assignor.)
Metropolitan Engineering Company. (See Bennett, Irving T., assignor.)
Metropolitan Engineering Company. (See Holmes, Henry S., assignor.)
Meyer, John F. (See Gast, George A., assignor.)
Meyrowitz, E. B., Inc. (See Meyrowitz, Emil B., assignor.)
Meyrowitz, Emil B., New York, N. Y., assignor to E. B. Meyrowitz, Inc. Goggles. 1,916,628; July 4.
Michel, Richard, Uerdingen, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of condensation products from carbazole compounds and olefines. 1,916,629; July 4.
Middleton, Leslie H., assignor to Schwarse Electric Company, Adrian, Mich. Defroster. 1,917,141; July 4.
Midgley, Thomas, jr., Worthington, assignor to Frigidaire Corporation, Dayton, Ohio. Telltale means. 1,917,048; July 4.
Midland Steel Products Company, The, trustee. (See Sneed, John, assignor.)
Midland Steel Products Company, The. (See Sneed, John, assignor.)
Midworth, Cyril, assignor to Eversbed & Vignoles, Limited, London, England. Installation for repeating indications of movement at a distance. 1,916,737; July 4.
Miller, Charles, New York, N. Y. Shoe. Des. 90,258; July 4.
Miller, Ernest, Bremerton, Wash. Collapsible boat. 1,916,486; July 4.
Miller, Frank W., Chicago, Ill. Boiler washing and filling system. 1,916,276; July 4.
Miller, Frank W., Chicago, Ill. Boiler washing and filling system. 1,916,277; July 4.
Miller, Frederick E., Cleveland Heights, Ohio. Toy machine-gun. 1,916,680; July 4.
Miller, Hans, Berlin-Lichterfelde, and M. Eule, Berlin-Spandau, assignors to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Valve. 1,916,738; July 4.
Miller, Herman P., jr., East Orange, N. J., assignor to International Communications Laboratories Inc., New York, N. Y. Radio transmitter system. 1,916,229; July 4.
Miner, W. H., Inc. (See Lounsbury, Harvey J., assignor.)
Minneapolis-Honeywell Regulator Company. (See Shivers, Paul F., assignor.)
Mitchell, Edna K., executrix. (See Mitchell, Joseph S.)
Mitchell, Joseph S., deceased, Chicago, Ill., by Edna K. Mitchell, executrix, Louisville, Ky., assignor to Sullivan Machinery Company. Oil and gas well drilling apparatus. 1,916,278; July 4.
Mix, Edwin S., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Flexible buckle belt. 1,917,142; July 4.
Modern Curtain Co. (See Thorne, Herbert, assignor.)
Moffett, Dallas C., Logan, Ohio. Drill cable snap or cracker. 1,917,143; July 4.
Monsanto Chemical Company. (See Carswell, T. S., and Gump, assignors.)
Monsanto Chemical Company. (See Conover, Courtney, July 4.
Moore, James W., West New York, N. J. Protection booth. 1,916,524; July 4.
Moore, Norman E., Batavia, N. Y. Shirt protector. 1,916,328; July 4.
July 4.
Moore Push Pin Company. (See Siegrist, Adolph, assignor.)
Moran, John L., and A. J. Lee, assignors of one-fourth to F. E. P. Wilder, Spokane, Wash., and one-fourth to R. Malcom, Chicago, Ill. Goggles. 1,916,630; July 4.
Morgan and Wright. (See Eger, Ernst, assignor.)
Morin, Louis H., New York, N. Y. Dial operating mechanism. 1,917,049; July 4.
Morin, Louis H., New York, N. Y. Dialing device. 1,917,050; July 4.
Morin, Louis H., New York, N. Y. Dialing device. 1,917,051; July 4.
Morrison, Montford, Montclair, N. J., assignor to Westinghouse X-Ray Company, Inc. Stereoscopic plate shifter. 1,916,383; July 4.
Morriss, Grover C., Austin, Tex. Mechanical pencil. 1,917,144; July 4.
Mosher, Evert, assignor of one-fourth to J. G. Hopkins, Eads, Colo. Electrically operated window. 1,916,579; July 4.
Moto Meter Gauge & Equipment Corporation. (See Adams, Clark M., assignor.)
Motor Improvements, Inc. (See Williams, Lewis W., assignor.)
Moulton, Evelyn L. (See Moulton, Herbert A. and E. L.)
Moulton, Herbert A. and E. L., Plymouth, N. H. Pencil sharpener. 1,916,889; July 4.

Moxley, Stephen D. (See Barr, C. D., and Moxley.)
Muchnic, Henry E., assignor to The Locomotive Finished Material Company, Atchison, Kans. Paving tile. 1,916,631; July 4.
Mueller Brass Co. (See Rader, Harold K., assignor.)
Mueller Co. (See Mueller, F. H., and Simpson.)
Mueller, Frank H., and J. W. Simpson, assignors to Mueller Co., Decatur, Ill. Plug stop. 1,916,632; July 4.
Muldoon, Anthony M., Englishtown, N. J. Rug. 1,916,932; July 4.
Müller, C. H. F., Aktiengesellschaft. (See Franke, Heinrich, assignor.)
Muller, Wolfgang C., assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Speed control valve. 1,916,433; July 4.
Mulvany, Harry A., and H. E. Kennedy, Berkeley, Calif. Process and apparatus for cleaning fruit. 1,916,633; July 4.
Muros, Joseph, New York, N. Y. Safety razor. 1,917,209; July 4.
Murray, Arthur J., Minneapolis, Minn. Combination feeder and shipping carton. 1,916,230; July 4.
Musebeck, George E., assignor to Musebeck Shoe Company, Danville, Ill. Insole for shoes and manufacturing the same. 1,916,198; July 4.
Musebeck Shoe Company. (See Musebeck, George E., assignor.)
Myrick, George H., Chicago, Ill. Washing machine. 1,916,806; July 4.
Nagel, Henry W., Chicago, Ill. Window structure. 1,916,681; July 4.
Naken, Jene L., Chicago, Ill. Chest for silverware. 1,916,984; July 4.
Napier, D., & Son Limited. (See Vigers, R. W., and Chatterton, assignors.)
National Bank of Germantown & Trust Company, trustee. (See Jackson, W. M. S., and Hackethal, assignors.)
National Carton Company. (See Madsen, A. W., and Gazzolo, assignors.)
National Cash Register Company, The. (See Shipley, Bernis M., assignor.)
National Equipment Company. (See Bausman, Alonzo L., assignor.)
National Lock Co. (See North, Edwin W., assignor.)
National Machinery Company, The. (See Ehinger, William E., assignor.)
National Malleable and Steel Castings Company. (See Davis, R. S., and Beauchamp, assignors.)
National Steel Fabric Company. (See Edge, Walter S., assignor.)
National Supply Company, The. (See Rice, A. E., and Zerbe, assignors.)
National Synthetic Corporation. (See Forrest, H. O., and Frolich, assignors.)
Naugatuck Chemical Company, The. (See Hazell, Eardley, assignor.)
Nebel, Charles N., Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Power line carrier current system. 1,917,052; July 4.
Nelson, L. R., Manufacturing Co. (See Armstrong, Charles C., assignor.)
Nelson, N. P., Iron Works. (See Nelson, N. P., and James, assignors.)
Nelson, Nels P., Passaic, and F. W. James, Belleville, assignors to N. P. Nelson Iron Works, Passaic, N. J. Portable crane. 1,917,053; July 4.
Neuland, Alfons H., Irvington, N. J., assignor, by mesne assignments, to Electrogear Corporation. Automatic power transmission. Re18,888; July 4.
Neumann, Frederick F., West Hartford, assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn. Fuel supply device for liquid fuel burners. 1,916,807; July 4.
Newbauer, Oscar E., Rocheater, N. Y. Emergency key holder for automobiles. 1,916,890; July 4.
Newberg, Charles A., Fort Worth, Tex. Compound compression stop and waste valve. 1,916,384; July 4.
Newhouse, Walter F., Benton Harbor, Mich. Basket or box corner reenforce. 1,916,580; July 4.
New York Air Brake Company, The. (See Campbell, Charles A., assignor.)
New York Belting and Packing Company. (See Curtiss, Nathaniel H., assignor.)
Nicholls, Henry M., Chicago, Ill., assignor to American Can Company, New York, N. Y. Container. 1,916,279; July 4.
Nicholson, George E., assignor, by mesne assignments, to Refinery Supply Company, Tulsa, Okla. Dead weight gauge. 1,917,145; July 4.
Nicholson, Stanley W., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Window regulator. 1,916,865; July 4.
Nistri, Umberto, Rome, Italy. Phogrammetric apparatus. 1,916,487; July 4.
Nixdorff, Samuel P. (See Alexanderson, E. F. W., Alger, and Nixdorff.)
Nixdorff, Samuel P., and E. F. W. Alexanderson, Schenectady, N. Y., assignors to General Electric Company. Regenerative electric regulator. 1,917,146; July 4.
Nock, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Spoon or article of analogous nature. Des. 90,259; July 4.
Nordberg, Bruno V. E., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Power plant. 1,916,329; July 4.
Nordberg Manufacturing Company. (See Nordberg, Bruno V. E., assignor.)
Nordström, Abel, Buenos Aires, Argentina. Roller for crushing clods. 1,916,330; July 4.
Norling, Reinhold A., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Rotary motor. 1,917,054; July 4.
North, Edwin W., assignor to National Lock Co., Rockford, Ill. Concealed refrigerator lock. 1,916,848; July 4.
Northrup, Edwin F., Princeton, assignor to Ajax Electrothermic Corporation, Ajax Park, N. J. Inductor for furnaces and the like. 1,916,434; July 4.
Noxon, Paul A., Jackson Heights, assignor to The Western Union Telegraph Company, New York, N. Y. Extended channel system. 1,917,195; July 4.
Nozawa, Fusatoshi. (See Matsunawa, S., Nozawa, and Suzuki.)
O. & S. Bearing Co. (See Skillman, Newton, assignor.)
Oakes, Bernard F., Lincoln, Nebr. Football line charging apparatus. 1,916,885; July 4.
Oakland, Peter. (See Dodge, J. M., and Oakland.)
Oakland-California Towel Company. (See Trewhitt, James E., and Borroughs, assignors.)
Oakwood Electrical Manufacturing Company, The. (See Kingston, Frederick S., assignor.)
O'Brien, Frank, Flint, assignor to General Motors Corporation, Detroit, Mich. Lathe. 1,916,581; July 4.
Och, Henry G., New York, and F. A. Hinshaw, St. Albans, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Measurement of electrical characteristics of transmission circuits and networks. 1,916,231; July 4.
Ogsbury, James S., Dayton, Ohio, and F. M. Carroll, Yonkers, assignors to The Tabulating Machine Company, Endicott, N. Y. Printing device for tabulating machines. 1,916,985; July 4.
Ohio Injector Company of Illinois, The. (See Edwards, Frank W., assignor.)
Ohio Injector Company of Illinois, The. (See Edwards, F. W., and Barker, assignors.)
Ohio Injector Company of Illinois, The. (See Edwards, F. W., and Farnsworth, assignors.)
Ohio Rubber Company, The. (See Bronson, Budd, assignor.)
Oliver, John R., Medfield, assignor to Reece Shoe Machinery Company, Boston, Mass. Press. 1,916,280; July 4.
Oliver United Filters, Inc. (See Coulson, Donald C., assignor.)
Olsen, John, administrator. (See Hentschel, Ernest R.)
Olson, Carl G., assignor to Shakeproof Lock Washer Company, Chicago, Ill. Lock washer. 1,916,525; July 4.
Olson, Carl G., assignor to Shakeproof Lock Washer Company, Chicago, Ill. Lock washer with keys. 1,916,526; July 4.
Oplusstil, Gustav, assignor to the Firm Ignaz Storek, Brunn, Czechoslovakia. Hydraulic servo motor. 1,917,055; July 4.
Osann, Frederick, Company. (See Hohmann, Richard K., assignor.)
Osborn, Robert R. (See Wright, T. P., and Osborn.)
Ostrander, John K., Philadelphia, Pa. Cable clamp. 1,917,147; July 4.
Ott, Ernest H., Pittsburgh, and B. J. Gudge, East Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Molded table cover. 1,916,435; July 4.
Ottawa River Paper Company. (See Walker, Walter H., assignor.)
Ovenda Corporation. (See Hiatt, Ernest B., assignor.)
Overmeyer, John, assignor to William Willheim Co., Inc., New York, N. Y. Textile fabric or similar article. Des. 90,260; July 4.
Ovestrud, Melvin, assignor to Pioneer Gravel Equipment Manufacturing Company, Minneapolis, Minn. Bearing structure. 1,916,682; July 4.
Owens Development Corporation. (See Owens, Freeman H., assignor.)
Owens, Freeman H., assignor to Owens Development Corporation, New York, N. Y. Electro-dynamic photographic sound device. 1,916,739; July 4.
Owens-Illinois Glass Company. (See McLaughlin, J. E., Treece, and Soubier, assignors.)
Pacific Tractor Equipment Inc. (See Maloon, Earl B., assignor.)
Packard Motor Car Company. (See Griswold, Walter R., assignor.)
Packard Motor Car Company. (See Woolson, Lionel M., assignor.)
Padgett, Joseph E., assignor to Spicer Manufacturing Corporation, Toledo, Ohio. Transmission gearing with rear clutch. 1,916,891; July 4.
Page, John E., Sydney, New South Wales, Australia, assignor to The Guardian Trust Company, Cleveland, Ohio, trustee for The Gibson Patent Containers, Ltd. Machine for assembling container parts. 1,916,281; July 4.
Page, Ralph E., and C. D. Lake, Binghamton, assignors to The Tabulating Machine Company, Endicott, N. Y. Group indicating system. 1,916,986; July 4.

Pajeau, Charles H., Glencoe, assignor to The Toy Tinkers, Inc., Evanston, Ill. Toy construction block. 1,916,634; July 4.
Pantone Corporation. (See Trist, Arthur R., assignor.)
Parayre, Jean J. (See Bourgeois, F. J., and Parayre.)
Paris, Robert E., New York, N. Y. Record analyzing mechanism. 1,916,232; July 4.
Parker, Kenneth S., assignor to The Parker Pen Company, Janesville, Wis. Desk set. 1,916,808; July 4.
Parker Pen Company, The. (See Parker, Kenneth S., assignor.)
Parker, Thomas L., Chicago, Ill. Electric switch. 1,916,849; July 4.
Parks, John A., Villa Ridge, Mo. Folding lawn and camp chair. 1,916,771; July 4.
Parrish, Richard, assignor to John A. Bedford, Detroit, Mich. Electric lead connecter. 1,916,488; July 4.
Pastir, Frank B., New York, N. Y. Inflatable toy balloon with openings. 1,916,527; July 4.
Pathe Exchange, Inc. (See De Moos, Charles, assignor.)
Patrol Valve Company, The. (See Te Pas, Edmund J., assignor.)
Patten, Ernest L., New Haven, Conn., assignor to Boston Rubber Shoe Company, Malden, Mass. Lasting machine. 1,916,436; July 4.
Patterson, James F., San Jose, Calif. Playground apparatus. 1,916,809; July 4.
Pauckner, Gustav. (See Wietzel, G., and Pauckner.)
Payne, Edwin M. (See White, J., and Payne.)
Peacock, Frank F., Kansas City, Mo. Art and means of identification. 1,916,282; July 4.
Peck, Henry A., Crown Point, N. Y. Oil gauge wiper. 1,916,933; July 4.
Peck, John B., Richmond Heights, assignor to J. M. Brown, St. Louis, and M. Peck, Richmond Heights, Mo. Refrigerator and cooling apparatus. 1,917,056; July 4.
Peck, Margaret, et al. (See Peck, John B., assignor.)
Peddicord, Paul G., Dayton, Ohio. Electric food slicer. Des. 90,261; July 4.
Pehrsson, Sven J., assignor to The Colson Company, Elyria, Ohio. Hand truck. 1,916,850; July 4.
Peirce, John R., assignor, by mesne assignments, to The Tabulating Machine Company, New York, N. Y. Accounting machine. 1,916,987; July 4.
Pen-Chlor, Incorporated. (See Reits, H., and Ehlers, assignors.)
Pendergast, Maurice H., assignor to Brunner Manufacturing Company, Utica, N. Y. Compressor. 1,917,057; July 4.
Pepper, Byron J., Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company. Fluid flow regulator. 1,916,635; July 4.
Perazzoli, Henry, Philadelphia, Pa. Crank shaft. 1,917,148; July 4.
Permutit Company, The. (See Green, Walter H., assignor.)
Perret, Charles-Ferdinand. (See Kuns, A., and Perret.)
Perrine, Annie E., executrix. (See Perrine, G. H.)
Perrine, George H., deceased, by A. E. Perrine, Hastings-upon-Hudson, N. Y., executrix, assignor to Scovill Manufacturing Company, Waterbury, Conn. Self locking slide loop. 1,917,149; July 4.
Perrine, George H., deceased, by A. E. Perrine, Hastings-upon-Hudson, N. Y., executrix, assignor to Scovill Manufacturing Company, Waterbury, Conn. Self locking slide loops. 1,917,150; July 4.
Perrine, George H., deceased, by A. E. Perrine, Hastings-upon-Hudson, N. Y., executrix, assignor to Scovill Manufacturing Company, Waterbury, Conn. Self locking slide loop. 1,917,151; July 4.
Perry, Joseph A., Swarthmore, assignor to The United Gas Improvement Company, Philadelphia, Pa. Carbonising solid bituminous fuel. 1,917,196; July 4.
Perry, Thomas J., et al. (See Heinz, George J., assignor.)
Peterson, Carl D., assignor to Spicer Manufacturing Corporation, Toledo, Ohio. Gear shifting mechanism for auxiliary gear sets of change speed transmission gearing. 1,916,892; July 4.
Peterson, Carl D., assignor to Spicer Manufacturing Corporation, Toledo, Ohio. Two-way clutch device. 1,916,893; July 4.
Pfluezer, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing tackle. 1,916,582; July 4.
Pfundt, George M. (See Errig, W. F., and Pfundt.)
Pharo, Timothy F., sr., Tuckerton, N. J. Display rack for canned goods. 1,916,683; July 4.
Phelps Dodge Corporation. (See Ayer, F., Crowfoot, Hérivel, and Sorensen, assignors.)
Phelps, George A., Flemington, W. Va. Casket. 1,917,152; July 4.
Philips' N. V., Gloeilampenfabrieken. (See Bouwers, A., and Boldingh, assignors.)
Phillips Mine and Mill Supply Company. (See Goletz, Albert, assignor.)
Pierce, John B., et al. (See Hubach, Gustave, assignor.)
Pieschke, Fritz, New York, N. Y. Collapsible flower display. 1,916,988; July 4.
Pilling, Norman B., Elizabeth, N. J., assignor to The International Nickel Company, Inc., New York, N. Y. Malleable nickel having improved welding quality. 1,916,386; July 4.
Pioneer Gravel Equipment Manufacturing Company. (See Ovestrud, Melvin, assignor.)
Piron, Ferand, Woonsocket, R. I. Spinning machine. 1,917,058; July 4.
Pittsburgh Plate Glass Company. (See Clarke, Frank, assignor.)
Platz, Karl. (See Steindorf, A., Daimler, and Platz.)
Pneumatic Scale Corporation. (See Howard, Stanley B., assignor.)
Pogue, Robert B., Orange, N. J., assignor to The American Brake Shoe and Foundry Company, New York, N. Y. Brake shoe reenforce. 1,916,387; July 4.
Pole, Ernestine N., Hot Springs, Va. Flower holder. 1,916,583; July 4.
Polin, Franz. (See Schrader, C., Keinath, Polin, and Ritz.)
Pollard, Edward V. (See Warner, D. F., and Pollard.)
Pongratz, Alfred, Graz, Austria, assignor to Felice Bensa, Genoa, Italy. Manufacturing perylene tetracarboxylic acid anhydrid. 1,917,153; July 4.
Porter-Cable Machine Company, The. (See Emmons, Arthur N., assignor.)
Porter, Donald A. (See Porter, Irving J., D. A., and F. A.)
Porter, Edgar E., Charlotte, N. C. Vaporizing system for commercial liquefied hydrocarbons. 1,917,154; July 4.
Porter, Fred A. (See Porter, Irving J., D. A., and F. A.)
Porter, Irving J., D. A., and F. A., Cortland, N. Y. Axle puller. 1,916 866; July 4.
Postel, Carl. (See Vandergrift, J. N., and Postel.)
Pounder, Wilbur R. (See Brooks, Joseph R.)
Powell, Charles L., assignor to Caisson Contracting Company, New York, N. Y. Air lock for pneumatic caissons. 1,916,684; July 4.
Powers, Rollin B., Ashley, Ohio. Printing die. 1,917,059; July 4.
Praed, John G. (See Atkinson, Frederick C., assignor.)
Pratt, Goodrich B., Grantwood, assignor to Bond Electric Corporation, Jersey City, N. J. Flash light. 1,907,060; July 4.
Pratt, Sherry A., Oakland, Calif. Folding camp armchair. 1,916,772; July 4.
Pressler, Marcel, New York, N. Y. Speed change transmission. 1,916,283; July 4.
Puening, Franz, O'Hara Township, Allegheny County, Pa. Coking apparatus. 1,916,331; July 4.
Pungs, Wilhelm, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Impregnating and adhesive composition. 1,916,584; July 4.
Quarles, Donald A., Englewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Composite transmission system. 1,917,061; July 4.
Rader, Harold K., assignor to Mueller Brass Co., Port Huron, Mich. Wire. 1,916,989; July 4.
Radio Corporation of America. (See Bol, Cornelis, assignor.)
Radio Patents Corporation. (See Langewiesche, Wilhelm, assignor.)
Radley, Bertram V., Shaldon, near Tiegnmouth, England. Appliance for golf practice. 1,916,740; July 4.
Ragan, Tuomas M., assignor to E. B. Wiggins, Los Angeles, Calif. Coupling. 1,916,284; July 4.
Rankin, William K., Lansdowne, Pa., assignor to General Electric Company. Fluid-break circuit interrupter. 1,917,155; July 4.
Ransome, Stafford M., assignor to Barber-Colman Company, Rockford, Ill. Indexing mechanism. 1,916,990; July 4.
Rantsch, Edward J., Hollis, N. Y., assignor to Hill-Independent Manufacturing Company, Germantown, Pa. All aluminum packet seal. 1,916,636; July 4.
Rapid Tool Corporation. (See Jennings, William A., assignor.)
Rathbun, Harry B. (See French, Fred W. and L. H., and Rathbun.)
Rather, James B., L. C. Beard, jr., Brooklyn, and O. M. Reiff, Jackson Heights, assignors to Socony-Vacuum Corporation, New York, N. Y. Distillate petroleum products and treating the same. 1,916,437; July 4.
Rather, James B., and L. C. Beard, jr., Brooklyn, and O. M. Reiff, Jackson Heights, assignors to Socony-Vacuum Corporation, New York, N. Y. Distillate petroleum products and treating the same. 1,916,438; July 4.
Rauschenbusch, Carl T., and F. Rauschenbusch, Kirchen-on-the-Sieg, Germany. Method of and apparatus for separating ore or metal of high specific gravity. 1,917,156; July 4.
Rauschenbusch, Felix. (See Rauschenbusch, Carl T. and F.)
Raymond Concrete Pile Company. (See Schroeder, Frederick A., assignor.)
Raymond Concrete Pile Company. (See Smith, Herman R., assignor.)
Raymond Concrete Pile Company. (See Watt, Elihu D., assignor.)
Raymond, Gwynne, Kansas City, Mo. Spray extractor. 1,916,528; July 4.
Read, Ernest K., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control relay. 1,916,439; July 4.
Reece Shoe Machinery Company. (See Oliver, John R., assignor.)

Reed, Marion C., Charleston, W. Va., assignor to The B. F. Goodrich Company, New York, N. Y. Rubber composition and preserving rubber. 1,916,285; July 4.

Reed, Marion C., South Charleston, W. Va., assignor to The B. F. Goodrich Company, New York, N. Y. Rubber composition and preserving rubber. 1,916,286; July 4.

Reed, Marion C., South Charleston, W. Va., assignor to The B. F. Goodrich Company, New York, N. Y. Rubber composition and preserving rubber. 1,916,287; July 4.

Reel, Harry S. (See Solomon, Nat L., assignor.)

Refinery Supply Company. (See Nicholson, George E., assignor.)

Reichmann, Wilhelm, Wuppertal-Barmen, Germany, assignor to A.-A. Soesman, Zurich, Switzerland, and O. H. Zimmerman, Barman, Prussia, Germany. Link chain for electric illumination. 1,916,489; July 4.

Reiff, Orland M. (See Rather, J. B., Beard, and Reiff.)

Reiland, Lars A. G. (See Von Platen, B. C., and Reiland.)

Reinhard, Frank A., Norton, assignor to L. L. Witter, Boston, Mass. Concrete wall construction. 1,917,062; July 4.

Reinhold, John J., Marietta, Pa. Optical advertising device. 1,916,529; July 4.

Reitz, Heinrich, Bitterfeld, and H. Ehlers, Sandersdorf, Germany, assignors, by mesne assignments, to Pen-Chlor, Incorporated, Philadelphia, Pa. Improving the handling and storing qualities of compounds of calcium. 1,916,770; July 4.

Remington Rand Inc. (See Hutchings, Le Roi E., assignor.)

Revere Copper and Brass Incorporated. (See Lucia, Louis V., assignor.)

Rhodes, M. H., Inc. (See Rhodes, Marcus H., assignor.)

Rhodes, Marcus H., assignor to M. H. Rhodes, Inc., New Haven, Conn. Switch. 1,916,867; July 4.

Rhodes, Waddill L., San Jon, N. Mex. Lister attachment. 1,916,637; July 4.

Riblet, Robert M., assignor to The Timken Roller Bearing Company, Canton, Ohio. Bearing positioning means. 1,916,233; July 4.

Ricardo, Harry R., London, England. Driving the speed governors or other auxiliaries of fluid-pressure engines. 1,916,585; July 4.

Ricci, Leonardo, Arnold, Pa. All metal tire cover. 1,917,157; July 4.

Rice, Allen E., Palos Verde, and L. E. Zerbe, Moneta, Calif., assignors to The National Supply Company, Toledo, Ohio. Distribution of water for cooling brake rims. Re18,887; July 4.

Richards, Alfred E., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for sewing bag corners. 1,916,388; July 4.

Richardson, Henry M., Marblehead, Mass., assignor to General Electric Company. Rayon spinning bucket drive. 1,917,158; July 4.

Richardson, Myron H., assignor to Advance Machine Company, Chicago, Ill. Vending machine. 1,916,530; July 4.

Rider, Ernest G., and W. T. Bailey, assignors to Stokes and Smith Company, Philadelphia, Pa. Method of and apparatus for making boxes. 1,916,440; July 4.

Rike, Howard A., Norphlet, Ark. Valve. 1,916,490; July 4.

Ritz, Hans. (See Schrader, C., Keinath, Polin, and Rits.)

Rix, William R., assignor to A. N. Russell & Sons Company, Ilion, N. Y. Cabinet construction. 1,916,894; July 4.

Risiano, Michael B., Los Angeles, Calif. Folding square. 1,916,638; July 4.

Robb, John F., Cleveland Heights, Ohio. Cement loader, bag counter and indicator for batch mixing apparatus. 1,916,531; July 4.

Roberts, Frank B., and W. G. Huntington, Anaheim, assignors to Food Machinery Corporation, San Jose, Calif. Conveyer mechanism. 1,916,532; July 4.

Roberts, Gordon. (See Decker, S. K., and Roberts.)

Roberts, Joseph H., Waterbury, assignor to F. B. Shuster Co., Inc., New Haven, Conn. Long stock fabricating machine. 1,916,991; July 4.

Robertson, John H., and L. Gutteridge, London, England. Variable speed friction gearing. 1,916,533; July 4.

Robinson, Preston, and J. L. Collins, assignors to Sprague Specialties Co., North Adams, Mass. Electrolytic device. 1,916,586; July 4.

Robinson, Saul. (See Slavin, Lionel L., assignor.)

Rockola, David C., Chicago, Ill. Scale. 1,916,234; July 4.

Rogers, George D., Louisville, Ky. Card holder. 1,916,639; July 4.

Rogers, Linwood N. (See Martin, H. E., Elder, and Rogers.)

Rogers, William G., Waxahachie, Tex. Air cooling attachment for electric fans. 1,916,332; July 4.

Rolfs, Eugene L., St. Louis, Mo., assignor to Johns-Manville Corporation, New York, N. Y. Pipe wrapping machine. 1,917,197; July 4.

Rollason, Charles H., assignor to Wheeling Steel Corporation, Wheeling, W. Va. Sheet metal container. 1,917,063; July 4.

Romnes, Haaken I., Upper Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Vacuum tube circuits. 1,917,064; July 4.

Roper, Geo. D., Corporation. (See Hollman, Peter I., assignor.)

Rose, Edwin L., Cambridge, Mass., assignor to Dahlstrom Metallic Door Company, Jamestown, N. Y. Rectilinear induction motor. 1,916,491; July 4.

Rose, Harold J., Penn Township, Allegheny County, Pa., and W. H. Hill, New York, N. Y., assignors to The Koppers Company of Delaware. Impregnated product and manufacture. 1,916,333; July 4.

Ross, Hugh G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Capacitor motor. 1,916,389; July 4.

Rossman, Allen M., Wilmette, assignor to Rossman, Sargent & Lundy Patents Corporation, Chicago, Ill. System and method of regulation. 1,916,934; July 4.

Rossman, Sargent & Lundy Patents Corporation. (See Rossman, Allen M., assignor.)

Rounds, Arthur C., Scituate, R. I. Brush. 1,916,334; July 4.

Rowe, Fred H., Gloucester, Mass. Windshield heater. 1,916,895; July 4.

Royal Typewriter Company. (See Degener, Gustave O., assignor.)

Ruben, Samuel, New Rochelle, N. Y. Remote control device. 1,916,235; July 4.

Rubin, Solomon H., Brookline, and J. J. Clifford, Reading, Mass. Hospital sheeting. 1,916,640; July 4.

Ruby Lamp Mfg. Co. (See Shapiro, Theodore, assignor.)

Ruddy Manufacturing Company. (See Johnson, F. A., and Freeborn, assignors.)

Rusbult, Herbert, Williamsburg, Iowa. Battery charging unit. 1,916,587; July 4.

Rusden, Ethelbert A., Nayatt, R. I., assignor to The Textile-Finishing Machinery Company. Apparatus for dyeing or otherwise treating fabrics. 1,917,065; July 4.

Russell, A. N., & Sons Company. (See Rix, William R., assignor.)

Russell, Robert P., Baton Rouge, La., assignor to Standard-I. G. Company. Producing hydrocarbon distillates. 1,916,441; July 4.

Rutherford, Eugene W., New Haven, assignor to The Shoe Hardware Company, Waterbury, Conn. Top stop. 1,916,390; July 4.

Ryan, Lonnie W., Merrick, assignor to Titanium Pigment Company, Inc., New York, N. Y. Precipitating titanium compounds. 1,916,236; July 4.

Rzeppa, Alfred H., Detroit, Mich. Universal joint. 1,916,442; July 4.

S. & T. Metal Company. (See Shoemaker, Robert J., assignor.)

Saharoff, Alexander V., Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Valve. 1,916,685; July 4.

St. Joseph Iron Works. (See McClenny, R. W., and Carpenter, assignors.)

St. Regis Paper Company. (See Hartman, Carl H., assignor.)

Sams, James A., Schenectady, and V. F. Shaw, Scotia, N. Y., assignors to General Electric Company. Method and apparatus for testing metals. Re18,889; July 4.

Samsonwerk G. m. b. H. (See Hentschke, K., and Von Bovert, assignors.)

Sand Spun Patents Corporation. (See Barr, C. D., and Moxley, assignors.)

Sandstone, Harvey D., Los Angeles, Calif. Casing liner. 1,916,686; July 4.

Sanzenbacher, Donald L., assignor to L. A. Darling Company, Bronson, Mich. Article display pedestal. Des. 90,262; July 4.

Sargent & Company. (See Voight, Henry G., assignor.)

Sargent, Don A., Portland, Me. Ventilating and air-conditioning apparatus. 1,916,907; July 4.

Savaria, Oswald A., Chicopee, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Valve organization for playing balls and the like. 1,916,935; July 4.

Sayler, William. (See Jacobsen, Armand P., assignor.)

Schaaf, Richard A., New York, N. Y. Car doorlatch. 1,917,159; July 4.

Schaeffer, Elmer R., Crestwood, assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y. System for preventing electrical ignition of reservoir stored inflammables. 1,916,335; July 4.

Schalscha, Max, Summit, N. J. Pile hammer. 1,917,066; July 4.

Schatz, Hermann. (See Meidert, F., and Schatz.)

Scheer, Charley A., Cedar Rapids, Iowa. Combined safety razor and stropper. 1,916,936; July 4.

Schering-Kahlbaum A.-G. (See Scheeller, W., and Borgwardt, assignors.)

Schering-Kahlbaum A.-G. (See Schmidt, Rudolf, assignor.)

Schering-Kahlbaum A.-G. (See Schwenk, E., Gehrke, and Aichner, assignors.)

Schermerhorn, George D., Reading, Mich. Cushioned foot for chairs. 1,916,836; July 4.

Scheynost, Rudolph, assignor of one-half to Chas. Hollenbach, Inc., Chicago, Ill. Comminuting machine. 1,917,198; July 4.

Schiano, Salvatore, Brooklyn, N. Y. Perfume vending machine. 1,916,992; July 4.

Schlaburg, Charles, Akron, Ohio. Slack take-up for electric conductor cords. 1,916,937; July 4.

Schmidt, Otto, Feuerbach Germany, assignor to Baker Perkins Company, Inc., Saginaw, Mich. Electrically heated bake oven. 1,916,810; July 4.

Schmidt, Rudolf, Berlin-Grunewald, assignor to Schering-Kahlbaum A.-G., Berlin, Germany. Production of aliphatic-aromatic ketones. 1,916,741; July 4.

Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Heat interchanging apparatus. 1,916,337; July 4.

Schmidt'sche Heissdampf-Gesellschaft mit beschrankter Haftung. (See Trede, H., and Hartmann, assignors.)

Schneider, George, Montclair, N. J., assignor to Celanese Corporation of America. Ripening a cellulose ester and the product thereof. 1,916,689; July 4.

Schnetzler, Harry G., Hammond, assignor to Standard Oil Company, Whiting, Ind. Apparatus for distilling hydrocarbon oils. 1,916,690; July 4.

Schoeller, Walter, Berlin-Westend, and E. Borgwardt, Berlin-Pankow, assignors to Schering-Kahlbaum A.-G., Berlin, Germany. Manufacture of monobrominated menthane. 1,916,742; July 4.

Schoen, August C., Lansdale, Pa. Stocking inspecting device. 1,917,067; July 4.

Schrader, Carl, Berlin-Halensee, G. Keinath, Berlin-Charlottenburg, F. Polin, Berlin-Grunewald, and H. Ritz, Berlin-Charlottenburg, assignors to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany. Power transformer and more particularly to transformers and reactors for extra high voltage currents. 1,916,588; July 4.

Schricker, Otto, Mount Healthy, Ohio. Mower guide for lawn fixtures. 1,916,494; July 4.

Schroeder, Frederick A., Rochelle Park, assignor to Raymond Concrete Pile Company, New York, N. Y. Reamer for earth boring buckets. 1,916,691; July 4.

Schumaker, Leo. J., assignor to Dayton Scale Company, Dayton, Ohio. Thrust plate. 1,916,993; July 4.

Schundler, Frederic E. (See Denning, Paul S., assignor.)

Schuricht, Alfons G., Alton, assignor to Western Cartridge Company, East Alton, Ill. Plating shot. 1,916,492; July 4.

Schwartz, Frank M., New York, N. Y. Doll. 1,916,811; July 4.

Schwarze Electric Company. (See Middleton, Leslie H., assignor.)

Schwarzmann, Wolfgang E., Longmeadow, assignor to United American Bosch Corporation, Springfield, Mass. Ignition coil and controlling device therefor. 1,916,694; July 4.

Schweitzer Edmund O. (See Herz, Alfred, assignor.)

Schweizer, Jack, assignor to William Willheim Co., Inc., New York, N. Y. Textile fabric or similar article. Des. 90,263; July 4.

Schwenk, Erwin, M. Gehrke, and F. Aichner, assignors to Schering-Kahlbaum A.-G., Berlin, Germany. Production of acrolein. 1,916,743; July 4.

Scotland, Bayard S., Joliet, Ill. Macaroni and making the same. 1,916,812; July 4.

Scott, Allison F. H., Pleasantville, N. Y. Burial vault. Des. 90,264; July 4.

Scott, Harry E., Cleveland Heights, assignor to The Thew Shovel Company, Lorain, Ohio. Gear lock for combined turntables and tractors. 1,917,160; July 4.

Scott, Thomas T., Fairmount, assignor to Sheffield Steel Corporation, Kansas City, Mo. Furnace. 1,917,068; July 4.

Scott, Victor L., Ottumwa, Iowa. Drill mounting. 1,917,069; July 4.

Scovill Manufacturing Company. (See Perrine, George H., assignor.)

Scribner, George K., assignor to Boonton Molding Company, Boonton, N. J. Molding of plastic articles. 1,916,692; July 4.

Scribner, George K., assignor to Boonton Manufacturing Company, Boonton, N. J. Molded closure. 1,916,693; July 4.

Secretary of War of the United States of America. (See Woodberry, David L., assignor.)

Seeger, Edwin W., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Resistance controller. 1,916,584; July 4.

Seeliger, Hermann, Berlin-Grenewald, Germany. Toothbrush. 1,916,641; July 4.

Selas Company, The. (See LeBoutillier, H. W., and Hess, assignors.)

Seneca Silk Company. (See Greenspan, Elsie, assignor.)

Seneca Silk Co. (See Hecker, Edward, assignor.)

Servis Equipment Company. (See Jarmin, James B., assignor.)

Sessa, Michele, Los Angeles, Calif. Aeroplane. 1,916,813; July 4.

Shakeproof Lock Washer Company. (See Olson, Carl G., assignor.)

Shaler, David M., Platte City, Mo. Cereal cutting machine. 1,916,773; July 4.

Shamberger, John P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Center-axle drive for locomotives. 1,916,391; July 4.

Shapiro, Theodore, Brooklyn, assignor to Ruby Lamp Mfg. Co., Inc., New York, N. Y. Lamp or similar article. Des. 90,265; July 4.

Shaw, Louis E., East Orange, N. J., assignor to J. S. Stokes, Spring Valley Farms, Pa. Molding. 1,916,495; July 4.

Shaw, Virgil F. (See Sams, J. A., and Shaw.)

Sheffield Steel Corporation. (See Scott, Thomas T., assignor.)

Sheftel, Abraham G., New York, N. Y. Colorimeter. 1,916,589.

Shelby Metal Products Company, The. (See Hoffman, Laurence N., assignor.)

Shelby, William, Eastwood, Ontario, Canada. Egg crate. 1,916,642; July 4.

Sherwood, Charles F., Highland Park, Mich., assignor to Sherwood Patents, Ltd., San Francisco, Calif. Bearing. 1,916,338; July 4.

Sherwood Patents, Ltd. (See Sherwood, Charles F., assignor.)

Shinn, William C., assignor to Chicago Lock Company, Chicago, Ill. Face plate for coin chutes. Des. 90,266; July 4.

Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,916,535; July 4.

Shirk, William B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power transmission system. 1,916,443; July 4.

Shivers, Paul F., Wabash, Ind., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Radiator valve. 1,916,814; July 4.

Shoe Hardware Company, The. (See Rutherford, Eugene W., assignor.)

Shoemaker, Robert J., assignor to S. & T. Metal Company, Chicago, Ill. Making lead alloys. 1,916,496; July 4.

Shreeve, John C., Joliet, Ill. Rail joint lubricator. 1,917,070; July 4.

Shuster, F. B., Co. (See Roberts, Joseph H., assignor.)

Siegrist, Adolph, Jenkintown, assignor to Moore Push-Pin Company, Philadelphia, Pa. Pushpin package. 1,916,994; July 4.

Siegrist, Adolph, Jenkintown, assignor to Moore Push-Pin Company, Philadelphia, Pa. Hook display carton. 1,916,995; July 4.

Siemens & Halske, Aktiengesellschaft. (See Mansel, Paul, assignor.)

Siemens & Halske Aktiengesellschaft. (See Schrader, C., Keinath, Polin, and Ritz, assignors.)

Siemens-Schuckertwerke Aktiengesellschaft. (See Miller, H., and Eule, assignors.)

Sikorsky Aviation Corporation. (See Sikorsky, Igor, assignor.)

Sikorsky, Igor, College Point, N. Y., assignor to Sikorsky Aviation Corporation, Wilmington, Del. Multimotored amphibian. 1,916,444; July 4.

Silent Glow Oil Burner Corporation, The. (See Neumann, Frederick F., assignor.)

Simpson, James W. (See Mueller, F. H., and Simpson.)

Simpson, William K., assignor to Hoffman Specialty Company, Waterbury, Conn. Vacuum check air valve for vapor heating systems. 1,916,695; July 4.

Sippel, George B. (See Wachman, J., and Sippel.)

Sisson, Edgar G., jr. (See MacLean, G., and Sisson.)

Skillman, Newton, Highland Park, assignor to O. & S. Bearing Co., Detroit, Mich. Ball and socket connection. 1,916,744; July 4.

Skog, August W., Minneapolis, Minn. Lifting jack. 1,916,497; July 4.

Slade, James V., Larchmont, assignor, by mesne assignments, to The Dor Company, Inc., New York, N. Y. Classifier. 1,916,392; July 4.

Slavin, Lionel L., assignor of one-half to S. Robinson, Brooklyn, N. Y. Construction, relative to frames. 1,916,536; July 4.

Sloan, John F., Peoria, Ill. Heater. 1,916,237; July 4.

Small, Myron B., Wollaston, Mass. Internal combustion engine supplementary air control. 1,916,938; July 4.

Smith, Charles J. (See Harbaugh, B. W., and Smith.)

Smith, Charles L., assignor of one-half to H. Duckman, Rochester, N. Y. Nonskid tire chain. 1,917,161; July 4.

Smith, Elmo E., and K. L. Bunze, Chicago, Ill. Combined lighter and tobacco container or the like. Des. 90,267; July 4.

Smith, Ernest L., San Francisco, Calif., assignor, by mesne assignments, to L. J. Marcus and J. A. Lesoine. Apparatus for curling hair. 1,916,687; July 4.

Smith, Frazier, assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Jar. Des. 90,268; July 4.

Smith, Grover C., Los Angeles, Calif. Timing device for machinery. 1,916,745; July 4.

Smith, Harold L., assignor to The Louis Allis Company, Milwaukee, Wis. Dynamo-electric machine. 1,916,339; July 4.

Smith, Herman R., Douglaston, assignor to Raymond Concrete Pile Company, New York, N. Y. Earth boring apparatus. 1,916,688; July 4.

Smith, James M. (See Thoms, C. A., and Smith, assignors.)

Smith, John E., Plainfield, N. J. Apparatus for making coffee. 1,917,071; July 4.

Smith, Josephine N., Brooklyn, N. Y. Shoe back and heel protector. 1,916,815; July 4.

Smith, Lawrence P., assignor to "Cabin Crafts", Dalton, Ga. Motor operated tufting machine. 1,917,162; July 4.

Smith, Le Roy, Springfield, Mo. Bed side table. 1,916,537; July 4.

Smith, Lucien B. (See Zubaty, J., and Smith.)

Smith, Milton S. (See Stacey, A. E., jr., Lewis, and Smith.)

Smith, Ray C., assignor of one-half to E. A. Boydston, Chicago, Ill. Check protector. 1,916,538; July 4.

Smith, Richmond W., Walpole, Mass. Pulp screen plate. 1,916,393; July 4.

Smith, Robert E. (See Tompkins, John J., assignor.)

Smith, Roy N. (See Cremer, G. F., & Smith.)

Smith, S., Morgan, Company. (See Jessop, G. A., and De Vine, assignors.)

Smythe, Edwin H., Evanston, Ill., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic device. 1,917,072; July 4.

Snapples, Inc. (See Strahm, Allen D., assignor.)

Sneed, John, Grosse Pointe Shores, Mich. Brake shoe and making same. 1,916,851; July 4.

Sneed, John, Grosse Pointe Shores, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, trustee for Steeldraulic Brake Corporation, Detroit, Mich. Brake shoe. 1,917,184; July 4.

Sneed, John, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Flexible conduit. 1,916,896; July 4.

Socony Vacuum Corporation. (See Rather, J. B., Beard, and Reiff, assignors.)

Soesman, Albert A., et al. (See Reichmann, Wilhelm, assignor.)

Soffel, Alberta L., Los Angeles, Calif. Display cabinet. 1,916,238; July 4.

Softis, Nick P., St. Louis, Mo. Flying machine. 1,916,340; July 4.

Solem, Peter A., Rockford, Ill. Bearing for sanding machines. 1,916,897; July 4.

Solomon Nat L., Brooklyn, assignor to H. S. Beel, New York, N. Y. Container. 1,916,493; July 4.

Somerville, Frank J., assignor to Imperial Tobacco Company of Canada, Limited, Montreal, Quebec, Canada. Cigar head knurling and punching device. 1,916,774; July 4.

Somner, William, London, England, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Machine for pressing sound records and the like. 1,916,996; July 4.

Sorensen, Paul M., et al. (See Ayer, F., Crowfoot, Hérivel, and Sorensen.)

Soreny, Ernest. (See Betts, W. L., and Soreny.)

Soubier, Leonard D. (See McLaughlin, J. E., Treece, and Soubier.)

Spalding, A. G., & Bros. (See Savarin, Oswald A., assignor.)

Spangler, Samuel F. (See Hechenbleikner, I., and Spangler.)

Spencer, George P., New York, N. Y. Treating coal and coke. 1,916,539; July 4.

Spencer, John A., Newtonville, assignor to Spencer Thermostat Company, Cambridge, Mass. Temperature controlled apparatus. 1,916,498; July 4.

Spencer Thermostat Company. (See Spencer, John A., assignor.)

Sperazz, Charles M., assignor of one-half to J. P. McKinley, Buffalo, N. Y. Can delivery mechanism. 1,916,445; July 4.

Sperry Gyroscope Company. (See Chantemerle, Joseph L., assignor.)

Sperry Gyroscope Company. (See Wittkuhns, B. A., and Watkins, assignors.)

Spicer Manufacturing Corporation. (See Padgett, Joseph E., assignor.)

Spicer Manufacturing Corporation. (See Peterson, Carl D., assignor.)

Spieth, Karl A., Kearney, Nebr. Tractor guide. 1,916,341; July 4.

Sprague Sells Corporation. (See Kingsbury, William A., assignor.)

Sprague Specialties Co. (See Robinson, P., and Collins, assignors.)

Sprake, Edmund T., assignor of one-fourth to J. Dougherty, Plymouth, and one-fourth to L. Lowe and one-fourth to O. E. Matter, Kingston, Pa. Automatic latching device. 1,916,816; July 4.

Spring, Fred L. V., assignor to The Chase Companies, Incorporated, Waterbury, Conn. Pump-type oiler. 1,916,394; July 4.

Sprong, Severn D. (See Thomson, F. R., and Sprong.)

Stacey, Alfred E., jr., Essex Fells, L. L. Lewis, Plainfield, and M. S. Smith, Maplewood, assignor to Carrier Engineering Corporation, Newark, N. J. Sound absorbing means. 1,916,908; July 4.

Stahl, Rodolphe. (See Wagner, C. R., and Stahl.)

Stallmann, Otto. (See Gubelmann, I., Welland, and Stallmann.)

Stamsvik, Alfred L., Grove City, Pa. Heat exchange apparatus. 1,916,395; July 4.

Standard Brands Incorporated. (See Harrison, Arthur P., assignor.)

Standard Brands Incorporated. (See Wachman, J., and Sippel, assignors.)

Standard-I. G. Company. (See Russell, Robert P., assignor.)

Standard Oil Company. (See Schnetzler, Harry G., assignor.)

Standard Steel Sections, Inc. (See Hirschhorn, Harold L., assignor.)

Stanitz, Jacques, assignor to The Youngstown Pressed Steel Company, Warren, Ohio. Making sinks, wash basins, and the like. 1,916,910; July 4.

Stanwood Corporation, The. (See Zahodiakin, Victor F., assignor.)

Starks, Wesley. (See Lee, Edward W., assignor.)

Starks, Zeston, Malvern, Ohio. Protector and supporter for plants. 1,916,868; July 4.

Starline, Inc. (See Ferris, Henry L., assignor.)

Statton Furniture Manufacturing Company, The. (See McClure, France M., assignor.)

Steber, Bernard T., Utica, N. Y. Valve grinding machine. 1,916,775; July 4.

Steeldraulic Brake Corporation. (See Sneed, John, assignor.)

Steele, Orville R., Covington, Va. Snow vehicle. 1,916,643; July 4.

Steindorff, Adolf, K. Daimler, and K. Platz, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Sulphonated fatty acid esters and their production. 1,916,776; July 4.

Stephens, Howard O., and F. H. Kierstead, Pittsfield, Mass., assignor to General Electric Company. Temperature indicator. 1,917,163; July 4.

Stewart, Alastair Campbell, Crianlarich, and J. Campbell, Doune, Scotland. Loading platform or like attachment for vehicles. 1,916,869; July 4.

Stewart, Charles W., assignor to Hoffman Specialty Company, Waterbury, Conn. Vacuum air valve for vapor heating systems. 1,916,696; July 4.

Stewart, Duncan J., assignor to H. D. Colman, Rockford, Ill. Alternating current motor. 1,916,909; July 4.

Stewart, Leroy C., and L. De Pree, assignors to The Dow Chemical Company, Midland, Mich. Stabilising chlorinated aliphatic hydrocarbons. 1,917,073; July 4.

Stewart-Warner Corporation. (See Whitted, John B., assignor.)

Stock, Otto F., assignor to The Julian & Kokenge Co., Columbus, Ohio. Shoe. Des. 90,269; July 4.

Stöhr, Josef, Waldshut, assignor to the Firm of Lonza-Werke Elektrochemische Fabriken G. m. b. H., Waldshut-Badenia, Germany. Preparation of alkaline earth aluminates. 1,916,627; July 4.

Stokes, Harold E., Murrysville, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power transmission system. 1,916,447; July 4.

Stokes, John S. (See Shaw, Louis E., assignor.)

Stokes, Joseph, Rubber Company. (See Gunkel, Paul O., assignor.)

Stokes and Smith Company. (See Rider, E. G., and Bailey, assignors.)

Stone, Ira F. (See Howell, B. G., and Stone.)

Storch, Karl D., Pittsburgh, Pa. Support for automobile hoods. 1,917,074; July 4.

Storek, Ignaz, the Firm. (See Oplusstil, Gustav, assignor.)

Storey, Oliver W., assignor, by mesne assignments, to Burgess Battery Co., Madison, Wis. Dry battery. 1,916,698; July 4.

Strahm, Allen D., assignor to Snappies, Inc., Tulsa, Okla. Clasp. 1,916,540; July 4.

Street, Edward T., assignor to Downingtown Manufacturing Company, Downingtown, Pa. Press roll removing apparatus. 1,917,164; July 4.

Strezynski, George J., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal bowl. 1,916,870; July 4.

Sturtevant, B. F., Company. (See Allen, George W., assignor.)

Sturtevant, B. F., Company. (See Anderson, Samuel M., assignor.)

Sullivan, Everrard J., assignor to Walker Manufacturing Company, Racine, Wis. Tire pump. 1,916,342; July 4.

Sullivan Machinery Company. (See Mitchell, Joseph S.)

Sullivan Machinery Company. (See Wineman, Wade H., assignor.)

Sulphide Corporation. (See Wescott, Ernest W., assignor.)

Summerbell, William J., Los Angeles, Calif. Glare shield. 1,916,499; July 4.

Summers, Caleb E., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Intake manifold. 1,916,500; July 4.

Suppes, Max M., assignor to The Fox Furnace Company, Elyria, Ohio. Heating apparatus. 1,916,644; July 4.

Surface Combustion Corporation. (See Hepburn, W. M., and Fearnside, assignors.)

Sutherlin, Lee, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Minimizing harmonics in radio receiver output circuits. 1,916,446; July 4.

Sutton, Francis M., New York, N. Y. Refrigerator construction. 1,916,852; July 4.

Suzuki, Masubiro. (See Matsunawa, S., Nozawa, and Suzuki.)

Swift and Company. (See Covey, John E., assignor.)

Swift, George W., jr., assignor to George W. Swift, Jr., Inc., Bordenton, N. J. Mechanical movement for intermittent motion. 1,916,871; July 4.

Swift, George W., Jr., Inc. (See Swift, George W., jr., assignor.)

Swindell-Dressler Corporation. (See Dressler, P. D., assignor.)

Swisher, Thomas H., Schenectady, N. Y., assignor to General Electric Company. Apparatus for and method of making ice cream or the like. 1,916,746; July 4.

Symmonds, Charles J., Chevy Chase, Md. Article of furniture of the folding type. 1,916,288; July 4.

Sypher, Milford G., Jersey City, N. J., assignor to The Chilton Pen Company, Inc., Long Island City, N. Y. Fountain pen and the like. 1,917,185; July 4.

Syracuse Trust Company, The. (See Axe, Roy T., assignor.)

Szegvari, Andrew. (See Klein, P., and Szegvari.)

Tabulating Machine Company, The. (See Bryce, James W., assignor.)

Tabulating Machine Company, The. (See Carroll, Fred M., assignor.)

Tabulating Machine Company, The. (See Cunningham, James M., assignor.)

Tabulating Machine Company, The. (See Ogsbury, J. S., and Carroll, assignors.)

Tabulating Machine Company. (See Page, R. E., and Lake, assignors.)

Tabulating Machine Company, The. (See Peirce, John R., assignor.)

Tabulating Machine Company, The. (See Tauschek, Gustav, assignor.)

Tabulating Machine Company. (See Weinlich, Hermann A., assignor.)

Tatum, John J., Baltimore, Md. Railway freight car construction. 1,916,343; July 4.

Tauber, Siegfrid, and L. Fischmann, Vienna, Austria, assignors, by mesne assignments, to Dunlop Rubber Company Limited, London, England. Stringing tennis rackets with strings. 1,916,699; July 4.

Tauschek, Gustav, Vienna, Austria, assignor to The Tabulating Machine Company, Endicott, N. Y. Machine for calculatively interpreting perforated cards. 1,916,997; July 4.

Tauschek, Gustav, Vienna, Austria, assignor to The Tabulating Machine Company, Endicott, N. Y. Tabulating, calculating, and similar machine. 1,916,998; July 4.

Taylor Instrument Companies. (See Cleveland, Robert D., assignor.)

Taylor, James Hall, Oak Park, Ill. Making curved pipe fittings. 1,916,645; July 4.

Teichmann, Ludwig. (See Ley, P., and Teichmann.)

Tenney, Perry L., Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich. Transmission. 1,916,501; July 4.

Te Pas, Edmund J., Lakewood, assignor to The Patrol Valve Company, Cleveland, Ohio. Gas burner control. 1,917,075; July 4.

Terhune, Edwin W., assignor to Lord & Burnham Company, Irvington, N. Y. Sash operating mechanism. 1,916,817; July 4.

Ternstedt Manufacturing Company. (See Hollerith, Charles, assignor.)

Textile Finishing Machinery Company, The. (See Rusden, Ethelbert A., assignor.)

Thew Shovel Company, The. (See Scott, Harry E., assignor.)

Thomas & Betts Co., The. (See Buchanan, Stephen N., assignor.)

Thomas, Laurence H. (See Kuhn, F., and Thomas.)

Thompson, Albert R., assignor to Food Machinery Corporation, San Jose, Calif. Marker for fruit brushing machines. 1,916,541; July 4.

Thompson, Marion B., Louisville, Ky. Traffic signal system. 1,917,165; July 4.

Thoms, Carl A., and J. M. Smith, assignors to The Kennedy Car Liner & Bag Co., Shelbyville, Ind. Bulk car liner. 1,916,344; July 4.

Thomson, Frederick B., Teaneck, N. J., and S. D. Sprong, Brooklyn, assignors to Engineering Products Corporation, Inc., New York, N. Y. Meter tag identification seal. 1,916,448; July 4.

Thorne, Herbert, assignor to Modern Curtain Co., Inc., Boston, Mass. Curtain. 1,916,898; July 4.

Thorp, Joel R., assignor, by mesne assignments, to The Fulton Company, West Allis, Wis. Deflector shield. 1,917,076; July 4.

Thurston, Walter R., Los Angeles, Calif. Compound. 1,916,289; July 4.

Tibbals, Clarence L., and F. M. Hobson, Washington, D. C. Life saving apparatus for aviators. 1,916,345; July 4.

Timken Roller Bearing Company, The. (See Riblet, Robert M., assignor.)

Titanium Alloy Manufacturing Company, The. (See Kinzie, Charles J., assignor.)

Titanium Pigment Company. (See Ryan, Lonnie W., assignor.)

Tokheim Oil Tank and Pump Company. (See Pepper, Byron J., assignor.)

Tompkins, John J., assignor of one-half to R. E. Smith, Lakeland, Fla. Hose and pipe coupling. 1,916,449; July 4.

Toncray, Millard H., Detroit, and J. W. Greig, Grosse Pointe Park, assignors to Hudson Motor Car Company, Detroit, Mich. Vehicle seat. 1,916,846; July 4.

Towle Manufacturing Company. (See Nock, Harold E., assignor.)

Toy Tinkers, Inc., The. (See Pajeau, Charles H., assignor.)

Tratsch, Walter A., Chicago, Ill. Amusement device. 1,916,590; July 4.

Traver, Harry G., Beaver Falls, Pa. Amusement ride and vehicle. 1,916,999; July 4.

Trede, Hans, and O. H. Hartmann, assignors to Schmidt'sche Heissdampf-Gesellschaft mit beschrankter Haftung, Kassel-Wilhelmshohe, Germany. Indirect generation of steam by means of superheated heating steam. 1,917,166; July 4.

Treece, Jesse H. (See McLaughlin, J. E., Treece, and Soubier.)

Trent Process Corporation. (See Trent, Walter E., assignor.)

Trent, Walter E., assignor to Trent Process Corporation, New York, N. Y. Carbonising process. 1,916,939; July 4.

Trewhitt, James E., Oakland, and J. N. Borroughs, Piedmont, assignors to Oakland-California Towel Company, Oakland, Calif. Towel cabinet. 1,916,542; July 4.

Trico Products Corporation. (See Hueber, Henry, assignor.)

Trico Products Corporation. (See Hueber, H., and Horton, assignors.)

Trist, Arthur R., London, England, assignor, by mesne assignments, to Pantone Corporation, New York, N. Y. Plate mounting. 1,916,777; July 4.

Trompeter, Peter J., jr. (See Kistler, H. L., and Trompeter.)

Tubbs, Earl D., New York, N. Y. Box strapping apparatus. 1,916,940; July 4.

Tucke, Ernest F., Niles, Ohio. Roof for cars. 1,917,167; July 4.

Tullis, D. & J., Limited. (See Jack, William, assignor.)

Tunnel and Mine Machinery Company. (See Warner, A. W., and Ballard, assignors.)

Turchanyi Ladislas, Sashalom, near Budapest, assignor to Magyar Ruggyantaarugyar Reszvenytarsarag, Budapest, Hungary. Toy. Des. 90,270; July 4.

Twin Coach Company. (See Gageol, Frank R. and W. B., assignors.)

Tycko, Sonia, Los Angeles, Calif. Combination fluid sipping and float device. 1,916,646; July 4.

Tyden, Emil, Hastings, Mich. Valve. 1,917,000; July 4.

Tyden, Emil, Hastings, Mich. Temperature responsive device. 1,917,001; July 4.

Uhlmann, Alfred, Berlin-Steglitz, Germany. Treating fibrous material. 1,917,168; July 4.

Underwood Elliott Fisher Company. (See Dobson, William A., assignor.)

Underwood Elliott Fisher Company. (See Helmond, William F., assignor.)

Unger, Paul O., assignor to Wilson-Jones Company, Chicago, Ill. Automatic lock for record book metal. 1,916,396; July 4.

Unger, Paul O., assignor to Wilson-Jones Company, Chicago, Ill. Card index file. 1,916,397; July 4.

Unger, Paul O., assignor to Wilson-Jones Company, Chicago, Ill. Visible index device. 1,916,398; July 4.

Union National Bank of Pittsburgh, The. (See McCullough, Frederick S., assignor.)

Union Switch & Signal Company, The. (See Gilson, Robert M., assignor.)

Union Switch & Signal Company, The. (See Laurenson, Robert M., assignor.)

Union Switch & Signal Company The. (See Manroot, Kurt, assignor.)

United American Bosch Corporation. (See Martin, John F., assignor.)

United American Bosch Corporation. (See Schwarzmann, Wolfgang E., assignor.)

United Gas Improvement Company, The. (See Perry, Joseph A., assignor.)

United Metal Box Co. Inc. (See Hammer, Samuel, assignor.)

United Shoe Machinery Corporation. (See Goddu, George, assignor.)

United Shoe Machinery Corporation. (See Matheu, James M., assignor.)

United Shoe Machinery Corporation. (See Richards, Alfred E., assignor.)

United States Rubber Company. (See Heston, Allen L., assignor.)

U. S. Slicing Machine Company. (See Folk, Joseph, assignor.)

U. S. Slicing Machine Company. (See van Berkel, Cornelis F. M., assignor.)

Universal Oil Products Company. (See Fisher, Alfred, assignor.)

Universal Oil Products Company. (See Huff, Lyman C., assignor.)

Universal Oil Products Company. (See McAdams, William H., assignor.)

Upton, Charles B., Piqua, Ohio. Press cage. 1,916,347; July 4.

Van Ackeren, Joseph, Pittsburgh, Pa., assignor to The Koppers Company of Delaware. Coking retort oven. 1,916,848; July 4.

Van Ackeren, Joseph, O'Hara Township, Allegheny County, Pa., assignor to The Koppers Company of Delaware. Recovery of hydrocarbon oils. 1,916,849; July 4.

Van Berkel, Cornelis F. M., Wassenaar, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Meat clamp for slicing machines. 1,916,899; July 4.

Vandegrift, James N., and C. Postel, assignors to International Bitumenoil Corporation, New York, N. Y. Low temperature distillation. 1,916,900; July 4.

Vaporedair Corporation. (See Wales, Nathaniel B., assignor.)

Vernam, Gilbert S., Hackensack, N. J., assignor to International Communications Laboratories, Inc., New York, N. Y. Link circuit for interconnecting telegraph toll lines. 1,916,239; July 4.

Victor Talking Machine Company. (See White, J., and Payne, assignors.)

Vigers, Ronald W., and E. E. Chatterton, assignors to D. Napier & Son Limited, London, England. Liquid fuel injection pump for internal combustion engines. 1,917,169; July 4.

Vigilant Automatic Fire Alarm Company Limited, The. (See Jameson, Ronald P., assignor.)

Vilter Manufacturing Company, The. (See Baars, Ernst S. H., assignor.)

Voight, Henry G., assignor to Sargent & Company, New Haven, Conn. Door holder. 1,916,399; July 4.

Vom Bovert, Otto. (See Hentschke, K., and Vom Bovert.)

Von Platen, Baltzar C., Stockholm, Sweden. Electric machine. 1,916,241; July 4.

Von Platen, Baltzar C., and L. A. G. Reiland, Stockholm, Sweden. Electric machine. 1,916,240; July 4.

Vulcan Radiator Company. (See Clarke, Walter R., assignor.)

Wachman, John, and G. B. Sippel, Cincinnati, Ohio, assignors, by mesne assignments, to Standard Brand Incorporated. Starch conversion product and making same. 1,916,872; July 4.

Wadman, Harold A., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Automatic charge guide adjusting mechanism for glass feeding apparatus. 1,917,199; July 4.

Wagenhorst, James H., Jackson, Mich. Vehicle wheel. 1,916,747; July 4.

Wagner, Cary R., and R. Stahl, Chicago, Ill., assignors to Gyro Process Company, Detroit, Mich. Oil converter. 1,916,450; July 4.

Wagner, Hermann, Soden-on-the-Taunus, and H. Kracker, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Water-insoluble azo-dyestuff and fiber dyed therewith. 1,916,778; July 4.

Wahl Company, The. (See Back, Robert, assignor.)

Wahlberg, Nils A., Derry, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc control device. 1,916,400; July 4.

Wald, George, Belleville, Ill. Radio tuning device. 1,917,077; July 4.

Wales, Nathaniel B., assignor to Vaporedair Corporation, New York, N. Y. Refrigerating system and structure therefor. 1,916,901; July 4.

Walker Manufacturing Company. (See Sullivan, Everrard J., assignor.)

Walker, Walter H., New York, N. Y., assignor to Ottawa River Paper Company, Toledo, Ohio. Display device. 1,916,647; July 4.

Walsh, Thomas P., Boston, Mass., assignor to The B. H. R. W. Development Company, New York, N. Y. Loom for weaving oriental knotted fabrics. 1,916,290; July 4.

Walter, B., & Company. (See Walter, Frederick B., assignor.)

Walter, Felix. (See Weibezahn, C., and Walter.)

Walter, Frederick B., assignor to B. Walter & Company, Inc., Wabash, Ind. Draw-leaf table. 1,916,648; July 4.

Walther, Wilhelm, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Flywheel magneto ignition apparatus. 1,916,700; July 4.

Warner, Arthur W., Media, and R. F. Ballard, Chester, assignors to Tunnel and Mine Machinery Company, Philadelphia, Pa. Method of and apparatus for forming tunnels. 1,917,170; July 4.

Warner, Donald F., and E. V. Pollard, Lynn, Mass., assignors to General Electric Company. Governing mechanism for elastic fluid turbines. 1,917,171; July 4.

Warren, Henry E., assignor to Warren Telechron Company, Ashland, Mass. Synchronous motor. 1,917,172; July 4.

Warren, Henry E., assignor to Warren Telechron Company, Ashland, Mass. Electric motor. 1,917,173; July 4.

Warren Telechron Company. (See Warren, Henry E., assignor.)

Washburn Company, The. (See Hindes, Howard W., assignor.)

Watkins, Frederick M. (See Wittkuhns, B. A., and Watkins.)

Watson, Henry, Highwalls, Dinas Powys, Wales. Sealing device. 1,916,451; July 4.

Watson, Henry, Dinas Powys, Wales. Sealing device. 1,916,452; July 4.

Watt, Elihu D., La Grange, Ill., assignor to Raymond Concrete Pile Company, New York, N. Y. Pile boring and facing machine. 1,916,701; July 4.

Watt, Elihu D., Plainfield, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y. Composite pile joint. 1,916,702; July 4.

Webber, Leonard M., Los Angeles, Calif. Book-holding device. 1,916,591; July 4.

Weber, John, Milton, Pa. Cedar chest or similar article. Des. 90,271; July 4.

Wechsberg, Anna M. C., et al., trustees. (See Coppus, Frans H. C., assignor.)

Weibezahn, Carl, and F. Walter, Knapsack near Cologne-on-the-Rhine, assignors to Aktiengesellschaft für Stickstoffdünger, Cologne-on-the-Rhine, Germany. Preparing acetylene. 1,916,592; July 4.

Weiland, Henry J. (See Gubelmann, I., Weiland, and Stallmann.)

Weinlich, Hermann A., Berlin, Germany, assignor to The Tabulating Machine Company, Endicott, N. Y. Debit and credit tabulator. 1,917,002; July 4.

Welch, George D., Hoquiam, Wash. Portable sander tool. 1,916,543; July 4.

Welch, William T., New Orleans, La. Circuit controlling device. 1,916,593; July 4.

Wendt, Bruno, H. Bincer, and A. Fröhlich, Dessau in Anhalt, Germany, assignors to Agfa Ansco Corporation, Binghamton, N. Y. Manufacture of color-pictures. 1,916,350; July 4.

Wendt, Bruno, Dessau in Anhalt, and H. Bincer, Dessau-Ziebigk, Germany, assignors to Agfa Ansco Corporation, Binghamton, N. Y. Light-sensitive material. 1,916,779; July 4.

Werner, Max. (See Droste, W., and Werner.)

Wescott, Ernest W., Niagara Falls, N. Y., assignor, by mesne assignments, to Sulphide Corporation. Treating ores. 1,916,853; July 4.

West, Brennan B. (See Bevington, J. E., and West.)

Wester, Charles E., Ironwood, Mich. Cigarette dispenser. 1,916,453; July 4.

Western Cartridge Company. (See Dawson, George L., assignor.)

Western Cartridge Company. (See Schuricht, Alfons G., assignor.)

Western Union Telegraph Company, The. (See Noxon, Paul A., assignor.)

Westfield Manufacturing Company. (See Fogarty, Charles J., assignor.)

Westinghouse Electric Elevator Company. (See Dunlop, James, assignor.)

Westinghouse Electric & Manufacturing Company. (See Barton, James P., assignor.)

Westinghouse Electric & Manufacturing Company. (See Beers, George L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Cook, Willard G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Crago, Alan C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Harpster, Clyde C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Horn, Charles W., assignor.)

Westinghouse Electric & Manufacturing Company. (See Jenkins, Charles F., assignor.)

Westinghouse Electric and Manufacturing Company. (See Ott, E. H., and Gudge, assignors.)

Westinghouse Electric & Manufacturing Company. (See Read, Ernest K., assignor.)

Westinghouse Electric & Manufacturing Company. (See Ross, Hugh G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Shamberger, John P., assignor.)

Westinghouse Electric & Manufacturing Company. (See Shirk, William B., assignor.)

Westinghouse Electric & Manufacturing Company. (See Stokes, Harold E., assignor.)

Westinghouse Electric & Manufacturing Company. (See Sutherlin, Lee, assignor.)

Westinghouse Electric & Manufacturing Company. (See Wahlberg, Nils A., assignor.)

Westinghouse Lamp Company. (See Du Mont, Allen B., assignor.)

Westinghouse Lamp Company. (See Fredenburgh, Mark N., assignor.)

Westinghouse X-Ray Company. (See Morrison, Montford, assignor.)

Wheeling Steel Corporation. (See Rollason, Charles H., assignor.)

White, Fred J., Washington, D. C. Grating. Des. 90,272; July 4.

White, Jack, Palmers Green, London, and E. M. Payne, Southall, England, assignors to Victor Talking Machine Company. Electromagnetic acoustic device. 1,916,703; July 4.

White Motor Company, The. (See Church, Harold D., assignor.)

White, Sidney Y., assignor to E. H. Loftin, trustee, New York, N. Y. Electron tube system. 1,916,818; July 4.

Whitman, Claude S., Denver, Colo. Fire extinguisher. 1,916,351; July 4.

Whitted, John B., assignor to Stewart-Warner Corporation, Chicago, Ill. Windshield wiper arm construction. 1,916,544; July 4.

Whyte, James, Lynwood, Calif. Carburetor. 1,916,502; July 4.

Wietzel, Gustav, and G. Pauckner, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of phosphoric acid and hydrogen. 1,916,594; July 4.

Wiggins, Earl B. (See Ragan, Thomas M., assignor.)

Wiggins, Earl B., Los Angeles, Calif. Apparatus for converting inertia of moving vehicles into power. 1,916,873; July 4.

Wightman, Rolan J. (See Feldmeier, H., and Wightman.)

Wilbur, Ralph C., Brooklyn, assignor to General Chemical Company, New York, N. Y. Adsorbent. 1,916,902; July 4.

Wilcox, William D., Kansas City, Mo. Obtaining carbon black and hydrocarbons of more complex molecular structure by the pyrolytic dissociation of hydrocarbon gases and vapors. 1,916,291; July 4.

Wilcox, William D., Lawrence, Kans. Apparatus for the thermal dissociation of hydrocarbon gases and vapors. 1,916,545; July 4.

Wilder, Francis E. P., et al. (See Moran, J. L., and Lee, assignors.

Wills, Arnold F., Burnham-on-Sea, and P. Wills, Bridgwater, England. Metal joint washer or gasket. 1,917,175; July 4.

Wills, Percy. (See Wills, Arnold F. and P.)

Wilhelm, John H., Rockaway Beach, assignor, by mesne assignments, to Margon Corporation, New York, N. Y. Frazing tool. 1,916,874; July 4.

Wilhelm, Walter W., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Cylindrical can body and blank therefor. 1,917,174; July 4.

Wilhjelm, Christian, trustee. (See Wilhjelm, C., and Johanson, assignors.)

Wilhjelm, Christian, and G. H. Johansson, assignors, by direct and mesne assignments, to C. Wilhjelm, trustee, Philadelphia, Pa. Control system and apparatus. 1,916,401; July 4.

Willett, Wallace R., New York, N. Y., and H. E. Brown, assignors to American Cotton Picker Corporation, St. Louis, Mo. Driving mechanism for cotton pickers. 1,916,704; July 4.

Willheim, William, New York, N. Y. Textile fabric or similar article. Des. 90,278; July 4.

Willheim, William, Co. (See Gottesman, Joseph M., assignor.)

Willheim, William, Co. (See Guhl, Maclyn, assignor.)

Willheim, William, Co. (See Overmeyer, John, assignor.)

Willheim, William, Co. (See Schweizer, Jack, assignor.)

Williams, Albert J., jr., assignor to Leeds & Northrup Company, Philadelphia, Pa. Transformer. 1,916,352; July 4.

Williams, David T., New York, N. Y. Railway motor. 1,916,242; July 4.

Williams, Harry A. (See Hynes, L. P., and Williams.)

Williams, Lester J., assignor to Carl Braun Inc., Canastota N. Y. Can washing machine. 1,916,595; July 4.

Williams, Lewis W., Morris Township, Morris County, assignor to Motor Improvements, Inc., Newark, N. J. Flame arrester for carburetors. 1,916,705; July 4.

Williams, Shepp A., Bristol, Va. Automatic grave cover. 1,916,941; July 4.

Williams, William E., Bromley, England, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Reproduction of sound records. 1,917,003; July 4.

Willrodt, Fred L., assignor to The Willrodt Tractor Guide Company, Omaha, Nebr. Tractor guide. 1,916,546; July 4.

Willrodt, Fred L., assignor to The Willrodt Tractor Guide Company, Omaha, Nebr. Tractor guide. 1,916,547; July 4.

Willrodt Tractor Guide Company, The. (See Willrodt Fred L., assignor.)

Wilson, Austin B., Flint, assignor to General Motors Corporation, Detroit, Mich. Cleaning metal. 1,916,503; July 4.

Wilson-Jones Company. (See Unger, Paul O., assignor.)

Wine, Albert, Los Angeles, Calif. Safety band saw. 1,916,903; July 4.

Wineman, Wade H., Michigan City, Ind., assignor to Sullivan Machinery Company. Drill steel sharpening mechanism. 1,916,904; July 4.

Winfree, John B., jr., Lynchburg, Va. Cleaner for cake-cutting machines. 1,916,506; July 4.

Winogradow, Alexander, New York, N. Y. Impregnating fiber board with solid substances. 1,917,176; July 4.

Wire Novelty Manufacturing Company. (See Elwell, George H., assignor.)

Wired Radio, Inc. (See Bohner, Chance B., assignor.)

Wired Radio, Inc. (See Hentschel, Ernest R.)

Witte, Clara M., Nebraska City, Nebr. Marine steering mechanism. 1,916,597; July 4.

Witter, Lawrie L. (See Reinhard, Frank A., assignor.)

Witter, Lawrie L., assignor to Gillette Safety Razor Company, Boston, Mass. Safety razor. 1,916,504; July 4.

Wittkuhns, Bruno A., Chatham, N. J., and F. M. Watkins, Forest Hills, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Remote control system. 1,916,706; July 4.

Wohlrabe, Otto, Plauen, Germany. Four cylinder sheet-fed rotary offset press. 1,916,454; July 4.

Wolf, Abraham, assignor to Apollo Shirt Company, New York, N. Y. Collar. 1,917,177; July 4.

Wolfe, Bernard J., assignor to Gleason Works, Rochester, N. Y. Combination lapping and testing machine for gears. 1,917,178; July 4.

Wood, Clyde W., Stockton, Calif. Earth surface mixer. 1,916,548; July 4.

Wood, Harry, Brooklyn, N. Y., assignor to International Communications Laboratories, Inc., Newark, N. J. Telegraph system. 1,916,243; July 4.

Wood, Vera L., et al., trustees. (See Coppus, Frans H. C., assignor.)

Woodberry, David L., Baltimore, Md., assignor to Secretary of War of the United States of America. Fuse for projectiles. 1,916,244; July 4.

Woodberry, David L., Baltimore, Md., assignor to Secretary of War of the United States of America. Fuse. 1,916,245; July 4.

Woodfine, William, Verdun, near Montreal, Quebec, Canada. Margin regulators for typewriters. 1,916,905; July 4.

Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal combustion engine. 1,916,292; July 4.

Wolf, Abraham, assignor to Apollo Shirt Company, New York, N. Y. Collar. 1,917,177; July 4.

Wolfe, Bernard J., assignor to Gleason Works, Rochester, N. Y. Combination lapping and testing machine for gears. 1,917,178; July 4.

Worrall, Roy E., Webster Groves, assignor to Alvey Manufacturing Company, St. Louis, Mo. Conveyer system. 1,917,004; July 4.

Worthington Pump and Machinery Corporation. (See McBride, Thomas C., assignor.)

Worthington Pump and Machinery Corporation. (See Saharoff, Alexander V.)

Woytych, Raymond M. (See Gallimore, K. F., and Woytych.)

Wright, Archibald F., South Orange, N. J. Humidifying system. 1,916,455; July 4.

Wright, Leonard K., Jackson Heights, N. Y. Circuit breaker and changer. 1,916,942; July 4.

Wright, Theodore P., Port Washington, and R. R. Osborn, Garden City, N. Y., assignors to Curtiss Aeroplane & Motor Company, Inc. Landing gear for aircraft. 1,917,078; July 4.

Wright, Thomas G., Tarentum, Pa., assignor to Duplate Corporation. Process and apparatus for applying edge sealing material to laminated glass. 1,916,748; July 4.

Yarbrough, Harold C., Brea, assignor to Yowell & Yarbrough, Inc., Los Angeles, Calif. Combination well cleaner and pump. 1,916,875; July 4.

Yawman & Erbe Manufacturing Company, The. (See Furlong, Roland A., assignor.)

Young, Charles O. and G. H. Law, Charleston, W. Va., assignors to Carbide & Carbon Chemicals Corporation. Preparation of allyl alcohol. 1,917,179; July 4.

Young, Fred M., Racine, Wis. Heat transferring unit. 1,916,549; July 4.

Youngstown Pressed Steel Company, The. (See Stanits, Jacques, assignor.)

Youngstown Sheet & Tube Company, The. (See Adams, James L., jr., assignor.)

Yowell & Yarbrough, Inc. (See Yarbrough, Harold C., assignor.)

Yurkovitch, Anton, Pittsburgh, Pa. Straining device. 1,916,456; July 4.

Zahodiakin, Victor F., assignor to The Stanwood Corporation, Cincinnati, Ohio. Internal combustion engine. 1,916,550; July 4.

Zahm, Joseph D., assignor to Animal Trap Company of America, Lititz, Pa. Selective double jaw trap. 1,916,876; July 4.

Zahm, Joseph D., and J. U. Lehn, assignors to Animal Trap Company of America, Lititz, Pa. Animal trap. 1,916,877; July 4.

Zaisser, Fritz S., Bronx, N. Y. Closure. 1,916,707; July 4.

Zavatkay, Frederick F., Winsted, Conn. Spike setting device. 1,916,708; July 4.

Zeller, Anthony. (See Long, Eldridge E., assignor.)

Zerbe, Lewis E. (See Rice, A. E., and Zerbe.)

Zerweck, Werner. (See Herz, E., and Zerweck.)

Zielke, Edward F., et al. (See Huber, Frank X., assignor.)

Zielke, Otto H., et al. (See Huber, Frank X., assignor.)

Zimmer Manufacturing Company. (See Ettinger, Joe J., assignor.)

Zimmerman, James G., assignor, by mesne assignments, to Burgess Battery Co., Madison, Wis. Dry battery. 1,916,709; July 4.

Zimmerman, Otto H., et al. (See Reichmann, Wilhelm, assignor.)

Zochau, Robert H., Cincinnati, Ohio. Voting machine. 1,916,505; July 4.

Zubaty, Joseph, and L. B. Smith, assignors to A C Spark Plug Company, Flint, Mich. Decarboniser. 1,916,506; July 4.

Zwick, Walter, Berlin-Westend, Germany. Piston motor. 1,917,180; July 4.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF JULY, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrading machine. A. N. Emmons. Des. 90,239; July 4.
Accounting machine. J. R. Peirce. 1,916,987; July 4.
Accounting means. S. K. Decker and G. Roberts. 1,916,969; July 4.
Acetylene, Preparing. C. Weibezahn and F. Walter. 1,916,592; July 4.
Acid and hydrogen, Production of phosphoric. G. Wietzel and G. Pauckner. 1,916,594; July 4.
Acid concentration, Nitric. I. Hechenbleikner and S. F. Spangler. 1,916,837; July 4.
Acid esters and their production, Sulphonated fatty. A. Steindorff, K. Daimler, and K. Platz. 1,916,776; July 4.
Acid gas, Recovery of. G. J. Horvitz. 1,916,980; July 4.
Acoustic device. E. H. Smythe. 1,917,072; July 4.
Acoustic device, Electromagnetic. J. White and E. M. Payne. 1,916,703; July 4.
Acoustical product. R. Guastavino. 1,917,112; July 4.
Acroleine, Production of. E. Schwenk, M. Gehrke, and F. Aichner. 1,916,743; July 4.
Addressing and printing machine. H. P. Elliott. 1,916,564; July 4.
Adsorbent. R. C. Wilbur. 1,916,902; July 4.
Advertising and display device, Combined. J. G. Gracey. 1,917,030; July 4.
Advertising device, Optical. J. J. Reinhold. 1,916,529; July 4.
Aeroplane. M. Sessa. 1,916,813; July 4.
Agitating and disintegrating device. A. A. David. 1,916,192; July 4.
Agricultural implement, Tractor-drawn. H. Ferguson. 1,916,945; July 4.
Air brake. C. A. Campbell. 1,916,299; July 4.
Air conditioning method and apparatus. S. M. Anderson. 1,917,006; July 4.
Air control, Internal combustion engine supplementary. M. B. Small. 1,916,938; July 4.
Air controlling mechanism for paint-filtering apparatus. F. N. George. 1,916,758; July 4.
Air cooling attachment for electric fans. W. G. Rogers. 1,916,332; July 4.
Aircraft. J. E. Lake. 1,916,956; July 4.
Aircraft, Amphibian. V. J. Bunelli. 1,916,413; July 4.
Air deflector. L. O. Cameron. 1,917,093; July 4.
Airplane. R. F. Hall. 1,916,475; July 4.
Air supply device. J. J. Dubina. 1,916,257; July 4.
Alarm, Electrical fire. R. P. Jameson. 1,916,481; July 4.
Alcohol, Preparation of alkyl. C. O. Young and G. H. Law. 1,917,179; July 4.
Alloy. P. H. Brace. 1,916,410; July 4.
Alloy. F. M. Becket. 1,916,780; July 4.
Alloy, Acid resisting. W. J. Braddock. 1,916,602; July 4.
Aluminum sulphate, Producing. M. Buchner and F. Gewecke. 1,916,603; July 4.
Amphibian, Multimotored. I. Sikorsky. 1,916,444; July 4.
Amplifier. G. L. Beers. 1,916,405; July 4.
Amplifier, Power. E. T. Burton. 1,917,015; July 4.
Amusement device. W. A. Tratsch. 1,916,590; July 4.
Amusement ride and vehicle. H. G. Traver. 1,916,990; July 4.
Anhydride, Refining crude phthalic. C. Conover. 1,916,657; July 4.
Animal trap. J. D. Zahm and J. U. Lehn. 1,916,877; July 4.
Antenna system for sleet melting, and conductor therefor. L. C. F. Horle. 1,917,205; July 4.
Antimonates, Preparing. F. Hörner. 1,916,797; July 4.
Arc control device. N. A. Wahlberg. 1,916,400; July 4.
Armature winding. C. F. Jenkins. 1,916,374; July 4.
Article aligning mechanism. A. L. Bausman. 1,916,959; July 4.
Article and bonding with resin solutions, Composite. H. M. Dent. 1,917,020; July 4.
Articles from masses containing silicon, Production of shaped. H. Haeuber. 1,916,836; July 4.
Awning hanger. I. Flexer. 1,916,788; July 4.
Axe puller. I. J., D. A., and F. A. Porter. 1,916,866; July 4.
Bacon hanger. J. E. Covey. 1,916,464; July 4.
Bailer. O. A. Cavins. 1,917,211; July 4.
Ball joint lubricator. J. C. Shreeve. 1,917,070; July 4.
Banana extractor and ice cream injector. P. Marchio. 1,917,137; July 4.
Bandage for the eyes. W. W. Hines. 1,917,117; July 4.
Barrel raising machine. R. W. McClenny and G. L. Carpenter. 1,916,381; July 4.
Basket or box corner reenforce. W. F. Newhouse. 1,916,580; July 4.
Basket turner. E. B. Hiatt. 1,916,838; July 4.
Battery: *See*—
Dry battery.
Battery charging regulation. R. M. Gilson. 1,916,307; July 4.
Battery charging unit. H. Rusbult. 1,916,587; July 4.
Battery terminal, Storage. T. Hill. 1,916,728; July 4.
Bearing. C. F. Sherwood. 1,916,338; July 4.
Bearing for sanding machines. P. A. Solem. 1,916,897; July 4.
Bearing positioning means. R. M. Riblet. 1,916,233; July 4.
Bearing structure. M. Ovestrud. 1,916,682; July 4.
Bed reader. F. V. R. Hoogendyk. 1,916,667; July 4.
Bed side table. L. Smith. 1,916,537; July 4.
Bedside unit, Hospital. H. Febl and A. Belcher. 1,916,832; July 4.
Bedstead. F. M. McClure. Des. 90,255–6; July 4.
Belt, Abdominal supporting. J. Brohman. 1,916,298; July 4.
Belt, Flexible buckle. E. S. Mix. 1,917,142; July 4.
Beverage dispenser. F. A. Johnson and J. W. Freeborn. Des. 90,253; July 4.
Bicycle frame or the like. C. J. Fogarty. Des. 90,241; July 4.
Block: *See*—
Building block. Toy construction block.
Boat, Collapsible. E. Miller. 1,916,486; July 4.
Boiler: *See*—
Steam boiler.
Boiler control. W. J. Hughes and W. H. Green. 1,916,426; July 4.
Boiler washing and filling system. F. W. Miller. 1,916,276–7; July 4.
Bookholder. F. C. Landsittel. 1,916,576; July 4.
Book-holding device. L. M. Webber. 1,916,591; July 4.
Boom, Laterally shifting digging. H. H. Barber. 1,916,247; July 4.
Booster. J. E. Ludwig. 1,916,323; July 4.
Booth, Protection. J. W. Moore. 1,916,524; July 4.
Bottle brushing apparatus. J. R. Gruetter. 1,916,568; July 4.
Bottle closure. J. Gutmann. 1,916,977; July 4.
Bowl, Centrifugal. G. J. Stresynski. 1,916,870; July 4.
Box: *See*—
Folding box. Meter box.
Box. H. Hansen. 1,917,115; July 4.
Box for cosmetics. M. E. McFarland. Des. 90,257; July 4.
Boxes, Method of and apparatus for making. E. G. Rider and W. T. Bailey. 1,916,440; July 4.
Box strapping apparatus. E. D. Tubbs. 1,916,940; July 4.
Bracelet. S. O. Bigney. 1,916,821; July 4.
Brake: *See*—
Air brake.
Brake. A. Y. Dodge. 1,916,881; July 4.
Brake mechanism, Mine car. G. E. Edmunds. 1,916,784–5; July 4.
Brake operating mechanism. J. G. Brewer. 1,916,654; July 4.
Brake shoe. J. Sneed. 1,917,184; July 4.
Brake shoe and making same. J. Sneed. 1,916,851; July 4.
Brake shoe reenforce. R. B. Pogue. 1,916,387; July 4.
Brake tester. L. Kreamer. 1,916,622; July 4.
Branding and inking device. A. C. Flothow. 1,916,661; July 4.
Breathing apparatus. A. B. Dräger. 1,917,182; July 4.
Broaching machine. C. Landers. 1,916,516; July 4.
Brush. A. C. Rounds. 1,916,334; July 4.
Bucket, Digging. H. H. Barber. 1,916,354; July 4.
Buffing wheel. E. W. Hall. 1,916,759; July 4.
Building block. M. A. Grieco. 1,916,308; July 4.
Burner: *See*—
Gas burner.
Burner control, Gas. E. J. Te Pas. 1,917,075; July 4.
Button loop. G. H. Elwell. 1,916,829; July 4.
Button, Self locking slip under. C. A. Light. 1,916,733; July 4.
Cabinet, Amusement machine. G. A. Gast. Des. 90,242; July 4.
Cabinet construction. J. E. Bales. 1,916,189; July 4.
Cabinet construction. W. R. Rix. 1,916,894; July 4.
Cabinet, Display. A. L. Soffel. 1,916,238; July 4.
Cabinet or receptacle, Insulated. D. A. Carlson. 1,916,752; July 4.
Cabinet, Towel. J. E. Trewbitt and J. N. Borroughs. 1,916,542; July 4.

Cable clamp. J. K. Ostrander. 1,917,147; July 4.
Cable snap or cracker, Drill. D. C. Moffett. 1,917,143; July 4.
Calcium, Handling and storing qualities of compounds of. H. Reitz and H. Ehlers. 1,916,770; July 4.
Calculating machine. C. M. F. Friden. 1,916,610; July 4.
Camp arm chair, Folding. S. A. Pratt. 1,916,772; July 4.
Can body and blank therefor, Cylindrical. W. W. Wilhelm. 1,917,174; July 4.
Can delivery mechanism. C. M. Sperazz. 1,916,445; July 4.
Can washing machine. L. J. Williams. 1,916,505; July 4.
Candle flash light. I. L. Ferris and G. C. Fullmer. 1,916,472; July 4.
Candy package. J. Haan. Des. 90,245; July 4.
Capacitor motor. H. G. Ross. 1,916,389; July 4.
Car construction, Railway freight. J. J. Tatum. 1,916,343; July 4.
Car, Eight wheel rail. F. R. and W. B. Fageol. 1,916,468; July 4.
Car liner, Bulk. C. A. Thoms and J. M. Smith. 1,916,344; July 4.
Car, Load discharging. A. Campbell. 1,916,560; July 4.
Car or analogous device, Portable dispensing. M. Harrison. Des. 90,247; July 4.
Carbon black and hydrocarbons of more complex molecular structure by the pyrolytic dissociation of hydrocarbon gases and vapors, Obtaining. W. D. Wilcox. 1,916,291; July 4.
Carbonate product, Cellular synthetic. C. H. and A. H. Harrison. 1,916,949; July 4.
Carbonizing process. W. E. Trent. 1,916,930; July 4.
Carburetor. J. Whyte. 1,916,502; July 4.
Card handling machine. J. M. Cunningham. 1,916,965; July 4.
Card holder. L. E. Hutchings. 1,917,123; July 4.
Card holder. G. D. Rogers. 1,916,639; July 4.
Carriage drive mechanism. C. A. Macomic. 1,916,272; July 4.
Carton, Combination feeder and shipping. A. J. Murray. 1,916,230; July 4.
Carton for cylindrical objects. A. W. Madsen and S. D. Gazzolo. 1,916,519; July 4.
Carton, Hook display. A. Siegrist. 1,916,995; July 4.
Cartridge, Shot gun. C. Hislop. 1,917,118; July 4.
Casing liner. H. D. Sandstone. 1,916,686; July 4.
Casket. G. A. Phelps. 1,917,152; July 4.
Caster. C. K. Greenleaf. 1,916,663; July 4.
Casting machine, Centrifugal. C. D. Barr and S. D. Moxley. 1,916,296; July 4.
Catalyst. M. E. Barker. 1,916,249; July 4.
Cathodes, Manufacturing highly emissive. B. Loewe. 1,917,044; July 4.
Cattle hitch. A. P. Jacobsen. 1,916,953; July 4.
Cellulose ester and product thereof, Ripening a. G. Schneider. 1,916,680; July 4.
Cement, Apparatus and process for making. D. C. Coulson. 1,916,417; July 4.
Cement, High temperature. P. S. Denning. 1,916,971; July 4.
Cement, Manufacture of Portland. L. A. Dahl and W. C. Hanna. 1,916,716; July 4.
Cement, Rubber. E. Hazell. 1,916,421; July 4.
Centrifuge. R. Etzkorn. 1,916,830; July 4.
Ceramic products and manufacturing the same. H. Ackermann. 1,917,181; July 4.
Cereal cutting machine. D. M. Shaler. 1,916,773; July 4.
Chain: *See*—
Tire chain.
Chair: *See*—
Camp arm chair. Lawn and camp chair.
Chairs, Cushioned foot for. G. D. Schermerhorn. 1,916,336; July 4.
Change dispensing mechanism. J. Kiss. 1,916,271; July 4.
Channel system, Extended. P. A. Noxon. 1,917,195; July 4.
Charge forming and feeding means for internal combustion engines. F. H. Heitger. 1,916,952; July 4.
Charge forming device. F. E. Aseltine. 1,916,906; July 4.
Check protector. R. C. Smith. 1,916,538; July 4.
Checker construction. C. G. Bigelow. 1,916,458; July 4.
Checker support. J. C. Hayes and C. G. Bigelow. 1,916,376; July 4.
Chest for silverware. J. L. Naken. 1,916,984; July 4.
Chest or similar article, Cedar. J. Weber. Des. 90,271; July 4.
Chromium, Electro-depositing. W. S. Eaton. 1,917,188; July 4.
Cigar head knurling and punching device. F. J. Somerville. 1,916,774; July 4.
Cigarette dispenser. F. J. Flach. 1,916,757; July 4.
Cigarette dispenser. C. E. Wester. 1,916,453; July 4.
Cigarette dispensing device. A. Girtanner. 1,917,026; July 4.
Circuit, Battery control. W. H. T. Holden. 1,916,316; July 4.
Circuit breaker. A. C. Crago. 1,916,418; July 4.
Circuit breaker and changer. L. K. Wright. 1,916,942; July 4.

Circuit controlling device. C. T. Evans. 1,916,565; July 4.
Circuit controlling device. W. T. Welch. 1,916,593; July 4.
Circuit controlling mechanism, Time governed. K. Manrodt. 1,916,485; July 4.
Circuit for interconnecting telegraph toll lines, Link. G. S. Vernam. 1,916,239; July 4.
Circuit for reducing interference. E. T. Burton. 1,917,016; July 4.
Circuit for reducing interference. O. B. Jacobs. 1,917,035; July 4.
Circuit interrupter, Fluid-break. W. K. Rankin. 1,917,155; July 4.
Circuits, Vacuum tube. H. I. Romnes. 1,917,064; July 4.
Clamp: *See*—
Cable clamp. Releasing clamp.
Pipe clamp.
Clamp. H. G. Butt. 1,916,556; July 4.
Clamp for slicing machines, Meat. C. F. M. Van Berkel. 1,916,899; July 4.
Clasp. A. B. Strahm. 1,916,540; July 4.
Classifier. J. V. Slade. 1,916,392; July 4.
Cleaner: *See*—
Vacuum cleaner. Water pressure cleaner.
Cleaner and pump, Combination well. H. C. Yarbrough. 1,916,875; July 4.
Cleaner for cake-cutting machines. J. B. Winfree, jr. 1,916,596; July 4.
Cleaning, Method and apparatus for. J. W. Chamberlin. 1,917,096; July 4.
Closure. F. S. Zaisser. 1,916,707; July 4.
Closure member and forming and applying. L. G. Copeman. 1,916,857; July 4.
Closure, Molded. G. K. Scribner. 1,916,693; July 4.
Clothes pin. L. G. Copeman. 1,916,856; July 4.
Clutch. D. A. Lettini. 1,917,133; July 4.
Clutch device. S. N. Elliott. 1,916,786; July 4.
Clutch device, Two-way. C. D. Peterson. 1,916,893; July 4.
Clutch mechanism for punch presses. J. W. Mathey. 1,916,324; July 4.
Coal and coke, Treating. G. P. Spencer. 1,916,539; July 4.
Coating for walls of asphalt containers. P. S. Denning. 1,916,970; July 4.
Coating materials, Weather resistant. W. Droste and M. Werner. 1,916,607; July 4.
Coffee, Apparatus for making. J. E. Smith. 1,917,071; July 4.
Coil, Heating. A. T. Lewis and D. E. French. 1,917,042; July 4.
Coke, Apparatus for the dry cooling of. A. Dierschke. 1,916,718; July 4.
Coking apparatus. F. Puening. 1,916,331; July 4.
Collar. A. Wolf. 1,917,177; July 4.
Collar and can assembling machine. N. Geertsen. 1,916,260; July 4.
Collar construction. L. Haven. 1,916,794; July 4.
Colorimeter. A. G. Sheftel. 1,916,589; July 4.
Combustion apparatus. F. A. Hamilton. 1,917,031; July 4.
Comminuting machine. R. Scheynost. 1,917,198; July 4.
Commutating electric machine. L. A. Dreyfus. 1,916,462; July 4.
Compound. W. R. Thurston. 1,916,289; July 4.
Compound of the diphenyl-methane series and preparing the same. I. Gubelmann, H. J. Welland, and O. Stallmann. 1,916,215; July 4.
Compressor. M. H. Pendergast. 1,917,057; July 4.
Compressor, Multistage rotary. P. E. Good. 1,917,029; July 4.
Concrete wall construction. F. A. Reinhard. 1,917,062; July 4.
Condensation products from carbazole compounds and olefines, Manufacture of. R. Michel. 1,916,629; July 4.
Condenser. A. De Clairmont. 1,917,212; July 4.
Conduit, Flexible. J. Sneed. 1,916,896; July 4.
Confections, Method and apparatus for making. A. L. Bausman. 1,916,960; July 4.
Connecter: *See*—
Electric lead connecter. Electrical connecter.
Connection, Ball and socket. N. Skillman. 1,916,744; July 4.
Connection, Combination hot and cold water. H. P. Hess. 1,917,033; July 4.
Construction, relative to frames. L. L. Slavin. 1,916,536; July 4.
Container: *See*—
Sheet metal container.
Container. B. Heller. 1,916,859; July 4.
Container. H. M. Nicholls. 1,916,279; July 4.
Container. N. L. Solomon. 1,916,493; July 4.
Container and processer, Airtight meat cooking. H. Janssen. 1,916,221; July 4.
Container capping machine. J. J. Gaynor. 1,917,025; July 4.
Container closure. J. Gutmann. 1,916,976; July 4.
Container closure, Molded. C. H. Hall. Des. 90,246; July 4.

Container for wrenches and the like. E. H. Carroll. 1,916,918; July 4.
Control apparatus. T. R. Harrison. 1,916,420; July 4.
Control apparatus, Automatic. J. L. Hodgson, A. Ivanoff, and G. P. E. Howard. 1,916,477; July 4.
Control mechanism, Automatic. P. Mansel. 1,916,624; July 4.
Control mechanism for machine tools. A. F. Bennett. 1,916,914; July 4.
Control relay. E. K. Read. 1,916,439; July 4.
Control system. E. H. Bristol. 1,917,092; July 4.
Control system and apparatus. C. Wilhjelm and G. H. Johanson. 1,916,401; July 4.
Controlling mechanism. R. D. Cleveland. 1,916,300; July 4.
Conveyer. N. D. Levin. 1,917,134; July 4.
Conveyer mechanism. F. B. Roberts and W. G. Huntington. 1,916,532; July 4.
Conveyer system. A. L. Beach. 1,916,552; July 4.
Conveyer system. R. R. Worrall. 1,917,004; July 4.
Cooling unit. T. Lewis. 1,917,043; July 4.
Coupling: *See*—
Hose and pipe coupling. Pipe coupling.
Coupling. T. M. Ragan. 1,916,284; July 4.
Coupling arrangement for electron tube circuits, Inductive. L. C. F. Horle. 1,917,204; July 4.
Cover: *See*—
Grave cover. Tire cover.
Molded table cover.
Crane hoist control. W. G. Cook. 1,916,415; July 4.
Crane, Portable. N. O. Nelson and F. W. James. 1,917,053; July 4.
Crank shaft. H. Pernzzoli. 1,917,148; July 4.
Crate, Egg. W. Shelby. 1,916,642; July 4.
Cup: *See*—
Teat cup.
Current motor, Alternating. D. J. Stewart. 1,916,909; July 4.
Current motor control system, Direct. F. Lejeune. 1,916,484; July 4.
Current system, Power line carrier. C. N. Nebel. 1,917,052; July 4.
Curtain. H. Thorne. 1,916,898; July 4.
Curtain fixture. A. Marczukowski. 1,916,679; July 4.
Cutter: *See*—
Stalk cutter.
Cutter for concrete pavements, Dummy joint. W. T. McClain. 1,916,887; July 4.
Cutter for severing bag lengths from paper tubes. C. H. Hartman. 1,916,664; July 4.
Cutting and the like, Device for rotary. J. J. Buckley. 1,916,253; July 4.
Cutting machine. E. Conti. 1,917,187; July 4.
Cutting machine. C. B. Gray. 1,916,419; July 4.
Cutting torch handle. D. M. Hasbrouck. Des. 90,249; July 4.
Cylinder grinding stand. W. A. Jennings. 1,916,618; July 4.
Dead weight gauge. G. E. Nicholson. 1,917,145; July 4.
Decarbonizer. J. Zubaty and L. B. Smith. 1,916,506; July 4.
Defroster. L. H. Middleton. 1,917,141; July 4.
Demountable spoked wheel. J. H. Hunt. 1,917,034; July 4.
Dental floss holder. T. Bodde. 1,916,653; July 4.
Deodorant holder. H. J. Brownstein. 1,916,357; July 4.
Desk set. K. S. Parker. 1,916,808; July 4.
Dial operating mechanism. L. H. Morin. 1,917,049; July 4.
Dialing device. L. H. Morin. 1,917,050–1; July 4.
Diathermy. F. M. Ende. 1,916,722; July 4.
Dichloracetone, Producing asymmetrical. W. O. Herrmann and E. Baum. 1,916,979; July 4.
Die: *See*—
Printing die. Riveting or setting die.
Differential balancing means. D. D. Corey. 1,916,715; July 4.
Dispenser: *See*—
Cigarette dispenser. Tube paste dispenser.
Ice cream dispenser.
Dispensing appliance. C. G. Anastor. 1,916,195; July 4.
Dispensing device. T. M. Jones. 1,916,513; July 4.
Display device. R. W. Anderson and M. J. Kane. 1,917,005; July 4.
Display device. W. H. Walker. 1,916,647; July 4.
Display stand. C. D. Fallert. 1,916,471; July 4.
Distillation Apparatus for high temperature. L. C. Huff. 1,916,319; July 4.
Distillation, Low temperature. J. N. Vandegrift and C. Postel. 1,916,900; July 4.
Doll. F. M. Schwartz. 1,916,811; July 4.
Doll and mouth set for same. S. Marcus. 1,916,578; July 4.
Door actuating mechanism. E. R. Beeman and L. B. Edwards. 1,916,651; July 4.
Door actuating mechanism, Entrance inclosure. L. G. Jacobson. 1,916,480; July 4.
Door, Car. A. Campbell. 1,916,557–8; July 4.
Doorcheck. L. N. Hoffmnn. 1,916,571; July 4.
Door closure. O. C. Johnson. 1,917,127; July 4.
Door for cash protectors. E. E. Bell. 1,916,406; July 4.
Door for railway cars, Side. A. Campbell. 1,916,559; July 4.
Door holder. H. G. Voight. 1,916,399; July 4.
Doorlatch, Car. R. A. Schaaf. 1,917,159; July 4.
Doorlock. J. and C. Hilligren. 1,916,266; July 4.
Door operating mechanism. E. R. Beeman and L. B. Edwards. 1,916,652; July 4.
Double jaw trap, Selective. J. D. Zahm. 1,916,876; July 4.
Draft rigging, Railway. H. J. Lounsbury. 1,916,846; July 4.
Drain trap. C. W. Anderson. 1,916,911; July 4.
Drapery suspension device for curtains. G. W. and D. S. Dover. 1,916,719; July 4.
Drawbar construction for mine cars and the like. A. Goletz. 1,917,028; July 4.
Draw-leaf table. F. B. Walter. 1,916,648; July 4.
Drill jig. E. Chapman. 1,916,414; July 4.
Drilling apparatus for blast furnaces, Tapping hole. A. F. Giese, jr. 1,916,261; July 4.
Drinking fountain. H. T. McAnulty. 1,916,326; July 4.
Drive for locomotives, Center-axle. J. P. Shamberger. 1,916,391; July 4.
Driving light, Auxiliary. J. L. Koubek. 1,916,514; July 4.
Driving mechanism for cotton pickers. W. R. Willett and H. E. Brown. 1,916,704; July 4.
Dry battery. O. W. Storey. 1,916,698; July 4.
Dry battery. J. G. Zimmerman. 1,916,709; July 4.
Dummy, Football training. J. H. Maddock. 1,917,208; July 4.
Dyeings with ester-salts of leuco vat-dyestuffs, Production of fast. G. de Niederhäusern. 1,917,101; July 4.
Dyestuff and fiber dyed therewith, Azo. H. Kracker. 1,916,621; July 4.
Dyestuffs and fiber dyed therewith, Water-insoluble azo. H. Wagner and H. Kracker. 1,916,778; July 4.
Dyestuffs, Manufacturing orange vat. R. Herz and W. Zerweck. 1,916,312 July 4.
Earth aluminates, Preparation of alkaline. J. Stöhr. 1,916,697; July 4.
Earth boring apparatus. H. R. Smith. 1,916,688; July 4.
Earth surface mixer. C. W. Wood. 1,916,548; July 4.
Earth working implement. L. G. Gadd. 1,916,833; July 4.
Electric discharge tube. C. Bol. 1,916,408; July 4.
Electric distribution, System of. A. E. Anderson. 1,917,083; July 4.
Electric illumination, Link chain for. W. Reichmann. 1,916,489; July 4.
Electric lead connecter. R. Parrish. 1,916,488; July 4.
Electric machine. B. C. Von Platen and L. A. G. Relland. 1,916 240–1; July 4.
Electric machine, Dynamo. H. L. Smith. 1,916,339; July 4.
Electric motor. H. E. Warren. 1,917,173; July 4.
Electric power converting apparatus. A. S. Fitz Gerald. 1,917,107; July 4.
Electric regulation. H. Grob. 1,916,975; July 4.
Electric regulator, Regenerative. S. P. Nixdorff and E. V. F. W. Alexanderson. 1,917,146; July 4.
Electric switch. T. L. Parker. 1,916,849; July 4.
Electric switch, Pressure responsive. F. W. Körver. 1,916,427; July 4.
Electric switch, Safety. C. A. De Giers. 1,916,717; July 4.
Electric switching device. A. Herz. 1,916,616; July 4.
Electric system for recording and reproducing sound. E. H. Hansen. 1,916,510; July 4.
Electrical characteristics of transmission circuits and networks, Measurement of. H. G. Och and F. A. Hinshaw. 1,916,231; July 4.
Electrical connecter. W. L. Betts and E. Soreny. 1,917,009; July 4.
Electrical control for can making machinery. W. K. Cabot. 1,916,255; July 4.
Electrical ignition of reservoir stored inflammables, Preventing. E. R. Schaeffer. 1,916,335; July 4.
Electrochemical process for cleaning metal. T. E. Dunn. 1,917,022; July 4.
Electrode and producing same, Welding. T. C. Dawson. 1,916,206; July 4.
Electrolytic device. P. Robinson and J. L. Collins. 1,916,586; July 4.
Electron tube system. S. Y. White. 1,916,818; July 4.
Elevator guide shoe. J. Dunlop. 1,916,365; July 4.
Emulsions, Process and apparatus for producing. L. Kirschbraun. 1,916,885; July 4.
Engine: *See*—
Internal-combustion engine. V-8 engine.
Esters of cellulose, Making organic. H. E. Martin, J. W. Elder, and L. N. Rogers. 1,916,273; July 4.
Esters of cellulose, Preparing organic. H. E. Martin and J. W. Elder. 1,916,274; July 4.
Exercising machine. C. L. Huff. 1,916,660; July 4.
Extractor: *See*—
Spray extractor.
Fabrics, Apparatus for dyeing or otherwise treating. E. A. Rusden. 1,917,065; July 4.
Face plate for coin chutes. W. C. Shinn. Des. 90,266; July 4.
Fan, Oscillating electric. B. A. Benson. 1,916,599; July 4.
Fastening device. G. C. Kauffman and E. J. Gallagher, 3d. 1,916,225; July 4.
Faucet. M. C. Bersted. 1,916,553; July 4.
Feed controlling mechanism for punch presses and the like, Automatic. G. H. Leland. 1,916,845; July 4.

Feed mill. M. D. Bowerman. 1,916,190; July 4.
Feeder: *See*—
Stock feeder.
Fence post puller. F. G. Carrel. 1,916,463; July 4.
Fertilizer salt and making the same, Ammonium nitrate-sulphite. H. Klippel and E. Jaenecke. 1,916,841; July 4.
Fertilizers, Manufacture of mixed. E. Jaenecke and F. Frowein. 1,916,617; July 4.
Fertilizers, Producing mixed. M. Larsson. 1,916,429; July 4.
Fiber board with solid substances, Impregnating. A. Winogradow. 1,917,176; July 4.
Fibrous material, Treating. A. Uhlmann. 1,917,168; July 4.
File, Card index. P. O. Unger. 1,916,397; July 4.
Film developing machine, Automatic. M. De Francisco and A. T. Kurowski. 1,916,207; July 4.
Filter. E. B. Hughson. 1,917,121; July 4.
Filter system. C. W. Horn. 1,916,424; July 4.
Fire extinguisher. C. S. Whitman. 1,916,351; July 4.
Fishing rod handle. W. A. Foss. 1,916,924; July 4.
Fishing tackle. C. T. Pflueger. 1,916,582; July 4.
Fixture support. S. N. Buchanan. 1,916,412; July 4.
Flame arrester for carburetors. L. W. Williams. 1,916,705; July 4.
Flash light. G. B. Pratt. 1,917,060; July 4.
Flask, Foundry. F. W. Hamel. 1,916,217; July 4.
Flexible coupling for vehicular structures. G. H. Curtiss. 1,916,967; July 4.
Flower display, Collapsible. F. Pieschke. 1,916,988; July 4.
Flower holder. E. N. Pole. 1,916,583; July 4.
Fluid distributor device for fluid driving gears. K. Hentschke and O. Vom Bovert. 1,917,116; July 4.
Fluid flow regulator. B. J. Pepper. 1,916,635; July 4.
Fluid sipping and float device, Combination. S. Tycko. 1,916,646; July 4.
Fluorine compounds, Preparing organic. F. M. Meigs. 1,916,327; July 4.
Fly destroyer. M. Jones. 1,916,982; July 4.
Flying machine. N. P. Softis. 1,916,340; July 4.
Foam suppressing substances, Device and method for supplying. A. P. Harrison. 1,916,614; July 4.
Folding box. C. E. Howell, jr. 1,917,120; July 4.
Folding receptacle. D. Forbes. 1,916,662; July 4.
Folding square. M. B. Bizianu. 1,916,638; July 4.
Folding table. B. Boeswinkle. 1,916,823; July 4.
Football line charging apparatus. B. F. Oakes. 1,916,385; July 4.
Forgings, Apparatus for handling. W. E. Ehinger. 1,916,608; July 4.
Forgings, Apparatus for manufacturing. E. Mernier. 1,916,432; July 4.
Form, Road rail. H. L. Hirschhorn. 1,916,796; July 4.
Form, Shoe. A. G. Legge. 1,917,041; July 4.
Fountain: *See*—
Drinking fountain.
Frame cross-tie and apparatus supporting structure for locomotives. J. G. Blunt. 1,916,201; July 4.
Frazing tool. J. H. Wilhelm. 1,916,874; July 4.
Frequency and phase indicating system. A. Crossley. 1,916,782; July 4.
Frequency modulation. R. B. Dome. 1,917,102; July 4.
Fruit, Process and apparatus for cleaning. H. A. Mulvany and H. E. Kennedy. 1,916,633; July 4.
Fruits, Apparatus for treating and peeling. W. A. Kingsbury. 1,916,269; July 4.
Fuel, Carbonizing solid bituminous. J. A. Perry. 1,917,196; July 4.
Fuel and producing same, Carbonaceous. A. Fisher. 1,916,306; July 4.
Fuel consumption indicator, Liquid. C. C. Brown. 1,916,555; July 4.
Fuel, Liquid. G. MacLean and E. G. Sisson, jr. 1,916,735; July 4.
Fuel package for heaters. J. C. Jessen. 1,916,573; July 4.
Fuel supply device for liquid fuel burner. F. F. Neumann. 1,916,807; July 4.
Furnace: *See*—
Rotating furnace.
Furnace. T. T. Scott. 1,917,068; July 4.
Furnaces, Method and apparatus for feeding batch mixtures to. R. Good. 1,916,262; July 4.
Furniture of the folding type, Article of. C. J. Symmonds. 1,916,288; July 4.
Fuse. D. L. Woodberry. 1,916,245; July 4.
Fuse element, Renewable. J. B. Glowacki. Re18,886; July 4.
Fuse for projectiles. D. L. Woodberry. 1,916,244; July 4.
Fuse tightener. F. W. Allgeier. 1,916,711; July 4.
Garment. G. Fordham. 1,916,789; July 4.
Gas burner. P. I. Hollman. 1,916,572; July 4.
Gas burner. G. W. McKee. 1,916,983; July 4.
Gas generation. G. W. Lorimer. 1,916,577; July 4.
Gas in internal combustion engines, Controlling recycling of exhaust. W. H. McAdams. 1,916,325; July 4.
Gas, Removing impurities from. J. W. Bartlett. 1,916,551; July 4.
Gases and vapors, Apparatus for the thermal dissociation of hydrocarbon. W. D. Wilcox. 1,916,545; July 4.
Gate: *See*—
Race-starting gate.
Gathering and inserting machine. F. McCarthy. 1,916,847; July 4.
Gauge: *See*—
Dead weight gauge. Hydrostatic fuel gauge.
Gear for aircraft, Landing. T. P. Wright and R. R. Osborn. 1,917,078; July 4.
Gear lock for combined turntables and tractors. H. E. Scott. 1,917,160; July 4.
Gear shifting mechanism for auxiliary gear sets of change speed transmission gearing. C. D. Peterson. 1,916,892; July 4.
Gearing, Variable speed friction. J. H. Robertson and L. Gutteridge. 1,916,533; July 4.
Gearing with rear clutch, Transmission. J. E. Padgett. 1,916,891; July 4.
Gearing, Yieldable. V. A. Kjaer. 1,916,482; July 4.
Generator: *See*—
Homopolar generator.
Generator regulator for automotive vehicles. D. O. Clegg. 1,917,097; July 4.
Germ-gland substances in a water-soluble condition, Obtaining. W. Hohlweg. 1,916,478; July 4.
Glass feeding apparatus, Automatic charge guide adjusting mechanism for. H. A. Wadman. 1,917,199; July 4.
Glass, Method and apparatus for conditioning molten. G. E. Howard. 1,916,668; July 4.
Glass, Ornamental. F. Clarke. 1,916,753; July 4.
Glass to metal connection. F. S. McCullough. 1,917,047; July 4.
Glass to suction machines, Method of and apparatus for supplying. W. T. Honiss. 1,916,666; July 4.
Goggles. R. Malcom. 1,916,678; July 4.
Goggles. E. B. Meyrowitz. 1,916,628; July 4.
Goggles. J. L. Moran and A. J. Lee. 1,916,630; July 4.
Golf club. A. E. Buhrke and A. F. Heeter. 1,916,963; July 4.
Golf club. W. J. Hadden. 1,916,791; July 4.
Golf club head. W. J. Hadden. 1,916,792; July 4.
Golf playing surface. G. Bowes. 1,917,014; July 4.
Golf practice, Appliance for. B. V. Radley. 1,916,740; July 4.
Governing mechanism for elastic fluid turbines. D. F. Warner and E. V. Pollard. 1,917,171; July 4.
Governors or other auxiliaries of fluid-pressure engines, Driving the speed. H. R. Ricardo. 1,916,585; July 4.
Grading machine. J. H. Book. 1,917,088; July 4.
Grating. F. J. White. Des. 90,272; July 4.
Grave cover, Automatic. S. A. Williams. 1,916,941; July 4.
Grease pump. P. D. Hartog. 1,916,948; July 4.
Grinding machine. C. Booth. 1,916,916–17; July 4.
Ground suppressor, Arcing. F. W. Gay. 1,916,926; July 4.
Group indicating system. J. W. Bryce. 1,916,961; July 4.
Group indicating system. R. E. Page and C. D. Lake. 1,916,986; July 4.
Guard, Traffic. C. C. Elston. 1,916,787; July 4.
Guide, Tractor. K. A. Spieth. 1,916,341; July 4.
Gun barrels and cylindrical surfaces, Apparatus for grinding. M. C. Hutto. 1,916,267; July 4.
Hair, Apparatus for curling. E. L. Smith. 1,916,687; July 4.
Hair-clipper, Automatic. R. Knudsen. 1,916,731; July 4.
Hair former. B. E. Beadle. 1,916,943; July 4.
Halogen compounds, Production of. A. S. Behrman. 1,916,457; July 4.
Hammer, Pile. M. Schalscha. 1,917,066; July 4.
Handle: *See*—
Fishing rod handle.
Handle. H. W. Hindes. Des. 90,251; July 4.
Handle extension. S. R. Harper. 1,916,793; July 4.
Hanger: *See*—
Awning hanger. Bacon hanger.
Hanger. S. Goldstein. 1,916,835; July 4.
Harmonics in radio receiver output circuits, Minimizing. I. Sutherlin. 1,916,446; July 4.
Harrow, Inter-geared off-set disk. J. V. Dyrr. 1,916,720–1; July 4.
Headlight indicator, Vehicle. C. O. Baughn. Des. 90,227; July 4.
Heat exchange apparatus. A. L. Stamsvik. 1,916,395; July 4.
Heat exchanger. H. G. Melcher. 1,916,768; July 4.
Heat interchanging apparatus. W. A. Schmidt. 1,916,837; July 4.
Heat reclaimer. C. S. Malott, jr. 1,916,888; July 4.
Heat transfer unit. W. R. Clarke. 1,916,656; July 4.
Heat transferring unit. F. M. Young. 1,916,549; July 4.
Heat-treatment of metals. S. Matsunawa, F. Nozawa, and M. Suzuki. 1,916,931; July 4.
Heater: *See*—
Water heater. Windshield heater.
Water storage heater.
Heater. J. L. Bright. 1,916,297; July 4.
Heater. J. F. Sloan. 1,916,237; July 4.
Heater of the tank type, Locomotive feed water. T. C. McBride. 1,916,736; July 4.
Heating apparatus. M. M. Suppes. 1,916,044; July 4.
Heel, Wear resisting cushion. M. H. Grant. 1,916,264; July 4.

Hob. O. F. Ewert. 1,916,259; July 4.
Holder: *See*—
Card holder. Flower holder.
Dental floss holder. Napkin holder.
Deodorant holder. Pad holder.
Door holder. Tube holder.
Holder and needle for knitting machines. G. Lange. 1,916,676; July 4.
Holder for automobiles, Emergency key. O. E. Newbauer. 1,916,890; July 4.
Homopolar generator. P. I. Chandeysson. 1,916,256; July 4.
Hood latch. C. J. Hollerith. 1,916,511; July 4.
Horn system. H. Hueber. 1,917,194; July 4.
Hose and pipe coupling. J. J. Tompkins. 1,916,449; July 4.
Hose from mandrels, Method and apparatus for stripping. N. H. Curtiss. 1,916,361; July 4.
House, Bird. W. F. Anklam. 1,916,878; July 4.
Humidifying system. A. F. Wright. 1,916,455; July 4.
Hydraulic servo motor. G. Opluustil. 1,917,055; July 4.
Hydrocarbon distillates, Producing. R. P. Russell. 1,916,441; July 4.
Hydrocarbons, Stabilizing chlorinated aliphatic. L. C. Stewart and L. De Pree. 1,917,073; July 4.
Hydrostatic fuel gauge. E. F. Bacon and C. B. Dinsmore. 1,916,188; July 4.
Ice cream dispenser. A. D. Marros. 1,916,521; July 4.
Ice cream or the like, Apparatus for and method of making. T. H. Swisher. 1,916,746; July 4.
Identification, Art and means of. F. F. Peacock. 1,916,282; July 4.
Indexing mechanism. S. M. Ransome. 1,916,990; July 4.
Indicator: *See*—
Fuel consumption indicator. Temperature indicator.
Ignition apparatus, Flywheel magneto. W. Walther. 1,916,700; July 4.
Ignition coil and controlling device therefor. W. E. Schwarzmann. 1,916,694; July 4.
Ignition timer. J. F. Martin. 1,917,046; July 4.
Impregnated product and manufacture. H. J. Rose and W. H. Hill. 1,916,333; July 4.
Impregnating and adhesive composition. W. Pungs. 1,916,584; July 4.
Incisors, Artificial. L. Köhler. 1,917,131; July 4.
Inclinometer, Oil well recording. C. C. Cole. 1,916,301; July 4.
Index device, Visible. P. O. Unger. 1,916,398; July 4.
Index, Visible. R. A. Furlong. 1,916,209–10; July 4.
Indicator locating device. K. F. Gallimore and R. M. Woytych. 1,916,212; July 4.
Induction motor. F. S. Kingston. 1,916,270; July 4.
Induction motor, Rectilinear. E. L. Rose. 1,916,491; July 4.
Inductor for furnaces and the like. E. F. Northrup. 1,916,434; July 4.
Inertia of moving vehicles into power, Apparatus for converting. E. B. Wiggins. 1,916,873; July 4.
Inflatable article. O. Krichbaum. 1,916,483; July 4.
Ink dispensing device. G. R. Bess. 1,916,200; July 4.
Insole for shoes and manufacturing the same. G. E. Musebeck. 1,916,198; July 4.
Installations for repeating indications of movement at a distance. C. Midworth. 1,916,737; July 4.
Instrument panel. C. M. Adams. 1,917,079; July 4.
Internal combustion engine. W. R. Griswold. 1,916,309–10; July 4.
Internal combustion engine. F. X. Huber. 1,916,318; July 4.
Internal combustion engine. R. Insley. 1,917,206; July 4.
Internal combustion engine. L. M. Woolson. 1,916,292; July 4.
Internal combustion engine. V. F. Zabodiakin. 1,916,550; July 4.
Iodine from dispersion in a liquid medium, Removing. H. H. Dow. 1,916,922; July 4.
Iron, Electric. F. Kuhn and L. H. Thomas. 1,916,673; July 4.
Isocyanates. J. Hilger. 1,916,314; July 4.
Jack: *See*—
Lifting jack.
Jail lock. A. Main. 1,917,136; July 4.
Jar. F. Smith. Des. 90,268; July 4.
Joint: *See*—
Pile joint. Universal joint.
Ketones, Production of aliphatic-aromatic. R. Schmidt. 1,916,741; July 4.
Kiln, Tunnel. P. D. Dressler. 1,916,363; July 4.
Ladder, Extension. J. Diou. 1,916,208; July 4.
Ladder, Tank. H. C. Boardman. 1,916,252; July 4.
Lamp and picture frame, Combined electric. E. D. Allen. Des. 90,222–3; July 4.
Lamp and picture frame, Combined electric. E. D. Allen. Des. 90,226; July 4.
Lamp attachment, Electric. L. A. Lindey. 1,916,322; July 4.
Lamp for automotive vehicles, Signal. B. L. Bobroff. Des. 90,230; July 4.
Lamp manufacture. M. N. Fredenburgh. 1,916,366; July 4.
Lamp or similar article. H. L. Herzfelder and M. Harris. Des. 90,250; July 4.
Lamp or similar article. T. Shapiro. Des. 90,265; July 4.
Lapping and testing machine for gears, Combination. B. J. Wolfe. 1,917,178; July 4.
Lasting machine. E. L. Patten. 1,916,436; July 4.
Latch: *See*—
Hood latch.
Latching device. W. A. Beauchamp. 1,916,650; July 4.
Latching device, Automatic. E. T. Sprake. 1,916,816; July 4.
Lathe. F. O'Brien. 1,916,581; July 4.
Lathe, Piston. C. L. Eich. 1,916,193; July 4.
Laundry press. W. Jack. 1,917,124; July 4.
Lawn and camp chair, Folding. J. A. Parks. 1,916,771; July 4.
Lawn edger. A. L. Harbour and H. Albrecht. 1,916,725; July 4.
Lead alloys, Making. R. J. Shoemaker. 1,916,496; July 4.
Lead directly from lead ore in the form of an acetate of lead, Recovery of. L. P. Curtin. 1,916,302; July 4.
Lead ores and bag-house dust directly into lead salts, Converting roasted. L. P. Curtin. 1,916,303; July 4.
Lens for automobile head lamps. N. De Leo. Des. 90,237; July 4.
Life saving apparatus for aviators. C. L. Tibbals and F. M. Hobson. 1,916,345; July 4.
Lift mechanism. J. A. Kwake. 1,916,674; July 4.
Lifter: *See*—
Valve lifter.
Lifting jack. E. E. Long. 1,916,517; July 4.
Lifting jack. A. W. Skog. 1,916,497; July 4.
Light: *See*—
Candle flash light. Driving light.
Light boundaries, Apparatus for producing. E. J. Grant. 1,916,567; July 4.
Light-sensitive material. B. Wendt and H. Bincer. 1,916,779; July 4.
Lighter and tobacco container or the like, Combined. E. E. Smith and K. L. Bunze. Des. 90,267; July 4.
Lighting and extinction of articles such as letters, words, phrases, pictures, etc., Apparatus providing progressive. F. J. Bourgeois and J. J. Parayre. 1,916,409; July 4.
Line, Switching a spare. F. W. Gay. 1,916,927; July 4.
Lining for molds for concrete columns. L. Hart and G. Fletcher. 1,916,726; July 4.
Liquid infusion device. C. C. Harpster. 1,916,369; July 4.
Liquids, Apparatus for controlling the level of. H. H. Marshall. 1,917,045; July 4.
Lister attachment. W. L. Rhodes. 1,916,637; July 4.
Loader, bag counter and indicator for batch mixing apparatus, Cement. J. F. Robb. 1,916,531; July 4.
Locator recorder, Automatic. E. Logan. 1,916,734; July 4.
Lock: *See*—
Jail lock. Tank filler-cap lock.
Refrigerator lock.
Lock for pneumatic caissons, Air. C. L. Powell. 1,916,684; July 4.
Lock for record book metal, Automatic. P. O. Unger. 1,916,396; July 4.
Lock washer. C. G. Olson. 1,916,525; July 4.
Lock washer with keys. C. G. Olson. 1,916,526; July 4.
Loom for weaving oriental knotted fabrics. T. P. Walsh. 1,916,290; July 4.
Loom rewarping attachment, automatic warp tension plate and sectional guide. J. Dent. 1,916,362; July 4.
Looms for weaving, Automatic weft replenishing and weft cutting device for. J. P. Camps. 1,916,359; July 4.
Lubricant and producing the same, Inorganic. W. A. Boughton. 1,917,089; July 4.
Lubrication. J. Bijur. 1,916,251; July 4.
Lubrication assembly for locomotives. F. W. Edwards. 1,917,191; July 4.
Lubricator: *See*—
Ball joint lubricator.
Lubricator. G. A. Barker. 1,916,248; July 4.
Lubricator for internal combustion engines. W. M. S. Jackson, P. F. Hackethal, and L. J. P. Jackson. 1,917,125; July 4.
Lubricator with individual motor drive, Mechanical. F. W. Edwards and F. B. Farnsworth. 1,917,190; July 4.
Macaroni and making the same. B. S. Scotland. 1,916,812; July 4.
Machine for assembling container parts. J. E. Page. 1,916,281; July 4.
Machine for calculatively interpreting perforated cards. G. Tauschek. 1,916,997; July 4.
Machine for forming glass articles. J. E. McLaughlin, J. H. Treece, and L. D. Soubier. 1,917,140; July 4.
Machine for impressing patterns on materials. W. Haendel. 1,916,947; July 4.
Machine for inspecting, splicing and rewinding motion picture film. A. C. Hayden. 1,916,311; July 4.
Machine for pressing sound records and the like. W. Somner. 1,916,996; July 4.
Machine for sewing bag corners. A. E. Richards. 1,916,388; July 4.
Machine for shaping uppers over lasts. G. Goddu. 1,916,263; July 4.
Machine for shaping uppers over lasts. J. M. Matheu. 1,916,275; July 4.
Machine for sorting perforated cards. K. A. Knutsen. 1,916,801; July 4.

Mandrel for box making machines. B. A. E. Johnson. 1,917,126; July 4.
Manifold, Intake. C. E. Summers. 1,916,500; July 4.
Manifolding device. G. O. Degener. 1,917,100; July 4.
Margin regulator for typewriters. W. Woodfine. 1,916,905; July 4.
Marine steering mechanism. C. M. Witte. 1,916,597; July 4.
Marker for fruit brushing machines. A. R. Thompson. 1,916,541; July 4.
Marker, Universal. J. J. Bertorello. 1,916,250; July 4.
Match dispensing apparatus. H. H. Fuller and E. M. Jones. 1,916,974; July 4.
Material, Making porous. H. Krause. 1,916,954; July 4.
Meal and preparing the same, Edible. C. Birdseye. 1,916,915; July 4.
Meat packing device. H. Janssen. 1,916,220; July 4.
Mechanical movement. J. D. Kreis. 1,916,377; July 4.
Mechanical movement for intermittent motion. G. W. Swift, jr. 1,916,871; July 4.
Merchandise display. H. G. Lorenzen. 1,916,227; July 4.
Metal, Cleaning. A. B. Wilson. 1,916,503; July 4.
Metalliferous masses, Method and apparatus for agglomerating. A. V. Kroll. 1,916,863; July 4.
Metals, Method and apparatus for testing. J. A. Sams and V. F. Shaw. Re18,889; July 4.
Metals, Recuperative and regenerative heat treatment of. A. E. Bellis. 1,916,407; July 4.
Meter: *See*—
Orifice meter.
Meter box. F. C. Hush. 1,916,219; July 4.
Meter for hot water. H. Gahler. 1,916,211; July 4.
Methane, Manufacture of monobrominated. W. Schoeller and E. Borgwardt. 1,916,742; July 4.
Mill: *See*—
Feed mill.
Mill cutters, Apparatus for truing face. S. H. Earl. 1,917,103; July 4.
Milling machine. T. Earle. 1,916,858; July 4.
Mirror. E. J. De Hart. Des. 90,236; July 4.
Mirror, Spare tire. H. Hueber. 1,917,192; July 4.
Mixer: *See*—
Earth surface mixer.
Mixing and compressing machine. H. W. Le Boutillier and F. Hess. 1,917,040; July 4.
Mixing machine. A. Holmquist. 1,917,119; July 4.
Model, Dentist's. W. Köhler. 1,916,376; July 4.
Mold press. P. O. Gunkel. 1,916,368; July 4.
Molded table cover. E. H. Ott and B. J. Gudge. 1,916,435; July 4.
Molding. L. E. Shaw. 1,916,495; July 4.
Molds, Cleaning. P. Klein and A. Szegvari. 1,917,039; July 4.
Molten materials, Method and apparatus for handling. F. B. Allen. 1,916,402; July 4.
Money delivering machine. S. J. Bachardy. 1,916,246; July 4.
Money handling machine. E. J. Brandt. 1,917,091; July 4.
Mop. J. Glover. 1,916,834; July 4.
Mop construction. J. Glover. 1,916,213; July 4.
Mop head, Collapsible. J. Glover. 1,916,214; July 4.
Motor: *See*—
Capacitor motor. Piston motor.
Current motor. Railway motor.
Electric motor. Rotary motor.
Hydraulic servo motor. Synchronous motor.
Induction motor.
Motor operating switch. H. W. Crane. 1,916,360; July 4.
Motor suspension. D. E. Carlson. 1,917,094; July 4.
Mounting, Drill. V. L. Scott. 1,917,069; July 4.
Mounting for guy protectors or guards. A. McIlrath. 1,916,382; July 4.
Mounting, Plate. A. R. Trist. 1,916,777; July 4.
Mounting, Rudder. O. S. Lantz. 1,916,802; July 4.
Mounting, Wall cabinet. S. Hammer. 1,916,509; July 4.
Mouthpiece for cigarettes. J. F. Hughes. 1,916,799; July 4.
Mower guide for lawn fixtures. O. Schrickel. 1,916,494; July 4.
N-substituted aryl-sulphonamides and producing same. T. S. Carswell and W. Gump. 1,916,604; July 4.
Naphthenes, Oxidizing. H. O. Forrest and P. K. Frolich. 1,916,923; July 4.
Napkin holder. E. A. Haveles. 1,916,615; July 4.
Nickel having improved welding quality, Malleable. N. B. Pilling. 1,916,386; July 4.
Noodles, spaghetti and the like, Device for forming. A. Bizzari. 1,916,411; July 4.
Nozzle, Oxy-arc cutting. D. F. Frost. 1,917,109; July 4.
Nozzle, Spray. C. C. Armstrong. 1,916,912; July 4.
Oar, Self-contained training and exercising. R. F. Burke. 1,916,714; July 4.
Oil and gas well drilling apparatus. J. S. Mitchell. 1,916,278; July 4.
Oil converter. G. R. Wagner and R. Stahl. 1,916,450; July 4.
Oiler, Flange. E. O. Corey. 1,916,826; July 4.
Oiler, Pump-type. F. L. V. Spring. 1,916,394; July 4.
Oiler, Rail and flange. F. W. Edwards and N. M. Barker. 1,917,189; July 4.
Oils, Apparatus for distilling hydrocarbon. H. G. Schnetzler. 1,916,690; July 4.
Oils, Recovery of hydrocarbon. J. Van Ackeren. 1,916,349; July 4.
1-7-Dihydroxynaphthalene, Preparing. J. Merach. 1,916,627; July 4.
Ophthalmic mounting. S. E. Bouchard. 1,916,601; July 4.
Ore or metal of high specific gravity, Method of and apparatus for separating. C. T. and F. Rauschenbusch. 1,917,156; July 4.
Ores, Treating. F. Ayer, A. Crowfoot, H. T. Herivel and P. M. Sorensen. 1,916,196; July 4.
Ores, Treating. E. W. Wescott. 1,916,853; July 4.
Orifice meter. J. C. Diehl. 1,916,920; July 4.
Ornamental accessory for automobiles. R. L. Black. 1,916,750; July 4.
Oscillator tube, Self-contained. E. Karplus. 1,916,224; July 4.
Oven, Coking retort. J. Van Ackeren. 1,916,348; July 4.
Oven, Electrically heated bake. O. Schmidt. 1,916,810; July 4.
Package making machine. N. Kraft. 1,916,515; July 4.
Packaging machine. S. R. Howard. 1,916,425; July 4.
Pad holder. J. B. Kemp. 1,916,730; July 4.
Paper, Apparatus and process for making. A. E. Cofrin 1,917,098; July 4.
Paper, Photographic printing. M. Heinrich. 1,917,032; July 4.
Paper receptacle. E. W. Labombarde. 1,917,132; July 4.
Paper, Safety. W. N. Donshkess. 1,916,606; July 4.
Paper, Stencil. K. W. Carr. 1,916,203; July 4.
Pavement and paving unit. W. Johnson. 1,916,620; July 4.
Pavements, Construction of concrete. W. S. Edge. 1,916,563; July 4.
Pedestal, Article display. D. L. Sanzenbacher. Des. 90,262; July 4.
Pen and the like, Fountain. M. G. Sypher. 1,917,185; July 4.
Pencil, Mechanical. G. C. Morriss. 1,917,144; July 4.
Percolator pump. L. V. Lucia. 1,916,228; July 4.
Perfume vending machine. S. Schiano. 1,916,992; July 4.
Perylene tetracarboxylic acid anhydride, Manufacturing. A. Pongratz. 1,917,153; July 4.
Petroleum hydrocarbons, Apparatus for converting. W. M. Cross. 1,916,205; July 4.
Petroleum products and treating the same, Distillate. J. B. Rather, L. C. Beard, jr., and O. M. Reiff. 1,916,437–8; July 4.
Phase multiplier. C. E. Bohner. 1,916,356; July 4.
Photogrammetric apparatus. U. Nistri. 1,916,487; July 4.
Photographic sound device, Electrodynamic. F. H. Owens. 1,916,739; July 4.
Photographs, Method of and system for taking X-ray. H. Franke. 1,917,108; July 4.
Pickling tank. J. R. Brooks. 1,916,958; July 4.
Picture frame or similar article. E. D. Allen. Des. 90,224–5; July 4.
Picture with exaggerated or dimpished relief, Stereoscopic. H. E. Ives. 1,916,320; July 4.
Pictures, Manufacture of color. B. Wendt, H. Bincer, and A. Fröhlich. 1,916,850; July 4.
Pile boring and facing machine. E. D. Watt. 1,916,701; July 4.
Pile joint, Composite. E. D. Watt. 1,916,702; July 4.
Pipe clamp. R. S. Davis and W. L. Beauchamp. 1,916,968; July 4.
Pipe coupling. B. G. Howell and I. F. Stone. 1,916,479; July 4.
Pipe coupling. W. S. Lyness. 1,916,930; July 4.
Pipe fittings, Making curved. J. H. Taylor. 1,916,645; July 4.
Pipe joint compound. H. Goldhagen and O. H. Cornelius. 1,917,027; July 4.
Pipe pusher. J. W. Eckles. 1,916,466; July 4.
Pipe wrapping machine. E. L. Rolfs. 1,917,197; July 4.
Piston. W. Harper, jr. 1,916,978; July 4.
Piston motor. W. Zwick. 1,917,180; July 4.
Piston ring compressor. G. F. Cremer and R. N. Smith. 1,916,827; July 4.
Piston rings, Apparatus for fitting the ends of. C. E. Daniels. 1,916,783; July 4.
Plane, Subgrade. H. L. Kistler and P. J. Trompeter, jr. 1,917,130; July 4.
Plastic articles, Molding of. G. K. Scribner. 1,916,692; July 4.
Plastic product and producing same. L. R. Jones. 1,917,038; July 4.
Platform or like attachment for vehicles, Loading. A. C. Stewart and J. Campbell. 1,916,869; July 4.
Playground apparatus. J. F. Patterson. 1,916,809; July 4.
Pneumothorax apparatus. L. R. Davidson. 1,916,658; July 4.
Polymerization products from divinyl ether and related compounds and producing same. H. Hibbert. 1,916,423; July 4.
Position and altitude finder. E. H. Lewis. 1,916,765; July 4.
Positioning tool. H. W. Kulp and M. C. Dellinger. 1,917,183; July 4.
Poultry appliance. J. B. Guenser. 1,916,790; July 4.
Powder propellants, Manufacture of smokeless. A. Hough. 1,916,763; July 4.

Power plant. B. V. E. Nordberg. 1,916,329; July 4.
Power transformer and more particularly to transformers and reactors for extra high voltage currents. C. Schrader, G. Keinath, F. Polin, and H. Ritz. 1,916,588; July 4.
Power transmission, Automatic. A. H. Neuland. Re18,888; July 4.
Power transmission system. F. W. Gay. 1,916,925; July 4.
Power transmission system. W. B. Shirk. 1,916,448; July 4.
Power transmission system. H. E. Stokes. 1,916,447; July 4.
Power transmission, System of electric. E. F. W. Alexanderson. 1,917,081; July 4.
Power transmission, System of electric. E. F. W. Alexanderson, P. L. Alger, and S. P. Nixdorff. 1,917,082; July 4.
Preservative and applying same, Leather. C. S. McNown. 1,916,523; July 4.
Press: *See*—
Laundry press. Rotary offset press.
Mold press. Shoe press.
Punch press.
Press. J. R. Oliver. 1,916,280; July 4.
Press cage. C. B. Upton. 1,916,347; July 4.
Press for hollow articles, Molding. L. W. Hottel. 1,916,798; July 4.
Press mechanism. A. A. Byerlein. 1,916,655; July 4.
Press roll removing apparatus. E. T. Street. 1,917,164; July 4.
Printing device for tabulating machines. J. S. Ogsbury and F. M. Carroll. 1,916,985; July 4.
Printing die. R. B. Powers. 1,917,059; July 4.
Printing mechanism. F. M. Carroll. 1,916,964; July 4.
Projectiles, Process and apparatus for electroplating. G. L. Dawson. 1,916,405; July 4.
Protective device for electrical apparatus. L. F. Blume and G. Camilli. 1,917,087; July 4.
Protector: *See*—
Check protector. Thumb protector.
Shirt protector.
Shoe back and heel protector.
Protector and supporter for plants. Z. Starks. 1,916,868; July 4.
Puller: *See*—
Axe puller. Fence post puller.
Pulp screen plate. R. Smith. 1,916,393; July 4.
Pump: *See*—
Grease pump. Tire pump.
Percolator pump.
Pump. H. Feldmeier and R. J. Wightman. 1,916,756; July 4.
Pump for internal combustion engines, Liquid fuel injecting. R. W. Vigers and E. E. Chatterton. 1,917,169; July 4.
Pump unit, Air and fuel. J. G. McKenn and R. F. Jones. 1,916,626; July 4.
Punch, Gang. J. M. Cunningham. 1,916,966; July 4.
Punch press mechanism and automatic stop therefor. G. H. Leland. 1,916,379; July 4.
Punch press, Synchronously operated. G. H. Leland. 1,916,380; July 4.
Pushing and pulling implement. B. W. Harbaugh and C. J. Smith. 1,916,476; July 4.
Pushpin package. A. Siegrist. 1,916,994; July 4.
Pyroxylin, Compositing. F. C. Close. 1,916,880; July 4.
Race-starting gate. E. J. Healy. 1,916,951; July 4.
Rack for canned goods, Display. T. F. Pharo, sr. 1,916,683; July 4.
Rackets with strings, Stringing tennis. S. Tauber and L. Fischmann. 1,916,699; July 4.
Radiant energy guiding system for airplanes. J. H. Hammond, jr. and E. F. W. Alexanderson. 1,917,114; July 4.
Radiator valve. P. F. Shivers. 1,916,814; July 4.
Radio direction finder. E. Bruce and H. T. Friis. 1,916,358; July 4.
Radio transmitter system. H. P. Miller, jr. 1,916,229; July 4.
Radio tuning device. G. Wald. 1,917,077; July 4.
Railway motor. D. T. Williams. 1,916,242; July 4.
Railway rolling stock. F. R. and W. B. Fageol. 1,916,470; July 4.
Railway tie extracting device. A. Jakob. 1,916,884; July 4.
Rayon spinning bucket drive. H. M. Richardson. 1,917,158; July 4.
Razor and stropper, Combined safety. C. A. Scheer. 1,916,936; July 4.
Razor blades, Manufacturing safety. J. E. Connolly. 1,916,416; July 4.
Razor, Safety. J. Muros. 1,917,209; July 4.
Razor, Safety. L. L. Witter. 1,916,504; July 4.
Reamer for earth boring buckets. F. A. Schroeder. 1,916,691; July 4.
Receptacle: *See*—
Folding receptacle. Paper receptacle.
Receptacle. L. Bischoff. 1,916,854; July 4.
Receptacle for material-carrying spools. G. D. Atwood. 1,916,712; July 4.
Receptacle making apparatus. E. L. Jones. 1,916,981; July 4.
Record analyzing mechanism. R. E. Paris. 1,916,232; July 4.
Recorder: *See*—
Locator recorder.
Reflector. S. Ender. Des. 90,240; July 4.
Refrigerating apparatus. E. S. H. Baars. 1,916,197; July 4.
Refrigerating apparatus, Absorption type. P. Kohler. 1,916,886; July 4.
Refrigerating system and structure therefor. N. B. Wules. 1,916,901; July 4.
Refrigerating units, Automatically defrosting. C. T. Hoffman. 1,916,315; July 4.
Refrigerator and cooling apparatus. J. B. Peck. 1,917,056; July 4.
Refrigerator construction. F. M. Sutton. 1,916,852; July 4.
Refrigerator lock, Concealed. E. W. North. 1,916,848; July 4.
Register, Cash. B. M. Shipley. 1,916,535; July 4.
Regulation, System and method of. A. M. Rossman. 1,916,934; July 4.
Regulator: *See*—
Electric regulator. Window regulator.
Fluid flow regulator.
Releasing clamp. K. A. Hawley. 1,916,950; July 4.
Relief valve, High pressure. H. M. Lytel. 1,916,766; July 4.
Remote control device. S. Ruben. 1,916,235; July 4.
Remote control system. B. A. Wittkuhns and F. M. Watkins. 1,916,706; July 4.
Resinous substance, Artificial. W. Baird. 1,916,295; July 4.
Resistance controller. E. W. Seeger. 1,916,534; July 4.
Retaining and sustaining device. D. F. Beauchamp. 1,917,086; July 4.
Retreader, Full circle. A. W. Gay. 1,917,110; July 4.
Return bend. R. O. Ayres, F. A. Kroll, and E. A. Johnson. 1,916,598; July 4.
Ring: *See*—
Sealing ring.
Riveting or setting die, Shouldered stud bolt. H. W. Kulp and M. C. Dellinger. 1,916,623; July 4.
Road machine. J. B. Jarmin. 1,916,222; July 4.
Rock, Leaching phosphate. M. Larsson. 1,916,431; July 4.
Roller drier for cylindrical bodies and handling such bodies therein. J. P. Keller. 1,916,840; July 4.
Roller for crushing clods. A. Nordström. 1,916,330; July 4.
Roof for cars. E. F. Tucke. 1,917,167; July 4.
Rotary offset press, Four cylinder sheet-fed. O. Wohlrabe. 1,916,454; July 4.
Rotary motor. R. A. Norling. 1,917,054; July 4.
Rotating furnace. C. Haller. 1,916,569; July 4.
Roundhouse equipment. F. H. C. Coppus. 1,917,202; July 4.
Rowing machine. A. DeV. Harnett. 1,916,883; July 4.
Rubber composition and preserving rubber. M. C. Reed. 1,916,285–7; July 4.
Rug. A. M. Muldoon. 1,916,932; July 4.
Sander tool, Portable. G. D. Welch. 1,916,543; July 4.
Sash construction, Sheet metal. R. T. Axe. 1,916,913; July 4.
Sash operating mechanism. E. W. Terhune. 1,916,817; July 4.
Saw, Safety band. A. Wine. 1,916,903; July 4.
Scale. J. W. Bryce. 1,916,962; July 4.
Scale. D. C. Rockola. 1,916,234; July 4.
Scarf. M. A. and J. M. Green. 1,916,507; July 4.
Scale, Preventing the formation of. J. Lloyd. 1,916,677; July 4.
Scraper. E. B. Maloon. 1,916,804; July 4.
Seal, All aluminum packet. E. J. Rantsch. 1,916,630; July 4.
Seal, Meter tag identification. F. B. Thomson and S. D. Sprong. 1,916,448; July 4.
Sealing device. H. Watson. 1,916,451–2; July 4.
Sealing material to laminated glass, Process and apparatus for applying edge. T. G. Wright. 1,916,748; July 4.
Sealing ring. J. M. Dodge and P. Oakland. 1,916,659; July 4.
Seat: *See*—
Vehicle seat.
Seat or chair, Reversible. C. R. Hultgren. 1,916,800; July 4.
Sedimentation device. S. I. Bousman. 1,916,460; July 4.
Seed distributor. W. H. Barber. 1,917,085; July 4.
Seeder. G. Blatchford. 1,916,781; July 4.
Separator for milk bottles, Cream. G. Lander. 1,916,842; July 4.
Sewing machine. R. H. Hohmann. 1,916,860; July 4.
Sharpener, Blade. B. L. Benson. 1,916,600; July 4.
Sharpener for hair clipper blades. E. W. Lee. 1,916,929; July 4.
Sharpener, Pencil. H. A. and E. L. Moulton. 1,916,889; July 4.
Sharpening mechanism, Drill steel. W. H. Wineman. 1,916,904; July 4.
Sheet metal container. C. H. Rollason. 1,917,063; July 4.

Sheeting, Hospital. S. H. Rubin and J. J. Clifford. 1,916,640; July 4.
Shelf support. S. Bubien. 1,916,202; July 4.
Shield, Deflector. J. R. Thorp. 1,917,076; July 4.
Shield, Glare. W. J. Summerbell. 1,916,499; July 4.
Shirt protector. N. E. Moore. 1,916,328; July 4.
Shoe. C. H. Daniels. Des. 90,233–5; July 4.
Shoe. C. Miller. Des. 90,258; July 4.
Shoe. O. F. Stock. Des. 90,269; July 4.
Shoe back and heel protector. J. N. Smith. 1,916,815; July 4.
Shoe press. E. A. Hammarsjo. 1,916,265; July 4.
Short waves, Device for generating. A. Esau. 1,917,105; July 4.
Shot, Plating. A. G. Schuricht. 1,916,492; July 4.
Siccatives on the base of naphthenic acid, Production of. F. Meidert and H. Schatz. 1,916,805; July 4.
Signal limiting device. W. L. Carlson and R. S. Holmes. 1,917,095; July 4.
Signal system, Traffic. M. B. Thompson. 1,917,165; July 4.
Signaling mechanism for schools, Automatic. E. R. Mercer. 1,916,769; July 4.
Signaling system, Railway. R. M. Laurenson. 1,916,764; July 4.
Silk, Manufacture of artificial. R. Etzkorn. 1,916,831; July 4.
Sinks, wash basins, and the like, Making. J. Stanitz. 1,916,910; July 4.
Slack take-up for electric conductor cords. C. Schlaburg. 1,916,937; July 4.
Sled with endless track drive. G. S. Knickerbocker. 1,916,375; July 4.
Slicer, Electric food. P. G. Peddicord. Des. 90,261; July 4.
Slicing machines, Assembling device for. J. Folk. 1,916,566; July 4.
Slide loop, Self locking. G. H. Perrine. 1,917,149–51; July 4.
Slip-sheeter. B. Ferrar. 1,916,723; July 4.
Smoker's apparatus. L. Hasbrouck. 1,916,727; July 4.
Smoker's article. H. H. Honigbaum. 1,916,729; July 4.
Socket, Lamp. C. E. Godley. 1,916,194; July 4.
Sodium sulphide, Production of. P. Ley and L. Teichmann. 1,916,803; July 4.
Sound absorbing means. A. Stacey, jr., L. L. Lewis, and M. S. Smith. 1,916,908; July 4.
Sound records, Reproduction of. W. E. Williams. 1,917,003; July 4.
Sound reproducing. R. T. Friebus. 1,916,973; July 4.
Sound translating device. G. E. Atkins. 1,917,007; July 4.
Sound translating device. D. G. Blattner. 1,917,012; July 4.
Sound translating device. L. G. Bostwick. 1,917,013; July 4.
Sound translating device. W. Kalin. 1,916,223; July 4.
Spanners, Making adjustable. J. F. G. Chobert. 1,916,605; July 4.
Spark arrester. W. H. Hinsch. 1,916,762; July 4.
Speed control valve. W. C. Muller. 1,916,433; July 4.
Spike setting device. F. F. Zavatkay. 1,916,708; July 4.
Spinning machine. F. Piron. 1,917,058; July 4.
Splint, Clavicle. J. J. Ettinger. 1,917,106; July 4.
Spool. O. Bochmann. 1,916,822; July 4.
Spooling device for drum cables. R. G. Le Tourneau. 1,916,732; July 4.
Spoon holder for two edge cutting blades, Pile wire. F. Dehler. 1,917,019; July 4.
Spoon or article of analogous nature. H. E. Nock. Des. 90,259; July 4.
Spray extractor. G. Raymond. 1,916,528; July 4.
Spring structure for lateral motion trucks, Volute. C. J. Holland. 1,916,317; July 4.
Spring unit and forming same, Fixed size. R. S. Jones. 1,916,512; July 4.
Stacking fixture. R. E. Dowdell. 1,916,755; July 4.
Stage, Extensible. F. A. Bird. 1,917,010; July 4.
Stage for microscopes, Universal. R. C. Emmons. 1,916,609; July 4.
Stage, Telescoping. F. A. Bird. 1,917,011; July 4.
Stake, Plant. W. B. Esselen. 1,916,305; July 4.
Stalk cutter. L. A. Hacker. 1,916,613; July 4.
Stall front. H. L. Ferris. 1,916,972; July 4.
Stamp printing machine, Hot. E. T. Knitter. 1,916,575; July 4.
Stand: *See*—
Cylinder grinding stand. Display stand.
Stapling machine. S. H. Hunt. 1,917,122; July 4.
Starch conversion product and making same. J. Wachman and G. B. Sippel. 1,916,872; July 4.
Starting motor switch. L. B. Ehrlich. 1,917,104; July 4.
Steam boiler. H. W. Butler. 1,916,254; July 4.
Steam by means of superheated heating steam, Indirect generation of. H. Trede and O. H. Hartmann. 1,917,166; July 4.
Stereoscopic plate shifter. M. Morrison. 1,916,383; July 4.
Steriliser. G. McNab. 1,916,804; July 4.
Stock fabricating machine, Long. J. H. Roberts. 1,916,991; July 4.
Stock feeder. H. J. Helder. 1,916,570; July 4.
Stocking inspecting device. A. C. Schoen. 1,917,067; July 4.
Stoker, Water cooled. J. S. Bennett. 1,916,713; July 4.
Stop and waste valve, Compound compression. C. A. Newberg. 1,916,384; July 4.
Stop, Plug. F. H. Mueller and J. W. Simpson. 1,916,632; July 4.
Stop, Top. E. W. Rutherford. 1,916,390; July 4.
Stove, Coal. G. L. Bridge. Des. 90,231; July 4.
Straining attachment for pans and kettles. R. W. Alexander. 1,916,710; July 4.
Straining device. A. Yurkovitch. 1,916,456; July 4.
Strainer, Fluid. G. J. Heinz. 1,917,203; July 4.
Stretcher, Curtain. J. A. Anderson. 1,917,084; July 4.
Strip delivery mechanism for punch presses and the like. G. H. Leland. 1,916,378; July 4.
Strut, Collapsible. C. Greene. 1,916,882; July 4.
Subassembly for electrical heaters. F. Kuhn and L. H. Thomas. 1,916,672; July 4.
Substances from solutions thereof, Separating. K. Burroughs. 1,916,825; July 4.
Sugar measuring and serving device. J. Acosta. 1,916,819; July 4.
Sulphur compounds from gases, Removal of. K. Braus. 1,916,824; July 4.
Superregenerative receiver. C. A. Gunther. 1,917,113; July 4.
Support: *See*—
Checker support. Shelf support.
Fixture support.
Support. H. B. G. Galt. 1,916,612; July 4.
Support for automobile hoods. K. D. Storch. 1,917,074; July 4.
Suspension for vehicles. A. Dubonnet. Re18,885; July 4.
Switch: *See*—
Electric switch. Starting motor switch.
Motor operating switch.
Switch. C. A. Landin. 1,916,675; July 4.
Switch. M. H. Rhodes. 1,916,867; July 4.
Switch and switching system, Rotary. T. G. Le Clair and C. M. Gross. 1,916,844; July 4.
Switch and the like, Mercury. F. S. Armstrong. 1,916,957; July 4.
Switch assembly, Thermostatic. F. Kuhn and L. H. Thomas. 1,916,670; July 4.
Switch device, Time controlled. A. P. Hodge. 1,916,665; July 4.
Switch for electric sewing machines, Control. E. Khayat. 1,916,268; July 4.
Synchronizing mechanism film printing machines, Automatic. C. de Moos. 1,916,919; July 4.
Synchronous motor. H. E. Warren. 1,917,172; July 4.
Syringe, Medical. N. Kovacs. 1,916,428; July 4.
Table: *See*—
Bed side table. Folding table.
Draw-leaf table.
Table and mirror, Combined dressing. F. M. McClure. Des. 90,254; July 4.
Tabulating, calculating, and similar machine. G. Tauschek. 1,916,998; July 4.
Tabulator, Debit and credit. H. A. Weinlich. 1,917,002; July 4.
Tank: *See*—
Pickling tank.
Tank filler-cap lock. W. P. Lowther. 1,916,518; July 4.
Tank for petrol and like inflammable liquids, Storage. J. F. Martyn and R. J. Leggett. 1,917,138; July 4.
Tea extract paste. A. A. Epstein. 1,916,468; July 4.
Teat cup, Milking machine. J. L. Hulbert. 1,916,830; July 4.
Telegraph system. H. Wood. 1,916,243; July 4.
Telephone exchange system. I. H. Henry. 1,916,760; July 4.
Telephone exchange system. I. H. Henry and R. E. Hersey. 1,916,761; July 4.
Telephone system. H. M. Friendly. 1,917,024; July 4.
Telltale means. T. Midgley, jr. 1,917,048; July 4.
Temperature controlled apparatus. J. A. Spencer. 1,916,498; July 4.
Temperature indicator. E. Kirch. 1,917,129; July 4.
Temperature indicator. H. O. Stephens and F. H. Kierstead. 1,917,163; July 4.
Temperature of chemically reacting liquids, Controlling the. H. O. Forrest and P. K. Frolich. 1,916,473; July 4.
Temperature responsive device. E. Tyden. 1,917,001; July 4.
Tension regulator. E. Eger. 1,916,467; July 4.
Testing apparatus, Automatic. A. B. Du Mont. 1,916,364; July 4.
Testing system. P. G. Edwards. 1,916,304; July 4.
Textile fabric. E. Greenspan. Des. 90,274; July 4.
Textile fabric. E. Hecker. Des. 90,275; July 4.
Textile fabric, Cord embroidered. N. Eisenstadt. Des. 90,238; July 4.
Textile fabric or similar article. J. M. Gottesman. Des. 90,243; July 4.
Textile fabric or similar article. M. Guhl. Des. 90,244; July 4.
Textile fabric or similar article. J. Overmeyer. Des. 90,260; July 4.
Textile fabric or similar article. J. Schweizer. Des. 90,263; July 4.
Textile fabric or similar article. W. Willhelm. Des. 90,273; July 4.
Therapeutic appliance. G. E. Crosley. 1,916,561; July 4.

Thermostat. C. A. Hanser and E. A. Lockwood. 1,916,671; July 4.
Thermostat. F. Kuhn and L. H. Thomas. 1,916,669; July 4.
Thread cutting mechanism, Intermittently operating. F. E. Douglas. 1,916,754; July 4.
Thrust plate. L. J. Schumaker. 1,916,993; July 4.
Thumb protector. A. M. Dougah. 1,916,921; July 4.
Tile. T. E. McCutcheon. 1,917,139; July 4.
Tile, Paving. H. E. Muchnic. 1,916,631; July 4.
Timing device for machinery. G. C. Smith. 1,916,745; July 4.
Timing mechanism. W. O. Beck. 1,917,008; July 4.
Tire. G. Hubach. Des. 90,252; July 4.
Tire chain, Nonskid. C. L. Smith. 1,917,161; July 4.
Tire cover, All metal. L. Ricci. 1,917,157; July 4.
Tire groover. W. F. Errig and G. M. Pfundt. 1,916,258; July 4.
Tire pump. E. J. Sullivan. 1,916,342; July 4.
Tire shaping machine. A. L. Heston. 1,916,422; July 4.
Titanium compounds, Precipitating. L. W. Ryan. 1,916,236; July 4.
Tobacco pipe. J. D. Burger. Des. 90,232; July 4.
Tool: *See*—
Frazing tool. Sander tool.
Positioning tool.
Toothbrush. H. Seeliger. 1,916,641; July 4.
Tooth crown and making the same. F. O. Jacques. 1,916,321; July 4.
Tooth paste. F. C. Atkinson. 1,916,403; July 4.
Torch body or handle, Welding. D. M. Hasbrouck. Des. 90,248; July 4.
Tower, Atmospheric cooling. P. E. Fluor. 1,916,724; July 4.
Tower, Rescue. A. Bacinich. 1,916,294; July 4.
Toy. L. Turchanyi. Des. 90,270; July 4.
Toy balloon with openings, Inflatable. F. B. Pastir. 1,916,527; July 4.
Toy construction block. C. H. Pajeau. 1,916,634; July 4.
Toy machine-gun. F. E. Miller. 1,916,680; July 4.
Toy, Tunnel. B. Clark. 1,917,018; July 4.
Toy vehicles, Unit for. H. T. Kingsbury. 1,917,128; July 4.
Toy, Wheel. A. Chiosta. 1,916,879; July 4.
Tractor guide. F. L. Willrodt. 1,916,546–7; July 4.
Transformer. A. J. Williams. 1,916,352; July 4.
Transmission. H. D. Church. 1,916,855; July 4.
Transmission. P. L. Tenney. 1,916,501; July 4.
Transmission, Speed change. M. Pressler. 1,916283; July 4.
Transmission system, Composite. D. A. Quarles. 1,917,061; July 4.
Transmission system, Gyro compass, J. L. Chantemerle. 1,917,017; July 4.
Transmitter, High frequency. W. Langewiesche. 1,916,843; July 4.
Transmitting system. J. P. Barton. 1,916,404; July 4.
Trap: *See*—
Animal trap. Drain trap.
Double jaw trap.
Trap for catching animals alive. W. A. Gibbs. 1,917,111; July 4.
Tray and glass holder, Combination ash. A. W. Becker. Des. 90,229; July 4.
Tray and supports therefor, Ash. K. B. Johnson. 1,916,619; July 4.
Tread member. B. Bronson. 1,916,461; July 4.
Triaryl stibine solution. L. Kaufmann. 1,917,207; July 4.
Truck, Hand. S. J. Pehrsson. 1,916,850; July 4.
Tube: *See*—
Electric discharge tube. Vacuum tube.
Oscillator tube. X-ray tube.
Tube and making, Copper and copper alloy. F. W. and L. H. French, and H. B. Rath. 1,916,474; July 4.
Tube holder. G. Kershaw. 1,916,862; July 4.
Tube paste dispenser. G. U. Carter. 1,916,944; July 4.
Tubes, Making gill ring. F. E. Key. 1,916,574; July 4.
Tufting machine, Motor operated. L. P. Smith. 1,917,162; July 4.
Tunnels, Method of and apparatus for forming. A. W. Warner and R. F. Ballard. 1,917,170; July 4.
Turbines, Manufacture of Francis runners for hydraulic. G. A. Jesson and D. C. De Vine. 1,917,037; July 4.
Turf edger. J. F. Biringer. 1,916,749; July 4.
Turf restorator. F. Grossi. 1,916,508; July 4.
2-amino-10-anthronés and preparing the same. I. Gubelmann, H. J. Weiland, and O. Stallmann. 1,916,216; July 4.
Typewriting machine. W. A. Dobson. 1,917,021; July 4.
Typewriting machine. W. F. Helmond. 1,916,371; July 4.
Undergarment. W. M. Hastings. 1,917,213; July 4.
Universal joint. A. H. Rzeppa. 1,916,442; July 4.
V-8 engine. C. L. McCuen. 1,916,522; July 4.
Vacuum cleaner. G. W. Allen. 1,916,353; July 4.
Vacuum stabilizer. H. Hueber and E. C. Horton. 1,917,193; July 4.
Vacuum tube. A. B. Colby. 1,916,204; July 4.
Valve: *See*—
Radiator valve. Speed control valve.
Relief control valve. Stop and waste valve.
Valve. H. L. Mason. 1,916,767; July 4.
Valve. H. Miller and M. Eule. 1,916,738; July 4.
Valve. H. A. Rike. 1,916,490; July 4.
Valve. A. V. Saharoff. 1,916,685; July 4.
Valve. E. Tyden. 1,917,000; July 4.
Valve bags, Method and apparatus for manufacturing. A. Andreas. 1,916,293; July 4.
Valve for organ pipes, Electrically operated. B. G. Austin. 1,916,820; July 4.
Valve for vapor heating systems, Vacuum air. C. W. Stewart. 1,916,696; July 4.
Valve for vapor heating system, Vacuum check air. W. K. Simpson. 1,916,695; July 4.
Valve grinding machine. B. T. Steber. 1,916,775; July 4.
Valve organization for playing balls and the like. O. A. Savaria. 1,916,935; July 4.
Valve guide. W. H. Manning. 1,916,520; July 4.
Valve lifter, Zero lash. O. Burkhardt. 1,916,191; July 4.
Vaporizing system for commercial liquefied hydrocarbons. E. E. Porter. 1,917,154; July 4.
Vault, Burial. A. F. H. Scott. Des. 90,264; July 4.
Vehicle seat. M. H. Toncray and J. W. Greig. 1,916,346; July 4.
Vehicle, Snow. O. R. Steele. 1,916,643; July 4.
Vehicle wheel. J. H. Wagenhorst. 1,916,747; July 4.
Vehicles, Folding hood for. C. G. Higgins. 1,915,313; July 4.
Vehicles, Foot throttle for motor. L. Jacoby. 1,917,036; July 4.
Vending machine. M. H. Richardson. 1,916,530; July 4.
Ventilating and air-conditioning apparatus. D. A. Sargent. 1,916,907; July 4.
Ventilator: *See*—
Window ventilator.
Vessel, Jacketed. I. W. Bringmann. 1,916,751; July 4.
Vessels, Fore and aft rigged. E. L. Blackman. 1,916,459; July 4.
Volume control system for radioreceivers. E. R. Hentschel. 1,916,795; July 4.
Voting machine. R. H. Zschau. 1,916,505; July 4.
Wagon, Dump. E. R. Greer. 1,916,928; July 4.
Washer or gasket, Metal joint. A. F. Wills. 1,917,175; July 4.
Washer: *See*—
Lock washer.
Washing machine. G. H. Myrick. 1,916,806; July 4.
Watch movements, Mounting an anchor bridge in. A. Kunz and C. F. Perret. 1,916,955; July 4.
Water for cooling brake rims, Distribution of. A. E. Rice and L. E. Zerbe. Re18,887; July 4.
Water heater. G. A. Matteson. 1,916,625; July 4.
Water pressure cleaner. E. Larue. 1,916,430; July 4.
Water, Softening. W. H. Green. 1,916,367; July 4.
Water storage heater. L. P. Hynes and H. A. Williams. 1,916,861; July 4.
Waxer and polisher, Floor. L. M. Appleford. 1,916,649; July 4.
Weighing device for wagons. K. Aihara. 1,917,080; July 4.
Weight or similar article, Paper. O. H. Beall and O. De Cardy. 90,228; July 4.
Welding. H. S. Holmes. 1,916,373; July 4.
Welding machine and welding, Electric. J. L. Adams, jr. 1,917,210; July 4.
Welding transformer, Rotary. T. M. Hunter. 1,916,218; July 4.
Well apparatus. J. Littell. 1,917,135; July 4.
Wet-treatment, especially for washing textile goods in the form of fabrics, Process for. C. J. Früh. 1,916,946; July 4.
Wheel: *See*—
Buffing wheel. Vehicle wheel.
Demountable spoked wheel.
Windshield heater. R. E. Evans. 1,917,023; July 4.
Windshield heater. F. H. Rowe. 1,916,895; July 4.
Window, Electrically operated. E. Mosher. 1,916,579; July 4.
Window operator and lock, Casement. W. E. Drummond. 1,916,562; July 4.
Window regulator. S. W. Nicholson. 1,916,865; July 4.
Window, Robbery proof cashier's. J. J. Gloria. 1,916,828; July 4.
Window structure. H. W. Nagel. 1,916,681; July 4.
Window ventilator. I. T. Bennett. 1,916,355; July 4.
Window ventilator. G. G. Carlson. 1,917,186; July 4.
Wiper arm construction, Windshield. J. B. Whitted. 1,916,544; July 4.
Wiper mechanism for windshields and the like. J. Bornstein. 1,917,200–1; July 4.
Wiper, Oil gauge. H. A. Peck. 1,916,933; July 4.
Wire. H. K. Rader. 1,916,989; July 4.
Wire heating apparatus. W. M. Hepburn and R. S. Fearnside. 1,916,372; July 4.
Wrench for screw caps of jars and bottles. J. E. Bevington and B. B. West. 1,916,554; July 4.
Writing implement. R. Black. 1,916,109; July 4.
X-ray apparatus. A. Bouwers and W. H. Boldingh. 1,917,090; July 4.
X-ray tube. W. D. Coolidge. 1,917,099; July 4.
Zirconium, silicon and alkali metal solutions and making same. C. J. Kinzle. 1,916,226; July 4.

CLASSIFICATION OF PATENTS

ISSUED JULY 4, 1933

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 2: 1,917,122
2— 8: 1,916,678
14: 1,916,628
1,916,630
16: 1,917,117
21: 1,916,921
78: 1,917,213
91: 1,916,507
131: 1,917,177
132: 1,916,794
4— 109: 1,916,357
5— 269: 1,916,512
334: 1,916,640
349: 1,916,433
8— 2: 1,917,168
5: 1,917,101
19: 1,916,946
1,917,065
9— 2: 1,916,496
10— 72: 1,916,432
12— 1: 1,916,455
2: 1,916,263
4: 1,916,275
7: 1,916,436
38: 1,916,265
128.2: 1,917,041
15— 16: 1,916,353
60: 1,916,568
128: 1,916,430
167: 1,916,641
176: 1,916,334
210: 1,916,933
229: 1,916,213
1,916,214
1,916,834
255: 1,916,544
16— 41: 1,916,663
66: 1,916,571
82: 1,916,882
99: 1,916,674
3.5: 1,916,748
5.3: 1,916,996
18: 1,917,110
19: 1,916,368
1,916,798
47.5: 1,916,949
50: 1,916,285
1,916,286
1,916,287
54: 1,916,831
55: 1,916,495
1,916,602
19— 130: 1,917,068
20— 1.01: 1,916,626
20: 1,917,127
40.6: 1,917,023
22— 65: 1,916,206
98: 1,916,217
23— 1: 1,916,825
2: 1,916,980
3: 1,916,551
1,916,824
16: 1,916,226
52: 1,916,907
53: 1,916,797
71: 1,916,303
89: 1,916,457
123: 1,916,903
137: 1,916,903
160: 1,916,537
165: 1,916,431
1,916,594
200: 1,916,553
202: 1,916,236
217: 1,916,922
233: 1,916,249
243: 1,916,770
250: 1,917,073
1,917,207
24— 19: 1,917,192
73: 1,917,149
1,917,150
90: 1,916,733
115: 1,916,937
123: 1,917,143
24— 138: 1,916,856
192: 1,917,151
205: 1,916,300
224: 1,916,829
248: 1,916,278
1,916,540
25— 118: 1,916,796
122: 1,917,062
142: 1,916,363
156: 1,916,836
1,917,181
27— 12: 1,917,152
30: 1,916,941
33: 1,916,362
29— 26: 1,916,618
84: 1,916,445
1,916,821
86.4: 1,916,828
1,916,827
103: 1,916,259
1,916,824
10: 1,916,306
1,916,939
38: 1,916,573
45— 2: 1,916,397
11: 1,916,288
1,916,823
24: 1,917,084
75: 1,916,619
82: 1,916,667
85: 1,916,591
111: 1,916,537
1,916,832
113: 1,916,648
137: 1,916,336
46— 35: 1,916,634
40: 1,916,578
1,916,811
48: 1,917,128
53: 1,916,527
47— 33: 1,916,494
41: 1,916,583
44: 1,916,868
47: 1,916,305
48— 85: 1,916,576
184: 1,917,040
216: 1,916,592
49— 5: 1,917,140
54: 1,916,668
55: 1,917,199
56: 1,916,666
63: 1,916,262
77.5: 1,916,954
51— 26: 1,917,178
34: 1,916,267
50: 1,916,916
125: 1,916,783
129: 1,916,775
1,916,917
158: 1,916,929
170: 1,916,543
193: 1,916,759
214: 1,916,600
218: 1,916,936
52— 13: 1,916,763
53— 3: 1,916,369
8: 1,916,710
55— 61: 1,916,613
83: 1,916,720
1,916,721
56— 13: 1,916,704
58— 104: 1,916,955
60— 1: 1,916,235
14: 1,916,242
52: 1,917,055
64: 1,917,171
61— 41: 1,916,726
53: 1,916,702
69: 1,916,204
76: 1,917,066
83: 1,916,684
85: 1,917,170
62— 4: 1,916,315
103: 1,917,043
104: 1,916,901
116: 1,916,746
117: 1,917,006
119.5: 1,916,886
126: 1,916,197
1,917,045
131: 1,917,056
64— 91: 1,916,442
66— 114: 1,916,676
68— 38: 1,917,096
70— 14: 1,916,890
46: 1,917,136
90: 1,916,518
91: 1,916,266
1,916,848
71— 7: 1,916,429
9: 1,916,617
1,916,841
72— 18: 1,917,139
36: 1,916,308
73— 31: 1,917,145
52: 1,917,120
1,917,163
110: 1,916,188
167: 1,916,920
184: 1,916,211
74— 1: 1,916,377
6: 1,916,309
1,916,310
7: 1,916,871
1,916,990
14: 1,916,893
1,917,200
1,917,201
26: 1,916,533
28: 1,916,391
29: 1,916,482
39: 1,916,892
1,916,896
48: 1,916,655
57: 1,916,501
58: 1,916,855
1,916,891
81: 1,917,036
92: 1,916,283
99: 1,916,715
108: 1,916,978
74— 109: 1,916,659
110: 1,916,323
75— 1: 1,916,338
1,916,496
1,916,602
1,916,780
65: 1,916,863
76— 5: 1,916,904
104: 1,916,416
114: 1,916,605
77— 62: 1,916,414
78— 46: 1,916,623
96: 1,916,606
80— 54: 1,916,443
60: 1,916,677
81— 3: 1,916,554
5.5: 1,917,183
41: 1,916,556
82— 1: 1,916,253
4: 1,916,103
1,916,258
19: 1,916,581
83— 6: 1,916,773
11: 1,916,197
91: 1,916,402
84— 339: 1,916,820
85— 1: 1,916,225
87— 9: 1,917,069
17: 1,916,421
88— 1: 1,916,529
14: 1,916,589
16.6: 1,916,320
24: 1,916,567
39: 1,916,009
50: 1,916,601
61: 1,916,739
89— 36: 1,916,524
90— 33: 1,916,516
58: 1,916,212
91— 39: 1,916,640
67.95: 1,916,606
68: 1,916,970
1,917,176
70: 1,916,333
92— 30: 1,916,393
38: 1,917,098
49: 1,917,164
93— 6: 1,916,847
7: 1,916,515
19: 1,916,664
27: 1,916,293
36: 1,916,281
39: 1,916,981
44: 1,916,425
54: 1,916,440
59: 1,917,126
94— 7: 1,917,014
11: 1,916,461
12: 1,916,631
13: 1,916,620
39: 1,916,563
1,916,887
1,917,130
95— 1.1: 1,916,282
7: 1,916,350
1,916,779
8: 1,917,032
75: 1,916,910
90.5: 1,916,307
97— 47: 1,916,945
49: 1,916,341
1,916,546
1,916,547
55: 1,916,350
179: 1,916,537
203: 1,916,333
222: 1,916,330
227: 1,916,724
1,916,725
1,916,749
98— 2: 1,917,003
97: 1,917,186
99— 1: 1,916,812
11: 1,916,468
1,916,918
100— 54: 1,916,347
57: 1,916,220
100— 57: 1,916,221
101— 3: 1,916,636
19: 1,916,906
20: 1,916,538
25: 1,916,661
28: 1,917,059
49: 1,916,564
58: 1,916,998
96: 1,916,964
100: 1,916,575
142: 1,916,454
378: 1,916,777
102— 36: 1,916,244
39: 1,916,245
103— 4: 1,916,626
41: 1,917,169
42: 1,916,433
178: 1,916,756
213: 1,916,948
104— 17: 1,916,708
82: 1,917,202
63: 1,916,999
105— 37: 1,916,201
42: 1,917,118
119: 1,916,480
1,916,470
280: 1,916,560
377: 1,917,167
406: 1,916,343
423: 1,916,344
106— 8: 1,916,289
1,917,027
9: 1,916,971
11: 1,917,112
25: 1,916,716
107— 1: 1,917,137
3: 1,916,960
14: 1,916,411
1: 1,916,406
2: 1,916,752
111— 1: 1,916,508
1,916,752
112— 62: 1,916,388
90: 1,917,162
220: 1,916,960
113— 1: 1,916,260
7: 1,916,255
1,916,910
120: 1,916,910
114— 91: 1,916,459
160: 1,916,802
162: 1,916,597
116— 20: 1,916,734
114: 1,917,048
129: 1,917,079
142: 1,917,194
118— 40: 1,917,158
49: 1,916,830
119— 18.5: 1,916,951
23: 1,916,878
51: 1,916,570
61: 1,916,790
110: 1,916,953
140: 1,916,972
120— 0: 1,916,199
14: 1,917,144
52: 1,917,185
57: 1,916,200
87: 1,916,889
108: 1,916,808
121— 34: 1,917,054
38: 1,917,124
45: 1,917,116
194: 1,916,282
122— 1: 1,916,426
4: 1,916,713
33: 1,917,166
135: 1,916,625
234: 1,916,319
235: 1,916,254
396: 1,916,276
1,916,277
434: 1,916,736
123— 14: 1,916,318
18: 1,917,180
81: 1,916,550
90: 1,916,191
119: 1,916,326
123— 119: 1,916,938
122: 1,916,500
1,916,952
124: 1,916,267
142: 1,916,705
148: 1,916,694
1,917,046
171: 1,917,206
188: 1,916,520
198: 1,916,506
124— 13: 1,916,680
126— 4: 1,916,297
99: 1,916,644
127— 32: 1,916,872
128— 78: 1,917,106
87: 1,916,780
96: 1,916,208
184: 1,916,658
101: 1,916,345
1,917,182
216: 1,916,426
129— 1: 1,916,730
16: 1,916,210
1,916,398
24: 1,916,396
34: 1,916,200
131— 12: 1,916,729
20: 1,916,774
52: 1,916,799
132— 36: 1,916,687
38: 1,916,948
92: 1,916,653
133— 1: 1,917,091
4: 1,916,246
1,916,271
134— 13: 1,916,584
39: 1,916,607
57: 1,916,805
60: 1,916,291
1,916,545
136— 111: 1,916,698
1,916,709
137— 53: 1,916,766
1,916,767
68: 1,916,807
76: 1,916,911
111: 1,916,653
1,917,033
139: 1,917,092
145: 1,916,758
153: 1,916,635
160: 1,916,908
130— 4: 1,916,290
44: 1,917,019
243: 1,916,359
266: 1,916,754
401: 1,916,932
140— 93: 1,916,940
141— 9: 1,916,806
143— 17: 1,916,908
144— 3: 1,916,701
309: 1,917,020
146— 47: 1,916,209
88: 1,916,808
94: 1,916,596
123: 1,917,198
216: 1,916,809
219: 1,916,623
147— 2: 1,916,281
148— 15: 1,916,407
16: 1,916,474
20: 1,916,981
149— 6: 1,916,528
150— 1.5: 1,916,612
151— 32: 1,916,526
35: 1,916,526
152— 14: 1,917,161
154— 2: 1,916,425
8: 1,916,361
10: 1,916,422
42: 1,916,311
155— 14: 1,916,346
96: 1,916,800
117: 1,916,771
140: 1,916,772
156— 10: 1,916,898
13: 1,916,679

156— 15: 1,916,788
20: 1,916,719
22: 1,916,835
38: 1,916,707
158— 1: 1,917,068
76: 1,917,031
116: 1,916,572
119: 1,916,963
161— 1: 1,916,745
19: 1,917,008
164— 22: 1,916,380
49: 1,916,991
60: 1,917,187
86: 1,916,419
166— 19: 1,917,211
20: 1,916,875
21: 1,916,686
167— 74: 1,916,478
93: 1,916,403
169— 19: 1,917,001
36: 1,916,351
171— 97: 1,916,844
1,916,925
1,916,927
119: 1,917,146
208: 1,916,374
209: 1,916,700
212: 1,916,256
228: 1,916,240
1,916,241
1,916,462
252: 1,916,339
313: 1,916,975
1,917,007
314: 1,916,307
1,916,316
172— 179: 1,916,484
233: 1,916,389
237: 1,917,081
1,917,082
239: 1,916,447
1,916,706
275: 1,916,909
1,917,172
278: 1,916,270
1,917,173
281: 1,917,107
290: 1,916,491
173— 31: 1,916,335
259: 1,916,728
263: 1,916,488
318: 1,916,400
328: 1,916,194
1,917,009
174— 89: 1,916,722
177: 1,916,561
175— 41: 1,917,212
41.5: 1,917,077
179: 1,916,415
183: R. 18,889
1,916,304
294: 1,916,439
315: 1,916,586
356: 1,916,352
361: 1,916,588
363: 1,916,424
1,916,587
368: 1,916,732
176— 2: 1,916,366
177— 311: 1,917,067
329: 1,917,165
351: 1,916,737
1,917,017
178— 17: 1,916,243
52: 1,917,195
63: 1,917,016
71: 1,916,239
179— 1: 1,917,035
2.5: 1,917,052
1,917,061
27: 1,916,760
1,916,761
1,917,024
90: 1,917,049
179— 90: 1,917,050
1,917,051
100.3: 1,916,510
100.4: 1,916,973
1,917,003
100.41: 1,916,703
115.5: 1,917,012
171: 1,916,818
1,917,015
1,917,102
1,917,204
175.3: 1,916,231
180— 5: 1,916,375
6: 1,916,643
181— 31: 1,916,228
1,917,007
32: 1,917,013
1,917,072
183— 2.6: 1,916,614
2.7: 1,916,528
184— 3: 1,917,189
6: 1,916,248
1,916,522
7: 1,916,251
1,917,191
27: 1,917,190
185— 39: 1,916,873
186— 1: 1,916,521
187— 95: 1,916,365
188— 10: 1,916,654
55: 1,916,784
1,916,785
78: 1,916,881
251: 1,917,184
258: 1,916,387
264: R. 18,887
189— 31.5: 1,916,382
34: 1,916,189
46: 1,916,557
1,916,558
1,916,559
67: 1,916,681
76: 1,916,913
191— 2: 1,917,063
192— 22: 1,916,324
43: 1,917,133
46: 1,916,786
82: 1,916,914
127: 1,916,379
194— 1: 1,916,234
1,916,590
1,916,992
196— 62: 1,916,441
107: 1,916,205
116: 1,916,450
139: 1,916,690
197— 1: 1,916,272
70: 1,916,905
82: 1,917,021
126: 1,917,100
138: 1,916,371
198— 21: 1,916,532
30: 1,916,959
38: 1,917,004
39: 1,916,531
127: 1,916,541
1,916,840
171: 1,917,134
224: 1,916,595
200— 17: 1,916,360
35: 1,916,665
38: 1,916,485
39: 1,916,867
40: 1,916,769
52: 1,917,104
56: 1,916,420
67: 1,916,849
81: 1,916,427
87: 1,916,593
97: 1,916,942
133: 1,916,616
134: 1,916,711
135: R. 18,886
138: 1,916,669
1,916,957
200— 139: 1,916,670
1,916,671
142: 1,916,481
144: 1,916,418
146: 1,916,565
150: 1,917,155
152: 1,916,268
168: 1,916,717
172: 1,916,675
201— 48: 1,916,534
202— 7: 1,917,196
20: 1,916,900
40: 1,916,349
116: 1,916,331
141: 1,916,348
228: 1,916,718
204— 1: 1,916,503
1,916,947
1,917,022
1,917,039
1,917,188
11: 1,916,465
1,916,492
206— 16: 1,916,918
1,916,984
41.4: 1,916,727
44: 1,916,227
46: 1,916,994
1,916,995
52: 1,916,712
65: 1,916,755
72: 1,916,238
207— 10: 1,916,645
208— 155: 1,916,879
209— 6: 1,916,858
18: 1,916,392
1,917,156
81: 1,916,364
102: 1,917,068
110: 1,916,801
121: 1,916,552
166: 1,916,196
210— 24: 1,916,367
51.5: 1,916,842
55: 1,916,460
64: 1,917,203
131: 1,917,121
150: 1,916,456
211— 49: 1,916,683
156: 1,916,471
1,916,647
157: 1,917,005
212— 38: 1,917,160
50: 1,917,053
213— 22: 1,916,846
188: 1,917,028
214— 75: 1,916,869
215— 37: 1,916,977
40: 1,916,606
43: 1,916,976
51: 1,916,857
220— 6: 1,916,662
23: 1,916,859
220— 27: 1,916,279
38: 1,917,063
62: 1,917,174
65: 1,916,493
88: 1,917,136
221— 16: 1,916,196
51: 1,916,204
60: 1,916,944
94: 1,916,513
97: 1,916,326
98: 1,916,819
119: 1,916,781
222— 3: 1,916,417
223— 18.6: 1,916,328
19: 1,917,067
64: 1,917,086
224— 29: 1,917,157
55: 1,916,793
226— 17: 1,916,838
88.1: 1,917,025
228— 46: 1,916,252
67: 1,916,208
229— 7: 1,916,230
21: 1,916,519
34: 1,917,132
38: 1,917,120
47: 1,917,115
57: 1,916,884
230— 97: 1,916,762
133: 1,917,029
190: 1,917,057
231: 1,917,193
238: 1,916,342
256: 1,916,599
233— 29: 1,916,870
234— 5.8: 1,916,301
235— 1.5: 1,916,555
50: 1,916,505
79: 1,916,611
92: 1,916,232
1,916,624
1,916,961
1,916,969
1,916,985
1,916,986
1,916,987
1,916,997
1,917,002
130: 1,916,535
1,916,610
236— 14: 1,916,934
15: 1,916,401
21: 1,917,075
42: 1,916,814
61: 1,916,695
1,916,696
70: 1,916,477
240— 10: 1,916,750
10.64: 1,916,472
10.67: 1,917,060
41.4: 1,916,514
81: 1,916,322
85: 1,916,412
241— 8: 1,917,142
242— 11: 1,917,197
72: 1,916,822
130: 1,916,862
244— 2: 1,916,413
1,916,444
1,917,078
14: 1,916,813
21: 1,916,340
25: 1,916,956
29: 1,916,475
246— 41: 1,916,764
247— 2: 1,916,219
248— 31: 1,916,950
1,917,147
65: 1,916,202
142: 1,917,094
250— 8: 1,916,404
11: 1,916,388
1,917,114
17: 1,916,229
1,916,843
250— 20: 1,916,795
1,917,095
1,917,113
27: 1,916,405
1,916,446
1,917,064
27.5: 1,916,204
1,916,224
1,916,408
1,916,410
1,917,044
1,917,047
33: 1,917,205
34: 1,916,383
1,917,090
1,917,108
35: 1,917,099
36: 1,917,105
41.5: 1,916,356
251— 50: 1,916,738
97: 1,916,632
123: 1,917,000
252— 2: 1,916,902
57: 1,917,018
254— 29: 1,916,466
44: 1,916,884
93: 1,917,011
95: 1,916,517
100: 1,916,476
132: 1,916,463
134: 1,916,497
161: 1,916,699
190: 1,916,732
255— 19: 1,916,688
51: 1,917,069
76: 1,916,691
257— 8: 1,916,907
122: 1,917,154
136: 1,916,355
137: 1,916,549
206: 1,916,888
211: 1,916,751
245: 1,916,305
1,916,768
247: 1,917,042
251: 1,916,337
263: 1,916,656
259— 81: 1,917,119
103: 1,916,192
104: 1,916,885
144: 1,916,548
260— 2: 1,916,423
1,917,088
8: 1,916,295
11: 1,916,302
46: 1,916,629
60: 1,916,216
61: 1,916,312
64: 1,916,215
95: 1,916,621
1,916,778
97: 1,916,314
101: 1,916,273
1,916,274
102: 1,916,689
106: 1,916,776
108: 1,916,923
123: 1,916,657
1,917,153
124: 1,916,604
131: 1,916,741
134: 1,916,979
138: 1,916,743
154: 1,916,627
156: 1,917,179
160: 1,916,742
161: 1,916,327
172: 1,916,478
261— 18: 1,916,502
26: 1,916,577
45: 1,916,906
76: 1,917,125
92: 1,916,332
263— 3: 1,916,372
19: 1,916,370
263— 23: 1,916,569
51: 1,916,458
264— 4: 1,916,585
265— 1: 1,916,622
60: 1,916,962
71: 1,917,080
266— 42: 1,916,261
267— 4: 1,916,317
34: R. 18,885
268— 49: 1,916,490
58: 1,916,652
59: 1,916,651
108: 1,916,817
118: 1,916,562
124: 1,916,579
132: 1,916,865
271— 2.3: 1,916,467
2.4: 1,916,845
18: 1,916,378
23: 1,916,723
82: 1,916,965
272— 60: 1,916,809
72: 1,916,714
1,916,883
79: 1,916,660
273— 33: 1,916,740
55: 1,916,385
1,917,208
65: 1,916,935
77: 1,916,792
80: 1,916,791
1,916,963
277— 14: 1,916,384
46: 1,916,490
1,916,685
280— 33.1: 1,916,967
46: 1,916,850
150: 1,917,074
285— 20: 1,916,506
94: 1,917,070
111: 1,916,930
114: 1,916,479
142: 1,916,968
150: 1,916,284
175: 1,916,449
287— 53: 1,916,233
288— 1: 1,917,175
290— 1: 1,916,329
12: R. 18,888
292— 67: 1,916,650
100: 1,916,511
198: 1,916,816
263: 1,916,399
332: 1,917,159
294— 96: 1,917,135
100: 1,916,866
296— 84: 1,917,076
97: 1,916,499
108: 1,916,313
298— 35: 1,916,928
299— 17: 1,916,646
141: 1,916,912
301— 6: 1,916,747
9: 1,917,034
303— 39: 1,916,299
304— 9: 1,917,010
306— 2: 1,916,993
179: 1,917,148
187: 1,916,682
189: 1,916,897
227: 1,916,280
238: 1,916,744
309— 34: 1,916,451
1,916,452
312— 38: 1,916,542
62: 1,916,615
77: 1,916,453
79: 1,916,974
83: 1,916,757
86: 1,917,026
94: 1,916,530
112: 1,916,509
140: 1,916,894
150: 1,916,852

U. S. GOVERNMENT PRINTING OFFICE: 1933

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Acme Printing Ink Company, Chicago, Ill. Printing ink. Serial No. 338,695; July 11. Class 11.

Adams County Fruit Packing & Distributing Company, Inc., Biglerville, Pa. Peaches and apples. Serial No. 332,018; July 11. Class 46.

Allen, L. B., Company, Incorporated, Chicago, Ill. Soldering materials. Serial No. 326,682; July 11. Class 6.

Alox Chemical Corporation, New York, N. Y. Lubricating oils, gasoline, etc. Serial No. 335,979; July 11. Class 15.

Arden, Elizabeth, Inc., New York, N. Y. Lipstick and rouge. Serial No. 337,663; July 11. Class 6.

Aromel Corporation, New York, N. Y. Perfumes. Serial No. 335,627; July 11. Class 6.

Asparagus Plantations, Inc., West Palm Beach, Fla. Asparagus. Serial No. 334,901; July 11. Class 46.

Ault & Wiborg Company, The, New York, N. Y. Writing inks. Serial No. 336,852; July 11. Class 11.

Automatic Fire Equipment Company. (See Carr, Richard E.)

B. O. K. Co. (See Gallardo, Ernesto V.)

B. V. D. Company, Inc., The, Baltimore, Md. Union suits, shorts, etc. Serial No. 337,907; July 11. Class 39.

Badenhausen Corporation, Cornwells Heights, Pa. Steam generators. Serial No. 332,328; July 11. Class 34.

Baird-Taylor, Limited, Glasgow, Scotland. Whisky. Serial No. 338,352; July 11. Class 49.

Bancroft, Joseph, & Sons Co., Wilmington, Del. Cotton piece goods. Serial No. 338,274; July 11. Class 42.

Barsky, Joseph, doing business as Moth-Mist Laboratories, Atlantic City, N. J. Preparation for exterminating moths, etc. Serial No. 336,250; July 11. Class 6.

Bennett Glass & Paint Company, Salt Lake City, Utah. Floor wax. Serial No. 338,397; July 11. Class 16.

Berkshire Knitting Mills, Wyomissing and Reading, Pa. Hosiery. Serial No. 332,112; July 11. Class 39.

Best & Co., Inc., New York, N. Y. Dresses. Serial No. 337,552; July 11. Class 39.

Best & Co., Inc., New York, N. Y. Dolls, balls, etc. Serial No. 337,593; July 11. Class 22.

Bethke, Harvey R., Milwaukee, Wis. Cigarettes. Serial No. 335,494; July 11. Class 16.

Biltrite Motor Equipment Co. Inc., New York, N. Y. Brake renewer compounds, fabric cleaner compounds, etc. Serial No. 337,553; July 11. Class 4.

Bisceglis Bros., San Jose, Calif. Wines. Serial Nos. 338,447–9; July 11. Class 47.

Blood, John, & Co., Incorporated, Philadelphia, Pa. Hosiery. Serial No. 338,307; July 11. Class 39.

Blue Valley Creamery Company, Chicago, Ill. French dressings, etc., and sandwich spreads. Serial No. 337,773; July 11. Class 46.

Bob, H. D., Company, Inc., New York, N. Y. Shirts, blouses, pajamas, etc. Serial No. 337,687; July 11. Class 39.

Boisvert, Ferdinand, Springfield, Mass. Food flavoring extracts. Serial No. 327,303; July 11. Class 46.

Bona Allen, Incorporated, Buford, Ga. Boots and shoes. Serial No. 337,657; July 11. Class 39.

Brooklyn Wholesale Grocery Co., The, Brooklyn, N. Y. Canned fruits, fish, etc. Serial No. 338,030; July 11. Class 46.

Brown, Clarence S., & Company, Inc., New York, N. Y. Cotton fabrics in the piece. Serial No. 337,878; July 11. Class 42.

Buckeye Brewing Company, The, Toledo, Ohio. Malt beverages. Serial No. 337,729; July 11. Class 48.

Buromin Company, The, Pittsburgh, Pa. Water softening and water conditioning chemical. Serial No. 338,356; July 11. Class 6.

California Mission Vintage Co. (See Guerrieri, Louis.)

Campbell, Harry T., Sons Company, Towson, Md. Building stone, concrete, etc. Serial No. 337,831; July 11. Class 12.

Capital Flour Mills, Incorporated, Minneapolis, Minn. Wheat flour. Serial No. 336,494; July 11. Class 46.

Carpenter Paper Company, Omaha, Nebr. Paper bags. Serial No. 336,559; July 11. Class 2.

Carr, Richard E., doing business as Automatic Fire Equipment Company, Council Bluffs, Iowa. Portable fire extinguisher. Serial No. 336,145; July 11. Class 23.

Central California Producers, Oakland, Calif. Citrus fruits and vegetables. Serial No. 308,427; July 11. Class 46.

Century Foods, Inc., Chicago, Ill. Mayonnaise, salad dressings, etc. Serial No. 335,806; July 11. Class 46.

Champion Fibre Company, The, Canton, N. C. Sodium resinate, etc., for coal dust. Serial No. 337,912; July 11. Class 6.

Churchill, Hooper D., doing business as Churchill Company, Los Angeles, Calif. Board games. Serial No. 338,359; July 11. Class 22.

Churchill, Ralph H., doing business as Producers, Ltd., Chicago, Ill. Tire repair kits and supplies. Serial No. 332,613; July 11. Class 35.

Colgate-Palmolive-Peet Company, Chicago, Ill. Shaving cream. Serial No. 338,279; July 11. Class 4.

Colgate-Palmolive-Peet Company, Chicago, Ill. Dental cream. Serial No. 338,280; July 11. Class 6.

Colorado Fuel and Iron Company, The, Denver, Colo. Fertilizer. Serial No. 338,281; July 11. Class 10.

Continental Blade Corporation, Brooklyn, N. Y. Razors and blades. Serial No. 337,996; July 11. Class 28.

Conway, Henry A., doing business as Conway Brewing Co., Troy, N. Y. Malt beverages. Serial No. 337,914; July 11. Class 48.

Croft & Co., Limited, London, England. Port wine. Serial No. 336,927; July 11. Class 47.

Crown Ribbon & Carbon Mfg. Co., Rochester, N. Y. Carbon paper. Serial No. 337,841; July 11. Class 11.

Crystal Tissue Company, The, Middletown, Ohio. Waxed and tissue paper. Serial No. 337,875; July 11. Class 37.

Diascope Corporation, Ltd., San Francisco, Calif. X-ray tubes, electrical laboratory furnaces, etc. Serial No. 325,389; July 11. Class 21.

Dickinson & Co., Chicago and Eureka, Ill. Canned vegetables. 338,081–2; July 11. Class 46.

Donner & Hellegers, Inc., Passaic, N. J. Dry cleaning preparation. Serial No. 338,318; July 11. Class 4.

Dorf, B. B., & Co., Inc., New York, N. Y. Syrup for making soft drinks. Serial No. 316,770; July 11. Class 45.

Drew, Irving, Co., The, Portsmouth, Ohio. Shoes. Serial No. 337,158; July 11. Class 39.

Eagle Nut Products, Inc., Brooklyn, N. Y. Candies and chocolates. Serial No. 337,214; July 11. Class 46.

Earnshaw, Arthur R., doing business as Quik Manufacturing Company, Philadelphia, Pa. Scouring compound. Serial No. 332,690; July 11. Class 4.

Eastman Kodak Company, Rochester, N. Y. Floodlighting unit. Serial No. 337,735; July 11. Class 21.

El Dorado Refining Company, The, El Dorado, Kans. Gasoline. Serial No. 323,529; July 11. Class 15.

Elmberg Company, The, Ladysmith, Wis. Toy furniture and wood toys. Serial No. 337,068; July 11. Class 22.

Emery Food Company, Chicago, Ill. Vegetable drink or dessert preparation. Serial No. 337,632; July 11. Class 46.

Entroth Shoe Company, The, Dayton, Ohio. Shoes. Serial No. 337,844; July 11, 1933. Class 39.

Eye-Ons Company. (See Hayden, Delma S.)

First National Bank of Chicago, The, Chicago, Ill. Printed forms for transmitting money. Serial No. 337,510; July 11, 1933. Class 37.

Florex Gardens, Inc., The, North Wales, Pa. Flowers. Serial No. 337,633; July 11. Class 1.

Frankel, Harry, doing business as Singin' Sam, Richmond, Ind. Musical compositions and books. Serial No. 338,084; July 11. Class 38.

Fuld & Helmendinger, New York, N. Y. Veils and hair nets. Serial No. 337,511; July 11. Class 42.

Fullerizing, Inc., Cleveland, Ohio. Dry cleaning preparation. Serial No. 336,828; July 11. Class 4.

Gallardo, Ernesto V., doing business as B. O. K. Co., New York, N. Y. Preparation for indigestion. Serial No. 337,780; July 11. Class 6.

Geiger, J. W., Inc., New York, N. Y. Fabrics of oiled silk, etc. Serial No. 338,040; July 11. Class 50.

Gellman Bros., Minneapolis, Minn. Tool for household use. Serial No. 331,334; July 11. Class 23.

General Cable Corporation, New York, N. Y. Electrical conductors. Serial No. 338,284; July 11. Class 21.

General Conference of the Life-Savior Apostolic Benevolent Church, Denver, Colo. Laxative pills. Serial No. 331,715; July 11. Class 6.

General Drug Company, New York, N. Y. Preparation for keeping cut flowers fresh, etc. Serial No. 337,741; July 11. Class 6.

Gerstmann, Heinr., doing business as Firma Adolph Hamann, Dresden, Germany. Porcelain-ware. Serial No. 335,089; July 11. Class 30.

Giavi, F. N., Inc., New York, N. Y. Olive oil, canned fish, etc. Serial No. 316,558; July 11. Class 46.

Glemby Company, Inc., The, New York, N. Y. Hard rubber combs. Serial No. 337,846; July 11. Class 40.

Glemby Company, Inc., The, New York, N. Y. Hard rubber combs. Serial No. 337,848; July 11. Class 40.

Gloag, Matthew W., doing business as Matthew Gloag & Son, Perth, Scotland. Whisky. Serial No. 337,499; July 11. Class 49.

Goldblatt Bros., Inc., Chicago, Ill. Varnishes. Serial No. 338,043; July 11. Class 16.

Goodier, Elwood J., doing business as The Goodier Company, Dallas, Tex. Nasal drops. Serial No. 335,594; July 11. Class 6.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Rubber hose. Serial No. 337,294; July 11. Class 35.

Goral, Walter F., Fort Wayne, Ind. Ice cream. Serial No. 335,581; July 11. Class 46.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Goudey Gum Company, The, Boston, Mass. Chewing gum. Serial No. 338,144; July 11. Class 46.
Grsemiger Bros. Inc., New York, N. Y. Handkerchiefs. Serial No. 337,919; July 11. Class 42.
Grand Rapids Brewing Company, Grand Rapids, Mich. Malt beverages. Serial No. 336,435; July 11. Class 46.
Guerrieri, Louis, doing business as California Mission Vintage Co., Los Angeles, Calif. Wines. Serial No. 337,748; July 11. Class 47.
Hagler, Sam, New York, N. Y. Beauty clay, face powder, etc. Serial No. 334,309; July 11. Class 6.
Hall, T. B., & Co., Limited, Liverpool, England. Malt beverages. Serial No. 338,145; July 11. Class 48.
Hamann, Adolph, Firma. (See Gerstmann, Heinr.)
Hand, Peter, Company, doing business as Peter Hand Brewery Co., Chicago, Ill. Malt beverages. Serial No. 337,295; July 11. Class 48.
Hanes, P. H., Knitting Company, Winston-Salem, N. C. Wearing apparel. Serial No. 336,285; July 11. Class 39.
Hansen Packing Co. (See Romanoff Caviar Company.)
Hardin, John L., Laboratories Inc., The, Cincinnati, Ohio. Chemical compound for dry cleanings. Serial No. 328,921; July 11. Class 4.
Harvey, John, & Sons Limited, Bristol, England. Sherry wine. Serial No. 337,920; July 11. Class 47.
Hayden, Delma S., doing business as Eye-Ons Company, Toms River, N. J. Medicine for the eyes. Serial No. 337,565; July 11. Class 6.
Health Products Corporation, Newark, N. J. Cod liver oil concentrate. Serial No. 338,004; July 11. Class 6.
Hygiene Products Corporation, Union City, N. J. Corn, etc., plasters. Serial No. 337,523; July 11. Class 44.
Hynson, Westcott & Dunning, Incorporated, Baltimore, Md. Compositions for preventing and treating sunburn. Serial No. 338,192; July 11. Class 6.
International Shoe Co., St. Louis, Mo. Boots and shoes. Serial Nos. 337,881–2; July 11. Class 39.
Jenkins Bros., New York, N. Y. Jar rings. Serial No. 334,710; July 11. Class 35.
Jennison, W. J., Company, Minneapolis, Minn. Wheat flour. Serial No. 338,240; July 11. Class 46.
Johns-Manville Corporation, New York, N. Y. Thermal insulation material. Serial No. 337,528; July 11. Class 12.
Johnson & Johnson, New Brunswick, N. J. Bandaging material. Serial No. 336,288; July 11. Class 44.
Jo-Lo Nites, Inc., New York, N. Y. Card game. Serial No. 338,224; July 11. Class 22.
Jones, L. E., doing business as The No. 49 Company, Houston, Tex. Insect killer, laxative, salve, etc. Serial No. 336,649; July 11. Class 6.
Joy, Orchid, New York, N. Y. Cleansing cream. Serial No. 337,904; July 11. Class 6.
Kaplan, Rae C., New York, N. Y. Fabric cap. Serial No. 332,476; July 11. Class 40.
Kay, George, doing business as The Vita-Dyne Permanent Wave Supply Company, Chicago, Ill. Permanent waving pads. Serial No. 322,950; July 11. Class 44.
Keene, Bernard M., doing business as The B. M. Keene Co., Indianapolis, Ind. Medicinal preparation. Serial No. 337,473; July 11. Class 6.
Kimble Glass Company, Vineland, N. J. Glass tubes or rods. Serial No. 338,457; July 11. Class 33.
Kin-Septic Company, doing business as York Pharmacal Company, St. Louis, Mo. Antiseptic preparation. Serial No. 337,700; July 11. Class 6.
Kraft-Phenix Cheese Corporation, Chicago, Ill. Vegetable extract. Serial No. 338,196; July 11. Class 46.
Kress, S. H., & Co., New York, N. Y. Shoe polish. Serial No. 338,252; July 11. Class 4.
Krulwich, Bernard, & Co., New York, N. Y. Hats. Serial No. 334,896; July 11. Class 39.
L-B Chemical Co., The, Canton, Ohio. Hand lotion, shaving lotion, etc. Serial No. 337,883; July 11. Class 6.
Lances, Edith, New York, N. Y. Brassières. Serial No. 337,475; July 11. Class 39.
Langdon Textile Co., Inc., New York, N. Y. Cotton fabrics in the piece. Serial No. 337,568; July 11. Class 42.
Largay Brewing Co. Incorporated, Waterbury, Conn. Malt beverages. Serial No. 338,197; July 11. Class 48.
Leighton, Joseph B., New York, N. Y. Game. Serial No. 337,921; July 11. Class 22.
Libby, McNeill & Libby, Chicago, Ill. Canned vegetables. Serial No. 338,093; July 11. Class 46.
Machen & Co., Limited, Liverpool, England. Malt beverages. Serial No. 338,156; July 11. Class 48.
Manufacturers Supply Company, Cleveland, Ohio. Paper. Serial No. 337,961; July 11. Class 37.
Marine Optical Manufacturing Company, Boston, Mass. Eyeglasses, goggles, etc. Serial No. 333,558; July 11. Class 26.
McLaren, D. & G., Leith, Scotland. Whisky. Serial No. 338,159; July 11. Class 49.
McPherson, John E., & Sons, Newcastle-on-Tyne, England. Whisky. Serial No. 332,957; July 11. Class 49.
Metalweld, Inc., Philadelphia, Pa. Safes. Serial No. 337,615; July 11. Class 25.
Middlesex Wholesale Grocery Co., New Brunswick, N. J. Malt syrup. Serial No. 328,030; July 11. Class 46.
Milwaukee Knitting Mills, Inc., Milwaukee, Wis. Hosiery. Serial No. 338,419; July 11. Class 39.
Mojeste Laboratories, New York, N. Y. Antiseptic powder for douche, etc. Serial No. 337,859; July 11. Class 6.
Monopole Vineyards Corporation, Rheims and New York, N. Y. Wines. Serial Nos. 338,330–1; July 11. Class 47.
Morris Drug Company, doing business as Silver Lustra Co., York, Pa. Polishes for glass, etc. Serial No. 302,589; July 11. Class 4.
Moth-Mist Laboratories. (See Barsky, Joseph.)
Muller, Carl G., doing business as Muller Bros., Oakland, Calif. Canned sauerkraut, tomato paste, etc. Serial No. 338,056; July 11. Class 46.
National Musical String Co., New Brunswick, N. J. Strings for fretted musical instruments. Serial No. 337,797; July 11. Class 36.
Neatease Company, The, New Bedford, Mass. Underwear. Serial No. 336,400; July 11. Class 39.
Nelson, Hans P., New York, N. Y. Polo mallets and crooks. Serial No. 338,427; July 11. Class 22.
Newark Paraffine & Parchment Paper Co., Newark, N. J. Baked goods. Serial No. 327,065; July 11. Class 46.
Northern Paper Mills, Green Bay, Wis. Toilet paper. Serial No. 337,278; July 11. Class 37.
No. 49 Company, The. (See Jones, L. E.)
Ogden-Utah Knitting Company, Ogden, Utah. Pajamas. Serial No. 337,927; July 11. Class 39.
Oyster-X Company. (See Steuerman, David.)
Parfumerie St. Denis, New York, N. Y. Astringents, bleach creams, etc. Serial No. 337,270; July 11. Class 6.
Petz, Elizabeth, Adams, Mass. Insecticide. Serial No. 337,706; July 11. Class 6.
Physicians and Hospitals Supply Company, Inc., doing business as Ulmer Pharmacal Company, Minneapolis, Minn. Pharmaceutical preparation. Serial No. 337,366; July 11. Class 6.
Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. Serial No. 338,239; July 11. Class 46.
Pilzner Importing Co. (See Pilzner Products Co., assignor.)
Pilzner Products Co., Inc., assignor to Pilzner Importing Co., New York, N. Y. Malt beverages. Serial No. 337,354; July 11. Class 46.
Pittsburgh Permatite Packing Company, Pittsburgh, Pa. Cotton packing. Serial No. 336,573; July 11. Class 35.
Producers, Ltd. (See Churchill, Ralph H.)
Protex Products Co., Inc., New York, N. Y. Fiberboard insect repellant boxes and cabinets. Serial No. 338,198; July 11. Class 2.
Quik Manufacturing Company. (See Earnshaw, Arthur R.)
Quintess, Inc., New York, N. Y. Cosmetics. Serial No. 337,931; July 11. Class 6.
Quix Products Co. (See Royer, Ira W.)
Realshine Company, Inc., The, Galveston, Tex. Shoe polish. Serial No. 338,271; July 11. Class 4.
Regal Shoe Company, Whitman, Mass. Gloves. Serial No. 331,515; July 11. Class 39.
Remington Rand Inc., Buffalo, N. Y. Photographic chemicals, developing compositions, etc. Serial No. 337,757; July 11. Class 6.
Review of Reviews Corporation, New York, N. Y. Magazine. Serial No. 337,357; July 11. Class 38.
Reyburn & Gemza, Bridgeport, Conn. Corn solvents. Serial No. 337,169; July 11. Class 6.
Rich, Klinger Aktiengesellschaft, Gumpoldskirchen, Austria. High pressure packings. Serial No. 333,893; July 11. Class 35.
Ritter Dental Manufacturing Company, Inc., Rochester, N. Y. Dental and surgical operating lights. Serial No. 337,575; July 11. Class 44.
Robinson, Leslie V., New York, N. Y. Radio program racks. Serial No. 337,397; July 11. Class 50.
Romanoff Caviar Company, doing business as Hansen Packing Co., New York, N. Y. Toast. Serial No. 337,358; July 11. Class 46.
Ronzoni Macaroni Co., Inc., Long Island City, N. Y. Alimentary paste products. Serial No. 335,971; July 11. Class 46.
Ross, Harriette S., New York, N. Y. Brassières, corsets, etc. Serial No. 337,313; July 11. Class 39.
Royer, Ira W., doing business as Quix Products Co., Canton, Ohio. Water softener. Serial No. 334,932; July 11. Class 6.
Rubel Baking Company, The, Cincinnati, Ohio. Bread. Serial No. 337,398; July 11. Class 46.
Rurup, Ernest G., doing business as Scientific Laboratories of America, San Francisco, Calif. Reducing capsule for reducing weight. Serial No. 337,759; July 11. Class 6.
Ryder, Melvin, Washington, D. C. Weekly newspaper. Serial Nos. 338,387–8; July 11. Class 38.
Schaeffer, J., Inc., New York, N. Y. Pads for permanent waving of hair. Serial No. 337,682; July 11. Class 44.
Schilling, A., & Company, San Francisco, Calif. Canned coffee. Serial No. 338,058; July 11. Class 46.
Scientific Laboratories of America. (See Rurup, Ernest G.)

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Sears, Roebuck and Co., Chicago, Ill. Vacuum cleaners. Serial No. 337,315; July 11. Class 21.
Self-Vulcanizing Rubber Co., Chicago, Ill. Rubber and latex. Serial Nos. 337,805–6; July 11. Class 1.
Shattuck, Frank G., Co., New York, N. Y. Layer cake. Serial No. 329,481; July 11. Class 46.
Shell Oil Company, San Francisco, Calif. Valve lubricator. Serial No. 336,692; July 11. Class 23.
Sherwood Distilling and Distributing Company, The, Baltimore, Md. Whiskey. Serial No. 338,203; July 11. Class 49.
Silver Lustra Co. (See Morris Drug Company.)
Singin' Sam. (See Frankel, Harry.)
Small, Fred W., New York, N. Y. Undergarments. Serial No. 337,001; July 11. Class 39.
Snellenburg, N., & Co., Philadelphia, Pa. Coats, skirts, etc. Serial No. 338,341; July 11. Class 39.
Sociedad Anonima Makinnon & Coelho Limitada, Compania Yerbatera, Buenos Aires, Argentina. Paraguayan tea (yerba mate). Serial No. 338,116; July 11. Class 46.
Socony-Vacuum Specialties, Incorporated, New York, N. Y. Dressing for oiling and cleaning floors, etc. Serial No. 338,467; July 11. Class 16.
Southwestern Broom Mfg. Co., The, Evansville, Ind. Brooms. Serial No. 337,446; July 11. Class 29.
Standard Brands Incorporated, New York, N. Y. Coffee. Serial No. 327,171; July 11. Class 46.
Standard Brands Incorporated, New York, N. Y. Egg mixture. Serial No. 337,974; July 11. Class 46.
Standard Shoe Lace Company, Milwaukee, Wis. Shoe laces. Serial No. 337,363; July 11. Class 40.
Starrett, L. S., Company, The, Athol, Mass. Measuring tools. Serial No. 337,894; July 11. Class 26.
Stein, S., & Co., New York, N. Y. Woolen goods in the piece. Serial No. 312,071; July 11. Class 42.
Sterne-Jay Corporation, The, New York, N. Y. Automobile seat covers. Serial No. 337,895; July 11. Class 19.
Stetson Glove Company, St. Louis, Mo. Gloves. Serial No. 337,896; July 11. Class 39.
Steuerman, David, doing business as Oyster-X Company, New York, N. Y. Health tonic. Serial No. 337,276; July 11. Class 6.
Stolberg, Gregory B., doing business as The Stolberg Laboratories, New York, N. Y. Laxatives. Serial No. 338,118; July 11. Class 6.
Sturm & Scheinberg, Inc., New York, N. Y. Girdles, corsets, etc. Serial No. 337,323; July 11. Class 39.
Sun Oil Company, Philadelphia, Pa. Gasoline. Serial No. 319,422; July 11. Class 15.
Sun Oil Company, Philadelphia, Pa. Oil to be sprayed for laying dust. Serial No. 320,324; July 11. Class 15.
Superior Felt & Bedding Co., Chicago, Ill. Mattresses Serial No. 328,098; July 11. Class 32.
Surpass Leather Co., New York, N. Y. Leather. Serial No. 337,238; July 11. Class 1.
Swiss Silk Bolting Cloth Mfg. Co. Ltd., Thal, Switzerland. Silk bolting cloth. Serial No. 336,237; July 11. Class 42.
Taylor Instrument Companies, Rochester, N. Y. Thermometers. Serial No. 337,898; July 11. Class 26.
Texas Company, The, New York, N. Y. Dry cleaning fluid. Serial No. 333,274; July 11. Class 4.
Thresher Varnish Company, The, Dayton, Ohio. Enamel. Serial No. 338,381; July 11. Class 16.
Tildesley Coal Company, The, Cincinnati, Ohio. Coal. Serial No. 322,865; July 11. Class 1.
Toch Brothers, Inc., New York, N. Y. Paints, enamels, etc. Serial Nos. 337,448–9; July 11. Class 16.
Tripoli Barbers Supply Company, Inc., Philadelphia, Pa. Hair tonics. Serial No. 337,053; July 11. Class 6.
True Blue Distributors, Houston, Tex. Razor blades. Serial No. 335,437; July 11. Class 28.
Trussbilt, Inc., Minneapolis, Minn. Sheet metal units for doors, etc. Serial No. 332,131; July 11. Class 12.
U. S. Industrial Chemical Co. Incorporated, Baltimore, Md., and New York, N. Y. Publication. Serial No. 338,382; July 11. Class 38.
U. S. Phosphoric Products Corporation, New York, N. Y. Insecticides. Serial No. 337,900; July 11. Class 6.
Ulmer Pharmacal Company. (See Physicians and Hospitals Supply Company.)
Vantine, A. A., Products Corp., New York, N. Y. Toilet preparations and cosmetics. Serial No. 335,429; July 11. Class 6.
Vi-Foods Company, Boston, Mass. Vegetable compound for tonic. Serial No. 337,450; July 11. Class 6.
Vita-Dyne Permanent Wave Supply Company, The. (See Kay, George.)
Vitality Mills, Inc., Chicago, Ill. Medicine for poultry diseases. Serial No. 337,054; July 11. Class 6.
Wagner, Josef., Bierbrauerei Zum Augustiner, Munich, Germany. Malt beverage. Serial Nos. 335,406–7; July 11. Class 48.
Wait, Justin F., New York, N. Y. Laundry bleaching systems. Serial No. 337,815; July 11. Class 24.
Washal Co., Inc., The, Brooklyn, N. Y. Granulated soaps. Serial No. 337,318; July 11. Class 4.
Webb, Hugh S., doing business as Webb Coal Co., Port Huron, Mich. Coal. Serial No. 338,265; July 11. Class 1.
Weitzman, Lou J., doing business as Weitzman & Levy, New York, N. Y. Medicated chewing gum. Serial No. 337,493; July 11. Class 6.
Werk, M., Company, The, St. Bernard, Ohio. Toilet soap. Serial No. 320,508; July 11. Class 4.
White, Wilbur, Chemical Company, Inc., The, Owego, N. Y. Liquid soap for cleaning tile, etc. Serial No. 336,700; July 11. Class 4.
Will & Baumer Candle Co., Inc., Syracuse, N. Y. Altar and church lamps. Serial No. 323,153; July 11. Class 34.
Williams & Humbert, London, England. Sherry wines. Serial No. 338,269; July 11. Class 47.
Williams Radiator Co., Los Angeles, Calif. Gas heater. Serial No. 332,360; July 11. Class 34.
Wilson Welder & Metals Co. Inc., North Bergen, N. J. Electric arc welding machines. Serial No. 335,439; July 11. Class 21.
York Pharmacal Company. (See Kin-Septic Company.)
Young Novelty Co., Boston, Mass. Safety razor blades. Serial No. 337,818; July 11. Class 23.

LIST OF REGISTRANTS OF TRADE-MARKS

Aaron Coffee Company. (See Weiser, Aaron.)
Ace Products Company, Inc., New York, N. Y. Kitchen graters. 304,571; July 11; Serial No. 334,377; published Apr. 25, 1933. Class 23.
Actiengesellschaft Hackerbräu, Munich, Germany. Malt beverages. 304,673; July 11. Class 48.
Alberty, Guy W., doing business as Alberty Drug Co., Batavia, N. Y. Milk magnesia. 304,563; July 11; Serial No. 334,038; published Apr. 11, 1933. Class 6.
Alexander Doll Co. (See Behrman, Bertha.)
American Agricultural Chemical Company, The. (See Rygert, J. E., Company, assignor.)
American Agricultural Chemical Company, assignor to The American Agricultural Chemical Company, New York, N. Y. Fertilizers. 92,160; renewed June 24, 1933.
American Anode Inc., Akron, Ohio. Surgean's rubber gloves. 304,533–4; July 11; Serial Nos. 335,382–3; published Apr. 25, 1933. Class 44.
American Anode Inc., Akron, Ohio. Surgeon's rubber gloves. 304,536; July 11; Serial No. 335,384; published Apr. 25, 1933. Class 44.
American Anode Inc., Akron, Ohio. Rubber toy balloons. 304,651–2; July 11; Serial Nos. 335,387–8; published Apr. 25, 1933. Class 22.
American Anode Inc., Akron, Ohio. Rubber toy balloons. 304,654; July 11; Serial No. 335,389; published Apr. 25, 1933. Class 22.
American Brass Company, Waterbury, Conn. Copper wire. 94,148; renewed Nov. 11, 1933.
American Glanzstoff Corporation, New York, N. Y. Thread and yarn. 304,600–1; July 11; Serial Nos. 330,192–3; published Apr. 18, 1933. Class 43.
Amtorg Trading Corporation, New York, N. Y. Canned crab meat. 304,603; July 11; Serial No. 308,716; published Apr. 25, 1933. Class 46.
Antognoli, Joseph, & Co., Chicago, Ill., assignor to Joseph Antognoli & Co., Chicago, Ill. Malt syrup and macaroni. 304,572; July 11; Serial No. 334,380; published Mar. 14, 1933. Class 46.
Antro Chemical Company. (See Bennett, Robert S.)
Arcadia Food Co., New York, N. Y. Gelatine dessert. 304,511; July 11; Serial No. 328,472; published Aug. 30, 1932. Class 46.
Ardath Tobacco Company. (See Levy, Albert, assignor.)
Bachrach-Feld Company, Inc., The, doing business as Nuwort Concentrated Malt Co., Cincinnati, Ohio. Concentrated, liquid malt syrup. 304,610; July 11; Serial No. 334,788; published Apr. 25, 1933. Class 46.
Barst, Herman, doing business as Selzit Products Co., New York, N. Y. Preparation for indigestion. 304,498; July 11; Serial No. 335,082; published Apr. 25, 1933. Class 6.
Bayley, Thomas W., doing business as Velvet Mitten Company, Los Angeles, Calif. Abrasive articles used as a depilatory, etc. 304,679; July 11, 1933. Class 44.
Bayuk Cigars Incorporated, Philadelphia, Pa. Cigars. 304,486; July 11; Serial No. 335,762; published Apr. 25, 1933. Class 17.
Beech-Nut Packing Company, Canajoharie, N. Y. Chewing gum. 304,483; July 11; Serial No. 335,560; published Apr. 25, 1933. Class 46.

Bee Hat & Cap Co., St. Louis, Mo. Hats and caps. 304,558; July 11; Serial No. 334,243; published Apr. 18, 1933. Class 39.

Behrman, Bertha, doing business as Alexander Doll Co., New York, N. Y. Dolls. 304,488; July 11; Serial No. 335,763; published Apr. 25, 1933. Class 22.

Bennett, Robert S., doing business as Antro Chemical Company, Cleveland, Ohio. Preparation for sinus infections, catarrh, etc. 304,553; July 11; Serial No. 334,344; published Apr. 25, 1933. Class 6.

Berghoff Brewing Corporation, Fort Wayne, Ind. Malt beverage. 304,472; July 11; Serial No. 335,546; published Apr. 25, 1933. Class 48.

Best & Co., Inc., New York, N. Y. Hosiery, hats, underwear, etc. 304,508; July 11; Serial No. 335,158; published Apr. 18, 1933. Class 39.

Blackstone, Stallman, Inc., New York, N. Y., assignor to Benjamin Stallman, New York, N. Y. Woven textiles in the piece of cotton, wool, etc. 304,685; July 11, 1933. Class 42.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics. 304,441; July 11; Serial No. 334,907; published Apr. 25, 1933. Class 42.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics. 304,524; July 11; Serial No. 325,420; published May 10, 1932. Class 42.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 304,449; July 11; Serial No. 334,908; published Apr. 25, 1933. Class 42.

Böhme, H. Th., Aktiengesellschaft, Chemnitz, Germany. Chemical dye acids. 304,620; July 11; Serial No. 334,861; published Apr. 11, 1933. Class 6.

Böhme, H. Th. Aktiengesellschaft, Chemnitz, Germany. Chemical dye aids. 304,622–3; July 11; Serial Nos. 334,862–3; published Apr. 11, 1933. Class 6.

Böhme, H. Th. Aktiengesellschaft, Chemnitz, Germany. Chemical dye aids. 304,625; July 11; Serial No. 334,864; published Apr. 11, 1933. Class 6.

Boyle & Burger, New York, N. Y. Smoke-containing chewing gum. 304,640; July 11; Serial No. 331,947; published Apr. 18, 1933. Class 46.

Bradspeed Corporation, St. Louis, Mo. Machinery and parts thereof. 304,545; July 11; Serial No. 333,726; published Apr. 25, 1933. Class 23.

Bralle, Georg, Firm Hamburg and Altona, Germany. Perfumery. 304,657; July 11; Serial No. 318,897; published Apr. 25, 1933. Class 6.

Brauer Bros. Inc., St. Louis, Mo. Upper gauging attachment for making shoe lasts. 304,517; July 11; Serial No. 330,028; published Apr. 25, 1933. Class 26.

Brown Shoe Company, Inc., St. Louis, Mo. Shoes. 304,523; July 11; Serial No. 325,512; published July 5, 1932. Class 39.

Bullen, J. Warren, doing business as The Bullen Chemical Company, Folcroft, Pa. Insecticide and disinfectant. 304,514; July 11; Serial No. 329,300; published Sept. 20, 1932. Class 6.

Burnett, Joseph, Co., Boston, Mass. Vanilla food flavoring extract. 304,662; July 11; Serial No. 307,579; published Apr. 25, 1933. Class 46.

Burt-Gerrans, James T., Toronto, assignor to Francis T. Routery, Kingsbury, Ontario, Canada. Rear and front signal lights for vehicles. 304,669; July 11; Serial No. 323,978; published Apr. 18, 1933. Class 21.

Butterfield, Fred. & Co., Inc., New York, N. Y. Fabrics. 304,568; July 11; Serial No. 334,519; published Apr. 11, 1933. Class 42.

Buxbaum Company, The, Akron, Ohio. Floor coverings and mats. 304,561; July 11; Serial No. 334,084; published Apr. 25, 1933. Class 50.

C & H Sales Corporation, Boston, Mass. Pumps for oil burners. 304,566; July 11; Serial No. 334,035; published Apr. 25, 1933. Class 23.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. 304,537; July 11; Serial No. 333,219; published Apr. 25, 1933. Class 6.

California Packing Corporation, San Francisco, Calif. Canned and dried fruit, prunes, raisins, canned vegetables, etc. 304,659; July 11; Serial No. 307,259; published Dec. 6, 1932. Class 46.

Calwhey Co., The, San Francisco, Calif. Stabilized dry whey skimmed milk product. 304,581; July 11; Serial No. 335,346; published Apr. 25, 1933. Class 46.

Capitol Rendering Works, Inc., Denver, Colo. Fertilizer. 304,466; July 11; Serial No. 335,497; published Apr. 25, 1933. Class 10.

Carson Pirie Scott and Company, Chicago, Ill. Hats. 304,682; July 11. Class 39.

Celanese Corporation of America, New York, N. Y. Fabrics of cellulose derivatives. 304,595; July 11; Serial No. 335,187; published Apr. 25, 1933. Class 42.

Cellas', Inc. (See Petrocelli, Joseph, & Company, assignor.)

Chambers, William, & Son, Buffalo, N. Y. Liquid polish. 94,164; renewed Nov. 11, 1933.

Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Sheet-metal and wire. 304,538; July 11; Serial No. 333,146; published Apr. 25, 1933. Class 14.

Chemical Works formerly Sandoz, Basel, Switzerland, assignor to Sandoz Chemical Works, Inc., New York, N. Y. Remedy. 40,596; renewed June 16, 1933.

Chicago Curled Hair Company, Chicago, Ill. Carpet pads and carpet lining. 304,480; July 11; Serial No. 335,717; published Apr. 25, 1933. Class 50.

Clark, John C. (See Jones, Wylie B., assignor.)

Cleveland Cleaner and Paste Co., The, Cleveland, Ohio. Brush cleaner. 304,447; July 11; Serial No. 334,985; published Apr. 25, 1933. Class 16.

Cleveland Cleaner and Paste Co., The, Cleveland, Ohio. Compound for cleaning wall paper, frescos, etc. 304,450; July 11 Serial No. 334,983; published Apr. 25, 1933. Class 4.

Cleveland Cleaner and Paste Co., The, Cleveland, Ohio. Paint cleaning compound. 304,451; July 11; Serial No. 334,984; published Apr. 25, 1933. Class 4.

Cleveland Cleaner and Paste Co., The, Cleveland, Ohio. Wall size. 304,453; July 11; Serial No. 334,982; published Apr. 25, 1933. Class 16.

Colgate-Palmolive-Peet Company, Chicago, Ill. Soap. 304,487 July 11; Serial No. 335,768; published Apr. 25, 1933. Class 4.

Columbia Graphophone Company, Washington, D. C., assignor, by mesne assignments, to Columbia Phonograph Company, Inc., Bridgeport, Conn. Talking machines and records. 83,428; renewed Sept. 16, 1933.

Comfort Manufacturing Company, Chicago, Ill. Astringents, astringent cerates, bleach and beauty creams, etc. 304,491; July 11; Serial No. 335,018; published Apr. 25, 1933. Class 6.

Commercial Laboratories, Inc., Newark, N. Y. Plant fertilizer. 304,479; July 11, Serial No. 335,665; published Apr. 25, 1933. Class 10.

Conover & Mast, New York, N. Y. Periodical publications. 304,650; July 11; Serial No. 332,086; published Apr. 25, 1933. Class 38.

Copper & Brass Research Association, New York, N. Y Copper and copper alloys. 304,541; July 11; Serial No. 333,506; published Apr. 25, 1933. Class 14.

Crompton Company, West Warwick, R. I. Treated tarnish proof, napped, and pile fabrics for use in packing silver. 304,591; July 11; Serial No. 335,273; published Apr. 25, 1933. Class 50.

Crosley Radio Corporation, The, Cincinnati, Ohio. Electrical refrigerators. 304,471; July 11; Serial No. 335,478; published Apr. 25, 1933. Class 31.

Dao Corporation. (See Owen, Orlando K.)

Davega-City Radio Stores, Inc., New York, N. Y. Roller skates, tennis rackets, and handball gloves. 304,648; July 11; Serial No. 332,252; published Feb. 21, 1933. Class 22.

Debenedetti, J. L., San Francisco, Calif. Fresh vegetables. 304,530; July 11; Serial No. 327,134; published Aug. 16, 1932. Class 46.

De Bevoise, Chas. R., Co., Newark, N. J. Narrow brassières. 304,560 July 11; Serial No. 334,143; published Apr. 11, 1933. Class 39.

Dick, A. B., Company, assignor to A. B. Dick Company, Chicago, Ill. Fluid for stenciling. 93,974; renewed Oct. 28, 1933.

Dick, A. B., Company, assignor to A. B. Dick Company, Chicago, Ill. Paper. 92,879; renewed Aug. 5, 1933.

Dorgan-McPhillips Packing Corporation, Mobile, Ala. Canned shrimps. 304,469; July 11; Serial No. 335,484; published Apr. 25, 1933. Class 46.

Dorman, Long & Co., Limited, Middlesbrough, England. Joist steel, channel steel, angle steel, etc. 304,554; July 11; Serial No. 334,350; published Apr. 25, 1933. Class 14.

Dort, Arthur A., Brooklyn, N. Y. Perfumes, face creams, talcum powder, etc. 304,442; July 11; Serial No. 324,092; published Apr. 25, 1933. Class 6.

Draper-Maynard Company, The, Plymouth, N. H. Balls, bats rackets, etc. 304,646; July 11; Serial No. 332,577; published Apr. 25, 1933. Class 22.

Dudley Lock Corporation, Chicago, Ill. Locks, keys, and blanks. 304,680; July 11. Class 25.

Dugan Brothers of New Jersey, Inc., Newark, N. J. Bread, cakes, and pies. 304,548; July 11; Serial No. 333,729; published Apr. 25, 1933. Class 46.

Dunne, F. L., Co., Boston, Mass., and New York, N. Y. Articles of clothing. 304,667; July 11; Serial No. 321,993; published Apr. 26, 1932. Class 39.

Durand & Huguenin A. G., Basel, Switzerland. Auxiliary products for mordanting, fixing, etc., in the dyeing and printing of textile fibers. 304,688; July 11. Class 6.

Easy Teether Medicine Co., Westminster, S. C. Preparations for the prevention and treatment of stomach and bowel ailments. 304,671; July 11. Class 6.

Edgeberg, Otto, doing business as Northwestern Brokerage Co., Eau Claire, Wis. Wheat flour. 304,518; July 11; Serial No. 329,966; published Apr. 25, 1933. Class 46.

Empire Twine & Yarn Co., Inc., New York, N. Y. Thread and yarn. 304,603; July 11; Serial No. 330,340; published Apr. 4, 1933. Class 43.

Endicott Johnson Corporation, Endicott, N. Y. Middle soles for shoes. 304,575; July 11; Serial No. 334,674; published Apr. 11, 1933. Class 39.

Ettor, Joseph J., Modesto, Calif. Fresh grapes. 304,512; July 11; Serial No. 331,427; published Nov. 29, 1932. Class 46.

Ezza Manufacturing Co. (See Smith, Ada F.)

Felton Chemical Company, Inc., Brooklyn, N. Y. Candies, ice cream, fruit syrups, etc. 304,605; July 11; Serial No. 330,701; published Apr. 25, 1933. Class 46.

Finn, J. A., & Co., New York, N. Y. Cotton piece goods. 304,691; July 11. Class 42.

First Aid Medicine Co. Inc. (See Norton, John J.)

Forsheim & Konigsberg, New York, N. Y. Puzzles. 91,765; renewed May 27, 1933.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 304,497; July 11; Serial No. 335,087; published Apr. 18, 1933. Class 42.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 304,631; July 11; Serial No. 334,529; published Apr. 11, 1933. Class 42.

Furuya & Company, Seattle, Wash. Bean sauce and fried noodles. 304,544; July 11; Serial No. 333,584; published Apr. 18, 1933. Class 46.

Garfinkel & Ritter, New York, N. Y. Undergarments—Slips. 304,618; July 11; Serial No. 334,833; published Apr. 4, 1933. Class 39.

Garfinkel & Ritter, doing business as Jaunty Silk Company, New York, N. Y. Preparation for removing spots, stains, etc. 304,629; July 11; Serial No. 334,558; published Apr. 25, 1933. Class 4.

General Electric X-Ray Corporation, Chicago, Ill. Photographic developing solutions and for other chemical baths. 304,539; July 11; Serial No. 333,287; published Apr. 25, 1933. Class 26.

General Mills, Inc. (See Oklahoma City Mill & Elevator Co., assignor.)

Gittleman, Benjamin, doing business as Lincoln Lace & Braid Mfg. Co., Providence, R. I. Shoe laces. 304,645; July 11; Serial No. 332,812; published Apr. 18, 1933. Class 40.

Globe Brewing Co., Inc., Utica, N. Y. Malt beverages. 304,490; July 11; Serial No. 335,864; published Apr. 25, 1933. Class 48.

Grau, Salvador A., to Hijos Del Doctor Andreu, Barcelona, Spain, successor. Medicated pastils and lozenges. 91,200; renewed Apr. 22, 1933.

Grau, Salvador A., to Hijos Del Doctor Andreu, Barcelona, Spain, successor. Anti-asthmatic cigarettes containing no tobacco. 91,201; renewed Apr. 22, 1933.

Grau, Salvador A., to Hijos Del Doctor Andreu, Barcelona, Spain successor. Anti-asthmatic fumigating-paper. 91,202; renewed Apr. 22, 1933.

Grayson, Dolly, Company, Inc., Birmingham, Ala. Hair tonics, skin lotions, etc. 304,677; July 11. Class 6.

Green, Andrew D., Evansville, Ind. Salve. 304,448; July 11; Serial No. 334,995; published Apr. 25, 1933. Class 6.

Grover, J. J., Shoe Company, Stoneham, Mass. Shoes. 304,666; July 11; Serial No. 320,250; published Apr. 25, 1933. Class 39.

Hamblet Studios, Inc., Akron, Ohio. Picture puzzles. 304,467; July 11; Serial No. 335,505; published Apr. 25, 1933. Class 22.

Harris, Esther L., Atlanta, Ga. Toy drawing books. 304,459; July 11; Serial No. 335,465; published Apr. 25, 1933. Class 22.

Hawaiian Pineapple Company, Ltd., Honolulu, Hawaii, and San Francisco, Calif. Canned pineapple juice. 304,455; July 11; Serial No. 334,964; published Apr. 25, 1933. Class 46.

Hickok Manufacturing Company, Inc., Rochester, N. Y. Suspenders including shirt hold down attachments. 304,513; July 11; Serial No. 329,334; published Apr. 11, 1933. Class 39.

Hickok Manufacturing Company, Inc., Rochester, N. Y. Suspenders including shirt hold down attachments. 304,516; July 11; Serial No. 329,349; published Apr. 11, 1933. Class 39.

Hijos de Francisco Serrano, Oviedo, Spain. Anisette. 304,628; July 11; Serial No. 334,562; published Apr. 25, 1933. Class 49.

Hijos de Francisco Serrano, Oviedo, Spain. Aniseed brandies and liquors. 304,630; July 11; Serial No. 334,561; published Apr. 25, 1933. Class 49.

Hijos Del Doctor Andreu. (See Grau, Salvador A.)

Hobart Electric Mfg. Co., The, assignor to The Hobart Manufacturing Company, Troy, Ohio. Electric coffee-mills, etc. 92,217; renewed June 24, 1933.

Holabird Company, The, Bryan, Ohio. Puzzles. 304,485; July 11; Serial No. 335,722; published Apr. 25, 1933. Class 22.

Hollingshead, R. M., Co., The, Camden, N. J. Carbon decomposer, anti-freeze compound, etc. 304,643; July 11; Serial No. 332,390; published Apr. 25, 1933. Class 6.

Hood Rubber Company, Boston, Mass., assignor to Hood Rubber Company, Inc., Wilmington, Del. Rubber boots, shoes, etc. 91,874; renewed Jan. 3, 1933.

Hopkins, J. L., & Co., New York, N. Y. Almond meal. 304,675; July 11, 1933. Class 6.

Hormel, Geo. A., & Co., assignor to Geo. A. Hormel & Co., Austin, Minn. Cured meats. 41,178; renewed Sept. 29, 1933.

Houbigant, Inc., New York, N. Y. Face powder. 304,482; July 11; Serial No. 335,640; published Apr. 25, 1933. Class 6.

Houle, Joseph S., Manchester, N. H. Hand lotions, face and skin lotions. 304,550; July 11; Serial No. 333,831; published Apr. 11, 1933. Class 6.

Huber Baking Co., Wilmington, Del. Bread. 304,632; July 11; Serial No. 334,532; published Apr. 18, 1933. Class 46.

Hudnut, Richard, New York, N. Y. Shaving cream. 304,481; July 11; Serial No. 335,595; published Apr. 25, 1933. Class 4.

Huyck, F. C., & Sons, Rensselaer and Albany, N. Y. Bed blankets. 304,525; July 11; Serial No. 326,511; published June 7, 1932. Class 42.

Ingersoll-Rand Company, New York, N. Y. Cutting head for drill steels. 304,500; July 11; Serial No. 335,093; published Apr. 25, 1933. Class 23.

International Distributing Co., Janesville, Wis. Porch shades and window shades. 304,583; July 11; Serial No. 335,320; published Apr. 25, 1933. Class 32.

International Shoe Co., St. Louis, Mo. Boots and shoes. 304,555; July 11; Serial No. 334,284; published Apr. 11, 1933. Class 39.

Jaburg Brothers, Inc., New York, N. Y. Rubber, vegetables, and synthetic gums and hops. 304,604; July 11; Serial No. 330,851; published Jan. 3, 1933. Class 1.

Jaburg Brothers, Inc., New York, N. Y. Alimentary paste, butter, candies, etc. 304,660; July 11; Serial No. 312,651; published Oct. 25, 1932. Class 46.

Jaunty Silk Company. (See Garfinkel & Ritter.)

Johnson, S. C., & Son, assignor to S. C. Johnson & Son, Inc., Racine, Wis. Polishing wax. 304,665; July 11; Serial No. 320,592; published Apr. 25, 1933. Class 16.

Johnson's Fur & Sales Co., Chippewa Falls, Wis. Fox feed. 304,444; July 11; Serial No. 334,919; published Apr. 25, 1933. Class 46.

Jones, Wylie B., assignor to John C. Clark, Binghamton, N. Y. Medicinal preparation. 92,227; renewed June 24, 1933.

Julian & Kokenge Company, The, doing business as The Lape & Adler Company, Columbus and Cincinnati, Ohio. Women's shoes. 304,670; July 11; Serial No. 323,946; published Apr. 25, 1933. Class 39.

Kalker Trieurfabrik und Fabrik Gelochter Bleche Mayer & Cie. Aktiengesellschaft, Cologne, Germany. Rotary grain separators. 304,578; July 11; Serial No. 334,608; published Apr. 25, 1933. Class 23.

Kansas Milling Company, The, Wichita, Kans. Wheat flour. 304,598; July 11; Serial No. 330,093; published Nov. 1, 1932. Class 46.

Kaveny Brothers, Inc., Montclair, N. J. Oil burners. 304,668; July 11; Serial No. 321,542; published Sept. 13, 1932. Class 34.

Keuffel and Esser Company, Hoboken, N. J. Drawing paper. 40,516; renewed June 9, 1933.

Keuffel and Esser Company, Hoboken, N. J. Blue print paper. 40,581; renewed June 16, 1933.

Kleinert, I. B., Rubber Company, New York, N. Y. Undergarments. 304,588; July 11; Serial No. 335,277; published Apr. 25, 1933. Class 39.

Knapp-Monarch Company, Belleville, Ill. Electric fans. 304,529; July 11; Serial No. 325,331; published June 7, 1932. Class 21.

Kops Brothers, Inc., New York, N. Y. Corset girdles. 304,562; July 11; Serial No. 334,107; published Apr. 18, 1933. Class 39.

La Dento Laboratories. (See Lockwood, Leo W.)

Lakeshire Cheese Company, Plymouth, Wis. Cheese. 304,579; July 11; Serial No. 335,360; published Apr. 25, 1933. Class 46.

Lake Wales Citrus Growers Association, Lake Wales, Fla. Citrus fruits. 304,452; July 11; Serial No. 334,965; published Apr. 25, 1933. Class 46.

Lane Drug Stores, Incorporated, Atlanta, Ga. Writing and cleansing tissue paper. 304,678; July 11, 1933. Class 37.

Lape & Adler Company, The. (See Julian & Kokenge Company, The.)

La Valle, Inc., New York, N. Y. Ladies' shoes. 304,642; July 11; Serial No. 334,754; published Apr. 11, 1933. Class 39.

Lecroy, John, & Son, Camden, N. J. Insecticides. 304,576; June 11; Serial No. 334,683; published Apr. 11, 1933. Class 6.

Lehrfeld, Manuel S., Philadelphia, Pa. Medicinal preparation. 304,624; July 11; Serial No. 334,879; published Apr. 11, 1933. Class 6.

Les Laboratoires Dausse, Societe Anonyme, Paris, France. Perfumes, toilet waters, rouges, etc. 304,551; July 11; Serial No. 334,365; published Apr. 25, 1933. Class 6.

Levy, Albert, assignor, by mesne assignments, to Ardath Tobacco Company, Limited, London, England. Tobacco and cigarettes. 41,221; renewed Oct. 6, 1933.

Levy, Albert, assignor, by mesne assignments, to Ardath Tobacco Company, Limited, London, England. Tobacco and cigarettes. 41,324; renewed Oct. 20, 1933.

Lincoln Lace & Braid Mfg. Co. (See Gittleman, Benjamin.)

Lockwood, Leo W., doing business as La Dento Laboratories, Minneapolis, Minn. Sterilizing, cleansing powder for artificial teeth. 304,580; July 11; Serial No. 335,280; published Apr. 25, 1933. Class 4.

Luxite Silk Products Co., Milwaukee, Wis. Underwear and foundation garments. 304,445; July 11; Serial No. 334,924; published Apr. 25, 1933. Class 39.

Mable, Beatrice, Inc., St. Louis, Mo. Powder bases, massage oils, etc. 304,676; July 11, 1933. Class 6.

Maney Milling Company, Omaha, Nebr. Wheat flour. 92,809; renewed July 29, 1933.

Marchant, Charles, Glasgow, Scotland. Whiskey. 304,473; July 11; Serial No. 335,551; published Apr. 25, 1933. Class 49.

Marion Shoe Company, Marion, Ohio. Shoes. 304,540; July 11; Serial No. 333,263; published Apr. 25, 1933. Class 39.

McCoy's Laboratories, Inc., New York, N. Y. Cod liver oil and cod liver oil compound. 304,465; July 11; Serial No. 335,512; published Apr. 25, 1933. Class 6.
Mead Johnson & Company, Evansville, Ind. Cereal, egg, and milk free diet for allergic children. 304,580; July 11; Serial No. 335,328; published Apr. 25, 1933. Class 46.
Mellenthin, Michael A., doing business as Mellenthin Laboratories, Los Angeles, assignor to Gurli Mellenthin, Los Angeles, Calif. Medical compounds for treatment of stomach ulcers, etc. 304,681; July 11, 1933. Class 6.
Meltron Tube Co. (See Triad Manufacturing Co., Inc.)
Meyer, Arnold O., Hamburg, Germany. Wire nails, nuts, bolts, etc. 91,500; renewed May 6, 1933.
Michel, C. and J., Brewing Company, La Crosse, Wis. Malt beverage. 304,559; July 11; Serial No. 334,110; published Apr. 25, 1933. Class 48.
Millers Falls Paper Company, Millers Falls, Mass. Bond paper. 304,658; July 11; Serial No. 317,645; published Nov. 8, 1932. Class 37.
Monkhouse and Glasscock Limited, Bermondsey, London, England. Food jellies, etc. 93,887; renewed Oct. 21, 1933.
Moorman, Robert P., doing business as R. P. Moorman Co., Indianapolis, Ind. Processed nuts. 304,592; July 11; Serial No. 335,205; published Apr. 25, 1933. Class 46.
Murray, Wendell P., Gloversville, N. Y. Gloves and/or mittens. 304,489; July 11; Serial No. 336,330; published May 9, 1933. Class 39.
National Biscuit Company, New York, N. Y. Biscuits. 304,557; July 11; Serial No. 334,154; published Apr. 25, 1933. Class 46.
National Chemical & Manufacturing Company, Chicago, Ill. Paste paints. 304,519; July 11; Serial No. 327,255; published Nov. 22, 1932. Class 16.
National Washboard Company, Chicago, Ill. Ironing tables. 304,454; July 11; Serial No. 335,470; published Apr. 25, 1933. Class 24.
National Washboard Company, Chicago, Ill. Ironing tables. 304,456–7; July 11; Serial Nos. 335,468–9; published Apr. 25, 1933. Class 24.
National Washboard Company, Chicago, Ill. Ironing tables. 304,458; July 11; Serial No. 335,475; published Apr. 25, 1933. Class 24.
National Washboard Company, Chicago, Ill. Ironing tables. 304,460–3; July 11; Serial Nos. 335,471–4; published Apr. 25, 1933. Class 24.
Naumkeag Steam Cotton Company, Salem, Mass. Sheets. 304,594; July 11; Serial No. 335,365; published Apr. 25, 1933. Class 42.
Naumkeag Steam Cotton Company, Salem, Mass. Sheets. 304,599; July 11; Serial No. 335,366; published Apr. 25, 1933. Class 42.
Northwestern Brokerage Co. (See Edgeberg, Otto.)
Norton, John J., doing business as First Aid Medicine Co. Inc., Laurel, Md. Medicinal oil. 304,573; July 11; Serial No. 334,716; published Apr. 11, 1933. Class 6.
Nox-Kwik Company, Baltimore, Md. Liniment. 304,567; July 11; Serial No. 334,510; published Apr. 25, 1933. Class 6.
Nuwort Concentrated Malt Co. (See Bachrach-Feld Company, Inc., The.)
Oklahoma City Mill & Elevator Co., Oklahoma, Okla., assignor to General Mills, Inc., Minneapolis, Minn. Flour. 40,738; renewed July 7, 1933.
Onondaga Silk Company, Inc., Syracuse and New York, N. Y. Silk fabrics. 304,593; July 11; Serial No. 335,208; published Apr. 25, 1933. Class 42.
Onondaga Silk Company, Inc., Syracuse and New York, N. Y. Silk fabrics. 304,590; July 11; Serial No. 335,209; published Apr. 25, 1933. Class 42.
Orange-Crush Company, Chicago, Ill. Maltless beverages and syrups, compounds and concentrates for making the same. 304,477; July 11; Serial No. 335,519; published Apr. 25, 1933. Class 45.
Orville Simpson Company, The, Cincinnati, Ohio. Milling machines. 93,111; renewed Aug. 19, 1933.
Owen, Orlando K., doing business as Dao Corporation, Terre Haute, Ind. Insecticide. 304,522; July 11; Serial No. 327,600; published Apr. 25, 1933. Class 6.
Palm Beach Loxahatchee Company, West Palm Beach, Fla. Fresh tomatoes and canned tomatoes. 304,503; July 11; Serial No. 335,129; published Apr. 25, 1933. Class 46.
Parapluie Revel. (See Revel, F., Pere & Fils.)
Parfumerie Rigaud, Inc., New York, N. Y. Perfumes, toilet waters, bath salts, etc. 304,565; July 11; Serial No. 334,023; published Apr. 25, 1933. Class 6.
Parfumerie St. Denis, New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. 304,542; July 11; Serial No. 333,468; published Apr. 25, 1933. Class 6.
Pepsodent Co., The, Chicago, Ill. Facial cream. 304,570; July 11. Serial No. 334,468; published Apr. 11, 1933. Class 6.
Perfumer and Cosmetic Guild Corporation, The, West Haven, Conn. Cold cream, wrinkle remover, deodorants, etc. 304,556; July 11; Serial No. 334,289; published Apr. 11, 1933. Class 6.
Petrocelli, Joseph, & Company, assignor, by mesne assignments, to Cellas' Inc., New York, N. Y. Macaroni. 94,320; renewed Nov. 25, 1933.
Petrolagar Laboratories, Inc., Chicago, Ill. Magazine. 304,478; July 11; Serial No. 335,521; published Apr. 25, 1933. Class 38.
Pharma-Craft Corporation, The, Louisville, Ky. Skin salve preparations and creams, etc. 304,674; July 11. Class 6.
Pitman, Sir Isaac, & Sons, Limited, Bath, England. Writing paper. 41,318; renewed Oct. 20, 1933.
Plymouth Cordage Company, Plymouth, Mass. Rope and twine. 92,577; renewed July 15, 1933.
Posner, Abraham, assignor to Dr. A. Posner Shoes, Inc., New York, N. Y. Shoes. 92,465; renewed July 8, 1933.
Prigg, H. Paul, Miami, Fla. Motor boats. 304,672; July 11. Class 19.
Progressive Knitted Rayon Fabric Mills, Inc., Brooklyn, N. Y. Knitted rayon and silk goods. 304,493; July 11; Serial No. 335,034; published Apr. 18, 1933. Class 42.
Pure Food Distributors, Inc., Hillside, N. J. Mayonnaise. 304,507; July 11; Serial No. 335,171; published Apr. 18, 1933. Class 46.
Rankin & Co., Inc., San Francisco, Calif. Fishing tackle. 304,692; July 11. Class 22.
Reed, E. P., & Company, Rochester, N. Y. Shoes 304,549; July 11; Serial No. 333,894; published Apr. 11, 1933. Class 39.
Research Products Corporation, New York, N. Y. Filling material for teeth. 304,510; July 11; Serial No. 335,173; published Apr. 25, 1933. Class 44.
Revel, F., Pere & Fils, to Parapluie Revel, Lyon, France, successor. Parasols and umbrellas. 93,117; renewed Aug. 19, 1933.
Richardson Corporation, Rochester, N. Y. Maltless beverages, and syrup used in making the same. 304,464; July 11; Serial No. 335,542; published Apr. 25, 1933. Class 45.
Robert Enterprises, Inc., New York, N. Y. Perfumes. 304,494; July 11; Serial No. 335,022; published Apr. 25, 1933. Class 6.
Rochester Co. Inc., The, Enid, Okla. Handkerchiefs. 304,506; July 11; Serial No. 335,132; published Apr. 18, 1933. Class 42.
Rockwell-Barnes Company, Chicago, Ill. Bond paper. 304,484; July 11; Serial No. 335,567; published Apr. 25, 1933. Class 37.
Rossie Velvet Company, Mystic, Conn. Pile fabrics. 304,633–41; July 11; Serial Nos. 334,764–72; published Apr. 11, 1933. Class 42.
Routery, Francis T. (See Burt-Gerrans, James T., assignor.)
Rowett, Legge & Co. Limited, London, England. Scotch whisky. 304,470; July 11; Serial No. 335,552; published Apr. 25, 1933. Class 49.
Sandfelder Bros. Co., Chicago, Ill. Girdles, brassiéres, etc. 304,627; July 11; Serial No. 334,887; published Apr. 18, 1933. Class 39.
Sandoz Chemical Works, Inc. (See Chemical Works formerly Sandoz, assignor.)
Schwartz Merchandise Corporation, New York, N. Y. Candy. 304,515; July 11; Serial No. 329,915; published Apr. 18, 1933. Class 46.
Schweiz. Serum- & Impfinstitut Bern, Bern, Switzerland. Apparatus for determining sugar in urine. 304,586; July 11; Serial No. 335 299; published Apr. 25, 1933. Class 44.
Sears, Roebuck and Co., Chicago, Ill. Rubber tires. 92,134; renewed June 17, 1933.
Sears, Roebuck and Co., Chicago, Ill. Electric horns for automobiles, etc. 92,270; renewed June 24, 1933.
Sears, Roebuck and Co., Chicago, Ill. Boots and shoes. 304,569; July 11; Serial No. 334,410; published Apr. 18, 1933. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Kitchen chairs and ottomans. 304,584; July 11; Serial No. 335,301; published Apr. 25, 1933. Class 32.
Sears, Roebuck and Co., Chicago, Ill. Gun and revolver cartridges. 304,587; July 11; Serial No. 335,300; published Apr. 25, 1933. Class 9.
Sears, Roebuck and Co., Chicago, Ill. Harmonicas and violin string adjusters. 304,621; July 11; Serial No. 334,848; published Apr. 18, 1933. Class 36.
Seeman Brothers, Inc., New York, N. Y. Food products. 304,686; July 11. Class 46.
Selzit Products Co. (See Barst, Herman.)
Shellmar Products Company, Chicago, Ill. Wrappers, bags, and cartons. 304,495; July 11; Serial No. 335,074; published Apr. 25, 1933. Class 2.
Sherwin-Williams Company, The, Cleveland, Ohio. Insecticides. 304,475; July 11; Serial No. 335,524; published Apr. 25, 1933. Class 6.
Sherwood Bros., Inc., Baltimore, Md. Oil burners. 304,468; July 11; Serial No. 335,481; published Apr. 25, 1933. Class 34.
Shoe-Milk Products Corporation, Orange, N. J. Shoe cleanser, polishes, and dressing. 304,492; July 11; Serial No. 335,006; published Apr. 25, 1933. Class 4.
Siemon Company, The, Bridgeport, Conn. Buttons. 304,552; July 11; Serial No. 334,372; published Apr. 18, 1933. Class 40.
Sinclair Knitting Mills Inc., New York, N. Y. Bathing suits and suspenders. 304,499; July 11; Serial No. 335,097; published Apr. 18, 1933. Class 39.

Sir, Harry, & Son, Inc., New York, N. Y. Shoes. 304,440; July 11; Serial No. 324,804; published Apr. 25, 1933. Class 39.
Smith, Ada F., doing business as Rasa Manufacturing Co., Albany, N. Y. Ointment and toilet cream. 304,547; July 11; Serial No. 333,783; published Apr. 25, 1933. Class 6.
Société Anonyme de la Fabrique d'Horlogerie le Coultre & Cie., Le Sentier, Switzerland. Watches, watch movements, and parts thereof. 304,606–7; July 11; Serial Nos. 331,013–14; published Apr. 25, 1933. Class 27.
Societe a Responsabilite Limitee: le Bakerfix, Nanterre, France. Perfumes, toilet waters, rouge, etc. 304,564; July 11; Serial No. 334,076; published Apr. 25, 1933. Class 6.
Stallman, Benjamin. (See Blackstone, Stallman, Inc.)
Standard Brands Incorporated, New York, N. Y. Tea. 304,608–9; July 11; Serial Nos. 334,774–5; published Apr. 25, 1933. Class 46.
Standard Brands Incorporated, New York, N. Y. Tea. 304,612–13; July 11; Serial Nos. 334,811–12; published Apr. 25, 1933. Class 46.
Standard-Coosa-Thatcher Company, Chattanooga, Tenn. Cotton thread. 304,614–17; July 11; Serial Nos. 334,813–16; published Apr. 4, 1933. Class 43.
Standard-Coosa-Thatcher Company, Chattanooga, Tenn. Cotton thread. 304,619; July 11; Serial No. 334,817; published Apr. 4, 1933. Class 43.
Standard Cosmetic Company, Oakland, Calif. Cosmetics. 304,684; July 11. Class 6.
Stant Manufacturing Company, Connorsville, Ind. Vehicle radiator and gasoline filler caps. 304,527; July 11; Serial No. 326,965; published Apr. 25, 1933. Class 19.
Stant Manufacturing Company, Connorsville, Ind. Vehicle radiator and gasoline filler caps. 304,528; July 11; Serial No. 326,960; published Apr. 25, 1933. Class 19.
Stearns & Foster Co., The, Cincinnati, Ohio. Quilting frames or hoops. 304,476; July 11; Serial No. 335,526; published Apr. 25, 1933. Class 50.
Sterling Products Company, Evansville, Ind. Malt beverage. 304,656; July 11; Serial No. 335,454; published Apr. 25, 1933. Class 48.
Street & Smith Publications, Inc., New York, N. Y. Periodical. 304,502; July 11; Serial No. 335,099; published Apr. 25, 1933. Class 38.
Sullivan, Mark J., doing business as Tyoga Products Company, Wellsboro, Pa. Lubricating oil, hair tonic, liniment, etc. 304,446; July 11; Serial No. 334,939; published Apr. 25, 1933. Class 6.
Sunical Packing Company, San Francisco, Calif. Canned fruits. 304,683; July 11. Class 46.
Taylor Instrument Companies, Rochester, N. Y. Recording barometers. 92,598; renewed July 15, 1933. Class 26.
Tennessee Eastman Corporation, Kingsport, Tenn. Antifreeze compound. 304,653; July 11; Serial No. 335,405; published Apr. 25, 1933. Class 6.
Thierry, Joseph, Denver, Colo. Cold cream, hand lotions, after shave lotion, etc. 304,647; July 11; Serial No. 332,240; published Apr. 25, 1933. Class 6.
Thornton, John, & Company, New York, N. Y. Needles. 304,597; July 11; Serial No. 331,808; published Apr. 18, 1933. Class 40.
Treadway, L. G., Service Corporation, New York, N. Y. Periodicals. 304,596; July 11; Serial No. 335,372; published Apr. 25, 1933. Class 38.
Triad Manufacturing Co., Inc., doing business as Meltron Tube Co., Pawtucket, R. I. Radio and television tubes. 304,585; July 11; Serial No. 335,303; published Apr. 18, 1933. Class 21.
Trico Products Corporation, Buffalo, N. Y. Signaling horns. 304,661; July 11; Serial No. 308,400; published Feb. 3, 1931. Class 23.
Trico Products Corporation, Buffalo, N. Y. Signaling horns. 304,664; July 11; Serial No. 308,401; published Feb. 3, 1931. Class 23.
Turchin, Ben, & Bro. Inc., New York, N. Y. Hats. 304,689; July 11. Class 39.
Tygert, J. E., Company, Philadelphia, Pa., assignor, by mesne assignments, to The American Agricultural Chemical Company, New York, N. Y. Fertilisers. 93,395; renewed Sept. 9, 1933.
Tyoga Products Company. (See Sullivan, Mark J.)
Ullman Manufacturing Company, The, Brooklyn, N. Y. Toy crayons. 304,687; July 11. Class 37.
United Drug Company, Boston, Mass. Rubber gloves. 304,543; July 11; Serial No. 333,641; published Apr. 11, 1933. Class 39.
United Shoe Machinery Corporation. (See Whitcher, Frank W., assignor.)
Vanity Fair Silk Mills, Reading, Pa. Underwear and hosiery. 304,520; July 11; Serial No. 327,205; published Dec. 27, 1932. Class 39.
Varilla, G. Bunau, Boulogne, France. Cleaning brushes, hair brushes, nail brushes, etc. 304,582; July 11; Serial No. 335,305; published Apr. 25, 1933. Class 29.
Velvet Mitten Company. (See Bayley, Thomas W.)
Victor Flour Mills, Inc., Pittsford, N. Y. Wheat flour. 304,474; July 11; Serial No. 335,529; published Apr. 25, 1933. Class 46.
Vitelli, F., & Figlio, New York, N. Y. Canned peeled tomatoes. 304,626; July 11; Serial No. 334,895; published Apr. 25, 1933. Class 46.
Vogue Brassiere Mfg. Co., Newark, N. J. Corsets, brassières, girdles, etc. 304,577; July 11; Serial No. 334,585; published Apr. 11, 1933. Class 39.
Vogue Brassiere Mfg. Co., Newark, N. J. Corsets and brassières and combinations. 304,602; July 11; Serial No. 330,587; published Nov. 29, 1932. Class 39.
Voneiff-Drayer Co., The, Baltimore, Md. Candy. 304,501; July 11; Serial No. 335,101; published Apr. 25, 1933. Class 46.
Voneiff-Drayer Co., The, Baltimore, Md. Candy. 304,504; July 11; Serial No. 335,101; published Apr. 25, 1933. Class 46.
Walt, Justin F., New York, N. Y. Lubricating oils and greases, gasoline, etc. 304,509; July 11; Serial No. 335,176; published Apr. 18, 1933. Class 15.
Waldes & Cie., Prague-Wrschowitz, Austria-Hungary, assignor, by mesne assignments, to Waldes Koh-I-Noor Inc., Long Island City, N. Y. Snap-buttons. 86,648; renewed May 21, 1932.
Waldes & Co., Prague-Wrschowitz, Austria-Hungary, assignor, by mesne assignments, to Waldes-Koh-I-Noor, Inc., Long Island City, N. Y. Snap buttons used as garment fasteners. 92,019; renewed June 10, 1933.
Waldes & Co., Prague-Wrschowitz, Austria-Hungary, assignor, by mesne assignments, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Snap buttons. 92,150–1; renewed June 17, 1933.
Watkins, J. R., Company, The, Winona, Minn., and Newark, N. J. Astringents, bleach creams, etc. 304,690; July 11; Class 6.
Weaver, Jackson Company, Los Angles, Calif. Permanent-wave hair pads. 304,546; July 11; Serial No. 333,645; published Apr. 25, 1933. Class 44.
Weiser, Aaron, doing business as Aaron Coffee Company, Philadelphia, Pa. Coffee and tea. 304,532; July 11; Serial No. 335,376; published Apr. 25, 1933. Class 46.
Welco Laboratories. (See Welicka, Frank J.)
Welicka, Frank J., doing business as Welco Laboratories, Jamaica, N. Y. Liniment. 304,574; July 11; Serial No. 334,723; published Apr. 11, 1933. Class 6.
Whedon, Inc., Buffalo, N. Y. Chairs. 304,535; July 11; Serial No. 333,092; published Apr. 25, 1933. Class 32.
Whitcher, Frank W., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Heels and soles for boots and shoes. 40,469; renewed June 2, 1933.
Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy. 304,581; July 11; Serial No. 335,377; published Apr. 25, 1933. Class 46.
Whittemore Bros. Corp., Cambridge, Mass. Brushes and materials for cleaning, etc., leather goods. 304,443; July 11; Serial No. 324,577; published Apr. 25, 1933. Class 4.
Wilkins-Rogers Milling Co., Inc., Washington, D. C. Wheat flour. 304,505; July 11; Serial No. 335,147; published Apr. 18, 1933. Class 46.
Willapoint Oysters Incorporated, Seattle, Wash. Canned raw oysters and canned cooked oysters. 304,644; July 11; Serial No. 334,725; published Apr. 25, 1933. Class 46.
Williams, Clarence E., Chicago, Ill. Popcorn confections. 304,526; July 11; Serial No. 325,928; published Apr. 25, 1933. Class 46.
Williams, J. B., Company, The, Glastonbury, Conn. Preparations for the hair and beard, toilet powders, etc. 304,496; July 11; Serial No. 335,045; published Apr. 25, 1933. Class 66.
Woolfolk, J. W., Co., Inc., The, Fort Valley, Ga. Insecticide and fungicide composition. 304,655; June 11; Serial No. 313,573; published Apr. 25, 1933. Class 6.
Worthal, Ltd., New York, N. Y. Antacid salt. 304,611; July 11; Serial No. 334,783; published Apr. 11, 1933. Class 6.
Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany. Chemical pulp, sulphite and sulphate pulp and mechanical pulp. 304,521; July 11; Serial No. 328,199; published Apr. 25, 1933. Class 1.

LIST OF REGISTRANTS OF LABELS

Archer, P. D., Kansas City, Mo. Rainbo. For Bread. 42,365; July 11.
Archer, P. D., Kansas City, Mo. Rainbo. For Cookies. 42,366; July 11.
Bain, Mrs., Washington, D. C. Mrs. Bains Muffilte. For Mixture Containing Flour and Other Ingredients for muffins, Shortcake and the Like. 42,367; July 11.
Beck, C. O., Kansas City, Mo. Colonial. For Bread. 42,368; July 11.
Berkshire & Becket Silk Co. (See Collingbourne Mills Inc.)
Brooks, W. H., San Francisco, Calif. Fresh and Sparkling as the dew in the dawn. For Fruit Cake. 42,369; July 11.

China American Corporation Ltd., Tacoma, Wash. Facoma Island Belle Grape Juice. For Grape Juice. 42,370; July 11.

Collingbourne Mills Inc., doing business as Dexter Virginia Snow Studios, Jap Silk Co., and Berkshire & Becket Silk Co., Elgin, Ill. Flower Basket Pillow Outfit Article V. S. 80—Design 2585. For Pillow Outfits. 42,371; July 11.

Collingbourne Mills Inc., doing business as Dexter, Virginia Snow Studios, Jap Silk Co., and Berkshire & Becket Silk Co., Elgin, Ill. Apple Blossom Pillow Outfit, Article V. S. 80—Design 2586. For Pillow Outfits. 42,372; July 11.

Collingbourne Mills Inc., doing business as Dexter, Virginia Snow Studios, Jap Silk Co., and Berkshire & Becket Silk Co., Elgin, Ill. Floral Wreath Pillow Outfit Article V. S. 80—Design 2587. For Pillow Outfits. 42,373; July 11.

Collingbourne Mills Inc., doing business as Dexter, Virginia Snow Studios, Jap Silk Co., and Berkshire & Becket Silk Co., Elgin, Ill. A Rose for your Pillow Outfit, Article V. S. 80—Design 2588. For Pillow Outfits. 42,374; July 11.

Collingbourne Mills Inc., doing business as Dexter, Virginia Snow Studios, Jap Silk Co., and Berkshire & Becket Silk Co., Elgin, Ill. Century of Progress Pillow Outfit. Article V. S. 80—Design 2590. For Pillow Outfits. 42,375; July 11.

Dexter. (See Collinbbourne Mills Inc.)

Fischer Baking Company, Newark, N. J. Fischer's Old Home. For Vienna Bread. 42,376; July 11.

Fischer Baking Company, Newark, N. J. Fischer's Old Home. For Rye Bread. 42,377; July 11.

Garden Index Co. Inc., New York, N. Y. Garden-Index. For Indexes. 42,378; July 11.

Institute of Carpet Manufacturers of America, Inc., New York, N. Y. Weave Truth With Trust. For Fabrics. 42,379; July 11.

Jap Silk Co. (See Collingbourne Mills Inc.)

Keystone Oils. (See Lipits, Jacob.)

King, Grace A., Chicago, Ill. School Teachet Coffee. For Coffee. 42,380; July 11.

Kool Chemical Co., The. (See Piper, W. G.)

Krug, George A., Baking Company, Jamaica, N. Y. Krug's Whole Wheat Bread. For Bread. 42,381; July 11.

Krug, George A., Baking Company, Jamaica, N. Y. Krug's Big-Pan Bread. For Bread. 42,382; July 11.

Krug, George A., Baking Company, Jamaica, N. Y. Krug's Rye Bread. For Bread. 42,383; July 11.

Krug, George A., Baking Company, Jamaica, N. Y. Krug's Sliced Bread. For Bread. 42,384; July 11.

Krug, George A., Baking Company, Jamaica, N. Y. Krug's Toastmaser Bread. For Bread. 42,385; July 11.

Leston Company, St. Louis, Mo. Leston's "Creole Relish". For Relish. 42,386; July 11.

Lipits, J., doing business as Keystone Oils and Naval Stores, Grenlock, N. J. Polar Seal. For Anti-Freeze Preparation Consisting of Glycerine and Alcohol for Use in Automobile Radiators. 42,387; July 11.

Lithographic Technical Foundation, Inc., New York, N. Y. Lithoterps. For Lithographic Solvent. 42,388; July 11.

Moskow, Eva, doing business as Nonparey Laboratories, Los Angeles, Calif. Nonparey. For Antiseptic Powder. 42,389; July 11.

Nassour Brothers Inc. Ltd., Los Angeles, Calif. Nassour Balm. For Balm for Softening the Skin. 42,390; July 11.

Naval Stores. (See Lipits, J.)

Nonparey Laboratories. (See Moskow, Eva.)

Paul, Peter, Inc., Naugatuck, Conn. Cream Mints. For Cream Mints. 42,391; July 11.

Piper, Winfield Graves, doing business as The Kool Chemical Co. Kool. For Cream for Tired Burning Feet. 42,392; July 11.

Quill Ink Corporation, New York, N. Y. Quill, The Perfect Ink for Your Pen. For Ink. 42,393; July 11.

Sinn Brothers, New York, N. Y. Golden-Tip. For Tea. 42,394; July 11.

Standard Cap and Seal Corporation, Chicago, Ill. The Standard Welded Wire Hood Seal. For Hood Seals for Bottles. 42,395; July 11.

StroHEcker. (See Strohecker, Henry E.)

Strohecker, Henry E., doing business as StroHEcker, Enon Valley, Pa. Trig' Arrow Puzzle. For Puzzles. 42,396; July 11.

Upholserers', Carpet and Linoleum Mechanics' International Union of North America, New York, N. Y. Upholserers', Carpet and Linoleum Mechanics' International Union of N. A. For Upholstered Furniture, Mattresses, Box Springs, Curtains, Draperies and Shades. 42,397; July 11.

Virginia Snow Studios. (See Collingbourne Mills Inc.)

Western Dairy Products, Seattle, Wash. Eat Sunfreze Ice Cream For Vital Energy. For Ice Cream. 42,398; July 11.

Wilson Products Co., Inc., The, Tyrone, Pa. Caramet Nut Popcorn Confection. For Popcorn Confection. 42,399; July 11.

LIST OF REGISTRANTS OF PRINTS

Armour and Company, Chicago, Ill. Armour's Star Ham. 14,258; July 11.

Dixie Service Stations Incorporated, Jackson, Miss. Dixie Service Station Products. For Oil and Gas. 14,259; July 11.

Fitzgerald, Daniel F., Boston, Mass. Happy Days to All. For Publication Entitled National Liquor Trades Review. 14,260; July 11.

General Mills, Inc., Minneapolis, Minn. This Week Your Baker is Baking This Betty Crocker Milk Chocolate Cake. For Flour. 14,261; July 11.

Goodrich, B. F., Rubber Company, The, Akron, Ohio. Now You'll be 3 Times Safer from Blow-Outs at High Speeds (Ad. No. GP—2). For Rubber Tires. 14,262; July 11.

Goodrich, B. F., Rubber Company, The, Akron, Ohio. Banish Fear of Blow-Outs (Ad No. GP–4). For Rubber Tires. 14,263; July 11.

Goodrich, B. F., Rubber Company, The, Akron, Ohio. Why Risk Your Life When Blow-Out Protection Is Free? (Ad No. GP–5). For Rubber Tires. 14,264; July 11.

Goodrich, B. F., Rubber Company, The, Akron, Ohio. Avoid Blow-Outs . . . With This Amazing New Tire Invention (AD NO. GBC–813). For Rubber Tires. 14,265; July 11.

Orbit Gum Company, Chicago, Ill. Tatoo Chewing Gum—Dogs—Dorgs—Dawgs. For Chewing Gum. 14,266; July 11.

StroHEcker. (See Strohecker, Henry E.)

Strohecker, Henry E., doing business as StroHEcker, Enon Valley, Pa. The Trig' Puzzle. For Novelty Puzzles. 14,267; July 11.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Gums and hops. Jsburg Brothers, Inc. 304,604; July 11; Serial No. 330,851; published Jan. 3, 1933.

Pulp, chemical, sulphite, and sulphate, Mechanical. Zellstoffabrik Waldhof. 304,521; July 11; Serial No. 328,199; published Apr. 25, 1933.

CLASS 2

Wrappers, bags, and cartons. Shellmar Products Company. 304,495; July 11; Serial No. 335,074; published Apr. 25, 1933.

CLASS 4

Brushes and materials for cleaning, etc., leather goods. Whittemore Bros. Corp. 304,443; July 11; Serial No. 324,577; published Apr. 25, 1933.

Cleaning compound, Paint. Cleveland Cleaner and Paste Co. 304,451; July 11; Serial No. 334,984; published Apr. 25, 1933.

Cleanser, polishes, and dressing, Shoe. Shu-Milk Products Corporation. 304,492; July 11; Serial No. 335,006; published Apr. 25, 1933.

Compound for cleaning wall paper, frescos, etc. Cleveland Cleaner and Paste Co. 304,450; July 11; Serial No. 334,983; published Apr. 25, 1933.

Cream, Shaving. Richard Hudnut. 304,481; July 11; Serial No. 335,595; published Apr. 25, 1933.

Powder for artificial teeth, Sterilizing, cleansing. L. W. Lockwood. 304,589; July 11; Serial No. 335,280; published Apr. 25, 1933.

Preparation for removing spots, stains, etc. Garfinkel & Ritter. 304,629; July 11; Serial No. 334,558; published Apr. 25, 1933.

Soap. Colgate-Palmolive-Peet Company. 304,487; July 11; Serial No. 335,768; published Apr. 25, 1933.

CLASS 6

Almond meal. J. L. Hopkins & Co. 304,675; July 11.

Anti-asthmatic cigarettes containing no tobacco. S. A. Grau. 91,201; renewed Apr. 22, 1933.

Anti-asthmatic fumigating-paper. S. A. Grau. 91,202; renewed Apr. 22, 1933.

Anti-freeze compound. Tennessee Eastman Corporation. 304,653; July 11; Serial No. 335,405; published Apr. 25, 1933.

Astringents, astringent cerates, bleach and beauty creams, etc. Comfort Manufacturing Company. 304,491; July 11; Serial No. 335,018; published Apr. 25, 1933.

Astringents, astringent cerates, bleach and beauty creams, etc. Parfumerie St. Denis. 304,542; July 11; Serial No. 333,468; published Apr. 25, 1933.

Astringents, bleach creams, etc. J. R. Watkins Company. 340,690; July 11.

Carbon black. Godfrey L. Cabot, Inc. 304,537; July 11; Serial No. 333,219; published Apr. 25, 1933.

Carbon decomposer, anti-freeze compound, etc. R. M. Hollingshead Co. 304,643; July 11; Serial No. 332,390; published Apr. 25, 1933.

Chemical dye acids. H. Th. Böhme Aktiengesellschaft. 304,620; July 11; Serial No. 334,861; published Apr. 11, 1933.

Chemical dye aids. H. Th. Böhme Aktiengesellschaft. 304,622–3; July 11; Serial Nos. 334,862–3; published Apr. 11, 1933.

Chemical dye aids. H. Th. Böhme Aktiengesellschaft. 304,625; July 11; Serial No. 334,864; published Apr. 11, 1933.

Cod liver oil and compound. McCoy's Laboratories, Inc. 304,465; July 11; Serial No. 335,512; published Apr. 25, 1933.

Cosmetics. Standard Cosmetic Company. 304,684; July 11.

Cream, Facial. Pepsodent Company. 304,570; July 11; Serial No. 334,468; published Apr. 11, 1933.

Cream, hand lotions, after shave lotion, etc., Cold. J. Thierry. 304,647; July 11; Serial No. 332,240; published Apr. 25, 1933.

Cream, wrinkle remover, deodorants, etc., Cold. Perfumer and Cosmetic Guild Corporation. 304,556; July 11; Serial No. 334,289; published Apr. 11, 1933.

Fluid for use in stenciling. A. B. Dick Company. 93,974; renewed Oct. 28, 1933.

Hair tonics, skin lotions, etc. Dolly Grayson Company. 304,677; July 11.

Insecticide. O. K. Owen. 304,522; July 11; Serial No. 327,600; published Apr. 25, 1933.

Insecticide and disinfectant. J. W. Bullen. 304,514; July 11; Serial No. 329,300; published Sept. 20, 1932.

Insecticide and fungicide composition. J. W. Woolfolk Co. 304,655; July 11; Serial No. 313,573; published Apr. 25, 1933.

Insecticides. John Lecroy & Son. 304,576; July 11; Serial No. 334,683; published Apr. 11, 1933.

Insecticides. Sherwin-Williams Company. 304,475; July 11; Serial No. 335,524; published Apr. 25, 1933.

Liniment. Nox-Kwik Company. 304,567; July 11; Serial No. 334,510; published Apr. 25, 1933.

Liniment. F. J. Welicka. 304,574; July 11; Serial No. 334,723; published Apr. 11, 1933.

Lotions, Hand, face and skin. J. S. Houle. 304,550; July 11; Serial No. 333,831; published Apr. 11, 1933.

Medical compounds to be used for treatment of stomach ulcers, etc. M. A. Mellenthin. 304,681; July 11.

Medicinal oil. J. J. Norton. 304,573; July 11; Serial No. 334,716; published Apr. 11, 1933.

Medicinal preparation. W. B. Jones. 92,227; renewed June 24, 1933.

Medicinal preparation. M. S. Lehrfeld. 304,624; July 11; Serial No. 334,879; published Apr. 11, 1933.

Milk magnesia. G. W. Alberty. 304,563; July 11; Serial No. 334,038; published Apr. 11, 1933.

Oil, hair tonic, liniment, etc., Lubricating. M. J. Sullivan. 304,446; July 11; Serial No. 334,939; published Apr. 25, 1933.

Ointment and toilet cream. A. F. Smith. 304,547; July 11; Serial No. 333,783; published Apr. 25, 1933.

Pastils and lozenges, Medicated. S. A. Grau. 91,200; renewed Apr. 22, 1933.

Perfumery. Georg Bralle, Firm. 304,657; July 11; Serial No. 318,897; published Apr. 25, 1933.

Perfumes. Robert Enterprises, Inc. 304,494; July 11; Serial No. 335,022; published Apr. 25, 1933.

Perfumes, face creams, talcum powder, etc. A. A. Dort. 304,442; July 11; Serial No. 324,092; published Apr. 25, 1933.

Perfumes, toilet waters, bath salts, etc. Parfumerie Rigaud, Inc. 304,565; July 11; Serial No. 334,023; published Apr. 25, 1933.

Perfumes, toilet waters, rouge, etc. Societe a Responsabilite Limitee: le Bakerfix. 304,564; July 11; Serial No. 334,076; published Apr. 25, 1933.

Perfumes, toilet waters, rouges, etc. Les Laboratoires Dausse, Societe Anonyme. 304,551; July 11; Serial No. 334,865; published Apr. 25, 1933.

Powder bases, massage oils, etc. Beatrice Mabie, Inc. 304,676; July 11.

Powder, Face. Houbigant, Inc. 304,482; July 11; Serial No. 335,640; published Apr. 25, 1933.

Preparation for indigestion. H. Barst. 304,498; July 11; Serial No. 335,082; published Apr. 25, 1933.

Preparation for sinus infections, catarrh, etc. R. S. Bennett. 304,553; July 11; Serial No. 334,344; published Apr. 25, 1933.

Preparations for the hair and beard, toilet powders, etc. J. B. Williams Company. 304,496; July 11; Serial No. 335,045; published Apr. 25, 1933.

Preparations for the prevention and treatment of stomach and bowel ailments. Easy Teether Medicine Co. 304,671; July 11.

Products for mordanting, fixing, etc., in the dyeing and printing of textile fibers, Auxiliary. Durand & Huguenin A. G. 304,688; July 11.

Remedy. Chemical Works formerly Sandoz. 40,596; renewed June 16, 1933.

Salt, Antacid. Worthall, Ltd. 304,611; July 11; Serial No. 334,783; published Apr. 11, 1933.

Salve. A. D. Green. 304,448; July 11; Serial No. 334,995; published Apr. 25, 1933.

Skin salve preparations and facial creams, etc. Pharma-Craft Corporation. 304,674; July 11.

CLASS 7

Rope and twine. Plymouth Cordage Company. 92,577; renewed July 15, 1933.

CLASS 9

Cartridges, Gun and revolver. Sears, Roebuck and Co. 304,589; July 11; Serial No. 335,300; published Apr. 25, 1933.

CLASS 10

Fertilizer. Capitol Rendering Works, Inc. 304,466; July 11; Serial No. 335,497; published Apr. 25, 1933.

Fertilizer, Plant. Commercial Laboratories, Inc. 304,479; July 11; Serial No. 335,665; published Apr. 25, 1933.

Fertilizers. American Agricultural Chemical Company. 92,160; renewed June 24, 1933.

Fertilizers. J. E. Tygert Company. 93,395; renewed Sept. 9, 1933.

CLASS 13

Nails, nuts, bolts, and rivets, etc. A. O. Meyer. 91,500; renewed May 6, 1933.

CLASS 14

Copper and copper alloys. Copper & Brass Research Association. 304,541; July 11; Serial No. 333,506; published Apr. 25, 1933.

Metal and wire, Sheet. Chase Brass & Copper Co. Incorporated. 304,538; July 11; Serial No. 333,146; published Apr. 25, 1933.

Steel, etc., Joist, channel, angle. Dorman, Long & Co. 304,554; July 11; Serial No. 334,350; published Apr. 25, 1933.

Wire, Copper. American Brass Company. 94,148; renewed Nov. 11, 1933.

CLASS 15

Oils and greases, gasoline, etc., Lubricating. J. F. Walt. 304,509; July 11; Serial No. 335,176; published Apr. 18, 1933.

CLASS 16

Brush cleaner. Cleveland Cleaner and Paste Co. 304,447; July 11; Serial No. 334,985; published Apr. 25, 1933.

Paints, Paste. National Chemical & Manufacturing Company. 304,519; July 11; Serial No. 327,255; published Nov. 22, 1932.

Polish, Liquid. William Chambers & Son. 94,164; renewed Nov. 11, 1933.

Size, Wall. Cleveland Cleaner and Paste Co. 304,453; July 11; Serial No. 334,982; published Apr. 25, 1933.

Wax, Polishing. S. C. Johnson & Son. 304,665; July 11; Serial No. 320,592; published Apr. 25, 1933.

CLASS 17

Cigars. Bayuk Cigars Incorporated. 304,486; July 11; Serial No. 335,762; published Apr. 25, 1933.

Tobacco and cigarettes. A. Levy. 41,221; renewed Oct. 6, 1933.

Tobacco and cigarettes. A. Levy. 41,324; renewed Oct. 20, 1933.

CLASS 19

Boats, Motor. H. P. Prigg. 304,672; July 11.

Caps, Radiator and gasoline filler. Stant Manufacturing Company. 304,527; July 11; Serial No. 326,965; published Apr. 25, 1933.

Caps, Radiator and gasoline filler. Stant Manufacturing Company. 304,528; July 11; Serial No. 326,960; published Apr. 25, 1933.

CLASS 21

Electric coffee-mills, etc. Hobart Electric Mfg. Co. 92,217; renewed June 24, 1933.

Electric fans. Knapp-Monarch Company. 304,529; July 11; Serial No. 325,331; published June 7, 1932.

Horns, Electric. Sears, Roebuck and Co. 92,270; renewed June 24, 1933.

Lights for vehicles. J. T. Burt-Gerrans. 304,669; July 11; Serial No. 323,978; published Apr. 18, 1933.

Radio and television tubes. Triad Manufacturing Co. 304,585; July 11; Serial No. 335,303; published Apr. 18, 1933.

CLASS 22

Balls, bats, rackets, etc. Draper-Maynard Company. 304,646; July 11; Serial No. 332,577; published Apr. 25, 1933.

Dolls. B. Behrman. 304,488; July 11; Serial No. 335,763; published Apr. 25, 1933.

Fishing tackle. Rankin & Co. 304,692; July 11.

Puzzles. Forsheim & Konigsberg. 91,765; renewed May 27, 1933.
Puzzles. Holabird Company. 304,485; July 11; Serial No. 335,722; published Apr. 25, 1933.
Puzzles, Picture. Hamblet Studios, Inc. 304,467; July 11; Serial No. 335,505; published Apr. 25, 1933.
Skates, tennis rackets, and handball gloves. Davega-City Radio Stores, Inc. 304,648; July 11; Serial No. 332,252; published Feb. 21, 1933.
Toy balloons, Rubber. American Anode Inc. 304,651–2; July 11; Serial Nos. 335,387–8; published Apr. 25, 1933.
Toy balloons, Rubber. American Anode Inc. 304,654; July 11; Serial No. 335,389; published Apr. 25, 1933.
Toy drawing books. E. L. Harris. 304,459; July 11; Serial No. 335,465; published Apr. 25, 1933.

CLASS 23

Cutting head for drill steel. Ingersoll-Rand Company. 304,500; July 11; Serial No. 335,093; published Apr. 25, 1933.
Graters, Kitchen. Ace Products Company. 304,571; July 11; Serial No. 334,377; published Apr. 25, 1933.
Horns, Signaling. Trico Products Corporation. 304,661; July 11; Serial No. 308,400; published Feb. 3, 1931.
Horns, signaling. Trico Products Corporation. 304,664; July 11; Serial No. 308,401; published Feb. 3, 1931.
Machinery and parts thereof. Bradspeed Corporation. 304,545; July 11; Serial No. 333,726; published Apr. 25, 1933.
Milling machine. Orville Simpson Company. 93,111; renewed Aug. 19, 1933.
Pumps for oil burners. C & H Sales Corporation. 304,566; July 11; Serial No. 334,035; published Apr. 25, 1933.
Separators, Rotary grain. Kalker Trieurfabrik und Fabrik Gelochter Bleche Mayer & Cie Aktiengesellschaft. 304,578; July 11; Serial No. 334,608; published Apr. 25, 1933.

CLASS 24

Ironing tables. National Washboard Company. 304,454; July 11; Serial No. 335,470; published Apr. 25, 1933.
Ironing tables. National Washboard Company. 304,456–7; July 11; Serial Nos. 335,468–9; published Apr. 25, 1933.
Ironing tables. National Washboard Company. 304,458; July 11; Serial No. 335,475; published Apr. 25, 1933.
Ironing tables. National Washboard Company. 304,460–3; July 11; Serial Nos. 335,471–4; published Apr. 25, 1933.

CLASS 25

Locks, keys, and key blanks. Dudley Lock Corporation. 304,680; July 11.

CLASS 26

Barometers. Taylor Instrument Companies. 92,598; renewed July 15, 1933.
Gauging attachment for making shoe lasts, Upper. Brauer Bros. Inc. 304,517; July 11; Serial No. 330,028; published Apr. 25, 1933.
Paper, Blue print. Keuffel and Esser Company. 40,581; renewed June 16, 1933.
Photographic developing solutions and for other chemical baths. General Electric X-Ray Corporation. 304,539; July 11; Serial No. 333,287; published Apr. 25, 1933.

CLASS 27

Watches, watch movements, and parts thereof. Societe Anonyme de la Fabrique d'Horlogerie le Coultry & Cie. 304,606–7; July 11; Serial Nos. 331,013–14; published Apr. 25, 1933.

CLASS 29

Brushes, hair nail, etc., Cleaning. G. Bunau Varilla. 304,582; July 11; Serial No. 335,305; published Apr. 25, 1933.

CLASS 31

Refrigerators, Electrical. Crosley Radio Corporation. 304,471; July 11; Serial No. 335,478; published Apr. 25, 1933.

CLASS 32

Chairs. Whedon, Inc. 304,535; July 11; Serial No. 333,092; published Apr. 25, 1933.
Chairs and ottomans, Kitchen. Sears, Roebuck and Co. 304,584; July 11; Serial No. 335,301; published Apr. 25, 1933.
Shades, Porch and window. International Distributing Co. 304,583; July 11; Serial No. 335,320; published Apr. 25, 1933.

CLASS 34

Burners, Oil. Kaveny Brothers, Inc. 304 668; July 11; Serial No. 321,542; published Sept. 13, 1932.
Burners, Oil. Sherwood Bros., Inc. 304,468; July 11; Serial No. 335,481; published Apr. 25, 1933.

CLASS 35

Tires, Rubber. Sears, Roebuck and Co. 92,134; renewed June 17, 1933.

CLASS 36

Harmonicas and violin string adjusters. Sears, Roebuck and Co. 304,621; July 11; Serial No. 334,848; published Apr. 18, 1933.
Talking machines and records. Columbia Graphophone Company. 83,428; renewed Sept. 16, 1933.

CLASS 37

Crayons, Toy. Ullman Manufacturing Company. 304,687; July 11, 1933.
Paper. A. B. Dick Company. 92,879; renewed Aug. 5, 1933.
Paper, Bond. Millers Falls Paper Company. 304,658; July 11; Serial No. 317,645; published Nov. 8, 1932.
Paper, Bond. Rockwell-Barnes Company. 304,484; July 11; Serial No. 335,567; published Apr. 25, 1933.
Paper, Drawing. Keuffel and Esser Company. 40,516; renewed June 9, 1933.
Paper, Writing. Sir Isaac Pitman & Sons, Limited. 41,318; renewed Oct. 20, 1933.
Paper, Writing and cleansing tissue. Lane Drug Stores, Incorporated. 304,678; July 11, 1933.

CLASS 38

Magazine. Petrolagar Laboratories, Inc. 304,478; July 11; Serial No. 335,521; published Apr. 25, 1933.
Periodical. Street & Smith Publications, Inc. 304,502; July 11; Serial No. 335,099; published Aug. 25, 1933.
Periodicals. L. G. Treadway Service Corporation. 304,596; July 11; Serial No. 335,372; published Apr. 25, 1933.
Publications. Conover & Mast. 304,650; July 11; Serial No. 332,086; published Apr. 25, 1933.

CLASS 39

Boots and shoes. International Shoe Co. 304,555; July 11; Serial No. 334,284; published Apr. 11, 1933.
Boots and shoes. Sears, Roebuck and Co. 304,569; July 11; Serial No. 334,410; published Apr. 18, 1933.
Boots, shoes, etc., Rubber. Hood Rubber Company. 91,874; renewed June 3, 1933.
Brassières. Chas. R. De Bevoise Co. 304,560; July 11; Serial No. 334,143; published Apr. 11, 1933.
Clothing, Articles of. P. L. Dunne Co. 304,667; July 11; Serial No. 321,993; published Apr. 26, 1932.
Corset girdles. Kops Brothers, Inc. 304,562; July 11; Serial No. 334,107; published Apr. 18, 1933.
Corsets, brassières, and combination. Vogue Brassiere Mfg. Co. 304,602; July 11; Serial No. 330,587; published Nov. 29, 1932.
Corsets, Brassières, girdles, etc. Vogue Brassiere Mfg. Co. 304,577; July 11; Serial No. 334,585; published Apr. 11, 1933.
Girdles, brassières, etc. Sandfelder Bros. Co. 304,627; July 11; Serial No. 334,887; published Apr. 18, 1933.
Gloves and/or mittens. W. P. Murray. 304,489; July 11; Serial No. 336,330; published May 9, 1933.
Gloves, Rubber. United Drug Company. 304,543; July 11; Serial No. 333,641; published Apr. 11, 1933.
Hats. Ben Turchin & Bro. Inc. 304,689; July 11.
Hats. Carson Pirie Scott and Company. 304,682; July 11.
Hats and caps. Bee Hat & Cap Co. 404,558; July 11; Serial No. 334,243; published Apr. 18, 1933.
Heels and soles for boots and shoes. F. W. Whitcher. 40,469; renewed June 2, 1933.
Hosiery, hats, underwear, etc. Best & Co. 304,508; July 11; Serial No. 335,158; published Apr. 18, 1933.
Shoes. Brown Shoe Company. 304,523; July 11; Serial No. 325,512; published July 5, 1932.
Shoes. J. J. Grover Shoe Company. 304,666; July 11; Serial No. 320,250; published Apr. 25, 1933.
Shoes. Harry Sir & Son, Inc. 304,440; July 11; Serial No. 324,804; published Apr. 25, 1933.
Shoes. Marion Shoe Company. 304,540; July 11; Serial No. 333,263; published Apr. 25, 1933.
Shoes. A. Posner. 92,465; renewed July 8, 1933.
Shoes. E. P. Reed & Company. 304,549; July 11; Serial No. 333,894; published Apr. 11, 1933.
Shoes, Ladies'. La Valle, Inc. 304,642; July 11; Serial No. 334,754; published Apr. 11, 1933.
Shoes, Women's. Julian & Kokenge Company. 304,670; July 11; Serial No. 323,946; published Apr. 25, 1933.
Slips. Garfinkel & Ritter. 304,618; July 11; Serial No. 334,833; published Apr. 4, 1933.
Soles for shoes, Middle. Endicott Johnson Corporation. 304,575; July 11; Serial No. 334,674; published Apr. 11, 1933.
Suits and suspenders, Bathing. Sinclair Knitting Mills Inc. 304,499; July 11; Serial No. 335,097; published Apr. 18, 1933.
Suspenders, including shirt hold down attachment. Hickok Manufacturing Company. 304,513; July 11; Serial No. 329,334; published Apr. 11, 1933.
Suspenders, including shirt hold down attachments. Hickok Manufacturing Company. 304,516; July 11; Serial No. 329,349; published Apr. 11, 1933.
Undergarments. I. B. Kleinert Rubber Company. 304,588; July 11; Serial No. 335,277; published Apr. 25, 1933.
Underwear. Luxite Silk Products Co. 304,445; July 11; Serial No. 334,924; published Apr. 25, 1933.
Underwear and hosiery. Vanity Fair Silk Mills. 304,520; July 11; Serial No. 327,205; published Dec. 27, 1932.

CLASS 40

Buttons. Siemon Company. 304,552; July 11; Serial No. 334,372; published Apr. 18, 1933.
Laces, Shoe. B. Gittleman. 304,645; July 11; Serial No. 332,812; published Apr. 18, 1933.

Needles. John Thornton & Company. 304,597; July 11; Serial No. 331,808; published Apr. 18, 1933.
Snap-buttons. Waldes & Cie. 86,648; renewed May 21, 1932.
Snap-buttons. Waldes & Co. 92,019; renewed June 10, 1933.
Snap-buttons. Waldes & Co. 92,150–1; renewed June 17, 1933.

CLASS 41

Parasols and umbrellas. F. Revel Pere & Fils. 93,117; renewed Aug. 19, 1933.

CLASS 42

Blankets, Bed. F. C. Huyck & Sons. 304,525; July 11; Serial No. 326,511; published June 7, 1932.
Cotton piece goods. J. A. Finn & Co. 304,691; July 11.
Fabrics. Fred Butterfield & Co. 304,568; July 11; Serial No. 334,519; published Apr. 11, 1933.
Fabrics of cellulose derivatives. Celanese Corporation of America. 304,595; July 11; Serial No. 335,187; published Apr. 25, 1933.
Handkerchiefs. Rochester Co. Inc. 304,506; July 11; Serial No. 335,132; published Apr. 18, 1933.
Pile fabrics. Rossie Velvet Company. 304,638–41; July 11; Serial Nos. 334,764–72; published Apr. 11, 1933.
Pile fabrics. Sidney Blumenthal & Co. Inc. 304,441; July 11; Serial No. 334,907; published Apr. 25, 1933.
Pile fabrics. Sidney Blumenthal & Co. Inc. 304,524; July 11; Serial No. 325,420; published May 10, 1932.
Pile fabrics in the piece. Sidney Blumenthal & Co. Inc. 304,440; July 11; Serial No. 334,908; published Apr. 25, 1933.
Rayon and silk goods, Knitted. Progressive Knitted Rayon Fabric Mills, Inc. 304,493; July 11; Serial No. 335,034; published Apr. 18, 1933.
Sheets. Naumkeag Steam Cotton Company. 304,594; July 11; Serial No. 335,365; published Apr. 25, 1933.
Sheets. Naumkeag Steam Cotton Company. 304,599; July 11; Serial No. 335,366; published Apr. 25, 1933.
Silk fabrics. Onondaga Silk Company. 304,590; July 11; Serial No. 335,209; published Apr. 25, 1933.
Silk fabrics. Onondaga Silk Company. 304,593; July 11; Serial No. 335,208; published Apr. 25, 1933.
Woolen piece goods. Forstmann Woolen Co. 304,497; July 11; Serial No. 335,087; published Apr. 18, 1933.
Woolen piece goods. Forstmann Woolen Co. 304,631; July 11; Serial No. 334,529; published Apr. 11, 1933.
Woven textiles in the piece, Cotton, wool, etc. Blackstone, Stallman, Inc. 304,685; July 11.

CLASS 43

Thread and yarn. American Glanzstoff Corporation. 304,600–1; July 11; Serial Nos. 330,192–3; published Apr. 18, 1933.
Thread and yarn. Empire Twine & Yarn Co. 304,603; July 11; Serial No. 330,340; published Apr. 4, 1933.
Thread, Cotton. Standard-Coosa-Thatcher Company. 304,614–17; July 11; Serial Nos. 334,813–16; published Apr. 4, 1933.
Thread, Cotton. Standard-Coosa-Thatcher Company. 304,619; July 11; Serial No. 334,817; published Apr. 4, 1933.

CLASS 44

Abrasive articles used as a depilatory, etc. T. W. Bayley. 304,679; July 11.
Apparatus for determining sugar in urine. Schweiz-Serum- & Impfinstitut Bern. 304,586; July 11; Serial No. 335,299; published Apr 25, 1933.
Filling material for the teeth. Research Products Corporation. 304,510; July 11; Serial No. 335,173; published Apr. 25, 1933.
Pads, Permanent-wave hair. Weaver Jackson Company. 304,546; July 11; Serial No. 333,645; published Apr. 25, 1933.
Surgeon's rubber gloves. American Anode Inc. 304,533–4; July 11; Serial Nos. 335,382–3; published Apr. 25, 1933.
Surgeon's rubber gloves. American Anode Inc. 304 536; July 11; Serial No. 335,384; published Apr. 25, 1933.

CLASS 45

Beverages, syrups, compounds, concentrates for making the same, Maltless. Orange-Crush Company. 304,477; July 11; Serial No. 335,519; published Apr. 25, 1933.
Beverages, syrup used in making the same, Maltless. Richardson Corporation. 304,464; July 11; Serial No. 335,542; published Apr. 25, 1933.

CLASS 46

Alimentary paste, butter, candies, etc. Jaburg Brothers, Inc. 304,660; July 11; Serial No. 312,651; published Oct. 25, 1932.
Biscuits. National Biscuit Company. 304,557; July 11; Serial No. 334,154; published Apr. 25, 1933.
Bread. Huber Baking Co. 304,632; July 11; Serial No. 334,532; published Apr. 18, 1933.
Bread, cakes and pies. Dugan Brothers of New Jersey, Inc. 304,548; July 11; Serial No. 333,729; published Apr. 25, 1933.
Candies, ice cream fruit syrups, etc. Felton Chemical Company. 304,605; July 11; Serial No. 330,701; published Apr. 25, 1933.
Candy. Schwartz Merchandise Corporation. 304,515; July 11; Serial No. 329,915; published Apr. 18, 1933.
Candy. Stephen F. Whitman & Son, Inc. 304,531; July 11; Serial No. 335,377; published Apr. 25, 1933.
Candy. Voneiff-Drayer Co. 304,501; July 11; Serial No. 335,101; published Apr. 25, 1933.
Candy. Voneiff-Drayer Co. 304,504; July 11; Serial No. 335,102; published Apr. 25, 1933.
Canned and dried fruit, prunes; raisins, canned vegetables, etc. California Packing Corporation. 304,659; July 11; Serial No. 307,259; published Dec. 6, 1932.
Canned crab meat. Amtorg Trading Corporation. 304,663; July 11; Serial No. 308,716; published Apr. 25, 1933.
Canned fruits. Sunical Packing Company. 304,683; July 11, 1933.
Canned peeled tomatoes. F. Vitelli & Figlio. 304,626; July 11; Serial No. 334,895; published Apr. 25, 1933.
Canned raw oysters and canned cooked oysters. Villapoint Oysters Incorporated. 304,644; July 11; Serial No. 334,725; published Apr. 25, 1933.
Canned shrimps. Dorgan-McPhillips Packing Corporation. 304,469; July 11; Serial No. 335,484; published Apr. 25, 1933.
Cheese. Lakeshire Cheese Company. 304,579; July 11; Serial No. 335,360; published Apr. 25, 1933.
Coffee and tea. A. Weiser. 304,532; July 11; Serial No. 335,376; published Apr. 25, 1933.
Confections, Popcorn. C. E. Williams. 304,526; July 11; Serial No. 325,928; published Apr. 25, 1933.
Diet for allergic children, Cereal, egg, and milk free. Mead Johnson & Company. 304,580; July 11; Serial No. 335,328; published Apr. 25, 1933.
Extract, Vanilla. Joseph Burnett Co. 304,662; July 11; Serial No. 307,579; published Apr. 25, 1933.
Feed, Fox. Johnson's Fur & Sales Co. 304,444; July 11; Serial No. 334,919; published Apr. 25, 1933.
Flour. Oklahoma City Mill & Elevator Co. 40,738; renewed July 7, 1933.
Flour, Wheat. O. Edgeberg. 304,518; July 11; Serial No. 329,966; published Apr. 25, 1933.
Flour, Wheat. Kansas Milling Company. 304,598; July 11; Serial No. 330,093; published Nov. 1, 1932.
Flour, Wheat. Maney Milling Company. 92,809; renewed July 29, 1933.
Flour, Wheat. Victor Flour Mills, Inc. 304,474; July 11; Serial No. 335,529; published Apr. 25, 1933.
Flour, Wheat. Wilkins-Rogers Milling Co. 304,505; July 11; Serial No. 335,147; published Apr. 18, 1933.
Food jellies etc. Monkhouse and Glasscock Limited. 93,887; renewed Oct. 21, 1933.
Food products. Seeman Brothers, Inc. 304,686; July 11.
Fruits, Citrus. Lake Wales Citrus Growers Association. 304,452; July 11; Serial No. 334,965; published Apr. 25, 1933.
Gelatine dessert. Arcadia Food Co. 304,511; July 11; Serial No. 328,472; published Aug. 30, 1932.
Grapes, Fresh. J. J. Ettor. 304,512; July 11; Serial No. 331,427; published Nov. 29, 1932.
Gum, Chewing. Beech-Nut Packing Company. 304,483; July 11; Serial No. 335,560; published Apr. 25, 1933.
Gum, Smoke-containing chewing. Boyle & Burger. 304,649; July 11; Serial No. 331,947; published Apr. 18, 1933.
Juice, Canned pineapple. Hawaiian Pineapple Company. 304,455; July 11; Serial No. 334,964; published Apr. 25, 1933.
Macaroni. Joseph Petrocelli & Company. 94,320; renewed Nov. 25, 1933.
Mayonnaise. Pure Food Distributors, Inc. 304,507; July 11; Serial No. 335,171; published Apr. 18, 1933.
Meats, Cured. Geo. A. Hormel & Co. 41,178; renewed Sept. 29, 1933.
Milk product, Stabilized dry whey skimmed. Calwhey Co. 304,581; July 11; Serial No. 335,346; published Apr. 25, 1933.
Nuts, Processed. R. P. Moorman. 304,592; July 11; Serial No. 335,205; published Apr. 25, 1933.
Sauce and fried noodles, Bean. Furuya & Company. 304,544; July 11; Serial No. 333,584; published Apr. 18, 1933.
Syrup and macaroni, Malt. Joseph Antognoli & Co. 304 572; July 11; Serial No. 334,380; published Mar. 14, 1933.
Syrup, Concentrated liquid malt. Bachrach-Feld Company. 304,610; July 11; Serial No. 334,788; published Apr. 25, 1933.
Tea. Standard Brands Incorporated. 304,608–9; July 11; Serial Nos. 334,774–5; published Apr. 25, 1933.
Tea. Standard Brands Incorporated. 304,612–13; July 11; Serial Nos. 334,811–12; published Apr. 25, 1933.
Tomatoes. Palm Beach Loxahatchee Company. 304,503; July 11; Serial No. 335,129; published Apr. 25, 1933.
Vegetables, Fresh. J. L. Debenedetti. 304,530; July 11; Serial No. 327,134; published Aug. 16, 1932.

CLASS 48

Malt beverage. Berghoff Brewing Corporation. 304,472; July 11; Serial No. 335,546; published Apr. 25, 1933.
Malt beverage. C. and J. Michel Brewing Company. 304,559; July 11; Serial No. 334,110; published Apr. 25, 1933.
Malt beverage. Sterling Products Company. 304,656; July 11; Serial No. 335,454; published Apr. 25, 1933.

Malt beverages, Aktiengesellschaft Hackerbräu. 304,473; July 11.
Malt beverages. Globe Brewing Co. 304,490; July 11; Serial No. 335,864; published Apr. 25, 1933.

CLASS 49

Anisette Hijos de Francisco Serrano. 304,628; July 11; Serial No. 334,562; published Apr. 25, 1933.
Brandies and liquors, Anised. Hijos de Francisco Serrano. 304,630; July 11; Serial No. 334,561; published Apr. 25, 1933.
Whiskey. C. Marchant. 304,473; July 11; Serial No. 335,551; published Apr. 25, 1933.
Whisky, Scotch. Rowett, Legge & Co. Limited. 304,470; July 11; Serial No. 335,552; published Apr. 25, 1933.

CLASS 50

Floor coverings and mats. Buxbaum Company. 304,561; July 11; Serial No. 334,084; published Apr. 25, 1933.
Pads and lining, Carpet. Chicago Curled Hair Company. 304,480; July 11; Serial No. 335,717; published Apr. 25, 1933.
Pile fabrics used in packing silver. Crompton Company. 304,591; July 11; Serial No. 335,273; published Apr. 25, 1933.
Quilting frames or hoops. Stearns & Foster Co. 304,476; July 11; Serial No. 335,526; published Apr. 25, 1933.

LIST OF LABELS

A Rose for your Pillow Outfit, Article V. S. 80—Design 2588. For Pillow Outfits. Collingbourne Mills Inc. 42,374; July 11.
Apple Blossom Pillow Outfit, Article V. S. 80—Design 2586. For Pillow Outfits. Collingbourne Mills Inc. 42,372; July 11.
Caramel Nut Popcorn Confection. For Popcorn Confection. The Wilson Products Co., Inc. 42,399; July 11.
Century of Progress Pillow Outfit, Article V. S. 80—Design 2590. For Pillow Outfits. Collingbourne Mills Inc. 42,375; July 11.
Colonial. For Bread. C. O. Beck. 42,368; July 11.
Cream Mints. For Cream Mints. P. Paul, Inc. 42,391; July 11.
Eat Sunfreze Ice Cream for Vital Energy. For Ice Cream. Western Dairy Products Co. 42,398; July 11.
Facoma Island Belle Grape Juice. For Grape Juice. China America Corporation Ltd. 42,370; July 11.
Fischer's Old Home. For Vienna Bread. Fischer Baking Company. 42,376; July 11.
Fischer's Old Home. For Rye Bread. Fischer Baking Company. 42,377; July 11.
Floral Wreath Pillow Outfit Article, V. S. 80—Design 2587. For Pillow Outfits. Collingbourne Mills Inc. 42,373; July 11.
Flower basket Pillow Outfit Article, V. S. 80—Design 2585. For Pillow Outfits. Collingbourne Mills Inc. 42,371; July 11.
Fresh and sparkling as the dew in the dawn. For Fruit Cake. W. H. Brooks. 42,369; July 11.
Garden-Index. For Indexes. Garden Index Co., Inc. 42,378; July 11.
Golden-Tip. For Tea. Sinn Brothers. 42,394; July 11.
Kool. For Cream for Tired Burning Feet. W. G. Piper. 42,392; July 11.
Krug's Big-Pan Bread. For Bread. G. A. Krug Baking Company. 42,382; July 11.
Krug's Rye Bread. For Bread. G. A. Krug Baking Company. 42,383; July 11.
Krug's Sliced Bread. For Bread. G. A. Krug Baking Company. 42,384; July 11.
Krug's Toastmaster Bread. For Bread. G. A. Krug Baking Company. 42,385; July 11.
Krug's Whole Wheat Bread. For Bread. G. A. Krug Baking Company. 42,381; July 11.
Leston's "Creole Relish." For Relish. Leston Company. 42,386; July 11.
Lithoterps. For Lithographic Solvent. Lithographic Technical Foundation, Inc. 42,388; July 11.
Mrs. Bains Muffite. For Mixture Containing Flour and Other Ingredients for Muffins, Shortcake and the Like. Mrs. Bain. 42,367; July 11.
Nassour Balm. For Balm for Softening the Skin. Nassour Brothers Inc. Ltd. 42,390; July 11.
Nonparey. For Antiseptic Powder. E. Moskow. 42,389; July 11.
Polar Seal. For Anti-Freeze Preparation Consisting of Glycerine and Alcohol for Use in Automobile Radiators. J. Lipitz. 42,387; July 11.
Quill, The Perfect Ink for your pen. For Ink. Quill Ink Corporation. 42,393; July 11.
Rainbo. For Bread. P. D. Archer. 42,365; July 11.
Rainbo. For Cookies. P. D. Archer. 42,366; July 11.
School Teacher Coffee. For Coffee. G. A. King. 42,380; July 11.
The Standard Welded Wire Hood Seal. For Hood Seals for Bottles. Standard Cap and Seal Corporation. 42,395; July 11.
Trig Arrow Puzzle. For Puzzles. H. E. Strohecker. 42,396; July 11.
Upholsterers', Carpet and Linoleum Mechanics' International Union of N. A. For Upholstered Furniture, Mattresses, Box Springs, Curtains, Draperies and Shades. Upholsterers', Carpet and Linoleum Mechanics' International Union of North America. 42,397; July 11.
Weave Truth With Trust. For Fabrics. Institute of Carpet Manufacturers of America, Inc. 42,370; July 11.

LIST OF PRINTS

Armours Star Ham. For Ham. Armour and Company. 14,258; July 11.
Avoid Blow-Outs . . . With This Amazing New Tire Invention (Ad No. GBC–313) For Rubber Tires. The B. F. Goodrich Rubber Company. 14,265; July 11.
Banish Fear of Blow-Outs (Ad No. GP–4) For Rubber Tires. The B. F. Goodrich Rubber Company. 14,263; July 11.
Dixie Service Station Products. For Oil and Gas. Dixie Service Stations Incorporated. 14,259; July 11.
Happy Days to All. For Publication Entitled National Liquor Trades Review. D. F. Fitzgerald. 14,260; July 11.
Now You'll Be 3 Times Safer From Blow-Outs at High Speeds (Ad No. GP. 2) For Rubber Tires. The B. F. Goodrich Rubber Company. 14,262; July 11.
Tatoo Chewing Gum—Dogs—Dorgs—Dawgs. For Chewing Gum. Orbit Gum Company. 14,266; July 11.
This Week! Your Baker is Baking this Betty Crocker Milk Chocolate Cake. For Flour. General Mills, Inc. 14,261; July 11.
Trig Puzzle, The. For Novelty Puzzles. H. E. Strohecker. 14,267; July 11.
Why Risk Your Life When Blow-Out Protection Is Free? (Ad No. GP–5) For Rubber Tires. The B. F. Goodrich Rubber Company. 14,264; July 11.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 11TH DAY OF JULY, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbott, Edward J., assignor to Abbott Machine Company, Wilton, N. H. Textile mechanism. 1,917,221; July 11.
Abbott Laboratories. (See Adams, Rogers, assignor.)
Abbott Machine Company. (See Abbott, Edward J., assignor.)
Acme Steel Company. (See MacChesney, C. M., and Norton, assignors.)
Adam, William G., and P. Gray, Westminster, England. 1,917,682; July 11.
Adams, Chester E. (See Sullivan, F. W., jr., and Adams.)
Adams Company, The. (See Demkler, L. A., and Meyers, assignors.)
Adams, Roger, Urbana, assignor to Abbott Laboratories, North Chicago, Ill. Polyhydric alcohol ester of aliphatic carboxylic acids. 1,917,681; July 11.
Adams, Roger, Urbana, Ill., E. H. Johnson, Green Bay, and V. M. Weinmayr, Milwaukee, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Halogen derivatives of a-naphthoyl-o-benzoic acid. 1,917,285; July 11.
Adams, Roger, Urbana, Ill., E. H. Johnson, Green Bay, and V. M. Weinmayr, Milwaukee, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitro derivatives of a-naphthoyl-o-benzoic acid. 1,917,286; July 11.
Aerol Engine Corporation. (See Hehr, Frederick G., assignor.)
Agostoni, Giuseppe G., Milan, Italy. Internal grinding apparatus. 1,918,077; July 11.
Air Maze Corporation. (See Walter, George M., assignor.)
Ajax Electrothermic Corporation. (See Northrup, Edwin F., assignor.)
Aktiebolaget Nomy. (See Wallgren, A. G. F., and Jansoz, assignors.)
Aktiebolaget Svenska Kullagerfabriken. (See Kirner, Josef, assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Törnebohm, Hilding V., assignor.)
Alderson, Herbert J., Toronto, Ontario, Canada. Aircraft. 1,918,204; July 11.
Aldrich, Alonzo, and E. E. Berry, assignors to Beloit Iron Works, Beloit, Wis. Paper making machine. 1,917,287; July 11.
Aldrich, Alonzo, deceased, Beloit, Wis., L. J. A. Neese and E. H. Neese executors, and E. E. Berry; said Aldrich and said Berry assignors to Beloit Iron Works, Beloit, Wis. Shake mechanism for paper making machines. 1,917,288; July 11.
Alemite Corporation. (See Raisch, Charles F., assignor.)
Allan, Hugh L., Syriam, Burmah, British India, assignor to The Burmah Oil Company Limited, Glasgow, Scotland. Wax sweating plant. 1,918,009; July 11.
Allegheny Steel Company. (See Schulte, Louis, assignor.)
Allen-Bradley Company. (See Mattern, Raymond P., assignor.)
Almquist, Milton L., and A. C. Thompson, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Electric delay circuits. 1,917,418; July 11.
Altorfer, Alpheus W., Peoria, assignor to Altorfer Bros. Company, East Peoria, Ill. Washing machine. 1,917,628; July 11.
Altorfer Bros. Company. (See Altorfer, Alpheus W., assignor.)
American Bemberg Corporation. (See Hoelkeskamp, Franz, assignor.)
American Can Company. (See Gray, James A., assignor.)
American Can Company. (See Peters, John F., assignor.)
American Can Company. (See Young, John M., assignor.)
American Car and Foundry Company. (See Birt, Jesse F., assignor.)
American Car and Foundry Company. (See Clarke, Allen W., assignor.)
American Car and Foundry Company. (See Dendler, Ralph E., assignor.)
American Car and Foundry Company. (See Folmsbee, Clyde H., assignor.)
American Car and Foundry Company. (See Hartman, Edward M., assignor.)
American Car and Foundry Company. (See Lyons, Theodore E., assignor.)
American Car and Foundry Company. (See Rohling, John M., assignor.)
American Car and Foundry Company. (See Willoughby, Victor, assignor.)
American Car and Foundry Securities Corporation. (See Dietrichson, William F., assignor.)
American Engineering Company. (See Kuselewski, Albert R., assignor.)
American Glanzstoff Corporation. (See Elsner, Richard, assignor.)
American Manganese Steel Company. (See Clark, John O'F., assignor.)
American Sealcone Corporation. (See Jones, Ellis L., assignor.)
American Steel Foundries. (See Baselt, Walter H., assignor.)
American Telephone and Telegraph Company. (See Almquist, M. L., and Thompson, assignors.)
American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)
American Telephone & Telegraph Company. (See Martin, DeLoss K., assignor.)
Anderson, Carl H., assignor to The Burdick Corporation, Milton, Wis. Collapsible bath cabinet. 1,917,629; July 11.
Anderson, Joseph, L. V. and J. B., Lehi, Utah. Circuit closer. 1,917,481; July 11.
Anderson, Joseph B. (See Anderson, Joseph, L. V. and J. B.)
Anderson, Leo V. (See Anderson, Joseph, L. V. and J. B.)
Anderson, Oscar M. (See Juengst, F. W., and Anderson.)
Anderson, Oscar M., assignor to Landers, Frary & Clark, New Britain, Conn. Support for culinary appliances. Des. 90,276; July 11.
Anderson, Torval J., Chicago, Ill. Window frame comprising slidable sashes. 1,918,010; July 11.
Anderson, William T., Indianapolis, Ind. Electric plug. 1,917,683; July 11.
Andresen, John H., Glen Rock, N. J. Apparatus for treating textile fabrics. 1,917,419; July 11.
Andrew, Thomas E., and M. Langstreth, Rochdale, assignors to Dunlop Cotton Mills Limited, London, England. Machine for spinning, doubling, twisting and the like, yarns, fibers, and the like. 1,917,914; July 11.
Apel, Albert, assignor to Deere & Company, Moline, Ill. Windrowing machine. 1,917,352; July 11.
Apple, Edward M., et al. (See Apple, Vincent G.)
Apple, Edward M., et al., executors. (See Cotterman, Frederick W.)
Apple, Herbert F., et al. (See Apple, Vincent G.)
Apple, Herbert F., et al., executors. (See Cotterman, Frederick W.)
Apple, Vincent G., deceased, Dayton, Ohio; H. F. and E. M. Apple, and G. Darroch, executors. Armature coil. 1,917,482; July 11.
Apple, Vincent G., Dayton, Ohio, assignor to Bendix Brake Company, South Bend, Ind. Resistor element. 1,918,078; July 11.
Apple, Vincent G., et al. (See Cotterman, Frederick W., assignor.)
Arcier, Alex F., Dayton, and R. W. Gibson, assignors to The Waco Aircraft Company, Troy, Ohio. Aircraft. 1,918,079; July 11.
Ardco Manufacturing Company. (See Stern, Charles, assignor.)
Ardco Manufacturing Company. (See Stern, C., Davis, and Gillespie, assignors.)
Arimoto, Masazo, San Bernardino, Calif. Ice cream making. 1,917,483; July 11.
Armaturen- und Maschinenfabrik Akt. Ges., vorm, J. A. Hilpert. (See Meyer, Otto, assignor.)
Arndt, Franklin E., assignor to The Gallon Iron Works, & Manufacturing Company, Gallon, Ohio. Road grader and scarifier. 1,918,169; July 11.
Asphalt Process Corporation. (See Mickelson, Alfred O., assignor.)
Associated Electric Laboratories, Inc. (See Hudd, Alfred E., assignor.)
Associated Electric Laboratories, Inc. (See Ostline, John E., assignor.)
Associated Telephone and Telegraph Company. (See Saville, Willie, assignor.)
Atkinson, F. R., Spring Co. (See Mayhew, K. W., and Holloway, assignors.)
Atlantic Register Company. (See Potter, Charles W., assignor.)
Atwater, Christopher G., Tarrytown, assignor to The Barrett Company, New York, N. Y. Producing ammonium sulphate. 1,917,915; July 11.
August, Herman A., special administrator. (See Miadowicz, Frank.)
Aurora Metal Cabinet Co. (See Fohn, Adolph E., assignor.)
Autogiro Company of America. (See Larsen, Agnew E., assignor.)
Automotive Research Corporation. (See Thompson, Fred C., assignor.)
Avery Power Machinery Co. (See Scranton, Charles J., jr., assignors.)

Babcock & Wilcox Company, The. (See Lucke, Charles E., assignor.)
Babcock & Wilcox Company, The. (See Rinne, John, assignor.)
Bachman, Carl O., Franklin, assignor to The Mead Research Engineering Company, Dayton, Ohio. Apparatus for grinding wood. 1,917,420; July 11.
Bacon, Raymond F., Bronxville, and I. Bencowitz, New York, N. Y.; said Bencowitz assignor to said Bacon. Treatment of iron sulphide-bearing material. 1,917,223; July 11.
Bacon, Raymond F., Bronxville, and I. Bencowitz, New York, N. Y.; said Bencowitz assignor to said Bacon. Recovery of sulphur. 1,917,224; July 11.
Bacon, Raymond F., Bronxville, and I. Bencowitz, New York, N. Y.; said Bencowitz assignor to said Bacon. Recovery of sulphur. 1,917,226; July 11.
Bacon, Raymond F., Bronxville, and I. Bencowitz, New York, N. Y.; said Bencowitz assignor to said Bacon. Recovery of sulphur. 1,917,227; July 11.
Bacon, Raymond F., Bronxville, and I. Bencowitz, New York, N. Y.; said Bencowitz assignor to said Bacon. Treatment of iron sulphide-bearing material. 1,917,228; July 11.
Bacon, Raymond F., Bronxville, and I. Bencowitz, New York, N. Y.; said Bencowitz assignor to said Bacon. Recovery of sulphur. 1,917,234; July 11.
Bacon, Raymond F., Bronxville, and I. Bencowitz, New York, N. Y.; said Bencowitz assignor to said Bacon. Recovery of sulphur. 1,917,235; July 11.
Bacon, Raymond F., Bronxville, and I. Bencowitz, New York, N. Y.; said Bencowitz assignor to said Bacon. Recovery of sulphur. 1,917,685; July 11.
Bacon, Raymond F., Bronxville, and I. Bencowitz, New York, N. Y.; said Bencowitz assignor to said Bacon. Recovery of sulphur. 1,917,686; July 11.
Bacon, Raymond F., Bronxville, and R. Fanelli, New Rochelle, N. Y.; said Fanelli assignor to said Bacon. Recovery of sulphur. 1,917,225; July 11.
Bacon, Raymond F., Bronxville, and R. Fanelli, New Rochelle, N. Y.; said Fanelli assignor to said Bacon. Treatment of iron sulphide-bearing materials. 1,917,229; July 11.
Bacon, Raymond F., Bronxville, and R. Fanelli, New Rochelle, N. Y.; said Fanelli assignor to said Bacon. Recovery of sulphur. 1,917,230; July 11.
Bacon, Raymond F., Bronxville, and R. Fanelli, New Rochelle, N. Y.; said Fanelli assignor to said Bacon. Treatment of iron sulphide-bearing material. 1,917,231; July 11.
Bacon, Raymond F., Bronxville, and R. Fanelli, New Rochelle, N. Y.; said Fanelli assignor to said Bacon. Recovery of sulphur. 1,917,787; July 11.
Bacon, Raymond F., Bronxville, and R. Fanelli, New Rochelle, N. Y.; said Fanelli assignor to said Bacon. Recovery of sulphur. 1,917,788; July 11.
Bacon, Raymond F., Bronxville, and H. T. Hotchkiss, jr., New Rochelle, N. Y.; said Hotchkiss, assignor to said Bacon. Treatment of iron sulphide-bearing material. 1,917,222; July 11.
Bacon, Raymond F., Bronxville, and H. T. Hotchkiss, jr., New Rochelle, N. Y.; said Hotchkiss assignor to said Bacon. Recovery of sulphur. 1,917,232; July 11.
Bacon, Raymond F., Bronxville, and H. T. Hotchkiss, jr., New Rochelle, N. Y.; said Hotchkiss assignor to said Bacon. Treatment of iron sulphide-bearing material. 1,917,233; July 11.
Bacon, Raymond F., Bronxville, and H. T. Hotchkiss, jr., New Rochelle, N. Y.; said Hotchkiss assignor to said Bacon. Production of ferric oxide and the recovery of sulphur. 1,917,684; July 11.
Bacon, Raymond F., Bronxville, and H. T. Hotchkiss, jr., New Rochelle, N. Y.; said Hotchkiss assignor to said Bacon. Recovery of sulphur. 1,917,687; July 11.
Bacon, Raymond F., Bronxville, and H. T. Hotchkiss, jr., New Rochelle, N. Y.; said Hotchkiss assignor to said Bacon. Recovery of sulphur and iron oxide. 1,917,789; July 11.
Bailey, Claude B., Wyandotte, assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Gasket. 1,917,214; July 11.
Bailey, William H., Pueblo, assignor to The Colorado Fuel and Iron Company, Denver, Colo. Producing beveled blades. 1,917,353; July 11.
Bakelite Corporation. (See Hanson, Norman D., assignor.)
Bakelite Corporation. (See Schmidt, J. H., and Daniels, assignors.)
Baker, Benjamin P., Turtle Creek, Pa., and M. W. Brainard, Los Angeles, Calif., assignors to Westinghouse Electric and Manufacturing Company. Circuit interrupter. 1,918,232; July 11.
Baker Brothers, Inc. (See Tigges, Herbert L., assignor.)
Baker, Harold T. (See Olson, M. W., and Baker.)
Baker, Herbert K., Detroit, Mich. Apparatus for slitting metal sheets. 1,917,630; July 11.
Baker, John S., Evansville, Wis. Windmill construction. 1,917,631; July 11.
Baker, Samuel S. (See Trescott, John B., and Baker.)
Bales, James E., assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Shelving construction. 1,917,917; July 11.
Bales, James E., and C. T. Christensen, assignors to Lyon Metal Products, Incorporated, Aurora, Ill. Table leg construction. 1,917,916; July 11.
Ball, Albert P., and W. E. Hann, Detroit, Mich.; said Hann assignor to said Ball. Door dovetail. 1,918,170; July 11.
Ball, Charles F., and A. E. Miller, assignors to Chain Belt Company, Milwaukee, Wis. Rear closure for truck mixers. 1,918,205; July 11.
Balsiger, Harold E. (See Steiner, A. P., Balsiger, and Wine.)
Baltzley, Louis E. (See Goertz, F., and Baltzley.)
Bampfylde, James W., London, England. Making or remelting alloys of aluminium and iron. 1,918,011; July 11.
Banker, Oscar H., Chicago, Ill., assignor, by mesne assignments, to New Products Corporation. Clutch. 1,917,484; July 11.
Barber Greene Company. (See Barber, Harry H., assignor.)
Barber, Harry H., assignor to Barber Greene Company, Aurora, Ill. Safety pawl. 1,917,215; July 11.
Barbulesco, Constantin D. (See Edwards, P. S., and Barbulesco.)
Barbulesco, Constantin D., and P. S. Edwards, Dayton, Ohio. Capacity controlled amplifier. 1,917,237; July 11.
Barcalo Manufacturing Company. (See Vallone, Charles, assignor.)
Barker, Percy E., Towson, Md., assignor to The Cinderella Washing Machine Company, Cleveland, Ohio. Agitator for washing machines. 1,917,867; July 11.
Barkley, C. L., & Co. (See Barkley, Peyton H., assignor.)
Barkley, Peyton H., assignor to C. L. Barkley & Co., Chicago, Ill. Loose leaf fastener. 1,917,569; July 11.
Barnes Drill Company. (See Fairbairn, Walter M., assignor.)
Barnes Drill Company. (See Johnson, Albert M., assignor.)
Barr, James A., Mountpleasant, Tenn., assignor to International Agricultural Corporation, New York, N. Y. Process and apparatus for removing solids from liquids. 1,917,819; July 11.
Barrett Company, The. (See Atwater, Christopher G., assignor.)
Barrett Company, The. (See McCloskey, Gregory E., assignor.)
Barrett, Harold G., Wilmette, assignor to Pyratone Products Corporation, Chicago, Ill. Heating and stretching tubes over shafts. 1,918,171; July 11.
Barron, Erie E. and S. R., Lamesa, Tex. Seeder attachment for tractors. 1,918,172; July 11.
Barron, Spencer R. (See Barron, Erie E. and S. R.)
Bartels, Reinhard B., Marblehead, and O. H. L. Thelen, Lynn, Mass. Shoe shank stiffener. 1,917,485; July 11.
Barton, Joseph W., assignor to O-Cedar Corp'n, Chicago, Ill. Mop handle connection and making the same. 1,917,570; July 11.
Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Brake rigging. 1,917,354; July 11.
Baum, Kenneth M., assignor to United Verde Copper Company, Clarkdale, Ariz. Recovery of sulphur. 1,917,688; July 11.
Baum, Kenneth M., assignor to United Verde Copper Company, Clarkdale, Ariz. Recovery of sulphur. 1,917,689; July 11.
Baumann, Fritz, Leverkusen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. New anthraquinone compounds. 1,917,421; July 11.
Baumann, Otto H., McKittrick, Mo. Fan control governor. 1,917,790; July 11.
Beardsley, Alling P., Plainfield, assignor to The Calco Chemical Company, Inc., Bound Brook, N. J. Apparatus for use in the catalytic oxidation of gases. 1,918,080; July 11.
Beck, Ernest T., Stuttgart, Germany, assignor to International Silver Company, Meriden, Conn. Spoon or other article of flatware. Des. 90,277; July 11.
Beck, Leo L., Westfield, N. J., assignor, by mesne assignments, to General Tube Lights Corporation, New York, N. Y. Luminous tube. 1,918,012; July 11.
Beck, William, New York, N. Y. Spring. 1,917,486; July 11.
Becker, Logan A., Lakewood, Ohio. Loading apparatus. 1,917,571; July 11.
Bedford, Burnice D., Schenectady, N. Y., assignor to General Electric Company. Phase shifting circuits. 1,918,173; July 11.
Beeh, Louis, Longmeadow, assignor to United American Bosch Corporation, Springfield, Mass. Fuel supply pump. 1,917,690; July 11.
Bedell, Carl E., Sherrard, assignor to Wheeling Steel Corporation, Wheeling, W. Va. System of apparatus for galvanizing metal pipes. 1,917,918; July 11.
Begtrup, Edward F., Jersey City, N. J. Hood for welding molds. 1,917,868; July 11.
Bell Telephone Laboratories, Incorporated. (See Beschorer, Edwin A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Burton, Everett T., assignor.)
Bell Telephone Laboratories, Incorporated. (See Draper, John B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Germanton, Charles E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Gilbert, John J., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hague, Alfred E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hearn, Richard B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Stacy, Leland J., assignor.)
Bella and Company. (See Hayes, Charles L., assignor.)
Bellanca, Giuseppe M., New Castle, Del. Aircraft engine. 1,917,791; July 11.
Beloit Iron Works. (See Aldrich, A., and Berry, assignors.)
Belt, Franz, Vienna Austria. Capstan. 1,917,691; July 11.
Bencowitz, Isaac. (See Bacon, R. F., and Bencowitz.)
Bencowitz, Isaac, New York, N. Y., assignor to Texas Gulf Sulphur Company. Sulphur burner. 1,917,692; July 11.
Bencowitz, Isaac, New York, N. Y., assignor to Texas Gulf Sulphur Company. Production of sulphur dioxide. 1,917,693; July 11.
Bendix Aviation Corporation. (See O'Donnell, Claude, assignor.)
Bendix Aviation Corporation. (See Starr, Charles E., assignor.)
Bendix Brake Company. (See Apple, Vincent G., assignor.)
Bendix Brake Company. (See Dodge, Adiel Y., assignor.)
Bendix Brake Company. (See Sanford, Roy S., assignor.)
Bendix Brake Company. (See Thomas, George J., assignor.)
Bendix Brake Company. (See Watts, William S., assignor.)
Bendix-Cowdrey Brake Tester, Inc. (See Dodge, Adiel Y., assignor.)
Bendix-Cowdrey Brake Tester, Inc. (See Fullerton, J. B., and Rossetter, assignors.)
Bennett, Morris H., and A. D. Cowperthwait, assignors to Scovill Manufacturing Company, Waterbury, Conn. Variable electric condenser. 1,917,487; July 11.
Benson, Bernhart A., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Self-starting induction motor. 1,917,289; July 11.
Berg, Richard O., assignor to Michigan Steel Tube Products Company, Detroit, Mich. Screw jack. 1,917,919; July 11.
Berggren, Frans L., Spokane, Wash. Rotary gas motor. 1,918,174; July 11.
Bergner, Nore E., Stockholm, Sweden, assignor to The De Laval Separator Company, New York, N. Y. Arrangement in connection with centrifugal bowls. 1,917,422; July 11.
Bermann, Louis, assignor to Electrical Engineers Equipment Co., Melrose Park, Ill. Potentiometer resistance. 1,918,013; July 11.
Berry, Earl E. (See Aldrich, A., and Berry.)
Bersted, Martin C., San Diego, Calif. Sprinkling nozzle. 1,917,216; July 11.
Bescherer, Edwin A., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Teletypewriter cabinet. Des. 90,278; July 11.
Bethenod, Joseph, Paris, France. Electric servo-motor for automobiles or the like. 1,917,488; July 11.
Beverage, Harold H., and H. O. Peterson, Riverhead, N. Y., assignors to Radio Corporation of America. Fading elimination. 1,917,290; July 11.
Beverage, Harold H., and H. O. Peterson, Riverhead, N. Y., assignors to Radio Corporation of America. Eliminating fading. 1,917,291; July 11.
Bianchi, Giuseppe, Firenze, Italy. Safety device for one-man vehicles. 1,918,014; July 11.
Bienenstein, Andreas, assignor to Conklin Pen Company, Toledo, Ohio. Fountain pen desk set. 1,917,423; July 11.
Binckley, George S., Los Angeles, Calif. Capillary pen. 1,917,572; July 11.
Bird, John C., Elizabeth, N. J., assignor to Standard Oil Development Company. Resinous material from petroleum sludge. 1,917,869; July 11.
Birt, Jesse F., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Vestibule car door. 1,917,871; July 11.
Birtman Electric Company. (See Rankin, William A., assignor.)
Bizzoni, Humber, New York, and P. Lent, Brooklyn, N. Y. Removing scale incrustations, oil, and the like in water receptacles. 1,917,489; July 11.
Black & Decker Manufacturing Company, The. (See Decker, Alonzo G., assignor.)
Black, Paul T., Dormont, Pa. Grating structure. 1,917,573; July 11.
Blaisdell, Sidney B., Wyncote, Pa., assignor to Fidelity Machine Company, Wilmington, Del. Beat-up mechanism for braiding machines. 1,918,175; July 11.
Blanchard, Robert L., assignor to Van Kannel Revolving Door Company, New York, N. Y. Speed regulator for revolving doors. 1,918,176; July 11.
Blaw-Knox Company. (See Marshall, Ira W., assignor.)
Blazek, John Y., assignor to Lempco Products Inc., Cleveland, Ohio. Lathe attachment. 1,917,748; July 11.
Bley, Fred, Chicago, Ill. Pessary. 1,917,870; July 11.
Bliss, H. R., Company. (See Bliss, Herbert R., assignor.)
Bliss, Herbert R., assignor to H. R. Bliss Company, Inc., Niagara Falls, N. Y. Container and reenforcement therefor. 1,917,920; July 11.
Blochowiak, Bruno L., Milwaukee, Wis. Milk pasteurizing apparatus. 1,918,081; July 11.
Bloomstrand, Roland, Chicago, Ill. Tennis racket and other play implement. 1,917,286; July 11.
Bockmühl, Max, G. Ehrhart, and L. Stein, Frankfort-on-the-Main, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Preparing compounds of the 1-phenyl-2-amino-alcohols-1 series hydroxylated in the phenyl radial. 1,917,424; July 11.
Bookman, Sidney M., New York, N. Y. Scraping tool handle. 1,917,490; July 11.
Booth, Harry T., Freeport, N. Y. Flying machine. 1,917,574; July 11.
Boquist, Edward O., and W. E. F. Straubel, West New York, N. J. Stereooculator. 1,918,177; July 11.
Borax Consolidated Limited. (See Kelly, Andrew, assignor.)
Borden, Harry, Brooklyn, N. Y. Wrinkleproof rug edge reenforcing binding. 1,917,425; July 11.
Borlas, Paul, assignor to Societe Francaise Radio Electrique, Paris, France. Multistage amplifier. 1,917,426; July 11.
Boundy, Ray H. (See Grebe, J. J., Boundy, and Chamberlain.)
Bousquet, Euclid W. (See Salzberg, P. L., and Bousquet.)
Bowen, Oliver G., assignor to Arthur W. Lewis, Pasadena, Calif. Method and apparatus for separating fluids. 1,917,792; July 11.
Bowerman, Emma, New York, N. Y Ash tray. 1,917,491; July 11.
Bowers, Dana W., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Treating sulphur-bearing ores. 1,918,178; July 11.
Boyd, Fisher L., Haverford, assignor to National Foam System, Inc., Philadelphia, Pa. Fire extinguishing apparatus. 1,917,694; July 11.
Boysen, Jorgen, New York, N. Y. Means for utilizing water power. 1,917,793; July 11.
Brackett, Tracy F., Highland Park, assignor to The Timken-Detroit Axle Company, Detroit, Mich. Brake member. 1,917,820; July 11.
Brainard, Maurice W. (See Baker, B. P., and Brainard.)
Brand, Samuel, assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,917,355; July 11.
Brand, Samuel, assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,917,356; July 11.
Branstrator, Clement G., Fort Wayne, Ind. Pump. 1,917,821; July 11.
Brendlin, Herman J., assignor to The Hayward Company, New York, N. Y. Excavating shovel. 1,917,492; July 11.
Bretz, George W., Galveston, Tex. Line guide. 1,917,493; July 11.
Bridgeport Metal Goods Manufacturing Company, The. (See Fullmer, Giles C., assignor.)
Brinvilliers, Arthur H., Chelsea, London, England. Roof and cover, particularly adapted for motor cars and the like. 1,917,695; July 11.
Britton, Edgar C., assignor to The Dow Chemical Company, Midland, Mich. Sodium ortho-phenyl phenate and preparing same. 1,917,749; July 11.
Britton, Edgar C., and R. P. Perkins, assignors to The Dow Chemical Company, Midland, Mich. Manufacture of cyclohexylphenols. 1,917,823; July 11.
Britton, Edgar C., and W. R. Reed, assignors to The Dow Chemical Company, Midland, Mich. Separating chloronaphthalenes. 1,917,822; July 11.
Brooks, Lee L., Midland, Tex. Tank construction. 1,917,494; July 11.
Broome, Ernest L., Tarrytown, N. Y. Hydraulic gate. 1,918,015; July 11.
Brown Company. (See Richter, George A., assignor.)
Brown, Hazel P., assignor of one-fourth to Jan. P. Clary, Hartford, Conn. Finger tip and nail shaper. 1,917,794; July 11.
Brown, W. G., et al. (See Lott, Charles I., assignor.)
Browne, Cecil O., Ealing Common, London, England, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Discharge tube with optical slits. 1,917,495; July 11.
Brudney, Harry, New York, N. Y. Protective device for packages of cigarettes. 1,917,427; July 11.
Brunner, Ernst. (See Straub, F., and Brunner.)
Bryant, Calvin H. (See Johnson, C. B., and Bryant.)
Bryson, Frank, public administrator. (See von Astholz, M., and Concha.)
Buchanan, Frank, assignor to Crouse-Hinds Company, Syracuse, N. Y. Dash illuminating headlight. 1,917,292; July 11.
Buckler, Charles H., Camden, N. J. Game playing club. 1,918,179; July 11.
Buckner, William A., Fresno, Calif. Sprinkler. 1,917,632; July 11.
Budke, Carl, Mayfield, Ky. Continuous pressure filter. 1,917,696; July 11.
Budlong, Robert Davol, assignor of one-half to James H. Rook, Chicago, Ill. Combination bathroom unit. Des. 90,279; July 11.

Burdick Corporation, The. (See Anderson, Carl H., assignor.)
Burgess, C. F., Laboratories, Inc. (See Sullivan, Jerome J., assignor.)
Burk, Robert E., Cleveland, and E. B. McConnell, Shaker Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Apparatus for altering the boiling points of hydrocarbons. 1,917,357; July 11.
Burmah Oil Company Limited, The. (See Allan, Hugh L., assignor.)
Burnelli, Vincent J., New York, N. Y., assignor to The Uppercu-Burnelli Corporation. Aircraft. 1,917,428; July 11.
Burns, William A., Grand Rapids, Mich. Vehicle body. 1,917,824; July 11.
Burt, Robert C., Pasadena, Calif. Nonvibratory support of record table. 1,917,633; July 11.
Burton, Everett T., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency changer system. 1,917,921; July 11.
Buschbeck, Werner, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany. Tube transmitter circuit arrangement. 1,917,697; July 11.
Butler, Clyde G., Cincinnati, Ohio, assignor, by mesne assignments, to Russell J. Gray, Minneapolis, Minn. Lubricating system. 1,917,238; July 11.
Byrne, William J., Indianapolis, Ind. Revolvable hull washing machine. 1,917,358; July 11.
Byron Jackson Co. (See Smith, Nelson K., assignor.)
Callie Motor Company. (See Smith, Theodore L., assignor.)
Calco Chemical Company, The. (See Beardsley, Alling P., assignor.)
Callow, Olaf C. (See Whitcomb, A. J., Rice, and Callow.)
Cameron Can Machinery Co. (See Cameron, William, assignor.)
Cameron, James A., assignor to Cameron Machine Company, Brooklyn, N. Y. Ejecting and delivery device for winding machines. 1,918,016; July 11.
Cameron, John F., Seattle, Wash. Wrench. 1,917,293; July 11.
Cameron Machine Company. (See Cameron, James A., assignor.)
Cameron, William, assignor to Cameron Can Machinery Co., Chicago, Ill. Can making machine. 1,917,359; July 11.
Cameron, William J. (See Grothe, Arthur A., assignor.)
Campbell, Donald J., assignor to Campbell, Wyant & Cannon Foundry Company, Muskegon, Mich. Centrifugal casting machine. 1,917,872; July 11.
Campbell, Edmund D., University City, and W. F. Dietrichson, Webster Groves, Mo. Refrigerator. 1,917,873; July 11.
Campbell, Lorn, jr., Lakewood, Ohio. Process and apparatus for removing protuberances from metal. 1,917,750; July 11.
Campbell, Wyant & Cannon Foundry Company. (See Campbell, Donald J., assignor.)
Campbell, Wyant & Cannon Foundry Company. (See Goldberg, Mark J., assignor.)
Capehart Corporation, The. (See Small, Thomas W., assignor.)
Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Film printing. 1,917,360; July 11.
Cardwell Westinghouse Company. (See Wildin, George W., assignor.)
Carey, Philip, Manufacturing Company, The. (See Fischer, Albert C., assignor.)
Carlson, Bert G., Elmhurst, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Automatic pilot for dirigible craft. 1,918,082; July 11.
Carnie-Goudie Manufacturing Co., The. (See Goudie, Charles R., assignor.)
Carpenter, Martin R., Chicago, Ill. Ice rink structure. 1,917,634; July 11.
Carr, John O., assignor to Teletype Corporation, Chicago, Ill. Remote control system. 1,917,294; July 11.
Carr, Moses F., Lexington, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Separable snap fastener installation. 1,917,825; July 11.
Carson, William W., jr., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Pressure controlled valve. 1,917,698; July 11.
Carter, Philip S., Port Jefferson, N. Y., assignor to Radio Corporation of America. Rotatable antenna system. 1,918,180; July 11.
Cartier, Societe Anonyme. (See Lenfant, Louis, assignor.)
Casablancas, Fernando, Sabadell, Spain. Drawing mechanism for textile rovings. 1,917,699; July 11.
Case, Ethel C., Brooklyn, and H. C. Henderson, East Moriches, N. Y. Protective cover for bedpans and similar articles. 1,918,083; July 11.
Cataline, Benton, Flint, Mich., assignor, by mesne assignments, to Kelsey-Hayes Wheel Corporation. Wheel balancing. 1,917,575; July 11.
Celanese Corporation of America. (See Miles, George W., assignor.)
Central Scientific Company. (See Klopsteg, Paul E., assignor.)
Chadwick, Lee S., Shaker Heights Village, M. Resek, Cleveland Heights, and W. G. Midnight, assignors to Perfection Stove Company, Cleveland, Ohio. Gas burning appliance for absorption refrigerators. 1,917,751; July 11.
Chain Belt Company. (See Ball, C. F., and Miller, assignors.)
Chain Belt Company. (See Viall, George K., assignor.)
Chamberlain, Leonard C. (See Grebe, J. J., Boundy, and Chamberlain.)
Champney, Ralph P., Dearborn, assignor to Mitchell & Smith, Incorporated, Detroit, Mich. Producing cork board. 1,917,361; July 11.
Chase, Emery H., Addison, N. Y. Violin. 1,918,084; July 11.
Chemische Fabrik Pott & Company, Kommandit Gesellschaft. (See Pospiech, Friedrich, assignor.)
Chesnutt, Edwin H., deceased, Houston, Tex.; Mrs. P. Chesnutt, administratrix, assignor of forty-nine per cent to G. B. Chesnutt, R. E. Chesnutt, and J. A. Chesnutt, Harris County, Tex. Automatic signal device. 1,918,231; July 11.
Chesnutt, G. B., et al. (See Chesnutt, Edwin H., assignor.)
Chesnutt, J. A., et al. (See Chesnutt, Edwin H., assignor.)
Chesnutt, Pearl, adminixtratrix. (See Chesnutt, Edwin H.)
Chesnutt, R. E., et al. (See Chesnutt, Edwin H., assignor.)
Chester, George H., Richmond Heights, Mo. Template. 1,917,239; July 11.
Chicago Electric Manufacturing Company. (See Benson, Bernhart A., assignor.)
Chicago Electric Manufacturing Company. (See Preston, Edward S., assignor.)
Chicago Mill and Lumber Company. (See Watkins, James R., assignor.)
Childers, Earl C., assignor to John K. Thompson, Kansas City, Mo. Shore. 1,917,826; July 11.
Christ, Henry K., Allentown, Pa. Combined floor jack and clamp. 1,918,017; July 11.
Christensen, Carl T. (See Bales, James E., and Christensen.)
Christensen, Niels A., Cleveland, Ohio. Compressor drive apparatus. 1,917,429; July 11.
Chrysler Corporation. (See Hadley, Newton F., assignor.)
Chrysler Corporation. (See Mulhern, William A., assignor.)
Chrysler Corporation. (See Pfeiffer, Karl, assignor.)
Chrysler Corporation. (See White, Jay E., assignor.)
Chrysler Corporation. (See Woolson, Harry T., assignor.)
Church, Louis K., deceased, Seattle, Wash.; R. H. Church, executrix. Striker plate. 1,917,240; July 11.
Church, Roberta H., executrix. (See Church, Louis K.)
Cincerlia Washing Machine Company, The. (See Barker, Percy E., assignor.)
Claff, Clarence L., Randolph, Mass. Paper box and making the same. 1,917,496; July 11.
Clark, Curtis L., Eddy, Tex. Game. 1,917,700; July 11.
Clark, Frank W., assignor to Sanford Mills, Sanford, Maine. Carpet joint and uniting strip therefor. 1,917,430; July 11.
Clark, John O., St. Louis, Mo., assignor, by mesne assignments, to American Manganese Steel Company. Excavating tooth base with laterally interpocked points. 1,917,431; July 11.
Clark, Ralph O., Memphis, Tenn. Photograph mounting. 1,917,922; July 11.
Clark, W. G., et al., executors. (See Weston, Edward B., assignor.)
Clark, Walter J., assignor to Coe Laboratories Inc., Chicago, Ill. Investment vibrator. 1,918,018; July 11.
Clarke, Allen W., Berwick, Pa., assignor to American Car Foundry Company, New York, N. Y. Ball frame for shaker chutes. 1,917,923; July 11.
Clary, Jan P. (See Brown, Hazel P., assignor.)
Clem, Benjamin H., assignor of forty-nine per cent to J. A. Flaig & Son, New Madison, Ohio. Oscillatory incubator. 1,917,576; July 11.
Cleveland Tractor Company, The. (See Heaslet, James G., assignor.)
Clingestein, Heinrich, Cologne, and K. Dobmaier, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Water-insoluble monoazo dyestuffs. 1,917,432; July 11.
Cloos, Wilmot D., South Orange, assignor, by mesne assignments, to Edison Cement Corporation, West Orange, N. J. Apparatus for delivery pulverized material. 1,917,827; July 11.
Coberly, Clarence J., Los Angeles, assignor to Kobe, Inc., Huntington Park, Calif. Drawing temper in cutting slots. 1,917,497; July 11.
Cochrane Corporation. (See Dresher, Austin C., assignor.)
Cocks, Edgar, Los Angeles, Calif. Concealed bed. 1,918,085; July 11.
Coe Laborstories Inc. (See Clark, Walter J., assignor.)
Coen, Claude C., deceased, Culver, Oreg.; Maggie L. Coen, administratrix. Curtain fixture. 1,917,828; July 11.
Coen, Maggie L., administratrix. (See Coen, Claude C., assignor.)

Cogsdill Manufacturing Company. (See Cogsdill, Stuart A., assignor.)
Cogsdill, Stuart A., assignor to Cogsdill Manufacturing Company, Detroit, Mich. Processing tool. 1,917,925; July 11.
Cohn & Rosenberger, Inc. (See Placco, Oscar, assignor.)
Colbert, Clarence L., Elizabeth, N. J., assignor to Fiske & Company Inc., Boston, Mass. Ceramic ware treating method and apparatus. 1,917,924; July 11.
Cole, Clifford E., Birmingham, Ala., assignor to Nineteen Hundred Corporation, Binghamton, N. Y. Dishwashing attachment. 1,917,829; July 11.
Coleman, James D., jr. (See Malm, C. J., and Coleman.)
Collins, Berry, Birmingham, Ala., assignor to Sun Bath Company. Collapsible sun bath apparatus. 1,917,498; July 11.
Colorado Fuel and Iron Company. (See Bailey, William H., assignor.)
Columbia Mills, Inc., The. (See Zingg, William W., assignor.)
Columbia Oil and Gasoline Corporation. (See Parks, Ralph N., assignor.)
Columbian Enameling & Stamping Co. (See Nelson, Andrew W., assignor.)
Columbus Auto Brass Company. (See Donley, Harold B., assignor.)
Commercial Solvents Corporation. (See Martin, J., and Krchma, assignors.)
Communication Patents, Inc. (See Nicolson, Alexander M., assignor.)
Comstock & Wescott, Inc. (See Mancib, Alvin S., assignor.)
Concha, Thomas. (See von Asthols, M., and Concha.)
Conklin Pen Company. (See Bienenstein, Andreas, assignor.)
Connell, Edwin L., assignor to Van Dorn Electric Tool Company, Towson, Md. Collet. 1,917,752; July 11.
Conrad, William T., Lawndale, Calif. Automobile tire valve. 1,917,499; July 11.
Consolidated Safety Pin Company. (See Hagel, Albert, assignor.)
Continental Can Company. (See Kronquest, A. L., and Searle, assignors.)
Continental Gin Company. (See Deems, Frank E., assignor.)
Cook, Ernest P., Berlin, N. H. Retinometer. 1,917,500; July 11.
Corning Glass Works. (See Martin, Harold K., assignor.)
Cornwell, Lionel B. (See Woolf, W. L., and Cornwell.)
Cotterman, Frederick W., assignor of one-half to V. G. Apple, deceased, Dayton, Ohio.; H. F. and E. M. Apple, and Gourley Darroch, executors. Automatic freewheeling transmission mechanism. 1,917,501; July 11.
Cowperthwait, Arthur D. (See Bennett, M. H., and Cowperthwait.)
Crabtree, George W., Cleveland Heights, Ohio. Cover for leaf springs. 1,917,753; July 11.
Cram, Hervey G., assignor to Maine Seaboard Paper Company, Bucksport, Maine. Digestion of fibrous material. 1,918,181; July 11.
Crane Co. (See Olson, Charles A., assignor.)
Crawford, Craven H., Scotia, N. Y., and S. C. Hoare, Manchester, Mass., assignors to General Electric Company. Electrical instrument. 1,918,019; July 11.
Crawford, Frederick C., and G. H. Hufferd, Detroit, Mich., assignor to Thompson Products, Incorporated, Cleveland, Ohio. Making tie-rod ends. 1,917,502; July 11.
Cressler, Edward P., Newton, Kans. Angle marking means. 1,917,433; July 11.
Crites, Wilbur J., and D. R. Knowlton, assignors to Phillips Petroleum Company, Bartlesville, Okla. Well equipment. 1,917,701; July 11.
Crosley Radio Corporation, The. (See Money, Roland H., assignor.)
Crouse-Hinds Company. (See Buchanan, Frank, assignor.)
Crum, Bayard M. (See Grobstein, J. J., and Crum.)
Crump, Sherman, Haynesville, La. Marine propeller. 1,917,503; July 11.
Curry, Thomas F., Los Angeles, Calif. Liner for garbage receptacles. 1,917,217; July 11.
Curtis, Frank W., Wauwatosa, assignor to Kearney & Trecker Corporation, West Allis, Wis. Cutter grinder. 1,917,504; July 11.
Dade, Reimar, assignor to Lübecker Maschinenbau Gesellschaft, Lübeck, Germany. Barge. 1,917,434; July 11.
Dain Manufacturing Company of Iowa. (See Hurley, James E., assignor.)
Dain Manufacturing Company of Iowa. (See Moschel, Herman, assignor.)
Da-Lite Screen Co. (See Heck, John T., assignor.)
Daniels, C. R., Inc. (See Herdter, George A., assignor.)
Daniels, Rupert S. (See Schmidt, J. H., and Daniels.)
Daniels, Samuel, Hardwick, Vt. Furnace. 1,917,702; July 11.
Darco Sales Corporation. (See Herr, Edward H., assignor.)
Darroch, Gourley, et al. (See Apple, Vincent G.)
Darroch, Gourley, et al., executors. (See Cotterman, Frederick W.)
Dath, Charles E., assignor to W. H. Miner, Inc., Chicago, Ill. Draft rigging. 1,917,874; July 11.
Daumann, Karl W., assignor to the Firm C. H. F. Müller Aktiengesellschaft, Hamburg, Germany. Thermionic tube. 1,917,703; July 11.
Davidson, Harold R., Akron, Ohio. Cigarette dispenser and igniter. 1,917,952; July 11.
Davis, Delancey W. (See Stern, C., Davis, and Gillespie.)
Davis, Ernest, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Air flow with automatic preasure regulation. 1,917,862; July 11.
Davis, Garland H. B., Baton Rouge, La., assignor to Standard Oil Development Company. Lubricating oil and making the same. 1,917,875; July 11.
Davis, John C., Bowling Green, Ky. Absorbent container. 1,917,953; July 11.
De Cew, Judson A., Mount Vernon, assignor to Process Engineers, Inc., New York, N. Y. Hydrating cellulose fibers. 1,917,505; July 11.
Decker, Alonzo G., Baltimore, assignor to The Black & Decker Manufacturing Company, Towson, Md. Spring gib. 1,917,926; July 11.
Deems, Frank E., Birmingham, Ala., assignor to Continental Gin Company. Rock trap. 1,917,954; July 11.
Deere & Company. (See Apel, Albert, assignor.)
Deere & Company. (See Dieterich, Arthur B., assignor.)
Degener, Gustave O., San Francisco, Calif., assignor to Royal Typewriter Company, Inc., New York, N. Y. Manifolding device. 1,917,635; July 11.
Deisch, Noel, Washington, D. C., assignor of one-half to T. E. Stone, jr., New York, N. Y. Adjustable cam mechanism. 1,917,435; July 11.
DeLaval Separator Company, The. (See Bergner, Nore E., assignor.)
Deline, Irving A., Denver, Colo. Carton for baby chicks. 1,917,506; July 11.
Demkler, Lester A., and D. L. Meyers, assignors to The Adams Company, Dubuque, Iowa. Change speed gear box. 1,917,507; July 11.
Dendler, Ralph E., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Draft and buffing mechanism for mine cars. 1,917,876; July 11.
Denslow, Albert C., New York, assignor to Staten Island Shipbuilding Co., Staten Island, N. Y. Beverage cooling apparatus. 1,917,927; July 11.
De Ong, Elmer R., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Insecticide. 1,917,754; July 11.
Detroit Body Die Company. (See Purdy, Emmett G., assignor.)
Dettelbach, Samuel E., et al. (See Jaworowski, Joseph F., assignor.)
Devereaux, William C., Detroit, Mich. Doorlatch mechanism. 1,917,436; July 11.
Devereaux, William C., Detroit, Mich. Doorlatch construction. 1,917,437; July 11.
Devereaux, William C., Detroit, Mich. Doorlatch mechanism. 1,917,438; July 11.
Dewey and Almy Chemical Company. (See Dewey, Bradley, assignor.)
Dewey, Bradley, assignor to Dewey and Almy Chemical Company, Cambridge, Mass. Making rubber-fiber articles. 1,917,755; July 11.
De Wind, Norman, assignor to The Parsons Company, Newton, Iowa. Earth discharging mechanism for excavators. 1,917,508; July 11.
Dexter, MacDougald, Columbus, Ga., assignor to Dexter Ventilator Company. Continuous ridge ventilator. 1,917,218; July 11.
Dexter Ventilator Company. (See Dexter, MacDougald, assignor.)
De Ybarrondo, Vincent C., assignor to Patco, Inc., Los Angeles, Calif. Apparatus for magnetically recording motion pictures. 1,917,509; July 11.
Dibble, Clyde C., Indianapolis, Ind. Journal box. 1,917,510; July 11.
Dieckmann, Edna W., Orange, N. J. Electric plug aperture indicator. 1,917,638; July 11.
Diefenderfer, Wilbur P. (See Schantz, G. M., and Diefenderfer.)
Dierks, Louis E., Oak Park, assignor to Sauerman Bros., Inc., Chicago, Ill. Excavator apparatus. 1,917,955; July 11.
Dieterich, Arthur B., East Moline, assignor to Deere & Company, Moline, Ill. Corn sheller. 1,917,636; July 11.
Dietrichson, William F. (See Campbell, Edmund D., and Dietrichson.)
Dietrichson, William F., Webster Groves, Mo., assignor to American Car and Foundry Securities Corporation, Wilmington, Del. Railway car. 1,917,877; July 11.
Dillon, Paul W., assignor to Northwestern Barbwire Co., Sterling, Ill. Wire drawing machine. 1,917,219; July 11.
Dimroth, Hermann. (See Kunz, M. A., Stroh, and Dimroth.)
Dinzl, Richard W., Margate City, N. J., assignor to Southwark Foundry & Machine Company, Philadelphia, Pa. Press mechanism. 1,917,241; July 11.
Djordjevitch, Jesdimir. (See von Becker, R., and Djordjevitch.)
Doble, William A., jr., Berkeley, Calif. Fuel mixer. 1,917,577; July 11.
Dobmaier, Karl. (See Clingestein, H., and Dobmaier.)

Dodge, Adiel Y., assignor to Bendix Brake Company, South Bend, Ind. Brake operating mechanism. 1,917,928; July 11.
Dodge, Adiel Y., Chicago, Ill., assignor to Bendix-Cowdrey Brake Tester, Inc., Fitchburg, Mass. Brake shoe burnisher. 1,918,020; July 11.
Doherty-Brehm Company. (See Doherty, George D., assignor.)
Doherty, George D., Evanston, assignor to Doherty-Brehm Company, Chicago, Ill. Humidifying apparatus. 1,918,086; July 11.
Doherty, Henry L., assignor to Doherty Research Company, New York, N. Y. Cracking hydrocarbon oils. 1,917,705; July 11.
Doherty Research Company. (See Doherty, Henry L., assignor.)
Donley, Harold B., assignor to Columbus Auto Brass Company, Columbus, Ohio. Reflecting device. 1,918,087; July 11.
Dotterweich, Andrew J., Pittsburgh, Pa. Water softening apparatus. 1,918,225; July 11.
Dow Chemical Company, The. (See Britton, Edgar C., assignor.)
Dow Chemical Company. (See Britton, E. C., and Perkins, assignors.)
Dow Chemical Company, The. (See Britton, E. C., and Reed, assignors.)
Dow Chemical Company. (See Gann, John A., assignor.)
Dow Chemical Company, The. (See Grebe, J. J., Boundy, and Chamberlain, assignors.)
Dow Chemical Company, The. (See Grether, Ernest F., assignor.)
Dow Chemical Company, The. (See Griswold, Thomas, jr., assignor.)
Doxford, William, & Sons Limited. (See Keller, Karl O., assignor.)
Doyle, Edgar D., assignor to Leeds & Northrup Company, Philadelphia, Pa. Apparatus for controlling load distribution. 1,918,021; July 11.
Draper, John B., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,917,879; July 11.
Draper-Maynard Company, The. (See Maynard, John E., assignor.)
Dray, Clarence H., et al. (See Wert, Charles M., assignor.)
Dresher, Austin C., assignor to Cochrane Corporation, Philadelphia, Pa. System and apparatus for treating liquid. 1,917,704; July 11.
Dresner, S., & Son, Inc. (See Plotkin, Oscar H., assignor.)
Drey, Fraim, Brooklyn, N. Y. Supporting pad. 1,918,022; July 11.
Dreyer, Harry W., Brooklyn, N. Y., assignor to Radio Corporation of America. Apparatus for speed control. 1,917,295; July 11.
Driggs, Lorenzo J., Altoona, Pa. Mine ventilating apparatus. 1,917,439; July 11.
Duffy, James F., assignor to Manufacturing Company, Holland, Mich. Molding a motor mounting pad. 1,917,929; July 11.
Duffy Manufacturing Company. (See Duffy, James F., assignor.)
Dunlop Cotton Mills Limited. (See Andrew, T. E., and Langstreth, assignors.)
Dunlop Rubber Company Limited. (See Goodyear, E. F., Wright, and Trevaskis, assignors.)
Dunne, John P., Hollis, N. Y. Dispensing package. 1,918,088; July 11.
Dunning, Orville M., Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Apparatus for recording sounds. 1,917,830; July 11.
Du Pont, E. I., de Nemours & Company. (See Adams, R., Johnson, and Weinmayr, assignors.)
Du Pont, E. I., de Nemours & Company. (See Salzberg, P. L., and Bousquet, assignors.)
Durand, Jean B., Marseilles, France. Manufacture of foundry molds. 1,918,089; July 11.
Durand, Jean B., Marseilles, France. Composition for foundry molds. 1,918,090; July 11.
Dwyer, Frank W., Oak Park, Ill. Gauge. 1,917,637; July 11.
Dyment Company, The. (See Mullen, James T., assignor.)
Eames, George M., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feed-off-arm sewing machine. 1,917,756; July 11.
Eames, George M., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanism for sewing machines. 1,917,757; July 11.
Eames, Walter R. (See Marchese, J., and Eames.)
Earl Electric Mfg. Company, The. (See Wadsworth, George E., assignor.)
Earley, John Z., Miami, Fla. Electric sign. 1,917,956; July 11.
Eastman Kodak Company. (See Capstaff, John G., assignor.)
Eastman Kodak Company. (See Hickman, Kenneth C. D., assignor.)
Eastman Kodak Company. (See Lee, M. D., and Thomas, assignors.)
Eastman Kodak Company. (See Lowry, Earl M., assignor.)
Eastman Kodak Company. (See Malm, C. J., and Coleman, assignors.)
Eastman Kodak Company. (See Malm, C. J., and Fletcher, assignors.)
Eastman Kodak Company. (See Murray, Alexander, assignor.)
Eastman Kodak Company. (See Othmer, Donald F., assignor.)
Eastman Kodak Company. (See Perrins, Newton M., assignor.)
Eastman Kodak Company. (See Riddell, William A., assignor.)
Eastman Kodak Company. (See Seel, Paul C., assignor.)
Eastman Kodak Company. (See Staud, C. J., and Fuess, assignors.)
Eastman Kodak Company. (See Staud, C. J., and Murray, assignors.)
Eastman Kodak Company. (See Staud, C. J., and Van Dyke, assignors.)
Eastman Kodak Company. (See Staud, C. J., and Waring, assignors.)
Eastman Kodak Company. (See Stone, Herbert G., assignor.)
Eastman Kodak Company. (See Taylor, Ernest R., assignor.)
Eastman Kodak Company. (See Titus, Robert N., assignor.)
Eastman Kodak Company. (See Tucker, Milton F., assignor.)
Eastman Kodak Company. (See Tuttle, Fordyce, assignor.)
Eastman Kodak Company. (See Webber, C. S., and Staud, assignors.)
Eastwood Wire Corporation. (See Webb, Nelson W., assignor.)
Eclipse Aviation Corporation. (See Gregg, David, assignor.)
Edeleanu Gesellschaft, m. b. H. (See Saegebarth, Erich, assignor.)
Edison Cement Corporation. (See Cloos, Wilmot D., assignor.)
Edison, Thomas A., Incorporated. (See Dunning, Orville M., assignor.)
Edwards, Paul S. (See Barbulesco, C. D., and Edwards.)
Edwards, Paul S., Washington, D. C., and C. D. Barbulesco, Dayton, Ohio. Ultra sensitive relay. 1,917,243; July 11.
Edwards, Paul S., Fort Knox, Ky., and C. D. Barbulesco, Oakwood, Ohio. Electrical instrument. 1,917,244; July 11.
Edwards, Paul S., Fort Mead, Md., and C. D. Barbulesco, Dayton, Ohio. Photographing. 1,917,245; July 11.
Eggert, William H. (See Hughes, Burton S., Eggert, and S. Hughes.)
Ehrhart, Gustav. (See Bockmühl, M., Ehrhart, and Stein.)
Elbye, Carl. (See Vedoe, A. M., and Elbye.)
Eller, Franz, Dresden, Germany. Tiltable casing for concrete construction. 1,918,182; July 11.
Elnson-Freeman Co. (See Tanner, Arnold J., assignor.)
Electric Auto-Lite Company, The. (See Schneider, William G., assignor.)
Electrical Engineers Equipment Co. (See Bermann, Louis, assignor.)
Eli, Bernhard S. F., Spanga, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Drying and impregnating of cables. 1,917,957; July 11.
Elliott Company. (See McDermet, John R., assignor.)
Elliott, Elmer G., assignor to W. J. Pearson, Los Angeles, Calif. Keyboard lock. 1,917,511; July 11.
Ellis, William J., Steele, Ala. Door operating mechanism. 1,918,091; July 11.
Elsner, Richard, Johnson City, Tenn., assignor to American Glanzstoff Corporation, New York, N. Y. Yarn with even shrinkage. 1,917,512; July 11.
Elsner, Richard, Elizabethton, Tenn., assignor to American Glanzstoff Corporation, New York, N. Y. Yarn with even shrinkage. 1,917,518; July 11.
Emerson, Sam, et al. (See Jaworowski, Joseph F., assignor.)
Emmons, William W., Newark, N. J. Sleeve terminal box for electric cables. 1,917,242; July 11.
Engholm, Bernard A., Lakewood, assignor to The Rola Company, Cleveland, Ohio. Loud speaker. 1,918,092; July 11.
Engler, M. Russell. (See Hoge, Kenneth S., assignor.)
Enright, John J. (See Nitardy, F. W., Enright, and Wrenn.)
Ensign-Bickford Co., The. (See Pearsall, David E., assignor.)
Enterprise Manufacturing Company, The. (See Bowers, Dana W., assignor.)
Epstein, Albert K., and B. R. Harris, Chicago, Ill. Margarine emulsion and product to be used therein. 1,917,253; July 11.
Ermisch, Carl R., assignor of one-half to M. J. Maas, St. Paul, Minn. Camera focusing mechanism. 1,918,206; July 11.
Eshbaugh, Jesse E., Flint, Mich. Oxygen gas supply system. 1,917,958; July 11.
Eshbaugh, Jesse E., Flint, Mich. Air speed annunciator. 1,917,959; July 11.
Espenschied, Lloyd, Kew Gardens, N. Y., assignor to American Telephone and Telegraph Company. Four wire circuits. 1,917,960; July 11.

Evans, Dora B., Long Beach, Calif. Pump piston. 1,917,639; July 11.
Evans, Merrill A., Wharton, W. Va. Machine for handling coal and other loose material in mines. 1,917,514; July 11.
Evon, Louis C., Detroit, Mich. Bimetal piston. 1,917,706; July 11.
Fairbairn, Walter M., assignor to Barnes Drill Company, Rockford, Ill. Machine tool. 1,917,831; July 11.
Fairbanks, Elbert E., Long Beach, Calif. Cable or strand guiding mechanism. 1,917,640; July 11.
Fairchild, Herbert D., Yelm, Wash. Toilet paper rack. 1,917,641; July 11.
Fanelli, Rocco. (See Bacon, R. F., and Fanelli.)
Faries, Robert, St. Davids, Pa. Rail joint. 1,917,832; July 11.
Faris, Thomas H., Washington, D. C. Production of illusory effects. 1,917,246; July 11.
Farkas, E. N., et al. (See Snyder, Ward H., assignor.)
Farkas, Eugene, Brooklyn, N. Y. Photographic folding camera. 1,917,578; July 11.
Farkas, Frank F., et al. (See Snyder, Ward H., assignor.)
Faus, Harold T., Lynn, Mass., assignor to General Electric Company. Electrical instrument. 1,918,023; July 11.
Fedders Manufacturing Company. (See Siagel, Franklin G., assignor.)
Fee, Harry A., Adrian, Mich. Protective mask. 1,917,961; July 11.
Fetter, Edward, Baltimore, Md. Golf club structure. 1,917,795; July 11.
Fidelity Machine Company. (See Blaisdell, Sidney B., assignor.)
Fiedler, Curt, Chemnitz, Germany. Latch needle for picking up loops. 1,918,183; July 11.
Finkbeiner, Adolf and E. M., Woodmont, Conn. Walking crutch. 1,917,440; July 11.
Finkbeiner, Elizabeth M. (See Finkbeiner, Adolf and E. M.)
Finley, Henry B., Pennington, N. J. Collapsible tube structure. 1,917,833; July 11.
Firebar Corporation. (See Thompson, James S., assignor.)
First-Central Trust Company, The, trustee. (See Harris, Howard C., assignor.)
Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Construction material. 1,917,930; July 11.
Fischer, Erich, Bad Soden-on-the-Taunus, and A. Kissling and H. Kracker, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. New ortho-aniline-sulfonic acid. 1,917,441; July 11.
Fish, Clifford E. (See Miller, J. H., and Fish.)
Fiske & Company Inc. (See Colbert, Clarence L., assignor.)
Fitzky, Wilhelm, Frankfort-on-the-Main-Hochst, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Water-insoluble azo dyestuff and fiber dyed therewith. 1,917,442; July 11.
Flaig, J. A., & Son. (See Clem, Benjamin H., assignor.)
Fletcher, Charles L. (See Malm, C. J., and Fletcher.)
Flexible Truck Corporation. (See Taylor, Howard D., assignor.)
Fogarty, John J., assignor to Jenkins Interlock Manufacturing Company, Philadelphia, Pa. Elevator control. 1,918,024; July 11.
Fohn, Adolph E., assignor to Aurora Metal Cabinet Co., Aurora, Ill. Cabinet. 1,917,863; July 11.
Folmsbee, Clyde H., Cranford, N. J., assignor to American Car and Foundry Company, New York, N. Y. Tank anchor for welded tanks. 1,917,931; July 11.
Forrest, Wavery L., Dare, Va. Auxiliary chassis for automobiles. 1,917,962; July 11.
Foster Machine Company. (See McKean, John O., assignor.)
Frankford, Frank P., Ridgefield Park, N. J. Brake valve. 1,918,025; July 11.
Frantz, Samuel G., B. S. McCutchen, and W. V. Roberts, Princeton, N. J.; said Frantz and said Roberts assignors to said McCutchen. Thermostat control. 1,917,880; July 11.
Franzen, Peter. (See Paschke, F., and Franzen.)
Freeman, Hubert M., East Pittsburgh, Pa., and W. G. Wade, New York, N. Y., assignors to Westinghouse Electric and Manufacturing Company. Hot cathode electric discharge tube. 1,917,963; July 11.
Freyn Engineering Company. (See Whitcomb, A. J., Rice, and Callow, assignors.)
Frick, Stanley A. (See Resch, Tony, assignor.)
Frigidaire Corporation. (See Geiger, Carl F., assignor.)
Fritz, Albert C., Evergreen Park, Ill. Burial vault. Des. 90,280; July 11.
Frost, John J. (See Rood, L. C., Lane, and Frost.)
Fuess, James T. (See Staud, C. J., and Fuess.)
Fuchs, Camille H., New Rochelle, N. Y. Internal combustion engine. 1,917,758; July 11.
Fullerton, James B., and C. F. Rossetter, Los Angeles, Calif., assignors, by mesne assignments, to Bendix-Cowdrey Brake Tester, Inc. Brake testing machine. 1,918,026; July 11.
Fullmer, Giles C., assignor to The Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn. Razor blade box. 1,918,027; July 11.
Fulton, Paul D., assignor to The Huffman Manufacturing Company, Dayton, Ohio. Liquid dispensing can. Re18,891; July 11.
Fulton Syphon Company, The. (See Carson, William W., jr., assignor.)
Fulton Syphon Company, The. (See Giesler, Jean V., assignor.)
Furnas, Clifford C., Minneapolis, Minn. Controlling the temperature gradient up the shaft of a furnace. 1,917,642; July 11.
Furness, William H., National Park, N. J. Rayon manufacture. 1,917,515; July 11.
Fuschi, Giovanni, Castelli-Teramo, and M. Korach, Bologna, Italy. Proceeding for burning in piles the articles of nonglased porcelain especially suitable for cooling use. 1,917,964; July 11.
Gaede, John E., and E. M. Sargent; said Gaede assignor of one-eighth to Linda R. Janzen, Newton, Kans. Fishline bobber. 1,917,707; July 11.
Galeener, Charles E., Los Angeles, Calif. Window screen construction. 1,917,579; July 11.
Galion Iron Works & Manufacturing Company, The. (See Arndt, Franklin E., assignor.)
Gallagher, Robert J., Binghamton, N. Y. Control device for liquid dispensing apparatus. 1,917,364; July 11.
Gang, Harry W., Huntington, W. Va. Gasoline tank and ignition locking device. 1,918,093; July 11.
Gann, John A., assignor to The Dow Chemical Company, Midland, Mich. Casting readily oxidizable metal. 1,917,759; July 11.
Garrigues, Howard L. (See Williams, H. E., Garegues, and Richardson.)
Gassner, Sebastian, and W. Meiser, Leverkusen-I.-G.-Werk, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Azodyestuffs. 1,917,443; July 11.
Geekas, Demetrius G., New York, N. Y. Game device. 1,918,094; July 11.
Geiger, Carl F., assignor to Frigidaire Corporation, Dayton, Ohio. Pump for refrigerating apparatus. 1,917,760; July 11.
General Aniline Works, Inc. (See Baumann, Fritz, assignor.)
General Aniline Works, Inc. (See Clingtstein, H., and Dobmaier, assignors.)
General Aniline Works, Inc. (See Fischer, E., Kissling, and Kracker, assignors.)
General Aniline Works, Inc. (See Fitzky, Wilhelm, assignor.)
General Aniline Works, Inc. (See Gassner, S., and Meiser, assignors.)
General Aniline Works, Inc. (See Kuns, M. A., Stroh, and Dimroth, assignors.)
General Aniline Work, Inc. (See Wahl, Ottmar, assignor.)
General Aniline Work, Inc. (See Wolfram, A., and Hausdörfer, assignors.)
General Electric Company. (See Bedford, Burnice D., assignor.)
General Electric Company. (See Crawford, C. H., and Hoare, assignors.)
General Electric Company. (See Faus, Harold T., assignor.)
General Electric Company. (See Gilbert, Ralph A., assignor.)
General Electric Company. (See Gillette, Robert T., assignor.)
General Electric Company. (See Goff, Robert W., assignor.)
General Electric Company. (See Hewlett, Clarence W., assignor.)
General Electric Company. (See Hilliard, John D., assignor.)
General Electric Company. (See Hull, Albert W., assignor.)
General Electric Company. (See Kassick, William J., assignor.)
General Electric Company. (See Palmer, Robert, assignor.)
General Electric Company. (See Singer, Hanns, assignor.)
General Electric Company. (See Taylor, George F., assignor.)
General Electric Company. (See Tröger, Richard, assignor.)
General Electric Company. (See Turnpenny, W., and Skeats, assignors.)
General Electric Company. (See Watts, Noble H., assignor.)
General Tube Lights Corporation. (See Beck, Leo L., assignor.)
Gensburg, Louis W., Chicago, Ill. Game board. Des. 90,281; July 11.
Gerhardt, William F., Grosse Ile, Mich. Helicopter control and stabilizer. 1,917,965; July 11.
Germanson, Rudolph C., and F. Kranhold, Appleton, assignors to Paper Patents Company, Neenah, Wis. Process and apparatus for making paper. 1,918,095; July 11.
Germanton, Charles E., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Remote control device. 1,917,881; July 11.
Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schröter, Fritz, assignor.)
Gibson, Reginald W. (See Arcier, A. F., and Gibson.)

Giesler, Jean V., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Method and apparatus for drawing tubes. 1,917,708; July 11.
Gilbert, John J., Douglaston, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 1,917,882; July 11.
Gilbert, Ralph A., Pittsfield, Mass., assignor to General Electric Company. Multiple spot welding electrode. 1,918,226; July 11.
Gillen, George A., Bronx, N. Y., assignor to Oakes Products Corporation, North Chicago, Ill. Automatic starting system and control for hydrocarbon engines. 1,917,580; July 11.
Gillen, George A., Bronx, N. Y., assignor to Oakes Products Corporation, North Chicago, Ill. Centrifugal mercury switch. 1,917,581; July 11.
Gillespie, Henry C. (See Stern, C., Davis, and Gillespie.)
Gillette, Robert T., Scotia, N. Y., assignor to General Electric Company. Welding electrode. 1,918,028; July 11.
Gillette Safety Razor Company. (See Muros, Joseph, assignor.)
Gillies, William R., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Gasket. 1,917,834; July 11.
Gilliland, Horace G., near Cheshunt, England. Treatment of sewage sludges. 1,917,516; July 11.
Ginsberg, Jacob, assignor to M. J. Ginsberg, Brooklyn, and Morton Mormser, New York, N. Y. Vehicle. 1,917,932; July 11.
Ginsberg, Morris J., et al. (See Ginsberg, Jacob, assignor.)
Glanzstoff-Courtaulds G. m. b. H. (See Paschke, F., and Franzen, assignors.)
Globe American Corporation. (See Hill, Dewey H., assignor.)
Godsey, Frank W., jr. (See Von Ohlsen, L. H., and Godsey.)
Goepel, Margaret, New York, N. Y. Bill bank. 1,917,517; July 11.
Goertz, August, & Co. (See Goertz, F., and Batizley, assignors.)
Goertz, Frederick, South Orange, and L. E. Baltzley, Glen Ridge, N. J., assignors to August Goertz & Co. Inc. Structural joint. 1,917,365; July 11.
Goetz, Gottfried, assignor to Ludwig Kern, Webster Groves, Mo. Traveling loading device. 1,918,029; July 11.
Goff, Robert W., Schenectady, N. Y., assignor to General Electric Company. Circuit controller. 1,918,030; July 11.
Goldberg, Mark J., Beloit, Wis., assignor to Campbell, Wyant & Cannon Foundry Company, Muskegon Heights, Mich. Combustion chamber. 1,917,883; July 11.
Goldkamp, Otto B., assignor of one-half to San Diego Consolidated Gas and Electric Company, San Diego, Calif. Cleaner for fluids. 1,917,643; July 11.
Goldner, George W., Jackson, Mich., assignor to Line Material Company, Milwaukee, Wis. Lighting fixture. 1,918,031; July 11.
Gomes, Earl S., Cincinnati, Ohio. Fiberboard shipping carton. Re18,892; July 11.
Good, Robert, Washington, Pa., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Apparatus for feeding batch mixtures to furnaces. 1,917,247; July 11.
Goodman Manufacturing Company. (See Sloane, William M., assignor.)
Goodyear, Ernest F., Moxhall Park, Wishaw, J. Wright, Stoke Park, Coventry, and H. Trevaskis, Keresley, Coventry, assignors to Dunlop Rubber Company Limited, London, England. Aircraft wheel brake system. 1,917,933; July 11.
Goosman, Herbert J., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Electrically lighted floor cleaner. 1,917,761; July 11.
Gordon, Arthur, Chicago, Ill. Beer separator and dispensing faucet. 1,917,582; July 11.
Gottesman, Joseph M., Paris, France, assignor to William Willheim Co., Inc., New York, N. Y. Textile fabric or similar article. Des. 90,282; July 11.
Goudie, Charles R., assignor to The Carnie-Goudie Manufacturing Co., Kansas City, Mo. Canvas hammock. 1,917,518; July 11.
Goulooze, Martin J., Grand Rapids, assignor to Kelvinator Corporation, Detroit, Mich. Drinking water cooler. Des. 90,283; July 11.
Graham-Paige Motor Corporation. (See Kishline, Floyd F., assignor.)
Grandinetti, Joseph, Syracuse, N. Y. Combined bottle filling and capping machine. 1,917,796; July 11.
Graton & Knight Company. (See Griffith, Winfred S., assignor.)
Gray, James A., assignor to American Can Company, San Francisco, Calif. Method of and apparatus for making angular containers. Re18,890; July 11.
Gray, Joseph A., Norwalk, Conn. Resilient wheel. 1,918,032; July 11.
Gray, Percy. (See Adam, W. G., and Gray.)
Gray, Russell J. (See Butler, Clyde G., assignor.)
Gray, Russell J., Minneapolis, Minn. Lubricating system. 1,917,966; July 11.
Grebe, John J., R. H. Boundy, and L. C. Chamberlain, assignors to The Dow Chemical Company, Midland, Mich. Extracting bromine from dilute saline solutions. 1,917,762; July 11.
Green, Sylvester, Vauxhall, N. J. Casting float. 1,917,967; July 11.
Greene, Frank C., Chicago, Ill. Blast furnace. 1,917,968; July 11.
Greenwald, Willard F. (See Weisberg, L., and Greenwald.)
Gregg, David, Caldwell, assignor to Eclipse Aviation Corporation, East Orange, N. J. Supercharger. 1,917,444; July 11.
Grether, Ernest F., assignor to The Dow Chemical Company, Midland, Mich. Azo dye and making same. 1,917,519; July 11.
Grether, Ernest F., assignor to The Dow Chemical Company, Midland, Mich. Direct-developed azo dyes. 1,917,835; July 11.
Greve, Edgar E., Bellevue, assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa. Method and apparatus employed in the drilling of wells. 1,918,096; July 11.
Greve, Edgar E., Bellevue, assignor to Oil Well Supply Company, Oil City, Pa. Drawworks. 1,918,097; July 11.
Grey, John, New York, N. Y. Kyle. 1,917,520; July 11.
Griffin, Archibald J., Yuma, Ariz. Threshing machine. 1,917,583; July 11.
Griffith, Clifford, and J. G., Entiat, Wash. Fruit dumper. 1,917,709; July 11.
Griffith, J. Gilbert. (See Griffith, Clifford and J. G.)
Griffith, Winfred S., assignor to Graton & Knight Company, Worcester, Mass. Mechanism and cementing double leather belts. 1,917,296; July 11.
Griswold, Thomas, jr., assignor to The Dow Chemical Company, Midland, Mich. Apparatus for the production of carbon disulphide. 1,918,033; July 11.
Grobstein, John J., and B. M. Crum, assignors to The Stanley Works, New Britain, Conn. Method of and apparatus for removing lubricant from cold rolled strip metal. 1,918,207; July 11.
Groetken, Joseph J., Aurora, Ill. Flow meter. 1,917,710; July 11.
Grothe, Arthur A., Oak Park, assignor to W. J. Cameron, Chicago, Ill. Safety razor. 1,917,220; July 11.
Guardets Inc. (See Marchese, J., and Eames, assignors.)
Guinn, Lester L. (See Taylor, R. B., and Guinn.)
Gundelach, Albert E., Chicago, Ill. Combined coaster and ash tray. Des. 90,284; July 11.
Gusdorf, Harold M., Indianapolis, Ind. Cut-off for dispensing devices. 1,917,366; July 11.
Guthrie, James M. (See Jaspert, G. H., and Guthrie.)
Guy, Frederick M., assignor to Guy and Murton Incorporated, Detroit, Mich. Motor support and frame connection. 1,917,644; July 11.
Guy and Murton Incorporated. (See Guy, Frederick M., assignor.)
H. T. H. Corporation, The. (See Turner, Carl D., assignor.)
Hacklander, Hans, Tinley Park, and F. F. Zeier, assignors to Union Special Machine Company, Chicago, Ill. Fabric guide for sewing machines. 1,917,711; July 11.
Haddlesay, Charles S., Elmhurst, Ill. Control monorail car apparatus. 1,917,836; July 11.
Haddlesay, Charles S., Elmhurst, Ill. Switch operating means. 1,917,837; July 11.
Hadley, Newton F., Beverly Hills, assignor to Chrysler Corporation, Detroit, Mich. Hydraulic shock absorber. 1,918,034; July 11.
Hagel, Albert, Newark, assignor to Consolidated Safety Pin Company, Bloomfield, N. J. Safety pin holder. 1,917,838; July 11.
Hague, Alfred E., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Call charging telephone system. 1,917,884; July 11.
Hague, Floyd T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Oiling system for bearings. 1,917,969; July 11.
Hahn, Edgar, et al. (See Jaworowski, Joseph F., assignor.)
Harnel, Arthur P., assignor to Rising Sun Embroidery Works, Inc., Royersford, Pa. Stocking frame for embroidering machines. 1,917,935; July 11.
Hale, Alfred T. C., and E. Keeling, assignors of one-third to A. G. Parker & Company, Limited, Birmingham, England. Back sight for small arms. 1,917,645; July 11.
Haley, Charles E., Canton, Ohio. Candle holder. 1,918,098; July 11.
Hall, Horace W., Newton Mass. Boat. 1,917,367; July 11.
Hamilton, Beaucamp & Woodworth. (See Woodworth, Selim E., assignor.)
Hamlet, Willard, assignor of one-half to J. L. Whitehurst, Baltimore, Md. Vaporizing machine. 1,917,712; July 11.
Hammer, Samuel, assignor to United Metal Box Co. Inc., Brooklyn, N. Y. Latch means for cabinet doors. 1,917,297; July 11.
Hammer, Samuel, assignor to United Metal Box Co. Inc., Brooklyn, N. Y. Disposal device. 1,917,298; July 11.
Hankins, Frederick W., Philadelphia, Pa. Air distribution nozzle. 1,917,299; July 11.
Hanks, George R., Clinton, assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Road marker. 1,918,099; July 11.
Hanley, Edmund C., Muskegon, Mich. Sprinkler hose appliance. 1,917,934; July 11.

Hann, William E. (See Ball, A. P., and Hann.)
Hansen, Friedrich C. H., Hamburg, assignor to Nier & Ehmer, Beierfeld, Germany. Coin freed automatic shooting machine. 1,917,444; July 11.
Hanson, Norman D., Bloomfield, N. J., assignor to Bakelite Corporation, New York, N. Y. Phenol-furfural resin and making the same. 1,917,248; July 11.
Hardinge Company. (See Hardinge, Harlowe, assignor.)
Hardinge, Harlowe, assignor to Hardinge Company, Incorporated, York, Pa. Rotary wet classifier. 1,917,300; July 11.
Hardy, James H., Crawford, Miss. Tire pressure indicator. 1,918,035; July 11.
Harnsberger, Audley E., assignor to The Pure Oil Company, Chicago, Ill. Gas gathering system. 1,918,100; July 11.
Harris, Archer H., administrator. (See Harris, Howard C.)
Harris, Benjamin R. (See Epstein, A. K., and Harris.)
Harris, Benjamin R., Chicago, Ill. Emulsion. 1,917,249; July 11.
Harris, Benjamin R., Chicago, Ill. Emulsion. 1,917,250; July 11.
Harris, Benjamin R., Chicago, Ill. Emulsion. 1,917,251; July 11.
Harris, Benjamin R., Chicago, Ill. Emulsion. 1,917,252; July 11.
Harris, Benjamin R., Chicago, Ill. Margarine and producing the same. 1,917,254; July 11.
Harris, Benjamin R., Chicago, Ill. Emulsion. 1,917,255; July 11.
Harris, Benjamin R., Chicago, Ill. Emulsion. 1,917,256; July 11.
Harris, Benjamin R., Chicago, Ill. Emulsion. 1,917,257; July 11.
Harris, Benjamin R., Chicago, Ill. Emulsion. 1,917,258; July 11.
Harris, Benjamin R., Chicago, Ill. Emulsion. 1,917,259; July 11.
Harris, Benjamin R., Chicago, Ill. Emulsions. 1,917,260; July 11.
Harris, Howard C., deceased; A. H. Harris, administrator, assignor, by mesne assignments, to The First-Central Trust Company, Akron, Ohio. Pivotal connection. 1,917,797; July 11.
Hart Glass Manufacturing Company. (See McDonald, Harry R., assignor.)
Hartman, Edward M., Milton, Pa., assignor to American Car and Foundry Company, New York, N. Y. Valve and operating means therefor. 1,917,936; July 11.
Hartman, Edward M., Milton, Pa., assignor to American Car and Foundry Company, New York, N. Y. Valve and operating means therefor. 1,918,184; July 11.
Hartness, James, Springfield, Vt. Screw-thread gauge. 1,917,301; July 11.
Haug, John S., assignor to United Engineers & Constructors Inc., Philadelphia, Pa. Mechanical grate for gas generators. 1,917,839; July 11.
Hauge, Andrew, Michigan City, Ind., assignor to Sullivan Machinery Company. Loading machine. 1,917,368; July 11.
Hausdörfer, Emil. (See Wolfram, A., and Hausdörfer.)
Hawkinson, Paul E., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Retreading tire casings. 1,917,261; July 11.
Hawkinson, Paul E., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Apparatus for retreading tire casings. 1,917,262; July 11.
Hawkinson, Paul E., Company. (See Hawkinson, Paul E., assignor.)
Hayes, Charles L., assignor to Bella and Company, Brooklyn, N. Y. Cushion. 1,917,970; July 11.
Hayes, Stuart J., assignor to Ludlow Manufacturing Associates, Ludlow, Mass. Fish net. 1,917,937; July 11.
Hayes, Stuart J., assignor to Ludlow Manufacturing Associates, Ludlow, Mass. Thread. 1,917,938; July 11.
Hayward Company, The. (See Brendlin, Herman J., assignor.)
Hazel-Atlas Glass Company. (See Good, Robert, assignor.)
Hearn, Richard B., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph repeater circuit. 1,917,885; July 11.
Heaslet, James G., Shaker Heights, assignor to The Cleveland Tractor Company, Cleveland, Ohio. Lubricating means. 1,917,584; July 11.
Heaton, Herman C. (See Rossman, A. M., and Heaton.)
Heck, John T., assignor to De-Lite Screen Co., Chicago, Ill. Portable picture screen stand. 1,917,869; July 11.
Hedrick, Gale H., Glenshaw, Pa. Aerial bomb. 1,917,263; July 11.
Heeter, Joseph W., East Butler, Pa. Frangible joint. 1,917,939; July 11.
Hehr, Frederick G., assignor to Aerol Engine Corporation New York, N. Y. Tube for conducting liquids. 1,917,941; July 11.
Heidbrink, Jay A., Minneapolis, Minn. Pulmonary ventilating apparatus. 1,917,940; July 11.
Heinrich, Richard, Berlin-Sudende, Germany, assignor to International Precipitation Company, Los Angeles, Calif. Electrical precipitation apparatus. 1,917,522; July 11.
Hele-Shaw, Henry S., London, England. Collar for personal wear. 1,917,971; July 11.

Henderson, Harold C. (See Case, E. C., and Henderson.)
Henriot, Floyd, Klamath Falls, Oreg. Hydraulic clutch or braking device. 1,917,972; July 11.
Henriques, Jacob M., Curacao, Dutch West Indies. Shaving brush. 1,918,101; July 11.
Hensley, Charles G., receiver. (See Newmann, John, assignor.)
Herdter, George A., St. Albans, assignor to C. R. Daniels Inc., New York, N. Y. Sewing machine. 1,917,840; July 11.
Herlihy, John J., Pittsburgh, Pa.. Combined radio cabinet and lamp. 1,917,798; July 11.
Herr, Edward W., Freeport, assignor to Darco Sales Corporation, New York, N. Y. Promotion of fermentation. 1,917,521; July 11.
Herrmann, Otto, Wiesbaden, assignor to Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany. Making viscose. 1,917,646; July 11.
Hessen, Richard, Bautzen, Germany. Preparation of resitols. 1,917,718; July 11.
Hewlett, Clarence W., Schenectady, N. Y., assignor to General Electric Company. Film sound record apparatus. 1,918,102; July 11.
Hickman, Kenneth C. D., assignor to Eastman Kodak Company, Rochester, N. Y. Duplicating process. 1,917,570; July 11.
Hill, Dewey H., assignor to Globe American Corporation, Kokomo, Ind. Roost-preventer for poultry fountains or feeders. 1,917,571; July 11.
Hill, Gerrit D., assignor to Sargent & Greenleaf, Inc., Rochester, N. Y. Multiple key lock. 1,917,802; July 11.
Hill, Truman, and E. H. Zimmerman, Perry, Ill. Jack. 1,917,585; July 11.
Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Fluid insulated conductor. 1,918,036; July 11.
Hines, Kenneth J., Falls Church, Va. Lunch stand. Des. 90,285; July 11.
Hitt, Samuel E., Elyria, Ohio. Three-hulled aeroship. 1,917,446; July 11.
Hoare, Stephen C. (See Crawford, C. H., and Hoare.)
Hoelkeskamp, Frans, Wuppertal, Barmen, Germany, assignor to American Bemberg Corporation, New York, N. Y. Ammoniacal compound for use in the textile industry. 1,917,265; July 11.
Hofius, Heinrich W., Dahmeshoved near Dahme, Germany. Swimming appliance with flap drive. 1,918,185; July 11.
Hogan, George F., Chicago, Ill. Carton. 1,917,886; July 11.
Hoge, Kenneth S., assignor to M. Russell Engler, San Diego, Calif. Book sewing machine. 1,917,647; July 11.
Hollingshead, Everett H., Dayton, Tex. Line marker. 1,918,103; July 11.
Holloway, Melville E. (See Mayhew, K. W., and Holloway.)
Holmes, Henry H., assignor to Wildt and Company Limited, Leicester, England. Knitting machine. 1,917,763; July 11.
Holt, Pliny E. (See Vachon, Lewis W., assignor.)
Holzwarth Gas Turbine Co. (See Holzwarth, Hans, assignor.)
Holzwarth, Hans, Dusseldorf, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif. Portable power plant. 1,917,714; July 11.
Hook, Reuben E., Lewistown, Pa. Shingle cutter. 1,918,104; July 11.
Hookless Fastener Company. (See Sundback, Gideon, assignor.)
Hope, Ernest, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Abrading and scouring roll. 1,917,303; July 11.
Hotchkiss, Henry T., jr. (See Bacon, R. F., and Hotchkiss.)
Houst, Frans, Pilsen, Czechoslovakia. Oil switch with rotatable contact bridge. 1,917,887; July 11.
Howell, Edward D., Springfield Gardens, assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Punch press guard. 1,918,037; July 11.
Howie, Alexander, Shaker Heights, Ohio. Container composed of structural members. 1,917,764; July 11.
Hubbard and Company. (See Peirce, Charles L., jr., assignor.)
Huber, Joseph L., Indianapolis, Ind. Water heater. 1,917,586; July 11.
Hudd, Alfred E., Surbiton, England, assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Train stop and cab signal system. 1,917,372; July 11.
Hufferd, George H. (See Crawford, F. C., and Hufferd.)
Huffman Manufacturing Company, The. (See Fulton, Paul D., assignor.)
Hughes, Burton S., W. H. Eggert, and S. Hughes, assignors to Zaremba Company, Buffalo, N. Y. Method of and apparatus for evaporating solutions. 1,917,841; July 11.
Hughes, Thomas S., Patchogue, N. Y. Lock for automobiles, etc. 1,917,973; July 11.
Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Transmission of electric power. 1,918,105; July 11.
Hunt, Warren T., assignor to The Willys Overland Co., Toledo, Ohio. Sheet metal lever. 1,917,715; July 11.

Hupp Motor Car Corporation. (See MacPherson, Earle S., assignor.)
Hurley, James E., Sioux City, assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Hay loader. 1,917,765; July 11.
Hyde, John H., Marcus Hook, Pa. Spark plug. 1,917,888; July 11.
I. G. Farbenindustrie Aktiengesellschaft. (See Pier, M., Wietzel, and Winkler, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schweitzer, Eugen, assignor.)
Ilg Electric Ventilating Company. (See Sutcliffe, Arthur G., assignor.)
Industrial Solvents, Inc. (See Runnels, Paul, assignor.)
Ingersoll-Rand Company. (See Nash, Julius, assignor.)
Ingersoll-Rand Company. (See Sickels, Christie C., assignor.)
Ingersoll-Rand Company. (See Smith, William A., sr., and W. A., jr., assignors.)
Ingersoll-Rand Company. (See Terry, Edward F., assignor.)
Inglis, Henry B., Brooklyn, N. Y., C. L. Paulus and R. Kaugh, Dayton, Ohio. Flow meter. 1,917,974; July 11.
International Agricultural Corporation. (See Barr, James A., assignor.)
International Motor Company. (See Masury, Alfred F., assignor.)
International Motor Company. (See Schantz, G. M., and Diefenderfer, assignors.)
International Precipitation Company. (See Heinrich, Richard, assignor.)
International Precipitation Company. (See Lissman, Marcel A., assignor.)
International Radiophone Corporation. (See Polin, Herbert S., assignor.)
International Silver Company. (See Beck, Ernest T., assignor.)
Intertype Corporation. (See Sperry, Samuel E., assignor.)
Irons, Andrew D., and D. L. Waldock, Highland Park, Mich. Metal spraying device. 1,917,523; July 11.
Jacobsen, Christian M., Newcastle, Ind. Adjustable headrest. 1,917,587; July 11.
Jacques, Henry E., Detroit, Mich. Cloth cutting machine. 1,917,889; July 11.
Jaeger, Alphons O., Mount Lebanon, assignor, by mesne assignments, to The Selden Research & Engineering Corporation, Pittsburgh, Pa. Catalytic converter. 1,917,716; July 11.
Jaeger, Alphons O., Mount Lebanon, assignor to The Selden Company, Pittsburgh, Pa. Catalytice oxidation of ammonia. 1,918,038; July 11.
Jaite, Roy W., Lakewood, Ohio. Paper bag. 1,917,975; July 11.
Jakobsen, Svend O., Holevarde, near Haugesund, Norway. Spring for cars. 1,917,373; July 11.
Janson, Carl G. (See Wallgren, A. G. F., and Janson.)
Janzen, Linda R. (See Gaede, J. E., assignor and Sargent.)
Jaquith, Lucie F., West Lynn, Mass., assignor to Teletype Corporation, Chicago, Ill. Telegraph printer. 1,917,304; July 11.
Jaspert, George H., and J. M. Guthrie, assignors of one-third to W. B. Jaspert, Pittsburgh, Pa. Lighter. 1,917,766; July 11.
Jaspert, William B. (See Jaspert, G. H., and Guthrie, assignors.)
Jaworowski, Joseph F., assignor of five-eighteenths to S. E. Dettelbach, five-eighteenths to S. Emerson, and two-eighteenths to E. Hahn, Cleveland, Ohio. Rotary pump. 1,917,524; July 11.
Jenkins Interlock Manufacturing Company. (See Fogarty, John J., assignor.)
Jensen, Carl L. E., A. Utkov, and K. Warming, Copenhagen, Denmark. Reenforcement for round reaction towers for the manufacture of sulphuric acid. 1,917,717; July 11.
Jensen, Sanning C., Neola, Iowa. Rotary hammer. 1,917,525; July 11.
Jewett, Joseph E., Mount Lebanon, assignor to The Selden Company, Pittsburgh, Pa. Process and apparatus for effecting organic oxidations. 1,917,718; July 11.
Jipp, August. (See Kruhme, E., Jipp, and Rossberg.)
Joerissen, Carl A., Paris, France. Noiseless typewriter. 1,918,106; July 11.
Johnson, Albert M., assignor to Barnes Drill Company, Rockford, Ill. Drilling machine spindle. 1,917,842; July 11.
Johnson, Anthon G., Gilman, Iowa. Oil heater for permanent hair waving equipment. 1,917,305; July 11.
Johnson, Chester B., Hasbrouck Heights, and C. H. Bryant, Jersey City, N. J., assignors to Russell Supply Co., Inc., New York, N. Y. Type bed bearer. 1,917,719; July 11.
Johnson, Earl H. (See Adams, R., Johnson, and Weinmayr.)
Johnson Fare Box Company. (See Thompson, Ernest H., assignor.)
Johnson, Frank E., assignor to John L. Paulding, Inc., New Bedford, Mass. Wall switch. 1,917,843; July 11.
Johnson, John A., Rockford, Ill. Clothes hanger. 1,917,588; July 11.
Johnson, Richard P., Long Beach, Calif. Dispensing device. 1,917,976; July 11.
Johnson Service Company. (See Otto, Arthur J., assignor.)
Joiner, Sylvester L., Sweetwater, Tex. Cross coupler draft key retainer. 1,918,107; July 11.
Jones Chemical Company, Incorporated. (See Jones, Coulter W., assignor.)
Jones, Coulter W., Midland, Mich., assignor to Jones Chemical Company, Incorporated, McDade, La. Extracting iodine from aqueous solutions. 1,918,039; July 11.
Jones, Ellis L., Long Island City, assignor, by mesne assignments, to American Sealcone Corporation, New York, N. Y. Receptacle making apparatus. 1,917,874; July 11.
Jonkhoff, Henri W., Dusseldorf, Germany. Tubular shaft coupling. 1,918,108; July 11.
Jorgenson, Alfred R., Chicago, and R. O. Moody, La Grange, Ill. Railroad ticket. 1,917,720; July 11.
Josephs, Henry, New York, N. Y. Shoe horn. Des. 90,286; July 11.
Joyce, Lyndon W., Greensboro, N. C. Reel package. 1,918,109; July 11.
Juengst, Fred W., and O. M. Anderson, assignors to Landers, Frary & Clark, New Britain, Conn. Support for culinary appliances. 1,918,186; July 11.
Kalert, Frank N., and J. Suda, St. Louis, Mo. Comic strip display device. 1,917,977; July 11.
Kalle & Co., Aktiengesellschaft. (See Herrmann, Otto, assignor.)
Kalling, Bo M. S., and von Delwig, Avesta, assignors to A. Johnson & Co., Stockholm, Sweden. Method and apparatus for heat treatment of materials in rotary furnaces. 1,917,942; July 11.
Kamil, Joseph, New York, N. Y. Provision cabinet. 1,917,721; July 11.
Kancler, Sigmund, Maspeth, N. Y. Foldable table. 1,917,526; July 11.
Kane, Peter W., Chicago, Ill. Pneumatic shock absorber. 1,917,589; July 11.
Karolus, August, Leipsig, Germany, assignor to Radio Corporation of America. Reproducing acoustic film. 1,917,306; July 11.
Kassick, William J., Newark, N. J., assignor to General Electric Company. Hinge. 1,918,040; July 11.
Kauch, Robert. (See Inglis, H. B., Paulus, and Kauch.)
Kauch, Robert. (See Paulus, C. L., and Kauch.)
Kearney, James R., Corporation. (See Trescott, John B., assignor.)
Kearney, James R., Corporation. (See Trescott, J. B., and Baker, assignors.)
Kearney & Trecker Corporation. (See Curtis, Frank W., assignor.)
Keeling, Elijah. (See Hale, A. T. C., and Keeling.)
Keener, Wendell C., Princeton, Ill. Aerial sign. 1,917,978; July 11.
Keith, James I., Detroit, Mich. Holster. 1,917,844; July 11.
Keldur Corporation. (See Schluter, Ernst, assignor.)
Keller, Karl O., assignor to William Doxford & Sons Limited, Sunderland, England. Conducting fluids to reciprocating parts of machinery. 1,917,590; July 11.
Kelley-Koett Manufacturing Company, The. (See Werner, Wilbur S., assignor.)
Kellogg, John H., Battle Creek, Mich. Chair. 1,917,264; July 11.
Kelly, Andrew, assignor to Borax Consolidated Limited, London, England. Manufacture of boric acid. 1,918,110; July 11.
Kelly, Anna B. J., New York, N. Y., assignor to Scofield and James, Cleveland, Ohio. Catamenial belt. 1,917,979; July 11.
Kelsey-Hayes Wheel Corporation. (See Cataline, Benton, assignor.)
Kelsey, William C., Burns, Oreg. Vertical filing system. 1,917,980; July 11.
Kelvinator Corporation. (See Goulooze, Martin J., assignor.)
Kemp, Thomas A., assignor to The Long-Bell Lumber Company, Kansas City, Mo. Window frame. 1,917,845; July 11.
Kern, Ludwig. (See Goetz, Gottfried, assignor.)
Kerr, Theresa S., Buffalo, assignor to National Aniline and Chemical Company, New York, N. Y. Production of arylides of 2.3-hydroxynaphthoic acid. 1,917,890; July 11.
Kimball, Franklin E., Long Beach, Calif. Refining gasoline with zinc chloride. 1,917,648; July 11.
Kindl, Joseph V., assignor to The W. J. Schoenberger Company, Cleveland, Ohio. Gas valve. 1,917,981; July 11.
Kindl, Joseph V., assignor to The W. J. Schoenberger Company, Cleveland, Ohio. Gas fixture. 1,917,982; July 11.
Kindl, Joseph V., assignor to The W. J. Schoenberger Company, Cleveland, Ohio. Gas valve. 1,917,983; July 11.
King, Ludlow H., and R. G. Stock, St. Louis County, Mo. Antiglare device. 1,917,799; July 11.
Kingsbury, Edward J. (See Swahnberg, G., and Kingsbury.)
Kingsbury Machine Tool Corporation. (See Swahnberg, G., and Kingsbury, assignors.)

Kinkead, Robert S., St. Paul, Minn. Mower. 1,917,649; July 11.
Kirby, Charles H., assignor to Marvel Carburetor Company, Flint, Mich. Carburetor primer. 1,917,591; July 11.
Kirkstaedter, Irmfried, Berlin, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany. Amplifier power supply. 1,917,722; July 11.
Kirner, Josef, Stuttgart, Germany, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Making bearing material. 1,918,187; July 11.
Kishline, Floyd F., Detroit, Mich., assignor to Graham-Paige Motors Corporation. Vibration damper. 1,917,650; July 11.
Kissling, Albert. (See Fischer, E., Kissling, and Kracker.)
Kittel, John J., St. Albans, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,917,800; July 11.
Kittel, John J., St. Albans, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,917,984; July 11.
Kittel, John J., St. Albans, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,917,985; July 11.
Klinkenberg, Adolf, Wittbraucke near Herdecke, Kreis Hagen, assignor to the Firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Structural steel. 1,917,527; July 11.
Klopsteg, Paul E., assignor to Central Scientific Company, Chicago, Ill. Gas pressure apparatus. 1,917,846; July 11.
Klopsteg, Paul E., assignor to Central Scientific Company, Chicago, Ill. Spark apparatus. 1,917,847; July 11.
Knapke, Fred, Middle Village, Long Island, N. Y. Rhythm maintaining device for artificial respiration. 1,918,041; July 11.
Knauer, Arthur, assignor to Narrow Fabric Company, West Reading, Pa. Elastic fabric. Des. 90,287; July 11.
Knowlton, Donald R. (See Crites, W. J., and Knowlton.)
Kobe, Inc. (See Coberly, Clarence J., assignor.)
Koch. (See Leiter, Inga, née Koch.)
Koch, Emil, Mulheim-Ruhr, Germany. Lubricating arrangement for use in bearings. 1,917,447; July 11.
Kocks, Fritz, assignor to the Firm Vereinigte Stahlwerke Aktiengellschaft, Dusseldorf, Germany. Pilgering rolling mill. 1,917,448; July 11.
Koehler Manufacturing Company. (See Wheat, Grant, assignor.)
Koehring Company. (See Russell, Leslie A., assignor.)
Kohlmiller, Alfred A., Los Angeles, Calif. Machine for sharpening razor blades. 1,918,111; July 11.
Kohout, George A., Chicago, Ill. Automatic stoker. 1,917,375; July 11.
Kolemba, John. (See Osip, J., and Kolemba.)
Koller, Herman H., Amsterdam, N. Y. Roller shade. 1,917,449; July 11.
Korach, Maurizio. (See Fuschi, G., and Korach.)
Köster, Werner, Dortmund, assignor to the Firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Production of alloys capable of being forged and hardened. 1,917,723; July 11.
Kracker, Herbert. (See Fischer, E., Kissling, and Kracker.)
Kraft-Phenix Cheese Corporation. (See Platt, John H., assignor.)
Krakower, David L., Tulsa, Okla. Necktie. 1,917,651; July 11.
Kranhold, Frederick. (See Germanson, R. C., and Kranhold.)
Krchma, Ignace J. (See Martin, J., and Krchma.)
Krieger, Eugene, Buffalo, N. Y., assignor to Riley Stoker Corporation, Worcester, Mass. Automatic stoker. 1,917,652; July 11.
Kroesen, Jay C., Belleville, N. J. Sound track mechanism. 1,917,653; July 11.
Kroger, Fred H., Ridgewood, N. J., assignor to Radio Corporation of America. Radio receiving apparatus. 1,917,307; July 11.
Kronquest, Alfred L., Syracuse, and F. G. Searle, Bronxville, assignors to Continental Can Company, Inc., New York, N. Y. Funnel for dispensing lubricating oil. 1,918,112; July 11.
Kruhme, Erich, Berlin-Treptow, A. Jipp, and E. Rossberg, Berlin-Siemensstadt, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt near Berlin, Germany. System of communication by means of current impulses. 1,918,043; July 11.
Krum, Howard L., Kenilworth, assignor to Teletype Corporation, Chicago, Ill. Pin barrel selector armature retaining type. 1,917,308; July 11.
Kuns, Max A., Mannheim, R. Stroh, and H. Dimroth, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. 9.10 diamino anthracene and its N-substitution products. 1,917,801; July 11.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,917,943; July 11.
Kuzelewski, Albert R., assignor to American Engineering Company, Philadelphia, Pa. Hydraulic steering gear. 1,917,528; July 11.
Kvaal, Albert, Smestad, near Oslo, Norway, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Telephone set. 1,917,724; July 11.
Kyle, George L., assignor to U S L Battery Corporation, Niagara Falls, N. Y. Storage battery. 1,918,044; July 11.
L. C. L. Corporation, The. (See Woodruff, Graham C., assignor.)
Lademann, William L., New York, N. Y. Outlet box support. 1,917,450; July 11.
Lagerholm, Nils A., Jonkoping, Sweden. Collecting filled match boxes. 1,917,986; July 11.
Lampert, Lydia, assignor to Universal Form Clamp Co., Chicago, Ill. Individual bar chair. 1,917,529; July 11.
Landers, Frary & Clark. (See Anderson, Oscar M., assignor.)
Landers, Frary & Clark. (See Juengst, F. W., and Anderson, assignors.)
Landis Tool Company. (See Steiner, A. P., Balsiger, and Wine, assignors.)
Lane, John F. (See Rood, L. C., Lane, and Frost.)
Langdon, Clarence P., Hydesville, Calif. Tractor attachment. 1,917,944; July 11.
Langstreth, Melon. (See Andrew, T. E., and Langstreth.)
Lanham, Colonel W., Chicago, Ill. Corn planter. 1,917,654; July 11.
Large, Samuel R., assignor to The New Departure Manufacturing Company, Bristol, Conn. Antifriction bearing and seal. 1,917,987; July 11.
Large, Samuel R., assignor to The New Departure Manufacturing Company, Bristol, Conn. Bearing and guard therefor. 1,917,988; July 11.
Larsen, Agnew E., Huntingdon Valley, assignor to Autogiro Company of America, Philadelphia, Pa. Aircraft of the rotative-blade type. 1,917,530; July 11.
Larsen, Werner E. B., Copenhagen, Denmark. Making films for natural color reception. 1,918,206; July 11.
Larson, Sven P., Berkeley, Calif. Pan greasing machine. 1,917,767; July 11.
Laub, Hans, Wilmersdorf, Germany. Heating system. 1,918,209; July 11.
Lawson, Albert R., Hamilton, Ontario, Canada. Manifolding sales book. 1,918,045; July 11.
Leash, H. E. (See Leash, Kenneth H., assignor.)
Leash, Kenneth H., assignor to H. E. Leash, Oakland, Calif. Windmill. 1,917,655; July 11.
Lebach, Hans, and J. K. Wirth, assignors to Süurecheim Gesellschaft m. b. H., Berlin-Altglienicke, Germany. Production of molded articles from plastic compositions. 1,917,451; July 11.
Lee, Benjamin F., Niagara Falls, N. Y. Lamp or similar article. Des. 90,288; July 11.
Lee, Elmer J., Bangor, Pa. Device for heating water. 1,918,113; July 11.
Lee, Maynard D., and H. M. Thomas, assignors to Eastman Kodak Company, Rochester, N. Y. Shipping and dispensing container for sheet material. 1,917,376; July 11.
Leeds & Northrup Company. (See Doyle, Edgar D., assignor.)
Leffel, James & Company, The. (See Swindler, Harry M., assignor.)
Lehigh Coal and Navigation Company, The. (See Wilson, Edwin L., assignor.)
Leiter, Inga, Nee Koch, Berlin-Steglitz, Germany. Clamping clip. 1,917,377; July 11.
Lempco Products Inc. (See Blazek, John Y., assignor.)
Lenander, Nils E., Lokken Verk, Norway, assignor to Patentaktiebolaget Grondal-Ramén, Stockholm, Sweden. Condensation of sulphur arsenic compounds. 1,917,725; July 11.
Lenfant, Louis, assignor to Cartier, Societe Anonyme, Paris, France. Gold alloy. 1,917,378; July 11.
Lent, Philip. (See Bisoni, H., and Lent.)
Leonard, Michael, Rolette, N. Dak. Chimney beater. 1,917,802; July 11.
Leopold, Joachim, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt near Berlin, Germany. Diaphragm for acoustic apparatus. 1,917,309; July 11.
Lesage, Alfred, Schweinfurt, Germany. Air cleaning apparatus. 1,917,310; July 11.
Levin, Isaac H., Pittsburgh, Pa. Separating gaseous mixtures into their constituents. 1,917,891; July 11.
Lewis, Arthur W. (See Bowen, Oliver G., assignor.)
Libert, Marcel, Paris, France, assignor to William Wilhelm Co. Inc., New York, N. Y. Textile fabric or similar article. Des. 90,289; July 11.
Lincoln Electric Company, The. (See Lincoln, James F., assignor.)
Lincoln, James F., East Cleveland, assignor to The Lincoln Electric Company, Cleveland, Ohio. Electric arc welding apparatus. 1,917,531; July 11.
Line Material Company. (See Goldner, George W., assignor.)
Lissman, Marcel A., Alhambra, assignor to International Precipitation Company, Los Angeles, Calif. Method and apparatus for dispersing divided solid material in gas. 1,917,266; July 11.
Loeb, Julien, Brooklyn, N. Y. Cooling chest for foodstuffs. 1,918,046; July 11.
Loewenstein, Rudolph, Paris, France. Device for automatically dimming the lights of automobiles. 1,917,532; July 11.

Long-Belt Lumber Company, The. (See Kemp, Thomas A., assignor.)
Loosli, Eugene, Ilion, N. Y. Electric plug. 1,917,803; July 11.
Lorensen, Henry, Crete, Ill. Window latch. 1,918,114; July 11.
Lott, Charles I., assignor of sixty per cent to W. G. Brown and W. W. Milliron, Du Bois, Pa. Roller bearing. 1,917,452; July 11.
Lovelace, Rhys J., and J. Thomas, assignors to Scottish Dyes Limited, Grangemouth, Scotland. Dyestuff intermediates of the benzoyl-benzoic acid series. 1,917,311; July 11.
Lowry, Earl M., assignor to Eastman Kodak Company, Rochester, N. Y. Automatic gloss meter. 1,917,379; July 11.
Lübecker Maschinenbau Gesellschaft. (See Dade, Reimar, assignor.)
Lucke, Charles E., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Water tube boiler. 1,917,533; July 11.
Luckey, George P., Lancaster, Pa. Altimeter temperature correction computer. 1,918,188; July 11.
Ludlow Manufacturing Associates. (See Hayes, Stuart J., assignor.)
Luft, John H., Providence, R. I. Flower holder. 1,918,115; July 11.
Lund, Adolf I., Oslo, Norway. List or fillet for crevices. 1,917,592; July 11.
Lyon, George A., Allenhurst, N. J. Making automobile buffers. 1,917,267; July 11.
Lyon Metal Products, Incorporated. (See Bales, James E., assignor.)
Lyon Metal Products, Incorporated. (See Bales, J. E., and Christensen, assignors.)
Lyons, Theodore E., Jeffersonville, Ind., assignor to American Car and Foundry Company, New York, N. Y. Industrial truck. 1,917,892; July 11.
Maas, Melvin J. (See Ermisch, Carl R., assignor.)
Mabee, Alexander C., Villa Park, assignor to Oakes Products Corporation, North Chicago, Ill. Lock structure. 1,917,593; July 11.
Mabee, Alexander C., Villa Park, assignor to Oakes Products Corporation, North Chicago, Ill. Lock structure. 1,917,656; July 11.
MacChesney, Chester M., and R. H. Norton, assignors to Acme Steel Company, Chicago, Ill. Galvanizing process and apparatus. 1,917,657; July 11.
MacCordy, Charles A., Syracuse, N. Y. Bottle cap retainer and making same. 1,917,946; July 11.
MacPherson, Earle S., assignor to Hupp Motor Car Corporation, Detroit, Mich. Chassis frame construction. 1,917,894; July 11.
Magnetic Analysis Corporation. (See Zuschlag, Theodor, assignor.)
Magoun, George L., Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Rubber vulcanization accelerator. 1,917,804; July 11.
Magyar Ruggyantaarugyar Reszvenytarsasag. (See Turchanyi, Ladislas, assignor.)
Maier, Karl, assignor to Union Special Maschinenfabrik, G. m. b. H., Stuttgart, Germany. Blind stitch sewing machine. 1,917,726; July 11.
Maine Seaboard Paper Company. (See Cram, Hervey G., assignor.)
Malm, Carl J., and J. D. Coleman, jr., assignors to Eastman Kodak Company, Rochester, N. Y. Making cellulose nitrate-acylate. 1,917,380; July 11.
Malm, Carl J., and C. L. Fletcher, assignors to Eastman Kodak Company, Rochester, N. Y. Preparation of cellulose nitrate-acylates. 1,917,381; July 11.
Maloon, Frederick V., assignor to James Sugden Company, Boston, Mass. Cable joint. 1,917,768; July 11.
Mancib, Alvin S., Somerville, assignor to Comstock & Wescott, Inc., Boston, Mass. Control apparatus. 1,917,893; July 11.
Mansfield, James T., Pittsburgh, Pa. Scaffolding. 1,918,116; July 11.
Marchand, Adolph, Jackson Heights, N. Y. Illuminated mirror cabinet. 1,918,047; July 11.
Marchese, John, and W. R. Eames, assignors to Guardets Inc., Portland, Oreg. Thermostatic control device. 1,917,658; July 11.
Marden, John W., and H. C. Rentschler, East Orange, N. J., ascignors to Westinghouse Lamp Company. Ultraviolet lamp. 1,917,848; July 11.
Margoluis, Mortimer H., Mamaroneck, N. Y. Tag. 1,917,989; July 11.
Marsh, Henry S., and C. W. Weesner, Youngstown, Ohio, assignors to Sharon Steel Hoop Company, Sharon, Pa. Making ferric sulphate. 1,917,945; July 11.
Marshall, Charles H., Erith, Kent, England. Endless conveyer. 1,917,659; July 11.
Marshall, Ira W., Pittsburgh, assignor to Blaw-Knox Company, Blawnox, Pa. Transmission tower. 1,917,594; July 11.
Martin, De Loss K., West Orange, N. J., assignor to American Telephone & Telegraph Company. Producing high voltage direct currents. 1,917,453; July 11.
Martin, Harold K., assignor to Corning Glass Works, Corning, N. Y. Preventing aqueous liquids from dripping from the lips of vessels. 1,918,117; July 11.
Martin, Jerome, and I. J. Krchma, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Separating and recovering acetic and butyric acids. 1,917,660; July 11.
Marvel Carburetor Company. (See Kirby, Charles H., assignor.)
Markman, Carl, Rochelle, Ill. Radiator cleaning machine. 1,918,043; July 11.
Marrocchi, Luigi, Milan, Italy. Automatic machine for filling and sealing ampules, phials, and the like vessels. 1,918,118; July 11.
Maske, Paul A., Grafton, Wis. Oil dispensing device. 1,918,049; July 11.
Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Refuse disposal truck. 1,917,382; July 11.
Mattern, Raymond P., Wauwatosa, assignor, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis. Manufacturing resistor units. 1,918,050; July 11.
Mattison, Edward H., Marshfield, Wis. Lamp reflector. 1,917,990; July 11.
Mayhew, Kenneth W., Angelica, and M. E. Holloway, assignors to F. E. Atkinson Spring Co., Hamburg, N. Y. Covering springs and the like. 1,918,189; July 11.
Maynard, John E., assignor to The Draper-Maynard Company, Plymouth, N. H. Inflatable ball. 1,917,534; July 11.
Maynard, John E., assignor to The Draper-Maynard Company, Plymouth, N. H. Inflatable ball. 1,917,535; July 11.
Mazzola, Lincoln C., Geneseo, N. Y. Moisture take-up for jellies and conserves. 1,917,454; July 11.
McArdle, Michael W., Chicago, Ill. Waffle griddle. 1,918,051; July 11.
McBride, Earl D., Oklahoma City, Okla. Adjustable fracture frame. 1,917,661; July 11.
McCarthy, Ralph, Elgin, Ill. Cleaner for furnaces, boilers, and the like. 1,917,383; July 11.
McCloskey, Gregory E., South Orange, N. J., assignor to The Barrett Company, New York, N. Y. Apparatus and process for cutting back pitch. 1,917,384; July 11.
McConnell, Elliott B. (See Burk, R. E., and McConnell.)
McCord Radiator & Mfg. Co. (See Bailey, Claude B., assignor.)
McCullough, Frederick S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vacuum tube filament structure. 1,917,991; July 11.
McCutchen, Brunson S. (See Frantz, S. G., McCutchen, and Roberts.)
McDermet, John R., assignor to Elliott Company, Jeannette, Pa. Heater. 1,917,595; July 11.
McDonald, Harry R., assignor to Hart Glass Manufacturing Company, Dunkirk, Ind. Jar or similar container. Des. 90,290; July 11.
McGlennon, Cornelius A., deceased, East Newark, N. J.; Harriet S. McGlennon, executrix. Marker attachment for typewriters. 1,917,727; July 11.
McGlennon, Harriet S., executrix. (See McGlennon, Cornelius A.)
McGrath, William H., Roselle Park, N. J., assignor to Standard Oil Development Company. Method and apparatus for condensing and purifying vapors aand gases. 1,917,895; July 11.
McIntire, Samuel, Newton, Kans. Threshing machine. 1,917,536; July 11.
McKean, John O., assignor to Foster Machine Company. Westfield, Mass. Traversing means for winding machines. 1,918,210; July 11.
McManus, Clarence A., Albany, N. Y. Catch basin trap. 1,917,80; July 11.
McNair, James S., Spokane, Wash., assignor to Reliance Packing & Manufacturing Co. Antifriction packing. 1,917,805; July 11.
McPheeters, Wilson L., North Hollywood, Calif. Anchor. 1,918,119; July 11.
Mead Research Engineering Company, The. (See Bachman, Carl O., assignor.)
Meiser, Wilhelm. (See Gassner, S., and Meiser.)
Meissner, Alexander, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Communication on short wave. 1,917,312; July 11.
Melcher, Lee W., Winnetka, Ill. Air cooler. 1,917,537; July 11.
Menne, Louis H., Quincy, Ill. Pipe joint. 1,917,992; July 11.
Mercury Manufacturing Company. (See Schroeder, William, assignor.)
Messing, Hjalmar S., Milwaukee, Wis., assignor to S Morgan Smith Company, York, Pa. Hydraulic turbine. 1,917,538; July 11.
Metropolitan Device Corporation. (See Murray, Thomas E., jr., assignor.)
Metropolitan Sewing Machine Corporation, The. (See Weis, Albert H., assignor.)
Metropolitan Sewing Machine Corporation. (See Wild, Laurent H., assignor.)
Meutsch, Charles C., Buffalo, N. Y. Spring suspension for chairs. 1,917,313; July 11.
Meyer, John F., Pasadena, Calif. Amusement machine. 1,917,385; July 11.
Meyer, John F., Pasadena, Calif. Amusement machine. 1,917,386; July 11.

Meyer, Otto, assignor to Firm; Armaturen- und Maschinenfabrik Akt. Ges., vorm. J. A. Hilpert, Nuremberg, Germany. Pressure fluid control valve. 1,917,455; July 11.
Meyers, Donald L. (See Demkier, L. A., and Meyers.)
Miadowics, Frank, deceased, Herman A. August, special administrator, assignor to James Morrow, Detroit, Mich. Supporting bracket. 1,918,120; July 11.
Michigan Steel Tube Products Company. (See Berg, Richard O., assignor.)
Mickelson, Alfred O., Oak Park, Ill., assignor, by mesne assignments, of one-half to Asphalt Process Corporation, New York, N. Y. Multiply fibrous structure. 1,917,456; July 11.
Midnight, Wilbur G. (See Chadwick, L. S., Resek, and Midnight.)
Miessner, Benjamin F., Short Hills, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Discharge tube cathode energizing. 1,917,728; July 11.
Miles, George W., Boston, Mass., assignor to Celanese Corporation of America. Conversion of cellulose. 1,917,539; July 11.
Miller, Arthur E. (See Ball, C. F., and Miller.)
Miller, Gideon B., jr., assignor to Stone Straw Corporation, Washington, D. C. Cut-off mechanism for tube machines. 1,917,806; July 11.
Miller, John H., Plymouth, and C. E. Fish, Argos, Ind. Swivel chair. 1,918,190; July 11.
Milliron, W. W., et al. (See Lott, Charles I., assignor.)
Miner, W. H., Inc. (See Dath, Charles E., assignor.)
Mirick, Carlos B., assignor to National Electric Supply Company, Washington, D. C. Multiple frequency receiving system. 1,917,268; July 11.
Mitchell, John E., Dallas, Tex. Cotton cleaning apparatus. 1,917,896; July 11.
Mitchell & Smith, Incorporated. (See Champney, Ralph P., assignor.)
Moir, William B., Pittsburgh, Pa. Railing for well-hole cars. 1,917,314; July 11.
Money, Roland H., assignor to The Crosley Radio Corporation, Cincinnati, Ohio. Refrigerator cabinet. Des. 90,291; July 11.
Monroe Calculating Machine Company. (See Walter, Edward C., assignor.)
Montgomery, George F., Washington, D. C. Attachment for reproducing machines. 1,917,269; July 11.
Moody, Ralph O. (See Jorgenson, A. E., and Moody.)
Mormser, Morton, et al. (See Ginsberg, Jacob, assignor.)
Morris, Fred C., San Francisco, Calif. Brake element. 1,917,993; July 11.
Morrow, James. (See Miadowics, Frank, assignor.)
Morse, Albert W., Forest Hills, N. Y. Gas burner. 1,917,897; July 11.
Moschel, Herman, assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Hay loader. 1,917,770; July 11.
Mulbern, William A., assignor to Chrysler Corporation, Detroit, Mich. Lubricant seal. 1,918,121; July 11.
Mullen, James T., assignor to The Dyment Company, Cleveland, Ohio. Tire stand. 1,917,596; July 11.
Müller, C. H. F. Aktiengesellschaft. (See Daumann, Karl W., assignor.)
Multigraph Company. (See Schults, August L., assignor.)
Murphy, Dorothy P., Babylon, N. Y. Composite fabric. Des. 90,292; July 11.
Murphy, Henry M., Fairfield, Ala. Open hearth furnace 1,917,807; July 11.
Muros, Joseph, Belmont, assignor to Gillette Safety Razor Company, Boston, Mass. Safety razor. 1,918,227; July 11.
Murray, Alexander, assignor to Eastman Kodak Company, Rochester, N. Y. Metal casting from gelatin reliefs. 1,917,387; July 11.
Murray, Thomas F., jr. (See Staud, C. J., and Murray.)
Murray, Thomas E., jr., Brooklyn, N. Y., assignor to Metropolitan Device Corporation. High tension fuse. 1,917,315; July 11.
Myers, Walter, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine. 1,917,771; July 11.
Naab, Julius, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Control valve. 1,917,316; July 11.
Nacey, Harry M., Chicago, Ill. Flow switch. 1,917,317; July 11.
Narrow Fabric Company. (See Knauer, Arthur, assignor.)
National Airoil Burner Company. (See Straitz, John F., assignor.)
National Aniline and Chemical Company. (See Kerr, Theresa S., assignor.)
National Cash Register Company. (See Brand, Samuel, assignor.)
National Cash Register Company, The. (See Shipley, Bernis M., assignor.)
National Electric Supply Company, (See Mirick, Carlos B., assignor.)
National Foam System, Inc. (See Boyd, Fisher L., assignor.)
National Lock Co. (See North, Edwin W. assignor.)
Naue, Richard J., Chicago, Ill. Mechanical toy. 1,918,122; July 11.
Neese, Elbert H., et al., executors. (See Aldrich, A., and Berry.)
Neese, Laura J. A., et al., executors. (See Aldrich, A., and Berry.)
Nelms, Joseph C., East Cleveland, assignor to The Ohio & Pennsylvania Coal Company, Cleveland, Ohio. Mining apparatus. 1,917,318; July 11.
Nelson, Andrew W., assignor to Columbian Enameling & Stamping Co., Terre Haute, Ind. Metal wall tile fastening. 1,917,388; July 11.
Nessler, Charles, Palisades, assignor to The Nestle-LeMur Company, New York, N. Y. Apparatus for testing hair. 1,917,597; July 11.
Nestle-LeMur Company, The. (See Nessler, Charles, assignors.)
New Departure Manufacturing Company. (See Large, Samuel R., assignor.)
New Products Corporation. (See Banker, Oscar H., assignor.)
Newman, Frank, Bronx, N. Y. Illuminating apparatus. 1,918,123; July 11.
Newmann, John, Brooklyn, assignor to C. G. Hensley, receiver, New York, N. Y. Radial motor. 1,917,772; July 11.
Nicolson, Alexander M., assignor to Communication Patents, Inc., New York, N. Y. Arc scanning facsimile system. 1,918,124; July 11.
Nier & Ebmer. (See Hansen, Friedrich C. H., assignor.)
Nineteen Hundred Corporation. (See Cole, Clifford E., assignor.)
Nitardy, Ferdinand W., Brooklyn, N. Y., and J. J. Enright and V. S. Wrenn, Pittsburgh, Pa., assignors to E. R. Squibb & Sons, New York, N. Y. Longevous cultures of aciduric bacteria. 1,918,042; July 11.
Nitardy, Ferdinand W., Brooklyn, N. Y., and J. J. Enright and V. S. Wrenn, Pittsburgh, Pa., assignors to E. R. Squibb & Sons, New York, N. Y. Longevous cultures of aciduric bacteria. 1,918,052; July 11.
Nitardy, Ferdinand W., Brooklyn, N. Y. J. J. Enright and V. S. Wrenn, Pittsburgh, Pa., assignors to E. R. Squibb & Sons, New York, N. Y. Longevous cultures of aciduric bacteria. 1,918,053; July 11.
Norstrom, Nils E., Chicago, Ill. Hair clipper. 1,917,668; July 11.
North American Car Corporation. (See Wood, Edward C., assignor.)
North, Edwin W., assignor to National Lock Co., Rockford, Ill. Furniture trimming. 1,917,319; July 11.
North, Edwin W., assignor to National Lock Co., Rockford, Ill. Furniture trimming. 1,917,320; July 11.
North, Edwin W., assignor to National Lock Co., Rockford, Ill. Hinge. 1,917,321; July 11.
Northcott, Robert A., Los Angeles, Calif. Shampoo lavatory. 1,917,773; July 11.
Northrup, Edwin F., Princeton, assignor to Ajax Electrothermic Corporation, Ajax Park, N. J. Refractory lining. 1,917,849; July 11.
Northwestern Barbwire Co. (See Dillon, Paul W., assignor.)
Norton, Ralph H. (See MacChesney, C. M., and Norton.)
Nukiyama, Heiichi, Sendai City, Japan, assignor to Western Electric Company, Incorporated, New York, N. Y. Amplifier-filter circuit. 1,917,947; July 11.
Oakes & Burger Co. Inc. (See Wolf, Frank F., assignor.)
Oakes Products Corporation. (See Gillen, George A., assignor.)
Oakes Products Corporation. (See Mabee, Alexander C., assignor.)
Oakes Products Corporation. (See Smith, Frederick A., assignor.)
Oakes Products Corporation. (See Van Sickel, Ernest J., assignor.)
O-Cedar Corp'n. (See Barton, Joseph W., assignor.)
O'Donnell, Claude, assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Operating tool. 1,917,878; July 11.
Ogg, William, and L. A. Stors, Worcester, Mass. Golf club and manufacture of the same. 1,917,774; July 11.
Ohio & Pennsylvania Coal Company, The. (See Nelms, Joseph C., assignor.)
Ohlis, Julius J. (See Old, James H., assignor.)
Oil Well Supply Company. (See Greve, Edgar E., assignor.)
Okauee Company, The. (See Ploen, Curtis W., assignor.)
Old, James H., Forest Park, assignor of one-half to J. J. Ohlis, Chicago, Ill. Floor light, vault light, and roof light construction. 1,917,808; July 11.
Olsen, Marlow W., Harlan, Iowa, and H. T. Baker, New Brunswick, N. J. Egg supporting and turning device during incubation. 1,917,389; July 11.
Olson, Charles A., Geneva, assignor to Crane Co., Chicago, Ill. Radiator with integral fins. 1,918,211; July 11.
Osip, Joseph, Northampton, and J. Kolemba, Mount Tom, Mass. Breech loading ordnance. 1,917,994; July 11.
Ostline, John E., Berwyn, assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 1,917,390; July 11.
Othmer, Donald F., assignor to Eastman Kodak Company, Rochester, N. Y. Dehydrating aqueous acetic acid. 1,917,391; July 11.
Otto, Arthur J., assignor to Johnson Service Company, Milwaukee, Wis. Thermometer. 1,917,457; July 11.
Pacine, August J., Chicago, Ill. Cascara sagrada. 1,917,598; July 11.
Packard Motor Car Company. (See Woolson, Lionel M., assignor.)

Pallisca, Matthew, Oaklyn, N. J. Submersible apparatus for the rescue of those entombed in sunken vessels. 1,917,850; July 11.

Palmer, Robert, Niskayana, N. Y., assignor to General Electric Company. Making hard metal compositions. 1,918,212; July 11.

Paper Patents Company. (See Germanson, R. C., and Kranhold, assignors.)

Parker, A. G., & Company. (See Hale, A. T. C., and Keeling, assignors.)

Parker, Arthur H. (See Sebell, Harry, assignor.)

Parker Pen Company, The. (See Wupper, Benjamin F., assignor.)

Parks, Ralph N., Charleston, W. Va., assignor to Columbia Oil and Gasoline Corporation, New York, N. Y. Recovery of natural gasoline. 1,917,899; July 11.

Parsons Company, The. (See De Wind, Norman, assignor.)

Paschke, Fritz, Cologne, and P. Fransen, Cologne-Nippes, assignors to the Firm Glanzstoff-Courtaulds G. m. b. H., Cologne-Merheim, Germany. Device for the treatment of artificial silk. 1,917,729; July 11.

Pascoe, William H., Chicago, Ill. Apparatus for burning fuel. 1,917,392; July 11.

Patco, Inc. (See de Ybarrondo, Vincent C., assignor.)

Patentaktiebolaget Grondal-Ramén. (See Lenander, Nils E., assignor.)

Paulding, John I., Inc. (See Johnson, Frank E., assignor.)

Paule, Mitchell M., Dallas, Tex. Dental instrument. 1,917,851; July 11.

Paulus, Charles L. (See Inglis, H. B., Paulus, and Kauch.)

Paulus, Charles L., and R. Kauch, Dayton, Ohio. Fire extinguisher. 1,918,191; July 11.

Pazandak, Louis A., assignor to J. L. Tucker, Minneapolis, Minn. Drawbar device for harrows. 1,918,213; July 11.

Pearsall, David E., Pittsburgh, Pa., assignor to The Ensign-Bickford Co., Simsbury, Conn. Plastic waterproof coating for blasting dynamite and the like. 1,917,640; July 11.

Pearson, William J. (See Elliott, Elmer C., assignor.)

Peebles, William O., Statesboro, Ga. Hat blocking and rebuilding machine. 1,918,192; July 11.

Pehrson, Adam H., Norrnas, Oscar Fredriksborg, Sweden. Electric furnace. 1,917,730; July 11.

Peirce, Charles L., jr., Pittsburgh, Pa., assignor of one-half to Hubbard and Company. Insulator support. 1,917,322; July 11.

Pender, L. Dow, jr. (See Pender, Lorenzo D., assignor.)

Pender, Lorenzo D., Raleigh, N. C., assignor to L. Dow Pender, jr., Tarboro, N. C. Brush killer. 1,917,731; July 11.

Pepper, Byron J., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind. Dispensing pump. 1,918,193; July 11.

Perfection Stove Company. (See Chadwick, L. S., Resek, and Midnight, assignors.)

Perrins, Newton M., assignor to Eastman Kodak Company, Rochester, N. Y. Reenforcing and protecting motion picture and sound film. 1,917,393; July 11.

Persky, Joseph, New York, N. Y. Textile fabric. Des. 90,293; July 11.

Persky, Joseph, New York, N. Y. Textile fabric. Des. 90,294; July 11.

Persky, Joseph, New York, N. Y. Textile fabric. Des. 90,295; July 11.

Persky, Joseph, New York, N. Y. Textile fabric. Des. 90,296; July 11.

Peters, John F., Leonia, N. J., assignor to American Can Company, New York, N. Y. Machine for forming metal bands. 1,917,270; July 11.

Petersime, Ray M., Gettysburg, Ohio. Brooder. 1,918,125; July 11.

Peterson, Harold O. (See Beverage, H. H., and Peterson.)

Peterson, Johann G., West Hartford, Conn. Electrical connecter. 1,918,126; July 11.

Petter, Guy B., Yeovil, assignor to Petters Limited, Yeovil, England. Calculating or adding machine. 1,917,782; July 11.

Petters Limited. (See Petter, Guy B., assignor.)

Petsnick, Frank F., et al. (See Wert, Charles M., assignor.)

Pfeiffer, Karl, Highland Park, assignor to Chrysler Corporation, Detroit, Mich. Frictional lining extruding apparatus and method. 1,918,127; July 11.

Pfening, Fred D., Company, The. (See Pfening, Frederic D. and H., jr., assignors.)

Pfening, Frederic D., and H. Pfening, jr., assignors to The Fred D. Pfening Company, Columbus, Ohio. Float controlled valve mechanism. 1,918,128; July 11.

Pfening, Henry, jr. (See Pfening, Frederic D. and H., jr.)

Pfluger, Ernst, Zurich, Switzerland. Coupling. 1,917,775; July 11.

Philipsen, Michael, Vedback, Denmark. Thermometer. 1,918,130; July 11.

Phillips, James E., New York, N. Y. Automatic stay for lock keepers. 1,918,129; July 11.

Phillips Petroleum Company. (See Crites, W. J., and Knowlton, assignors.)

Phinney, Edward D., Mount Vernon, N. Y. Container. 1,917,541; July 11.

Phoenix Glass Company, The. (See Stewart, Andrew H., assignor.)

Pidgeon, Charles S., Akron, Ohio. Door operating mechanism. 1,918,054; July 11.

Pier, Mathias, Heidelberg, R. Wietzel, and K. Winkler, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing oxygenated organic compounds. 1,917,323; July 11.

Pier, Mathias, Heidelberg, K. Winkler, and W. Simon, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J. Production of low boiling hydrocarbon products. 1,917,324; July 11.

Pippert, Willis J., Ridlonville, Me. Water marking device. 1,918,055; July 11.

Placco, Oscar, Cranston, R. I., assignor to Cohn & Rosenberger, Inc. Brooch assemblage. 1,917,325; July 11.

Place, Willard P., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Radio apparatus. 1,917,898; July 11.

Platt, John H., Evanston, assignor to Kraft-Phenix Cheese Corporation, Chicago, Ill. Display rack. 1,918,056; July 11.

Ploen, Curtis W., assignor to The Okadee Company, Chicago, Ill. Blow-off muffler. 1,917,542; July 11.

Plotkin, Oscar H., assignor to S. Dresner & Son, Inc., Chicago, Ill. Luggage. 1,917,458; July 11.

Podbielniak, Walter J., Tulsa, Okla. Analytical fractionating column. 1,917,272; July 11.

Polin, Herbert S., San Francisco, Calif., assignor to International Radiophone Corporation, Washington, D. C. Radio telephony. 1,917,995; July 11.

Porcelain Tile Corporation. (See Spencer, Herbert R., assignor.)

Porter, Howard C., La Grange Park, assignor to Signode Steel Strapping Company, Chicago, Ill. Gripper. 1,917,663; July 11.

Porzellanfabrik Kahla. (See Scheid, Johann F., assignor.)

Pospiech, Friedrich, assignor to Chemische Fabrik Pott & Company, Kommandit, Gesellschaft, Dresden, Germany. Increasing the wetting capacity of alkaline treatment liquids. 1,917,326; July 11.

Post, George V., Cincinnati, Ohio. Amusement device. 1,917,948; July 11.

Potter, Charles W., Waltham, assignor to Atlantic Register Company, Boston, Mass. Filing register. 1,918,194; July 11.

Potter, James G., Cambridge, Mass. Forming coatings of metal and product thereof. 1,917,271; July 11.

Presley, Della M., et al. (See Rennels, Jess L., assignor.)

Presley, James A., et al. (See Rennels, Jess L., assignor.)

Preston, Edward S., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Electric ventilating fan. 1,917,327; July 11.

Prez, Robert M., Lansing, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Snap fastener and fastener installation. 1,917,852; July 11.

Pres, Robert M., Lansing, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastener installation. 1,917,853; July 11.

Process Engineers, Inc. (See De Cew, Judson A., assignor.)

Prosperity Company, The. (See Davis, Ernest, assignor.)

Psikal, Emil, H., and W., Dorchester, Nebr. Lister marking attachment. 1,917,733; July 11.

Psikal, Henry. (See Psikal, Emil, H., and W.)

Psikal, William. (See Psikal, Emil, H., and W.)

Pugh, John V., Meriden, England. Freewheel cycle and braking mechanism therefor. 1,917,459; July 11.

Purdy, Emmett G., Detroit, Mich., assignor to Detroit Body Die Company. Motor vehicle. 1,917,460; July 11.

Pure Oil Company, The. (See Harnsberger, Audley E., assignor.)

Pure Oil Company, The. (See Wagner, Cary R., assignor.)

Putnam, James E., assignor to Waterbury Clock Company, Waterbury, Conn. Movement-plates for timepieces. 1,918,057; July 11.

Pyle-National Company, The. (See Wulle, William A., assignor.)

Pyratone Products Corporation. (See Barrett, Harold G., assignor.)

Radio Corporation of America. (See Beverage, H. H., and Peterson, assignors.)

Radio Corporation of America. (See Browne, Cecil O., assignor.)

Radio Corporation of America. (See Carter, Philip S., assignor.)

Radio Corporation of America. (See Dreyer, Harry W., assignor.)

Radio Corporation of America. (See Karolus, August, assignor.)

Radio Corporation of America. (See Kroger, Fred H., assignor.)

Radio Corporation of America. (See Miessner, Benjamin F., assignor.)

Radio Corporation of America. (See Roberts, Walter van B., assignor.)

Raisch, Charles F., assignor to Alemite Corporation, Chicago, Ill. Lubricating apparatus. 1,917,949; July 11.

Rankin, William A., Rock Island, assignor to Birtman Electric Company, Chicago, Ill. Electric heater. 1,917,461; July 11.

Ranstead, Guy S., Waukesha, Wis. Water cooler. 1,918,131; July 11.

Redman, Edward B., Berkeley, Calif. Glare shield for spectacles. 1,917,900; July 11.

Redmond, Albert G., Flint, Mich. Toy. 1,917,599; July 11.

Reed, William R. (See Britton, E. C., and Reed.)

Reese, Eva M., Canton, Ohio. Combination supporting garment. 1,917,543; July 11.

Reichart, James H., Muncie, Ind. Ash receiver. 1,918,058; July 11.

Reimann, Louis P., Buffalo, N. Y. Roof bracket or jack. 1,917,809; July 11.

Reliance Packing & Manufacturing Co. (See McNair, James S., assignor.)

Remington Typewriter Company. (See Walsoe, Sigurd L., assignor.)

Rennels, Fred, et al. (See Rennels, Jess L., assignor.)

Rennels, Jess L., Crowell, assignor of one-fourth to J. A. Presley, one-fourth to D. M. Presley, Vernon, and one-fourth to Fred Rennels, Crowell, Tex. Seed cotton unloading apparatus. 1,918,133; July 11.

Rentschler, Harvey C. (See Marden, J. W., and Rentschler.)

Rentschler, Harvey C., East Orange, N. J., assignor to Westinghouse Lamp Company. Photo-electric tube. 1,917,854; July 11.

Rentschler, Harvey C., East Orange, N. J., assignor to Westinghouse Lamp Company. Photo-electric tube. 1,917,855; July 11.

Resch, Tony, assignor of one-fourth to S. A. Frick, Rockwell City, Iowa. Closure packing. 1,918,134; July 11.

Resch, Tony, assignor of one-fourth to S. A. Frick, Rockwell City, Iowa. Article of manufacture. 1,918,135; July 11.

Resek, Marc. (See Chadwick, L. S., Resek, and Midnight.)

Rest, Sigmund, Chicago, Ill. Advertising device. 1,917,328; July 11.

Rewald, Bruno, Hamburg, Germany. Extracting oil from seeds. 1,917,734; July 11.

Reynolds, Marvin C., Chicago, Ill. Manufacturing margarine. 1,917,273; July 11.

Reynoldson, Roland G., Madison, Wis. System for indicating working conditions of condensers and the like. 1,917,810; July 11.

Rhea, Samuel, Mendota, Ill. Razor blade sharpener. 1,918,132; July 11.

Reinische Metallwaaren- und Maschinenfabrik. (See Rühlemann, Herbert, assignor.)

Rhodes, Fred D., New York, N. Y. Transmission line. 1,917,600; July 11.

Rice, Owen R. (See Whitcomb, A. J., Rice, and Callow.)

Richardson, Francis J., New Orleans, La. Rolling metal awning. 1,917,811; July 11.

Richardson, William F. (See Williams, N. E., Garrigues, and Richardson.)

Richmond, John E., Rochester, N. Y. Lamp shade and supporting the same. 1,917,544; July 11.

Richter, George A., assignor to Brown Company, Berlin, N. H. Combined acid and alkali process of fiber liberation. 1,917,545; July 11.

Ricks, Fred, and E. F. Townsdrow, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Device for applying abrasive tool covers. 1,917,329; July 11.

Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic shutter control. 1,917,330; July 11.

Riley Stoker Corporation. (See Krieger, Eugene, assignor.)

Rinne, John, Upper Darby, Pa., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler. 1,917,664; July 11.

Ripoll, Amadeo, Barcelona, Spain. Taximeter. 1,917,546; July 11.

Rising Sun Embroidery Works, Inc. (See Hahnel, Arthur P., assignor.)

Roberts, Luanna S., Torrance, Calif. Soap holder. 1,917,735; July 11.

Roberts, Walter van B. (See Frants, S. G., McCutchen, and Roberts.)

Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Frequency modulation. 1,917,394; July 11.

Robertson, Charles K., Edinburgh, Scotland. Filing cabinet. 1,918,195; July 11.

Robinson, Wallace W., Portland, Me. Finger-hold for safety razors. 1,917,812; July 11.

Roche, Henri, assignor to Societe Etablissements Edoux-Samin, Paris, France. Safety device for elevator driving means. 1,917,462; July 11.

Rogers, Foreman A., Auburn, Ala. Game board. Des. 90,297; July 11.

Rohling, John M., Plainfield, N. J., assignor to American Car and Foundry Company, New York, N. Y. Apparatus for welding. 1,917,901; July 11.

Rola Company, The. (See Engholm, Bernard A., assignor.)

Rood, Lynn C., J. F. Lane, and J. J. Frost, assignors to Charles Weinhagen & Company, St. Paul, Minn. Box making machine. 1,918,214; July 11.

Rook, James H. (See Budlong, Robert D., assignor.)

Rosenberg, Heyman, New York, N. Y. Apparatus for treating and handling work. 1,917,547; July 11.

Rosenberg, Heyman, New York, N. Y. Apparatus for treating articles of work. 1,918,136; July 11.

Rosenthal, August, assignor to Rosenthal Corn Husker Co., West Allis, Wis. Corn husker. 1,917,996; July 11.

Rosenthal Corn Husker Co. (See Rosenthal, August, assignor.)

Rossberg, Ehrhard. (See Kruhme, E., Jipp, and Rossberg.)

Rossetter, Charles F. (See Fullerton, J. B., and Rossetter.)

Rossman, Allen M., and H. C. Heaton, Chicago, Ill. Boiler. 1,917,275; July 11.

Rowe, Horace D., San Jose, Calif. Holding means for artificial dentures. 1,917,902; July 11.

Royal Typewriter Company. (See Degener, Gustave O., assignor.)

Royal Typewriter Company. (See Kittel, John J., assignor.)

Rubber Service Laboratories Company, The. (See Magoun, George L., assignor.)

Rühlemann, Herbert, Sommerda, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorff, Germany. Device for providing energy for electrical ignitors. 1,917,813; July 11.

Rühlemann, Herbert, Sommerda, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorff, Germany. Circuit connections for feeding energy to electric ignitors. 1,917,814; July 11.

Runge, Wilhelm, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany. Frequency determining means. 1,917,395; July 11.

Runnels, Paul, assignor, by mesne assignments, to Industrial Solvents, Inc., Indianapolis, Ind. Liquid container. 1,918,215; July 11.

Rush, Weaver A., Beatrice, Nebr. System of selective road illumination for automobiles. 1,917,665; July 11.

Russell, Leslie A., assignor to Koehring Company, Milwaukee, Wis. Welded dipper stick construction. 1,917,666; July 11.

Russell Manufacturing Company, The. (See Russell, Thomas M., assignor.)

Russell Supply Co. (See Johnson, C. B., and Bryant, assignors.)

Russell, Thomas M., assignor to The Russell Manufacturing Company, Middletown, Conn. Producing endless belts. 1,917,548; July 11.

Rutherford, Charles E., West Hartford, assignor to The Wiremold Company, Elmwood, Conn. Electrical conduit fitting. 1,917,950; July 11.

Sachs, Joseph, West Hartford, Conn. Automatic circuit breaker. Re18,894; July 11.

Sachtleber, Rudolph H., East Orange, N. J. Drafting apparatus. 1,918,216; July 11.

Saegebarth, Erich, Long Island City, N. Y., assignor to Edeleanu Gesellschaft, f. b. H. Purification of SO_2 recovered from refining hydrocarbons with SO_3. 1,917,736; July 11.

Safety Car Heating & Lighting Company, The. (See Von Ohlsen, L. H., and Godsey, assignors.)

Safety Car Heating & Lighting Company, The. (See Von Ohlsen, Louis H., and Godsey, jr., assignors.)

Sailer, Rudolph J., Townley, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Folder for sewing machines. 1,917,776; July 11.

Sallop, Harry A., New York, N. Y. Seat covering. 1,917,904; July 11.

Salsberg, Paul L., and E. W. Bousquet, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Fluosilicates of organic aliphatic bases. 1,917,463; July 11.

San Diego Consolidated Gas and Electric Company. (See Goldkamp, Otto B., assignor.)

Sanford Mills. (See Clark, Frank W., assignor.)

Sanford, Roy S., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,917,951; July 11.

Sargent, Charles R., Grand Rapids, Mich. Basket. 1,917,903; July 11.

Sargent, Edwin M. (See Gaede, J. E., and Sargent.)

Sargent & Greenleaf, Inc. (See Hill, Gerrit D., assignor.)

Sashoff, Stephan P., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric discharge device. 1,917,997; July 11.

Sauerman Bros., Inc. (See Dierks, Louis E., assignor.)

Saunders, Bertha, Hollywood, Calif. Hair waver. 1,917,549; July 11.

Saunders, Bertha, Hollywood, Calif. Hair waver. 1,917,550; July 11.

Säureschutz Gesellschaft m. b. H. (See Lebach, H., and Wirth, assignors.)

Saville, Willie, Liverpool, England, assignor to Associated Telephone and Telegraph Company, Chicago, Ill. Telephone system. 1,917,551; July 11.

Scarritt, Winthrop T., Utica, N. Y. Machine for manufacturing stiff spiral tubes. 1,918,137; July 11.

Schacht, William F., Huntington, Ind. Composite rubber sole and making same. 1,917,737; July 11.

Schackelford, George. (See Whitman, Stewart C., assignor.)

Schantz, Gordon M., and W. P. Diefenderfer, Allentown, Pa., assignors to International Motor Company, New York, N. Y. Tractor bus body. 1,917,396; July 11.

Scharnowski, Ernst, Gleiwitz, Germany. Color displaying device. 1,917,464; July 11.
Scheid Johann F., Hermsdorf in Thuringia, assignor to Porzellanfabrik Kahla, Kahla in Thuringia, Germany. Resistance body. 1,917,331; July 11.
Schellenbach, William L., Wyoming, Ohio. Machine tool feeding apparatus. 1,917,905; July 11.
Schermerhorn, George D., Reading, Mich. Cushion foot. 1,917,601; July 11.
Schimmel, Hans, Komotau, Czechoslovakia. Apparatus for machining rolls for rolling mills and the like. 1,918,138; July 11.
Schimmel, Hans, Komotau, Czechoslovakia. Method and apparatus for machining rolls for rolling mills. 1,918,139; July 11.
Schlagintweit, Friedrich, Baden-Baden, Germany. Apparatus for molding concrete and like plastic substances. 1,917,738; July 11.
Schluter, Ernst, Berlin-Johannisthal, Germany, assignor, by mesne assignments, to Keldur Corporation, Newark, N. J. Producing isolating plates for deadening noises and vibrations. 1,918,140; July 11.
Schmeller Holding Company. (See Schmeller, John, sr., assignor.)
Schmeller, John, sr., Lakewood, assignor to Schmeller Holding Company, Cleveland, Ohio. Apparatus for metal working. 1,917,856; July 11.
Schmidt, John H., Bloomfield, and R. S. Daniels, Newark, N. J., assignors to Bakelite Corporation, New York, N. Y. Molding mixture and preparing the same. 1,917,815; July 11.
Schneider, William G., Maumee, assignor to The Electric Auto-Lite Company, Toledo, Ohio. Dynamo-electric machine construction. 1,917,552; July 11.
Schoenberger, W. J., Company, The. (See Kindl, Joseph V., assignor.)
Scholes, Howard S. (See Wilmarth, Louis R., assignor.)
Scholtes, Albert J., Baltimore, Md. Hose union. 1,917,553; July 11.
Schroeder, William, assignor to Mercury Manufacturing Company, Chicago, Ill. Hydraulic lift for truck. 1,917,602; July 11.
Schröter, Fritz, Berlin, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Electric discharge device. 1,917,739; July 11.
Schultz, August L., Cleveland, Ohio, assignor to Multigraph Company, Wilmington, Del. Packing mechanism for type setting machines. 1,917,276; July 11.
Schultz, Paul L., assignor to The United States Air Compressor Company, Cleveland, Ohio. Display panel. 1,917,603; July 11.
Schutle, Louis, Brackenridge, Pa., assignor to Allegheny Steel Company. Mounting for band grinding devices. 1,917,906; July 11.
Schwarzmann, Wolfgang E., Longmeadow, assignor to United American Bosch Corporation, Springfield, Mass. Timer for airplane engines. 1,917,907; July 11.
Schweitzer, Eugen, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Process and apparatus for testing evacuated ampoules. 1,917,465; July 11.
Schweizer, Jack, assignor to William Wilhelm Co., Inc., New York, N. Y. Textile fabric or similar article. Des. 90,298; July 11.
Scofield & James. (See Kelly, Anna B. J., assignor.)
Scottish Dyes Limited. (See Loveluck, R. J., and Thomas, assignors.)
Scottish Dyes, Limited. (See Smith, W., and Thomas, assignors.)
Scott, William A., Lodi, Calif. Motor vehicle bed attachment. 1,917,777; July 11.
Scovill Manufacturing Company. (See Bennett, M. H., and Cowperthwait, assignors.)
Scranton, Charles J. jr., assignor to Avery Power Machinery Co., Peoria, Ill. Sickle guard and shield. 1,917,604; July 11.
Searle, Farrell G. (See Kronquest, A. L., and Searle.)
Searles, Alva L., Grand Rapids, Mich. Dust collector. 1,917,857; July 11.
Sebell, Harry, Boston, assignor of one-half to A. H. Parker, Lexington, Mass. Sealing a container. 1,918,196; July 11.
Sebell, Harry, Boston, assignor of one-half to Arthur H. Parker, Lexington, Mass. Apparatus for making can bodies. 1,918,197; July 11.
Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Protecting the sound track on sound motion picture film. 1,917,397; July 11.
Selden Company, The. (See Jaeger, Alphons O., assignor.)
Selden Company, The. (See Jewett, Joseph E., assignor.)
Selden Research & Engineering Corporation, The. (See Jaeger, Alphons O., assignor.)
Sharon Steel Hoop Company. (See Marsh, H. S., and Weesner, assignors.)
Sharples Solvents Corporation, The. (See Wilson, Melville M., assignor.)
Shaw Portis P., St. Louis, Mo. Lubricating device. 1,917,605; July 11.
Shearer, Ray R., Cleveland, Ohio. Article of furniture. 1,917,554; July 11.
Shell Development Company. (See De Ong, Elmer R., assignor.)
Sherman, Cortis F., Hartford, Conn. Dieing machine. 1,918,059; July 11.
Shipley, Bernis M., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,917,332; July 11.
Shober, George M., Ottumwa, Iowa. Crankless engine. 1,917,274; July 11.
Shuttleworth, Howard L., Amsterdam, N. Y. Finishing carpets. 1,917,555; July 11.
Sickels, Christie C., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Forging hollow working implements. 1,918,060; July 11.
Siemens & Halske, Aktiengesellschaft. (See Kirstaedter, Imfried, assignor.)
Siemens & Halske Aktiengesellschaft. (See Kruhme, E., Jipp, and Rossberg, assignors.)
Siemens & Halske Aktiengesellschaft. (See Leopold, Joachim, assignor.)
Siemens & Halske Aktiengesellschaft. (See Stich, Johannes, assignor.)
Signode Steel Strapping Company. (See Porter, Howard C., assignor.)
Sillers, Donald A., Dallas, Tex. Separator. 1,917,606; July 11.
Simjian, Luther G., New Haven, Conn. Negative-developing and printing device. 1,918,061; July 11.
Simmons, Byron L., Freewater, Oreg. Wheel hoe. 1,917,333; July 11.
Simon, Walter. (See Pier, M., Winkler, and Simon.)
Singer, Hanns, Berlin-Steglitz, Germany, assignor to General Electric Company. Indicating device. 1,918,068; July 11.
Singer Manufacturing Company, The. (See Eames, George M., assignor.)
Singer Manufacturing Company, The. (See Goosman, Herbert J., assignor.)
Singer Manufacturing Company, The. (See Myers, Walter, assignor.)
Singer Manufacturing Company, The. (See Sailer, Rudolph J., assignor.)
Singleton, Gray, Fort Meade, and R. P. Thornton, Lakeland, Fla. Fertilizer material and preparing the same. 1,918,233; July 11.
Skeats, Wilfred F. (See Turnpenny, W., and Skeats.)
Skinner, Alson R., Cox City, Okla. Power coupling device. 1,917,858; July 11.
Slagel, Franklin G., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Evaporator. 1,917,667; July 11.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Explosionproof motor. 1,917,607; July 11.
Small, Thomas W., Huntington, assignor to The Capehart Corporation, Fort Wayne, Ind. Automatic phonograph for nonuniform records. 1,918,062; July 11.
Smith, Burton E., Portland, Oreg. Doweling jig. 1,917,668; July 11.
Smith, Conway B., Portsmouth, Va. Equalizer for vehicle springs. 1,918,141; July 11.
Smith, Frederick K., assignor to Oakes Products Corporation, North Chicago, Ill. Automobile lock. 1,917,608; July 11.
Smith, Frederick A., assignor to Oakes Products Corporation, North Chicago, Ill. Lock structure. 1,917,609; July 11.
Smith, Loyd A., assignor to Truline, Incorporated, La Grange, Ga. Tufting machine. 1,917,384; July 11.
Smith, Nelson K., assignor to Byron Jackson Co., Los Angeles, Calif. Elevator. 1,917,669; July 11.
Smith, Purnell W., Philadelphia, Pa. Exercising device. 1,918,142; July 11.
Smith, Richard B., San Francisco, Calif. Key ejecting mechanism. 1,917,778; July 11.
Smith, S. Morgan, Company. (See Messing, Hjalmar S., assignor.)
Smith, Theodore L., assignor to Caille Motor Company, Detroit, Mich. Propeller. 1,917,610; July 11.
Smith, William, and J. Thomas, assignors to Scottish Dyes, Limited, Grangemouth, Scotland. Compounds of the amino-halo-indanthrene series and making them. 1,917,466; July 11.
Smith, William A., jr. (See Smith, William A., sr., and W. A., jr.)
Smith, William A., sr., Easton, Pa., and W. A. Smith, jr., Phillipsburg, assignors to Ingersoll-Rand Company, Jersey City, N. J. Rock drilling mechanism. 1,917,335; July 11.
Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company. Blank cartridge. 1,917,998; July 11.
Snyder, Ward H., assignor of one-third to F. F. Farkas, and one-third to E. N. Farkas, Chicago, Ill. Adjustment indicating mechanism for cameras. 1,918,143; July 11.
Societe Etablissements Edoux-Samain. (See Roche, Henri, assignor.)
Societe Francoise Radio Electrique. (See Borias, Paul, assignor.)
Societe of Chemical Industry in Basle. (See Straub, F., and Brunner, assignors.)
Söderlund, Olof, Clapham Park, assignor to Techno-Chemical Laboratories, Limited, London, England. Drying of young grass, fodder, and the like. 1,917,467; July 11.

Soreng, Edgar M., assignor to Soreng-Manegold Company, Chicago, Ill. Ash tray. Des. 90,299; July 11.
Soreng, Edgar M., assignor to Soreng-Manegold Company, Chicago, Ill. Cigar and cigarette lighter. Des. 90,300; July 11.
Soreng-Manegold Company. (See Soreng, Edgar M., assignor.)
Soss, Mark, Spokane, Wash. Combination mowing and cultivating machine. 1,917,556; July 11.
Southwark Foundry & Machine Company. (See Dinsl, Richard W., assignor.)
Spear, Charles M., New Carlisle, Ind. Brake. 1,917,999; July 11.
Spears, William H. D., Walnut Creek, Calif. Valve. 1,917,816; July 11.
Spencer, Herbert R., Erie, Pa., assignor to Porcelain Tile Corporation, Metal tile wall structure. 1,918,228; July 11.
Sperry Gyroscope Company. (See Carlson, Bert G., assignor.)
Sperry Gyroscope Company. (See Howell, Edward D., assignor.)
Sperry, Samuel E., Hollis, assignor to Intertype Corporation, Brooklyn, N. Y. Automatic ejector selecting mechanism for typographical machines. 1,918,000; July 11.
Spiller, Clare D., Philadelphia, Pa. Closure for collapsible tubes. 1,917,670; July 11.
Spitz, Karl, Vienna, Austria. Turn-up-table. 1,917,336; July 11.
Squibb, E. R. & Sons. (See Nitardy, F. W., Enright, and Wrenn, assignors.)
Stacy, Leland J., Caldwell, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,917,859; July 11.
Stahl, Rodolphe, Detroit, Mich. Brake. 1,917,671; July 11.
Standard- I. G. Company. (See Pier, M., Winkler, and Simon, assignors.)
Standard Mailing Machines Company. (See Storck, Frederick W., assignor.)
Standard Oil Company, The. (See Burk, R. E., and McConnell, assignors.)
Standard Oil Company. (See Sullivan, F. W., jr., and Adams, assignors.)
Standard Oil Development Company. (See Bird, John C., assignor.)
Standard Oil Development Company. (See Davis, Garland H. B., assignor.)
Standard Oil Development Company. (See McGrath, William H., assignor.)
Standard Sanitary Manufacturing Company. (See Woolfolk, Arthur P., assignor.)
Standish, John F., Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Holder for heel-portions. 1,917,837; July 11.
Stanley Works, The. (See Grobstein, J. J., and Crum, assignors.)
Stanley Works, The. (See Stowell, Austin L., assignor.)
Starr, Charles E., Whittier, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Vehicle testing apparatus. 1,918,063; July 11.
Starr, George B., San Francisco, Calif. Projector apparatus. 1,917,611; July 11.
Staten Island Shipbuilding Co. (See Denslow, Albert C., assignor.)
Staud, Cyril J. (See Webber, C. S., and Staud.)
Staud, Cyril J., and T. F. Murray, jr., assignors to Eastman Kodak Company, Rochester, N. Y. Production of low viscosity cellulose derivatives. 1,917,398; July 11.
Staud, Cyril J., Rochester, N. Y., and C. E. Waring, Dayton, Ohio, assignors to Eastman Kodak Company, Rochester, N. Y. Preparation of homogeneous mixtures of cellulose nitrate and acetate. 1,917,399; July 11.
Staud, Cyril J., and J. T. Fuess, assignors to Eastman Kodak Company, Rochester, N. Y. Nitration of cellulose with a nitrogen oxide. 1,917,400; July 11.
Staud, Cyril J., and R. H. Van Dyke, assignors to Eastman Kodak Company, Rochester, N. Y. Preparation of acetone-soluble fibrous nitroacylate. 1,917,401; July 11.
Steiger, Clarence C., Jefferson City, Mo. Wheel chair. 1,917,557; July 11.
Stein, Leonhard. (See Bockmühl, M., Ehrhart, and Stein.)
Steiner, Amos P., H. E. Balsiger, and E. P. Wine, assignors to Landis Tool Company, Waynesboro, Pa. Ball race grinder. 1,917,468; July 11.
Stern, Charles, Jersey City, assignor to Ardco Manufacturing Company, Hoboken, N. J. Lubricator supply tank. 1,918,145; July 11.
Stern, Charles, Jersey City, assignor to Ardco Manufacturing Company, Hoboken, N. J. Rail and wheel flange lubricator. 1,918,146; July 11.
Stern, Charles, Jersey City, N. J., D. W. Davis, Sayre, Pa., and H. C. Gillespie, Huntington, W. Va., assignors to Ardco Manufacturing Company, Hoboken, N. J. Rail flange lubricator. 1,918,144; July 11.
Stevenson, Lomas O., Staatsburg, N. Y. Moisture proof cigarette package. 1,917,402; July 11.
Stewart, Andrew H., Shields, assignor to The Phoenix Glass Company, Monaca, Pa. Sign globe. 1,917,672; July 11
Stich, Johannes, Berlin-Siemensstadt, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt near Berlin, Germany. Repeater. 1,917,408; July 11.
Stock, Raymond G. (See King, L., and Stock.)
Stolz, Catherine, Dayton, Ohio. Lady's undergarment. 1,917,908; July 11.
Stone, Herbert G., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Neutralisation of pyroligneous acid. 1,917,338; July 11.
Stone, Morris, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Measuring apparatus. 1,918,001; July 11.
Stone Straw Corporation. (See Miller, Gideon B., jr., assignor.)
Stone, Thomas E., jr. (See Deisch, Noel, assignor.)
Storck, Frederick W., Somerville, assignor to Standard Mailing Machines Company, Everett, Mass. Copy-holder. 1,918,217; July 11.
Storz, Leon A. (See Ogg, W., and Storz.)
Stowell, Austin L., assignor to The Stanley Works, New Britain, Conn. Scraper. 1,917,779; July 11.
Stowell, Byron F., assignor to Van Norman Machine Tool Company, Springfield, Mass. Carriage positioning mechanism for grinding machines. 1,918,147; July 11.
Straits, John F., Philadelphia, Pa., assignor to National Airoil Burner Company, Incorporated. Char retort. 1,917,389; July 11.
Strand, Carl E., East Cleveland, Ohio. Door stabilising catch. 1,917,740; July 11.
Straub, Fritz, and E. Brunner, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Chromiferous azo-dyestuffs and making same. 1,918,002; July 11.
Straubel, Walter E. F. (See Boquist, E. O., and Straubel.)
Strickland, Frederick E., Alexandria, La. Cotter pin lock. 1,918,148; July 11.
Stroh, Rudolf. (See Kunz, M. A., Stroh, and Dimroth.)
Stryker, Harold V., Brooklyn, N. Y. Electrical plug. 1,917,909; July 11.
Suda, Joseph. (See Kalert, F. N., and Suda.)
Sugden, James, Company. (See Maloon, Frederick V., assignor.)
Sullivan, Frederick W., jr., and C. E. Adams, Hammond Ind., assignors to Standard Oil Company, Chicago, Ill. Antisolvent dewaxing of oil. 1,917,910; July 11.
Sullivan, Jerome J., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Sound transmitting and sound absorbing construction. 1,918,149; July 11.
Sullivan Machinery Company. (See Hauge, Andrew, assignor.)
Sun Bath Company. (See Collins, Berry, assignor.)
Sundback, Gideon, assignor to Hookless Fastener Company, Meadville, Pa. Separable fastener. 1,918,229; July 11.
Sutcliffe, Arthur G., assignor to Ilg Electric Ventilating Company, Chicago, Ill. Damping device for shutters. 1,917,340; July 11.
Swannberg, Gunnar, and E. J. Kingsbury, assignors to Kingsbury Machine Tool Corporation, Keene, N. H. Multiple head automatic drilling machine. 1,918,150; July 11.
Sweeny, Frank C., assignor to The Willys Overland Co., Toledo, Ohio. Accelerator pedal. 1,918,218; July 11.
Swindler, Harry M., Dayton, assignor to The James Leffel & Company, Springfield, Ohio. Stoker. 1,917,404; July 11.
Symmes, Whitman, San Francisco, Calif. Lighting fixture. 1,917,612; July 11.
Szumkowski, Alkons J., Chicago, Ill. Swimming device. 1,917,613; July 11.
Takechi, Shojiro, Osaka, Japan. Concrete piling. Re18,893; July 11.
Tanner, Arnold J., North Haven, Conn., assignor to Elnson-Freeman Co., Inc. Packing and display container. 1,917,741; July 11.
Tapp, Ernest T. J., and P. J. R. Tapp, London, England. Self-propelled road vehicle. 1,917,469; July 11.
Tapp, Percy J. R. (See Tapp, Ernest T. J., and P. J. R.)
Taylor, Cyrus, Hartford, Conn., and E. Z. Taylor, Newark, N. J. Manufacture of containers of paper or like material, and lids or covers therefor. 1,917,558; July 11.
Taylor, Elmer Z. (See Taylor, Cyrus, and E. Z.)
Taylor, Ernest R., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose ester composition. 1,917,405; July 11.
Taylor, George F., Niskayuna, N. Y., assignor to General Electric Company. Making strong, thin, cemented carbide disks. 1,918,064; July 11.
Taylor, Howard D., assignor to Flexible Truck Corporation, Reading, Pa. Brake mechanism. 1,917,842; July 11.
Taylor, Robert B., Kapa, Territory of Hawaii. Machine and method for removing dents from filled cans. 1,918,004; July 11.
Taylor, Robert B., and L. L. Guinn, Kapa, Territory of Hawaii. Platform for lift trucks. 1,918,003; July 11.
Taylor-Wharton Iron and Steel Company. (See Hanks, George R., assignor.)
Techno-Chemical Laboratories, Limited. (See Söderlund, Olof, assignor.)
Telefonaktiebolaget L. M. Ericsson. (See Ell, Bernhard S. F., assignor.)

Telefonaktiebolaget L. M. Ericsson. (See Kvaal, Albert, assignor.)
Telefonaktiebolaget L. M. Ericsson. (See Wiberg, Helge A., assignor.)
Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H. (See Buschbeck, Werner, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Meissner, Alexander, assignor.)
Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H. (See Runge, Wilhelm, assignor.)
Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H. (See von Korshenewsky, Nicolai, assignor.)
Teletype Corporation. (See Carr, John O., assignor.)
Teletype Corporation. (See Jaquith, Lucie F., assignor.)
Teletype Corporation. (See Krum, Howard L., assignor.)
Terry, Edward F., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. 1,918,065; July 11.
Test, Skiles E., Indianapolis, Ind. Apparatus for warming and cleaning artificial pools. 1,917,614; July 11.
Texas Gulf Sulphur Company. (See Bencowitz, Isaac, assignor.)
Thau, Charles K., Brooklyn, N. Y. Hair curler. 1,917,341; July 11.
Thelen, Otto H. L. (See Bartels, R. B., and Thelen.)
Thiemann, William B., Albert City, Iowa. Scraper attachment for tractor wheels. 1,917,673; July 11.
Thomas, George J., Detroit, Mich., assignor to Bendix Brake Company, South Bend, Ind. Brake shoe. 1,917,911; July 11.
Thomas, Henry M. (See Lee, M. D., and Thomas.)
Thomas, John. (See Loveluck, R. J., and Thomas.)
Thomas, John. (See Smith, W., and Thomas.)
Thompson, Albert C. (See Almquist, M. L., and Thompson.)
Thompson, Ernest H., Winnetka, assignor to Johnson Fare Box Company, Chicago, Ill. Fare collection apparatus. 1,917,615; July 11.
Thompson, Fred C., Detroit, Mich., assignor, by mesne assignments, to Automotive Research Corporation. Change speed transmission. 1,917,343; July 11.
Thompson, James S., New Rochelle, N. Y., assignor to Firebar Corporation, Cleveland, Ohio. Grate bar. 1,917,559; July 11.
Thompson, John K. (See Childers, Earl C., assignor.)
Thompson Products, Incorporated. (See Crawford, F. C., and Hufferd, assignors.)
Thornton, Robert P. (See Singleton, G., and Thornton.)
Tigges, Herbert L., assignor to Baker Brothers, Inc., Toledo, Ohio. Machine tool. 1,917,616; July 11.
Timken-Detroit Axle Company, The. (See Brackett, Tracy F., assignor.)
Timmons, Edwin S., Chicago, Ill. Vehicle light director. 1,917,560; July 11.
Tinsley, William B., Pampa, Tex. Flexible joint packing box. 1,917,742; July 11.
Titus, Robert N., assignor to Eastman Kodak Company, Rochester, N. Y. Visibly marked photographic film. 1,917,406; July 11.
Tobin, James H., assignor to Tobin Tool & Die Company, Inc., Fond du Lac, Wis. Refrigerator trap. 1,917,344; July 11.
Tobin Tool & Die Company. (See Tobin, James H., assignor.)
Tokheim Oil Tank and Pump Company. (See Pepper, Byron J., assignor.)
Törnebohm, Hilding Y., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Gauging mechanism for internal grinders. 1,918,198; July 11.
Towndrow, Edward F. (See Ricks, F., and Towndrow.)
Trescott, John B., Overland, assignor, by mesne assignments, to J. R. Kearney Corporation, St. Louis, Mo. Fuse and expelling fuse wire therefrom. 1,917,781; July 11.
Trescott, John B., Overland, and Samuel S. Baker, Webster Groves, assignors, by mesne assignments, to James R. Kearney Corporation, St. Louis, Mo. Fuse switch. 1,917,780; July 11.
Trevaskis, Henry. (See Goodyear, E. F., Wright, and Trevaskis.)
Tröger, Richard, Berlin-Zehlendorf, Germany, assignor to General Electric Company. System of distribution. 1,918,066; July 11.
Trojan Powder Company. (See Snelling, Walter O., assignor.)
Truline, Incorporated. (See Smith, Loyd A., assignor.)
Tucker, James L. (See Pazandak, Louis A., assignor.)
Tucker, Milton F., Providence, R. I., assignor to Eastman Kodak Company, Rochester, N. Y. Electrical fuse plug. 1,917,407; July 11.
Turchanyi, Ladislas, Sashalom, near Budapest, assignor to Magyar Ruggyantaarugyar Reszvenytarsasag, Budapest, Hungary. Toy. Des. 90,301; July 11.
Turner, Carl D., Indianapolis, Ind., assignor to The H. T. H. Corporation, Cincinnati, Ohio. Engine starter control. 1,917,617; July 11.
Turner, Wellmore B., et al., executors. (See Weston, Edward B., assignor.)
Turnpenny, William, Albany, and W. F. Skeats, Scotia, N. Y., assignors to General Electric Company. Electric circuit breaker. 1,918,151; July 11.
Tuttle, Fordyce, assignor to Eastman Kodak Company, Rochester, N. Y. Film gate for motion picture apparatus. 1,917,408; July 11.
Twyman, B., Wickliffe, South Bend, Ind. Brake testing apparatus. 1,918,219; July 11.
U S L Battery Corporation. (See Kyle, George L., assignor.)
Uden, Jacob T., New York, N. Y. Shoe dressing machine. 1,917,470; July 11.
Uden, Jacob T., New York, N. Y. Shoe shining machine. 1,917,471; July 11.
Ulrich, Henry A., Los Angeles, Calif. Steam boiler. 1,917,617; July 11.
Underwood Elliott Fisher Company. (See Kuronski, A. G. F., assignor.)
Union Asbestos & Rubber Company. (See Gillies, William R., assignor.)
Union Special Maschinenfabrik, G. m. b. H. (See Maier, Karl, assignor.)
Union Switch & Signal Company, The. (See Place, Willard P., assignor.)
Union Special Machine Company. (See Hacklander, H., and Zeier, assignors.)
United American Bosch Corporation. (See Beeh, Louis, assignor.)
United American Bosch Corporation. (See Schwarzmann, Wolfgang E., assignor.)
United-Carr Fastener Corporation. (See Carr, Moses F., assignor.)
United-Carr Fastener Corporation. (See Prez, Robert M., assignor.)
United Engineers & Constructors Inc. (See Haug, John S., assignor.)
United Metal Box Co. Inc. (See Hammer, Samuel, assignor.)
United Shoe Machinery Corporation. (See Hope, Ernest, assignor.)
United Shoe Machinery Corporation. (See Ricks, F., and Towndrow, assignors.)
United Shoe Machinery Corporation. (See Standish, John F., assignor.)
United States Air Compressor Company, The. (See Schultz, Paul I., assignor.)
United Verde Copper Company. (See Baum, Kenneth M., assignor.)
Universal Form Clamp Co. (See Lampert, Lydia, assignor.)
Uppercu-Burnelli Corporation. (See Burnelli, Vincent J., assignor.)
Urban, Charles C., Indianapolis, Ind. Mortising tool. 1,918,067; July 11.
Urquhart, Kenneth M., Norfolk, Va. Bubble cap. 1,918,005; July 11.
Usener, John F., jr. (See Usener, John F., sr., and J. F., jr.)
Usener, John F., sr., and J. F. Usener, jr., Houston, Tex. Automatic power factor control for synchronous motor generators. 1,917,618; July 11.
Utkov, Aldo. (See Jensen, C. L. E., Utkov, and Warming.)
Utterback, Fred C., Arlington Heights, and G. W. Warrick, Harvey, Ill. Automatic gas shut-off valve. 1,917,619; July 11.
Vachon, Lewis W., assignor to P. E. Holt, Stockton, Calif. Lawn mower. 1,917,782; July 11.
Vallone, Charles, assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Tool-holder or tool set. 1,917,409; July 11.
Van Dorn Electric Tool Company. (See Connell, Edwin L., assignor.)
Van Dyke, Russel H. (See Staud, C. J., and Van Dyke.)
Van Kannel Revolving Door Company. (See Blanchard, Robert L., assignor.)
Van Norman Machine Tool Company. (See Stowell, Byron F., assignor.)
Van Sickel, Ernest J., Waukegan, assignor to Oakes Products Corporation, North Chicago, Ill. Lock structure. 1,917,620; July 11.
Vedoe, Anton M., Wollaston, assignor to Vedoe-Peterson Co., Norfolk Downs, Mass. Oven regulator. 1,917,345; July 11.
Vedoe, Anton M., Quincy, and C. Elbye, Boston, assignors to Vedoe-Peterson Co., Norfolk Downs, Mass. Automatic gas cotnroller for ovens. 1,917,346; July 11.
Vedoe-Peterson Co. (See Vedoe, Anton M., assignor.)
Vedoe-Peterson Co. (See Vedoe, A. M., and Elbye, assignors.)
Vereinigte Stahlwerke Aktiengesellschaft. (See Klinkenberg, Adolf, assignor.)
Vereinigte Stahlwerke Aktiengesellschaft. (See Kocks, Fritz, assignor.)
Vereinigte Stahlwerke Aktiengesellschaft. (See Koster, Werner ,assignor.)
Viall, George K., assignor to Chain Belt Company, Milwaukee, Wis. Strain equaliser for multiple cables. 1,918,220; July 11.
Viard, Georges, Paris, France. Telecommunication system. 1,918,152; July 11.
Vickers, Harry F., Los Angeles, Calif. Construction for rotary type cylinder and piston mechanism. 1,917,788; July 11.
Volpicelli, Vito L., Scranton, Pa. Aeroplane. 1,917,561; July 11.
Von Astholz, Mel, and T. Concha, deceased, Los Angeles, Calif., F. Bryson, public administrator of said T. Concha, assignor to said Mel von Astholz. Shoe tree. 1,917,347; July 11.

Von Becker, Reinhold, Darmstadt, Germany, and Jesdimir Djordjevitch, Paris, France. Carburetor. 1,917,562; July 11.
Von Delwig, Carl. (See Kalling, B. M. S., and Von Delwig.)
Von Korshenewsky, Nicolai, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany. Antenna. 1,917,348; July 11.
Von Ohlsen, Louis H., and F. W. Godsey, jr., New Haven, Conn., assignors to The Safety Car Heating & Lighting Company. System and apparatus for regulation. 1,917,472; July 11.
Von Ohlsen, Louis H., and F. W. Godsey, jr., New Haven, Conn., assignors to The Safety Car Heating & Lighting Company. System and apparatus for regulation. 1,917,473; July 11.
Von Ohlsen, Louis H., and F. W. Godsey, jr., New Haven, Conn., assignors to The Safety Car Heating & Lighting Company. System and apparatus for regulation. 1,917,474; July 11.
Waco Aircraft Company, The. (See Arcier, A. F., and Gibson, assignors.)
Wade, Wallace G. (See Freeman, H. M., and Wade.)
Wadsworth, George E., Erlanger, Ky., assignor to The Earl Electric Mfg. Company, Cincinnati, Ohio. Electrical fuse plug support. 1,917,860; July 11.
Wadsworth, George E., Erlanger, Ky., assignor to The Earl Electric Mfg. Company, Cincinnati, Ohio. Fuse mounting block. 1,917,861; July 11.
Wadsworth, George E., Erlanger, Ky., assignor to The Earl Electric Mfg. Company, Cincinnati, Ohio. Fuse mounting block. 1,917,862; July 11.
Wagner, Cary R., assignor to The Pure Oil Company, Chicago, Ill. Extracting hydrogen sulphide from refinery gases. 1,918,153; July 11.
Wahl, Ottmar, Leverkusen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Preparing basic dyestuffs derived from indoliene bases. 1,917,475; July 11.
Waldock, Dominic L. (See Irons, A. D., and Waldock.)
Walker, Albert D., Middleboro, Mass. Die for making ice bags, etc. 1,917,743; July 11.
Walker, Charles, Knoxville, Tenn. Vending machine. 1,918,154; July 11.
Wallace, Allen, Moorestown, N. J. Centering bearing. 1,918,156; July 11.
Wallace, Edwin C., Newton, assignor to Warren Brothers Company, Cambridge, Mass. Road surfacing. 1,918,155; July 11.
Wallace, Sadye E., Brooklyn, N. Y. Fountain brush. 1,918,069; July 11.
Wallgren, August G. F., and C. G. Janson, assignor to Aktiebolaget Nomy, Stockholm, Sweden. Bearing. 1,917,277; July 11.
Walsoe, Sigurd L., Springdale, Conn., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,917,784; July 11.
Walter, Edward C., assignor to Monroe Calculating Machine Company, Orange, N. J. Full cycle locating mechanism. 1,917,476; July 11.
Walters, Herbert H., Syracuse, N. Y. Breaker point grinder. 1,917,863; July 11.
Walton, George M., assignor to Air Mase Corporation, Cleveland, Ohio. Air cleaner. 1,918,006; July 11.
Ward, Ernest A., Beaumont, Calif. Transmission. 1,917,477; July 11.
Ward, Harley M., Scarsdale, assigner to The Western Union Telegraph Company, New York, N. Y. Electric switch. 1,918,190; July 11.
Waring, Charles E. (See Staud, C. J., and Waring.)
Warming, Kai. (See Jensen, C. L. E., Utkov, and Warming.)
Warren Brothers Company. (See Wallace, Edwin C., assignor.)
Warrick, George W. (See Utterback, F. C., and Warrick.)
Waterbury Clock Company. (See Putnam, James R., assignor.)
Watkins, James R., assignor, by mesne assignments, to Chicago, Mill and Lumber Company, Chicago, Ill. Packing device. 1,918,157; July 11.
Watts, Noble H., Oakland, Calif., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Electrical cord terminal. 1,918,070; July 11.
Watts, Noble H., Oakland, Calif., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Cord terminal. 1,918,071; July 11.
Watts, William S., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,917,864; July 11.
Weaver, Lester C., Stockton, Calif. Water, dirt, and oil tight disk assembly. 1,917,674; July 11.
Webb, Nelson W., assignor to Eastwood Wire Corporation, Belleville, N. J. Machine for working wire cloth. 1,917,624; July 11.
Webber, Charles S., and C. J. Staud, assignors to Eastman Godak Company, Rochester, N. Y. Dehydration of acetic acid. 1,917,410; July 11.
Weber, Anton, and L. Weber, Kreiznach, Germany. Tractor. 1,918,221; July 11.
Weber, Ludwig. (See Weber, Anton and L.)
Weber, William W., Seattle, Wash. Truck mounted elevator. 1,917,621; July 11.
Weed, Harry D., Southport, Conn. Tread member for tire chains. 1,917,744; July 11.
Weems, Philip V., U. S. Navy. Line of position and wind drift plotter. 1,917,278; July 11.
Weesner, Carl W. (See Marsh, H. S., and Weesner.)
Wegner, Emma. (See Wegner, Walter E., assignor.)
Wegner, Walter E., assignor of one-half to E. Wegner, Denver, Colo. Doorstop. 1,918,072; July 11.
Welchelt, Carl L., assignor to Wirt Company, Philadelphia, Pa. Adjustable resistance device. 1,917,675; July 11.
Weinhagen, Charles, & Company. (See Rood, L. C., Lane, and Frost, assignors.)
Weinmayr, Viktor M. (See Adams, R., Johnson, and Weinmayr.)
Wels, Albert H., assignor to The Metropolitan Sewing Machine Corporation, Nyack, N. Y. Automatic thread clamp for needle threads. 1,917,411; July 11.
Welsberg & Greenwald, Inc. (See Welsberg, L., and Greenwald, assignors.)
Welsberg, Louis, and W. F. Greenwald, assignors to Welsberg & Greenwald, Inc., New York, N. Y. Coloring hair. 1,918,158; July 11.
Welsberg, Louis, and W. F. Greenwald, assignors to Welsberg & Greenwald, Inc., New York, N. Y. Electrodeposition. 1,918,159; July 11.
Welsberg, Louis, and W. F. Greenwald, assignors to Welsberg & Greenwald, Inc., New York, N. Y. Producing synthetic resins and products thereof. 1,918,222; July 11.
Weiss, Frank L., New York, N. Y. Electric connecter. 1,917,745; July 11.
Werner, Vernon S., Morris, Ill. Cigarette container, igniter, and ejector. 1,917,563; July 11.
Werner, Wilbur S., assignor to The Kelley-Koett Manufacturing Company, Covington, Ky. Radiographic apparatus. 1,917,625; July 11.
Wert, Charles M., Cleveland, assignor of one-third to F. F. Petsnick, Cleveland Heights, and one-third to C. H. Dray, Lakewood, Ohio. Dual-ratio mechanism for automobiles. 1,918,200; July 11.
Wertheim, Hugo, Vienna, Austria. Process for the simultaneous production of butyl alcohol and acetone by fermentation. 1,917,676; July 11.
Wertheim, Hugo, Vienna, Austria. Producing butyl alcohol and acetone by fermentation. 1,917,677; July 11.
West, Ernest, assignor to West's Gas Improvement Company, Limited, Manchester, England. Vertical gas retort and coke extractor therefor. 1,917,746; July 11.
West, Robert N., Maplewood, N. J. Pad for ironing machines, etc. 1,918,230; July 11.
West's Gas Improvement Company. (See West, Ernest, assignor.)
Western Electric Company. (See Nukiyama, Heiichi, assignor.)
Western Union Telegraph Company, The. (See Ward, Harley M., assignor.)
Western Union Telegraph Company, The. (See Wise, Raleigh J., assignor.)
Westinghouse Electric and Manufacturing Company. (See Baker, B. P., and Brainard, assignors.)
Westinghouse Electric and Manufacturing Company. (See Freeman, H. M., and Wade, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hague, Floyd T., assignor.)
Westinghouse Electric & Manufacturing Company. (See McCullough, Frederick S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sashoff, Stephan P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Stone, Morris, assignor.)
Westinghouse Lamp Company. (See Marden, J. W., and Rentschler, assignors.)
Westinghouse Lamp Company. (See Rentschler, Harvey C., assignor.)
Weston, Edward B., deceased, Dayton, Ohio; Wellmore B. Turner and W. G. Clark, executors. Display rack. 1,917,564; July 11.
Wheat, Grant, assignor to Koehler Manufacturing Company, Marlboro, Mass. Mine lamp. 1,918,223; July 11.
Wheeler, Elizabeth. (See Wheeler, Harley T., assignor.)
Wheeler, Harley T., assignor to E. Wheeler, Dallas, Tex. Adjustable positive-measuring pump. 1,917,678; July 11.
Wheeling Steel Corporation. (See Bedell, Carl E., assignor.)
Whitcomb, Arthur J., O. R. Rice, and O. C. Callow, assignors to Freyn Engineering Company, Chicago, Ill. Combined charging and indicating system. 1,917,478; July 11.
White, Jay E., assignor to Chrysler Corporation, Detroit, Mich. Radio control apparatus. 1,918,160; July 11.
White, Rollin H., Shaker Heights, Ohio. Fuel injector nozzle. 1,918,201; July 11.
Whitehurst, John L. (See Hamlet, Willard, assignor.)
Whitley, Harvey L., Fremont, N. C. Telephone lineman's test set. 1,917,479; July 11.
Whitman, Stewart C., assignor of one-half to G. Shackelford, New York, N. Y. Sound recording and producing method. 1,917,279; July 11.
Whitman, Stewart C., assignor of one-half to G. Shackelford, New York, N. Y. Method for recording sound employing a separate source of electrical energy. 1,917,280; July 11.
Whitwam, Wallace W., Houston, Tex. Wild well control. 1,918,161; July 11.

Wiberg, Helge A., Falun, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Circuit arrangement for the registration of electric impulses. 1,917,679; July 11.

Wilding, Emma, Portland, Oreg. Dispensing container for sliced bread and the like. 1,917,480; July 11.

Wiehagen, Carl, Solingen, Wald, Germany. Wood drill with cutter transversely adjustable in the drill shank. 1,918,202; July 11.

Wiesel, Rudolf. (See Pier, M., Wietzel, and Winkler.)

Wiggins, John H., Tulsa, Okla. Gas or liquid storage device. 1,917,622; July 11.

Wiggins, John H., Tulsa, Okla. Storage tank for volatile gases and liquids. 1,917,623; July 11.

Wild, Laurent H., Audubon, N. J., assignor to The Metropolitan Sewing Machine Corporation, Nyack, N. Y. Stitch. 1,917,412; July 11.

Wildin, George W., Pittsburgh, Pa., assignor, by mesne assignments, to Cardwell Westinghouse Company, Chicago, Ill. Friction draft rigging. 1,917,626; July 11.

Wildt and Company Limited. (See Holmes, Henry H., assignor.)

Wilhelm, William Co. Inc. (See Gottesman, Joseph M., assignor.)

Wilhelm, William, Co., Inc. (See Libert, Marcel, assignor.)

Wilhelm, William, Co. Inc. (See Schweizer, Jack, assignor.)

Williams, H. E., Products Company. (See Williams, H. E., Garrigues, and Richardson, assignors.)

Williams, Harold E., H. L. Garrigues, and W. F. Richardson, assignors to H. E. Williams Products Company, Carthage, Mo. Window screen. 1,918,073; July 11.

Williams Products, Inc. (See Williams, William J., assignor.)

Williams, William J., assignor to Williams Products, Inc., Chicago, Ill. Producing an electric current. 1,917,565; July 11.

Willoughly, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Tank anchor for tank cars. 1,917,912; July 11.

Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Multiunit tank car. 1,917,913; July 11.

Willson, Edwin L., Glenside, assignor to The Lehigh Coal and Navigation Company, Philadelphia, Pa. Carbonizing briquettes. 1,918,162; July 11.

Willys-Overland Co., The. (See Hunt, Warren T., assignor.)

Willys-Overland Co., The. (See Sweeny, Frank C., assignor.)

Wilmarth, Louis R., Attleboro, Mass., assignor to Howard S. Scholes, Edgewood, R. I. Display box. 1,917,349; July 11.

Wilson, Melville M., Chicago, Ill., assignor to The Sharples Solvent Corporation, Philadelphia, Pa. Paint and varnish remover. 1,918,224; July 11.

Wine, Edgar P. (See Steiner, A. P., Balsiger, and Wine.)

Wine, William E., Toledo, Ohio. Hopper car construction. 1,917,785; July 11.

Winkler, Karl. (See Pier, M., Wietzel, and Winkler.)

Winkler, Karl. (See Pier, M., Winkler, and Simon.)

Winthrop Chemical Company, Inc. (See Bockmühl, M., Ehrhard, and Stein, assignors.)

Wiremold Company, The. (See Rutherford, Charles E., assignor.)

Wirt Company. (See Weichelt, Carl L., assignor.)

Wirth, Johann K. (See Lebach, H., and Wirth.)

Wirth, Johann K., Berlin-Wilmersdorf, Germany. Manufacturing chemical resisting articles. 1,917,418; July 11.

Wise, Raleigh J., Plainfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Speed governor for alternating current motors. 1,918,203; July 11.

Witt, Dietrich, Karlshorst, Germany. Process for the manufacture of a carbon dioxide manure. 1,917,680; July 11.

Wohlenhaus, Emil, Welcome, Minn. Liquid clutch. 1,918,163; July 11.

Wolf, Frank F., assignor to Oakes & Burger Co. Inc., Cattaraugus, N. Y. Machine for cleaning cans. 1,917,850; July 11.

Wolfram, Arthur, Frankfort-on-the-Main-Rodel-Heim, and E. Hausdörfer, Hotheim-in-Taunus, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Preparing diphthaloylnaphthalene compounds and new compounds obtainable thereby. 1,917,414; July 11.

Wood, David W., Brazil, Ind. Keeper. 1,918,165; July 11.

Wood, Edward C., Evanston, assignor to North American Car Corporation, Chicago, Ill. Refrigerating apparatus for railway cars. 1,917,865; July 11.

Wood, Edward C., Highland Park, assignor to North American Car Corporation, Chicago, Ill. Refrigerator car. 1,917,866; July 11.

Wood, Robert A., Chicago, Ill. Exercising bell. 1,917,566; July 11.

Wood, Russell A., Cambridge, Mass. Pen holder ink font. 1,917,281; July 11.

Woodruff, Carl, San Francisco, Calif. Elevator door. 1,917,415; July 11.

Woodruff, Graham C., Bronxville, N. Y., assignor to The L. C. L. Corporation. Bottom lift container. 1,918,007; July 11.

Woodside, Elmer L., U. S. Navy. Navigational instrument. 1,917,282; July 11.

Woodworth, Selim E., assignor to Hamilton, Beauchamp & Woodworth, San Francisco, Calif. Valve for rotary filters. 1,917,818; July 11.

Woolf, William L., and L. B. Cornwell, New York, N. Y. Acoustic device. 1,918,164; July 11.

Woolfolk, Arthur P., Pittsburgh, Pa., assignor to Standard Sanitary Manufacturing Company. Sink for kitchen cabinets. 1,918,074; July 11.

Woolson, Emma F., executrix. (See Woolson, Lionel M.)

Woolson, Harry T., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Transmission. 1,918,166; July 11.

Woolson, Harry T., assignor to Chrysler Corporation, Detroit, Mich. Transmission case construction. 1,918,167; July 11.

Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal combustion engine. 1,918,075; July 11.

Woolson, Lionel M., deceased, Detroit, by E. F. Woolson, executrix, Bloomfield Village, assignor to Packard Motor Car Company, Detroit, Mich. Internal combustion engine. 1,918,076; July 11.

Worrell, Robert C., Chester, Pa. Combination air diffuser and damper. 1,918,008; July 11.

Wozar, Frank, New York, N. Y. Adjustable brush holder. 1,917,747; July 11.

Wrenn, Vincent S. (See Nitardy, F. W., Enright, and Wrenn.)

Wright, Joseph. (See Goodyear, E. F., Wright, and Trevaskis.)

Wroten, John F., Baltimore, Md. Manufacturing yeast. 1,917,283; July 11.

Wulff, Robert G., Los Angeles, Calif. Producing acetylene gas. 1,917,627; July 11.

Wulle, William A., assignor to The Pyle-National Company, Chicago, Ill. Safety switch. 1,917,567; July 11.

Wupper, Benjamin F., Chicago, Ill., assignor, by mesne assignments, to The Parker Pen Company, Janesville, Wis. Fountain pen. 1,917,568; July 11.

Yeschick, Alex R., Brownton, Minn. Switch. 1,917,786; July 11.

Young, Harry C., Wooster, Ohio. Colloidal, hydrophilic sulphur. 1,917,351; July 11.

Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Sheet metal container. 1,917,284; July 11.

Zaremba Company. (See Hughes, Burton S., Eggert, and S. Hughes, assignors.)

Zeier, Frederick F. (See Hacklander, H., and Zeier.)

Zimmerman, Ervin H. (See Hill, T., and Zimmerman.)

Zinnamon, William W., Tulsa, Okla. Carburetor. 1,918,168; July 11.

Zingg, William W., Chicago, Ill., assignor to The Columbia Mills, Inc., Saginaw, Mich. Universal center support for Venetian blind head rails. 1,917,416; July 11.

Zuschlag, Theodor, West Englewood, N. J., assignor to Magnetic Analysis Corporation, Long Island City, N. Y. Method and apparatus for measuring alternating electromotive forces and impedances. 1,917,417; July 11.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 11TH DAY OF JULY, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Absorbent container. J. C. Davis. 1,917,953; July 11.

Accelerator, Rubber vulcanization. G. L. Magoun. 1,917,804; July 11.

Acetylene gas, Producing. R. G. Wulff. 1,917,627; July 11.

Acid: *See*—
Aliphatic carboxylic acid. New-ortho-aniline sulphon-
Acetic acid. ic acid.

Acid and alkali process of fiber liberation, Combined. G. A. Richter. 1,917,545; July 11.

Acid, Dehydrating aqueous acetic. D. F. Othmer. 1,917,391; July 11.

Acid, Dehydration of acetic. C. S. Webber and C. J. S. Staud. 1,917,410; July 11.

Acid, Neutralization of pyroligneous. H. G. Stone. 1,917,338; July 11.

Acids, Separating and recovering acetic and butyric. J. Martin and I. J. Krchma. 1,917,660; July 11.

Acoustic device. W. L. Woolf and L. B. Cornwell. 1,918,164; July 11.

Advertising device. S. Rest. 1,917,328; July 11.

Aerial sign. W. C. Keener. 1,917,978; July 11.

Aeroplane. V. L. Volpicelli. 1,917,561; July 11.

Aeroship, Three-hulled. S. E. Hitt. 1,917,446; July 11.

Agitator for washing machines. P. E. Barker. 1,917,867; July 11.

Air cleaner. G. M. Walton. 1,918,006; July 11.

Air cleaning apparatus. A. Lesage. 1,917,310; July 11.

Air cooler. L. W. Melcher. 1,917,537; July 11.

Aircraft. A. F. Arcier and R. W. Gibson. 1,918,079; July 11.

Air diffuser and damper, Combination. R. C. Worrell. 1,918,008; July 11.

Air flow with automatic pressure regulation. E. Davis. 1,917,862; July 11.

Air speed annunciator. J. E. Eshbaugh. 1,917,959; July 11.

Aircraft. H. J. Alderson. 1,918,204; July 11.

Aircraft. V. J. Burnelli. 1,917,428; July 11.

Aircraft engine. G. M. Bellanca. 1,917,791; July 11.

Aircraft of the rotative-blade type. A. E. Larsen. 1,917,530; July 11.

Aircraft wheel brake system. E. F. Goodyear, J. Wright, and H. Trevaskis. 1,917,933; July 11.

Alcohol and acetone by fermentation, Producing butyl. H. Wertheim. 1,917,077; July 11.

Alcohol and acetone by fermentation, Simultaneous production of butyl. H. Wertheim. 1,917,676; July 11.

Alcohol esters of aliphatic carboxylic acids, Polyhydric. R. Adams. 1,917,681; July 11.

Aliphatic bases, Fluosilicates of organic. P. L. Salzberg and E. W. Bousquet. 1,917,463; July 11.

Alloys capable of being forged and hardened, Production of. W. Köster. 1,917,728; July 11.

Alloys of aluminium and iron, Making or remelting. J. W. Bampfylde. 1,918,011; July 11.

Amusement device. G. V. Post. 1,917,948; July 11.

Ammoniacal compound to be used in the textile industry. F. Hoelkeskamp. 1,917,265; July 11.

Ammonium sulphate, Producing. C. G. Atwater. 1,917,915; July 11.

Amplifier, Capacity controlled. C. D. Barbulesco and P. S. Edwards. 1,917,237; July 11.

Amplifier, Multistage. P. Borlas. 1,917,426; July 11.

Amplifier power supply. I. Kirkstaedter. 1,917,722; July 11.

Ampoules, Process and apparatus for testing evacuated. E. Schweitzer. 1,917,465; July 11.

Amusement machine. J. F. Meyer. 1,917,385–6; July 11.

Anchor. W. L. McPheeters. 1,918,119; July 11.

Angle marking means. E. P. Cressler. 1,917,433; July 11.

Antenna. N. von Korshenewsky. 1,917,348; July 11.

Antenna system, Rotatable. P. S. Carter. 1,918,180; July 11.

Antiglare device. L. H. King and R. G. Stock. 1,917,799; July 11.

Apparatus for controlling load distribution. E. D. Doyle. 1,918,021; July 11.

Apparatus for delivering pulverized material. W. D. Cloos. 1,917,827; July 11.

Apparatus for recording sound. O. M. Dunning. 1,917,880; July 11.

Apparatus for welding. J. M. Robling. 1,917,901; July 11.

Aqueous liquids from dripping from the lips of vessels, Preventing. H. K. Martin. 1,918,117; July 11.

Armature coil. V. G. Apple. 1,917,482; July 11.

Arms, Back sight for small. A. T. C. Hale and E. Keeling. 1,917,645; July 11.

Article of manufacture. T. Resch. 1,918,135; July 11.

Articles, Making rubber-fiber. B. Dewey. 1,917,755; July 11.

Articles of nonglazed porcelain especially suitable for cooling use, Proceeding for burning in piles the. G. Fuschl. 1,917,964; July 11.

Ash receiver. J. H. Reichart. 1,918,058; July 11.

Ash tray. E. M. Soreng. Des. 90,299; July 11.

Automatic signal device. E. H. Chesnutt. 1,918,281; July 11.

Automobile lock. F. A. Smith. 1,917,608; July 11.

Awning, Rolling metal. F. J. Richardson. 1,917,811; July 11.

Azo dyes, Direct-developed. E. F. Grether. 1,917,835; July 11.

Azodyestuff. S. Gassner and W. Meiser. 1,917,443; July 11.

Azo-dyestuffs and making same, Chromiferous. F. Straub and E. Brunner. 1,918,002; July 11.

Bag: *See*—
Paper bag.

Ball frame for shaker chutes. A. W. Clarke. 1,917,923; July 11.

Ball, Inflatable. J. E. Maynard. 1,917,534–5; July 11.

Bank, Bill. M. Goepel. 1,917,517; July 11.

Bar chair, Individual. L. Lampert. 1,917,529; July 11.

Barge. R. Dade. 1,917,434; July 11.

Basket. C. R. Sargent. 1,917,903; July 11.

Bath apparatus, Collapsible sun. B. Collins. 1,917,498; July 11.

Bathroom unit, Combination. R. D. Budlong. Des. 90,279; July 11.

Battery: *See*—
Storage battery.

Bearing: *See*—
Roller bearing.

Bearing. A. G. F. Wallgren and C. G. Janson. 1,917,277; July 11.

Bearing and guard therefor. S. R. Large. 1,917,988; July 11.

Bearing and seal, Antifriction. S. R. Large. 1,917,987; July 11.

Bearing, Centering. A. Wallace. 1,918,156; July 11.

Bearing material, Making. J. Kirner. 1,918,187; July 11.

Beat-up mechanism for braiding machines. S. B. Blaisdell. 1,918,175; July 11.

Bed, Concealed. E. Cocks. 1,918,085; July 11.

Bell, Exercising. R. A. Wood. 1,917,566; July 11.

Belts, Mechanism and method for cementing double leather. W. S. Griffith. 1,917,296; July 11.

Belts, Producing endless. T. M. Russell. 1,917,548; July 11.

Beverage cooling apparatus. A. C. Denslow. 1,917,927; July 11.

Binding, Wrinkle proof rug edge reenforcing. H. Borden. 1,917,425; July 11.

Blades, Producing beveled. W. H. Bailey. 1,917,353; July 11.

Blast furnace. F. C. Greene. 1,917,968; July 11.

Block: *See*—
Fuse mounting block.

Board, Producing cork. R. P. Champney. 1,917,361; July 11.

Boat. H. W. Hall. 1,917,367; July 11.

Body, Vehicle. W. A. Burns. 1,917,824; July 11.

Boiler: *See*—
Steam boiler. Water tube boiler.

Boiler. J. Rinne. 1,917,664; July 11.

Boiler. A. M. Rossman and H. C. Heaton. 1,917,275; July 11.

Bomb, Aerial. G. H. Hedrick. 1,917,263; July 11.

Boric acid, Manufacture of. A. Kelly. 1,918,110; July 11.

Bottle cap retainer and making same. C. A. MacCordy. 1,917,946; July 11.

Bottle filling and capping machine, Combined. J. Grandinetti. 1,917,796; July 11.

Bottom lift container. G. C. Woodruff. 1,918,007; July 11.

Bowls, Arrangement in connection with centrifugal. N. E. Bergner. 1,917,422; July 11.

Box: *See*—
Change speed gear box. Journal box.
Display box. Razor blade box.
Flexible joint packing box

Box and making the same, Paper. C. L. Claff. 1,917,496; July 11.

Box for electric cables, Sleeve terminal. W. W. Emmons. 1,917,242; July 11.

Box making machine. L. C. Rood, J. F. Lane, and J. J. Frost. 1,918,214; July 11.

Box support, Outlet. W. L. Lademann. 1,917,450; July 11.
Bracket: *See*—
Supporting bracket.
Bracket or jack, Roof. L. P. Reimann. 1,917,809; July 11.
Brake. R. S. Sanford. 1,917,951; July 11.
Brake. C. M. Spear. 1,917,999; July 11.
Brake. R. Stahl. 1,917,671; July 11.
Brake. W. S. Watts. 1,917,864; July 11.
Brake element. F. C. Morris. 1,917,993; July 11.
Brake mechanism. H. D. Taylor. 1,917,342; July 11.
Brake member. T. F. Brackett. 1,917,820; July 11.
Brake operating mechanism. A. Y. Dodge. 1,917,928; July 11.
Brake rigging. W. H. Baselt. 1,917,354; July 11.
Brake shoe. G. J. Thomas. 1,917,911; July 11.
Brake shoe burnisher. A. Y. Dodge. 1,918,020; July 11.
Brake testing machine. J. B. Fullerton and C. F. Rossetter. 1,918,026; July 11.
Brake valve. F. P. Frankford. 1,918,025; July 11.
Breech loading ordnance. J. Osip and J. Kolemba. 1,917,994; July 11.
Briquettes, Carbonizing. E. L. Willson. 1,918,162; July 11.
Bromine from dilute saline solutions, Extracting. J. J. Grebe, R. H. Boundy, and L. C. Chamberlain. 1,917,762; July 11.
Brooch assemblage. O. Placco. 1,917,325; July 11.
Brooder. R. M. Petersime. 1,918,125; July 11.
Brush, Fountain. S. E. Wallace. 1,918,069; July 11.
Brush holder, Adjustable. F. Wosar. 1,917,747; July 11.
Brush killer. L. D. Pender. 1,917,731; July 11.
Brush, Shaving. J. M. Henriquez. 1,918,101; July 11.
Buffers, Making automobile. G. A. Lyon. 1,917,287; July 11.
Burner: *See*—
Gas burner. Sulphur burner.
Cabinet, A. E. Fohn. 1,917,363; July 11.
Cabinet and lamp, Combined radio. J. J. Herlihy. 1,917,798; July 11.
Cabinet, Collapsible bath. C. H. Anderson. 1,917,629; July 11.
Cabinet, Filing. C. K. Robertson. 1,918,195; July 11.
Cabinet, Illuminated mirror. A. Marchand. 1,918,047; July 11.
Cabinet, Provision. J. Kamil. 1,917,721; July 11.
Cabinet, Teletypewriter. E. A. Bescherer. Des. 90,278; July 11.
Cable joint. F. V. Maloon. 1,917,768; July 11.
Cable or strand guiding mechanism. E. E. Fairbanks. 1,917,640; July 11.
Calculating or adding machine. G. B. Petter. 1,917,732; July 11.
Cam mechanism, Adjustable. N. Delsch. 1,917,435; July 11.
Camera focusing mechanism. C. R. Ermesch. 1,918,206; July 11.
Camera, Photographic folding. E. Farkas. 1,917,578; July 11.
Cameras, Adjusting indicating mechanism for. W. H. Snyder. 1,918,143; July 11.
Can bodies, Apparatus for making. H. Sebell. 1,918,197; July 11.
Can making machine. W. Cameron. 1,917,359; July 11.
Candle holder. C. E. Haley. 1,918,098; July 11.
Cap, Bubble. K. M. Urquhart. 1,918,005; July 11.
Capstan. F. Belt. 1,917,691; July 11.
Car apparatus, Control monorail. C. S. Haddlesay. 1,917,836; July 11.
Car door, Vestibule. J. F. Birt. 1,917,871; July 11.
Car, Multiunit tank. V. Willoughby. 1,917,913; July 11.
Car, Railway. W. F. Dietrichson. 1,917,877; July 11.
Car, Refrigerator. E. C. Wood. 1,917,866; July 11.
Carbon disulphide, Apparatus for the production of. T. Griswold, jr. 1,918,083; July 11.
Carburetor. R. Von Becker and J. Djordjevitch. 1,917,562; July 11.
Carburetor. W. W. Zinnamon. 1,918,168; July 11.
Carburetor primer. C. H. Kirby. 1,917,591; July 11.
Carpet joint and uniting strip therefor. F. W. Clark. 1,917,430; July 11.
Carpets, Finishing. H. L. Shuttleworth. 1,917,555; July 11.
Carriage positioning mechanism for grinding machines. B. F. Stowell. 1,918,147; July 11.
Carton. G. F. Hogan. 1,917,886; July 11.
Carton, Fireboard shipping. E. S. Gomes. Re18,892; July 11.
Carton for baby chicks. I. A. Deline. 1,917,506; July 11.
Cartridge, Blank. W. O. Snelling. 1,917,998; July 11.
Cascara sagrada. A. J. Pacine. 1,917,598; July 11.
Casing for concrete construction, Tiltable. F. Eiler. 1,918,182; July 11.
Casings, Apparatus for retreading tire. P. E. Hawkinson. 1,917,262; July 11.
Casings, Retreading tire. P. E. Hawkinson. 1,917,261; July 11.
Casting float. S. Green. 1,917,967; July 11.
Casting machine, Centrifugal. D. J. Campbell. 1,917,872; July 11.
Catalytic converter. A. O. Jaeger. 1,917,716; July 11.
Catalytic oxidation of ammonia. A. O. Jaeger. 1,918,038; July 11.
Catalytic oxidation of gases, Apparatus for use in the. A. P. Beardsley. 1,918,080; July 11.
Catamenial belt. A. B. J. Kelly. 1,917,979; June 11.
Catch basin trap. C. A. McManus. 1,917,805; July 11.
Catch, Door stabilizing. C. E. Strand. 1,917,740; July 11.
Cathode energizing, Discharge tube. B. F. Miessner. 1,917,728; July 11.
Cellulose, Conversion of. G. W. Miles. 1,917,539; July 11.
Cellulose derivatives, Production of low viscosity. C. J. Staud and T. F. Murray, jr. 1,917,398; July 11.
Cellulose ester composition. E. R. Taylor. 1,917,405; July 11.
Cellulose fibres, Hydrating. J. A. De Cew. 1,917,505; July 11.
Cellulose nitrate-acylate, Making. C. J. Malm and J. D. Coleman, jr. 1,917,380; July 11.
Cellulose nitrate and acetate, Preparation of homogeneous mixtures of. C. J. Staud and C. E. Waring. 1,917,399; July 11.
Cellulose nitrate-acylate, Preparation of. C. J. Malm and C. L. Fletcher. 1,917,381; July 11.
Cellulose with a nitrogen oxide, Nitration of. C. J. Staud and J. T. Fuess. 1,917,400; July 11.
Ceramic ware treatment method and apparatus. C. L. Colbert. 1,917,924; July 11.
Chair: *See*—
Individual bar chair. Wheel chair.
Swivel chair.
Chair. J. H. Kellogg. 1,917,264; July 11.
Chair, Swivel. J. H. Miller and C. E. Fish. 1,918,190; July 11.
Charging and indicating system, Combined. A. J. Whitcomb, O. R. Rice, and O. C. Callow. 1,917,478; July 11.
Chassis for automobiles, Auxiliary. W. L. Forrest. 1,917,962; July 11.
Chassis frame construction. E. S. MacPherson. 1,917,894; July 11.
Chemical resisting articles, Manufacturing. J. K. Wirth. 1,917,413; July 11.
Chest for foodstuffs, Cooling. J. Loeb. 1,918,046; July 11.
Chimney heater. M. Leonard. 1,917,802; July 11.
Cigar and cigarette lighter. E. M. Soreng. Des. 90,300; July 11.
Cigarette container, igniter, and ejector. V. S. Werner. 1,917,563; July 11.
Cigarette dispenser and igniter. H. R. Davidson. 1,917,952; July 11.
Cigarette package, Moisture proof. L. O. Stevenson. 1,917,402; July 11.
Circuit, Amplifier-filter. H. Nukiyama. 1,917,947; July 11.
Circuit arrangement for the registration of electric impulses. H. A. Wiberg. 1,917,679; July 11.
Circuit arrangement, Tube transmitter. W. Buschbeck. 1,917,697; July 11.
Circuit breaker, Automatic. J. Sachs. Re18,894; July 11.
Circuit breaker, Electric. W. Turnpenny and W. F. Skeats. 1,918,151; July 11.
Circuit closer. J., L. V., and J. B., Anderson. 1,917,481; July 11.
Circuit connection for feeding energy to electric ignitors. H. Rühlemann. 1,917,814; July 11.
Circuit controller. R. W. Goff. 1,918,030; July 11.
Circuit, Electric delay. M. L. Almquist and A. C. Thompson. 1,917,418; July 11.
Circuit interrupter. B. P. Baker and M. W. Brainard. 1,918,232; July 11.
Circuits, Four wire. L. Espenschied. 1,917,960; July 11.
Circuits, Phase shifting. B. D. Bedford. 1,918,173; July 11.
Clamp for needle threads, Automatic thread. A. H. Weis. 1,917,411; July 11.
Clamping clip. I. Leiter, née Koch. 1,917,877; July 11.
Cleaner: *See*—
Air cleaner.
Electrically lighted floor cleaner.
Cleaner for fluids. O. B. Goldkamp. 1,917,643; July 11.
Cleaner for furnaces, boilers and the like. R. McCarthy. 1,917,383; July 11.
Clip: *See*—
Clamping clip.
Closure for collapsible tubes. C. D. Spiller. 1,917,670; July 11.
Closure for truck mixers, Rear. C. F. Ball and A. E. Miller. 1,918,205; July 11.
Cloth cutting machine. H. E. Jacques. 1,917,889; July 11.
Clothes hanger. J. A. Johnson. 1,917,588; July 11.
Club, Game playing. C. H. Buckler. 1,918,179; July 11.
Clutch: *See*—
Liquid clutch.
Clutch. O. H. Banker. 1,917,484; July 11.
Clutch, Liquid. E. Wohlenhaus. 1,918,163; July 11.
Coaster and ash tray, Combined. A. E. Gundelach. Des. 90,284; July 11.
Coatings of metal and product thereof, Forming. J. G. Potter. 1,917,271; July 11.
Collar for personal wear. H. S. Hele-Shaw. 1,917,971; July 11.
Collecting filled match boxes. N. A. Lagerholm. 1,917,986; July 11.

Collet. B. L. Connell. 1,917,752; July 11.
Color displaying device. E. Scharnowski. 1,917,464; July 11.
Combustion chamber. M. J. Goldberg. 1,917,883; July 11.
Comic strip display device. F. N. Kalert and J. Suda. 1,917,977; July 11.
Communication by means of current impulses, System of. E. Kruhme, A. Jipp, and E. Rossberg. 1,918,043; July 11.
Communication on short waves. A. Meissner. 1,917,312; July 11.
Composition for foundry molds. J. B. Durand. 1,918,090; July 11.
Compositions, Making hard metal. R. Palmer. 1,918,212; July 11.
Compounds of the amino-halo-indanthrene series and making them. W. Smith and J. Thomas. 1,917,466; July 11.
Compounds of the 1-phenyl-2-amino-alcohols-1 series hydroxylated in the phenyl radial, Preparing. M. Bockmühl, G. Ehrhart, and L. Stein. 1,917,424; July 11.
Compressor drive apparatus. N. A. Christensen. 1,917,429; July 11.
Computer, Altimeter temperature correction. G. P. Luckey. 1,918,188; July 11.
Concrete and like plastic substances, Apparatus for molding. F. Schlagintweit. 1,917,738; July 11.
Condenser: *See*—
Variable electric condenser.
Condensers and the like, System for indicating working conditions of. R. G. Reynoldson. 1,917,810; July 11.
Condensing and purifying vapors and gases, Method and apparatus for. W. H. McGrath. 1,917,895; July 11.
Conductor, Fluid insulated. J. D. Hilliard. 1,918,036; July 11.
Connecter: *See*—
Electric connecter.
Connecter, Electrical. J. G. Peterson. 1,918,126; July 11.
Connection, Pivotal. H. C. Harris. 1,917,797; July 11.
Construction material. A. C. Fischer. 1,917,930; July 11.
Container: *See*—
Absorbent container. Packing and display container.
Bottom lift container. Sheet metal container.
Cigarette container.
Container. E. D. Phinney. 1,917,541; July 11.
Container and reenforcement therefor. H. R. Bliss. 1,917,920; July 11.
Container composed of structural members. A. Howie. 1,917,764; July 11.
Container for sliced bread and the like, Dispensing. E. Wilding. 1,917,480; July 11.
Containers, Method of and apparatus for making angular. J. A. Gray. Re18,890; July 11.
Containers of paper or like material, and lids or covers therefor, Manufacture of. C. and E. Z. Taylor. 1,917,558; July 11.
Continuous pressure filter. C. Budke. 1,917,696; July 11.
Continuous ridge ventilator. M. Dexter. 1,917,218; July 11.
Control and stabilizer, Helicopter. W. F. Gerhardt. 1,917,965; July 11.
Control apparatus. A. S. Mancib. 1,917,893; July 11.
Control device for liquid dispensing apparatus. R. J. Gallagher. 1,917,864; July 11.
Control, Elevator. J. J. Fogarty. 1,918,024; July 11.
Control for synchronous motor generators, Automatic power factor. J. F. Usener, sr., and J. F. Usener, jr. 1,917,618; July 11.
Control valve. J. Naab. 1,917,316; July 11.
Control, Wild well. W. W. Whitwam. 1,918,161; July 11.
Conveyer, Endless. C. H. Marshall. 1,917,659; July 11.
Copyholder. F. W. Storck. 1,918,217; July 11.
Corn husker. A. Rosenthal. 1,917,996; July 11.
Cotter pin lock. F. E. Strickland. 1,918,148; July 11.
Cotton cleaning apparatus. J. E. Mitchell. 1,917,896; July 11.
Coupling. E. Pfluger. 1,917,775; July 11.
Coupling, Tubular shaft. H. W. Jonkhoff. 1,918,108; July 11.
Cover: *See*—
Leaf spring cover.
Cover for bedpans and similar articles, Protective. E. C. Case and H. C. Henderson. 1,918,083; July 11.
Cover for leaf springs. G. W. Crabtree. 1,917,758; July 11.
Covers, Device for applying abrasive tool. F. Ricks and E. F. Towndrow. 1,917,329; July 11.
Crankless engine. G. M. Shober. 1,917,274; July 11.
Crutch, Walking. A. and E. M. Finkbeiner. 1,917,440; July 11.
Current, Producing an electric. W. J. Williams. 1,917,565; July 11.
Currents, System for producing high voltage direct. D. K. Martin. 1,917,458; July 11.
Curtain fixture. C. C. Coen. 1,917,828; July 11.
Cushion. C. L. Hayes. 1,917,970; July 11.
Cushion foot. G. D. Schermerhorn. 1,917,601; July 11.
Cut-off for dispensing devices. H. M. Gusdorf. 1,917,866; July 11.
Cut-off mechanism for tube machines. G. B. Miller, jr. 1,917,806; July 11.
Cutter: *See*—
Shingle cutter.
Cutter, Shingle. R. E. Hook. 1,918,104; July 11.
Cycle and braking mechanism therefor, Freewheel. J. V. Pugh. 1,917,459; July 11.
Cycle locating mechanism, Full. E. C. Walter. 1,917,476; July 11.
Cyclohexylphenyls, Manufacture of. E. C. Britton and R. P. Perkins. 1,917,823; July 11.
Cylinder and piston mechanism, Construction for rotary type. H. F. Vickers. 1,917,783; July 11.
Damper, Vibration. F. F. Kishline. 1,917,850; July 11.
Damping device for shutters. A. G. Sutcliffe. 1,917,340; July 11.
Dental instrument. M. M. Paule. 1,917,851; July 11.
Desk set, Fountain pen. A Biemenstein. 1,917,423; July 11.
Developing and printing device, Negative. L. G. Simjian. 1,918,061; July 11.
Device for heating water. E. J. Lee. 1,918,113; July 11.
Diaphragm for acoustic apparatus. J. Leopold. 1,917,309; July 11.
Die for making ice bags, etc. A. D. Walker. 1,917,743; July 11.
Dieing machine. C. F. Sherman. 1,918,059; July 11.
Diphthaloylnaphthalene compounds and new compounds obtainable thereby, Preparing. A. Wolfram and E. Hausdörfer. 1,917,414; July 11.
Dipper stick construction, Welded. L. A. Russell. 1,917,666; July 11.
Dishwashing attachment. C. E. Cole. 1,917,829; July 11.
Disk assembly, Water, dirt, and water tight. L. C. Weaver. 1,917,674; July 11.
Disks, Making strong, thin, cemented carbide. G. F. Taylor. 1,918,064; July 11.
Display box. L. R. Wilmarth. 1,917,349; July 11.
Display panel. P. I. Schultz. 1,917,603; July 11.
Display rack. E. B. Weston. 1,917,564; July 11.
Dispensing device. R. P. Johnson. 1,917,976; July 11.
Dispensing package. J. P. Dunne. 1,918,088; July 11.
Dispensing pump. B. J. Pepper. 1,918,193; July 11.
Display rack. J. H. Platt. 1,918,056; July 11.
Disposal device. S. Hammer. 1,917,298; July 11.
Door dovetail. A. P. Ball and W. E. Hann. 1,918,170; July 11.
Door, Elevator. C. Woodruff. 1,917,415; July 11.
Doorlatch construction. W. C. Devereaux. 1,917,437; July 11.
Doorlatch mechanism. W. C. Devereaux. 1,917,438; July 11.
Door operating mechanism. W. J. Ellis. 1,918,091; July 11.
Door operating mechanism. C. S. Pidgeon. 1,918,054; July 11.
Doorstop. W. E. Wegner. 1,918,072; July 11.
Draft rigging. C. E. Dath. 1,917,874; July 11.
Draft rigging, Friction. G. W. Wildin. 1,917,626; July 11.
Drafting apparatus. R. H. Sachtleber. 1,918,216; July 11.
Drawbar device for harrows. L. A. Pazandak. 1,918,213; July 11.
Drawing mechanism for textile rovings. F. Casablancas. 1,917,699; July 11.
Drawworks. E. E. Greve. 1,918,097; July 11.
Drill: *See*—
Rock drill.
Drilling machine spindle. A. M. Johnson. 1,917,842; July 11.
Drilling of wells, Method and apparatus employed in the. E. E. Greve. 1,918,096; July 11.
Drying and impregnating of cables. B. S. F. Ell. 1,917,957; July 11.
Dual-ratio mechanism for automobiles. C. M. Wert. 1,918,200; July 11.
Duplicating process. K. C. D. Hickman. 1,917,370; July 11.
Dust collector. A. L. Searles. 1,917,857; July 11.
Dye and making same, Azo. E. F. Grether. 1,917,519; July 11.
Dyestuff intermediates of the benzoyl-benzoic acid series. R. J. Loveluck and J. Thomas. 1,917,311; July 11.
Dyestuff and fiber dyed therewith, Water-insoluble azo. W. Fitzky. 1,917,442; July 11.
Dyestuffs derived from indoline bases, Preparing basic. O. Wahl. 1,917,475; July 11.
Dynamite and the like, Plastic waterproof compositions for blasting. D. E. Pearsall. 1,917,540; July 11.
Egg supporting and turning device during incubation. M. W. Olsen and H. T. Baker. 1,917,389; July 11.
Ejecting and delivery device for winding machines. J. A. Cameron. 1,918,016; July 11.
Electric condenser, Variable. M. H. Bennett and A. D. Cowperthwait. 1,917,487; July 11.
Electric connecter. F. L. Weiss. 1,917,745; July 11.
Electric discharge device. S. P. Sasboff. 1,917,997; July 11.
Electric discharge device. F. Schröter. 1,917,739; July 11.
Electric furnace. A. H. Pehrson. 1,917,730; July 11.
Electric heater. W. A. Rankin. 1,917,461; July 11.

Electric machine construction, Dynamo. W. G. Schneider. 1,917,552; July 11.
Electric plug. W. T. Anderson. 1,917,683; July 11.
Electric plug. E. Loosli. 1,917,803; July 11.
Electric power, Transmission of. A. W. Hull. 1,918,105; July 11.
Electric sign. J. Z. Earley. 1,917,956; July 11.
Electric switch. H. M. Ward. 1,918,199; July 11.
Electrical conduit fitting. C. E. Rutherford. 1,917,950; July 11.
Electrical fuse plug support. G. E. Wadsworth. 1,917,860; July 11.
Electrical instrument. C. H. Crawford and S. C. Hoare. 1,918,019; July 11.
Electrical instrument. P. S. Edwards and C. D. Barbulesco. 1,917,244; July 11.
Electrical instrument. H. T. Faus. 1,918,023; July 11.
Electrical plug. H. V. Stryker. 1,917,909; July 11.
Electrical precipitation apparatus. R. Heinrich. 1,917,522; July 11.
Electrode, Multiple spot welding. R. A. Gilbert. 1,918,226; July 11.
Electrode, Welding. R. T. Gillette. 1,918,028; July 11.
Electrodeposition. L. Weisberg and W. F. Greenwald. 1,918,159; July 11.
Electromotive forces and impedances, Method and apparatus for measuring alternating. T. Zuschlag. 1,917,417; July 11.
Elevator: *See*—
Truck mounted elevator.
Elevator. N. K. Smith. 1,917,669; July 11.
Emulsion. B. R. Harris. 1,917,249-52; July 11.
Emulsion. B. R. Harris. 1,917,255-9; July 11.
Emulsion. B. R. Harris. 1,917,260; July 11.
Emulsion and product to be used therein, Margarine. A. K. Epstein and B. R. Harris. 1,917,253; July 11.
Energy for electrical igniters, Devices for providing. H. Rühlemann. 1,917,813; July 11.
Engine: *See*—
Aircraft engine. Internal combustion engine.
Crankless engine.
Equalizer for multiple cables, Strain. G. K. Viall. 1,918,220; July 11.
Equalizer for vehicle springs. C. B. Smith. 1,918,141; July 11.
Evaporating solutions, Method of and apparatus for. B. S. Hughes, W. H. Eggert and S. Hughes. 1,917,841; July 11.
Evaporator. F. G. Slagel. 1,917,667; July 11.
Excavator apparatus. L. E. Dierks. 1,917,955; July 11.
Excavators, Earth discharge mechanism for. N. De Wind. 1,917,508; July 11.
Exercising device. P. W. Smith. 1,918,142; July 11.
Explosionproof motor. W. W. Sloane. 1,917,607; July 11.
Extracting iodine from aqueous solutions. C. W. Jones. 1,918,039; July 11.
Fabric, Composite. D. P. Murphy. Des. 90,292; July 11.
Fabric, Elastic. A. Knauer. Des. 90,287; July 11.
Fabric or similar article, Textile. M. Libert. Des. 90,289; July 11.
Fabric or similar article, Textile. J. Schweizer. Des. 90,298; July 11.
Fabric, Textile. J. Persky. Des. 90,293-6; July 11.
Facsimile system, Arc scanning. A. M. Nicolson. 1,918,124; July 11.
Fading, Eliminating. H. H. Beverage and H. O. Peterson. 1,917,290; July 11.
Fading, Eliminating. H. H. Beverage and H. O. Peterson. 1,917,291; July 11.
Fan, Electric ventilating. E. S. Preston. 1,917,327; July 11.
Fare collection apparatus. E. H. Thompson. 1,917,615; July 11.
Fastener: *See*—
Loose leaf fastener. Snap fastener.
Fastener installation. R. M. Prez. 1,917,853; July 11.
Fastening, Metal wall tile. A. W. Nelson. 1,917,388; July 11.
Faucet, Beer separator and dispensing. A. Gordon. 1,917,582; July 11.
Fermentation, Promotion of. E. W. Herr. 1,917,521; July 11.
Ferric oxide and the recovery of sulphur, Production of. R. F. Bacon and H. T. Hotchkiss, jr. 1,917,684; July 11.
Ferric sulphate, Making. H. S. Marsh and C. W. Weesner. 1,917,945; July 11.
Fertilizer material and preparing the same. G. Singleton and R. P. Thornton. 1,918,233; July 11.
Fibrous material, Digestion of. H. G. Cram. 1,918,181; July 11.
Fibrous structure, Multiply. A. O. Mickelson. 1,917,456; July 11.
Filing system, Vertical. W. C. Kelsey. 1,917,980; July 11.
Film gate for motion picture apparatus. F. Tuttle. 1,917,408; July 11.
Film printing. J. G. Capstaff. 1,917,360; July 11.
Film, Reenforcing and protecting motion picture and sound. N. M. Perrins. 1,917,393; July 11.
Film sound record apparatus. C. W. Hewlett. 1,918,102; July 11.
Film, Visibly marked photographic. R. N. Titus. 1,917,406; July 11.
Films for natural color reception, Making. W. R. B. Larsen. 1,918,208; July 11.
Films, Protecting the sound track on sound motion picture. P. C. Seel. 1,917,397; July 11.
Films, Reproducing acoustic. A. Karolus. 1,917,306; July 11.
Filter: *See*—
Continuous pressure filter.
Finger tip and nail shaper. H. P. Brown. 1,917,794; July 11.
Fire extinguisher. C. L. Paulus and R. Kauch. 1,918,191; July 11.
Fire extinguishing apparatus. F. L. Boyd. 1,917,694; July 11.
Fish line bobber. J. E. Gaede and E. M. Sargent. 1,917,707; July 11.
Fish net. S. J. Hayes. 1,917,937; July 11.
Fixture, Lighting. G. W. Goldner. 1,918,031; July 11.
Floor cleaner, Electrically lighted. H. J. Goosman. 1,917,761; July 11.
Flower holder. J. H. Luft. 1,918,115; July 11.
Flow meter. J. J. Groetken. 1,917,710; July 11.
Flowmeter. H. B. Inglis, C. L. Paulus, and R. Kaugh. 1,917,974; July 11.
Flow switch. H. M. Nacey. 1,917,317; July 11.
Fluid control valve, Pressure. O. Meyer. 1,917,455; July 11.
Fluids, Method and apparatus for separating. O. G. Bowen. 1,917,792; July 11.
Fluids to reciprocating parts of machinery, Conducting. K. O. Keller. 1,917,590; July 11.
Flying machine. H. T. Booth. 1,917,574; July 11.
Foldable table. S. Kanclerz. 1,917,526; July 11.
Font, Pen holder ink. R. A. Wood. 1,917,281; July 11.
Forging hollow working implements. C. C. Sickels. 1,918,060; July 11.
Foundry molds, Manufacture of. J. B. Durand. 1,918,089; July 11.
Fractionating column, Analytical. W. J. Podbielniak. 1,917,272; July 11.
Fracture frame, Adjustable. E. D. McBride. 1,917,661; July 11.
Frame: *See*—
Adjustable fracture frame. Window frame.
Frangible joint. J. W. Heeter. 1,917,939; July 11.
Frequency changer system. E. T. Burton. 1,917,921; July 11.
Frequency determining means. W. Runge. 1,917,395; July 11.
Frequency modulation. W. V. B. Roberts. 1,917,394; July 11.
Frequency receiving system, Multiple. C. B. Mirick. 1,917,268; July 11.
Frictional lining extruding apparatus and method. K. Pfeiffer. 1,918,127; July 11.
Fruit dumper. C. and J. G. Griffith. 1,917,709; July 11.
Fuel, Apparatus for burning. W. H. Pascoe. 1,917,392; July 11.
Fuel mixer. W. A. Doble, Jr. 1,917,577; July 11.
Fuel supply pump. L. Beeh. 1,917,690; July 11.
Funnel for dispensing lubricating oil. A. L. Kronquest and F. G. Searle. 1,918,112; July 11.
Furnace: *See*— Open hearth support furnace.
Electric blast furnace.
Furnace. W. G. Adam and P. Gray. 1,917,682; July 11.
Furnace. S. Daniels. 1,917,702; July 11.
Furnaces, Apparatus for feeding batch mixtures to. R. Good. 1,917,247; July 11.
Furniture, Article of. R. R. Shearer. 1,917,554; July 11.
Furniture trimming. E. W. North. 1,917,319-20; July 11.
Fuse and expelling fuse wire therefrom. J. B. Trescott. 1,917,781; July 11.
Fuse, High tension. T. E. Murray, jr. 1,917,315; July 11.
Fuse mounting block. G. E. Wadsworth. 1,917,861-2; July 11.
Fuse plug, Electrical. M. F. Tucker. 1,917,407; July 11.
Fuse switch. J. B. Trescott and S. S. Baker. 1,917,780; July 11.
Galvanizing process and apparatus. C. M. MacChesney and R. H. Norton. 1,917,657; July 11.
Game. C. L. Clark. 1,917,700; July 11.
Game board. L. W. Gensburg. Des. 90,281; July 11.
Game board. F. A. Rogers. Des. 90,297; July 11.
Game device. D. G. Geekas. 1,918,094; July 11.
Garment, Combination supporting. E. M. Reese. 1,917,543; July 11.
Gas burner. A. W. Morse. 1,917,897; July 11.
Gas burning appliance for absorption refrigerators. L. S. Chadwick, M. Resek, and W. G. Midnight. 1,917,751; July 11.
Gas controller for ovens, Automatic. A. M. Vedoe and C. Elbye. 1,917,346; July 11.
Gas fixtures. J. V. Kindl. 1,917,982; July 11.
Gas gathering system. A. E. Harnsberger. 1,918,100; July 11.
Gas generators, Mechanical grate for. J. S. Haug. 1,917,839; July 11.
Gas motor, Rotary. F. L. Berggren. 1,918,174; July 11.
Gas pressure apparatus. P. E. Klopsteg. 1,917,846; July 11.

Gas shut-off valve, Automatic. F. C. Utterback and G. W. Warrick. 1,917,619; July 11.
Gas supply system, Oxygen. J. B. Eshbaugh. 1,917,958; July 11.
Gas valve. J. V. Kindl. 1,917,981; July 11.
Gas valve. J. V. Kindl. 1,917,983; July 11.
Gasket. C. B. Bailey. 1,917,214; July 11.
Gasket. W. R. Gillies. 1,917,834; July 11.
Gasoline, Recovery of natural. R. N. Parks. 1,917,899; July 11.
Gasoline tank and ignition locking device. H. W. Gang. 1,918,093; July 11.
Gasoline with zinc chloride, Refining. F. E. Kimball. 1,917,648; July 11.
Gauge: *See*—
Screw thread gauge. Screw thread gauge.
Gauge. F. W. Dwyer. 1,917,637; July 11.
Gauging mechanism for internal grinders. H. V. Törnebohm. 1,918,198; July 11.
Gear: *See*—
Hydraulic steering gear.
Gear box, Change speed. L. A. Demkier and D. L. Meyers. 1,917,507; July 11.
Gloss meter, Automatic. E. M. Lowry. 1,917,379; July 11.
Gold alloy. L. Lenfant. 1,917,378; July 11.
Golf club and manufacture of the same. W. Ogg and L. A. Storz. 1,917,774; July 11.
Golf club structure. E. Fetter. 1,917,795; July 11.
Governor, Fan control. O. H. Baumann. 1,917,790; July 11.
Governor for alternating current motors, Speed. R. J. Wise. 1,918,203; July 11.
Grass, fodder and the like, Drying of young. O. Söderlund. 1,917,467; July 11.
Grate bar. J. S. Thompson. 1,917,559; July 11.
Grating structure. P. T. Black. 1,917,573; July 11.
Griddle, Waffle. M. W. McArdle. 1,918,051; July 11.
Grinder, Ball race. A. P. Steiner, H. E. Balsiger, and E. P. Wine. 1,917,468; July 11.
Grinder, Breaker point. H. H. Walters. 1,917,863; July 11.
Grinder, Cutter. F. W. Curtis. 1,917,504; July 11.
Grinding apparatus, Internal. G. G. Agostoni. 1,918,077; July 11.
Gripper. H. C. Porter. 1,917,663; July 11.
Guide, Line. G. W. Bretz. 1,917,493; July 11.
Hair, Apparatus for testing. C. Nessler. 1,917,597; July 11.
Hair clipper. N. E. Norstrom. 1,917,662; July 11.
Hair, Coloring. L. Weisberg and W. F. Greenwald. 1,918,158; July 11.
Hair curler. C. K. Thau. 1,917,841; July 11.
Hair waver. B. Saunders. 1,917,549-50; July 11.
Halogen derivatives of a-naphthoyl-o-benzoic acid. R. Adams, E. H. Johnson, and V. M. Weinmayr. 1,917,285; July 11.
Hammer, Rotary. S. C. Jensen. 1,917,525; July 11.
Hammock, Canvas. C. R. Goudie. 1,917,518; July 11.
Handle: *See*—
Scraping tool handle.
Handle connection and making the same, Mop. J. W. Barton. 1,917,570; July 11.
Hanger: *See*—
Clothes hanger.
Hat blocking and rebuilding machine. W. O. Peebles. 1,918,192; July 11.
Headlight, Dash illuminating. F. Buchanan. 1,917,292; July 11.
Head rest, Adjustable. C. M. Jacobsen. 1,917,817; July 11.
Heat treatment of materials in rotary furnaces, Method and apparatus for. B. M. S. Kalling and C. V. Delwig. 1,917,942; July 11.
Heater: *See*—
Chimney heater. Water heater.
Electric heater.
Heater. J. R. McDermet. 1,917,595; July 11.
Heating system. H. Laub. 1,918,209; July 11.
Heating tubes over shafts. H. G. Barrett. 1,918,171; July 11.
Hinge. E. W. North. 1,917,321; July 11.
Hinge. W. J. Kassick. 1,918,040; July 11.
Hoe, Wheel. B. L. Simmons. 1,917,333; July 11.
Holder: *See*—
Candle holder. Safety pin holder.
Flower holder. Soap holder.
Holder for heel-portions. J. F. Standish. 1,917,337; July 11.
Holding means for artificial dentures. H. D. Rowe. 1,917,902; July 11.
Holster. J. I. Keith. 1,917,844; July 11.
Hood for welding molds. E. F. Begtrup. 1,917,868; July 11.
Hopper car construction. W. E. Wine. 1,917,785; July 11.
Hose appliance, Sprinkler. E. C. Hanley. 1,917,924; July 11.
Hose union. A. J. Scholtes. 1,917,553; July 11.
Hot cathode electron discharge tube. H. M. Freeman and W. G. Wade. 1,917,963; July 11.
Humidifying apparatus. G. D. Doherty. 1,918,086; July 11.
Hydraulic clutch or braking device. F. Henriot. 1,917,972; July 11.
Hydraulic gate. E. L. Broome. 1,918,015; July 11.
Hydrocarbon products, Production of low boiling. M. Pier, K. Winkler, and W. Simon. 1,917,324; July 11.
Hydrocarbons, Apparatus for altering the boiling points of. R. E. Burk and E. B. McConnell. 1,917,357; July 11.
Hydrogen sulphide from refinery gases, Extracting. C. R. Wagner. 1,918,153; July 11.
Ice cream making. M. Arimoto. 1,917,483; July 11.
Ice rink structure. M. R. Carpenter. 1,917,634; July 11.
Illuminating apparatus. F. Newman. 1,918,128; July 11.
Illumination for automobiles, System of selective road. W. A. Rush. 1,917,66; July 11.
Illusory effects, Production of. T. H. Farris. 1,917,246; July 11.
Incubator, Oscillatory. B. H. Clem. 1,917,576; July 11.
Indicating device. H. Singer. 1,918,068; July 11.
Indicator: *See*—
Electric plug aperture indicator. Tire pressure indicator.
Induction motor, Self-starting. B. A. Benson. 1,917,289; July 11.
Industrial truck. T. E. Lyons. 1,917,892; July 11.
Insecticide. E. R. de Ong. 1,917,754; July 11.
Insulator support. C. L. Peirce, jr. 1,917,822; July 11.
Internal combustion engine. C. H. Fuchs. 1,917,758; July 11.
Internal combustion engine. L. M. Woolson. 1,918,075; July 11.
Internal combustion engine. L. M. Woolson. 1,918,076; July 11.
Iron-sulphide bearing material, Treatment of. R. F. Bacon and I. Bencowitz. 1,917,223; July 11.
Iron-sulphide bearing material, Treatment of. R. F. Bacon and I. Bencowitz. 1,917,228; July 11.
Iron-sulphide bearing material, Treatment of. R. F. Bacon and R. Fanelli. 1,917,229; July 11.
Iron-sulphide bearing material, Treatment of. R. F. Bacon and H. T. Hotchkiss, jr. 1,917,222; July 11.
Iron-sulphide bearing material, Treatment of. R. F. Bacon and H. T. Hotchkiss, Jr. 1,917,233; July 11.
Jack: *See*—
Screw jack.
Jack. T. Hill and E. H. Zimmerman. 1,917,585; July 11.
Jack and clamp, Combined floor. H. K. Christ. 1,918,017; July 11.
Jar or similar container. H. R. McDonald. Des. 90,290; July 11.
Jig, Doweling. B. E. Smith. 1,917,668; July 11.
Joint: *See*—
Cable joint. Rail joint.
Frangible joint. Structural joint.
Pipe joint.
Joint packing box, Flexible. W. B. Tinsley. 1,917,742; July 11.
Journal box. C. C. Dibble. 1,917,510; July 11.
Keeper. D. W. Wood. 1,918,165; July 11.
Key board lock. E. G. Elliott. 1,917,511; July 11.
Key ejecting mechanism. R. B. Smith. 1,917,778; July 11.
Key retainer, Cross coupler draft. S. L. Joiner. 1,918,107; July 11.
Knitting machine. H. H. Holmes. 1,917,763; July 11.
Kyle. J. Grey. 1,917,520; July 11.
Lamp: *See*—
Ultra violet lamp.
Lamp or similar article. B. F. Lee. Des. 90,288; July 11.
Lamp reflector. E. H. Mattison. 1,917,990; July 11.
Latch: *See*—
Window latch.
Latch means for cabinet doors. S. Hammer. 1,917,297; July 11.
Latch mechanism, Door. W. C. Devereaux. 1,917,436; July 11.
Latch needle for picking up loops. C. Fiedler. 1,918,183; July 11.
Lathe attachment. J. Y. Blazek. 1,917,748; July 11.
Lavatory, Shampoo. R. A. Northcott. 1,917,778; July 11.
Lever, Sheet metal. W. T. Hunt. 1,917,715; July 11.
Lift for trucks, Hydraulic. W. Schroeder. 1,917,602; July 11.
Light director, Vehicle. E. S. Timmons. 1,917,560; July 11.
Light, vault light, and roof light construction, Floor. J. H. Old. 1,917,808; July 11.
Lighter. G. H. Jaspert and J. M. Guthrie. 1,917,766; July 11.
Lighting fixture. W. Symmes. 1,917,612; July 11.
Lights of automobiles, Device for automatically dimming the. R. Loewenstein. 1,917,532; July 11.
Line of position and wind drift plotter. P. V. Weems. 1,917,278; July 11.
Liner for garbage receptacles. T. F. Curry. 1,917,217; July 11.
Liquid container. P. Runnels. 1,918,215; July 11.
Liquid dispensing can. P. D. Fulton. Re18,891; July 11.
Liquid, System and apparatus for treating. A. C. Dresher. 1,917,704; July 11.
Liquids, Increasing the wetting capacity of alkaline treatment. F. Pospiech. 1,917,326; July 11.
List or fillet for crevices. A. I. Lund. 1,917,592; July 11.
Lister marking attachment. E., H., and W. Palkal. 1,917,738; July 11.
Loader, Hay. J. E. Hurley. 1,917,765; July 11.
Loader, Hay. H. Moschel. 1,917,770; July 11.
Loading apparatus. L. A. Becker. 1,917,571; July 11.
Loading device, Traveling. G. Goets. 1,918,029; July 11.

Loading machine. A. Hauge. 1,917,368; July 11.
Lock: *See*—
Cotter pin lock. Multiple key lock.
Keyboard lock.
Lock for automobiles, etc. T. S. Hughes. 1,917,973; July 11.
Lock structure. A. C. Mabee. 1,917,593; July 11.
Lock structure. A. C. Mabee. 1,917,656; July 11.
Lock structure. F. A. Smith. 1,917,609; July 11.
Lock structure. E. J. Van Sickel. 1,917,620; July 11.
Longevous cultures of aciduric bacteria. F. W. Nitardy, J. J. Enright, and V. S. Wrenn. 1,918,042; July 11.
Longevous cultures of aciduric bacteria. F. W. Nitardy, J. J. Enright, and V. S. Wrenn. 1,918,052–3; July 11.
Loose leaf fastener. P. H. Barkley. 1,917,569; July 11.
Loud speaker. B. A. Engholm. 1,918,092; July 11.
Lubricant from cold rolled strip metal, Method of and apparatus for removing. J. J. Grobstein and B. M. Crum. 1,918,207; July 11.
Lubricating apparatus. C. F. Raisch. 1,917,949; July 11.
Lubricating arrangement for use in bearings. E. Koch. 1,917,447; July 11.
Lubricating device. P. P. Shaw. 1,917,605; July 11.
Lubricating means. J. G. Heaslet. 1,917,584; July 11.
Lubricating system. C. G. Butler. 1,917,238; July 11.
Lubricating system. R. J. Gray. 1,917,966; July 11.
Lubricator: *See*—
Rail flange lubricator.
Lubricator supply tank. C. Stern. 1,918,145; July 11.
Luggage. O. H. Plotkin. 1,917,458; July 11.
Lunch stand. K. J. Hines. Des. 90,285; July 11.
Machine and method for removing dents from filled cans. R. B. Taylor. 1,918,004; July 11.
Machine for cleaning cans. F. F. Wolf. 1,917,350; July 11.
Machine for filling and sealing ampules, phials, and the like, vessels, Automatic. L. Marzocchi. 1,918,118; July 11.
Machine for forming metal bands. J. F. Peters. 1,917,270; July 11.
Machine for handling coal and other loose material in mines. M. A. Evans. 1,917,514; July 11.
Machine for sharpening razor blades. A. A. Kohlmiller. 1,918,111; July 11.
Machine for working wire cloth. N. W. Webb. 1,917,624; July 11.
Machine, Multiple head automatic drilling. G. Swahnberg and E. J. Kingsbury. 1,918,150; July 11.
Machine tool. W. M. Fairbairn. 1,917,831; July 11.
Machine tool. H. L. Tigges. 1,917,616; July 11.
Machine tool feeding apparatus. W. L. Schellenbach. 1,917,905; July 11.
Manifolding device. G. O. Degener. 1,917,635; July 11.
Manure, Manufacture of a carbon dioxide. D. Witt. 1,917,680; July 11.
Margarine and producing the same. B. R. Harris. 1,917,254; July 11.
Magarine, Manufacturing. M. C. Reynolds. 1,917,273; July 11.
Marine propeller. S. Crump. 1,917,503; July 11.
Marker attachment for typewriters. C. A. McGlennon. 1,917,727; July 11.
Marker, Line. E. H. Hollingshead. 1,918,103; July 11.
Mask, Protective. H. A. Fee. 1,917,961; July 11.
Material in gas, Method and apparatus for dispersing divided solid. M. A. Lissman. 1,917,266; July 11.
Measuring apparatus. M. Stone. 1,918,001; July 11.
Mercury switch, Centrifugal. G. A. Gillen. 1,917,581; July 11.
Metal casting from gelatine reliefs. A. Murray. 1,917,387; July 11.
Metal, Casting readily oxidizable. J. A. Gann. 1,917,759; July 11.
Metal pipes, System of apparatus for galvanizing. C. E. Bedell. 1,917,918; July 11.
Metal, Process of and apparatus for removing protuberances from. L. Campbell, jr. 1,917,750; July 11.
Metal sheets, Apparatus for slitting. H. K. Baker. 1,917,630; July 11.
Metal spraying device. A. D. Irons and D. L. Waldock. 1,917,523; July 11.
Metal working, Apparatus for. J. Schmeller, sr. 1,917,856; July 11.
Meter: *See*—
Automatic gloss meter. Flow meter.
Mine cars, Draft and buffing mechanism for. R. E. Dendler. 1,917,876; July 11.
Mine lamp. G. Wheat. 1,918,223; July 11.
Mine ventilating apparatus. L. J. Driggs. 1,917,439; July 11.
Mining apparatus. J. C. Nelms. 1,917,318; July 11.
Moisture take-up for jellies and conserves. L. C. Mazzola. 1,917,454; July 11.
Molded articles from plastic compositions, Production of. H. Lebach and J. K. Wirth. 1,917,451; July 11.
Molding a motor mounting pad. J. F. Duffy. 1,917,929; July 11.
Molding mixture and preparing the same. J. H. Schmidt and R. S. Daniels. 1,917,815; July 11.
Monoazodyestuffs, Water-insoluble. H. Clingestein and K. Dobmaier. 1,917,432; July 11.
Mortising Tool. C. C. Urban. 1,918,067; July 11.
Motor: *See*—
Explosion proof motor. Radial motor.
Rotary gas motor. Self starting electric motor.
Motor support and frame connection. F. M. Guy. 1,917,644; July 11.
Mounting for hand grinding devices. L. Schulte. 1,917,906; July 11.
Mower. R. S. Kinkead. 1,917,649; July 11.
Mower, Lawn. L. W. Vachon. 1,917,782; July 11.
Mowing and cultivating machine, Combination. M. Soss. 1,917,556; July 11.
Muffler, Blow-off. C. W. Floen. 1,917,542; July 11.
Multiple key lock. G. D. Hill. 1,917,302; July 11.
Navigational instrument. E. L. Woodside. 1,917,282; July 11.
Necktie. D. L. Krakower. 1,917,651; July 11.
New anthraquinone compounds. F. Baumann. 1,917,421; July 11.
New-ortho-aniline-sulphonic acid. E. Fischer, A. Kissling, and H. Kracker. 1,917,441; July 11.
9.10 diamino anthracene and its N-substitution products. M. A. Kunz, R. Stroh, and H. Dimroth. 1,917,801; July 11.
Nitroacylate, Preparation of acetone-soluble fibrous. C. J. Staud and R. H. Van Dyke. 1,917,401; July 11.
Nitro derivatives of a-naphthoyl-o-benzoic acid. R. Adams, E. H. Johnson, and V. M. Weinmayr. 1,917,286; July 11.
Nozzle, Air distribution. F. W. Hankins. 1,917,299; July 11.
Nozzle, Fuel injector. R. H. White. 1,918,201; July 11.
Nozzle, Sprinkling. M. C. Bersted. 1,917,216; July 11.
Oil, and making the same, Lubricating. G. H. B. Davis. 1,917,875; July 11.
Oil, Anti-solvent dewaxing of. F. W. Sullivan, jr., and C. E. Adams. 1,917,910; July 11.
Oil dispensing device. P. A. Maske. 1,918,049; July 11.
Oil from seeds, Extracting. B. Rewald. 1,917,734; July 11.
Oil heater for permanent hair waving equipment. A. G. Johnson. 1,917,305; July 11.
Oil switch with rotatable contact bridge. F. P. Houst. 1,917,887; July 11.
Oils, Cracking hydrocarbon. H. L. Doherty. 1,917,705; July 11.
Oiling system for bearings. F. T. Hague. 1,917,969; July 11.
Open hearth furnace. H. M. Murphy. 1,917,807; July 11.
Operating tool. C. O'Donnell. 1,917,878; July 11.
Organic compounds, Producing oxygenated. M. Pier, R. Wietzel, and K. Winkler. 1,917,823; July 11.
Oven regulator. A. M. Vedoe. 1,917,345; July 11.
Oxidations, Process and apparatus for effecting organic. J. E. Jewett. 1,917,718; July 11.
Packing and display container. A. J. Tanner. 1,917,741; July 11.
Packing, Antifriction. J. S. McNair. 1,917,769; July 11.
Packing, Closure. T. Resch. 1,918,134; July 11.
Packing device. J. R. Watkins. 1,918,157; July 11.
Packing mechanism for type setting machines. A. L. Schultz. 1,917,276; July 11.
Pad: *See*—
Supporting pad.
Pad for ironing machines, etc. R. N. West. 1,918,230; July 11.
Pad, Supporting. F. Drey. 1,918,022; July 11.
Paint and varnish remover. M. M. Wilson. 1,918,224; July 11.
Pan greasing machine. S. P. Larson. 1,917,767; July 11.
Paper bag. R. W. Jaite. 1,917,975; July 11.
Paper making machine. A. Aldrich and E. E. Berry. 1,917,287; July 11.
Paper, Process and apparatus for making. R. C. Germanson and F. Kranhold. 1,918,095; July 11.
Pasteurizing apparatus, Milk. B. L. Blochowiak. 1,918,081; July 11.
Pawl, Safety. H. H. Barber. 1,917,215; July 11.
Pedal, Accelerator. F. C. Sweeny. 1,918,218; July 11.
Pen, Capillary. G. S. Binckley. 1,917,572; July 11.
Pen, Fountain. B. F. Wopper. 1,917,568; July 11.
Pessary. F. Biey. 1,917,870; July 11.
Phonograph for nonuniform records, Automatic. T. W. Small. 1,918,062; July 11.
Photo-electric tube. H. C. Rentschler. 1,917,854–5; July 11.
Photograph mounting. R. O. Clark. 1,917,022; July 11.
Photographic shutter control. W. A. Riddell. 1,917,330; July 11.
Photographing. P. S. Edwards. 1,917,245; July 11.
Picture screen stand, Portable. J. T. Heck. 1,917,369; July 11.
Pictures, Apparatus for magnetically recording motion. V. C. de Ybarrondo. 1,917,509; July 11.
Piling, Concrete. S. Takechi. Des. 18,893; July 11.
Pilot for dirigible craft, Automatic. B. G. Carlson. 1,918,082; July 11.
Pipe joint. L. H. Menne. 1,917,992; July 11.
Piston, Bimetal. L. C. Evon. 1,917,706; July 11.
Piston, Pump. D. B. Evans. 1,917,639; July 11.
Pitch, Apparatus and process for cutting back. G. E. McCloskey. 1,917,384; July 11.

Planter, Corn. C. W. Lanham. 1,917,654; July 11.
Plates for deadening noises and vibrations, Producing isolating. E. Schluter. 1,918,140; July 11.
Plates for timepieces, movment. J. R. Putnam. 1,918,057; July 11.
Platform for lift trucks. R. B. Taylor and L. L. Guinn. 1,918,003; July 11.
Plug: *See*—
Electrical fuse plug. Spark plug.
Electric plug.
Plug aperture indicator, Electric. E. W. Dieckmann. 1,917,638; July 11.
Pools, Apparatus for warming and cleaning artificial. S. E. Test. 1,917,614; July 11.
Positive-measuring pump, Adjustable. H. T. Wheeler. 1,917,678; July 11.
Potentiometer resistance. L. Bermann. 1,918,013; July 11.
Power coupling device. A. R. Skinner. 1,917,858; July 11.
Power plant, Portable. H. Holzwarth. 1,917,714; July 11.
Press mechanism. R. W. Dinzl. 1,917,241; July 11.
Pressure controlled valve. W. W. Carson, jr. 1,917,698; July 11.
Process and apparatus for removing solids from liquids. J. A. Barr. 1,917,819; July 11.
Processing tool. S. A. Cogsdill. 1,917,925; July 11.
Production of arylides of 2.3-hydroxynaphthoic acid. T. S. Kerr. 1,917,890; July 11.
Projector apparatus. G. B. Starr. 1,917,611; July 11.
Propeller. T. L. Smith. 1,917,610; July 11.
Protective device for packages of cigarettes. H. Brudney. 1,917,427; July 11.
Pulmonary ventilating apparatus. J. A. Heidbrink. 1,917,940; July 11.
Pump: *See*—
Adjustable positive measuring pump. Fuel supply pump.
Rotary pump.
Dispensing pump.
Pump. C. G. Branstrator. 1,917,821; July 11.
Pump for refrigerating apparatus. C. F. Geiger. 1,917,760; July 11.
Punch press guard. E. D. Howell. 1,918,037; July 11.
Racket and other play implement, Tennis. R. Bloomstrand. 1,917,236; July 11.
Rack: *See*—
Display rack. Toilet paper rack.
Radial motor. J. Newmann. 1,917,772; July 11.
Radiator cleaning machine. C. Marxman. 1,918,048; July 11.
Radiator with integral fins. C. A. Olson. 1,918,211; July 11.
Radio apparatus. W. P. Place. 1,917,898; July 11.
Radio control apparatus. J. E. White. 1,918,160; July 11.
Radio receiving apparatus. F. H. Kroger. 1,917,307; July 11.
Radio telephony. H. S. Polin. 1,917,995; July 11.
Radiographic apparatus. W. S. Werner. 1,917,625; July 11.
Rail and wheel flange lubricator. C. Stern. 1,918,146; July 11.
Rail flange lubricator. C. Stern, D. W. Davis, and H. C. Gillespie. 1,918,144; July 11.
Rail joint. R. Faries. 1,917,832; July 11.
Railing for well-hole cars. W. B. Moir. 1,917,314; July 11.
Rayon manufacture. W. H. Furness. 1,917,515; July 11.
Razor blade box. G. C. Fullmer. 1,918,027; July 11.
Razor, Safety. A. A. Grothe. 1,917,220; July 11.
Razor, Safety. J. Muros. 1,918,227; July 11.
Razors, Finger-hold for safety. W. W. Robinson. 1,917,812; July 11.
Receptacle making apparatus. E. L. Jones. 1,917,374; July 11.
Reel package. L. W. Joyce. 1,918,109; July 11.
Reenforcement for round reaction towers for the manufacture of sulphuric acid. C. L. R. Jensen, A. Utkov, and K. Warming. 1,917,717; July 11.
Reflecting device. H. B. Donley. 1,918,087; July 11.
Refractory lining. E. F. Northrup. 1,917,849; July 11.
Refrigerating apparatus for railway cars. E. C. Wood. 1,917,865; July 11.
Refrigerator. E. D. Campbell and W. F. Dietrichson. 1,917,873; July 11.
Refrigerator cabinet. R. H. Money. Des. 90,291; July 11.
Refrigerator trap. J. H. Tobin. 1,917,344; July 11.
Register, Cash. S. Brand. 1,917,355–6; July 11.
Register, Cash. B. M. Shipley. 1,917,332; July 11.
Register, Filling. C. W. Potter. 1,918,194; July 11.
Regulation, System and apparatus for. L. H. von Ohlsen and F. W. Godsey, jr. 1,917,472–4; July 11.
Regulator: *See*—
Oven regulator.
Relay, Ultra-sensitive. P. S. Edwards and D. Barbulesco. 1,917,243; July 11.
Remote control device. C. E. Germanton. 1,917,881; July 11.
Remote control system. J. O. Carr. 1,917,294; July 11.
Repeater. J. Stich. 1,917,403; July 11.
Reproducing machines, Attachment for a. G. F. Montgomery. 1,917,269; July 11.
Resilient wheel. J. A. Gray. 1,918,032; July 11.
Resin and making the same, Phenol-furfural. N. D. Hanson. 1,917,248; July 11.
Resinous material from petroleum sludge. J. C. Bird. 1,917,869; July 11.
Resins and products thereof, Producing synthetic. L. Weisberg and W. F. Greenwald. 1,918,222; July 11.
Resistance body. J. F. Scheid. 1,917,331; July 11.
Resistance device, Adjustable. C. L. Weichelt. 1,917,675; July 11.
Resistor element. V. G. Apple. 1,918,078; July 11.
Resistor units, Manufacturing. R. P. Mattern. 1,918,050; July 11.
Resitols, Preparation of. R. Hessen. 1,917,713; July 11.
Retinometer. E. P. Cook. 1,917,500; July 11.
Retort and coke extractor therefor, Vertical gas. E. West. 1,917,746; July 11.
Retort, Char. J. F. Straitz. 1,917,339; July 11.
Rhythm maintaining device for artificial respiration. F. Knapke. 1,918,041; July 11.
Road grader and scarifier. F. E. Arndt. 1,918,169; July 11.
Road marker. G. R. Hanks. 1,918,099; July 11.
Road surfacing. E. C. Wallace. 1,918,155; July 11.
Rock drill. E. F. Terry. 1,918,065; July 11.
Rock drilling mechanism. W. A. Smith, sr., and W. A. Smith, jr. 1,917,335; July 11.
Rock trap. F. E. Deems. 1,917,954; July 11.
Roll, Abrading and scouring. E. Hope. 1,917,303; July 11.
Roller bearing. C. I. Lott. 1,917,452; July 11.
Rolling mill, Pilgering. F. Kocks. 1,917,448; July 11.
Rolls for rolling mills and the like, Apparatus for machining. H. Schimmel. 1,918,138; July 11.
Rolls for rolling mills, Method and apparatus for machining. H. Schimmel. 1,918,139; July 11.
Roof and cover, particularly adapted for motor cars and the like. A. H. Brinvilliers. 1,917,695; July 11.
Roost-preventer for poultry fountains or feeders. D. H. Hill. 1,917,371; July 11.
Rotary pump. J. F. Jaworowski. 1,917,524; July 11.
SO_2 recovered from refining hydrocarbons with SO_2, Purification of. E. Saegebarth. 1,917,736; July 11.
Safety device for elevator driving means. H. Roche. 1,917,462; July 11.
Safety device for one-man vehicles. G. Bianchi. 1,918,014; July 11.
Safety pin holder. A. Hagel. 1,917,838; July 11.
Safety switch. W. A. Wulle. 1,917,567; July 11.
Sales book, Manifolding. A. R. Lawson. 1,918,045; July 11.
Scaffolding. J. T. Mansfield. 1,918,116; July 11.
Scale incrustations, oil and the like in water receptacles, Removing. H. Bizzoni and P. Lent. 1,917,489; July 11.
Scraper. A. L. Stowell. 1,917,779; July 11.
Scraper attachment for tractor wheels. W. B. Thiemann. 1,917,673; July 11.
Screen: *See*—
Window screen.
Screen construction, Window. C. E. Galeener. 1,917,579; July 11.
Screw jack. B. O. Berg. 1,917,919; July 11.
Screw-thread gauge. J. Hartness. 1,917,301; July 11.
Seal, Lubricant. W. A. Mulbern. 1,918,121; July 11.
Sealing a container. H. Sebell. 1,918,196; July 11.
Seat covering. H. A. Sallop. 1,917,904; July 11.
Seed cotton unloading apparatus. J. L. Rennels. 1,918,133; July 11.
Seeder attachment for tractors. E. E. and S. R. Barron. 1,918,172; July 11.
Selecting mechanism for typographical machines, Automatic ejector. S. E. Sperry. 1,918,000; July 11.
Selector armature retaining type, pin barrel. H. L. Krum. 1,917,308; July 11.
Separable fastener. G. Sundback. 1,918,229; July 11.
Separating chloronaphthalenes. E. C. Britton and W. R. Reed. 1,917,822; July 11.
Separating gaseous mixtures into their constituents. I. H Levin 1,917,891; July 11
Separator D. A. Sillers. 1,917,606; July 11.
Servo-motor for automobiles or the like, Electro. J. Bethenod. 1,917,488; July 11.
Sewage sludges, Treatment of. H. G. Gilliland. 1,917,516; July 11.
Sewing machine. G. A. Herdter. 1,917,840; July 11.
Sewing machine. W. Myers. 1,917,771; July 11.
Sewing machine, Blind stitch. K. Maier. 1,917,726; July 11.
Sewing machine, Book. K. S. Hoge. 1,917,647; July 11.
Sewing machine, Feed-off-arm. G. M. Eames. 1,917,756; July 11.
Sewing machines, Fabric guide for. H. Hacklander and F. F. Seler. 1,917,711; July 11.
Sewing machines, Feeding mechanism for. G. M. Eames. 1,917,757; July 11.
Sewing machines, Folder for. R. J. Sailer. 1,917,776; July 11.
Shade and supporting the same, Lamp. J. E. Richmond. 1,917,544; July 11.
Shade, Roller. H. H. Koller. 1,917,449; July 11.
Shake mechanism for paper making machines. A. Aldrich. 1,917,288; July 11.

Sharpener, Razor blade. S. Rhea. 1,918,132; July 11.
Sheet metal container. J. M. Young. 1,917,284; July 11.
Sheller, Corn. A. B. Dieterich. 1,917,636; July 11.
Shelving construction. J. E. Bales. 1,917,917; July 11.
Shield for spectacles, Glare. E. B. Redman. 1,917,900; July 11.
Shipping and dispensing container for sheet material. M. D. Lee and H. M. Thomas. 1,917,876; July 11.
Shock absorber, Hydraulic. N. F. Hadley. 1,918,034; July 11.
Shock absorber, Pneumatic. P. W. Kane. 1,917,589; July 11.
Shoe dressing machine. J. T. Uden. 1,917,470; July 11.
Shoe horn. H. Josephs. Des. 90,286; July 11.
Shoe shank stiffener. R. B. Bartels and O. H. L. Thelen. 1,917,485; July 11.
Shoe shining machine. J. T. Uden. 1,917,471; July 11.
Shoe tree. M. von Astholz and T. Concha. 1,917,347; July 11.
Shooting machine, Coin freed automatic. F. C. H. Hansen. 1,917,445; July 11.
Shore. E. C. Childers. 1,917,828; July 11.
Shovel, Excavating. H. J. Brendlin. 1,917,492; July 11.
Sickle guard and shield. C. J. Scranton, jr. 1,917,604; July 11.
Sign: *See*—
Aerial sign. Electric sign.
Sign globe. A. H. Stewart. 1,917,672; July 11.
Signaling system. J. J. Gilbert. 1,917,882; July 11.
Silk, Device for the treatment of artificial. F. Paschke and P. Franzen. 1,917,729; July 11.
Sink for kitchen cabinets. A. P. Woolfolk. 1,918,074; July 11.
Snap fastener and fastener installation. R. M. Prez. 1,917,852; July 11.
Snap fastener installation, Separable. M. F. Carr. 1,917,825; July 11.
Soap holder. L. S. Roberts. 1,917,735; July 11.
Sodium ortho-phenyl phenate and preparing same. E. C. Britton. 1,917,749; July 11.
Sole and making same, Composite rubber. W. F. Schacht. 1,917,737; July 11.
Sound employing a separate source of electrical energy, Recording. S. C. Whitman. 1,917,280; July 11.
Sound recording and producing method. S. C. Whitman. 1,917,279; July 11.
Sound track mechanism. J. C. Kroesen. 1,917,653; July 11.
Sound transmitting and sound absorbing construction. J. J. Sullivan. 1,918,149; July 11.
Spark apparatus. P. E. Klopsteg. 1,917,847; July 11.
Spark plug. J. H. Hyde. 1,917,888; July 11.
Speed control, Apparatus for. H. W. Dreyer. 1,917,295; July 11.
Speed regulator for revolving doors. R. L. Blanchard. 1,918,176; July 11.
Speed transmission, Change. F. C. Thompson. 1,917,343; July 11.
Spinning, doubling, twisting and the like, yarns, fibers, and the like. T. E. Andrew and M. Langstreth. 1,917,914; July 11.
Spoon or other article of flatware. E. T. Beck. Des. 90,277; July 11.
Spring. W. Beck. 1,917,486; July 11.
Spring for cars. S. O. Jakobsen. 1,917,373; July 11.
Spring gib. A. G. Decker. 1,917,926; July 11.
Spring suspension for chairs. C. C. Meutsch. 1,917,313; July 11.
Springs and the like, Covering. K. W. Mayhew and M. E. Holloway. 1,918,189; July 11.
Sprinkler. W. A. Buckner. 1,917,632; July 11.
Stand: *See*—
Portable picture screen stand.
Starter control, Engine. C. D. Turner. 1,917,817; July 11.
Starting system and control for hydro-carbon engines, Automatic. G. A. Gillen. 1,917,580; July 11.
Stay for lock keepers, Automatic. J. E. Phillips. 1,918,129; July 11.
Steam boiler. H. A. Ulrich. 1,917,617; July 11.
Steel, Structural. A. Klinkenberg. 1,917,527; July 11.
Steering gear, Hydraulic. A. R. Kuzelewski. 1,917,528; July 11.
Stereoculator. E. O. Boquist and W. E. F. Straubel. 1,918,177; July 11.
Stitch. L. H. Wild. 1,917,412; July 11.
Stocking frame for embroidering machines. A. P. Hahnel. 1,917,935; July 11.
Stoker. H. M. Swindler. 1,917,404; July 11.
Stoker, Automatic. G. A. Kohout. 1,917,375; July 11.
Stoker, Automatic. E. Krieger. 1,917,652; July 11.
Stop and cab signal system, Train. A. E. Hudd. 1,917,372; July 11.
Storage battery. G. L. Kyle. 1,918,044; July 11.
Storage device, Gas or liquid. J. H. Wiggins. 1,917,622; July 11.
Storage tank for volatile gases and liquids. J. H. Wiggins. 1,917,623; July 11.
Striker plate. L. K. Church. 1,917,240; July 11.
Structural joint. F. Goerts and L. E. Baltzley. 1,917,365; July 11.
Submersible apparatus for the rescue of those entombed in sunken vessels. M. Palisca. 1,917,850; July 11.
Sulphur and iron oxide, Recovery of. R. F. Bacon and H. T. Hotchkiss, jr. 1,917,789; July 11.
Sulphur arsenic compounds, Condensation of. N. E. Lenander. 1,917,725; July 11.
Sulphur-bearing ores, Treating. D. W. Bowers. 1,918,178; July 11.
Sulphur burner. I. Bencowits. 1,917,692; July 11.
Sulphur, Colloidal, hydrophilic. H. C. Young. 1,917,351; July 11.
Sulphur dioxide, Production of. I. Bencowits. 1,917,693; July 11.
Sulphur, Recovery of. R. F. Bacon and I. Bencowits. 1,917,224; July 11.
Sulphur, Recovery of. R. F. Bacon and I. Bencowits. 1,917,226–7; July 11.
Sulphur, Recovery of. R. F. Bacon and I. Bencowits. 1,917,234; July 11.
Sulphur, Recovery of. R. F. Bacon and I. Bencowits. 1,917,235; July 11.
Sulphur, Recovery of. R. F. Bacon and I. Bencowits. 1,917,685–6; July 11.
Sulphur, Recovery of. R. F. Bacon and R. Fanelli. 1,917,225; July 11.
Sulphur, Recovery of. R. F. Bacon and R. Fanelli. 1,917,230–1; July 11.
Sulphur, Recovery of. R. F. Bacon and R. Fanelli. 1,917,787–8; July 11.
Sulphur, Recovery of. R. F. Bacon and H. T. Hotchkiss, jr. 1,917,232; July 11.
Sulphur, Recovery of. R. F. Bacon and H. T. Hotchkiss, jr. 1,917,687; July 11.
Sulphur, Recovery of. K. M. Baum. 1,917,688–9; July 11.
Supercharger. D. Gregg. 1,917,444; July 11.
Support: *See*—
Electric fuse plug support. Outlet box support.
Insulator support. Motor support.
Support for culinary appliances. O. M. Anderson. Des. 90,276; July 11.
Support for culinary appliances. F. W. Juengst and O. M. Anderson. 1,918,186; July 11.
Support for Venetian blind head rails, Universal center. W. W. Zingg. 1,917,416; July 11.
Support of record table, Nonvibratory. R. C. Burt. 1,917,633; July 11.
Supporting bracket. F. Miadowicz. 1,918,120; July 11.
Swimming appliance with flap drive. H. W. Hofius. 1,918,185; July 11.
Swimming device. A. J. Szumkowski. 1,917,613; July 11.
Switch: *See*—
Centrifugal mercury switch. Fuse switch
Electric switch. Safety switch.
Flow switch. Wall switch.
Switch. A. R. Yeschick. 1,917,786; July 11.
Switch operating means. C. S. Haddlesay. 1,917,887; July 11.
System of distribution. R. Tröger. 1,918,066; July 11.
Table leg construction. J. E. Bales and C. T. Christensen. 1,917,916; July 11.
Tag. M. H. Margoluis. 1,917,989; July 11.
Tank: *See*—
Lubricator supply tank.
Tank anchor for tank cars. V. Willoughby. 1,917,912; July 11.
Tank anchor for welded tanks. C. H. Folmsbee. 1,917,931; July 11.
Tank construction. L. L. Brooks. 1,917,494; July 11.
Taximeter. A. Ripoll. 1,917,646; July 11.
Telecommunication system. G. Viard. 1,918,152; July 11.
Telegraph printer. L. F. Jaquith. 1,917,804; July 11.
Telegraph repeater circuit. R. B. Hearn. 1,917,885; July 11.
Telephone lineman's test set. H. L. Whitley. 1,917,479; July 11.
Telephone set. A. Kysal. 1,917,724; July 11.
Telephone system. J. B. Draper. 1,917,879; July 11.
Telephone system. J. F. Ostline. 1,917,390; July 11.
Telephone system. W. Saville. 1,917,551; July 11.
Telephone system. L. J. Stacy. 1,917,869; July 11.
Telephone system, Call charging. A. E. Hague. 1,917,884; July 11.
Temper in cutting slots, Drawing. C. J. Coberly. 1,917,497; July 11.
Temperature gradient up the shaft of a furnace, Controlling the. C. C. Furnas. 1,917,642; July 11.
Template. G. H. Chester. 1,917,239; July 11.
Terminal, Cord. N. H. Watts. 1,918,071; July 11.
Terminal, Electrical cord. N. H. Watts. 1,918,070; July 11.
Testing apparatus, Brake. B. Twyman. 1,918,219; July 11.
Testing apparatus, Vehicle. C. E. Starr. 1,918,068; July 11.
Textile fabric or similar article. J. M. Gottesman. Des. 90,282; July 11.
Textile fabrics. Apparatus for treating. J. H. Andresen. 1,917,419; July 11.
Textile mechanism. E. J. Abbott. 1,917,221; July 11.
Thermionic tube. K. W. Daumann. 1,917,708; July 11.

Thermometer. A. J. Otto. 1,917,457; July 11.
Thermometer. M. Philipsen. 1,918,180; July 11.
Thermostat control. S. G. Frantz, B. S. McCutchen, and W. V. Roberts. 1,917,880; July 11.
Thermostatic control device. J. Marchese and W. R. Eames. 1,917,658; July 11.
Thread. S. J. Hayes. 1,917,938; July 11.
Threshing machine. A. J. Griffin. 1,917,583; July 11.
Threshing machine. S. McIntire. 1,917,586; July 11.
Ticket, Railroad. A. R. Jorgenson and R. O. Moody. 1,917,720; July 11.
Tie-rod ends, Making. F. C. Crawford and G. H. Hufferd. 1,917,502; July 11.
Timer for airplane engines. W. E. Schwarzmann. 1,917,907; July 11.
Tire pressure indicator. J. H. Hardy. 1,918,035; July 11.
Tire stand. J. T. Mullen. 1,917,596; July 11.
Tire valve, Automobile. W. T. Conrad. 1,917,499; July 11.
Toilet paper rack. H. D. Fairchild. 1,917,641; July 11.
Tool: *See*—
Machine tool. Processing tool.
Mortising tool.
Tool handle, Scraping. S. M. Bookman. 1,917,490; July 11.
Tool-holder or tool set. C. Vallone. 1,917,409; July 11.
Tooth base with laterally interlocked points, Excavating. J. O. Clark. 1,917,431; July 11.
Toer, Transmission. I. W. Marshall. 1,917,594; July 11.
Toy. A. G. Redmond. 1,917,599; July 11.
Toy. L. Turchanyi. Des. 90,301; July 11.
Toy, Mechanical. R. J. Naue. 1,918,122; July 11.
Tractor. A. and L. Weber. 1,918,221; July 11.
Tractor attachments. C. P. Langdon. 1,917,944; July 11.
Tractor bus body. G. M. Schantz and W. P. Diefenderfer. 1,917,396; July 11.
Transmission. E. A. Ward. 1,917,477; July 11.
Transmission. H. T. Woolson. 1,918,166; July 11.
Transmission case construction. H. T. Woolson. 1,918,167; July 11.
Transmission line. F. D. Rhodes. 1,917,600; July 11.
Transmission mechanism, Automatic freewheeling. F. W. Cotterman. 1,917,501; July 11.
Trap: *See*—
Catch basin trap. Rock trap.
Refrigerator trap.
Traversing means for winding machines. J. O. McKean. 1,918,210; July 11.
Tray, Ash. E. Bowerman. 1,917,491; July 11.
Tread member for tire chains. H. D. Weed. 1,917,744; July 11.
Treating articles of work, Apparatus for. H. Rosenberg. 1,918,136; July 11.
Truck mounted elevator. W. W. Weber. 1,917,621; July 11.
Truck, Refuse disposal. A. F. Masury. 1,917,382; July 11.
Tube: *See*—
Cathode energising, discharge tube. Luminous tube.
Hot cathode electron discharge tube. Photo electric tube.
Tube, Luminous. L. L. Beck. 1,918,012; July 11.
Tube structure, Collapsible. H. B. Finley. 1,917,833; July 11.
Tube with optical slits, Discharge. C. O. Browne. 1,917,495; July 11.
Tubes for conducting liquids. F. G. Hehr. 1,917,941; July 11.
Tubes, Machine for manufacturing stiff spiral. W. T. Scarritt. 1,918,137; July 11.
Tubes, Method and apparatus for drawing. J. V. Giesler. 1,917,708; July 11.
Tufting machine. L. A. Smith. 1,917,334; July 11.
Turbine, Hydraulic. H. S. Messing. 1,917,538; July 11.
Turn-up-table. K. Spits. 1,917,336; July 11.
Type bed bearer. C. B. Johnson. 1,917,719; July 11.
Typewriter, Noiseless. C. A. Joerissen. 1,918,106; July 11.
Typewriting machine. J. J. Kittel. 1,917,800; July 11.
Typewriting machine. J. J. Kittel. 1,917,984–5; July 11.
Typewriting machine. A. G. F. Kurowski. 1,917,943; July 11.
Typewriting machine. S. L. Walsoe. 1,917,784; July 11.
Ultra violet lamp. J. W. Marden and H. C. Rentschler. 1,917,848; July 11.
Undergarment, Lady's. C. Stolz. 1,917,908; July 11.
Vacuum tube filament structure. F. S. McCullough. 1,917,991; July 11.
Valve: *See*—
Automatic gas shut off valve. Gas valve.
Automobile tire valve. Pressure controlled valve.
Brake valve. Pressure fluid controlled valve.
Control valve.
Valve. W. H. D. Spears. 1,917,816; July 11.
Valve and operating means therefor. E. M. Hartman. 1,917,936; July 11.
Valve and operating means therefor. E. M. Hartman. 1,918,184; July 11.
Valve for rotary filters. S. E. Woodworth. 1,917,818; July 11.
Valve mechanism, Float controlled. F. D. and H. Pfening, jr. 1,918,128; July 11.
Vaporizing machine. W. Hamlet. 1,917,712; July 11.
Vault, Burial. A. C. Frits. Des. 90,280; July 11.
Vehicle. J. Ginsberg. 1,917,932; July 11.
Vehicle bed attachment, Motor. W. A. Scott. 1,917,777; July 11.
Vehicle, Motor. E. G. Purdy. 1,917,460; July 11.
Vehicle, Self-propelled road. E. T. J. and P. J. R. Tapp. 1,917,469; July 11.
Vending machine. C. Walker. 1,918,154; July 11.
Ventilator: *See*—
Continuous ridge ventilator.
Vibrator, Investment. W. J. Clark. 1,918,018; July 11.
Violin. E. H. Chase. 1,918,084; July 11.
Viscose, Making. O. Herrmann. 1,917,646; July 11.
Wall structure, Metal tile. H. R. Spencer. 1,918,228; July 11.
Wall switch. F. E. Johnson. 1,917,843; July 11.
Washing machine. A. W. Altorfer. 1,917,628; July 11.
Washing machine, Revolvable hull. W. J. Byrne. 1,917,858; July 11.
Water cooler. G. S. Ranstead. 1,918,131; July 11.
Water cooler, Drinking. M. J. Goulooze. Des. 90,283; July 11.
Water heater. J. L. Huber. 1,917,586; July 11.
Water marking device. W. J. Pippert. 1,918,055; July 11.
Water power, Utilizing. J. Boysen. 1,917,793; July 11.
Water softening apparatus. A. J. Dotterweich. 1,918,225; July 11.
Water tube boiler. C. E. Lucke. 1,917,533; July 11.
Wax sweating plant. H. L. Allan. 1,918,009; July 11.
Welding apparatus, Electric arc. J. F. Lincoln. 1,917,531; July 11.
Well equipment. W. J. Crites and D. R. Knowlton. 1,917,701; July 11.
Wet classifier, Rotary. H. Hardinge. 1,917,300; July 11.
Wheel: *See*—
Resilient wheel.
Wheel balancing. B. Cataline. 1,917,575; July 11.
Wheel chair. C. C. Steiger. 1,917,557; July 11.
Windmill. K. H. Leash. 1,917,655; July 11.
Windmill construction. J. S. Baker. 1,917,631; July 11.
Window frame. T. A. Kemp. 1,917,845; July 11.
Window frame comprising slidable sashes. T. J. Anderson. 1,918,010; July 11.
Window latch. H. Lorensen. 1,918,114; July 11.
Window screen. H. E. Williams, H. L. Garrigues, and W. F. Richardson. 1,918,073; July 11.
Wire drawing machine. P. W. Dillon. 1,917,219; July 11.
Windrowing machine. A. Apel. 1,917,352; July 11.
Wood, Apparatus for grinding. C. O. Bachman. 1,917,420; July 11.
Wood drill with cutter transversely adjustable in the drill shank. C. Wiehagen. 1,918,202; July 11.
Work, Apparatus for treating and handling. H. Rosenberg. 1,917,547; July 11.
Wrench. J. F. Cameron. 1,917,293; July 11.
Yarn with even shrinkage. R. Elssner. 1,917,512–13; July 11.
Yeast, Manufacturing. J. F. Wroten. 1,917,283; July 11.

CLASSIFICATION OF PATENTS

ISSUED JULY 11, 1933

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 32: 1,917,337
2— 27: 1,917,543
78: 1,917,906
138: 1,917,971
146: 1,917,551
4— 113: 1,918,093
150: 1,917,773
165: 1,917,712
172: 1,917,614
187: 1,918,074
5— 119: 1,917,777
120: 1,917,518
139: 1,918,085
8— 19: 1,917,419
20: 1,917,326
9— 6: 1,917,267
17: 1,917,613
18: 1,918,185
12—128.1: 1,917,347
13— 10: 1,917,730
35: 1,917,849
15— 30: 1,917,471
31: 1,917,470
104.09: 1,917,383
134: 1,918,215
137: 1,918,069
209: 1,918,101
210: 1,917,490
257: 1,918,135
16— 85: 1,917,740
1,918,170
121: 1,917,319
1,917,320
128: 1,917,321
163: 1,918,040
18— 8: 1,917,729
13: 1,918,127
18: 1,917,261
1,917,262
40: 1,917,892
47.5: 1,918,140
48: 1,917,361
51: 1,918,171
53: 1,917,804
54: 1,917,515
55: 1,917,413
1,917,451
59: 1,917,737
1,917,929
19— 76: 1,917,954
95: 1,917,896
131: 1,917,699
20— 11: 1,917,845
1,918,010
18: 1,918,176
19: 1,917,415
69: 1,918,134
22— 1: 1,917,866
63: 1,917,872
188: 1,917,759
1,918,089
1,918,090
189: 1,917,387
23— 3: 1,918,153
51: 1,917,265
87: 1,917,222
1,917,228
1,917,231
97: 1,917,233
119: 1,917,915
126: 1,917,945
136: 1,917,725
146: 1,918,178
149: 1,918,110
162: 1,918,088
179: 1,917,603
200: 1,917,223
1,917,229
1,917,664
1,917,780
217: 1,917,762
1,918,039
224: 1,917,224
1,917,226
1,917,226
1,917,227
1,917,232
23— 224: 1,917,787
1,917,788
226: 1,917,230
1,917,234
1,917,235
1,917,351
1,917,685
1,917,686
1,917,687
1,917,688
1,917,699
277: 1,918,033
278: 1,917,692
283: 1,917,717
288: 1,917,716
1,917,718
1,918,080
24— 6: 1,918,115
153: 1,917,560
205: 1,918,229
213: 1,917,852
247: 1,917,377
25— 41: 1,917,738
131: 1,918,182
142: 1,917,924
156: 1,917,964
26— 2: 1,917,555
27— 13: 1,917,587
28— 1: 1,917,937
35: 1,917,221
29— 87.1: 1,917,878
88.2: 1,918,189
90: 1,917,925
152: 1,917,267
1,917,502
30— 1: 1,917,662
9: 1,917,731
12: 1,917,220
1,917,812
1,918,227
32— 4: 1,917,902
33— 55: 1,917,645
76: 1,917,278
77: 1,918,216
98: 1,917,252
194: 1,917,230
199: 1,917,301
34— 24: 1,917,512
1,917,513
35: 1,917,467
35— 12: 1,917,846
36— 76: 1,917,485
37— 80: 1,917,506
116: 1,917,955
135: 1,917,492
142: 1,917,431
145: 1,918,160
40— 23: 1,917,989
32: 1,917,328
86: 1,917,977
127: 1,917,978
130: 1,917,956
131: 1,917,672
158: 1,917,922
43— 17: 1,917,707
24: 1,917,408
49: 1,917,967
45— 2: 1,918,194
3: 1,918,195
11: 1,917,916
28: 1,917,735
51: 1,917,336
116: 1,917,526
137: 1,917,601
138: 1,917,825
1,917,853
46— 14: 1,917,464
37: 1,917,509
40: 1,918,122
48— 66: 1,917,839
180: 1,918,168
49— 63: 1,917,247
50— 23: 1,917,698
51— 56: 1,917,504
73: 1,918,132
80: 1,918,111
51— 97: 1,917,468
124: 1,918,020
165: 1,918,147
1,918,198
170: 1,917,863
1,917,906
184.3: 1,918,077
190: 1,917,303
275: 1,917,329
53— 3: 1,918,117
10: 1,918,051
55— 84: 1,918,213
56— 7: 1,917,549
23: 1,917,352
25: 1,917,556
26: 1,917,782
126: 1,917,583
298: 1,917,604
351: 1,917,770
362: 1,917,765
58— 52: 1,918,057
130: 1,918,041
60— 52: 1,917,528
61— 25: 1,918,015
53: R. 18,893
69: 1,917,850
62— 5: 1,917,751
12: 1,917,634
80: 1,918,046
91.5: 1,917,865
1,917,866
1,917,873
1,917,877
126: 1,917,667
129: 1,917,537
141: 1,917,927
1,918,131
63— 20: 1,917,325
65— 53: 1,917,953
66— 117: 1,918,183
134: 1,917,763
67— 7.1: 1,917,759
23: 1,918,098
68— 9: 1,917,362
1,918,230
15: 1,917,628
38: 1,917,358
70— 8: 1,917,973
47: 1,917,778
90: 1,918,093
91: 1,917,436
92: 1,917,302
127: 1,917,393
1,917,608
1,917,609
1,917,620
1,917,656
71— 6: 1,917,690
8: 1,917,516
9: 1,918,233
72— 16: 1,917,592
122: 1,917,529
73— 81: 1,917,637
87: 1,917,710
51: 1,917,597
1,917,847
1,918,063
1,918,319
52: 1,917,457
1,918,120
74— 6: 1,917,650
14: 1,917,274
1,917,435
1,917,701
17: 1,917,772
1,917,858
33: 1,917,715
1,917,928
56: 1,918,167
58: 1,917,343
1,918,166
59: 1,917,501
1,917,507
81: 1,918,218
97: 1,917,477
99: 1,917,469
1,918,300
74— 108: 1,917,706
75— 1: 1,917,378
1,917,527
1,918,064
14: 1,917,942
17: 1,917,642
45: 1,918,011
76— 104: 1,917,353
108: 1,918,060
5: 1,917,842
77— 22: 1,918,150
23: 1,917,616
62: 1,917,668
63: 1,917,831
80— 1: 1,918,207
14: 1,917,448
81— 134: 1,917,293
82— 1: 1,917,748
18: 1,918,138
1,918,139
21: 1,917,905
83— 11: 1,917,525
73: 1,918,205
75: 1,917,420
91: 1,917,523
84— 274: 1,918,084
85— 5: 1,918,107
7: 1,918,148
87— 5: 1,917,489
1,918,224
6: 1,917,734
9: 1,917,875
88— 1: 1,918,087
14: 1,917,379
16.2: 1,917,398
1,917,397
17: 1,917,408
20: 1,918,177
22: 1,917,500
24: 1,917,246
1,917,360
1,917,369
41: 1,917,900
89— 1: 1,917,813
1,917,814
40: 1,917,994
91— 12.6: 1,917,918
43: 1,918,103
45: 1,917,767
46: 1,917,957
68: 1,917,755
70.1: 1,917,271
92— 7: 1,918,181
11: 1,917,545
20: 1,917,505
40: 1,918,005
44: 1,917,287
45: 1,917,288
48: 1,918,055
8: R. 18,890
93— 30: 1,917,374
1,917,558
42: 1,917,920
55: 1,918,214
94— 1.8: 1,918,099
23: 1,918,155
27: 1,917,808
30: 1,917,573
95— 1.1: 1,917,406
2: 1,918,206
40: 1,917,578
44: 1,918,143
1,918,206
53: 1,917,245
61: 1,917,330
89: 1,918,061
96— 17: 1,918,175
97— 56: 1,917,944
59: 1,917,333
230: 1,917,733
98— 13: 1,917,299
42: 1,917,218
50: 1,917,439
51: 1,917,721
94: 1,917,327
113: 1,918,008
116: 1,917,340
99— 2: 1,918,081
99— 8: 1,917,454
13: 1,917,249
1,917,250
1,917,251
1,917,252
1,917,253
1,917,254
1,917,255
1,917,256
1,917,257
1,917,258
1,917,259
1,917,260
1,917,273
100— 19: 1,917,241
101— 140: 1,917,370
250: 1,917,719
102— 2: 1,917,263
6: 1,917,540
42: 1,917,996
103— 7: 1,917,690
45: 1,917,455
119: 1,917,821
123: 1,917,524
161: 1,917,783
104— 91: 1,917,836
104: 1,917,837
105— 62: 1,917,714
280: 1,917,785
360: 1,917,913
362: 1,917,912
1,917,931
367: 1,917,314
106— 8: 1,917,709
22: 1,917,815
37: 1,917,399
40: 1,917,405
107— 54: 1,917,483
108— 8: 1,917,930
110— 32: 1,917,375
40: 1,917,652
109: 1,917,404
111— 18: 1,917,654
67: 1,918,172
112— 20: 1,917,711
1,917,726
21: 1,917,647
79: 1,917,334
103: 1,917,935
140: 1,917,776
212: 1,917,840
215: 1,917,757
228: 1,917,771
255: 1,917,411
258: 1,917,755
262: 1,917,412
113— 1: 1,917,270
7: 1,917,359
8: R. 18,890
35: 1,918,137
50: 1,917,901
1,918,197
116: 1,917,570
114— 32: 1,917,434
66.5: 1,917,446
206: 1,918,119
115— 18: 1,917,503
116— 57: 1,917,959
117— 23: 1,917,914
53: 1,917,938
119— 33: 1,918,125
37: 1,917,576
44: 1,917,389
52: 1,917,371
120— 29: 1,918,217
43: 1,917,572
47: 1,917,508
106: 1,917,423
113: 1,917,281
121— 5: 1,917,335
122— 39: 1,918,113
235: 1,917,275
268: 1,917,533
1,917,664
326: 1,917,617
123— 2: 1,917,429
123— 18: 1,918,174
32: 1,917,883
53: 1,917,758
55: 1,917,791
108: 1,917,790
139: 1,918,075
1,918,076
148: 1,917,907
169: 1,917,888
176: 1,917,500
179: 1,917,501
1,917,817
190: 1,917,816
196: 1,917,605
126— 99: 1,917,702
180: 1,917,559
127— 37: 1,917,539
128— 29: 1,917,940
77: 1,917,794
84: 1,917,661
96: 1,918,022
131: 1,917,570
142: 1,917,958
145: 1,917,961
291: 1,917,979
129— 16: 1,917,980
130— 7: 1,917,636
21: 1,917,536
131— 51: 1,917,491
1,918,068
132— 33: 1,917,549
1,917,550
43: 1,917,341
136— 81: 1,918,044
137— 21: 1,917,936
1,918,184
68: 1,918,126
112: 1,917,941
153: 1,917,316
1,917,619
160: 1,917,542
141— 1: 1,918,048
7: 1,917,350
9: 1,917,829
144— 81: 1,918,067
145— 47: 1,917,779
127: 1,918,202
148— 9: 1,917,497
1,917,750
31: 1,917,723
152— 11.5: 1,918,035
12: 1,917,499
14: 1,917,744
48: 1,918,032
153— 1: 1,917,743
32: 1,917,624
154— 2: 1,917,456
4: 1,917,296
1,917,543
42: 1,917,430
44: 1,918,149
45.5: 1,917,824
49: 1,917,426
155— 22: 1,917,440
30: 1,917,557
95: 1,918,190
179: 1,917,313
182: 1,917,904
184: 1,917,970
101: 1,917,264
156— 14: 1,917,579
1,918,073
16: 1,917,449
17: 1,917,416
33: 1,917,528
157— 6: 1,917,585
158— 4: 1,917,392
119: 1,917,897
159— 16: 1,917,841
164— 6.5: 1,917,630
23: 1,918,059
44: 1,918,104
61: 1,917,806
68: 1,917,976
75: 1,917,889

169— 1: 1,918,161
167— 28: 1,917,754
56: 1,917,698
73: 1,918,042
1,918,052
1,918,053
87: 1,918,158
169— 4: 1,917,694
31: 1,918,191
170— 26: 1,917,655
46: 1,917,631
110: 1,917,793
163: 1,917,610
171— 95: 1,918,023
97: 1,917,532
119: 1,917,295
1,917,473
1,917,474
1,918,021
206: 1,917,482
209: 1,917,552
229: 1,917,472
172— 86: 1,917,607
152: 1,917,462
237: 1,918,096
238: 1,918,173
245: 1,918,019
246: 1,917,618
278: 1,917,289
281: 1,917,921
173— 251: 1,917,600
266: 1,918,036
321: 1,917,322
332: 1,918,126
343: 1,917,638
361: 1,917,683
1,918,070
1,918,071
174— 87: 1,917,629
177: 1,917,498
175— 21: 1,918,092
41.5: 1,917,487
183: 1,917,417
1,917,465
1,918,001
245: 1,918,008
320: 1,917,418
363: 1,917,453
1,918,105
375: 1,917,580
176— 122: 1,917,495
1,918,012
177— 351: 1,917,244
178— 1: 1,917,304
2: 1,918,043
4.1: 1,917,294
6: 1,917,509
7: 1,918,124
33: 1,917,308
44: 1,917,947
71: 1,917,885
179— 1: 1,917,882
1,917,960
6.31: 1,917,884
9: 1,917,551
16: 1,917,403
18: 1,917,390
29: 1,917,479
84: 1,917,889
87: 1,917,879
100: 1,917,724
100.3: 1,917,279
1,917,280
1,917,306
1,917,653
1,918,102
100.11: 1,917,806
115.5: 1,918,164
170: 1,918,152
171: 1,917,237
1,917,394
1,917,426
180— 44: 1,918,221
64: 1,917,894
69: 1,917,460
181— 22: 1,917,309
182— 4: 1,917,805
8: 1,917,344
183— 2.7: 1,917,606
7: 1,917,522
10: 1,918,006
21: 1,917,895
90: 1,917,310
107: 1,917,857
111: 1,917,643
115: 1,917,891
184— 3: 1,918,144
1,918,146
6: 1,917,564
17: 1,917,949
37: 1,918,145
187— 1: 1,918,024
9: 1,917,602
188— 46: 1,917,342
56: 1,917,354
71: 1,917,990
78: 1,917,864
1,917,951
81: 1,917,215
88: 1,917,589
138: 1,917,489
152: 1,917,671
234: 1,917,820
250: 1,917,911
1,917,993
189— 15: 1,917,388
22: 1,917,594
36: 1,917,365
46: 1,917,871
56: 1,917,811
85: 1,918,228
190— 41: 1,917,458
192— 3: 1,918,025
6: 1,917,459
48: 1,917,775
58: 1,917,972
1,918,163
105: 1,917,484
137: 1,918,037
194— 2: 1,917,386
9: 1,917,445
70: 1,918,154
83: 1,917,385
195— 30: 1,917,521
32: 1,917,283
196— 7: 1,917,899
19: 1,917,910
20: 1,918,009
36: 1,917,648
37: 1,917,736
53: 1,917,324
59: 1,917,705
107: 1,917,357
197— 22: 1,917,800
27: 1,918,106
73: 1,917,984
1,917,985
113: 1,917,727
114: 1,917,943
128: 1,917,784
143: 1,917,635
198— 10: 1,917,368
11: 1,917,514
29: 1,917,966
64: 1,917,827
165: 1,917,659
220: 1,917,923
199— 52: 1,918,000
200— 4: 1,918,199
16: R. 18,894
26: 1,917,623
33: 1,917,481
50: 1,917,567
51: 1,917,803
1,917,909
67: 1,917,843
76: 1,917,786
80: 1,917,581
81: 1,917,317
87: 1,918,232
200— 91: 1,918,203
97: 1,918,030
114: 1,917,790
115.5: 1,917,745
121: 1,917,407
127: 1,917,315
1,917,781
134: 1,917,860
1,917,861
1,917,862
139: 1,917,656
150: 1,917,887
1,918,151
201— 55: 1,917,675
59: 1,918,013
63: 1,918,078
65: 1,917,331
76: 1,918,050
202— 7: 1,918,162
30: 1,917,384
42: 1,917,391
160: 1,917,272
221: 1,917,330
204— 1: 1,918,159
5: 1,917,657
205— 8: 1,917,708
14: 1,917,219
206— 16: 1,917,409
1,918,027
1,917,427
44: 1,917,349
1,917,741
52: 1,918,109
58: 1,917,376
66: 1,917,838
78: 1,917,603
209— 18: 1,917,819
144: 1,917,266
318: 1,917,996
452: 1,917,300
210— 24: 1,918,225
38: 1,917,704
199: 1,917,818
202: 1,917,606
211— 24: 1,917,596
32: 1,917,588
78: 1,918,056
95: 1,918,120
135: 1,917,564
136: 1,917,917
213— 9: 1,917,874
1,917,876
33: 1,917,626
214— 1.1: 1,917,709
18: 1,917,478
1,917,746
1,918,029
75: 1,917,621
215— 95: 1,917,946
217— 52: 1,918,157
77: 1,917,494
122: 1,917,903
219— 4: 1,918,028
1,918,212
1,918,226
8: 1,917,531
22: 1,917,305
34: 1,917,461
47: 1,918,209
220— 1: 1,917,363
4: 1,917,764
36: 1,917,298
65: 1,917,217
82: 1,917,541
85: 1,917,622
1,918,100
91: 1,917,284
221— 16: R. 18,801
23: 1,918,112
47.1: 1,917,238
1,917,966
60: 1,917,366
1,917,670
1,917,833
221— 95: 1,917,364
103: 1,918,049
1,918,103
223— 19: 1,917,520
28: 1,918,192
224— 2: 1,917,844
225— 9: 1,917,582
35: 1,917,678
226— 18: 1,917,571
75: 1,918,118
77: 1,917,796
87: 1,918,196
229— 6: 1,917,496
1,917,506
14: R. 18,892
1,917,886
17: 1,918,088
51: 1,917,402
55: 1,917,975
230— 58: 1,917,760
154: 1,917,444
232— 4: 1,917,517
9: 1,917,615
233— 21: 1,917,792
46: 1,917,422
234— 6: 1,917,810
235— 1: 1,917,974
3: 1,917,332
1,917,355
8: 1,917,356
28: 1,917,511
30: 1,917,546
79: 1,917,476
84: 1,918,198
91: 1,917,269
92: 1,917,679
134: 1,917,732
236— 15: 1,917,345
1,917,346
38: 1,917,880
92: 1,917,893
238— 244: 1,917,832
240— 2: 1,917,761
4.1: 1,918,047
7.1: 1,917,665
7.45: 1,917,292
8.18: 1,917,990
10.1: 1,918,123
11.3: 1,918,223
25: 1,918,031
48.4: 1,917,560
78: 1,917,612
138: 1,917,544
242— 43: 1,918,210
55.3: 1,917,641
66: 1,918,016
157: 1,917,640
244— 2: 1,917,530
1,917,933
12: 1,917,428
14: 1,918,204
17: 1,917,551
19: 1,917,995
25: 1,917,574
29: 1,918,082
30: 1,918,079
246— 63: 1,917,372
168: 1,918,231
247— 7: 1,917,242
15: 1,917,950
21: 1,917,450
248— 2: 1,917,826
14.2: 1,917,644
20: 1,918,186
41: 1,918,003
250— 2: 1,917,200
1,917,291
1,917,395
6: 1,917,995
8: 1,917,312
11: 1,918,180
14: 1,917,798
1,918,160
20: 1,917,208
1,917,881
260— 27: 1,917,722
1,917,728
27.8: 1,917,708
1,917,730
1,917,854
1,917,855
1,917,903
1,917,991
1,917,997
33: 1,917,307
1,917,948
34: 1,917,433
1,917,635
1,917,851
35: 1,917,848
36: 1,917,243
1,917,697
261— 164: 1,917,983
165: 1,917,981
1,917,982
253— 143: 1,917,538
254— 16: 1,918,017
51: 1,917,663
98: 1,917,919
125: 1,918,220
177: 1,917,691
255— 19: 1,918,097
28: 1,918,096
45: 1,918,065
257— 150: 1,918,211
165: 1,917,802
180: 1,918,086
240: 1,917,895
254: 1,917,586
259— 72: 1,918,018
101: 1,917,867
260— 2: 1,917,869
3: 1,917,248
4: 1,917,713
8: 1,918,222
12: 1,918,002
31: 1,917,466
47: 1,917,475
58: 1,917,421
61: 1,917,414
64: 1,917,265
1,917,266
1,917,311
77: 1,917,519
86: 1,917,443
95: 1,917,432
1,917,442
1,917,535
100: 1,917,646
101: 1,917,380
1,917,381
1,917,401
102: 1,917,398
106: 1,917,681
112: 1,917,338
122: 1,917,410
1,917,660
124: 1,917,800
127: 1,917,463
128: 1,917,801
128.6: 1,917,424
129: 1,917,441
135: 1,917,676
1,917,677
145: 1,917,400
154: 1,917,740
1,917,823
156: 1,917,323
161: 1,917,822
170: 1,917,627
261— 29: 1,917,577
34: 1,917,582
114: 1,918,005
262— 28: 1,917,318
263— 16: 1,917,807
23: 1,917,856
265— 26: 1,918,026
35: 1,918,091
266— 4: 1,917,547
1,918,126
266— 27: 1,917,988
44: 1,917,662
267— 1: 1,917,486
2: 1,917,373
8: 1,918,094
11: 1,918,141
37: 1,917,753
54: 1,917,797
268— 63: 1,918,054
272— 18: 1,917,611
84: 1,917,566
1,918,142
273— 65: 1,917,534
1,917,535
67: 1,918,179
73: 1,917,220
77: 1,917,774
80: 1,917,705
85: 1,917,700
102: 1,918,094
274— 2: 1,917,554
9: 1,917,833
10: 1,918,062
29: 1,917,830
276— 15: 1,917,276
277— 70: 1,917,768
278— 141: 1,917,948
279— 53: 1,917,752
280— 33.1: 1,917,396
106.5: 1,917,382
150: 1,917,962
158: 1,917,673
281— 43: 1,917,720
282— 34: 1,918,045
285— 94: 1,917,742
120: 1,917,553
146: 1,917,939
183: 1,917,992
286— 8: 1,917,674
1,918,121
287— 58: 1,918,108
289— 1: 1,917,214
290— 38: 1,917,565
292— 160: 1,917,438
242: 1,918,114
263: 1,918,072
338: 1,918,129
340: 1,917,240
1,918,165
354: 1,917,437
294— 67: 1,918,007
90: 1,917,669
296— 23: 1,917,824
24: 1,917,932
97: 1,917,799
137: 1,917,695
299— 69: 1,917,632
74: 1,917,934
107.6: 1,918,201
131: 1,917,216
301— 5: 1,917,575
302— 34: 1,918,133
303— 19: 1,918,014
304— 2: 1,918,116
20: 1,917,809
1: 1,917,747
306— 3: 1,917,926
54: 1,917,510
73: 1,917,277
86: 1,917,447
127: 1,917,909
137: 1,918,156
187: 1,917,987
1,917,988
212: 1,917,452
242: 1,918,187
309— 29: 1,917,699
312— 71: 1,917,480
86: 1,917,563
1,917,952
181: 1,917,297

U. S. GOVERNMENT PRINTING OFFICE: 1933

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abilena Company, The, Abilene, Kans. Mineral water crystals. Serial No. 336,204; July 18. Class 6.

Adler, Carl G., doing business as Tri-Pur Company, Bay City, Mich. Aspirin, castor oil, etc. Serial No. 336,588; July 18. Class 6.

Air-Way Electric Appliance Corporation, Toledo, Ohio. Vacuum cleaners and parts. Serial No. 337,105; July 18. Class 21.

Allcock Manufacturing Co., Ossining, N. Y. Medicated porous plasters. Serial No. 337,207; July 18. Class 6.

Allied Petroleum Corporation, Warren, Pa. Lubricating oils. Serial No. 338,304; July 18. Class 15.

American Needle & Novelty Co., Chicago, Ill. Baseball caps. Serial No. 332,871; July 18. Class 39.

American Silver Company, The, Bristol, Conn. Silver plated tableware. Serial No. 337,010; July 18. Class 28.

Apple Growers Association, Hood River, Oreg. Canned fruit. Serial No. 335,917; July 18. Class 46.

Axton-Fisher Tobacco Co., The, Louisville, Ky. Cigarettes. Serial No. 338,552; July 18. Class 17.

B & J Specialties Co. Inc., Albany, N. Y. Gingerbread mix, bran muffin mix, etc. Serial No. 337,502; July 18. Class 46.

B. V. D. Company, Inc., The, Baltimore, Md. Handkerchiefs. Serial No. 338,179; July 18. Class 42.

Battin-Quinn Paper Company, Minneapolis, Minn. Refrigerators. Serial No. 338,509; July 18. Class 31.

Bell Mfg. Co. (See Northern Industrial Chemical Company.)

Ben-Burk, Inc., Boston, Mass. Nonalcoholic, maltless beverages, syrups, etc. Serial No. 337,908; July 18. Class 45.

Bennett Fireplace Corporation, Norwich, N. Y. Fireplace screen. Serial No. 338,396; July 18. Class 13.

Bentley, Harold W., New York, N. Y. Book supporting device. Serial No. 337,002; July 18. Class 32.

Best & Co., Inc., New York, N. Y. Wearing apparel. Serial No. 337,820; July 18. Class 39.

Brill, George L., doing business as Great Eastern Laboratories, Baltimore, Md. Insect spray. Serial No. 338,132; July 18. Class 6.

Bristol Aeroplane Company Limited, The, Bristol, England. Aircraft engines. Serial No. 336,493; July 18. Class 23.

Broom & Newman, New York, N. Y. Shirts, shorts, and pajamas. Serial No. 338,133; July 18. Class 39.

Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigarette tobacco. Serial No. 326,705; July 18. Class 17.

Brownstein, Henry J., doing business as Hysan Products Company, Chicago, Ill. Disinfectants and insecticides. Serial No. 333,819; July 18. Class 6.

Burnham, Frederick E., Belmont, Mass. Solution for treatment of burns. Serial No. 337,993; July 18. Class 6.

Buromin Company, The, Pittsburgh, Pa. Water softening chemical. Serial No. 338,354; July 18. Class 6.

Caliph Mineral Water Salts Company, Salmon, Idaho. Mineral water salts and stomach tablets. Serial No. 337,666; July 18. Class 6.

Calumet Refining Co., Chicago, Ill. Insecticide. Serial No. 337,945; July 18. Class 6.

Cervello & Rodrigues, doing business as Nic Projector Corporation, New York, N. Y. Toy motion picture projector. Serial No. 333,623; July 18. Class 22.

Clough, Lyle A., Flint, Mich., assignor to Uncold Laboratories Inc., Flint, Mich. Ointment for treatment of colds, burns, etc. Serial No. 337,600; July 18. Class 6.

Cole Chemical Company, Wilmington, Del., and St. Louis, Mo. Hormone solutions. Serial No. 332,004; July 18. Class 6.

Continental Blade Corporation, Brooklyn, N. Y. Razors and blades. Serial No. 338,282; July 18. Class 23.

Continental Oil Company, Ponca City, Okla. Gasoline, kerosene, etc. Serial No. 336,426; July 18. Class 15.

Coudurier, Fructus & Descher, Lyon, France. Velvets in the piece. Serial No. 334,599; July 18. Class 42.

Cravenette Company, U. S. A., The, Hoboken, N. J. Leather. Serial No. 338,451; July 18. Class 1.

Cristofor Packing Co., San Francisco, Calif. Ravioli and spaghetti. Serial No. 338,361; July 18. Class 46.

Curran, Francis J., doing business as The Zoro Company, Oak Park, Ill. Toilet bowl deodorants, etc. Serial No. 336,756; July 18. Class 6.

Cushing Grocery Company, Hastings, Nebr. Tea. Serial No. 337,732; July 18. Class 46.

Detroit Alloy Steel Company, Detroit, Mich. Cast steel and steel castings. Serial No. 338,078; July 18. Class 14.

Diamond Match Company, The, New York, N. Y. Matches. Serial Nos. 338,723–35; July 18. Class 9.

Dublin Brothers, Boston, Mass. Cigarettes. Serial No. 335,154; July 18. Class 17.

Dupont Pharmacy, Inc., Washington, D. C. Maltless beverages and syrups. Serial No. 338,688; July 18. Class 45.

Eastern Outfitting Co. of Los Angeles, Cal., Los Angeles, Whittier, Pasadena, and Huntington Park, Calif. Laundry washing machines. Serial No. 335,501; July 18. Class 24.

Elco Products Corporation, Chicago, Ill. Cordials. Serial No. 337,291; July 18. Class 49.

Elk Brewing Company, Kittanning, Pa. Beer, ale, etc. Serial No. 338,487; July 18. Class 48.

Elliott Addressing Machine Company, Cambridge, Mass. Addressing machines, etc. Serial No. 338,365; July 18. Class 23.

Ely & Walker Dry Goods Company, St. Louis, Mo. Cotton piece goods. Serial No. 337,691; July 18. Class 42.

Fashion Park Manufacturing Corporation, Rochester, N. Y. Coats, vests, pants, etc. Serial No. 338,452; July 18. Class 39.

Fischer Baking Company, Newark, N. J. Bread. Serial No. 336,344; July 18. Class 46.

Fitzpatrick, Jeremiah, East Weymouth, Mass. Lasts for boots and shoes. Serial No. 338,563; July 18. Class 50.

Friscia, Jacob, Brooklyn, N. Y. Preparation for growing hair. Serial No. 338,601; July 18. Class 6.

Fullerizing, Inc., Cleveland, Ohio. Dry cleaning preparation. Serial No. 336,822; July 18. Class 4.

Gautier Freres, Aigre, France. Cognac brandy. Serial No. 337,513; July 18. Class 49.

Glascock Brothers Mfg. Co., Muncie, Ind. Dispensing coolers. Serial No. 338,602; July 18. Class 31.

Golden Gate Manufacturing Company, New York, N. Y. Valves, faucets, keys, vents, etc. Serial No. 338,694; July 18. Class 13.

Goldman, Morris, doing business as M. Goldman Shoe Company, St. Louis, Mo. Shoes. Serial No. 337,148; July 18. Class 39.

Great Eastern Laboratories. (See Brill, George L.)

Greenberg, David, doing business as Neway Products Corp., Chicago, Ill. Germicides, insecticides, etc. Serial No. 337,607; July 18. Class 6.

Hammermill Products, Inc., Erie, Pa. Composition flooring. Serial No. 338,412; July 18. Class 12.

Harper, Lorena K., doing business as Scram Products Company, Detroit, Mich. Cleaning compound for woodwork, painted walls, etc. Serial No. 335,105; July 18. Class 4.

Harris, Herbert H., New York, N. Y. Cosmetics. Serial Nos. 337,782–3; July 18. Class 6.

Hayes, Edmund W., Boston, Mass. Envelopes. Serial No. 338,188; July 18. Class 37.

Herrmann, J. C., Bottling Works, Sharon, Pa. Nonalcoholic beverages, syrups, etc. Serial No. 338,886; July 18. Class 45.

Hogan, Joseph P., Rochester, N. Y. Candy. Serial No. 337,427; July 18. Class 46.

Hoge Manufacturing Company, New York, N. Y. Toy automobiles and vehicles. Serial No. 338,414; July 18. Class 22.

Home Facilities, Inc., Los Angeles, Calif. Hangers for ties. Serial No. 336,985; July 18. Class 50.

Hysan Products Company. (See Brownstein, Henry J.)

Illinois Bottled Gas Company, Chicago, Ill. Bottled cooking gas. Serial No. 334,013; July 18. Class 6.

International Association of Municipal Electricians, Columbia, S. C. Jewelry. Serial No. 328,355; July 18. Class 28.

Jameson, William, & Co. Ltd., London, England. Whisky. Serial No. 338,657; July 18. Class 49.

Johnson Manufacturing Company, The, Urbana, Ohio. Instruments for indicating humidity. Serial No. 338,319; July 18. Class 26.

Jones, Jennie E. P., New York, N. Y. Hair growing preparation. Serial No. 338,496; July 18. Class 6.

Key's Chile Parlor, Jacksonville, Fla. Canned chile con carne, etc. Serial No. 336,326; July 18. Class 46.

Knorpp, Philip J., Brooklyn, N. Y. Game. Serial No. 335,963; July 18. Class 22.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Krebs, Ernest T., San Francisco, Calif. Powder to be used for injection into malignant cancerous growths, etc. Serial No. 337,611; July 18. Class 6.
Kress, S. H., & Co., New York, N. Y. Cotton print piece goods, etc. Serial No. 337,567; July 18. Class 42.
Kress, S. H., & Co., New York, N. Y. Cotton piece goods. Serial No. 337,953; July 18. Class 42.
Kress, S. H., & Co., New York, N. Y. Cotton piece goods. Serial No. 337,955; July 18. Class 42.
Kress, S. H., & Co., New York, N. Y. Cotton piece goods. Serial No. 337,958; July 18. Class 42.
Lakeland-Highlands Co-Operative Association, Highlands City, Fla. Fresh citrus fruits. Serial No. 337,474; July 18. Class 46.
La Verne Co-Operative Citrus Association, La Verne, Calif. Fresh citrus fruits. Serial No. 338,373; July 18. Class 46.
Leghorn Trading Co. Inc., New York, N. Y. Edible oils. Serial No. 336,568; July 18. Class 46.
Lewis, William B., Pickens, S. C. Insecticide. Serial No. 337,923; July 18. Class 6.
Lion Specialty Company, Chicago, Ill. Candy. Serial No. 338,525; July 18. Class 46.
Losana Products, Ltd., Los Angeles, Calif. Medicinal preparation. Serial No. 337,750; July 18. Class 6.
Los Angeles Soap Co., Los Angeles, Calif. Soap. Serial No. 338,526; July 18. Class 4.
Lubrax Oil Corporation, Brooklyn, N. Y. Motor lubricants. Serial No. 336,329; July 18. Class 15.
Luby, Joseph M., Chicago, Ill. Periodical. Serial No. 338,323; July 18. Class 38.
M. & N. Cigar Manufacturers, Inc., Cleveland, Ohio. Cigars. Serial No. 337,924; July 18. Class 17.
Macdonald & Muir, Leith, Scotland. Whisky. Serial No. 337,857; July 18. Class 49.
Macy, R. H., & Co., Inc., New York, N. Y. Suits and sweaters. Serial No. 333,231; July 18. Class 39.
Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. Serial No. 338,011; July 18. Class 42.
Martin, J. B., Company, Norwich, Conn. Warp pile fabric in the piece. Serial No. 332,725; July 18. Class 42.
Marvel Chemical Mfg. Co. (See Spiropulos, Constantine T.)
Match King, Inc., Chicago, Ill. Lamps. Serial No. 338,096; July 18. Class 34.
Maynard, John E., doing business as Ed Maynard, Plymouth, N. H. Outer garments. Serial No. 330,957; July 18. Class 39.
McClelland, T. & A., Limited, Bladnoch, Wigtownshire, Scotland. Scotch whisky. Serial No. 336,092; July 18. Class 49.
McDaniel & Sons, Yuma, Ariz. Cantaloupes, vegetables. Serial No. 338,377; July 18. Class 46.
McLaurin-Jones Co., Brookfield, Mass. Gummed tape. Serial No. 321,690; July 18. Class 37.
Monopole Vineyards Corporation, Rheims and New York, N. Y. Wines. Serial No. 338,326; July 18. Class 47.
Monopole Vineyards Corporation, Rheims and New York, N. Y. Wines. Serial No. 338,332; July 18. Class 47.
Mueller, Max, New York, N. Y. Artificial straw, plaiting fiber and horsehair in the unwoven state. Serial No. 322,921; July 18. Class 1.
Multigraph Company, Cleveland, Ohio. Printing machines. Serial No. 338,424; July 18. Class 23.
Neumann, E., & Company, Hoboken, N. J. Leather. Serial Nos. 338,460–1; July 18. Class 1.
Neustadtl, Victor, New York, N. Y. Beer. Serial No. 338,288; July 18. Class 48.
Neway Products Corp. (See Greenberg, David.)
Nic Projector Corporation. (See Cervello & Rodriguez.)
Nippon Shono Kabushiki-Kaisha, Kobe, Japan. Camphor and camphor oil. Serial No. 337,306; July 18. Class 6.
North American Polish Company, The, Cleveland, Ohio. Metal polish. Serial Nos. 337,572–3; July 18. Class 4.
Northern Industrial Chemical Company, doing business as Bell Mfg. Co., Boston, Mass. Tableware. Serial No. 338,334; July 18. Class 2.
Nostrand Products Co. Inc., Brooklyn, N. Y. Malt beverages. Serial No. 338,392; July 18. Class 48.
Nozaki Bros. & Co., Ltd., Yokohama, Japan. Canned crabs, tuna, etc. Serial No. 338,105; July 18. Class 46.
Oestreich, Abraham A., doing business as Travis Co., New York, N. Y. Shaving cream. Serial No. 337,977; July 18. Class 4.
Ohio Oil Co., The, Findlay, Ohio. Gasoline, fuel oil, etc. Serial Nos. 337,801–2; July 18. Class 15.
Paraguay Tea, Inc., Miami, Fla. Yerba mate tea. Serial No. 335,032; July 18. Class 46.
Patino, Jose, Tampa, Fla. Cigars. Serial No. 338,536; July 18. Class 17.
Pierce, S. S., Co., Boston, Mass. Toilet preparations. Serial No. 336,662; July 18. Class 6.
Pollen, M. P., & Zoon, Rotterdam, Netherlands. Gin, Brandy, etc. Serial No. 338,432; July 18. Class 49.
Pro-Phy-Lac-Tic Brush Company, Northampton, Mass. Tooth brushes. Serial No. 337,269; July 18. Class 29.
Reid, Wright & Holloway (Distillers) Limited, London, England. Gin. Serial No. 338,616; July 18. Class 49.
Reid, Wright & Holloway (Distillers) Limited, London, England. Scotch whisky. Serial No. 338,617; July 18. Class 49.
Reid, Wright & Holloway (Distillers) Limited, London, England. Gin. Serial No. 338,618; July 18. Class 49.
Rhineland Beverage Company, Port Chester, N. Y. Beer. Serial No. 337,969; July 18. Class 48.
Rhoades, P. W., South Sudbury, Mass. Animal repellant. Serial No. 337,709; July 18. Class 6.
Riverview Products, Inc., Niagara Falls, N. Y. Malt beverages. Serial No. 338,465; July 18. Class 48.
Robbins, C. H. D., Co. Inc., New York, N. Y. Dresses. Serial No. 337,441; July 18. Class 39.
Roberts-Wicks Company, Utica, N. Y. Overcoats, raincoats, suits, etc. Serial No. 338,435; July 18. Class 39.
Rock-Ola Mfg. Corporation, Chicago, Ill. Amusement device. Serial No. 337,932; July 18. Class 22.
Romany Herb Products, Inc., Atlanta, Ga. Vegetable compound. Serial No. 333,300; July 18. Class 6.
Royer, Eugene, Lyon, France. Gas apparatus for medical, etc., purposes. Serial No. 334,886; July 18. Class 44.
Rupper, G. & W., Aktiengesellschaft, Herischdorf i/Riesengebirge, Germany. Bitters, cordials, etc. Serial No. 334,538; July 18. Class 49.
St. Clair Rubber Co., Marysville, and Detroit, Mich. Flexible mold material. Serial No. 335,886; July 18. Class 1.
Sampsel, Arthur V., La Fayette, Ind. Automatic stokers. Serial No. 338,437; July 18. Class 34.
Savarese, James, New York, N. Y. Beverage cooling and dispensing apparatus. Serial No. 335,174; July 18. Class 31.
Scheiper Bros., Brooklyn, N. Y. Medicinal preparation. Serial No. 336,579; July 18. Class 6.
Schmid, Julius, New York, N. Y. Vaginal jelly. Serial No. 337,686; July 18. Class 6.
Scovill Manufacturing Company, Waterbury, Conn. Lipstick container. Serial No. 332,312; July 18. Class 2.
Scram Products Company. (See Harper, Lorena K.)
Sears, Roebuck and Co., Chicago, Ill. Laundry washing machines and ironing machines. Serial No. 336,999; July 18. Class 24.
Sherwood Distilling and Distributing Company, The, Baltimore, Md. Distilled liquors, particularly whiskey. Serial No. 338,378; July 18. Class 49.
Siegel, A., & Sons Inc., New York, N. Y. Cigars. Serial No. 338,585; July 18. Class 17.
Slawson, Alexander, New York, N. Y. Veterinarian medicines. Serial No. 325,971; July 18. Class 6.
Spiropulos, Constantine T., doing business as Marvel Chemical Mfg. Co., New York, N. Y. White shoe cleaner. Serial No. 336,234; July 18. Class 4.
Staatliche Mineralbrunnen Siemens Erben, Berlin, Germany. Mineral waters. Serial No. 335,947; July 18. Class 45.
Sterling Products Company, Evansville, Ind. Malt products. Serial No. 334,270; July 18. Class 48.
Structural Gypsum Corporation, New York, N. Y. Fire-resistant and waterproof composition material for interior or exterior walls, etc. Serial No. 338,379; July 18. Class 12.
Syl-Vette, Inc., Wheeling, W. Va. Preparation for treatment of obesity. Serial No. 337,052; July 18. Class 6.
Teel, Anna L., Bangor, Pa. Cleaning and polishing preparation for eyeglasses, etc. Serial No. 337,937; July 18. Class 4.
Touma, Assied, doing business as A. Touma, East Portchester, Conn. Medicinal preparation. Serial No. 337,720; July 18. Class 6.
Tri-Fur Company. (See Adler, Carl G.)
Uncle Sam Laboratories, Dallas, Tex., Washington, D. C., and Los Angeles, Calif. Scalp oil, scalp tonic. Serial No. 331,825; July 18. Class 6.
Uncoid Laboratories Inc. (See Clough, Lyle A.)
United Laboratories, Ltd., Pasadena, Calif. Prepared food consisting of wheat, etc. Serial Nos. 337,866–7; July 18. Class 46.
United States Brewing Co. of Chicago, Chicago, Ill. Malt beverages. Serial Nos. 337,765–6; July 18. Class 48.
Urado Products Company, Salt Lake City, Utah. Medicinal oils. Serial No. 335,655; July 18. Class 6.
Vereinigte Wachswarenfabriken A. G., Ditzingen near Stuttgart, Germany. Shoe paste and polish, leather and shoe oil, etc. Serial No. 333,341; July 18. Class 4.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Hosiery Serial No. 338,385; July 18. Class 39.
Wattles, Frank E., Buffalo, N. Y. Eggs. Serial No. 338,386; July 18. Class 46.
White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Dental plaster. Serial No. 333,093; July 18. Class 44.
White-Stokes Co. Inc., Chicago, Ill. Confectioner's paste for candies. Serial No. 338,210; July 18. Class 46.
Winthrop Chemical Company, Inc., New York, N. Y. Preparation for antisoriatic, etc. Serial No. 335,432; July 18. Class 6.
Wurlitzer Grand Piano Company, De Kalb, Ill. Boats. Serial No. 338,443; July 18. Class 19.
Zoro Company, The. (See Curran, Francis J.)

LIST OF REGISTRANTS OF TRADE-MARKS

Acme-Evans Co. of Louisville, Incorporated, Louisville, Ky. Wheat flour. 304,720; July 18; Serial No. 325,546; published May 9, 1933. Class 46.
Adorable Frocks, Inc., New York, N. Y. Dresses, coats, suits, etc. 304,784; July 18; Serial No. 334,726; published Apr. 25, 1933. Class 39.
Allen Industries, Inc., Detroit, Mich. Floor coverings and rug cushions. 304,719; July 18; Serial No. 325,394; published May 9, 1933. Class 50.
American Agricultural Chemical Company, assignor to The American Agricultural Chemical Company, New York, N. Y. Fertilizers. 93,146; renewed Aug. 26, 1933.
American Agricultural Chemical Company, The, assignor to The American Agricultural Chemical Company, New York, N. Y. Fertilizers. 93,514; renewed Sept 23, 1933.
American Curatex Corporation, Quincy, Mass. Compounded latex sizing. 304,791; July 18; Serial No. 334,481; published May 2, 1933. Class 5.
American Manufacturing Company, Boston, Mass., and New York, N. Y., to American Manufacturing Company, Brooklyn, N. Y. Clothes-lines. 91,928–30; renewed June 10, 1933.
American Safety Razor Corporation, Brooklyn, N. Y. Safety razors and blades. 304,914; July 18. Class 23.
American Society of Marine Engineers, San Francisco, Calif. Publication. 304,892; July 18; Serial No. 335,758; published May 2, 1933. Class 38.
American Society of Refrigerating Engineers, The, New York, N. Y. Publication. 304,752; July 18; Serial No. 334,899; published May 2, 1933. Class 38.
Ams, Max, Incorporated, New York, N. Y. Fruit preserves and apple butter. 304,846; July 18; Serial No. 335,183; published May 9, 1933. Class 46.
Anderson, Ernest H., doing business as Jamestown Specialty Mfg., Jamestown, N. Y. Furniture. 304,841; July 18; Serial No. 333,786; published May 2, 1933. Class 32.
Anglo-Indian Drug & Chemical Co., assignor to Anglo-Indian Drug and Chemical Company, Bombay, India. Hair oil. 92,618; renewed July 22, 1933.
Arlington Sample Book Company, Philadelphia, Pa. Silverware chests. 304,896; July 18; Serial No. 335,493; published May 2, 1933. Class 2.
Armstrong Cork & Insulation Company, Lancaster, Pa. Bottle and jar closures. 304,756; July 18; Serial No. 336,062; published May 9, 1933. Class 50.
Artray. (See Raymond, Arthur B.)
Associated Food Industries, Portland, Oreg. Seasoning for food purposes. 304,838; July 18; Serial No. 333,840; published May 9, 1933. Class 46.
Atkins, E. C., and Company, Indianapolis, Ind. Cutlery, machinery, etc. 92,033; renewed June 17, 1933.
Bancroft, Joseph, & Sons Company, Wilmington, Del. Window shade fabrics. 304,828; July 18; Serial No. 332,289; published Apr. 18, 1933. Class 42.
Barker Bros. Incorporated, Los Angeles, Calif. Refrigerators. 304,715; July 18; Serial No. 326,925; published Nov. 15, 1932. Class 31.
Barnard, Neal G., Minneapolis, Minn. Device for assembling jig-saw puzzles. 304,863; July 18; Serial No. 335,309; published May 2, 1933. Class 22.
Beech-Nut Packing Company, Canajoharie, N. Y. Coffee. 304,902; July 18; Serial No. 335,559; published Apr. 25, 1933. Class 46.
Berets, Paul G., Olympia, Wash. Fishing, casting, and trolling spoon. 304,808; July 18; Serial No. 333,023; published May 2, 1933. Class 22.
Best Malt Products Company, Chicago, Ill. Malt syrup. 304,716; July 18; Serial No. 327,128; published May 9, 1933. Class 46.
Blakeslee, G. S., & Co., Cicero, Ill. Solvents. 304,878; July 18; Serial No. 335,664; published May 2, 1933. Class 6.
Bohland & Fuchs, Graslitz, Czechoslovakia. Bugles, cornets, altos, etc. 304,869; July 18; Serial No. 335,412; published Apr. 25, 1933. Class 36.
Borden's Condensed Milk Co., assignor to Borden Quality Inc., New York, N. Y. Milk, malted milk, etc. 40,692; renewed June 30, 1933.
Bosch, Robert, Aktiengesellschaft, Stuttgart, Germany. Magneto-electric and battery ignition systems. 304,917; July 18. Class 21.
Bradley, William E., doing business as Holphast Company, Newark, N. J. Powder for holding artificial teeth in the mouth. 304,911; July 18. Class 6.
Braun, Walter C., San Francisco, Calif. Malt beverage. 304,778; July 18; Serial No. 335,802; published May 9, 1933. Class 46.
Bryn-Halden & Nitedals Tændstikfabrik A/S. (See Nitedals Tændstikfabrik.)
Burnett, Joseph, Co., Boston, Mass. Vanilla food flavoring extract. 304,729; July 18; Serial No. 307,578; published May 9, 1933. Class 46.
Byram, Ira T., jr., doing business as The Hopfheiser Co., Washington, D. C. Malt beverage. 304,768; July 18; Serial No. 336,110; published May 2, 1933. Class 48.
Caballero, Luis, Chipiona, Spain. Brandies and other potable beverages. 304,766; July 18; Serial No. 336,074; published May 9, 1933. Class 49.
Caballero, Luis, Chipiona, Spain. Distilled alcoholic liquors. 304,882; July 18. Serial No. 335,718; published May 9, 1933. Class 49.
Caballero, Luis, Chipiona, Spain. Wines. 304,881; July 18; Serial No. 335,714; published May 9, 1933. Class 47.
Calibron Products, Inc., West Orange, N. J. Puzzles. 304,759; July 18; Serial No. 336,031; published May 2, 1933. Class 22.
Campbell, Andrew C., Inc., Bridgeport, Conn. Abrasive cutting machine. 304,871; July 18; Serial No. 335,445; published May 9, 1933. Class 23.
Canoga Citrus Association, Canoga Park, Calif. Fresh citrus fruit. 304,818; July 18; Serial No. 329,500; published May 9, 1933. Class 46.
Capital City Products Company, The, Columbus, Ohio. Refined pure vegetable oil. 304,832; July 18; Serial No. 331,668; published May 9, 1933. Class 46.
Cates, Chas. F., & Sons, Inc., Falson, N. C. Pickles, honey, fresh strawberries, and peaches packed in sugar. 304,813; July 18; Serial No. 329,822; published May 2, 1933. Class 46.
Cauley, Thomas P., Buffalo, N. Y. Printed folders. 304,884; July 18; Serial No. 335,716; published May 2, 1933. Class 38.
Celanese Corporation of America, New York, N. Y. Fabrics of cellulose derivatives. 304,722; July 18; Serial No. 324,580; published Apr. 25, 1933. Class 42.
Chaffin Optical Company, Inc., Boston, Mass. Optical frames, mountings, and parts thereof. 304,796; July 18; Serial No. 334,303; published May 2, 1933. Class 26.
Chemical Works formerly Sandox, Basel, Switzerland, assignor to Sandox Chemical Works, Inc., New York, N. Y. Anilin colors, ammonium ichthyosulfonate, etc. 92,185; renewed June 24, 1933.
Chicago Telephone Supply Company, Elkhart, Ind. Volume controls, tone controls, and switches. 304,736; July 18; Serial No. 334,972; published Apr. 25, 1933. Class 21.
Chr.-Adt. Kupferberg & Co. Kommanditgesellschaft auf Aktien, Mains, Germany. Sparkling wines. 304,852; July 18; Serial No. 335,229; published May 2, 1933. Class 47.
Clark Tructractor Company, Buchanan, Mich. Conveying apparatus and parts thereof. 304,721; July 18; Serial No. 324,583; published May 2, 1933. Class 23.
Clark, Waldomar K., doing business as Multi-Vigor Animal Food, Millis, Mass. Food for dogs, etc. 304,798; July 18; Serial No. 334,280; published May 9, 1933. Class 46.
Colgate-Palmolive-Peet Company, Chicago, Ill. Laundry and toilet soap. 304,701; July 18; Serial No. 335,938; published May 2, 1933. Class 4.
Colgate-Palmolive-Peet Company, Chicago, Ill. Soap. 304,891; July 18; Serial No. 335,769; published May 2, 1933. Class 4.
Colophon, Ltd., The, New York, N. Y. Publications. 304,782; July 18; Serial No. 335,856; published May 2, 1933. Class 38.
Consolidated Studios, Inc., New York, N. Y. Piece goods. 304,844; July 18; Serial No. 335,159; published Apr. 18, 1933. Class 42.
Crosley Radio Corporation, The, Cincinnati, Ohio. Power devices and parts therefor. 304,749; July 18; Serial No. 334,868; published Apr. 25, 1933. Class 21.
Crowell Publishing Company, The, New York, N. Y. Magazine. 304,712; July 18; Serial No. 335,958; published May 2, 1933. Class 38.
Crusius, Hazel G., Lansing, Mich. Sandwiches. 304,839; July 18; Serial No. 333,923; published May 2, 1933. Class 46.
Cuban Coffee Mills, Inc., Shreveport, La. Coffee. 304,730; July 18; Serial No. 334,986; published May 2, 1933. Class 46.
Davis, A. Morgan, & Co., Limited, London, England. Medicinal preparation of iodine. 304,790; July 18; Serial No. 334,571; published May 9, 1933. Class 6.
Dedeck, William J., St. Louis, Mo. Preparation for reviving or repolishing all glazed surfaces. 91,858; renewed June 8, 1933.
Dick & Brothers Quincy Brewery Company, doing business as Dick & Bros. Quincy Brewery Co., Quincy, Ill. Malt beverages. 304,771; July 18; Serial No. 336,179; published May 9, 1933. Class 48.
Dinneen, W. T., doing business as Forab, Ltd., San Francisco, Calif. Medicinal tablets. 304,858; July 18; Serial No. 335,483; published May 2, 1933. Class 6.
Distillers Corporation Limited, Montreal, Quebec, Canada. Potable spirits, whiskey, and liquors. 304,745; July 18; Serial No. 331,470; published Dec. 6, 1932. Class 49.
Distillers Corporation Limited, Montreal, Quebec, Canada. Potable spirits, whiskey, and liquors. 304,833; July 18; Serial No. 331,728; published Dec. 6, 1932. Class 49.

Domestic Coke Corporation, Buffalo, N. Y. Coke. 304,876; July 18; Serial No. 335,591; published May 2, 1933. Class 1.
Dorman Long & Co., Limited, Middlesbrough, England. Unwrought and partly wrought corrosion-resisting structural metals. 304,794; July 18; Serial No. 334,351; published May 9, 1933. Class 14.
Driver-Harris Company, Harrison, N. J. Wire. 304,738; July 18; Serial No. 334,980; published Apr. 25, 1933. Class 21.
Driver-Harris Company, Harrison, N. J. Wire. 304,741; July 18; Serial No. 334,990; published Apr. 25, 1933. Class 21.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Flock surfaced, rubberized fabric. 304,870; July 18; Serial No. 335,446; published May 9, 1933. Class 50.
E-Z Tite Rubber Company, Seattle, Wash. Bottle stoppers. 304,866; July 18; Serial No. 335,354; published May 2, 1933. Class 50.
Eagle Nut Products, Inc., Brooklyn, N. Y. Candies and chocolates. 304,862; July 18; Serial No. 335,311; published May 2, 1933. Class 46.
Eclipse Machine Company, Elmira Heights, N. Y. Unitary electrical starting mechanisms, automatic starter controllers, and backfire circuit breakers, etc. 304,785–6; July 18; Serial Nos. 334,672–3; published Apr. 25, 1933. Class 21.
Edison-Splitdorf Corporation, West Orange, N. J. Spark plugs. 304,803; July 18; Serial No. 334,091; published Apr. 25, 1933. Class 21.
Eiseman, Alfred S., New York, N. Y. Piece goods, dish cloths, doilies, etc. 304,713; July 18; Serial No. 327,220; published Apr. 18, 1933. Class 42.
Elgin American Manufacturing Co., Elgin, Ill. Pocket lighters. 304,727; July 18; Serial No. 308,724; published May 9, 1933. Class 34.
Elgin National Watch Company, Elgin and Chicago, Ill., to Elgin National Watch Company, Elgin, Ill. Watch movements. 96,432; renewed Sept. 16, 1933.
Evening News Company, The, Baltimore, Md. Newspaper column. 304,760; July 18; Serial No. 334,745; published May 2, 1933. Class 38.
Exhibit Supply Company. (See Meyer, John F.)
Expello Corporation, The, Dover, N. H. Hollow cleaning implement. 304,875; July 18; Serial No. 335,592; published May 9, 1933. Class 4.
Federal Products Company. (See Solomon, Morris.)
Figge & Hutwelker Co., Glen Cove and New York, N. Y. Hams, bacon, lard, etc. 92,968–9; renewed Aug. 12, 1933.
Florence Stove Company, Gardner, Mass. Oil stoves, water heaters, oil ranges, etc. 304,821; July 18; Serial No. 328,303; May 9, 1933. Class 34.
Foote & Jenks, Inc., Jackson, Mich. Maltless beverages, and sirups and extracts for making same. 304,811; July 18; Serial No. 332,713; published May 9, 1933. Class 45.
Forab, Ltd. (See Dinneen, W. T.)
Fortnum, & Mason, Limited, London, England. Parlor board games. 304,807; July 18; Serial No. 333,328; published May 9, 1933. Class 22.
Fox, Fontaine, Manhasset, N. Y. Series of cartoons. 304,868; July 18; Serial No. 335,416; published May 2, 1933. Class 38.
Frank, S. H., & Co., San Francisco, Calif. Sole leather. 304,845; July 18; Serial No. 335,121; published May 9, 1933. Class 1.
Frank, S. M., & Co., Inc., New York, N. Y. Tobacco pipes, cigar and cigarette holders, and filters. 304,764; July 18; Serial No. 336,085; published May 9, 1933. Class 8.
Frank, S. M., & Co., New York, N. Y. Tobacco pipes, cigar and cigarette holders and filters. 304,767; July 18; Serial No. 336,984; published May 9, 1933. Class 8.
French, R. T., Company, The, assignor, by mesne assignments, to The R. T. French Company, Rochester, N. Y. Foods. 94,174; renewed Sept. 11, 1933.
Fried. Krupp Aktiengesellschaft, Essen, Germany. Metallic carbides and their alloys. 304,773; July 18; Serial No. 336,280; published May 9, 1933. Class 14.
Frosst, Charles E., and Company, Montreal, Quebec, Canada. Medicinal preparation. 304,908; July 18. Class 6.
Frost Lumber Industries, Inc., Shreveport, La. Lumber. 304,909; July 18. Class 12.
Gabriel U. Jos. Sedlmayr Spaten-Franziskaner-Leistbräu A.-G. München, Munich, Germany. Malt beverage. 304,894; July 18; Serial No. 335,777; published May 9, 1933. Class 48.
Gadget Products Corp., New York, N. Y. Toy animals and implements therefor. 304,793; July 18; Serial No. 334,420; published May 2, 1933. Class 22.
Gehman, Jesse M., doing business as Narla Company, Paterson, N. J. Lacto-dextro lubricant supplementary food. 304,820; July 18; Serial No. 328,712; published May 2, 1933. Class 46.
Gerotor Licensing Company, Baltimore, Md. Gears. 304,726; July 18; Serial No. 322,167; published May 9, 1933. Class 23.
Gilbey, W. & A. Limited, London, England. Whisky, brandy, and other potable liquors. 304,848; July 18; Serial No. 335,198; published May 9, 1933. Class 49.
Gilbey, W. & A., Limited, London, England. Gin. 304,849; July 18; Serial No. 335,197; published May 9, 1933. Class 49.
Gilbey, W. & A. Limited, London, England. Whisky. 304,851; July 18; Serial No. 335,199; published May 9, 1933. Class 49.
Globe Brewing Co., Inc., Utica, N. Y. Malt beverages. 304,825; July 18; Serial No. 335,863; published May 9, 1933. Class 48.
Graef-Cowen Corporation, The, Allentown, Pa. Metal sponges, abrasive scouring pads, cleaners, etc. 304,864–5; July 18; Serial Nos. 335,315–16; published May 9, 1933. Class 4.
Graham Paper Company, St. Louis, Mo. Bond paper. 304,772; July 18; Serial No. 336,282; published May 9, 1933. Class 37.
Gropengiesser, Kurt, Levallois-Perret, France. Hair tonic. 304,761; July 18; Serial No. 336,004; published May 9, 1933. Class 6.
Gumpert, S., & Co., New York, N. Y., assignor to S. Gumpert Co. Inc., Brooklyn, N. Y. Flavoring for cake icings. 93,846; renewed Oct. 21, 1933.
Haartz-Mason-Grower Company, Watertown, Mass. Rubberized fabrics. 304,702; July 18; Serial No. 335,961; published May 2, 1933. Class 50.
Hagen-Becker Company, St. Paul and Duluth, Minn. Malt beverages. 304,920; July 18. Class 48.
Hamilton, John G., Inc., New York, N. Y. Liquid furniture polish. 304,781; July 18; Serial No. 335,816; published May 9, 1933. Class 16.
Harvel Corporation, The, Newark, N. J. Electrical insulation compounds and fabrics. 304,904; July 18. Class 21.
Harvey, John & Robert, & Co., Limited, Glasgow, Scotland. Whisky. 304,693; July 18; Serial No. 335,092; published May 9, 1933. Class 49.
Heinz, H. J., Company, Pittsburgh, Pa. Sauces or relishes. 304,774; July 18; Serial No. 335,781; published May 2, 1933. Class 46.
Hepburn & Ross, Glasgow, Scotland. Scotch whisky. 304,740; July 18; Serial No. 334,996; published May 2, 1933. Class 49.
Holphast Company. (See Bradley, William E.)
Hopfheiser Co., The. (See Byram, Ira T., jr.)
Huggenberger, Dr. Arnold, Zurich, Switzerland. Machines, apparatus, and devices for producing, measuring, and recording statical and dynamical effects. 304,710; July 18; Serial No. 335,064; published May 2, 1933. Class 26.
Hunt, C. Howard, Pen Company, Camden, N. J. Pen points. 304,737; July 18; Serial No. 330,850; published May 9, 1933. Class 37.
Hygeia Nursing Bottle Company, Inc., Buffalo, N. Y. Canned strained vegetables. 304,730; July 18; Serial No. 308,113; published May 2, 1933. Class 46.
Illinois Baking Corporation, Chicago, Ill. Ice cream cones. 304,815; July 18; Serial No. 329,746; published May 9, 1933. Class 46.
International Resistance Company, Philadelphia, Pa. Resistors. 304,723; July 18; Serial No. 322,642; published Mar. 1, 1932. Class 21.
Jackson, Leila V., Inc., New York, N. Y. Cosmetic preparations. 304,709; July 18; Serial No. 335,026; published May 2, 1933. Class 6.
Jamestown Specialty Mfg. (See Anderson, Ernest H.)
Jayklo Brief Case Co. (See Klotz, Jacob H.)
Kahn's, E., Sons Company, The, Cincinnati, Ohio. Sausage. 304,916; July 18. Class 46.
Karagheusian, A. & M., Inc., New York, N. Y. Rugs and carpets. 304,788; July 18; Serial No. 334,661; published Apr. 11, 1933. Class 42.
Karmac Inc., doing business as National Signal System, Inc., Cleveland, Ohio. Chime signal devices. 304,910; July 18. Class 21.
Karmelkorn Corporation, Rockford, Ill. Popcorn. 304,728; July 18; Serial No. 320,728; published May 2, 1933. Class 46.
Kashins, Max, Co., Inc., New York, N. Y. Cotton piece goods. 304,847; July 18; Serial No. 335,167; published Apr. 25, 1933. Class 42.
Kaylene, Limited, London, England. Medicinal preparations. 304,850; July 18; Serial No. 335,202; published May 9, 1933. Class 6.
Kennedy, Harry C., doing business as The "Slic" Shave Company, Newark, N. J. Shaving aid preparation. 304,747; July 19; Serial No. 334,839; published May 2, 1933. Class 4.
Keuffel and Esser Company, Hoboken, N. J. Tracing paper. 40,522; renewed June 9, 1933.
Kimberly-Clark Corporation, Neenah, Wis. Construction and poster papers. 304,895; July 18; Serial No. 335,511; published May 2, 1933. Class 37.
King Features Syndicate, Inc., New York, N. Y. Cartoons. 304,757; July 18; Serial No. 336,043; published May 9, 1933. Class 38.
Kingsbury Manufacturing Company, Keene, N. H. Mechanical toys. 304,777; July 18; Serial No. 335,783; published May 2, 1933. Class 22.
Kitchenaid Manufacturing Company, The, Troy, Ohio. Electrically-driven beating, treating, and mixing machines and attachments therefor. 304,834; July 18; Serial No. 331,259; published Apr. 25, 1933. Class 21.
Kleenwax Company. (See McConniff, John R.)

Klotz, Jacob H., doing business as J. Klotz & Company, and Jayklo Brief Case Co., New York, N. Y. Luggage. 304,804; July 18; Serial No. 333,519; published May 9, 1933. Class 3.
Knox Terpesone Company of America, assignor to Knox Terpesone Company of America, New York, N. Y. Generating germicidal vapors for therapeutical purposes. 91,880; renewed June 3, 1933.
Koppers Company of Delaware, The, Pittsburgh, Pa. Coke. 304,725; July 18; Serial No. 321,957; published May 2, 1933. Class 1.
Lackman, Herman, doing business as The Herman Lackman Brewing Company, Cincinnati, Ohio. Malt beverage. 304,827; July 18; Serial No. 335,868; published May 9, 1933. Class 48.
La Fontaine, Ltd. (See La Fountain, Edward A.)
La Fountain, Edward A., doing business as La Fontaine, Ltd., Glendale, Calif. Shampoos. 304,809; July 18; Serial No. 333,246; published May 2, 1933. Class 6.
Laird & Co., Inc., Matawan, N. J. Cider. 304,700; July 18; Serial No. 335,989; published May 9, 1933. Class 45.
Laurencie's, Inc., New York, N. Y. Chocolates, candies, salted nuts, and crystallized fruits. 304,799; July 18; Serial No. 334,220; published May 2, 1933. Class 46.
Lester Piano Company, Philadelphia, Pa. Pianos and player pianos. 304,822; July 18; Serial No. 328,857; published Apr. 25, 1933. Class 36.
"Liquid Metal" Laboratories, Ltd., now by change of name "Liquid Solder" Ltd., Chicago, Ill. Adhesive cement. 304,907; July 18. Class 5.
"Liquid Solder" Ltd. (See "Liquid Metal" Laboratories, Ltd.)
Lloyd, E. E., Paper Company, Chicago, Ill. Writing paper. 304,765; July 18; Serial No. 336,089; published May 9, 1933. Class 37.
Lucas, Camilla, New York, N. Y. Art goods. 304,800; July 18; Serial No. 334,150; published May 9, 1933. Class 38.
Maas-Keefe Co., The, St. Paul, Minn. Almond paste, cocoa, canned currants, etc. 304,731; July 18; Serial No. 279,418; published May 9, 1933. Class 46.
MacChesney, Harold G., New York, N. Y. Emulsifying apparatus. 304,776; July 18; serial No. 335,786; published May 9, 1933. Class 23.
Macdonald Greenlees Limited, Leith, Scotland. Whisky. 304,748; July 18; Serial No. 334,755; published May 9, 1933. Class 49.
Maede, A. R., doing business as Schwartz Company, San Francisco, Calif. Malt beverage. 304,913; July 18. Class 48.
Maggi Co., Inc., New York, N. Y. Seasonings. 304,810; July 18; Serial No. 332,655; published May 2, 1933. Class 46.
Malden Malt Products Co. (See Mendlow, Harry J.)
Martin Manufacturing Company, West Newton, Mass. Curtains and curtain material. 304,906; July 18. Class 42.
Marx, Louis, & Company, New York, N. Y. Roller skates. 304,705; July 18; Serial No. 335,964; published May 9, 1933. Class 22.
McClaren Rubber Company, Charlotte, N. C. Tires and tubes. 304,734; July 18; Serial No. 330,601; published Nov. 15, 1932. Class 35.
McConniff, John R., doing business as Kleenwax Company, San Antonio, Tex. Floor wax. 304,743; July 18; Serial No. 330,066; published May 2, 1933. Class 16.
McKay, W. E., & Co., Inc., New York, N. Y. Textile fabrics. 304,855; July 18; Serial No. 335,242; published Apr. 25, 1933. Class 42.
Mendlow, Harry J., doing business at Malden Malt Products Co., Malden, Mass. Malt syrup and food flavoring extracts. 304,842; July 18; Serial No. 333,634; published May 2, 1933. Class 46.
Meyer, John F., doing business as Exhibit Supply Company, Chicago, Ill. Coin-controlled amusement game. 304,872; July 18; Serial No. 335,460; published May 2, 1933. Class 23.
Meyer, Wm., Co., The, Chicago, Ill. Massage machines. 304,898; July 18; Serial No. 335,514; published May 9, 1933. Class 44.
Michigan Alkali Company, Wyandotte, Mich. Coke. 304,816; July 18; Serial No. 329,805; published May 9, 1933. Class 1.
Mulligan, Norbert J., Columbus, Ohio. Malt beverage. 304,780; July 18; Serial No. 335,830; published May 2, 1933. Class 48.
Multi-Vigor Animal Food. (See Clark, Waldomar K.)
Namrod Corporation, The, New Brunswick, N. J. Mechanical toy horse. 304,829; July 18; Serial No. 335,872; published May 2, 1933. Class 22.
Narla Company. (See Gehman, Jesse M.)
National Oil Products Company, Harrison, N. J. Chemical compounds, stove polishes, shoe polishes, etc. 304,831; July 18; Serial No. 332,097; published May 2, 1933. Class 4.
National Signal System, Inc. (See Karmac Inc.)
National Skee-Ball Company, Inc., Brooklyn, N. Y. Game and parts thereof. 304,883; July 18; Serial No. 335,730; published May 2, 1933. Class 22.
Nelson Knitting Company, Rockford, Ill. Hosiery. 304,817; July 18; Serial No. 329,405; published Nov. 29, 1932. Class 39.
Newly Weds Baking Co. Inc., Chicago, Ill. Ice cream confection. 304,762; July 18; Serial No. 336,093; published May 9, 1933. Class 46.
Nitedals Tændstikfabrik, Gronvold, near Christiana, Norway, assignor to Bryn-Halden & Nitedals Tændstikfabrik A/S, Bryn, near Oslo, Norway. Matches. 91,988; renewed June 10, 1933.
Nitedals Tændstikfabrik, Gronvold, near Christiana, Norway, assignor to Bryn-Halden & Nitedals Tændstikfabrik A/S, Bryn, near Oslo, Norway. Matches. 91,990–1; renewed June 10, 1933.
Nitterhouse Brothers, Indianapolis, Ind. Sea foods. 304,903; July 18. Class 46.
Nolde and Horst Company, The, Reading, Pa. Hosiery. 304,874; July 18; Serial No. 335,585; published Apr. 25, 1933. Class 39.
Nopsta Original Ned Orleans Public School Teachers' Association, Inc., New Orleans, La. Publication. 304,746; July 18; Serial No. 334,843; published May 2, 1933. Class 38.
North American Brewing Company, Brooklyn, N. Y. Malt beverage. 304,704; July 18; Serial No. 335,967; published May 2, 1933. Class 48.
Northern Paper Mills, Green Bay, Wis. Toilet paper. 304,775; July 18; Serial No. 336,298; published May 9, 1933. Class 37.
Oxford Paper Company, New York, N. Y. Paper for printing. 304,797; July 18; Serial No. 334,335; published May 9, 1933. Class 37.
Pacific Pump Works, Huntington Park, Calif. Metal alloy. 304,711; July 18; Serial No. 335,096; published May 2, 1933. Class 14.
Pa Pro Company, The, Utica, N. Y. Word building games and puzzles. 304,695; July 18; Serial No. 335,877; published May 2, 1933. Class 22.
Pater, Joseph J., assignor, by mesne assignments, to Alphonse J. Pater, Hamilton, Ohio. Medicinal compound. 93,019; renewed Aug. 12, 1933.
Paxton and Gallagher Co., Omaha, Nebr. Cigars. 304,694; July 18; Serial No. 335,879; published May 2, 1933. Class 17.
Pedrick Laboratories Inc., Tulsa, Okla. Canned dog food. 304,714; July 18; Serial No. 327,563; published May 9, 1933. Class 46.
Penn Tobacco Company, Wilkes-Barre, Pa. Smoking tobaccos. 304,768; July 18; Serial No. 336,192; published May 9, 1933. Class 17.
Pennsylvania Lubricating Company, Pittsburgh, Pa. Paint oils. 304,770; July 18; Serial No. 336,193; published May 9, 1933. Class 16.
Pepsodent Co., The, Chicago, Ill. Food drink. 304,819; July 18; Serial No. 328,447; published May 9, 1933. Class 46.
Pfaffman Egg Noodle Co., The, Cleveland, Ohio. Egg noodles. 304,843; July 18; Serial No. 333,772; published May 9, 1933. Class 46.
Pieper, O. R., to O. R. Pieper Company, Milwaukee, Wis., successor. Foods. 93,709; renewed July 22, 1933.
Pierce-Arrow Motor Car Company, The, assignor, by mesne assignments, to The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Motor cars, etc. 92,710; renewed July 22, 1933.
Pioneer Instrument Company, Inc., Brooklyn, N. Y. Compasses. 301,708; July 18; Serial No. 335,033; published May 2, 1933. Class 26.
Pittsburgh Brewing Company, Pittsburgh, Pa. Malt beverage. 304,854; July 18; Serial No. 335,247; published May 2, 1933. Class 48.
Prentiss Wabers Products Company, Wisconsin Rapids, Wis. Gasoline pressure kitchen stoves, hot plates, camp stoves, etc. 304,699; July 18; Serial No. 335,908; published May 9, 1933. Class 34.
Pritchett, Irving H., doing business as Pritchett Brothers, Petersburg, Va. Oak chips for coloring and flavoring beverages. 304,901; July 18; Serial No. 335,566; published May 9, 1933. Class 50.
Procter & Gamble Company, The, Cincinnati, Ohio. Shortenings. 304,824; July 18; Serial No. 328,037; published May 9, 1933. Class 46.
Procter & Gamble Company, The, Cincinnati, Ohio. Sulfo derivative having cleansing and detergent properties. 304,885–6; July 18; Serial Nos. 335,785–6; published May 2, 1933. Class 4.
Raymond, Arthur B., doing business as Artray, Montclair, N. J. Puzzles and table board games. 304,856; July 18; Serial No. 335,292; published May 2, 1933. Class 22.
Raymond, Arthur B., doing business as Artray, Montclair, N. J. Jig-saw puzzles. 304,859; July 18; Serial No. 335,293; published May 9, 1933. Class 22.
Red Circle Products Co. Inc., Houston, Tex. Preparation in powder form for extermination of roaches. 304,755; July 18; Serial No. 336,054; published May 9, 1933. Class 6.
Reiss, William, Inc., New York, N. Y. Jewelry. 304,861; July 18; Serial No. 335,294; published Apr. 25, 1933. Class 28.

Riegel Textile Corporation, New York, N. Y. Cotton piece goods and diapers. 304,878; July 18; Serial No. 335,452; published May 9, 1933. Class 42.

Rosenberg, O. N., & Son, Haverstraw, N. Y. Turpentine, dryers, shellac, etc. 304,806; July 18; Serial No. 333,301; published May 2, 1933. Class 16.

Rossie Velvet Company, Mystic, Conn. Pile fabrics. 304,867; July 18; Serial No. 335,334; published May 9, 1933. Class 42.

Royal Estates Tea Co., Hoboken, N. J. Tea. 304,751; July 18; Serial No. 334,930; published May 2, 1933. Class 46.

Royal Estates Tea Co., Hoboken, N. J. Tea. 304,754; July 18; Serial No. 334,931; published May 2, 1933. Class 46.

Royal Estates Tea Co., Hoboken, N. J. Tea. 304,758; July 18; Serial No. 336,023; published May 9, 1933. Class 46.

Rubel Baking Company, The, Cincinnati, Ohio. Bread. 304,733; July 18; Serial No. 330,522; published May 9, 1933. Class 46.

Rubel Baking Company, The, Cincinnati, Ohio. Bread. 304,735; July 18; Serial No. 330,523; published May 9, 1933. Class 46.

Russell Paper Goods Company, Russell, Mass. Transparent glassine paper. 304,888; July 18; Serial No. 335,741; published May 2, 1933. Class 37.

Russell Playing Card Company, Jersey City, N. J. Cards. 304,769; July 18; Serial No. 336,133; published May 9, 1933. Class 22.

Ryan-Hampton Tobacco Company, Louisville, Ky. Cigarette and pipe tobacco. 304,698; July 18; Serial No. 335,914; published May 2, 1933. Class 17.

Sachsisches Serumwerk Aktiengesellschaft, Dresden, Germany. Medicinal preparation. 304,750; July 18; Serial No. 334,847; published May 9, 1933. Class 6.

Salomon, L. A., & Bro., New York, N. Y. Kieselguhr, infusorial earth, fossil flour, etc. 304,887; July 18; Serial No. 335,742; published May 2, 1933. Class 1.

Sanderson Brothers & Newbould, Limited, Sheffield, England. Tool steel. 92,129; renewed June 17, 1933.

Sanderson Brothers & Newbould, Limited, Sheffield, England. Cutlery, machinery, etc. 92,130; renewed June 17, 1933.

Schaefer, F. & M., Brewing Co., The, Brooklyn, N. Y. Malt beverages. 304,918; July 18. Class 46.

Schmid, Julius, Inc., New York, N. Y. Razors, razor blades, knives, forks, etc. 304,860; July 18; Serial No. 335297; published May 2, 1933. Class 28.

Schwartz Company. (See Maede, A. R.)

Scientific Products, Inc., St. Louis, Mo. Can openers. 304,890; July 18; Serial No. 335,743; published May 2, 1933. Class 23.

Scurlock Kontanerette Corporation, Chicago, Ill. Revolving group containers. 304,830; July 18; Serial No. 332,075; published May 9, 1933. Class 13.

Seagram, Joseph E., & Sons Limited, Waterloo, Ontario, Canada. Whiskey and potable spirits. 304,744; July 18; Serial No. 330,493; published Dec. 13, 1932. Class 49.

Sears, Roebuck and Co., Chicago, Ill. Portable electric drills and saws and motors. 304,812; July 18; Serial No. 332,787; published Apr. 25, 1933. Class 21.

Sears, Roebuck and Co., Chicago, Ill. Bicycles and for automobile brake sets. 304,877; July 18; Serial No. 335,692; published May 2, 1933. Class 19.

Sears, Roebuck and Co., Chicago, Ill. Gaskets, rubber hose, belting composed of rubber and fabric, and brake lining. 304,893; July 18; Serial No. 335,489; published May 9, 1933. Class 35.

Semolina Macaroni Company, Providence, R. I. Macaroni, olive oil, malt syrup, etc. 304,742; July 18; Serial No. 330,438; published May 2, 1933. Class 46.

Servel, Inc., New York, N. Y. Refrigerators and parts thereof, and refrigerating systems. 304,889; July 18; Serial No. 335,744; published May 2, 1933. Class 31.

Severin, Leo, Davenport, Iowa. Frankfurters, weiners, and sausages. 304,779; July 18; Serial No. 335,799; published May 9, 1933. Class 46.

Sheinker, W., & Son, Inc., New York, N. Y. Wines. 304,880; July 18; Serial No. 335,701; published May 9, 1933. Class 47.

Sieber, Robert, Oil Company, Racine, Wis. Furnace fuel oil. 304,912; July 18. Class 15.

Siemens & Halske Aktiengesellschaft, Berlin-Siemensstadt, Germany. Measuring and scientific apparatus. 304,837; July 18; Serial No. 330,935; published May 9, 1933. Class 26.

Siesinger, Stephen, Inc., New York, N. Y. Candle sticks, lamp shades, and lamp bases. 304,857; July 18; Serial No. 335,254; published May 2, 1933. Class 34.

"Slic" Shave Company, The. (See Kennedy, Harry C.)

Solomon, Morris, doing business as Federal Products Company, Hartford, Conn. Oil burners. 304,805; July 18; Serial No. 333,616; published May 9, 1933. Class 34.

Spiegel, May, Stern Company, Inc., Chicago, Ill. Rugs. 304,897; July 18; Serial No. 335,525; published May 9, 1933. Class 42.

Sundstrand Machine Tool Co., Rockford, Ill. Milling machines. 304,697; July 18; Serial No. 335,894; published May 9, 1933. Class 23.

Terri Cosmetics Corporation, New York, N. Y. Cosmetics. 304,802; July 18; Serial No. 334,078; published May 2, 1933. Class 6.

Thayer-Foss Company, Boston, Mass. Flexible fabrics. 304,792; July 18; Serial No. 334,414; published May 9, 1933. Class 42.

Tulare Co. Asparagus Growers Assn., Porterville, Calif. Fresh vegetables. 304,717; July 18; Serial No. 325,608; published May 9, 1933. Class 46.

Tungsten Electric Corporation, Union City, N. J. Refractory metallic compositions. 304,795; July 18; Serial No. 334,413; published May 9, 1933. Class 14.

United American Bosch Corporation, Springfield, Mass. Radio apparatus. 304,915; July 18. Class 21.

United Autographic Register Co., Chicago, Ill. Typewriter attachments. 304,840; July 18; Serial No. 333,778; published May 9, 1933. Class 23.

United States Radio & Television Corporation, Marion, Ind. Refrigerators. 304,814; July 18; Serial No. 329,916; published May 9, 1933. Class 31.

United Superior Union Company, Inc., Brooklyn, N. Y. Plumbers' unions and pipe couplings. 304,707; July 18; Serial No. 335,975; published May 9, 1933. Class 13.

Usines de L'Allondon, S. A., La Plaine, Switzerland. Artificial and synthetical perfumes, essential oils. 304,783; July 18; Serial No. 335,838; published May 2, 1933. Class 6.

Vacuumizer Manufacturing Corporation, Rochester, N. Y. Garment receptacles. 304,724; July 18; Serial No. 324,237; published May 9, 1933. Class 2.

Victorius, A. V., & Co., Inc., New York, N. Y. Hosiery. 304,789; July 18; Serial No. 334,545; published Apr. 25, 1933. Class 39.

Vivid, Incorporated, Chicago, Ill. Hectograph, typewriter, copying and wrapping paper, and pencil leads. 304,835; July 18; Serial No. 331,518; published May 2, 1933. Class 37.

Vogt Instant Freezers Incorporated, Louisville, Ky. Ice cream, water ice, sherbet, etc. 304,718; July 18; Serial No. 325,732; published May 2, 1933. Class 46.

Vve. George Goulet & Cie, Reims, France. Champagne and wines. 304,706; July 18; Serial No. 335,976; published May 2, 1933. Class 47.

Waffenfabrik Solothurn Aktiengesellschaft, Zuchwil, Switzerland. Swords, milling machines, tapping machines, etc. 304,823; July 18; Serial No. 327,743; published May 9, 1933. Class 23.

Waffenfabrik Solothurn Aktiengesellschaft, Zuchwil, Switzerland. Swords, milling machines, tapping machines, etc. 304,826; July 18; Serial No. 327,741; published May 9, 1933. Class 23.

Waldes & Co., Prague-Wrschowitz, Austria Hungary, assignor, by mesne assignments, to Waldes-Koh-I-Noor, Inc., Long Island City, N. Y. Garment fasteners. 91,922; renewed June 3, 1933.

Waldes-Koh-I-Noor, Inc. (See Waldes & Co.)

Watson, J. W., Company, New York, N. Y. Specially prepared dessert. 304,787; July 18; Serial No. 334,586; published May 2, 1933. Class 46.

Weaver, C. H., & Co., Chicago, Ill. Cantaloups and melons. 304,919; July 18. Class 46.

Webster, Wm., Fullerton, Calif. Fresh citrus fruits. 304,703; July 18; Serial No. 335,950; published May 9, 1933. Class 46.

Werner, Flora, Milwaukee, Wis. Corrective cosmetics. 304,900; July 18; Serial No. 335,535; published May 9, 1933. Class 6.

Westgate Sea Products Company, San Diego, Calif. Canned food product. 304,753; July 18; Serial No. 334,070; published May 2, 1933. Class 46.

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Vacuum tube controllers. 304,836; July 18; Serial No. 333,958; published Apr. 25, 1933; Class 21.

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Switches. 304,853; July 18; Serial No. 335,223; published Apr. 25, 1933. Class 21.

Wheat Chips Company, Spokane, Wash. Cereal breakfast foods. 304,905; July 18. Class 46.

Whitehouse, John B., New York, N. Y. Board used as a base upon which to solve jig-saw puzzles. 304,899; July 18; Serial No. 335,536; published May 2, 1933. Class 22.

Wilkin, A. S., Limited, Newcastle-upon-Tyne, England. Assortments of sweetmeats. 304,801; July 18; Serial No. 334,169; published May 2, 1933. Class 46.

Wilson and Buster, Inc., Kansas City, Mo. Floor and wall cleaner and liquid soaps. 304,696; July 18; Serial No. 335,899; published May 2, 1933. Class 4.

Wilson-Jones Company, Chicago, Ill. Loose leaf binders. 304,879; July 18; Serial No. 335,703; published May 9, 1933. Class 37.

Wixom Bros., Seeley, Calif. Sweet potatoes. 304,732; July 18; Serial No. 298,873; published May 27, 1930. Class 46.

LIST OF REGISTRANTS OF LABELS

Allen, George B., doing business as The Charpure Company, Decatur, Ga. Age' It. For Compound for Aging, Mellowing, Flavoring, and Deodorizing Beverages. 42,400; July 18.

Allen, George B., doing business as The Charpure Company, Decatur, Ga. Oak Chips. For Prepared Oak Chips for Mellowing, Flavoring, and Coloring Liquids. 42,401; July 18.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Cheese Wafers. For Cheese Wafers. 42,402; July 18.

Bevier, J. N., Oakland, Calif. Bevier's. For Preparation for the Treatment of the Scalp. 42,403; July 18.

Bird & Son, Inc., East Walpole, Mass. Rubberlike Floor Covering. For Floor Covering. 42,404; July 18.

Blood, John, & Co., Incorporated, Philadelphia, Pa. True Shape. For Hosiery. 42,405; July 18.

Brockelman Bros. Inc., Worcester, Mass. Brockelman's Countryside Butter. For Butter. 42,406; July 18.

Capone, Arthur J., New York, N. Y. Cora. For Tomato Paste. 42,407; July 18.

Charpure Company, The. (See Allen, George B.)

Chicopee Manufacturing Corporation, New Brunswick, N. J. 10 Yards Absorbent Cheesecloth. For Cheesecloth. 42,408; July 18.

Chicopee Manufacturing Corporation, New Brunswick, N. J. 5 Yards Absorbent Cheesecloth. For Cheesecloth. 42,409; July 18.

Closset & Devers, Portland, Oreg. C & D. For Coffee. 42,410; July 18.

Cousineau, M. W., Moorhead, Minn. Dakota Queen Honey. For Liquid Honey. 42,411; July 18.

Darlinton, Geo. W., San Pedro, Calif. Darlinton Finish Builder. For Polish for Enamel Surfaces and the Like. 42,412; July 18.

General Manifold and Printing Company, The, Franklin, Pa. KleanKarboN. For Carbon Paper. 42,431; July 18.

Hoague-Sprague Corporation, Lynn, Mass. M S & Co. Brand. For Boxes. 42,413; July 18.

Hoague-Sprague Corporation, Lynn, Mass. Carolyn Girl. For Boxes. 42,414; July 18.

Hysan Company, The. (See Winn, Jennie W.)

Jolly Manufacturing Company, Inc., Rochester, N. Y. Jolly Ginger Ale. For Ginger Ale. 42,415; July 18.

Kaskey, Louis G., Seattle, Wash. Kaskey's Honeyed Caramel Syrup. For Caramel Syrup. 42,416; July 18.

Kaskey, Louis G., Seattle, Wash. Kaskey's South American Butter Nut Popcorn. For Popcorn. 42,417; July 18.

Loose-Wiles Biscuit Company, Long Island City, N. Y. Rippled. For Breakfast Food. 42,418; July 18.

Lowenfels, Frederick F., & Son, New York, N. Y. Hotel Bars. For Cheese. 42,419; July 18.

Lucky Gum Company, Schenectady, N. Y. Lucky Gum "Let's Get 'Lucky'." For Gum. 42,420; July 18.

Maltop Brewing Co., Inc., Rochester, N. Y. Maltop Ale. For Ale. 42,421; July 18.

Minute Make-Up Company, Inc., Philadelphia, Pa. Special Combination Charles of the Ritz, Cleansing Cold Cream and Cleansing Tissues. For Cleansing Cold Cream and Cleansing Tissues. 42,422; July 18.

Peper, Christian, Tobacco Company, St. Louis, Mo. Century of Progress. For Tobacco. 42,423; July 18.

Pfeiffer, S., Manufacturing Company, St. Louis, Mo. Athletic Rub. For Preparation for the Relief of Rheumatic Aches and Pains, Neuralgia and Lumbago, Sprains and Strains, Insect Bites, and Muscular Soreness Due to Athletic Exercise, Exposure, and Fatigue. 42,424; July 18.

Porto Vana Cigar Co., Dallastown, Pa. A. A. G. For Cigars. 42,425; July 18.

Pruden Chemical Company, Orlando, Fla. Mytee Water Soluble Disinfectant and Deodorant. For Disinfectant and Deodorant. 42,426; July 18.

Real Silk Hosiery Mills, Inc., Indianapolis, Ind. Real Silk. For Hosiery. 42,427; July 18.

Standard Brewing Company, Inc., Rochester, N. Y. Standard Ale. For Ale. 42,428; July 18.

Stroehmann Brothers Company, Harrisburg, Pa. Stroehmann's Betty Crocker 13-Egg Recipe Angel Food. For Cake. 42,429; July 18.

Winn, Jennie W., doing business as The Hysan Company, Utica, N. Y. Hysan. For Antiseptic Toilet Powders. 42,430; July 18.

LIST OF REGISTRANTS OF PRINTS

Dayton Paper Novelty Co., The, Dayton, Ohio. Sucher's Play Meat Market. For Meat. 14,268; July 18.

Lipton, Thomas J., Inc., Hoboken, N. J. Transporting Lipton's Tea From the Gardens. For Tea. 14,269; July 18.

Lubal of the East, Charlotte, N. C. Lubal. For Lubricant to be Added to Gasoline and the Gasoline After Being Treated with the Lubricant. 14,270; July 18.

Parke, Davis & Company, Detroit, Mich. This Little Girl Has Three Parents. For Pharmaceutical and Biological Products. 14,271; July 18.

Sun Oil Company, Philadelphia, Pa. 26 U. S. Patents Protect Sunoco Motor Oil. For Motor Oil. 14,272; July 18.

U. S. Shine-Stik Inc., New York, N. Y. Shine Your Shoes. For Shoe Polish. 14,273; July 18.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coke. Domestic Coke Corporation. 304,876; July 18; Serial No. 335,591; published May 2, 1933.

Coke. Koppers Company of Delaware. 304,725; July 18; Serial No. 321,957; published May 2, 1933.

Coke. Michigan Alkali Company. 304,816; July 18; Serial No. 329,805; published May 9, 1933.

Kieselguhr, infusorial earth, fossil flour, etc. L. A. Salomon & Bro. 304,887; July 18; Serial No. 335,742; published May 2, 1933.

Leather, Sole. S. H. Frank & Co. 304,845; July 18; Serial No. 335,121; published May 9, 1933.

CLASS 2

Chests, Silverware. Arlington Sample Book Company. 304,896; July 18; Serial No. 335,498; published May 2, 1933.

Receptacles, Garment. Vacuumizer Manufacturing Corporation. 304,724; July 18; Serial No. 324,237; published May 9, 1933.

CLASS 3

Luggage. J. H. Klotz. 304,804; July 18; Serial No. 333,519; published May 9, 1933.

CLASS 4

Chemical compounds, stove polishes, shoe polishes, etc. National Oil Products Company. 304,881; July 18; Serial No. 332,097; published May 2, 1933.

Cleaner and liquid soaps, Floor and wall. Wilson and Buster, Inc. 304,696; July 18; Serial No. 335,899; published May 2, 1933.

Cleaning implement, Hollow. Expello Corporation. 304,875; July 18; Serial No. 335,592; published May 9, 1933.

Shaving aid preparation. H. C. Kennedy. 304,747; July 18; Serial No. 334,839; published May 2, 1933.

Soap. Colgate-Palmolive-Peet Company. 304,701; July 18; Serial No. 335,928; published May 2, 1933.

Soap. Colgate-Palmolive-Peet Company. 304,891; July 18; Serial No. 335,769; published May 2, 1933.

Sponges, abrasive scouring pads, cleaners, etc., Metal. Graef-Cowen Corporation. 304,864–5; July 18; Serial Nos. 335,315–16; published May 9, 1933.

Sulfo derivative having cleansing and detergent properties. Procter & Gamble Company. 304,885–6; July 18; Serial Nos. 335,735–6; published May 2, 1933.

CLASS 5

Cement, Adhesive. "Liquid Metal" Laboratories, Ltd. 304,907; July 18.

Sizing, Compounded latex. American Curatex Corporation. 304,791; July 18; Serial No. 334,481; published May 2, 1933.

CLASS 6

Anilin colors, ammonium ichtyosulfonate, etc. Chemical Works formerly Sandoz. 92,185; renewed June 24, 1933.

Cosmetic preparations. Leila V. Jackson, Inc. 304,709; July 18; Serial No. 335,026; published May 2, 1933.
Cosmetics. Terri Cosmetics Corporation. 304,802; July 18; Serial No. 334,078; published May 2, 1933.
Cosmetics, Corrective. F. Werner. 304,900; July 18; Serial No. 335,535; published May 9, 1933.
Hair oil. Anglo-Indian Drug & Chemical Co. 92,618; renewed July 22, 1933.
Hair tonic. K. Gropengiesser. 304,761; July 18; Serial No. 336,004; published May 9, 1933.
Medicinal compound. J. J. Pater. 93,019; renewed Aug. 12, 1933.
Medicinal preparation. Charles E. Frosst and Company. 304,908; July 18.
Medicinal preparation. A. Morgan Davis & Co., Limited. 304,790; July 18; Serial No. 334,571; published May 9, 1933.
Medicinal preparation. Sachsisches Serumwerk Aktiengesellschaft. 304,750; July 18; Serial No. 334,847; published May 9, 1933.
Medicinal preparations. Kalene, Limited. 304,850; July 18; Serial No. 335,202; published May 9, 1933.
Medicinal tablets. W. T. Dinneen. 304,858; July 18; Serial No. 335,483; published May 2, 1933.
Perfumes, essential oils. Usines de L'Allondon S. A. 304,783; July 18; Serial No. 335,838; published May 2, 1933.
Powder for holding artificial teeth in the mouth. W. E. Bradley. 304,911; July 18.
Preparation in powder form for extermination of roaches. Red Circle Products Co. Inc. 304,755; July 18; Serial No. 336,054; published May 9, 1933.
Shampoos. E. A. La Fountain. 304,809; July 18; Serial No. 333,246; published May 2, 1933.
Solvents. G. S. Blakeslee & Co. 304,878; July 18; Serial No. 335,664; published May 2, 1933.

CLASS 7

Clothes-lines. American Manufacturing Company. 91,928–30; renewed June 10, 1933.

CLASS 8

Pipes, cigar and cigarette holders and filters, Tobacco. S. M. Frank & Co. 304,764; July 18; Serial No. 336,085; published May 9, 1933.
Pipes, cigar and cigarette holders and filters, Tobacco. S. M. Frank & Co. 304,767; July 18; Serial No. 336,084; published May 9, 1933.

CLASS 9

Matches. Nitedals Tændstikfabrik. 91,988; renewed June 10, 1933.
Matches. Nitedals Tændstikfabrik. 91,990–1; renewed June 10, 1933.

CLASS 10

Fertilizers. American Agricultural Chemical Company. 93,146; renewed Aug. 26, 1933.
Fertilizers. American Agricultural Chemical Company. 93,514; renewed Sept. 23, 1933.

CLASS 12

Lumber. Frost Lumber Industries, Inc. 304,909; July 18.

CLASS 13

Containers, Revolving group. Scurlock Kontanerette Corporation. 304,830; July 18; Serial No. 332,075; published May 9, 1933.
Unions and pipe couplings, Plumbers'. United Superior Union Company. 304,707; July 18; Serial No. 335,975; published May 9, 1933.

CLASS 14

Alloy, Metal. Pacific Pump Works. 304,711; July 18; Serial No. 335,096; published May 2, 1933.
Carbides and their alloys, Metallic. Fried. Krupp Aktiengesellschaft. 304,773; July 18; Serial No. 336,280; published May 9, 1933.
Metallic compositions, Refractory. Tungsten Electric Corporation. 304,795; July 18; Serial No. 334,413; published May 9, 1933.
Metals, Structural. Dorman Long & Co. 304,794; July 18; Serial No. 334,351; published May 9, 1933.
Tool-steel. Sanderson Brothers & Newbould, Limited. 92,129; renewed June 17, 1933.

CLASS 15

Oil, Furnace fuel. Robert Sieber Oil Company. 304,912; July 18.

CLASS 16

Paint oils. Pennsylvania Lubricating Company. 304,770; July 18; Serial No. 336,193; published May 9, 1933.
Polish. John G. Hamilton, Inc. 304,781; July 18; Serial No. 335,816; published May 9, 1933.
Preparation for reviving or repolishing all glazed surfaces. W. J. Dedeck. 91,858; renewed June 3, 1933.
Turpentine, dryers, shellac, etc. O. N. Rosenberg & Son. 304,806; July 18; Serial No. 333,301; published May 2, 1933.
Wax, Floor. J. R. McConniff. 304,748; July 18; Serial No. 330,066; published May 2, 1933.

CLASS 17

Cigars. Paxton and Gallagher Co. 304,694; July 18; Serial No. 335,879; published May 2, 1933.
Tobacco, Cigarette and pipe. Ryan-Hampton Tobacco Co. 304,698; July 18; Serial No. 335,914; published May 2, 1933.
Tobaccos, Smoking. Penn Tobacco Company. 304,768; July 18; Serial No. 336,192; published May 9, 1933.

CLASS 19

Bicycles and for automobile brake sets. Sears, Roebuck and Co. 304,877; July 18; Serial No. 335,692; published May 2, 1933.
Motor cars, etc. Pierce-Arrow Motor Car Company. 92,710; renewed July 22, 1933.

CLASS 21

Chime signal devices. Karmac Inc. 304,910; July 18.
Electric drills, saws, motors, Portable. Sears, Roebuck and Co. 304,812; July 18; Serial No. 332,787; published Apr. 25, 1933.
Electrical insulation compounds. Harvel Corporation. 304,904; July 18.
Electrical starting mechanisms, automatic starter controllers, and backfire circuit breakers, etc. Eclipse Machine Company. 304,785–6; July 18; Serial Nos. 334,672–3; published Apr. 25, 1933.
Electrically driven machines and attachments therefor. Kitchenaid Manufacturing Company. 304,834; July 18; Serial No. 331,259; published Apr. 25, 1933.
Magneto-electric and battery ignition systems. Robert Bosch Aktiengesellschaft. 304,917; July 18.
Power devices and parts therefor. Crosley Radio Corporation. 304,749; July 18; Serial No. 334,868; published Apr. 25, 1933.
Radio apparatus. United American Bosch Corporation. 304,915; July 18.
Resistors. International Resistance Company. 304,723; July 18; Serial No. 322,642; published Mar. 1, 1932.
Spark plugs. Edison-Splitdorf Corporation. 304,803; July 18; Serial No. 334,091; published Apr. 25, 1933.
Switches. Westinghouse Electric & Manufacturing Company. 304,853; July 18; Serial No. 335,223; published Apr. 25, 1933.
Vacuum tube controllers. Westinghouse Electric and Manufacturing Company. 304,836; July 18; Serial No. 333,958; published Apr. 25, 1933.
Volume, tone controls, and switches. Chicago Telephone Supply Company. 304,736; July 18; Serial No. 334,972; published Apr. 25, 1933.
Wire. Driver-Harris Company. 304,738; July 18; Serial No. 334,989; published Apr. 25, 1933.
Wire. Driver-Harris Company. 304,741; July 18; Serial No. 334,990; published Apr. 25, 1933.

CLASS 22

Board used as a base upon which to solve jig-saw puzzles. J. B. Whitehouse. 304,899; July 18; Serial No. 335,536; published May 2, 1933.
Cards. Russell Playing Card Company. 304,769; July 18; Serial No. 336,133; published May 9, 1933.
Device for assembling jig-saw puzzles. N. G. Barnard. 304,863; July 18; Serial No. 335,809; published May 2, 1933.
Game and parts thereof. National Skee-Ball Company. 304,883; July 18; Serial No. 335,730; published May 2, 1933.
Games. Fortnum & Mason, Limited. 304,807; July 18; Serial No. 333,328; published May 9, 1933.
Games and puzzles, Word building. Pa Pro Company. 304,695; July 18; Serial No. 335,877; published May 2, 1933.
Puzzles. Calibron Products, Inc. 304,759; July 18; Serial No. 336,031; published May 2, 1933.
Puzzles. A. B. Raymond. 304,859; July 18; Serial No. 335,293; published May 9, 1933.
Puzzles and table board games. A. B. Raymond. 304,856; July 18; Serial No. 335,292; published May 2, 1933.
Skates, Roller. Louis Marx & Company. 304,705; July 18; Serial No. 335,964; published May 9, 1933.
Spoon, Fishing, casting, and trolling. P. G. Berets. 304,808; July 18; Serial No. 333,023; published May 2, 1933.
Toy animals and implements therefor. Gadget Products Corp. 304,793; July 18; Serial No. 334,420; published May 2, 1933.
Toy horse, Mechanical. Namrod Corporation. 304,829; July 18; Serial No. 335,872; published May 2, 1933.
Toys, Mechanical. Kingsbury Manufacturing Company. 304,777; July 18; Serial No. 335,783; published May 2, 1933.

CLASS 23

Abrasive cutting machine. Andrew C. Campbell, Inc. 304,871; July 18; Serial No. 335,445; published May 9, 1933.
Coin-controlled amusement game. J. F. Meyer. 304,872; July 18; Serial No. 335,460; published May 2, 1933.
Conveying apparatus. Clark Tractractor Company. 304,721; July 18; Serial No. 324,583; published May 2, 1933.

Cutlery, machinery, etc. E. C. Atkins and Company. 92,033; renewed June 17, 1933.
Cutlery, machinery, etc. Sanderson Brothers & Newbould, Limited. 92,130; renewed June 17, 1933.
Emulsifying apparatus. H. G. MacChesney. 304,776; July 18; Serial No. 335,786; published May 9, 1933.
Gears. Gerotor Licensing Company. 304,726; July 18; Serial No. 322,167; published May 9, 1933.
Milling machines. Sundstrand Machine Tool Co. 304,697; July 18; Serial No. 335,694; published May 9, 1933.
Openers, Can. Scientific Products. 304,800; July 18; Serial No. 335,743; published May 2, 1933.
Razors and blades, Safety. American Safety Razor Corporation. 304,914; July 18.
Razors, razor blades, knives, forks, etc., Safety. Julius Schmid, Inc. 304,860; July 18; Serial No. 335,297; published May 2, 1933.
Swords, milling machines, tapping machines, etc. Waffenfabrik Solothurn Aktiengesellschaft. 304,823; July 18; Serial No. 327,743; published May 9, 1933.
Swords, milling machines, tapping machines, etc. Waffenfabrik Solothurn Aktiengesellschaft. 304,826; July 18; Serial No. 327,741; published May 9, 1933.
Typewriter attachments. United Autographic Register Co. 304,840; July 18; Serial No. 333,778; published May 9, 1933.

CLASS 26

Compasses. Pioneer Instrument Company. 304,708; July 18; Serial No. 335,033; published May 2, 1933.
Machines, apparatus, and devices for producing, measuring, and recording statical and dynamical effects. Dr. A. Huggenberger. 304,710; July 18; Serial No. 335,064; published May 2, 1933.
Measuring and scientific apparatus. Siemens & Halske Aktiengesellschaft. 304,837; July 18; Serial No. 330,935; published May 9, 1933.
Optical frames, mountings, and parts thereof. Chaffin Optical Company. 304,796; July 18; Serial No. 334,303; published May 2, 1933.

CLASS 27

Watch movements. Elgin National Watch Company. 93,432; renewed Sept. 16, 1933.

CLASS 28

Jewelry. William Reiss, Inc. 304,861; July 18; Serial No. 335,294; published Apr. 25, 1933.

CLASS 31

Refrigerators. Barker Bros. Incorporated. 304,715; July 18; Serial No. 326,925; published Nov. 15, 1932.
Refrigerators. United States Radio & Television Corporation. 304,814; July 18; Serial No. 329,916; published May 9, 1933.
Refrigerators and parts thereof, and refrigerating systems. Servel, Inc. 304,889; July 18; Serial No. 335,744; published May 2, 1933.

CLASS 32

Furniture. E. H. Anderson. 304,841; July 18; Serial No. 333,786; published May 2, 1933.

CLASS 34

Burners, Oil. M. Solomon. 304,805; July 18; Serial No. 333,616; published May 9, 1933.
Candle sticks, and lamp shades and bases. Stephen Slesinger, Inc. 304,857; July 18; Serial No. 335,254; published May 2, 1933.
Lighters, Pocket. Elgin American Manufacturing Co. 304,727; July 18; Serial No. 308,724; published May 9, 1933.
Stoves, hot plates, camp stoves, etc., Gasoline pressure kitchen. Prentiss Wabers Products Company. 304,699; July 18; Serial No. 335,908; published May 9, 1933.
Stoves, water heaters, oil ranges, etc., Oil. Florence Stove Company. 304,821; July 18; Serial No. 328,803; published May 9, 1933.

CLASS 35

Gaskets, rubber hose, belting composed of rubber and fabric, and brake lining. Sears, Roebuck and Co. 304,893; July 18; Serial No. 335,489; published May 9, 1933.
Tires and tubes. McClaren Rubber Company. 304,734; July 18; Serial No. 330,601; published Nov. 15, 1932.

CLASS 36

Bugles, cornets, altos, etc. Bohland & Fuchs. 304,869; July 18; Serial No. 335,412; published Apr. 25, 1933.
Pianos and player pianos. Lester Piano Company. 304,822; July 18; Serial No. 328,357; published Apr. 25, 1933.

CLASS 37

Binders, Loose leaf. Wilson-Jones Company. 304,879; July 18; Serial No. 335,703; published May 9, 1933.
Paper, and pencil leads, Hectograph typewriter, copying, and wrapping. Vivid, Incorporated. 304,835; July 18; Serial No. 331,518; published May 2, 1933.
Paper, Bond. Graham Paper Company. 304,772; July 18; Serial No. 336,282; published May 9, 1933.
Paper for printing. Oxford Paper Company. 304,797; July 18; Serial No. 334,335; published May 9, 1933.
Paper, Toilet. Northern Paper Mills. 304,775; July 18; Serial No. 336,298; published May 9, 1933.
Paper, Tracing. Keuffel and Esser Company. 40,522; renewed June 9, 1933.
Paper, Transparent glassine. Russell Paper Goods Company. 304,888; July 18; Serial No. 335,741; published May 2, 1933.
Paper, Writing. E. E. Lloyd Paper Company. 304,765; July 18; Serial No. 336,089; published May 9, 1933.
Papers, Construction and poster. Kimberly-Clark Corporation. 304,895; July 18; Serial No. 335,511; published May 2, 1933.
Pen points. C. Howard Pen Company. 304,737; July 18; Serial No. 330,850; published May 9, 1933.

CLASS 38

Art goods. C. Lucas. 304,800; July 18; Serial No. 334,150; published May 9, 1933.
Cartoons. King Features Syndicate, Inc. 304,757; July 18; Serial No. 336,043; published May 9, 1933.
Cartoons, Series of. F. Fox. 304,868; July 18; Serial No. 335,416; published May 2, 1933.
Folders, Printed. T. P. Cauley. 304,884; July 18; Serial No. 335,716; published May 2, 1933.
Magazine. Crowell Publishing Company. 304,712; July 18; Serial No. 335,958; published May 2, 1933.
Newspaper column. Evening News Company. 304,760; July 18; Serial No. 334,745; published May 2, 1933.
Publication. American Society of Marine Engineers. 304,892; July 18; Serial No. 335,758; published May 2, 1933.
Publication. American Society of Refrigerating Engineers. 304,752; July 18; Serial No. 334,899; published May 2, 1933.
Publication. Nopsta Original New Orleans Public School Teachers' Association, Inc. 304,746; July 18; Serial No. 334,843; published May 2, 1933.
Publications. Colophon, Ltd. 304,782; July 18; Serial No. 335,856; published May 2, 1933.

CLASS 39

Dresses, coats, suits, etc. Adorable Frocks, Inc. 304,784; July 18; Serial No. 334,726; published Apr. 25, 1933.
Hosiery. Nelson Knitting Company. 304,817; July 18; Serial No. 329,405; published Nov. 29, 1932.
Hosiery. Nolde and Horst Company. 304,874; July 18; Serial No. 335,585; published Apr. 25, 1933.
Hosiery. A. V. Victorius & Co. 304,789; July 18; Serial No. 334,545; published Apr. 25, 1933.

CLASS 40

Snap-buttons. Waldes & Co. 91,922; renewed June 3, 1933.

CLASS 42

Cotton piece goods. Max Kashins Co. 304,847; July 18; Serial No. 335,167; published Apr. 25, 1933.
Cotton piece goods and diapers. Riegel Textile Corporation. 304,873; July 18; Serial No. 335,452; published May 9, 1933.
Curtains and curtain material. Martin Manufacturing Company. 304,906; July 18.
Fabrics, Flexible. Thayer-Foss Company. 304,792; July 18; Serial No. 334,414; published May 9, 1933.
Fabrics of cellulose derivatives. Celanese Corporation of America. 304,722; July 18; Serial No. 324,880; published Apr. 25, 1933.
Fabrics, Window shade. Joseph Bancroft & Sons Company. 304,828; July 18; Serial No. 332,289; published Apr. 18, 1933.
Piece goods. Consolidated Studios, Inc. 304,844; July 18; Serial No. 335,159; published Apr. 18, 1933.
Piece goods, dish cloths, doilies, etc. A. S. Eiseman. 304,713; July 18; Serial No. 327,220; published Apr. 18, 1933.
Pile fabrics. Rossie Velvet Company. 304,867; July 18; Serial No. 335,334; published May 9, 1933.
Rugs. Spiegel, May, Stern Company. 304,897; July 18; Serial No. 335,525; published May 9, 1933.
Rugs and carpets. A. & M. Karagheusian, Inc. 304,788; July 18; Serial No. 334,661; published Apr. 11, 1933.
Textile fabrics. W. E. McKay & Co. 304,855; July 18; Serial No. 335,242; published Apr. 25, 1933.

CLASS 44

Generating germicidal vapors or gases for therapeutical purposes. Knox Terpezone Company of America. 91,880; renewed June 3, 1933.
Massage machines. Wm. Meyer Co. 304,898; July 18; Serial No. 335,514; published May 9, 1933.

CLASS 45

Beverages and sirups and extracts for making same, Maltless. Foote & Jenks, Inc. 304,811; July 18; Serial No. 332,713; published May 9, 1933.
Cider. Laird & Co. 304,700; July 18; Serial No. 335,939; published May 9, 1933.

CLASS 46

Almond paste, cocoa, canned currants, etc. Maas-Keefe Co. 304,731; July 18; Serial No. 279,413; published May 9, 1933.
Bread. Rubel Baking Company. 304,733; July 18; Serial No. 330,522; published May 9, 1933.
Bread. Rubel Baking Company. 304,735; July 18; Serial Nos. 330,522–3; published May 9, 1933.
Candies and chocolates. Eagle Nut Products, Inc. 304,862; July 18; Serial No. 335,311; published May 2, 1933.
Canned food products. Westgate Sea Products Company. 304,753; July 18; Serial No. 334,970; published May 2, 1933.
Canned dog food. Pedrick Laboratories Inc. 304,714; July 18; Serial No. 327,563; published May 9, 1933.
Canned strained vegetables. Hygeia Nursing Bottle Company. 304,730; July 18; Serial No. 308,118; published May 2, 1933.
Cantaloups and melons. C. H. Weaver & Co. 304,919; July 18.
Cereal breakfast foods. Wheat Chips Company. 304,905; July 18.
Chocolates, candies, salted nuts, and crystallised fruits. Laurencie's, Inc. 304,799; July 18; Serial No. 334,220; published May 2, 1933.
Coffee. Beech-Nut Packing Company. 304,902; July 18; Serial No. 335,559; published Apr. 25, 1933.
Coffee. Coban Coffee Mills, Inc. 304,739; July 18; Serial No. 334,986; published May 2, 1933.
Confection, Ice cream. Newly Weds Baking Co. Inc. 304,762; July 18; Serial No. 336,093; published May 9, 1933.
Dessert. Specially prepared. J. W. Watson Company. 304,787; July 18; Serial No. 334,586; published May 2, 1933:
Extract, Vanilla food flavoring. Joseph Burnett Co. 304,729; July 18; Serial No. 307,578; published May 9, 1933.
Flavoring for cake-icings. S. Gumpert & Co. 93,846; renewed Oct. 21, 1933.
Flour, Wheat. Acme-Evans Co. of Louisville, Incorporated. 304,720; July 18; Serial No. 325,546; published May 9, 1933.
Food drink. Pepsodent Co. 304,819; July 18; Serial No. 328,447; published May 9, 1933.
Food for dogs, etc. W. K. Clark. 304,798; July 18; Serial No. 334,280; published May 9, 1933.
Food, Lacto-dextro lubricant supplementary. J. M. Gehman. 304,820; July 18; Serial No. 328,712; published May 2, 1933.
Foods. R. T. French Company. 94,174; renewed Nov. 11, 1933.
Foods. O. B. Picper. 92,709; renewed July 22, 1933.
Frankfurters, weiners, and sausages. L. Severin. 304,779; July 18; Serial No. 335,799; published May 9, 1933.
Fruit, Fresh citrus. Canoga Citrus Association. 304,818; July 18; Serial No. 329,500; published May 9, 1933.
Fruit preserves and apple butter. Max Ams, Incorporated. 304,846; July 18; Serial No. 335,183; published May 9, 1933.
Fruits, Fresh citrus. Wm. Webster. 304,203; July 18; Serial No. 335,950; published May 9, 1933.
Hams, bacon, lard and sausages. Figge & Hutwelker Co. 92,968–9; renewed Aug. 12, 1933.
Ice cream cones. Illinois Baking Corporation. 304,815; July 18; Serial No. 329,746; published May 9, 1933.
Ice cream, water ice, sherbet, etc. Vogt Instant Freezers Incorporated. 304,718; July 18; Serial No. 325,732; published May 2, 1933.
Macaroni, olive oil, malt syrup, etc. Semolina Macaroni Company. 304,742; July 18; Serial No. 330,438; published May 2, 1933.
Milk, malted milk, etc. Borden's Condensed Milk Co. 40,692; renewed June 30, 1933.
Noodles, Egg. Pfaffman Egg Noodle Co. 304,843; July 18; Serial No. 333,772; published May 9, 1933.
Pickles, honey, fresh strawberries, and peaches packed in sugar. Chas. F. Cates & Sons, Inc. 304,813; July 18; Serial No. 329,822; published May 2, 1933.
Popcorn. Karmelkorn Corporation. 304,728; July 18; Serial No. 320,728; published May 2, 1933.
Potatoes, Sweet. Wixom Bros. 304,732; July 18; Serial No. 298,873; published May 27, 1930.
Sandwiches. H. G. Crusius. 304,839; July 18; Serial No. 333,923; published May 2, 1933.
Sauces or relishes. H. J. Heinz Company. 304,774; July 18; Serial No. 335,781; published May 2, 1933.
Sausage. E. Kahn's Sons Company. 304,916; July 18.
Sea foods. Nitterhouse & Brothers. 304,903; July 18.
Seasoning. Associated Food Industries. 304,838; July 18; Serial No. 333,840; published May 9, 1933.
Seasonings. Maggi Co. Inc. 304,810; July 18; Serial No. 332,655; published May 2, 1933.
Shortenings. Procter & Gamble Company. 304,824; July 18; Serial No. 328,037; published May 9, 1933.
Sweetmeats, Assortments of. A. S. Wilkin, Limited. 304,801; July 18; Serial No. 334,169; published May 2, 1933.
Syrup and food flavoring extracts, Malt. H. J. Mendlow. 304,842; July 18; Serial No. 333,634; published May 2, 1933.
Syrup, Malt. Best Malt Products Company. 304,716; July 18; Serial No. 327,126; published May 9, 1933.
Tea. Royal Estates Tea Co. 304,751; July 18; Serial No. 334,930; published May 2, 1933.
Tea. Royal Estates Tea Co. 304,754; July 18; Serial No. 334,931; published May 2, 1933.
Tea. Royal Estates Tea Co. 304,758; July 18; Serial No. 336,023; published May 9, 1933.
Vegetable oil, Refined pure. Capital City Products Company. 304,832; July 18; Serial No. 331,668; published May 9, 1933.
Vegetables, Fresh. Tulare Co. Asparagus Growers Assn. 304,717; July 18; Serial No. 325,608; published May 9, 1933.

CLASS 47

Champagne and wines. Vve. George Goulet & Cie. 304,706; July 18; Serial No. 335,976; published May 2, 1933.
Wines. L. Caballero. 304,881; July 18; Serial No. 335,714; published May 9, 1933.
Wines. W. Sheinker & Son. 304,880; July 18; Serial No. 335,701; published May 9, 1933.
Wines, Sparkling. Chr. Adt. Kupferberg & Co. Kommanditgesellschaft auf Aktien. 304,852; July 18; Serial No. 335,229; published May 2, 1933.

CLASS 48

Malt beverage. W. C. Braun. 304,778; July 18; Serial No. 335,802; published May 9, 1933.
Malt beverage. I. T. Byram, jr. 304,763; July 18; Serial No. 336,110; published May 2, 1933.
Malt beverage. Gabriel U. Jos. Sedlmayr Spaten-Franziskaner-Leistbräu A.-G. München. 304,894; July 18; Serial No. 335,777; published May 9, 1933.
Malt beverage. Globe Brewing Co. 304,825; July 18; Serial No. 335,863; published May 9, 1933.
Malt beverage. H. Lackman. 304,827; July 18; Serial No. 335,868; published May 9, 1933.
Malt beverage. A. B. Maede. 304,813; July 18.
Malt beverage. N. J. Mulligan. 304,780; July 18; Serial No. 335,830; published May 2, 1933.
Malt beverage. North American Brewing Company. 304,704; July 18; Serial No. 335,967; published May 2, 1933.
Malt beverage. Pittsburgh Brewing Company. 304,854; July 18; Serial No. 335,247; published May 2, 1933.
Malt beverages. Dick & Brothers Quincy Brewery Company. 304,771; July 18; Serial No. 336,179; published May 9, 1933.
Malt beverages. Hagen-Becker Company. 304,920; July 18.
Malt beverages. F. & M. Schaefer Brewing Co. 304,918; July 18.

CLASS 49

Brandies and other potable beverages. L. Caballero. 304,766; July 18; Serial No. 336,074; published May 9, 1933.
Gin. W. & A. Gilbey Limited. 304,849; July 18; Serial No. 335,197; published May 9, 1933.
Liquors, Distilled alcoholic. L. Caballero. 304,882; July 18; Serial No. 335,713; published May 9; 1933.
Potable spirits, whiskey, and liquors. Distillers Corporation Limited. 304,745; July 18; Serial No. 330,470; published Nov. 1, 1932.
Spirits, whiskey, and liquors, Potable. Distillers Corporation Limited. 304,833; July 18; Serial No. 331,728; published Dec. 6, 1932.
Whiskey and potable spirits. Joseph E. Seagram & Sons Limited. 304,744; July 18; Serial No. 330,493; published Dec. 13, 1932.
Whisky. W. & A. Gilbey Limited. 304,851; July 18; Serial No. 335,199; published May 9, 1933.
Whisky. John & Robert Harvey & Co. Limited. 304,693; July 18; Serial No. 335,092; published May 9, 1933.
Whisky. Macdonald Greenlees Limited. 304,748; July 18; Serial No. 334,755; published May 9, 1933.
Whisky, brandy, and other potable spirits. W. & A. Gilbey Limited. 304,848; July 18; Serial No. 335,198; published May 9, 1933.
Whisky, Scotch. Hepburn & Ross. 304,740; July 18; Serial No. 334,996; published May 2, 1933.

CLASS 50

Closures, Bottle and jar. Armstrong Cork & Insulation Company. 304,756; July 18; Serial No. 336,062; published May 9, 1933.
Floor coverings. Allen Industries, Inc. 304,719; July 18; Serial No. 325,394; published May 9, 1933.
Oak chips for coloring and flavoring beverages. I. H. Pritchett. 304,901; July 18; Serial No. 335,566; published May 9, 1933.
Rubberized fabric, Flock surfaced. E. I. du Pont de Nemours and Company. 304,870; July 18; Serial No. 335,448; published May 9, 1933.
Rubberized fabrics. Haartz-Mason-Grower Company. 304,702; July 18; Serial No. 335,961; published May 2, 1933.
Stoppers, Bottle. E-Z Tite Rubber Company. 304,866; July 18; Serial No. 335,354; published May 2, 1933.

LIST OF LABELS

A. A. G. For Cigars. Porto Vana Cigar Co. 42,425; July 18.
Age' It. For Compound for Aging, Mellowing, Flavoring, and Deodorizing Beverages. G. B. Allen. 42,400; July 18.
Athletic Rub. For Preparation for the Relief of Rheumatic Aches and Pains, Neuralgia and Lumbago, Sprains and Strains, Insect Bites, and Muscular Soreness Due to Athletic Exercise, Exposure, and Fatigue. S. Pfeiffer Manufacturing Company. 42,424; July 18.
Beech-Nut Cheese Wafers. For Cheese Wafers. Beech-Nut Packing Company. 42,402; July 18.
Bevier's. For Preparation for the Treatment of the Scalp. J. N. Bevier. 42,403; July 18.
Brockelman's Countryside Butter. For Butter. Brockelman Bros. Inc. 42,406; July 18.
C & D. For Coffee. Closset & Devers. 42,410; July 18.
Carolyn Girl. For Boxes. Hoague-Sprague Corporation. 42,414; July 18.
Century of Progress. For Tobacco. Christian Peper Tobacco Company. 42,423; July 18.
Cora. For Tomato Paste. A. J. Capone. 42,407; July 18.
Dakota Queen Honey. For Liquid Honey. M. W. Cousineau. 42,411; July 18.
Darlinton Finish Builder. For Polish for Enamel Surfaces and the Like. G. W. Darlinton. 42,412; July 18.
5 Yards Absorbent Cheesecloth. For Cheesecloth. Chicopee Manufacturing Corporation. 42,409; July 18.
Hotel Bars. For Cheese. Frederick F. Lowenfels & Son. 42,419; July 18.
Hysan. For Antiseptic Toilet Powders. J. W. Winn. 42,430; July 18.
Jolly Ginger Ale. For Ginger Ale. Jolly Manufacturing Company. 42,415; July 18.
Kaskey's Honeyed Caramel Syrup. For Caramel Syrup. L. G. Kaskey. 42,416; July 18.
Kaskey's South American Butter Nut Popcorn. For Popcorn. L. G. Kaskey. 42,417; July 18.
KleanKarboN. For Carbon Paper. General Manifold and Printing Company. 42,431; July 18.
Lucky Gum "Let's Get 'Lucky' ". For Gum. Lucky Gum Company. 42,420; July 18.
M S & Co. Brand. For Boxes. Hoague-Sprague Corporation. 42,413; July 18.
Maltop Ale. For Ale. Maltop Brewing Co. 42,421; July 18.
Mytee Water Soluble Disinfectant and Deodorant. For Disinfectant and Deodorant. Pruden Chemical Company. 42,426; July 18.
Oak Chips. For Prepared Oak Chips for Mellowing, Flavoring, and Coloring Liquids. G. B. Allen. 42,401; July 18.
Real Silk. For Hosiery. Real Silk Hosiery Mills, Inc. 42,427; July 18.
Rippled. For Breakfast Food. Loose-Wiles Biscuit Company. 42,418; July 18.
Rubberlike Floor Covering. For Floor Covering. Bird & Son, Inc. 42,404; July 18.
Special Combination Charles of the Ritz, Cleansing Cold Cream and Cleansing Tissues. For Cleansing Cold Cream and Cleansing Tissues. Minute Make-Up Company. 42,422; July 18.
Standard Ale. For Ale. Standard Brewing Company. 42,428; July 18.
Stroehmann's Betty Crocker 13-Egg Recipe Angel Food. For Cake. Stroehmann Brothers Company. 42,429; July 18.
10 Yards Absorbent Cheesecloth. For Cheesecloth. Chicopee Manufacturing Corporation. 42,408; July 18.
True Shape. For Hosiery. John Blood & Co. 42,405; July 18.

LIST OF PRINTS

Lubal. For Lubricant to be Added to Gasoline and the Gasoline After Being Treated with the Lubricant. Lubal of the East. 14,270; July 18.
Shine Your Shoes. For Shoe Polish. U. S. Shine-Stic, Inc. 14,278; July 18.
Sucher's Play Meat Market. For Meat. The Dayton Paper Novelty Co. 14,268; July 18.
This Little Girl Has Three Parents. For Pharmaceutical and Biological Products. Parke, Davis & Company. 14,271; July 18.
Transporting Lipton's Tea From the Gardens. For Tea. Thomas J. Lipton, Inc. 14,269; July 18.
26 U. S. Patents Protect Sunoco Motor Oil. For Motor Oil. Sun Oil Company. 14,272; July 18.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 18TH DAY OF JULY, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbott, Albert L., and W. C. Miller, assignors to The Diebold Safe & Lock Company, Canton, Ohio. Safety locker. 1,918,885; July 18.

Abbott, Peter Henry. (See Kopriver, F., jr., and Abbott.)

Abbotts, Leonard, assignor to The Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn. Pocket flash light. 1,919,024; July 18.

Abel, Frank J., Massepequa, assignor to Henry Hyman, Brooklyn, N. Y. Lamp base. Des. 90,302; July 18.

Abendroth, Wilhelm. (See Pontow, W., Abendroth, Schroeder, and Mayr.)

Aborn, Robert H., East Orange, N. J., assignor to United States Steel Corporation, New York, N. Y. Working austenitic steels. 1,918,731; July 18.

Abrahams, Alexander I., New York, N. Y. Horn structure. 1,918,866; July 18.

Ackermann, Arthur, assignor to Société de Recherches & d'Exploitations Petrolifere, Paris, France. Apparatus for activation of carbonaceous substances. 1,918,267; July 18.

Acorn Wire & Iron Works. (See Kitselman, Frank, assignor.)

Adams, Ervin, assignor of one-half to M. J. Haley, Mount Carmel, ten per cent to S. W. Biskalee, Pottsville, ten per cent to W. B. Grove, Mercersburg, and H. V. Grove, Everett, Pa. Automatic electrical cut-out. 1,918,732; July 18.

Agfa Ansco Corporation. (See Schmidt, Richard, assignor.)

Agfa Ansco Corporation. (See Wendt, Bruno, assignor.)

Ainsworth, Chester D., Wollaston, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Electric switches and means to delay the successive opening thereof. 1,918,868; July 18.

Aktiebolaget Imoindustrie. (See Montelius, Carl O. J., assignor.)

Aktiengesellschaft Brown Boveri & Cié. (See Keller, Hans.)

Aktiengesellschaft Brown, Boveri & Cie. (See Rump, Sigurd, assignor.)

Aktiengesellschaft Brown, Boveri & Cie. (See Widmer, Stefan, assignor.)

Albright, Joseph C., and R. D. Junkins, Cleveland Heights, assignors to Bailey Meter Company, Cleveland, Ohio. Feed water temperature compensator. 1,918,512; July 18.

Alco Products, Incorporated. (See Jacocks, G. T., Chute, and Forbes, assignors.)

Alco Products Incorporated. (See Mahoney, John C., assignor.)

Alcott, Samuel B., Ursina, Pa. Manure spreader. 1,918,680; July 18.

Alden, John L., LaGrange, Ill., assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y. Wire drawing apparatus. 1,918,237; July 18.

Alexander, Louis A., Toledo, Ohio. Thread cutting tool. 1,918,581; July 18.

Allen, Arthur W., Des Moines, Iowa. Material mixing machine. 1,918,234; July 18.

Allen, Thomas D., New York, N. Y. Irrigating device. 1,918,681; July 18.

Allgemeine Elektricitäts-Gesellschaft. (See Kleinow, Walter, assignor.)

Alliott, Eustace A., Amersham, England. Leaf filter. 1,919,085; July 18.

Allis-Chalmers Manufacturing Company. (See Ringland, George L., assignor.)

Almetal Universal Joint Company. (See Peters, Frederick W., assignor.)

Alsaker, Alfred, assignor to The Delta-Star Electric Company, Chicago, Ill Connecting means. 1,918,441; July 18.

Alston, William H., San Antonio, Tex. Barbecue stand. Des. 90,303; July 18.

Altenkirch, Edmund, Neuenhagen, near Berlin, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Conditioning air or the like. 1,918,682; July 18.

Altgelt, Herman E., South Bend, Ind., assignor to Oliver Farm Equipment Company. Combination planter and cultivator. 1,918,950; July 18.

Aluminum Company of America. (See Keith, Wilfred D., assignor.)

Alvau, Frank, Redondo, Wash. Animal trap. 1,918,582; July 18.

Amand, James E., Brussels, assignor to Societe Anonyme d'Ougree Marihaye, Ougree, Belgium. Sheet pile. 1,918,886; July 18.

Amco Incorporated. (See Geer, Paul L., assignor.)

American Bemberg Corporation. (See Hartmann, August, assignor.)

American Engineering Company. (See Bowden, William I., assignor.)

American Floor Surfacing Machine Company. (See Myers, Harold L., assignor.)

American Glanzstoff Corporation. (See Carter, Ralph H., assignor.)

American Lace Paper Company. (See Huff, Ernest, assignor.)

American Lurgi Corporation. (See Gensecke, Wilhelm, assignor.)

American Lurgi Corporation. (See von Girsewald, C B., and Stahl, assignors.)

American Optical Company. (See Baker, Nelson M., assignor.)

American Optical Company. (See Poeton, Lawrence, assignor.)

American Optical Company. (See Wells, Joel C., assignor.)

American Safety Device Co. (See Geer, Hobart S., assignor.)

American Telephone and Telegraph Company. (See Green, Estill I., assignor.)

American Telephone and Telegraph Company. (See Holden, William H. T., assignor.)

Ancira, Gonzalo, San Antonio, Tex. Folding container or box. 1,918,887; July 18.

Anderson, Carl J., assignor of fifteen per cent to C. U. Johanson and fifty-one and two-thirds per cent to E. Borg, Chicago, Ill. Grinding machine. 1,918,951; July 18.

Anderson, Sven W. E., assignor to Servel, Inc., New York, N. Y. Self-freeing ice tray. 1,918,313; July 18.

Andreas, Arno, Munster in Westfalen, Germany. Jigging conveyer. 1,919,086; July 18.

Andrews, Fred P., U. S. Army, Seattle, Wash. Radio-receiving system. 1,918,238; July 18.

Andrews, Irene E. (See Andrews, William H., assignor.)

Andrews, William H., Cleveland, Ohio, assignor to I. E. Andrews. Spraying device. 1,919,153; July 18.

Angell, Charles H., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oil. Re. 18,899; July 18.

Antich, Anton M., Asbury Park, N. J., assignor of forty per cent to Thomas Skrosa, Hartford, Conn. Waterless gas holder. 1,918,791; July 18.

Appleman, Wilbur E. (See Dederick, C. H., and Appleman.)

Arens, Charles A., Chicago, Ill. Flexible power transmitting device. 1,918,792; July 18.

Aro Equipment Corporation, The. (See Carter, John F., assignor.)

Arras, George, and D. E. Worrell, Chicago, Ill. Lighting fixture. 1,918,828; July 18.

Arrow-Hart & Hegeman Electric Company, The. (See Nero, Arvid H., assignor.)

Ashmore, Leon H., Collingswood, assignor to The Esterbrook Steel Pen Manufacturing Company, Camden, N. J. Fountain pen. 1,918,239; July 18.

Aska, Robert N., Chicago, Ill. Curtain stretcher. 1,918,888; July 18.

Association of Motion Picture Producers, Inc. (See Rackett, Gerald F., assignor.)

Astrove, Joseph, assignor to Tidy Products Corporation, New York, N. Y. Infant's robe. 1,919,154; July 18.

Atlas Bolt & Screw Company. (See Clarkson, Bradley E., assignor.)

Atmospheric Nitrogen Corporation. (See Bray, Ulric B., assignor.)

Atwood, James T., Rockford, Ill. Hinge. 1,918,518; July 18.

Aufderhar, Arthur W. (See Groene, W. F., and Aufderhar.)

Aull, Wilson, jr. (See Washington, B., and Aull.)

Aull, Wilson, jr., Jackson Heights, N. Y. Remotely controlled radioreceiver. 1,918,683; July 18.

Austin, Evalena L. (See Perks, George W., assignor.)

Austin Manufacturing Co. (See Wilson, Fred D., assignor.)

Auto Sickle Company. (See Newton, Herbert B. and T. C., assignors.)

Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Can positioning mechanism for liquid dispensing. 1,919,155; July 18.

Ayars Machine Company. (See Ayars, Charles H., assignor.)

Baash, Lawrence F., Los Angeles, Calif. Tool joint. 1,918,448; July 18.

Baash, Lawrence F., E. Burns, Los Angeles, and G. B. Garrard, Long Beach, Calif. Packer for casing heads. 1,918,442; July 18.

Babcock & Wilcox Company, The. (See Lucke, Charles E., assignor.)

Bachmann, Alwin B., Brooklyn, and W. Krause, Bronx, N. Y., assignors to Pratt & Whitney Company, Hartford, Conn. Flexible shaft bench grinder. 1,918,952; July 18.

Backer, Max. (See Klein, Jakob, assignor.)

Bacon, Joseph B., Macomb, Ill. Artery forceps. 1,918,889; July 18.

Bacon, Joseph B., Macomb, Ill. Surgical device. 1,918,890; July 18.

Bader, Kaspar, Berlin-Grunewald, Germany. Electric immersion heater for high temperatures. 1,918,314; July 18.

Badgett, Billie B., administratrix. (See Badgett, Fred L.)

Badgett, Fred L., deceased, Chickaska, Okla.; Billie B. Badgett, administratrix. Steam lubricator. 1,918,235; July 18.

Baer, Max, New York, N. Y. Ink product and making the same. 1,918,829; July 18.

Bailey, Edwin M. (See Bailey, Edwin W. M., assignor.)

Bailey, Edwin W. M., assignor to E. M. Bailey, Amesbury, Mass. Window glass guide. 1,918,444; July 18.

Bailey Meter Company. (See Albright, J. A., and Junkins, assignors.)

Bailey Meter Company. (See Barrett, Joseph M.)

Baits, Stuart G., Grosse Pointe Park, assignor to Hudson Motor Car Company, Detroit, Mich. Antishimmy device. 1,918,445; July 18.

Bakelite Gesellschaft mit beschrankter Haftung. (See Weger, Max, assignor.)

Baker Brothers, Inc. (See Hallenbeck, George E., assignor.)

Baker, Charles I., Louisville, Ky. Gas holder seal heating system. 1,918,315; July 18.

Baker, Herbert K., Detroit, Mich., assignor to Penn Metal Company, Parkersburg, W. Va. Expanding metal lath. 1,918,316; July 18.

Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,918,953; July 18.

Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Goggle. 1,918,954; July 18.

Baker, Ralph B., Chicago, Ill. Laundry bag. 1,918,793; July 18.

Baker-Raulang Company, The. (See Remde, Edward H., assignor.)

Baker, William W., Cincinnati, Ohio. Hydraulic rotary power transmitter. 1,918,236; July 18.

Ball Brothers Company. (See Mingle, Joseph P., assignor.)

Ballard, Ernest S., Oakland, Calif., assignor, by mesne assignments, to Standard Process Corporation, Chicago, Ill. Apparatus for producing printing forms. 1,918,627; July 18.

Bank of America. (See Zahn, Selma K., assignor.)

Banning, Ephraim. (See Edelman, Philip E., assignor.)

Banning, Thomas A., jr., Wilmette, Ill. Auto lift and the like. 1,919,156; July 18.

Barber, Martin A. (See Brill, J. M., and Barber.)

Barclay, McClelland, Los Angeles, Calif. Combined radiator, hood, fenders, and bumper for vehicles. Des. 90,304; July 18.

Barium Reduction Corporation. (See Pierce, James B., jr., assignor.)

Barlo Engineering Co. Inc. (See Oskow, Louis, assignor.)

Barnes, Uriah L., San Diego, Calif. Water filtering apparatus. 1,918,446; July 18.

Barrett Company, The. (See Miller, Stuart P., assignor.)

Barrett, Joseph M., Cleveland Heights, assignor to Bailey Meter Company, Cleveland, Ohio. Master control system. 1,918,891; July 18.

Bauer, Erwin. (See Czapek, E., and Bauer.)

Bauer, George C., Santa Monica, Calif. Printing machine. 1,919,051; July 18.

Bauer, Gustav F. C., Tonawanda, assignor to National Police Signal Company, Buffalo, N. Y. Police signal system. 1,918,240; July 18.

Baumann, Henry N., jr. (See Benner, R. C., and Baumann.)

Bear Mill Manufacturing Company. (See Poley, Morris, assignor.)

Bear, Paul S., assignor to James Heddon's Sons, Dowagiac, Mich. Fishing rod. 1,918,583; July 18.

Bear, Paul S., Elkhart, Ind., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Mercury switch. 1,918,794; July 18.

Beatty, William F., Woodside, assignor of one-half to C. Sakon, New York, N. Y. Game. 1,918,892; July 18.

Bechert, Fred J., Stamford, assignor to The Fafnir Bearing Company, New Britain, Conn. Chuck. 1,918,955; July 18.

Bechtold, Arthur, Wurzen, Germany. Device for cutting chenille textures. 1,918,369; July 18.

Becker, Kurt, Berlin-Treptow, Germany, assignor to General Electric Company. Circuit controlling device. 1,919,052; July 18.

Beckmann, Hermann, Berlin-Zehlendorf, Germany. Porous body. 1,918,893; July 18.

Beckmann, Walter, Tornesch, and M. Deseniss and A. Nielsen, assignors to the Firm of New York Hamburger Gummi Waaren Comp., Hamburg, Germany. Plant for manufacturing chlorination products of caoutchouc. 1,918,370; July 18.

Beech-Nut Packing Company. (See Gore, John, assignor.)

Behle, Joseph, assignor to The Murray Company, Dallas, Tex. Gin rib grinding machine. 1,918,584; July 18.

Bell Telephone Laboratories, Incorporated. (See Bond, Donald S., assignor.)

Bell Telephone Laboratories, Incorporated. (See Gabriel, John C., assignor.)

Bell Telephone Laboratories, Incorporated. (See Greenridge, Ralph M. C., assignor.)

Bell Telephone Laboratories, Incorporated. (See Herriott, William, assignor.)

Bell Telephone Laboratories, Incorporated. (See Keller, Arthur C., assignor.)

Bell Telephone Laboratories, Incorporated. (See Kemp, A. R., and Ingmanson, assignors.)

Bell Telephone Laboratories, Incorporated. (See King, John H., assignor.)

Bell Telephone Laboratories, Incorporated. (See Kinkead, Fullerton S., assignor.)

Bell Telephone Laboratories, Incorporated. (See Marrison, Warren A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Norman, Nathaniel C., assignor.)

Bell Telephone Laboratories, Incorporated. (See Phelps, W. A., and Koerner, assignors.)

Bell Telephone Laboratories, Incorporated. (See Ritchie, George A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Scriven, Edward O., assignor.)

Bell Telephone Laboratories, Incorporated. (See Weinhart, Howard W., assignor.)

Bellavia, Peter, Garwood, N. J. Convertible furniture. 1,918,241; July 18.

Beloit Iron Works. (See Berry, Earl E., assignor.)

Belt, Fred R., Chicago, Ill. Cigarette dispensing device. 1,918,956; July 18.

Bem, Joseph P., Oakland, assignor to Pacific Pitting Machine Company Inc., Fresno, Calif. Fruit halving machine. 1,918,830; July 18.

Benda, Louis, Frankfort-on-the-Main, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Salts of dialkylaminoarylphosphinous acids. 1,918,628; July 18.

Bendix Aviation Corporation. (See Reichel, Wladimir A., assignor.)

Benner, Raymond C., P. H. Walker, and C. E. Wooddell, assignors to The Carborundum Company, Niagara Falls, N. Y. Manufacture of abrasive articles. 1,918,242; July 18.

Benner, Raymond C., and H. N. Baumann, jr., assignors, by mesne assignments, to The Globar Corporation, Niagara Falls, N. Y. Electrical resistor rod. 1,918,317; July 18.

Benson, Carl N., Scarsdale, N. Y., assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Lubricating system for vertical pumps. 1,918,783; July 18.

Bergaud, Félicie E. A. W., Paris, France, assignor to Caron Corporation, New York, N. Y. Stopper. 1,918,243; July 18.

Bergfeld, Reinhold, Berlin, Germany. Gas holder of the piston closure type. 1,918,894; July 18.

Berlin, Henry. (See Kerr, R. W., and Berlin.)

Berndt, Walter, and O. Ernst, Hochst-on-the-Main, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Preparation of methyl chloride and methylene chloride. 1,918,371; July 18.

Berry, Earl E., assignor to Beloit Iron Works, Beloit, Wis. Screen type flow evener. 1,918,514; July 18.

Bersey, Frederick T., E. A. Hardy, and S. C. Newson, London, England. Metallic lining of metal bodies. 1,918,895; July 18.

Bertsch, Heinrich, assignor to H. Th. Böhme Aktiengesellschaft, Chemnitz, Germany. Emulsion treatment and agent therefor. 1,918,372; July 18.

Bertsch, Heinrich, assignor to H. Th. Böhme Aktiengesellschaft, Chemnitz, Germany. Wetting agents. 1,918,373; July 18.

Beste, Ernst A., Kohler, Wis. Drain fitting. 1,918,515; July 18.

Bigelow, George E., et al. (See Weis, Arthur R., assignor.)

Bigelow-Sanford Carpet Co. (See Grennor, Frank V., assignor.)

Bigelow Sanford Carpet Co. (See La Couture, Henry C., assignor.)

Bigelow-Sanford Carpet Co. (See St. Jean, P. J., and Grennor.)

Biggert, Florence C., jr., Crafton, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Shearing apparatus. 1,918,318; July 18.

Biggert, Florence C., jr., Crafton, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Flying shear. 1,918,319; July 18.

Biggins, Leo F., Adrian, Mich. Method and apparatus for incubating and hatching eggs. 1,918,585; July 18.

Binks, Harry D., Oak Park, Ill. Faucet. Des. 90,805; July 18.

Binns, George W., assignor to Cincinnati Grinders Incorporated. Cincinnati, Ohio. Grinding machine 1,919,143; July 18.

Black, John C., Wilmington, Calif., assignor to Gasoline Products Company, Inc., Jersey City, N. J. Cracking oil. Re18,896; July 18.

Blakeslee, Samuel W., et al. (See Adams, Ervin, assignor.)

Blatz, Francis J., New York, N. Y. Golf bag. 1,918,447; July 18.

Blood, Alexander P., New York, N. Y. Insulator. 1,918,586; July 18.

Blume, Wilhelm, Berlin-Tegel, Germany, assignor to Firm Typograph G. m. b. H., Berlin, Germany. Matrix-setting and type-line-casting machine. 1,918,629; July 18.

Board, Virgil L., Denver, Colo., assignor to Doherty Research Company, New York, N. Y. Manufacturing coke. 1,919,157; July 18.

Bodmer, Albert, Wattwil, assignor to Novaseta A. G. Arbon, Arbon, Switzerland. Preparation of neutral or alkaline precipitating liquids. 1,918,374; July 18.

Bogardus, Leonard R. (See Eckenrode, R. R., and Bogardus.)

Böhme, H. Th., Aktiengesellschaft. (See Bertsch, Heinrich, assignor.)

Bombard, Joseph A., and R. J. Rogers, Saranac Lake, N. Y. Automobile ventilator. 1,918,630; July 18.

Bonanno, Joseph L., Forest Hills, assignor to The Lionel Corporation, New York, N. Y. Current collector for toy locomotives. 1,918,795; July 18.

Bonanno, Joseph L., Forest Hills, assignor to The Lionel Corporation, New York, N. Y. Current collector for toy locomotives. 1,918,796; July 18.

Bond, Donald S., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Manufacture of vapor electric devices. 1,918,244; July 18.

Booth, Clement, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machine. 1,919,144; July 18.

Booth, Earl C., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind. Automobile-radio control unit. Des. 90,306; July 18.

Borden, M. C. D., & Sons, Inc. (See Meyers, Edward G., assignor.)

Borg, Erik, et al. (See Anderson, Carl J., assignor.)

Borgfeldt, Geo., & Co. (See Fox, Oscar W., assignor.)

Borg-Warner Corporation. (See Hawkins, Raymond L., assignor.)

Bornand, Emilien, and H. A. Schlaepfer, Geneva, Switzerland. Casting metals. 1,918,734; July 18.

Bott, George R., assignor to Norma-Hoffman Bearings Corporation, Stamford, Conn. Lathe center and bearing means therefor. 1,919,004; July 18.

Bowden, William I., assignor to American Engineering Company, Philadelphia, Pa. Furnace side wall. 1,919,087; July 18.

Bowersock, Wilber E., and H. M. Fancher, assignors to The Rochester Folding Box Co., Rochester, N. Y. Collapsible playhouse. 1,918,375; July 18.

Bowles, Edward L., Wellesley Farms, Mass. Dirigible dock. 1,918,831; July 18.

Box, John V., Los Angeles, and E. N. Cooke, La Habra, Calif. Well surveying device. 1,918,448; July 18.

Bradley, Linn, Montclair, N. J., and E. P. McKeefe, Plattsburgh, assignors to Bradley-McKeefe Corporation, New York, N. Y. Treatment of aluminous materials. 1,918,735; July 18.

Bradley-McKeefe Corporation. (See Bradley, L., and McKeefe, assignors.)

Bradshaw, Lawrence, Bainbridge, assignor to The Casein Manufacturing Company of America, Inc., New York, N. Y. Adhesive and making same. 1,919,158; July 18.

Bragg, Everett E., Chicago, Ill., assignor to General Chemical Company, New York, N. Y. Sulphur melter. 1,918,684; July 18.

Brasington, John M., Cheraw, assignor of one-half to C. S. McCall, Bennettsville, S. C. Feed mechanism. 1,918,449; July 18.

Bray, Ulric B., Palos Verdes Estates, Calif., assignor to Atmospheric Nitrogen Corporation, New York, N. Y. Catalyst and process for the production thereof. 1,918,957; July 18.

Bray, Ulric B., Los Angeles, Calif., assignor to Atmospheric Nitrogen Corporation, New York, N. Y. Oxidation of ammonia and catalyst therefor. 1,919,005; July 18.

Breguet, Louis, assignor to Societe Anonyme des Ateliers d'Aviation Louis Breguet, Paris, France. Wing structure for flying machines. 1,919,088; July 18.

Breguet, Louis, and René Dorand, Paris, France; said Dorand assignor to said Breguet. Flying machine having revolving supporting surfaces. 1,919,089; July 18.

Brehmer, Cebruder. (See Müller, Oskar, assignor.)

Brennels Manufacturing Company. (See Stewart, James S., assignor.)

Brewer-Titchener Corporation, The. (See Johannsen, Udo K., assignor.)

Bresinski, Anton, Perth Amboy, N. J. Window pane retaining strip. 1,918,797; July 18.

Bricker, Carrie M., East Cleveland, Ohio. Dough blender. 1,919,006; July 18.

Bridgeport Metal Goods Manufacturing Company. (See Abbotts, Leonard, assignor.)

Briggs & Stratton Corporation. (See Stuckert, Felix J., assignor.)

Brigham, Edmund D., jr. (See Kopsa, J., and Brigham.)

Brill, Joseph M., and M. A. Barber, assignors to Consolidated Connector Patent Corporation, Cleveland, Ohio. Gasket for train pipe conduits. 1,918,685; July 18.

Brinton, Howard G., Pittsfield, Mass., assignor to General Electric Company. Electric control circuit. 1,919,053; July 18.

Broeske, Paul R., assignor to The Hoover Company, North Canton, Ohio. Switch. 1,918,450; July 18.

Brotz, Anton F., assignor to Kohler Company, Kohler, Wis. Washing machine. 1,918,832; July 18.

Brown Company. (See Offen, Clifford G., assignor.)

Brown, George L., sr. (See Harding, Brooks, B., assignor.)

Brown, Walter I., Oakland, Calif. Manufacturing garment hangers. 1,918,516; July 18.

Brownell, Frank A., Metuchen, N. J. Oil stop electric cable joint. 1,918,736; July 18.

Bruch, Heinrich, Siegen, Germany. Closet for sick beds. 1,918,896; July 18.

Bruckner, Nicholas. (See De Nagy, Bela, assignor.)

Brunton, William B., Winnipeg, Manitoba, Canada. Vending machine. 1,918,737; July 18.

Bryant, Julian K., Dracut, assignor to T. C. Entwistle Company, Lowell, Mass. Traverse-motion for winding machines and the like. 1,918,587; July 18.

Bryant, Roy B., Dallas, Tex. Automatic sound reproducing apparatus. 1,918,588; July 18.

Bryars, Worth M., Merced, Calif. Line safety device for typographical machines. 1,918,376; July 18.

Buchner, Max, Hannover-Kleefeld, Germany. Apparatus for the decomposition of complex hydrofluoric salts. 1,918,377; July 18.

Buckeye Incubator Manufacturing Company, The. (See Sturgis, La Verne C., assignor.)

Buckeye Iron and Brass Works. (See Rike, Frederick F., assignor.)

Buckley, Orin J., et al. (See Crane, Hubert R., assignor.)

Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)

Budd Wheel Company. (See Davenport, Talmon A., assignor.)

Buenger, Edward F., assignor to Wilson-Jones Company, Chicago, Ill. Chain post binder. 1,918,451; July 18.

Buffalo Brake Beam Company. (See Crone, Seth A., assignor.)

Bunce, Earl H., and P. M. Ginder, Palmerton, Pa., assignores to The New Jersey Zinc Company, New York, N. Y. Zinc furnace. 1,98,245; July 18.

Bungay, George W., Plainfield, N. J., assignor, by mesne assignments, to Household Field Corporation, New York, N. Y. Vacuum cup. 1,918,686; July 18.

Burgess, Benjamin R., Glendale, Calif. Producing a fumigating agent. 1,918,589; July 18.

Burkhard, Myron J. (See Marshall, E. C., and Burkhard.)

Burnelli Aircraft, Ltd. (See Burnelli, Vincent J., assignor.)

Burnelli, Vincent J., New York, N. Y., assignor, by mesne assignments, to Burnelli Aircraft, Ltd., Dover, Del. Aircraft. 1,918,687; July 18.

Burnelli, Vincent J., New York, N. Y., assignor, by mesne assignments, to Burnelli Aircraft, Ltd., Dover, Del. Aircraft. 1,918,688; July 18.

Burnham, Edwin C., jr., Yonkers, N. Y. Time table. 1,918,631; July 18.

Burnham, George A., Saugus, Mass., assignor to Condit Electrical Manufacturing Corporation. Electric switch and closing and opening means therefor. 1,918,378; July 18.

Burns Erwin. (See Baash, Burns, and Garrard.)

Burrell, Matthew M. L., Milheim, Pa. Egg beater. 1,918,738; July 18.

Burrows, Mabel, executrix. (See Burrows, Robert W.)

Burrows, Robert W., deceased; Mabel Burrows, executrix, assignor to W. K. Jaquith, Petaluma, Calif. Packing pad. 1,918,246; July 18.

Burton, Frans S., Kansas City, Mo. Truss. 1,918,590; July 18.

Busby, Junius E., Jackson, assignor of one-half to T. A. Gabbard, Oakland, Ky. Device for handling railway rails. 1,919,090; July 18.

Buttonless Tire Cover Company, The. (See George, Edgar E., assignor.)

Byrnes, Townsend & Potter. (See Crouse, George B., assignor.)

Calvert, Robert, Wilmette, assignor to Van Schaack Bros. Chemical Works, Inc., Chicago, Ill. Denatured alcohol composition. 1,919,145; July 18.

Calvert, William C., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Printer's blanket. 1,918,517; July 18.

Camel Company. (See Eklind, C. E., and Tobin, assignors.)

Camel Company. (See Herter, Frederick J., assignor.)

Cameron, Hugh J. (See Jackson, E. H., and Cameron.)

Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Air brake. 1,918,632; July 18.

Campbell, Sterling H., E. K. Habenicht, and F. H. Pietsch, assignors to Western Railway Equipment Company, St. Louis, Mo. Journal bearing for railway cars. 1,918,379; July 18.

Campbell, Wallace H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Method of and apparatus for building pneumatic tire casings. 1,918,320; July 18.
Carbondale Machine Co., The. (See Torrance, Henry, assignor.)
Carborundum Company, The. (See Benner, R. C., Walker, and Wooddell, assignors.)
Carborundum Company, The. (See Wooddell, Charles E., assignor.)
Carlsen, Paul J. (See McKay, H. J., and Carlsen.)
Caron Corporation. (See Bergaud, Félicie W. A. W., assignor.)
Carstensen, William A., Winthrop, Mass. Device for preventing collapse of nursing nipples. 1,918,633; July 18.
Carter, John F., assignor to The Aro Equipment Corporation, Bryan, Ohio. Power unit for individual lubricant guns. 1,918,833; July 18.
Carter, Ralph H., Johnson City, Tenn., assignor to American Glanzstoff Corporation, New York, N. Y. Spool holder. 1,918,518; July 18.
Carver Cotton Gin Company. (See McLean, Robert W.)
Casein Manufacturing Company of America, The. (See Bradshaw, Lawrence, assignor.)
Cazzadori, Vittorio, Rivarolo Canavese, Aosta, Italy. Hand twisting machine. 1,918,740; July 18.
Celanese Corporation of America. (See Dreyfus, C., Martin, and Lee, assignors.)
Celanese Corporation of America. (See Pool, William, assignor.)
Celanese Corporation of America. (See Seymour, George W., assignor.)
Celanese Corporation of America. (See Whitehead, William, assignor.)
Central Scientific Company. (See Klopsteg, Paul E., assignor.)
Chambers, Howard M., assignor to Marvel Carbureter Company, Flint, Mich. Heat controlling means for charge forming devices. 1,918,380; July 18.
Champion Carburetor, a Trust. (See Huber, Horace H.)
Chapin, Herbert L., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Abrading machine. 1,918,321; July 18.
Chapman, William B. (See Panish, Erwin J., assignor.)
Chapman, William B., Jackson Heights, N. Y. Gasification apparatus. 1,918,739; July 18.
Chase Companies, Incorporated, The. (See Mitchell, August, assignor.)
Chase, Leland H., Little Neck, assignor to Holmes Electric Protective Company, New York, N. Y. Signaling system. 1,919,007; July 18.
Chein, J., & Company. (See Hoffman, Samuel, assignor.)
Chemische Fabrik von Heyden, A. G. (See Zellmann, Rudolf, assignor.)
Cheney Brothers. (See George, Robert, assignor.)
Cheviron, Julian J., Detroit, Mich. Hot air furnace construction. 1,919,008; July 18.
Chillemi, Antonio, Washington, D. C. Lock. 1,919,091; July 18.
Chilton, Ralph H., assignor to The Inland Manufacturing Company, Dayton, Ohio. Steering mechanism for automobiles. 1,918,520; July 18.
Chott, Edward L., Chicago, Ill. Dental brush. 1,918,521; July 18.
Churcher, William B., assignor to The Glenn L. Martin Company, Baltimore, Md. Electric switch. 1,918,798; July 18.
Chute, Stanley J. (See Jacocks, G. T., Chute, and Forbes.)
Cincinnati Grinders Incorporated. (See Binns, George W., assignor.)
Cincinnati Grinders Incorporated. (See Booth, Clement, assignor.)
Cincinnati Milling Machine Company, The. (See Nenninger, Lester F., assignor.)
Clapp, Lewis J., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor mechanism. 1,918,247; July 18.
Clark Manufacturing Company, The. (See Strong, Leslie P., assignor.)
Clarke, Henry J. (See Phillips, H. R., and Clarke.)
Clarkson, Bradley E., assignor to Atlas Bolt & Screw Company, Cleveland, Ohio. Cable connecting and sealing means. 1,918,381; July 18.
Clements Mfg. Co. (See Clements, William J., assignor.)
Clements, William J., River Forest, assignor to Clements Mfg. Co., Chicago, Ill. Vacuum cleaner. 1,918,519; July 18.
Cleveland Pneumatic Tool Company, The. (See Gruss, Raymond L., assignor.)
Cloer, Venus U. (See Sims, W. F., and Cloer.)
Clothier, Henry W., Newcastle-upon-Tyne, B. H. Leeson, Tynemouth, and H. Leben, Harrow, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Protective arrangements for sectionalized electric power circuits. 1,919,092; July 18.
Clum Manufacturing Company. (See Winning, Robert K., assignor.)
Clutter, Carl J. (See House, C. M., and Clutter.)
Coalson, Douglas. (See Taylor, James Y., assignor.)
Coates, James W. (See Keating, J. H., and Coates.)
Cohen, Isaac, Johannesburg, Transvaal, Union of South Africa. Convertible settee. 1,919,009; July 18.
Cohen, Joseph H. (See Copeland, Francis C., assignor.)
Colburn, Lloyd, Coopersville, Mich. Airplane wing. 1,918,897; July 18.
Colgate-Palmolive-Peet Company. (See Ittner, Martin H., assignor.)
Colina, William, assignor to Scovill Manufacturing Company, Waterbury, Conn. Uniting materials. 1,918,958; July 18.
Collier Advertising Service, Inc. (See Giles, Harvey, assignor.)
Collison, William J., Bakersfield, Calif. Down draft plumber's furnace. 1,919,093; July 18.
Colourgravure Limited. (See Hillman, Albert G., assignor.)
Columbus Coated Fabrics Corporation. (See Willcox, Roderick H., assignor.)
Condit Electrical Manufacturing Corporation. (See Ainsworth, Chester D., assignor.)
Condit Electrical Manufacturing Corporation. (See Burnham, George A., assignor.)
Conley, Hugh A., Lynwood, assignor to Conley Plastering Machine Company, Inc., Compton, Calif. Applying plaster materials. 1,918,799; July 18.
Conley Plastering Machine Company, Inc. (See Conley, Hugh A., assignor.)
Connor, James F., Cleveland, Ohio. Brush. 1,919,010; July 18.
Connor, James F., Cleveland, Ohio. Brush. 1,919,011; July 18.
Consolidated Connector Patent Corporation. (See Brill, J. M., and Barber.)
Cook, Curtiss L., assignor, by mesne assignments, to Syracuse Chilled Plow Company Inc., Syracuse, N. Y. Hitch connection. 1,918,382; July 18.
Cook, Harmon J., Torrington, Conn. Inclosed switch. 1,918,248; July 18.
Cooke, Emblem N. (See Box, J. V., and Cooke.)
Cope, Frank T., and R. C. Oyster, assignors to The Electric Furnace Company, Salem, Ohio. Furnace. 1,919,054; July 18.
Copeland, Francis C., San Francisco, Calif., assignor, by mesne assignments, to J. H. Cohen, Bridgeport, Conn. Cigar and cigarette lighter. 1,919,159; July 18.
Cordes, Edward C., assignor to The Hyde Park Lumber Company, Cincinnati, Ohio. Display rack. 1,918,634; July 18.
Coubrough, Henry, Seattle, Wash. Resilient vehicle suspension. 1,918,452; July 18.
Coutant, Jay G., New York, N. Y., assignor, by mesne assignments, to E. J. Franklin, Salt Lake City, Utah. Steam generator. 1,918,453; July 18.
Covyeow, Daniel L., Chicago, Ill. Internal combustion engine. 1,918,808; July 18.
Coxhead, Ralph C. (See Trego, Frank H., assignor.)
Coxhead, Ralph C., Corporation. (See Trego, Frank H., assignor.)
Crago, Paul H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Voltage indicating apparatus. 1,918,884; July 18.
Crane, Hubert R., assignor of one-sixth to O. J. Buckley, one-sixth to E. H. McKeen, and one-sixth to H. N. Haynes, Los Angeles, Calif. Expanding mandrel. 1,918,522; July 18.
Crawford, Frederick C. (See Hufferd, G. H., Crawford, and Graham.)
Creo-Dipt Company Inc. (See Gosch, Harry E., assignor.)
Crone, Seth A., East Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Safety supporting means for brake beams. 1,918,835; July 18.
Cross, Grosvenor M., Belvedere, Calif. Cushioning device. 1,918,822; July 18.
Crouse, George B., Woodcliff, N. J., assignor, by mesne assignments, to Byrnes, Townsend & Potter, Washington, D. C. Eliminating effects of variations in current supplied to audions. 1,918,899; July 18.
Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Air chuck. 1,918,689; July 18.
Cuchran, Julius, Chicago, Ill. Bowling game apparatus. 1,919,094; July 18.
Culp, John F., assignor to Ideal Lubricator Company, Philadelphia, Pa. Adjustable valve. 1,918,959; July 18.
Cummings, Nephi W., San Bernardino, Calif. Vacuum or pressure gauge. 1,918,635; July 18.
Cupples Company, Manufacturers. (See Fleischli, J. A., and Gountsman, assignors.)
Cupples Company, Manufacturers. (See Pfeiffer, Fred B., assignor.)
Cutler-Hammer, Inc. (See Laabs, Eric H., assignor.)
Cutler-Hammer, Inc. (See Meuer, George J., assignor.)
Cutler, Henry H., deceased, Coral Gables, Fla.; J. Ralph Tatum, executor. Vehicle propulsion and control system. 1,919,181; July 18.
Czank, Aranka. (See Szatler, Louis, assignor.)
Czapek, Emil, and E. Bauer, Bomlitz near Walsrode, Germany. Making hollow bodies from cellulose compounds and the like. 1,918,883; July 18.
Daimler-Benz Aktiengesellschaft. (See Nallinger, Fritz, assignor.)
Dart, Robert H., Sacramento, Calif. Automobile jack. 1,918,591; July 18.
Dashefsky, George J., Brooklyn, N. Y. Device for eliminating torsional vibration. 1,918,249; July 18.

Davenport, Talmon A., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Metallic artillery wheel. Des. 90,807; July 18.
Davio, Leon, West Springfield, Mass. Magazine binder. 1,918,592; July 18.
Dayton Scale Company. (See Templeton, Samuel M., assignor.)
Dean, James W. and J. H., assignors to Knoxville Fertilizer Co., Knoxville, Tenn. Based ammonium sulphate fertilizer and making the same. 1,918,454; July 18.
Dean, James W. and J. H., assignors to Knoxville Fertilizer Co., Knoxville, Tenn. Basic phosphate fertilizer and making the same. 1,918,900; July 18.
Dean, John H. (See Dean, James W. and J. H.)
Dederick, Clinton H., and W. R. Appleman, assignors to The Emerson Electric Mfg. Co., St. Louis, Mo. Multi-speed split phase motor. 1,918,323; July 18.
Deere & Company. (See Hoffman, John E., assignor.)
Deere & Company. (See Paul, William L., assignor.)
Deere, John, Tractor Company. (See McCray, Harold E., assignor.)
Defibaugh, Nathan C. (See Little, D. G., and Defibaugh.)
De Gennaro, Gaetan, Paris, France. Articles of jewelry and manufacturing the same. 1,919,095; July 18.
De Giorgi, Achille B., Milan, Italy. Disconnecting switch. 1,918,741; July 18.
De la Roza, Joaquin J., jr., Tuinucu, Cuba. Producing alpha cellulose. 1,918,250; July 18.
Delco Products Corporation. (See Funston, Frederick D., assignor.)
Delco Products Corporation. (See Rossman, Edwin F., assignor.)
Delta-Star Electric Company, The. (See Alsaker, Alfred, assignor.)
Demers, Isaïé J. B., assignor to Superior Metal Products Company, St. Paul, Minn. Strainer. 1,918,836; July 18.
De Nagy, Bela, assignor of thirty-eight and one-fourth per cent to N. M. Molnar, New York, and twenty-two and one-half per cent to N. Bruckner, Astoria, N. Y. Brushing and polishing machine. Des. 90,808; July 18.
Denton, Joseph A., Milwaukee, Wis. Movable lumber stacker. 1,918,800; July 18.
Deseniss, Max. (See Beckmann, W., Deseniss, and Nielsen.)
Devine, James J., Allenton, Mo., assignor to M. B. Fulcher, Chicago, Ill. Starting device for internal combustion engines. Re18,897; July 18.
Diebold Safe & Lock Company, The. (See Abbott, A. L., and Miller, assignors.)
Diener, Richard, Oxnard, Calif. Rose. Pl. Pt. 70; July 18.
Dilg, Charles H. J., New York, N. Y. Telephone set. 1,918,801; July 18.
Dill Manufacturing Company, The. (See Crowley, John C., assignor.)
Dinner, Heinrich, Ennenda, assignor to the Firm Sulzer Frères Société Anonyme, Winterthur, Switzerland. Fuel injection device for internal combustion engines. 1,918,324; July 18.
Dippman, Fred R., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley base. 1,918,837; July 18.
Diskin, Saul, New York, N. Y. Toilet article kit. 1,919,012; July 18.
Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Indirect lighting fixture. 1,918,455; July 18.
Doble Steam Motors Corporation. (See Doble, Warren, assignor.)
Doble, Warren, Emeryville, Calif. Burner. 1,918,326; July 18.
Doble, Warren, Emeryville, Calif., assignor to Doble Steam Motors Corporation, Wilmington, Del. Fluid cushion. 1,918,325; July 18.
Dodge, D. D. (See Wyant, George D., assignor.)
Dodge, Gordon F., Oakland, Calif. Vibrating apparatus control. 1,918,456; July 18.
Doherty Research Company. (See Board, Virgil L., assignor.)
Doherty Research Company. (See Isbam, R. M., and Spring, assignors.)
Dolge, Arthur H., Westport, Conn. Church truck. 1,919,103; July 18.
Dorand, René. (See Breguet, L., and Dorand.)
Douglas, Fredric E., assignor to Draper Corporation, Hopedale, Mass. Temple thread cutter for looms. 1,919,146; July 18.
Dow Chemical Company, The. (See Dow, Herbert H., assignor.)
Dow Chemical Company, The. (See Gann, John A., assignor.)
Dow Chemical Company, The. (See Hoy, John E., assignor.)
Dow Chemical Company, The. (See Strosacker, C. J., and Schwegler, assignors.)
Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Lubricant. 1,918,593; July 18.
Dowell, Alvis Y., Hastings upon Hudson, assignor to Servel, Inc., New York, N. Y. Shelf retainer. 1,918,457; July 18.
Dremel, Albert J., Racine, Wis. Hand vibrator. 1,918,458; July 18.
Drewry, James S., assignor of one-half to Shelvoke & Drewry Limited, Letchworth, England. Vehicle body with detachable containers. 1,919,096; July 18.

Dreyfus, Camille, New York, N. Y., H. E. Martin, and L. N. Lee, Cumberland, Md., assignors to Celanese Corporation of America. Preparing cellulose esters and product thereof. 1,918,251; July 18.
Drysdale and Company. (See Drysdale, J. W. W., and Young, assignors.)
Drysdale, John W. W., and J. Young, assignor to Drysdale and Company, Limited, Yoker, Glasgow, Scotland. Electrically-driven rotary pump. 1,919,097; July 18.
Duckham, Arthur M., assignor of one-half to Woodall-Duckham (1920) Limited, London, England. Furnace, carbonizing chamber and retort, and the like. 1,919,098; July 18.
Dudzeele Corporation of America. (See Mantell, Charles L., assignor.)
Dueber, Lester G. (See Worthington, W. H., and Dueber.)
Duff-Norton Manufacturing Company, The. (See Schwerin, Frank H., assignor.)
Duffy, Michael J., Brooklyn, N. Y. Safety razor and hair cutter. 1,918,636; July 18.
Dunbar, Thomas L., and A. D. Merrill, Watertown, N. Y. Method and apparatus for the digestion of fibrous material. 1,918,459; July 18.
Dungan, Warren. (See Norcross, Harry E., assignor.)
Dunham, Carlton R., Aldwych, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. High speed telegraphy. 1,918,252; July 18.
Dunlap, Clarence E., Sioux City, Iowa. Process and apparatus for beveling square tire patches. 1,918,838; July 18.
Dunn, Charles C., assignor to The Randall Company, Cincinnati, Ohio. Window glass cushioning device. 1,919,013; July 18.
Du Pont, E. I., de Nemours & Company. (See Lewis, Harold A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Weiland, Henry J., assignor.)
Du Pont, E. I., de Nemours and Company. (See Wernlund, C. J., and Oplinger, assignors.)
Du Pont Rayon Company. (See Lecomte, Gustave, assignor.)
DuPuy, Richard R., assignor to Wright-De Coster, Inc., St. Paul, Minn. Tone control for loud speakers. 1,918,839; July 18.
Dura Company, The. (See Floraday, Burton S., assignor.)
Dyer, Douglas H., and W. F. Rodenkirchen; said Douglas H. Dyer assignor to W. M. Dyer, St. Paul, Minn. Traffic signal. 1,918,827; July 18.
Dyer, Horace T., New York, N. Y., and H. R. Liebert and F. D. Swan, assignors to Goodyear-Zeppelin Corporation, Akron, Ohio. Mooring mast. 1,918,523; July 18.
Eames, William F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elevator control system. 1,919,014; July 18.
Eastman, Fred C. (See LaChapelle, F. N., and Eastman.)
Eberhard, Boyd C., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Resilient container and sealing it. 1,918,524; July 18.
Eccardt, William, Overland, Mo. Dispensing receptacle for paper bags. 1,918,460; July 18.
Eckenrode, Roy R., and L. R. Bogardus, assignors to Square D Company, Detroit, Mich. Panel board. 1,918,525; July 18.
Eckert, Wilhelm, Frankfort-on-the-Main-Hochst, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Dyestuff derived from 1-8-naphthalic acid anhydride. 1,918,461; July 18.
Economy Electric Devices Co. (See Lake, Jarrett T., assignor.)
Edelman, Philip E., assignor to Ephraim Banning, Chicago, Ill. Polarized conductive couple suitable for use as a rectifier, etc. 1,918,526; July 18.
Eisenzapf, Karl, Berlin-Wilmersdorf, assignor to Siemens & Halske, Aktiengesellschaft Siemensstadt near Berlin, Germany. Determining distances. 1,919,015; July 18.
Eising, Eugene H., New York, N. Y. Therapeutic agent. 1,919,055; July 18.
Eklind, Carl E., and K. J. Tobin, assignors to Camel Company, Chicago, Ill. Car door. 1,918,253; July 18.
Elberty, Robert S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Timing device for laundry extractors. 1,918,960; July 18.
Electric Furnace Company, The. (See Cope, F. T., and Oyster, assignors.)
Electric Vacuum Cleaner Company. (See Lang, H. T., and Kroenlein, assignors.)
Electrical Engineers Equipment Company. (See Farrell, Fred, assignor.)
Electrical Engineers Equipment Co. (See Jacobs, Ernest H., assignor.)
Elektricitäts-Gesellschaft "Sanitas" m. b. H. (See Helbig, Adolf, assignor.)
Electrolux Corporation (See Ljungquist, Gustaf.)
Electrolux Servel Corporation. (See Köhler, Peter, assignor.)
Electrolux Servel Corporation. (See Taylor, Robert S., assignor.)
Elevator Mfg. Company of America. (See Rice, Joseph, assignor.)
Elliott, David, Johnstown, Pa. Cigarette package holder and opener. 1,919,099; July 18.

Elrod, Henry E., Houston, Tex. Settling tank. 1,918,742; July 18.
Embury, William C., Warsaw, N. Y. Portable electric lantern. 1,919,056; July 18.
Emerson Electric Mfg. Co., The. (See Dederick, C. H., and Appleman, assignors.)
Engelhard, Charles, Inc. (See Hebler, W. O., and Hamilton, assignors.)
Engelhardt, Henry C., Hamden, assignor to The A. C. Gilbert Company, New Haven, Conn. Electrical motor. 1,918,690; July 18.
Engisch, Otto, Hamburg, Germany. Evaporator. 1,918,385; July 18.
Entwistle, T. C., Company. (See Bryant, Julian K., assignor.)
Eppenstein, Otto, assignor to the Firm Carl Zeiss, Jena, Germany. Rectifying device for range-finders. 1,918,527; July 18.
Erdmann, Konrad, Radenthein, Austria. Apparatus for impregnating coarsely fibrous materials to be worked up into building elements. 1,918,462; July 18.
Eriksen, Oliver H., Orland, Calif. Internal combustion engine. 1,918,840; July 18.
Ernst, Otto. (See Berndt, W., and Ernst.)
Esau, Abraham, Jena, Germany. Apparatus for diathermic treatment by means of high frequency. 1,918,386; July 18.
Eschenbacher, Hermann, Ridgewood, N. Y. Toy bank. 1,918,691; July 18.
Esterbrook Steel Pen Manufacturing Co. (See Ashmore, Leon H., assignor.)
Etzenhouser, Fred H., R. C. Murphy, and F. P. Tandy, Independence, Mo. Valve grinder. 1,918,743; July 18.
Faber, William F., Newark, assignor to V. N. Roadstrum, West Orange, N. J. Reforming of natural gases. 1,918,254; July 18.
Faber, William F., Newark, assignor to V. N. Roadstrum, West Orange, N. J. Reforming of natural gases. 1,918,255; July 18.
Fafnir Bearing Company, The. (See Bechert, Fred J., assignor.)
Fafnir Bearing Company, The. (See Searles, R. R., and Reynolds, assignors.)
Fairbanks, Morse & Company. (See Reis, Curt F., assignor.)
Falvey, John A., Detroit, Mich. Mailing device. 1,918,384; July 18.
Fancher, Howard M. (See Bowersox, W. E., and Fancher.)
Fantaci, Dominic N., Elmhurst, N. Y. Windshield heater. 1,918,387; July 18.
Farnham, Paul O., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J. Radio receiving system. 1,919,160; July 18.
Farrell, Fred, assignor to Electrical Engineers Equipment Company, Elmwood Park, Ill. Electric switch. 1,918,901; July 18.
Faulkner, David S., Los Angeles, and L. E. Zerbe, Moneta, Calif., assignors to The National Supply Company, Toledo, Ohio. Water distributing system for draw works. 1,918,499; July 18.
Fawkes, Charles E., assignor to Pyroxylin Products, Incorporated, Chicago, Ill. Finished surface and producing same. 1,918,692; July 18.
Fazekas, Anton, San Francisco, Calif. Receptacle. 1,918,744; July 18.
Fendt, Emil, and C. Schörg, Frankfort-on-the-Main-Hochst, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Electric heater for circulating fluids. 1,918,637; July 18.
Ferguson, Robert E., Medford, Mass. Flow recording mechanism. 1,918,388; July 18.
Ferm, John E. (See Keeney, R. M., and Ferm.)
Fernstrom, Elmer, La Jolla, Calif. Metal furring strip. 1,918,256; July 18.
Ferro Stamping & Manufacturing Company. (See Lowe, Charles B., assignor.)
Fidelity Trust Company. (See Randall, Walter H., assignor.)
Field, Leeds K., Brooklyn, N. Y. Folding box. 1,919,100; July 18.
Finkl, A., & Sons Company. (See Finkl, Fred, assignor.)
Finkl, Fred, assignor to A. Finkl & Sons Company, Chicago, Ill. Dipper tooth. 1,918,841; July 18.
Firebar Corporation. (See Thompson, James S., assignor.)
Fisher, Harry L., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Vulcanizing rubber. 1,918,328; July 18.
Fitz Gerald, Alan S., Wynnewood, Pa., assignor to General Electric Company. Photo-electric system. 1,919,182; July 18.
Fitzgerald Manufacturing Company, The. (See Fitzgerald, Patrick J., assignor.)
Fitzgerald, Patrick J., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Beater construction. 1,919,101; July 18.
Fitzgerald, Patrick J., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Separable beater for mixing devices. 1,919,102; July 18.
Fladger, Ralph H., Dallas, assignor of one-half to The Shield Company, Inc., Fort Worth, Tex. Electrically ignited torpedo. 1,918,594; July 18.
Fleischer, Rudolf R., Freeport, N. Y. Mirror attachment for motor vehicles. 1,918,802; July 18.
Fleischli, John A., Clayton, and J. M. Kountzman, assignors to Cupples Company, Manufacturers, St. Louis, Mo. Assembling nuts and bridge washers on valve stems. 1,918,528; July 18.
Fleming, Robert, Whangarei, New Zealand. Electric iron. 1,918,693; July 18.
Fletcher, Harold W., and R. C. Kuldell, assignors to Hughes Tool Company, Houston, Tex. Conical cutter drill. 1,918,902; July 18.
Fletcher, John D., Louisville, Ky. Sirup pump. 1,918,903; July 18.
Flintkote Corporation, The. (See Kirschbraun, Lester.)
Floraday, Burton S., assignor to The Dura Company, Toledo, Ohio. Electric light. 1,918,803; July 18.
Florsheim Shoe Co., The. (See White, John J., assignor.)
Fluga Aktiengesellschaft. (See Heylandt, Christian W. P., assignor.)
Foote-Burt Company, The. (See Schiltz, Bernard P., assignor.)
Forbes, James B. (See Jacocks, G. T., Chute, and Forbes.)
Forsyth, James L., assignor of one-half to J. M. Smith, Smackover, Ark. Clamp for pulley belts. 1,918,257; July 18.
Forsythe, Joe G., Oliver, Ill. Adjustable shore. 1,918,745; July 18.
Fort Pitt Bedding Company. (See Stubnitz, Maurice, assignor.)
Fort Pitt Malleable Iron Company. (See Holmes, Edward H., assignor.)
Foster, John F., Dallas, Tex. Machine for applying reenforcing eyelets to paper. 1,918,961; July 18.
Foster, William E., Chicago, Ill. Egg cutter. 1,918,463; July 18.
Fox, Oscar W., Forest Hills, assignor to Geo. Borgfeldt & Co., New York, N. Y. Sipper. Des. 90,310; July 18.
Fox, Oscar W., Forest Hills, assignor to Geo. Borgfeldt & Co., New York, N. Y. Sipper. Des. 90,311; July 18.
Fox, Oscar W., Forest Hills, assignor to Geo. Borgfeldt & Co., New York, N. Y. Sipper. Des. 90,312; July 18.
Franklin, Benjamin, jr., Dresher, Pa. Grading frame. 1,918,842; July 18.
Franklin, Edward J. (See Coutant, Jay G., assignor.)
Franklin, Laurence W., Delawanna, and F. J. Maus, Paterson, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Pilot lamp arrangement for multiplex telegraph printers. 1,919,161; July 18.
Frater, Gordon G., assignor to G. B. Lewis Company, Watertown, Wis. Golf ball washer. 1,918,529; July 18.
Frazin, Jacques S., Yonkers, N. Y. Serving tray. Des. 90,309; July 18.
Frederiksen, Felix M., Milwaukee, Wis., assignor, by mesne assignments, to Premier-Pabst Corporation. Cheese product and making the same. 1,918,595; July 18.
Fredricksen, Arthur F., Waukesha, Wis. Device for testing carbonated beverages. 1,918,258; July 18.
Fretz-Moon Tube Company. (See Moon, John W., assignor.)
Friedman, Joseph S. (See Land, E. H., and Friedman.)
Fulcher, Mary Baker. (See Devine, James J., assignor.)
Funston, Frederick D., assignor to Delco Products Corporation, Dayton, Ohio. Charge forming device. 1,918,530; July 18.
Furbush, Frank L., assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Drier. 1,919,057; July 18.
Furedy, Frank, Penn-Wynne, assignor of one-half to G. M. Dessdoefer, Philadelphia, Pa. Adjustable writing implement. 1,918,464; July 18.
Gabbard, Thomas A. (See Busby, Junius E., assignor.)
Gabriel, John C., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical resistance. 1,918,259; July 18.
Gaglio, John, Pittsburg, Calif. Self-closing paste tube. 1,918,746; July 18.
Gann, John A., assignor to The Dow Chemical Company, Midland, Mich. Magnesium base alloy. 1,918,260; July 18.
Gardner, John J., New York, N. Y. Motor vehicle control system. 1,918,465; July 18.
Gardner, William H., assignor to United States Shellac Importers' Association, Inc., New York, N. Y. Shellac-pigment composition. 1,918,804; July 18.
Garrard, George B. (See Baash, L., Burns, and Garrard.)
Gasoline Products Company. (See Black, John C., assignor.)
Gauger, Frank A., and R. W. Johnson, Milwaukee, Wis., assignors, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Heater lighter. 1,918,805; July 18.
Geer, Hobart S., Corona, assignor to American Safety Device Co., New York, N. Y. Scaffolding. 1,919,016; July 18.
Geer, Paul L., Bellevue, assignor to Amco Incorporated, Pittsburgh, Pa. Annealing leer. 1,918,962; July 18.
General Aniline Works, Inc. (See Eckert, Wilhelm, assignor.)
General Chemical Company. (See Bragg, Everett E., assignor.)
General Chemical Company. (See Harkness, Andrew M., assignor.)

General Electric Company. (See Becker, Kurt, assignor.)
General Electric Company. (See Brinton, Howard G., assignor.)
General Electric Company. (See Fitz Gerald, Alan S., assignor.)
General Electric Company. (See Hull, Albert W., assignor.)
General Electric Company. (See Jackson, E. H., and Cameron, assignors.)
General Electric Company. (See Kannenglesser, Paul, assignor.)
General Electric Company. (See Lauster, Frans, assignor.)
General Electric Company. (See Pickard, Greenleaf W., assignor.)
General Electric Company. (See Poniatoff, Alexander M., assignor.)
General Electric Company. (See Sabbah, Camil A., assignor.)
General Electric Company. (See St. Clair, B. W., and Quinn, assignors.)
General Electric Company. (See Seeley, Harold T., assignor.)
General Plate Company. (See Ross, Oscar A., assignor.)
General Railway Signal Company. (See Hoppe, Walter H., assignor.)
General Railway Signal Company. (Se Moore, Edmund W., assignor.)
Gensecke, Wilhelm, Gonzenheim near Frankfort-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y. Process and apparatus for separating solvents from their mixtures with oil or fat in vacuo by evaporation of the solvents. 1,918,638; July 18.
Gentry, Ralph R., assignor of one-half to G. H. La Barre, Spokane, Wash. Air washer. 1,918,531; July 18.
George, Edgar E., assignor to The Buttonless Tire Cover Company, Canton, Ohio. Making embossed coated fabric. 1,919,058; July 18.
George, Edgar E., assignor to The Buttonless Tire Cover Company, Canton, Ohio. Making embossed fabric. 1,919,059; July 18.
George, Robert, Paris, France, assignor to Cheney Brothers, New York, N. Y. Textile fabric. Des. 90,313; July 18.
Gerben, Charles, New York, N. Y. Emergency tire for vehicles. 1,918,694; July 18.
Gerline, Otto, Kalamazoo, Mich. Fishing rod support. 1,918,389; July 18.
Gette, John O., jr., Yonkers, assignor to Pioneer Instrument Company, Incorporated, Brooklyn, N. Y. Aeroplane attitude indicator. 1,918,904; July 18.
Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Molding press. 1,918,532; July 18.
Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Electric connecter plug. 1,918,533; July 18.
Gilbert, A. C., Company, The. (See Engelhardt, Henry C., assignor.)
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., North Haven, assignor to The A. C. Gilbert Company, New Haven, Conn. Vacuum cleaner motor. 1,918,695; July 18.
Gilbert, Reginald L., assignor to Victory Washer Co., Ltd., San Francisco, Calif. Washing machine. 1,918,696; July 18.
Gilch, Ludwig, Chicago, Ill. Convertible chair. 1,918,261; July 18.
Giles, Harvey, Brooklyn, assignor to Collier Advertising Service, Inc., New York, N. Y. Vending machine. 1,919,017; July 18.
Gill, Eldridge B., Oklahoma City, Okla. Switch valve. 1,918,596; July 18.
Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Operating device for car couplers. 1,918,806; July 18.
Ginder, Philip M. (See Bunce, E. H., and Ginder.)
Girdler Corporation, The. (See Vogt, Clarence W., assignor.)
Glab, William N., assignor to Morrison Bros., Dubuque, Iowa. Vent valve. 1,918,807; July 18.
Gleaner Harvester Corporation. (See Worthington, W. H., and Dueger.)
Glenn, Ervyl M., and A. M. Wiggins, Sharon, Pa., assignors to Westinghouse Electric and Manufacturing Company. Arc welding apparatus. 1,918,963; July 18.
Globar Corporation, The. (See Benner, R. C., and Baumann, assignors.)
Goebbel, Louis, Babylon, N. Y. Ornamented lining fabric. 1,919,018; July 18.
Goldsmith, Alfred N., New York, N. Y., assignor to Radio Corporation of America. Ultra-short wave repeating system. 1,918,262; July 18.
Goodrich, B. F., Company, The. (See Roberts, Anna, assignor.)
Goodyear Tire & Rubber Company, The. (See Calvert, William C., assignor.)
Goodyear Tire & Rubber Company, The. (See Campbell, Wallace H., assignor.)
Goodyear Tire & Rubber Company, The. (See Eberhard, Boyd C., assignor.)
Goodyear Tire & Rubber Company, The. (See Hamly, George A., assignor.)
Goodyear Tire & Rubber Company, The. (See Musselman, Alvin J., assignor.)
Goodyear Tire & Rubber Company, The. (See Snyder, R. W., and Lammertse, assignors.)
Goodyear Tire & Rubber Company, The. (See Woodward, A. W., and Swain, assignors.)
Goodyear-Zeppelin Corporation. (See Dyer, H. T., Liebert, and Swan, assignors.)
Goost, Theodor, Leverkusen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Vulcanization of artificial rubber-like masses. 1,918,466; July 18.
Gore, John, assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Display stand. 1,918,320; July 18.
Gosch, Harry E., assignor to Creo-Dipt Company Inc., North Tonawanda, N. Y. Machine for applying paint or the like to shingles and so forth. 1,918,534; July 18.
Goshikwaisha Ohno Seisakusho. (See Wake, Ichiro, assignor.)
Goskar, Thomas A., Burnham-on-Sea, England. Manufacture of decolorizing or activated carbon. 1,918,467; July 18.
Gottesman, Joseph M., Paris, France, assignor to William Willheim Co., Inc. Textile fabric or similar article. Des. 90,314; July 18.
Graham, Matthew P. (See Hufferd, G. H., Crawford, and Graham.)
Graham, Matthew P. (See Hufferd, G. H., and Graham.)
Grand Rapids Brass Company. (See Roedding, Gordon E., assignor.)
Grandy, Jessie P., et al. (See Read, David Y., assignor.)
Green, Estill I., East Orange, N. J., assignor to American Telephone and Telegraph Company. Transmission control. 1,918,300; July 18.
Green, Reese. (See Hinckley, C. E., and Green.)
Green, Sherwood, Berkeley, Calif. Unloading system. 1,918,330; July 18.
Greenawalt, John E., New York, N. Y. Disposing of refuse matter. 1,918,535; July 18.
Greenidge, Ralph M. C., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Artificial cable and loading coil therefor. 1,919,019; July 18.
Greentree, Irving S., Richmond, Va. Antislip attachment for shoes. 1,918,639; July 18.
Greninger, Robert R., Rochester, N. Y. Expanding tool. 1,918,640; July 18.
Grennor, Frank V. (See St. Jean, P. J., and Grennor.)
Grennor, Frank V., Chicopee, Mass., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Needle loom. 1,919,147; July 18.
Griffiths, William U., Philadelphia, Pa. Valve structure for flush tanks. 1,918,597; July 18.
Grimm, Carl W., Oak Park, assignor to Henry Pratt Company, Chicago, Ill. Rail clamp. 1,918,905; July 18.
Griswold, Roger W., II, Black Hall, Conn. Aeroplane wing. 1,918,536; July 18.
Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Feed-change mechanism for lathes. 1,918,332; July 18.
Groene, William F., and A. W. Aufderhar, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Combined eccentric and concentric turning apparatus. 1,918,331; July 18.
Grohmann, Hans, Hirschfelds, Germany. Safety device for containers for explosives, particularly explosive gases. 1,918,906; July 18.
Grove, Hubert V., et al. (See Adams, Ervin, assignor.)
Grove, William B., et al. (See Adams, Ervin, assignor.)
Gruss, Laura E., administratrix. (See Gruss, Raymond L.)
Gruss, Raymond L., deceased, San Francisco, Calif.; L. E. Gruss, administratrix, assignor, by mesne assignments, to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Shock absorbing device. 1,918,697; July 18.
Gruss, Raymond L., deceased, by L. E. Gruss, administratrix, San Francisco, Calif., assignor, by mesne assignments, to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Shock absorbing strut for aeroplanes. 1,918,698; July 18.
Gruss, Raymond L., deceased, by L. E. Gruss, administratrix, San Francisco, Calif., assignor, by mesne assignments, to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Shock absorbing strut for aeroplanes. 1,918,699; July 18.
Guest, Alfred W. F., Brooklyn, N. Y. Fishline reel. 1,919,104; July 18.
Gueux, Joseph J. M., Ivry-sur-Seine, France. Electrical controlling device for liquid distributors. 1,919,105; July 18.
Gunze Seishi Kabushiki Kwaisha. (See Suzuki, Junichi, assignor.)
Gurrell, Robert E., New York, N. Y. Flame extinguisher. 1,918,808; July 18.
Gustafson, Carl L. (See Ostling, G. A., and Gustafson.)
Gustafson, Gunnar D., Chicago, Ill. Watch timer. 1,918,965; July 18.

Gutehoffnungshütte Oberhausen Aktiengesellschaft. (See Schlotmann, Josef, assignor.)
Guy, Harry L., assignor of one-half to H. J. Luce, Chicago, Ill. Roofing. 1,919,148; July 18.
Habenicht, Frederick K., et al. (See Campbell, S. H., Habenicht, and Pietzsch.)
Hageline, Emil E., assignor to H. D. Lathrop, Chicago, Ill. Conveying mechanism. 1,918,537; July 18.
Hall, Ernest A., assignor to The Hall Manufacturing Company, Toledo, Ohio. Cylinder reamer. 1,918,642; July 18.
Hall Manufacturing Company, The. (See Hall, Ernest A., assignor.)
Hall, William F. (See Warner, Harry C., assignor.)
Hallenbeck, George E., assignor to Baker Brothers, Inc., Toledo, Ohio. Turret indexing means. 1,918,538; July 18.
Hallquist, Stone, assignor to S. M. Siesel Co., Milwaukee, Wis. Mold construction for piling. 1,918,333; July 18.
Hamernick, Stanley, Manville, N. J. Plumb and level. 1,919,106; July 18.
Hamilton, William F. (See Hebler, W. O., and Hamilton.)
Hamlin, Benjamin, M. (See Wheary, G. H., and Hamlin.)
Hammarstrom, John, Bridgeport, Conn. Toy Windmill. 1,918,747; July 18.
Handy, George A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Bead structure for pneumatic tires. 1,918,539; July 18.
Haney, Martin J., et al. (See Adams, Ervin, assignor.)
Hansen Canning Machinery Corporation. (See Hansen, Oswald H., assignor.)
Hansen, Oswald H., assignor to Hansen Canning Machinery Corporation, Cedarburg Wis. Can filling machine. 1,918,641; July 18.
Hanson, Anton E., Chicago, Ill. Washing machine. 1,918,809; July 18.
Harbridge, Chester C., Detroit, Mich. Nut lock. 1,918,263; July 18.
Harder, Herman A., Milwaukee, Wis. Bottle Capping machine. 1,919,060; July 18.
Harding, Brooks B., assignor to G. L. Brown, sr., Los Angeles, Calif. Condensed cataloguing and projecting machine. 1,918,468; July 18.
Hardwick, Ambrose H., East Orange, assignor to Hardwick, Hindle, Inc., Newark, N. J. Contact device for resistors. 1,919,061; July 18.
Hardwick, Hindle, Inc. (See Hardwick, Ambrose H., assignor.)
Hardy, Erhest Arthur. (See Bersey F. T., Hardy, and Newson.)
Hargrave, John M., Cincinnati, Ohio. Clamp and manufacturing the same. 1,918,469; July 18.
Harkness, Andrew M. Nyack, assignor to General Chemical Company, New York, N. Y. Apparatus for treating gas: 1,918,966; July 18.
Harpster, Bert, Beatrice, Nebr. Eyeshade. 1,918,264; July 18.
Harris, Gordon D., Sound Beach, assignor to The Industrial Dryer Corporation, Stamford, Conn. Transportation and holding the tobacco and similar materials. 1,919,107; July 18.
Harris, Hyman H., Philadelphia, Pa. Surgical instrument. 1,918,700; July 18.
Harrison, Abraham N., New York, N. Y. Textile fabric. Des. 90,315; July 18.
Harrison, Charles F. R., and H. W. Strong, Norton-on-Tees, assignors to Imperial Chemical Industries Limited, London England. Destructive hydrogenation of solid carbonaceous material. 1,919,108; July 18.
Hartinger, Hans, assignor to the Firm of Carl Zeiss, Jena, Germany. Instrument for measuring the curvature of the cornea. 1,918,540; July 18.
Hartmann, August, Barmen, Germany, assignor to American Bemberg Corporation, New York, N. Y. Production of artificial silk by the copper oxide ammonia stretch spinning proess. 1,918,470; July 18.
Hartwig, William G., assignor to Railway Utility Company, Chicago, Ill. Balanced fuel control for furnaces. 1,918,265; July 18.
Hawkins, Agnes, Chicago Ill. Shoulder strap. 1,918,748; July 18.
Hawkins, George D. (See Hawkins, Walter S., G. D., and W. J.)
Hawkins, George L., Carrollton, Mo. Combination toilet instrument. Des. 90,316; July 18.
Hawkins, Raymond L., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Cooling means for internal combustion engines. 1,918,471; July 18.
Hawkins, Walter S., G. D., and W. J., Wilkinsburg, Pa. Antiglare shield. 1,918,701; July 18.
Hawkins William J. (See Hawkins, Walter S., G. D., and W. J.)
Haynes, Charles C., Omaha, Nebr. Power operated massage belt. 1,919,062; July 18.
Haynes, Harry N., et al. (See Crane, Hubert R., assignor.)
Hayward, Franklin P., East Braintree, Mass. Chair. Des. 90,317; July 18.
Heather, George B., assignor to The Wire Novelty Manufacturing Company, West Haven, Conn. Button loop. 1,918,334; July 18.
Hebler, William O., Newark, N. J., and W. F. Hamilton, New York, N. Y., assignors to Charles Engelhard, Inc., Newark, N. J. Construction of thermal conductivity cells. 1,918,702; July 18.
Heck, Valentin, Heidelberg, Germany. Quilter for sewing machines. 1,918643; July 18.
Heddon's, James, Sons. (See Bear, Paul S., assignor.)
Heinrich, Walter A., St. Louis, Mo. Fuse and disconnect switch. 1,918,541; July 18.
Heinrich, Walter A., St. Louis, Mo. Hinging means for outdoor switches. 1,918,542; July 18.
Heintz & Kaufman, Ltd. (See Heintz, Ralph M., assignor.)
Heintz, Ralph M., Palo Alto, assignor to Heintz & Kaufman, Ltd., San Francisco, Calif. Portable electric generator. Des. 90,318; July 18.
Helbig, Adolf, assignor to Electricitäts-Gesellschaft "Sanitas" m. b. H., Berlin, Germany. Diathermic and Röntgen apparatus. 1,918,907; July 18.
Helmond, William F., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,916,598; July 18.
Hemphill Company. (See Lawson, Robert H., assignor.)
Hennings, Raymond A., New Orleans, La. Game. 1,918,749; July 18.
Henry, Frederick J., Taunton, Mass. Box trap. 1,918,266; July 18.
Herbein, George W., San Francisco, Calif. Artificial drying oil. 1,918,599; July 18.
Heronimos, Arthur J., London, England. Stroboscopic relative speed indicator. 1,918,908; July 18.
Herriott, William, Freeport, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound recording and reproducing system. 1,918,267; July 18.
Herter, Frederick J., East Cleveland, Ohio, assignor to Camel Company, Chicago, Ill. Car door. 1,918,964; July 18.
Hertzsch, Paul, Markranstadt near Leipzig, Germany. Apparatus for drying and cleaning hides. 1,918,909; July 18.
Hess-Bright Manufacturing Company, The. (See Benson, Carl N., assignor.)
Hessdoefer, George M. (See Furedy, Frank, assignor.)
Hetherington, John, Keyport, N. J. Game device. 1,918,472; July 18.
Heylandt, Christian W. P., Lankwitz, Germany, assignor to Fliga Aktiengesellschaft, St. Morits Switzerland. Container for liquefied gases. 1,918,335; July 18.
Hiering, William C., assignor to J. E. Mergott Company, Newark, N. J. Hand bag. 1,918,703; July 18.
Higbee, Earl V., assignor to The Stanley Works, New Britain, Conn. Plane. 1,918,750; July 18.
Hilgeland, Carl, Wuppertal-Ronsdorf, Germany. Device for controlling the vertical slide on double acting bolt presses. 1,918,910; July 18.
Hillier, Harold, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Liquid level regulator. 1,919,109; July 18.
Hillman, Albert G., assignor to Colourgravure Limited, London, England. Optical systems for cameras for photography or cinematography, particularly in color. 1,919,020; July 18.
Hillman, Albert G., assignor to Colourgravure Limited, London, England. Cameras. 1,919,021; July 18.
Hillman, Albert G., assignor to Colourgravure Limited, London, England. Optical system for cameras for photography or cinematography, particularly in color. 1,919,022; July 18.
Hinchey, William D., New York, N. Y. Razor blade holder. 1,918,704; July 18.
Hinckley, Chester E., and R. Green, Yale, Okla., assignors to Magnolia Petroleum Company, Dallas, Tex. Tool. 1,918,268; July 18.
Hinderliter, Frank J., Tulsa, Okla. Casing head with blowout preventer. 1,918,810; July 18.
Hintz, Henry E., and G. P. Kline, assignors to Williams, White & Co., Moline, Ill. Spacing machine. 1,918,600; July 18.
Hlavaty, Charles F. (See Wirz, Herman, jr., assignor.)
Hoffman, John E., assignor to Deere & Company, Moline, Ill. Hitch. 1,918,391; July 18.
Hoffman, John R., assignor to Madison-Kipp Corporation, Madison, Wis. Hand tool. 1,918,645; July 18.
Hoffman, Samuel, South Orange, assignor to J. Chein & Company, Harrison, N. J. Sail boat. 1,918,543; July 18.
Hofman, Carl, Schonau near Chemnitz, Germany. Ring for spinning and doubling frames. 1,918,644; July 18.
Hohnhorst, Ferdinand J., and F. J. Kroeger, Covington, Ky. Abrading wheel and mounting therefor. 1,918,392; July 18.
Holden, William H. T., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Amplifier of alternating currents. 1,918,393; July 18.
Holland, Cyrus J., Chicago, Ill. Friction draft gear. 1,918,646; July 18.
Holmes, Edward H., assignor to Fort Pitt Malleable Iron Company, McKees Rocks, Pa. Clamping bracket. 1,918,848; July 18.
Holmes Electric Protective Company. (See Chase, Leland H., assignor.)
Hookless Fastener Company. (See Sundback, Gideon, assignor.)
Hoover Company, The. (See Broeske, Paul R., assignor.)

Hoover Company, The. (See Kitto, William H., assignor.)
Hoover Company, The. (See Smellie, D. G., White and Nulsen.)
Hoover Company, The. (See White, Harry B., assignor.)
Hopkinsons Limited. (See Millington, David, assignor.)
Hoppe, Walter H., assignor to General Railway Signal Company, Rochester, N. Y. Polarized relay. 1,918,473; July 18.
Horni, Paul P., Newark, N. J. Pavement marker. 1,918,336; July 18.
Horvath, Stepan, Zagreb, Yugoslavia, assignor of one-half to G. Musulin, Johnstown, Pa. Folding chair. 1,919,110; July 18.
Horwitt, Nathan G., New York, N. Y. Chair. Des. 90,319; July 18.
Hotchkiss, William R., St. Paul, Minn. Blank-book. 1,918,474; July 18.
Hotchner, Fred. (See Scott, George T., assignor.)
Hotchner, Fred, Los Angeles, Calif. Double faced sign. 1,918,616; July 18.
Houghton, E. F., and Company. (See Patch, R. H., and Leaper, assignors.)
Houghton, E. F., and Company. (See Schmidt, John G., assignor.)
House, Charles M., Bloomington, and C. J. Clutter, Normal, Ill. Combined automatic stop and check valve. 1,918,544; July 18.
Household Field Corporation. (See Bungay, George W., assignor.)
Houssin, Victor A. (See Maury, C., and Houssin.)
Hoy, John E., assignor to The Dow Chemical Company, Midland, Mich. Fabricating metal parts of magnesium or magnesium alloys. 1,918,545; July 18.
Hubbard, Ward, Koo-Wee-Rup, Victoria, Australia. Convertible body of vehicles. 1,919,063; July 18.
Huber, Horace H., assignor to Champion Carburetor, a Trust, Indianapolis, Ind. Carburetor. 1,918,751; July 18.
Hudson Motor Car Company. (See Baits, Stuart G., assignor.)
Huff, Ernest, assignor to American Lace Paper Company, Milwaukee, Wis. Paper container. 1,918,811; July 18.
Hufferd, George H., F. C. Crawford, and M. P. Graham, Detroit, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio. Tie rod ball joint. 1,918,394; July 18.
Hufferd, George H., and M. P. Graham, Detroit, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio. Ball joint. 1,918,395; July 18.
Hugetz, Edward, New York, N. Y.. Fountain pen. 1,918,844; July 18.
Hughes, Edward L., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Machine for forming hollow glassware. 1,919,162; July 18.
Hughes Tool Company. (See Fletcher, H. W., and Kuldell, assignors.)
Hughes Tool Company. (See Woods, Gorham W., assignor.)
Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Track relay. 1,919,064; July 18.
Hull, Robert W., assignor to Rex Manufacturing Co. Inc., Connersville, Ind. Refrigerator cabinet. 1,918,911; July 18.
Hulst, Clarence P., Talbot County, Md. Drip pan. 1,918,912; July 18.
Hummert, Robert H., assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio. Electric switch mounting for vehicle spot lamps. 1,918,845; July 18.
Hutchinson, Orrin F. (See Mau, E. A., and Hutchinson.)
Hyde Park Lumber Company, The. (See Cordes, Edward C., assignor.)
Hygienic Tube and Container Company. (See Lermer, Herman B., assignor.)
Hygrade Sylvania Corporation. (See Rogan, John J., assignor.)
Hyman, Henry. (See Abel, Frank J., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Berndt, W., and Ernst, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Fendt, E., and Schörg, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Goost, Theodor, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Korten, Ernst, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Lang, H., and Müller, assignors.)
Ideal Lubricator Company. (See Culp, John F., assignor.)
Imperial Chemical Industries Limited. (See Harrison, C. F. R., and Strong, assignors.)
Imperial Chemical Industries Limited. (See Wheeler, T. S., and Mason, assignors.)
Incorporated Paper Industries. (See Oliver, Ruth, assignor.)
Industrial Development Corporation. (See Wilkins, Richard A., assignor.)
Industrial Dryer Corporation, The. (See Harris, Gordon D., assignor.)
Ingersoll-Rand Company. (See Smith, William A., sr., assignor.)
Ingmanson, John H. (See Kemp, A. R., and Ingmanson.)
Inland Manufacturing Company, The. (See Chilton, Ralph H., assignor.)
Inland Manufacturing Company, The. (See Geyer, Harvey D., assignor.)
Insley Manufacturing Company, The. (See Rasmussen, Alvin C., assignor.)
Intercontinental Rubber Company. (See Spence, David, assignor.)
International Combustion Engineering Corporation. (See Wood, Wilfred R., assignor.)
International Motor Company. (See Masury, Alfred F., assignor.)
International Patents Development Company. (See Kerr, R. W., and Berlin, assignors.)
Ireland, Lewis J., Austin, Tex., assignor to Triploil Manufacturing Company, Wilmington, Del. Reclamation of crank case or used oils. Re18,898; July 18.
Isdahl, Einar, Oslo, Norway. Admission of air to the induction pipes of internal combustion engines. 1,918,913; July 18.
Isham, Robert M., and O. Spring, Okmulgee, Okla., assignors to Doherty Research Company, New York, N. Y. Manufacturing chlorhydrins. 1,918,967; July 18.
Ittner, Martin H., Jersey City, N. J., assignor to Colgate-Palmolive-Peet Company, Chicago, Ill. Making soap and glycerine. 1,918,608; July 18.
Ives, Herbert E., Montclair, N. J. Parallax panoramagram. 1,918,705; July 18.
Jackson, Edward H., and H. J. Cameron, Fort Wayne, Ind., assignors to General Electric Company. Resinous composition and preparing the same. 1,919,168 July 18.
Jacobs, Ernest H., River Forest, assignor to Electrical Engineers Equipment Co., Melrose Park, Ill. Switch. 1,919,065; July 18.
Jacobsen, Jens N., assignor to The Pfaudler Co., Rochester, N. Y. Liquid treating apparatus; 1,918,752; July 18.
Jacobsen, Jens N., assignor to The Pfaudler Co., Rochester, N. Y. Fluid treating apparatus. 1,918,753; July 18.
Jacobsen, Jens N., Alameda, Calif., assignor to the Pfaudler Co., Rochester, N. Y. Apparatus for treating liquids. 1,918,914; July 18.
Jacocks, George T., S. J. Chute, and J. B. Forbes, assignors to Alco Products, Incorporated, New York, N. Y. Heat exchanger. 1,918,601; July 18.
Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Purification of benzoic acid and its derivatives. 1,919,023; July 18.
Jaeger Machine Company, The. (See Mosel, J. H., and Schwemler, assignors.)
Jaquith, William K. (See Burrows, Robert W., assignor.)
Jellow, Helen H., administratrix. (See Jellow, Timothy.)
Jellow, Timothy, deceased, Quincy; H. H. Jellow, administratrix, Cambridge, Mass. Method of and apparatus for sand-blasting intaglio designs in stone and the like. 1,918,269; July 18.
Jensen, Jens, Rhame, N. Dak. Animal poke. 1,918,647; July 18.
Jerome, Horace M., Ann Arbor, assignor to U. S. Pressed Steel Company, Ypsilanti, Mich. Boiler construction. 1,919,164; July 18.
Jezler, Hubert, Zurich, Switzerland. Steam boiler. 1,918,396; July 18.
Jezler, Hubert, Zurich, Switzerland. Firing of steam boilers. 1,918,397; July 18.
Jiffy Battery Terminal Corporation. (See Wallenberg, Frank J., assignor.)
Johannsen, Udo K., assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Radiator shutter. 1,918,846; July 18.
Johanson, Carl U., et al. (See Anderson, Carl J., assignor.)
Johnson, Bernard O., Sonora, Calif. Artificial respirator. 1,918,546; July 18.
Johnson, Jay M., Chicago, Ill. Fare register. 1,918,915; July 18.
Johnson, Roy W. (See Gauger, F. A., and Johnson.)
Johnson, Walter, assignor of one-half to C. E. Perkins, Mount Dora, Fla. Puzzle. 1,918,754; July 18.
Johnson, Will R., Stockton, assignor to Richmond-Chase Company, San Jose, Calif. Distributor for grading machines. 1,918,398; July 18.
Johnson, William P., Des Moines, Iowa. Tub support. 1,918,604; July 18.
Jones, Carl H., Oak Park, and W. H. Kretlow, assignors to Wm. J. Stange Co., Chicago, Ill. Method and material for applying water soluble colors to fatty foodstuffs. 1,919,025; July 18.
Jones, Elmer M., assignor to Parker Rust-Proof Company, Detroit, Mich. Chromium plating. 1,918,605; July 18.
Jones, Frank H., Boise, Idaho. Spring suspension for vehicles. 1,918,755; July 18.
Jones, Henry A., Lynwood, assignor to Frank V. Long, Compton, Calif., trustee. Breather valve for tanks. 1,918,337; July 18.
Joyce, Roy E., East Los Angeles, Calif. House service gas regulator. 1,918,602; July 18.
Judy, Philip S., Kansas City, Mo. Apparatus for cleaning the filter bed of a well. 1,918,756; July 18.
Junkins, Raymond D. (See Albright, J. C., and Junkins.)
Kannengiesser, Paul, Pankow-Berlin, Germany, assignor to General Electric Company. Supervision of protective apparatus for electric systems. 1,919,066; July 18.

Karr, Charles D., Holland, Mich. Spring assembly. 1,918,399; July 18.

Kastar Specialty Mfg. Co. (See Lambert, Herbert, assignor.)

Kaufmann, Hans, Jena, Germany. Making silicyl compounds. 1,918,338; July 18.

Keating, John H., Lakewood, and J. W. Coates, Cleveland, Ohio. Lubricant applicator for polishing wheels and the like. 1,919,026; July 18.

Keeney, Robert M., and J. F. Ferm, Midland, Pa. Rolling mill. 1,918,968; July 18.

Kegl, Zoltan J., Hollywood, Calif., and H. M. Larsen, La Grange, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for determining characteristics of a fluid. 1,918,270; July 18.

Keith, David F., Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Automatic control for intermittent absorption refrigeration apparatus. 1,918,969; July 18.

Keith, David F., Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Automatic control for absorption refrigerating machines. 1,918,970;

Keith, Wilfred D., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Purifying aluminum. 1,918,339; July 18.

Keller, Arthur C., Mount Vernon, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound recording and reproducing system. 1,918,271; July 18.

Keller, Hans, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland. Electric current rectifier control system. 1,918,757; July 18.

Kelsey-Hayes Wheel Corporation. (See Schmidt, Karl, assignor.)

Kelsey-Hayes Wheel Corporation. (See White, John W., assignor.)

Kelvinator Corporation. (See Misner, Edgar D., assignor.)

Kelvinator Corporation. (See Spreen, Maxwell H., assignor.)

Kemp, Archie R., Westwood, and J. H. Ingmanson, Bloomfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Insulation compound. 1,918,971; July 18.

Kent, Raymond W., Newton, Mass., assignor to Thermoid Rubber Company, Trenton, N. J. Friction disks and making the same. 1,919,111; July 18.

Kerr, Ralph W., Yonkers, and H. Berlin, New York, N. Y., assignors to International Patents Development Company, Wilmington, Del. Treatment of steep water. 1,918,812; July 18.

Kidde, Walter, & Company. (See Mapes, Daniel, assignor.)

Kieswetter, Edward P. (See Schario, A. L., and Kieswetter.)

Kindl, Joseph V., assignor to The W. J. Schoenberger Company, Cleveland, Ohio. Gas valve. 1,918,758; July 18.

King, John H., Amityville, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Phonograph reproducer. 1,918,972; July 18.

Kingsbury, Harry T., assignor to Kingsbury Mfg. Company, Keene, N. H. Battery flash light. Des. 90,320; July 18.

Kingsbury, Harry T., assignor to Kingsbury Mfg. Company, Keene, N. H. Battery flash light. Des. 90,321; July 18.

Kingsbury Mfg. Company. (See Kingsbury, Harry T., assignor.)

Kinkead, Fullerton S., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph repeating system. Re18,900; July 18.

Kinnebrock, Franz. (See Weber, R., Bremen, and Kinnebrock.)

Kinney, G. R., Co. (See Malcolm, George, assignor.)

Kintzing, Reese T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor control system. 1,918,973; July 18.

Kinzie, Phillip A., assignor to Universal Hydraulic Corporation, Denver, Colo. Hydro-mechanically controlled needle valve. 1,919,112; July 18.

Kinzie, Phillip A., assignor to Universal Hydraulic Corporation Denver, Colo. Valve. 1,919,165; July 18.

Kinzy, Jacob, Brooklyn, N. Y. Camera case. 1,918,813; July 18.

Kirby, Charles H., assignor to Marvel Carbureter Company, Flint, Mich. Down draft carburetor. 1,918,974; July 18.

Kirubauer, Michael, Forest Park, Ill. Automatic door release mechanism. 1,918,847; July 18.

Kirschbraun, Lester, Leonia, N. J., assignor, by mesne assignments, to The Flintkote Corporation, Boston, Mass. Treating emulsions. 1,918,759; July 18.

Kirstin, Alfred J. (See Titsworth, Fred L., assignor.)

Kitto, William H., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 1,918,400; July 18.

Kitzelman, Frank assignor to Acorn Wire & Iron Works, Chicago, Ill. Gate lock. 1,918,814; July 18.

Klein, Jakob, assignor of fifty percent to Max Backer, New York, N. Y. Railroad crossing barriers. 1,918,815; July 18.

Kleinow, Walter, Hennigsdorf near Berlin, assignor to Allgemeine Elektricitäts-Gesellschaft, Berlin, Germany. Pulverized fuel locomotive boiler. 1,918,401; July 18.

Kline, George P. (See Hintz, H. E., and Kline.)

Klopsteg Paul E., Evanston, assignor to Central Scientific Company, Chicago, Ill. Radio demonstration apparatus. 1,918,402; July 18.

Klotzman, Aaron, Baltimore, Md., assignor to May Oil Burner Corporation, Atomizer. 1,919,027; July 18.

Knaak, George A., Milwaukee, Wis. Fluid pressure regulator. 1,918,340; July 18.

Knaak, George A., Milwaukee, Wis. Fluid meter. 1,918,341; July 18.

Knoxville Fertilizer Co. (See Dean, James W. and J. H., assignors.)

Kobler, Paul, Lynbrook, N. Y. Book page holder. 1,918,547; July 18.

Kobler, Victor. (See Kobler, Werner and V.)

Kobler, Werner and V., Zurich, Switzerland. Magazine pencil. 1,918,916; July 18.

Koerner, Allan M. (See Phelps, W. A., and Koerner.)

Kohler Company. (See Brotz, Anton F., assignor.)

Köhler, Peter, Stockholm, Sweden, assignor, by mesne assignments, to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,918,342; July 18.

Kohut, Alexander, assignor to William Willheim Co., Inc., New York, N. Y. Textile fabric or similar article. Des. 90,322; July 18.

König, Albert, assignor to the Firm Carl Zeiss, Jena, Germany. Tacheometric telescope. 1,918,548; July 18.

Koppelman, Morris, Brooklyn, N. Y., assignor, by mesne assignments, to Packing Products Corporation. Packing for fragile articles. 1,919,028; July 18.

Kopriver, Frank, jr., Duquesne, and P. Henry Abbott, West Newton, Pa. Soil pulverizing and refining apparatus. 1,918,917; July 18.

Kopsa, Julius, Chicago, and E. D. Brigham, jr., Highland Park, assignors to North American Car Corporation, Chicago, Ill. Thermostatic control valve for refrigerator cars. 1,918 272; July 18.

Kormann, Frederick A., Glendale, and J. A. Milliff, Comton, assignors to Baldwin Vale, San Francisco, Calif. Processing lubricants. 1,918,403; July 18.

Korten, Ernst, Frankfort-on-the-Main-Fechenheim, assignor to I. G. Farbenindustrie, Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacturing ar-tetrahydronaphthol ethers. 1,918,648; July 18.

Koumoutsakos, Peter, Brooklyn, N. Y. Submarine rescue device. 1,918,405; July 18.

Kountzman, Joseph M. (See Fleischli, J. A., and Kountzman.)

Kovács, Theodor, Berlin-Schoneberg, Germany. Fountain pen. 1,918,404; July 18.

Krause, Arthur R. (See Parlato, P. J., and Krause.)

Krause, William. (See Bachmann, A. B., and Krause.)

Kretlow, Wilbur H. (See Jones, C. H., and Kretlow.)

Kroeger, Ferdinand J. (See Hohnhorst, F. J., and Kroeger.)

Kroenlein, Henry A. (See Lang, H. T., and Kroenlein.)

Kröhl, Fritz, Reinickendorf-ost near Berlin, Germany. Bevel drive for the steering wheels of motor vehicles. 1,918,649; July 18.

Kronheim, Jacob, Cleveland, Ohio. Resilient bottom for upholstered chairs, box springs, automobile seats, couches, etc. 1,918,760; July 18.

Kronheim, Jacob, Cleveland, Ohio. Resilient bottom for upholstered furniture. 1,918,761; July 18.

Kropp, William, Weatherly, assignor to The Rails Company, New York, N. Y. Rail and flange oiler. 1,918,406; July 18.

Kuldell, Rudolph C. (See Fletcher, Harold W., and Kuldell.)

Kusebauch, Anton K., Bellevue, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Train pipe coupling. 1,918,273; July 18.

Laabs, Eric H., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Web severing device. 1,918,407; July 18.

La Barre, George H. (See Gentry, Ralph R., assignor.)

La Chapelle, Fred N., and F. C. Eastman, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,918,274; July 18.

La Couture, Henry C., Kearney Township, Hudson County, N. J., assignor to Bigelow Sanford Carpet Co., Inc. Rug. Des. 90,323; July 18.

Lake, Jarrett T., Wilmette, assignor to Economy Electric Devices Co., Chicago, Ill. Fuel metering apparatus. 1,918,606; July 18.

Lakin-Smith, Clifford, Westminster, London, England. Plunger pump. 1,918,408; July 18.

La Maida, Thomas, Cleveland, Ohio. Bathing suit. 1,918,650; July 18.

Lambert, Herbert, Brooklyn, assignor to Kastar Specialty Mfg. Co., New York, N. Y. Foot Pedal attachment. 1,918,918; July 18.

Lambert, Herbert, Brooklyn, assignor to Kastar Specialty Mfg. Co., Inc., New York, N. Y. Pedal pad. 1,918,919; July 18.

Lammertse, Meindert. (See Snyder, R. W., and Lammertse.)

Land, Edwin H., Norwich, Conn., and J. S. Friedman, Brookline, Mass., assignors to Norwich Research, Inc., New York, N. Y. Polarizing refractory bodies. 1,918,848; July 18.

Landon, Vernon D., Boonton, N. J., assignor to Westinghouse Electric & Manufacturing Company. Radio amplifier. 1,918,975; July 18.

Laneres, Jules, West Warwick, R. I., assignor to Stern Lace Co. Inc., New York, N. Y. Lace. Des. 90,324; July 18.

Lang, Henry T., Cleveland Heights, and H. A. Kroenlein, assignors to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Beater for vacuum cleaners. 1,919,067; July 18.

Lang, Hermann, Piesteritz, Bez. Halle-on-the-Saale, and W. Müller, Wittenberg, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Purification of electrolytes. 1,918,477; July 18.

Langdon, Robert S., Sumner, assignor to Pacific Car and Foundry Company, Seattle, Wash. Boom yarder. 1,918,409; July 18.

Larsen, Henry M. (See Kegl, Z. J., and Larsen.)

Larson, Lourie W., Chicago, Ill. Mothproof mohair. 1,918,649; July 18.

Larter, Warren R., South Orange, N. J. Collar clasp. 1,918,275; July 18.

Lassinsky, Morris, Brooklyn, N. Y. Vehicle door. 1,918,475; July 18.

Lathrop, Harry D. (See Hageline, Emil E., assignor.)

Lauster, Franz, Berlin-Steglitz, Germany, assignor to General Electric Company. Temperature regulator. 1,919,068; July 18.

Lavarack, Frederick C., Montclair, N. J., assignor to Railroad Accessories Corporation, New York, N. Y. Relay rack. 1,919,166; July 18.

Lawson, Robert H., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Knitting machines. 1,918,762; July 18.

Laycock, John N., Port au Prince, Haiti. Sealing gasket. 1,918,478; July 18.

Leaper, Joseph M. (See Patch, R. H., and Leaper.)

Le Blond, R. K., Machine Tool Company, The. (See Groene, William F., assignor.)

Le Blond, R. K., Machine Tool Company, The. (See Groene, W. F., and Aufderhar, assignors.)

LeComte, Gustave, Ronssillon, France, assignor, by mesne assignments, to Du Pont Rayon Company, New York, N. Y. Manufacturing artificial threads. 1,918,816; July 18.

Ledwinka, Joseph, assignor to E. G. Budd Manufacturing Company, Philadelphia, Pa. Vehicle body front construction. 1,918,410; July 18.

Lee, Leslie N. (See Dreyfus, C., Martin, and Lee.)

Leeson, Bruce H. (See Clothier, H. W., Leeson, and Leben.)

Lehmann, Walter, Wuppertal-Elberfeld, assignor to Walter Peyinghaus, Egge near Volmarstein, Ruhr, Germany. Lubricating means for axle bearings of vehicles. 1,919,113; July 18.

Leib, August, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Radio direction finder. 1,918,850; July 18.

Lefmer, Herman B., assignor to Hygienic Tube and Container Company, Newark, N. J. Applicator. 1,918,706; July 18.

Leukhardt, John C., jr., Washington, D. C. Cigarette and match pack. 1,918,476; July 18.

Lewis, G. B., Company. (See Frater, Gordon G., assignor.)

Lewis, Harold A., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Ignition composition. 1,918,920; July 18.

Ley, George A., Chicago, Ill. Lamp stand. 1,919,114; July 18.

Libbey Cataphote Corporation. (See Seidenberg, Edwin J., assignor.)

Liebert, Herman R. (See Dyer, Horace T., Liebert, and Swan.)

Lightfoot, Isaac C., San Bernardino, Calif. Dry concentrator. 1,918,848; July 18.

Lillard, William W., Mahwah, N. J. Electric body warming device. 1,918,276; July 18.

Lincoln Electric Company, The. (See Lincoln, J. F., and Dreese.)

Lincoln, James F., East Cleveland, and E. E. Dreese, Euclid, assignor to The Lincoln Electric Company, Cleveland, Ohio. Dynamo-electric machines. 1,918,763; July 18.

Lindemann, A. J., & Hoverson Company. (See Lindemann, W. C., and Lorens, assignors.)

Lindemann & Hoverson Company. (See Schmidt, Adolph T., assignor.)

Lindemann, Walter C., and G. C. Lorens, assignors to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Wick burner. 1,918,851; July 18.

Lindh, Frank C., Chicago, Ill. Fence construction. 1,918,607; July 18.

Line Material Company. (See Steinmayer, Alwin G., assignor.)

Lionel Corporation, The. (See Bonanno, Joseph L., assignor.)

Lippens, Maurice, Kewanee, Ill. Fruit jar sealer. 1,918,921; July 18.

Little, Donald G., East Springfield, and N. C. Deibaugh, Longmeadow, Mass., assignors to Westinghouse Electric and Manufacturing Company. Radio signaling means. Re18,895; July 18.

Ljungquist, Gustaf, Stockholm, Sweden, assignor to Electrolux Corporation, Dover, Del. Vacuum cleaner. 1,918,764; July 18.

Lockwood Manufacturing Company, The. (See Schultz, Fred, assignor.)

Lombardini, Luigi, Turin, Italy. Vertical card filing cabinet. 1,918,765; July 18.

Long, Frank Y. (See Jones, Henry A., assignor.)

Lorens, Gustav C. (See Lindemann, W. C., and Lorens.)

Lowe, Charles B., assignor to Ferro Stamping & Manufacturing Company, Detroit, Mich. Automobile door handle. 1,918,411; July 18.

Luce, Homer J. (See Guy, Harry L., assignor.)

Lucke, Charles E., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Mercury vapor condenser and steam generator. 1,919,029; July 18.

Lufkin, Gerland, Toledo, Ohio, assignor to Owens-Illinois Glass Company. Leer for annealing glassware. 1,919,167; July 18.

Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Schirmer, Max, assignor.)

Lukas, Julia, assignor to William Willheim Co., Inc., New York, N. Y. Textile fabric or similar article. Des. 90,325; July 18.

Lukas, Julia, assignor to William Willheim Co., Inc., New York, N. Y. Textile fabric or similar article. Des. 90,326; July 18.

Luttrell, Alvin G., Dallas, Tex. Windshield heater and wiper. 1,918,651; July 18.

Lux Clock Manufacturing Company. (See Lux, Paul, assignor.)

Lux, Paul, assignor to Lux Clock Manufacturing Company, Waterbury, Conn. Combined clock case and dial. Des. 90,327; July 18.

Mackay, Charles W., Tulsa, Okla., assignor to The Texas Company, New York, N. Y. Treatment of hydrocarbon oils. 1,918,766; July 18.

MacMullen, John S., San Francisco, Calif. Windshield construction. 1,918,922; July 18.

Madison-Kipp Corporation. (See Hoffman, John R., assignor.)

Magnolia Petroleum Company. (See Hinckley, C. E., and Green, assignors.)

Mahon, R. C., Company, The. (See Miller, William G., assignor.)

Mahoney, John C., Elizabeth, N. J., assignor to Alco Products Incorporated, New York, N. Y. Apparatus for condensing hydrocarbons. 1,918,608; July 18.

Maine, Vernon M., assignor to Rhinelander Refrigerator Co., Rhinelander, Wis. Water cooler. 1,918,767; July 18.

Malcolm, George, Old Greenwich, Conn., assignor to G. R. Kinney Co., Inc., New York, N. Y. Store front. Des. 90,328; July 18.

Mantell, Charles L., Brooklyn, assignor to Dudzeele Corporation of America, New York, N. Y. Removing lead from tubes and other articles. 1,918,817; July 18.

Mapes, Daniel, Upper Montclair, N. J., assignor to Walter Kidde & Company, Inc., New York, N. Y. Discharge control means for stored pressure medium containers. 1,919,149; July 18.

Marbach, Edward R., Cleveland, Ohio. Yielding stop. 1,918,652; July 18.

Marder, Leo, Brooklyn, N. Y. Hand mirror. Des. 90,329; July 18.

Marder, Leo, Brooklyn, N. Y. Hand mirror. Des. 90,330; July 18.

Marder, Leo, Brooklyn, N. Y. Hand mirror. Des. 90,331; July 18.

Marguglio, Christoper, New York, N. Y. Reaction propulsion means. 1,918,277; July 18.

Markkula, Victor, Aberdeen, Wash. Hose reel and drier. 1,918,768; July 18.

Marrison, Warren A., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piezo-electric crystals. 1,918,976; July 18.

Marrison, Warren A., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Synchronous motor. 1,918,977; July 18.

Marsack, Max, Sheboygan, Wis. Mattress construction. 1,918,412; July 18.

Marshall, Emery C., Kansas City, Mo., and M. J. Burkhard, Kansas City, Kans., assignors to White Eagle Oil and Refining Company, Kansas City, Mo. Apparatus for the treatment of hydrocarbon oils. 1,918,278; July 18.

Martin, Glenn L., Company, The. (See Churcher, William B., assignor.)

Martin, Herbert E. (See Dreyfus, C., Martin, and Lee.)

Martin, Perry S., Harrisonburg, Va. Egg cleaning machine. 1,918,653; July 18.

Martin, Walter A., La Crescenta, Calif. Aerial toy. 1,918,413; July 18.

Marvel Carburetor Company. (See Chambers, Howard M., assignor.)

Marvel Carburetor Company. (See Kirby, Charles H., assignor.)

Marx, Erich, Frankfort-on-the-Main, Germany. Internal cylinder grinding tool. 1,918,852; July 18.

Mason, John. (See Wheeler, T. S., and Mason.)

Masterson, John J., Brockton, Mass. Antislipping calk for shoes. 1,918,279; July 18.

Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Endless track for motor vehicles. 1,918,853; July 18.
Mathey, Nicholas W., Boston, Mass. Finish removing machine. 1,918,769; July 18.
Matthews, Herbert. (See Seator, Robert J., assignor.)
Mau, Edward A., Arlington, N. J., and O. F. Hutchinson, assignors to Rockbestos Products Corporation, New Haven, Conn. Apparatus for insulating wire. 1,918,344; July 18.
Maury, Charles, and V. A. Houssin, Bordeaux, France. Device for giving moving pictures the appearance of relief. 1,919,115; July 18.
Maus, Frank J. (See Franklin, L. W., and Maus.)
May Oil Burner Corporation. (See Klotzman, Aaron, assignor.)
Mayr, Karl A. (See Pontow, W., Abendroth, Schroeder, and Mayr.)
Maytag Company, The. (See Mikulasek, John, assignor.)
McCann, Michael, St. Albans, assignor to Frederick Osann Company, New York, N. Y. Shanking buttons. 1,918,280; July 18.
McCann, Michael, St. Albans, assignor to Frederick Osann Company, New York, N. Y. Shanking buttons. 1,918,281; July 18.
McCall, Charles S. (See Brasington, John M., assignor.)
McClenahan, Francis M., Monmouth, Ill. Recovering alumina from silicates. 1,918,923; July 18.
McClintic-Marshall Company. (See McHose, Kern W., assignor.)
McCormick, Thomas J., Detroit, Mich. Tire cover. 1,918,549; July 18.
McCray, Harold E., assignor to John Deere Tractor Company, Waterloo, Iowa. Tractor. 1,919,069; July 18.
McGrew, John A., Albany, N. Y. Superheater. 1,918,654; July 18.
McGrew, John A., Albany, N. Y. Locomotive boiler construction. 1,918,655; July 18.
McHose, Kern W., Narberth, Pa., assignor to McClintic Marshall Corporation. Structural member. 1,918,346; July 18.
McHose, Kern W., Philadelphia, assignor to McClintic-Marshall Company, Pittsburgh, Pa. Joist, beam, girder, and the like. 1,918,345; July 18.
McKay, Hobart J., and P. J. Carlsen, St. Paul, Minn., assignors, by mesne assignments, to The Richardson Company, Lockland, Ohio. Hydraulic press. 1,919,070; July 18.
McKeefe, Edward P. (See Bradley, L., and McKeefe.)
McKeen, Earl H., et al. (See Crane, Hubert B., assignor.)
McLaughlin, Roy P., South Pasadena, Calif. Apparatus for orienting suspended pipes and the like. 1,918,550; July 18.
McLean, Robert W., assignor to Carver Cotton Gin Company, Bridgewater, Mass. Gin saw blade and making same. 1,918,770; July 18.
McMillen, Homer E. (See Stamsvik, Alfred L., assignor.)
McNey, James A., Harding, Pa. Steam and hot water generator. 1,918,414; July 18.
McShane, Phelan, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Field failure protective relay. 1,918,978; July 18.
Mead, George A., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley head. 1,918,854; July 18.
Mechanische Spinnerei & Weberei Greven, Hermann Biederlack & Co. (See Schmitt, Adolf, assignor.)
Meem, James C., Brooklyn, N. Y. Constructing tunnels. 1,918,855; July 18.
Mellor, John, Bay Head, N. J. Piston ring. 1,918,707; July 18.
Mergott, J. E., Company. (See Hiering, William C., assignor.)
Merrick, Frank W., Boston, Mass. Safety razor. 1,918,856; July 18.
Merrill, Albert D. (See Dunbar, T. L., and Merrill.)
Merrill, Sidney B., assignor to The E. W. Vanduzen Company, Cincinnati, Ohio. Construction of bells. 1,918,551; July 18.
Merritt, Edward H., Fort Wayne, Ind. Remote control system for radio receiving sets. 1,918,857; July 18.
Metropolitan Device Corporation. (See Murray, Thomas E., assignor.)
Metzger, Otto, Nuremberg, assignor to Vereinigte Deutsche Metallwerke A.-G., Zweigniederlassung Süddeutsche Metallindustrie, Nuhemberg-W, Germany. Matrix for extruding metals. 1,918,858; July 18.
Meuer, George J., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 1,918,232; July 18.
Meyer, August, Berlin-Schoneberg, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt Germany. Eddy current track braking apparatus. 1,918,859; July 18.
Meyer, Edward B., Newburgh, N. Y. Snowplow. 1,918,771; July 18.
Meyers, Edward G., Maplewood, N. J., assignor to M. C. D. Borden & Sons, Inc., New York, N. Y. Textile fabric. Des. 90,332; July 18.
Meyers, Edward G., Maplewood, N. J., assignor to M. C. D. Borden & Sons, Inc., New York, N. Y. Textile fabric. Des. 90,333; July 18.
Michaelsen, Leonard C., Dow City, Iowa. Aeroplane. 1,918,656; July 18.
Mid-West Forging Company. (See Rogers, Earl B., assignor.)
Mikulasek, John, assignor to The Maytag Company, Newton, Iowa. Water shedding device for washing machines and the like. 1,918,609; July 18.
Millar, Francis H., Los Angeles, Calif. Reel for electric cord. 1,918,657; July 18.
Miller Company, The. (See Doane, Leroy C., assignor.)
Miller Company, The. (See Naysmith, Shirley R., assignor.)
Miller, James A., Forest Hills, N. Y. Sound record and method of and apparatus for making it. 1,919,116; July 18.
Miller, James A., Forest Hills, N. Y. Sound record blank. 1,919,117; July 18.
Miller, Robert E., Bronxville, N. Y. Collapsible and adjustable wall rack. 1,918,708; July 18.
Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Recovery of tar acids. 1,918,283; July 18.
Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Operation of coke ovens and the like. 1,918,709; July 18.
Miller, William C. (See Abbott, A. L., and Miller.)
Miller, William G., assignor to The R. C. Mahon Company, Detroit, Mich. Combined bracket and guide for rolling steel doors. 1,918,415; July 18.
Milliff, John A. (See Kormann, F. A., and Milliff.)
Millington, David, assignor to Hopkinsons Limited, Huddersfield, England. Forced feed lubricator. 1,919,118; July 18.
Mills, Frank Moore, Darien, Conn. Mechanism for photographic printing. 1,919,030; July 18.
Mills, John S., St. Louis, Mo. Combined metal door jamb and trim. 1,919,071; July 18.
Milne, Charles S., Deptford, London, England. Acetylene generator. 1,918,479; July 18.
Miner, W. H., Inc. (See O'Connor, John F., assignor.)
Minevitch, Borrah, New York, N. Y. Harmonica. Des. 90,334; July 18.
Mingle, Joseph P., assignor to Ball Brothers Company, Muncie, Ind. Wiring machine. 1,918,552; July 18.
Minneapolis-Honeywell Regulator Company. (See Bear, Paul S., assignor.)
Minneapolis-Honeywell Regulator Company. (See Gauger, F. A., and Johnson.)
Mintner, Corban, assignor to St. Louis & O'Fallon Coal Company, St. Louis, Mo. Closure seal for vertical coking retorts. 1,918,860; July 18.
Misner, Edgar D., assignor to Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 1,918,818; July 18.
Mitcham, Edward H., New York, N. Y. Juice extractor. 1,918,658; July 18.
Mitchell, Allister S., Oakland, Calif., assignor to National Automotive Fibres, Inc., Detroit, Mich. Upholstery-making machine and process. 1,918,284; July 18.
Mitchell, August, New York, N. Y., assignor to The Chase Companies, Incorporated, Waterbury, Conn. Flash light. 1,918,347; July 18.
Mitchell, John E., Dallas, Tex. Cotton treating machine. 1,918,610; July 18.
Möller, Alfred. (See Reifurth, O., and Möller.)
Molnar, Nicholas M. (See De Nagy, Bela, assignor.)
Montelius, Carl Oscar Josef, assignor to Aktiebolaget Imoindustrie, Stockholm, Sweden. Manufacturing screws. 1,918,861; July 18.
Moon, John W., assignor to Fretz-Moon Tube Company, Inc., Butler, Pa. Apparatus for manufacturing tubing. 1,918,772; July 18.
Moore, Edmund W., assignor to General Railway Signal Company, Rochester, N. Y. Light signal. 1,918,480; July 18.
Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Internal combustion engine. 1,918,481; July 18.
Morehouse, Cyrus E., Clifton Heights, Pa. Easel type loose leaf binder. 1,918,773; July 18.
Morrison Bros. (See Glab, William N., assignor.)
Mosel, Joseph H., Lakewood, and F. J. Schwemler, Shaker Heights, assignors to The Jaeger Machine Company, Columbus, Ohio. Road paving form. 1,918,710; July 18.
Moussier, Léandre, Paris, France. Foot operated platen lifting device for calculating machines. 1,918,416; July 18.
Mueller Brass Co. (See Robinson, Ward M., assignor.)
Mueller Co. (See Mueller, Robert H., assignor.)
Mueller, Robert H., assignor to Mueller Co., Decatur, Ill. Forming a pipe joint. 1,918,417; July 18.
Muhleisen, Karl, assignor to Schutte and Koerting Company, Philadelphia, Pa. Duplex strainer. 1,919,031; July 18.
Müller, Oskar, assignor to Gebruder Brehmer, Leipsig-Plagwitz, Germany. Mechanism for automatically selecting and severing the terminal threads of a stitched book or the like. 1,918,482; July 18.
Müller, Paul, Berlin-Siemensstadt, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany. Receiver apparatus for wireless communication. 1,918,819; July 18.
Müller, Wilhelm. (See Lang, H., and Müller.)
Münch, Carl, Duren, Germany. Producing abrasive paper and the like. 1,918,418; July 18.

Munday, Horace D., Schenectady, N. Y. Truing apparatus. 1,918,483; July 18.
Munday, Richard B., Oakwood, Ohio. Tennis racket. 1,919,072; July 18.
Murphy, Robert C. (See Etsenhouser, F. H., Murphy, and Tandy.)
Murray Company, The. (See Behle, Joseph, assignor.)
Murray, John F., executor, et al. (See Murray, Thomas E.)
Murray, Joseph B., executor, et al. (See Murray, Thomas E.)
Murray, Stephen D., Dallas, Tex. Cotton cleaner and feeder. 1,918,774; July 18.
Murray, Thomas E., jr., executor, et al. (See Murray, Thomas E.)
Murray, Thomas E., deceased, Brooklyn, N. Y., J. B. Murray, T. E. Murray, jr., and J. F. Murray executors, assignors to Metropolitan Device Corporation. Circuit breaker. 1,918,711; July 18.
Musselman, Alvin J., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Pneumatic tire and making it. 1,918,553; July 18.
Musulin, George. (See Horvath, Stepan, assignor.)
Myers, Harold L., Morristown N. J., assignor to The American Floor Surfacing Machine Company, Toledo, Ohio. Display device. 1,918,712; July 18.
Nabstedt, Arthur T., Hamden, assignor to The Snow & Petrelli Manufacturing Company, New Haven, Conn. Reverse gear. 1,918,775; July 18.
Nallinger, Fritz, assignor to Daimler-Benz Aktiengesellschaft Stuttgart-Unterturkheim, Germany. Air temperature regulator. 1,918,659; July 18.
National Aluminate Corporation. (See Partridge, Edwin M., assignor.)
National Automotive Fibres, Inc. (See Mitchell, Allister S., assignor.)
National Blank Book Company. (See Schade., John, assignor.)
National Lock Co. (See North, Edwin W., assignor.)
National Metal Edge Box Company. (See Stanger, William D., assignor.)
National Police Signal Company. (See Bauer, Gustav F. C., assignor.)
National Supply Company, The. (See Faulkner, D. S., and Zerbe, assignors.)
National Supply Company, The. (See Rice, Allen E., assignor.)
National Supply Company, The. (See Spalding, John D., assignor.)
Naugatuck Chemical Company, The. (See Fisher, Harry L., assignor.)
Naysmith, Shirley R., Cleveland, Ohio assignor to The Miller Company, Meriden, Conn. Lighting fixture. 1,918,484; July 18.
Neddermeyer, Otto, Wabern, Germany. Removing and cleaning ballast. 1,918,848; July 18.
Needham, Robert J. Toronto, Ontario, Canada. Loading and unloading cars. 1,918,419; July 18.
Needham, Robert J., Toronto, Ontario, Canada. Arch for boiler fireboxes. 1,918,420; July 18.
Nelson, Frank A., Lakeland, Fla. Brake actuating mechanism. 1,918,776; July 18.
Nelson, Hans P., Grantwood, N. J. Polo mallet head. 1,918,485; July 18.
Nelson, Margaret D. (See Schall, H., and Nelson.)
Nenninger, Lester F., assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Milling machine. 1,919,150; July 18.
Nero, Arvid H., West Hartford, assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Tumbler switch. 1,919,119; July 18.
Neulander, Joseph, New York, N. Y. Inflatable elastic garment and the like. 1,919,032; July 18.
New Jersey Zinc Company, The. (See Bunce, E. H., and Ginder, assignors.)
Newson, Sidney C. (See Bersey, F. T., Hardy, and Newson.)
Newton, George F. (See Newton, John D., assignor.)
Newton, Herbert B., and T. C., Brookline, assignors to Auto Sickle Company, Boston Mass. Lawn mower. 1,918,349; July 18.
Newton, Thomas C. (See Newton, Herbert B. and T. C.)
New York Air Brake Company, The. (See Campbell, Charles A., assignor.)
New York Hamburger Gummi Waaren Comp. (See Beckmann, W., Deseniss, and Nielsen, assignors.)
Nielsen, Andreas. (See Beckmann, W., Deseniss, and Nielsen.)
Noble, Warren, Detroit, Mich. Vehicle suspension. 1,919,033; July 18.
Noblitt-Sparks Industries, Inc. (See Booth, Earl C., assignor.)
Nolcken, Woldemar G., London, England. Refrigeration. 1,918,820; July 18.
Norcross, Harry E., assignor to Warren Dungan, Philadelphia, Pa. Hickery-dickery-dock clock. 1,918,821; July 18.
Norma-Hoffman Bearings Corporation. (See Bott, George R., assignor.)
Norman, Nathaniel C., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signal transmission system. 1,918,822; July 18.
Norquist, Glenn H. (See Norquist, Ralph A. and G. H.)
Norquist, Ralph A., and G. H., Jamestown, N. Y. Window screen. 1,918,660; July 18.
North American Car Corporation. (See Kopsa, J., and Brigham, assignors.)
North, Edwin W., assignor to National Lock Co., Rockford, Ill. Lock. 1,918,979; July 18.
Norwich Research, Inc. (See Land, E. H., and Friedman, assignors.)
Novaseta A. G. Arbon. (See Bodmer, Albert, assignor.)
Nugent, William W., Chicago, Ill. Pressure filter. 1,918,980; July 18.
Nugent, William W., Chicago, Ill. Pressure filter. 1,919,034; July 18.
Nulsen, Marvin E. (See Smellie, D. G., White, and Nulsen.)
Nystrom, Martin, Chicago, Ill., assignor, by mesne assignments, to United Research Corporation, Long Island City, N. Y. Diaphragm. 1,918,421; July 18.
Nystrom, Martin, Chicago, Ill., assignor, by mesne assignments, to United Research Corporation, Long Island City, N. Y. Sound-reproducing device. 1,918,422; July 18.
Oberti, James M., San Francisco, Calif. Squeegee. 1,918,611; July 18.
O'Connor, Bernard A., and J. R. O'Sullivan, Kearney, N. J. Surgical instrument. 1,919,120; July 18.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Swiveled coupler connection. 1,918,862; July 18.
Oehmichen, Etienne E., Valentiguey, France. Arrangement of sustaining propellers in aerial navigation machines. 1,919,121; July 18.
Offen, Clifford G., Portland, Maine, assignor to Brown Company, Berlin, N. H. Magazine spooling mechanism. 1,918,285; July 18.
O'Heir, Octavian G. I., Lowell, Mass. Spring door and window check. 1,918,924; July 18.
Ohio Brass Company, The. (See Dippman, Fred R., assignor.)
Ohio Brass Company, The. (See Mead, George A., assignor.)
Older, Clifford, Wilmette, Ill. Expansion joint for pavement and the like. 1,918,554; July 18.
Oliver Farm Equipment Company. (See Altgelt, Herman E., assignor.)
Oliver, Ruth, New York, N. Y., assignor to Incorporated Paper Industries. Paper bottle. 1,918,925; July 18.
Onos, Abraham, Hawthorne, N. J. Article carrier. 1,918,486; July 18.
Oplinger, Floyd F. (See Wernlund, C. J., and Oplinger.)
Osann, Frederick, Company. (See McCann, Michael, assignor.)
Oskow, Louis, Brooklyn, assignor to Barlo Engineering Co. Inc., Long Island City, N. Y. Winding mechanism. 1,919,122; July 18.
Ostling, Gustaf A., and C. L. Gustafson, Chicago, Ill. Picture frame. Des. 90,335; July 18.
O'Sullivan, John R. (See O'Connor, B. A., and O'Sullivan.)
Otto, Albert T., & Sons. (See ter Meer, Gustav, assignor.)
Otto, Carl, Essen-Ruhr, Germany. Regenerative coke oven. 1,918,926; July 18.
Otto, Werner, Berlin, Germany. Drying apparatus. 1,918,927; July 18.
Owens-Illinois Glass Company. (See Hughes, Edward L., assignor.)
Owens-Illinois Glass Company. (See Lufkin, Garland, assignor.)
Owens-Illinois Glass Company. (See Soubier, Leonard D., assignor.)
Owens-Illinois Glass Company. (See Soubier, L. D., and Treece, assignors.)
Oyster, Ray C. (See Cope, F. T., and Oyster.)
P & M Company, The. (See Warr, Harold G., assignor.)
Pacific Car and Foundry Company. (See Langdon, Robert S., assignor.)
Pacific Pitting Machine Company. (See Ben, Joseph P., assignor.)
Pacific Pump Works et al. (See Weis, Arthur R., assignor.)
Pack, Herschel G., San Francisco, Calif. Attachment for vacuum tubes. 1,918,863; July 18.
Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
Packer Manufacturing Co., The. (See Webber, Calvin R., assignor.)
Packing Products Corporation. (See Koppelman, Morris, assignor.)
Page, Albert E., Brooklyn, assignor to Scott & Williams, Incorporated, New York, N. Y. Binding and cutting mechanism for knitting machines. 1,919,123; July 18.
Panhandle Refinining Company. (See Sims, W. F., and Cloer, assignors.)
Paniah, Edwin J., Bridgeport, Conn., assignor of one-half to W. B. Chapman, Jackson Heights, Long Island, N. Y. Sound reproducing mechanism. 1,918,777; July 18.
Panullo, Henry, Atlantic City, N. J. Sanitary appliance. 1,919,124; July 18.
Paris, Hugh P., Oakland, Calif., assignor to Paris Transit Mixer Company, Seattle, Wash. Transit concrete mixer. 1,919,073; July 18.
Paris Transit Mixer Company. (See Paris, Hugh P., assignor.)

Parker Rust-Proof Company. (See Jones, Elmer M., assignor.)
Parks & Woolson Machine Company. (See Richardson, Charles G., assignor.)
Pariato, Peter J., Elmhurst, and A. R. Krause, Woodhaven, N. Y. Lighting fixture. Des. 90,336; July 18.
Partridge, Edwin M., Hammond, Ind., assignor to National Aluminate Corporation, Chicago, Ill. Boiler compound. 1,918,555; July 18.
Patch, Richard H., Jenkintown, and J. M. Leaper, assignors to E. F. Houghton and Company, Philadelphia, Pa. Metal cutting oil. 1,919,125; July 18.
Paton, Roy W., assignor to The Perfect Circle Company, Hagerstown, Ind. Piston ring. 1,919,183; July 18.
Paul, William L., Berkeley, Calif., assignor to Deere & Company, Moline, Ill. Tillage implement. 1,918,028; July 18.
Pearmain, William J., assignor to The Twin Disc Clutch Company, Racine, Wis. Shoe clutch. 1,918,286; July 18.
Peltier, Frank D., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigerating unit. 1,918,981; July 18.
Penn, Albert, assignor to Penn Electric Switch Co., Des Moines, Iowa. Safety device for tire inflaters. 1,918,612; July 18.
Penn Electric Switch Co. (See Penn, Albert, assignor.)
Penn Metal Company. (See Baker, Herbert K., assignor.)
Pennsylvania Wire Glass Company. (See Shuman, Arno, assignor.)
Perfect Circle Company, The. (See Paton, Roy W., assignor.)
Perfection Stove Company. (See Keith, David F., assignor.)
Perkins, Charles E. (See Johnson, Walter.)
Perkins, John R., Washington, Conn. Air-vehicle indicating means. 1,919,126; July 18.
Perks, George W., assignor of one-half to Evalena L. Austin, Akron, Ohio. Composite friction material and making the same. 1,919,168; July 18.
Persinger, Narvy L., Glendale, Calif. Automobile cover apparatus. 1,918,423; July 18.
Persons, Laurence M., St. Louis, Mo. Thermostat. 1,918,778; July 18.
Peters, Frederick W., assignor to The Almetal Universal Joint Company, Cleveland, Ohio. Universal joint. 1,918,613; July 18.
Peters Patents Corporation. (See Pilblad, Sven A., assignor.)
Peyinghaus, Walter. (See Lehmann, Walter, assignor.)
Pfan, Friedrich, assignor to the Firm Carl Zeiss, Jena, Germany. Indicating device for measuring instruments. 1,918,556; July 18.
Pfaudler Co., The. (See Jacobsen, Jens N., assignor.)
Pfeiffer, Fred B., Akron, Ohio, assignor to Cupples Company, Manufacturers, St. Louis, Mo. Nut running apparatus. 1,918,557; July 18.
Pfeiffer, Richard O., South Orange, N. J. Lighting fixture. 1,918,823; July 18.
Pflueger, Albert, Miami, Fla. Mounting the skins of fish. 1,918,929; July 18.
Phelps Can Company. (See Phelps, Walter J., assignor.)
Phelps, Walter A., Madison, and A. M. Koerner, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Carrier telegraph interference suppressor. 1,919,035; July 18.
Phelps, Walter J., assignor to Phelps Can Company, Baltimore, Md. Method and machine for side seaming can bodies. 1,918,661; July 18.
Phelps, Walter J., assignor to Phelps Can Company, Baltimore, Md. Machine for side seaming can bodies. 1,918,662; July 18.
Phillips, Harley R., Oak Park, and H. J. Clarke, Chicago, Ill., assignors to Mojonnier Bros. Co. Material cutting and wrapping machine. 1,918,824; July 18.
Phillips, Ralph A., Torrance, Calif. Pipe unscrewing tool. 1,918,663; July 18.
Phister, Albert B., Fort Thomas, Ky., assignor to The Phister Manufacturing Company, Cincinnati, Ohio. Fire extinguisher. 1,918,930; July 18.
Phister Manufacturing Company, The. (See Phister, Albert B., assignor.)
Pickard, Greenleaf W., Newton Center, Mass., assignor, by mesne assignments, to General Electric Company. Extreme loading condenser. 1,918,825; July 18.
Pierce, James B., jr., Charleston, W. Va., assignor to Barium Reduction Corporation. Manufacture of hydrogen peroxide. 1,919,036; July 18.
Pieri, Joseph B., Glenns Ferry, Idaho. Doughnut turner. 1,918,287; July 18.
Pilblad, Sven A., assignor, by mesne assignments, to Peters Patents Corporation, Boston, Mass. Making finger rings. 1,918,487; July 18.
Pioneer Instrument Company. (See Gette, John O., jr., assignor.)
Plant, Hendricus, Wassenaar, Netherlands. Treatment of plants, parts of plants, and raw fibers. 1,918,558; July 18.
Plausics, Alexander, Bronx, assignor to The Western Union Telegraph Company, New York, N. Y. Drag conveyer discharge. 1,919,169; July 18.
Poeton, Lawrence, assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,918,982; July 18.
Poley, Morris, Larchmont, assignor to Bear Mill Manufacturing Company, Inc., New York, N. Y. Textile fabric. Des. 90,337; July 18.
Poniatoff, Alexander M., Philadelphia, Pa., assignor to General Electric Company. Electrical apparatus. 1,919,074; July 18.
Ponselle, Robert A., New York, N. Y. Vacuum cleaner. 1,918,713; July 18.
Pontow, Werner, Berlin-Wilmersdorf, W. Abendroth and Günther Schroeder, Berlin-Charlottenburg, Germany, and K. A. Mayr, New York, N. Y., assignors to Siemens-schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Fluid operated control device. 1,918,424; July 18.
Pool, William, Spondon, near Derby, England, assignor to Celanese Corporation of America. Loom having a stationary weft supply. 1,918,288; July 18.
Pratt, Henry, Company. (See Grimm, Carl W., assignor.)
Pratt & Whitney Company. (See Bachmann, A. B., and Krause, assignors.)
Pratt & Whitney Company. (See Shaw, John C., and R. D.)
Premier-Pabst Corporation. (See Frederiksen, Felix M., assignor.)
Prentice, George E., Berlin, Conn. Fastener. 1,918,779; July 18.
Price, Samuel J. T., Macon, Ga. Envelope feeding mechanism. 1,918,425; July 18.
Priest, Walter F., Arlington, Mass. Differential mechanism. 1,918,864; July 18.
Prince, Robert K., Westfield, assignor, by mesne assignments, to Vi-Foods Company, Boston, Mass. Vitamin concentrate and preparation. 1,918,983; July 18.
Prince-Smith, William, Keighley, England. Builder motion for ring, cap or flyer spinning, twisting, and analogous machines. 1,919,127; July 18.
Pruessner, George E., Chesterfield, Mo. Amusement apparatus. 1,918,559; July 18.
Purdy, Harley M., Wabash, Ind. Spring-pressed weather strip and its spring-pressed actuator. 1,918,865; July 18.
Pym, Arthur F., Beach Bluff, assignor to Sibley-Pym Corporation, Lynn, Mass. Winding machine. 1,918,714; July 18.
Pyroxylin Products Incorporated. (See Fawkes, Charles E., assignor.)
Quigley Company. (See Quigley, Wirt S., assignor.)
Quigley, Wirt S., New York, N. Y., assignor to Quigley Company, Inc. Cementitious filling for flanged joints and the like. 1,919,037; July 18.
Quinn, John F. (See St. Clair, B. W., and Quinn.)
Rackett, Gerald F., assignor to Association of Motion Picture Producers, Inc., Los Angeles, Calif. Apparatus for projecting motion pictures. 1,918,488; July 18.
Radio Corporation of America. (See Goldsmith, Alfred N., assignor.)
Radio Corporation of America. (See Roberts, Walter V., assignor.)
Radio Frequency Laboratories, Incorporated. (See Farnham, Paul O., assignor.)
Radnor, Jess C., New York, N. Y. Aircraft landing gear. 1,918,426; July 18.
Railroad Accessories Corporation. (See Lavarack, Frederick C., assignor.)
Rails Company, The. (See Kropp, William, assignor.)
Railway Utility Company. (See Hartwig, William G., assignor.)
Rand, Benjamin G., North Tonawanda, assignor to Remington Rand Inc., Buffalo, N. Y. Metallic desk. 1,918,780; July 18.
Randall Company, The. (See Dunn, Charles C., assignor.)
Randall, Walter H., Waterville, assignor, by mesne assignments, to Fidelity Trust Company, Portland, Maine. Sized pulp stock and product therefrom. 1,918,781; July 18.
Randall, Walter H., Waterville, assignor, by mesne assignments, to Fidelity Trust Company, Portland, Maine. Method of and apparatus for forming molded pulp articles. 1,918,782; July 18.
Rasmussen, Alvin C., assignor to The Insley Manufacturing Company, Indianapolis, Ind. Grubbing attachment for excavating machines. 1,919,075; July 18.
Rasmusson, Arthur W., Lead, S. Dak. Polish can or box. 1,918,664; July 18.
Read, David Y., assignor of one-fourth to J. P. Grandy, and one-fourth to H. H. Snelling, Washington, D. C. Typewriting machine. 1,918,665; July 18.
Redden, Chalmers R., Framingham, Mass. Claw hammer. 1,919,128; July 18.
Redding, Howard, Seattle, Wash. Vehicle jack. 1,918,783; July 18.
Reget, Howard C., Minneapolis, Minn. Decorative table device. 1,918,866; July 18.
Rehländer, Paul, Berlin-Charlottenburg, Germany. Making a photographic element for color photography. 1,918,560; July 18.
Reichel, Wladimir A., Brooklyn, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Temperature control means. 1,919,129; July 18.
Reid, James S., Shaker Heights, assignor to The Reid Products Company, Cleveland, Ohio. Glass run channel. 1,918,561; July 18.

Reid, James S., Shaker Heights, assignor to The Reid Products Company, Cleveland, Ohio. Glass run channel. 1,918,666; July 18.
Reid, James S., Shaker Heights, assignor to The Reid Products Company, Cleveland, Ohio. Channel. 1,919,130; July 18.
Reid Products Company, The. (See Reid, James S., assignor.)
Reifurth, Otto, Immigrath, and A. Möller, Recklinghausen, Germany. Rail-joint connection. 1,919,131; July 18.
Reis, Curt F., Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill. Magneto. 1,918,562; July 18.
Reiter, Daniel I., New York, N. Y. Upholstery pin. 1,919,038; July 18.
Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 1,918,289; July 18.
Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 1,919,170; July 18.
Remington Rand Inc. (See Rand, Benjamin G., assignor.)
Remotrole Corporation. (See Washington, B., and Aull.)
Renaux, Eugène P., Paris, and L. J. Renaux, Livry-Gargan, France. Controlling mechanism. 1,918,667; July 18.
Renaux, Lucien J. (See Renaux, E. P. and L. J.)
Renninger, William R., Diamond, Ohio. Cylinder gold separator. 1,918,489; July 18.
Reusser, Paul, Biel, Switzerland. Machine for grinding the edges of watch glasses. 1,918,668; July 18.
Rex Manufacturing Co. (See Hull, Robert W., assignor.)
Reymersholms Gamla Industri Aktiebolag. (See Wiberg, A. R., and Schön, assignors.)
Reynolds, Harry R. (See Searles, R. R., and Reynolds.)
Rhinelander Refrigerator Co. (See Maine, Vernon M.)
Rice, Allen E., Hermosa Beach, Calif., assignor to The National Supply Company, Toledo, Ohio. Water cooled brake rim. 1,918,500; July 18.
Rice, Joseph, assignor of one-half to Elevator Mfg. Company of America, Chicago, Ill. Movable platform construction. 1,918,427; July 18.
Richardson, Charles G., assignor to Parks & Woolson Machine Company, Springfield, Vt. Mechanism for unwinding and delivering continuous strips. 1,918,984; July 18.
Richardson Company, The. (See McKay, H. J., and Carlsen, assignors.)
Richmond-Chase Company. (See Johnson, Will R., assignor.)
Rike, Frederick F., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Gasoline pump and a valve therefor. 1,918,931; July 18.
Riley, Allan, Fillongley, near Coventry, England. Cleaning of rooms. 1,919,132; July 18.
Riley, Percy, Coventry, England. Suspension means for motor-vehicle engines or gear boxes. 1,918,490; July 18.
Ringland, George L., Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine. 1,918,867; July 18.
Ritchie, George A., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching device. 1,919,039; July 18.
Roadstrum, Victor N. (See Faber, William F., assignor.)
Roberts, Anna, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Beach sandal. Des. 90,338; July 18.
Roberts, Walter V. B., Princeton, N. J., assignor to Radio Corporation of America. Automatically controlled radioreceiver. 1,918,826; July 18.
Robinson, Sandford. (See Simpson, S., Smith, and Robinson.)
Robinson, Ward M., assignor to Mueller Brass Co., Port Huron, Mich. Making pipe fittings. 1,918,715; July 18.
Robson, John, Clareville, Caterham Valley, England, assignor to The Waterbury Tool Company, Waterbury, Conn. Fluid controlled mechanism. 1,918,985; July 18.
Rochester Folding Box Co., The. (See Bowersox, Wilber E., and Fancher, assignors.)
Rockbestos Products Corporation. (See Mau, E. A., and Hutchinson, assignors.)
Rockwell, Edward A., Long Island City, N. Y. Fuel pumping device for internal combustion engines. 1,919,040; July 18.
Rockwell, Willard F., Edgewood, Pa., assignor, by mesne assignments, to The Timken-Detroit Axle Company, Detroit, Mich. Vehicle drive. 1,918,932; July 18.
Rode, Frederich J., Chicago, Ill. Sheet metal drawing press. 1,918,784; July 18.
Rodenkirchen, William F. (See Dyer, D. H., and Rodenkirchen.)
Roe, William C., assignor to Telkor, Inc., Elyria, Ohio. Reed mechanism. 1,919,041; July 18.
Roedding, Gordon E., assignor to Grand Rapids, Brass Company, Grand Rapids, Mich. Latch. 1,918,563; July 18.
Rogan, John J., Elmhurst, Long Island, N. Y., assignor to Hygrade Sylvania Corporation, Salem, Mass. Electrooptical system. 1,918,827; July 18.
Rogers, Earl B., assignor to Mid-West Forging Company, Chicago, Ill. Stand. 1,918,933; July 18.
Rogers, Roland J. (See Bombard, J. A., and Rogers.)
Rolfs, Baltus, West Bend, Wis. Bill fold, cardcase and the like. 1,918,868; July 18.
Rolot, Georges, Beaune, France. Automatically opening paint tube. 1,919,133; July 18.
Ronzoni, Angelo, New York, N. Y. Dough product. Des. 90,339; July 18.
Roos, John F., Lewiston, Idaho. Foot holder. 1,918,350; July 18.
Rorabeck, Claude, Chicago Heights, Ill. Steering construction for tractor units. 1,918,564; July 18.
Roscoe, Edwin S., assignor to Yawman & Erbe Mfg. Co., Rochester, N. Y. Flush type guide rod. 1,918,428; July 18.
Rose, Albert L. (See Tarter, M. G., and Rose.)
Rosenberg, Solomon, Brooklyn, N. Y. Partition crate or box construction. 1,919,042; July 18.
Rosenwald, Emma. (See Rosenwald, Lucian, assignor.)
Rosenwald, Lucian, assignor to Emma Rosenwald, Kansas City, Mo. Flower holder. 1,918,785; July 18.
Ross, Oscar A., New York, N. Y., assignor to General Plate Company, Attleboro, Mass. Thermostatically controlled circuit controller. 1,918,491; July 18.
Rossman, Edwin F., assignor to Delco Products Corporation, Dayton, Ohio. Shock absorber. 1,918,565; July 18.
Roth, Albert, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Indicating mechanism. 1,919,043; July 18.
Ruben Condenser Company. (See Ruben, Samuel, assignor.)
Ruben, Samuel, assignor to Ruben Condenser Company, New Rochelle, N. Y. Electrical condenser. 1,918,716; July 18.
Ruben, Samuel, assignor to Ruben Condenser Company, New Rochelle, N. Y. Electrical condenser. 1,918,717; July 18.
Ruemelin, Richard, Milwaukee, Wis. System for cleaning, compressing, and drying air. 1,918,614; July 18.
Rump, Sigurd, Zurich, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electric switch. 1,918,869; July 18.
Russ Manufacturing Company, The. (See Schutt, Theodore H., assignor.)
Sabbah, Camil A., Schenectady, N. Y., assignor to General Electric Company. Electric valve converting apparatus. 1,918,870; July 18.
Sadleir, James R., Sacramento, Calif. Poultry waterer. 1,918,566; July 18.
St. Clair, Byron W., and J. F. Quinn, East Lynn, Mass., assignors to General Electric Company. Electrical instrument. 1,919,079; July 18.
St. Jean, Paul J., Thompsonville, Conn., and F. V. Grennor, Chicopee, Mass., assignors to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Needle selector mechanism for multiple needle looms. 1,919,151; July 18.
St. Louis & O'Fallon Coal Company. (See Mintner, Corban, assignor.)
Sakon, Charles. (See Beatty, William F., assignor.)
Samsel, Nobel E., Oakland, Calif. Dart. 1,918,718; July 18.
Sargent's, C. G., Sons Corporation. (See Furbush, Frank L., assignor.)
Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Booster for loose leaf ring books. 1,918,567; July 18.
Schaffner, Frederick W., Brooklyn, N. Y. Carburetor jet and control therefor. 1,919,134; July 18.
Schall, Herbert, and M. D. Nelson, Milwaukee, Wis. Cuttle-fish-bone holder. 1,918,429; July 18.
Scharlo, Augustus L., and E. P. Kleswetter; said Scharlo assignor to May E. Scharlo, Kitchener, Ontario, Canada. Display rack. 1,918,871; July 18.
Scharlo, May. (See Scharlo, A. L., assignor, and Kleswetter.)
Schell, Harry A., Philadelphia, Pa. Paste tube with measuring device and captive cap. 1,919,044; July 18.
Shiltz, Bernard P., assignor to The Foote-Burt Company, Cleveland, Ohio. Metal cutting machine. 1,918,290; July 18.
Schirmer, Max, assignor to Luftschiffbau Zeppelin Gesellschaft mit Beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Ventilating means on ships or aircraft. 1,918,568; July 18.
Schlaepfer, Hans A. (See Bornand, E., and Schlaepfer.)
Schlage Lock Co. (See Schlage, Walter R., assignor.)
Schlage, Walter R., assignor to Schlage Lock Co., San Francisco, Calif. Doorlock. 1,918,719; July 18.
Schlotmann, Josef, assignor to Firm: Gutehoffnungshütte Oberhausen Aktiengesellschaft, Oberhausen-Rheinland, Germany. Uniformly cooling hot blast and hot gas gate valve disks. 1,918,430; July 18.
Schmid, Werner, White Plains, assignor to William Wilhelm Co., Inc., New York, N. Y. Textile fabric or similar article. Des. 90,340; July 18.
Schmidt, Adolph T., assignor to Lindemann & Hoverson Company, Milwaukee, Wis. Temperature control for gas ranges. 1,918,872; July 18.

Schmidt, John G., assignor to E. F. Houghton and Company, Philadelphia, Pa. Reaction product of aryl thioureas and aldehydes and preparing same. 1,919,135; July 18.
Schmidt, Karl, Detroit, Mich., assignor, by mesne assignments, to Kelsey-Hayes Wheel Corporation. Collapsible rim. 1,919,171; July 18.
Schmidt, Richard, Dessau in Anhalt, Germany, assignor to Agfa Ansco Corporation, Binghamton, N. Y. Manufacture of material suitable for receiving writings by electrodecomposition. 1,918,492; July 18.
Schmitt, Adolf, assignor to Mechanische Spinnerei & Weberei Greven, Hermann Biederlack & Co., Greven, Germany. Textile cover or similar article of manufacture. Des. 90,341; July 18.
Schmitt, John A., assignor to The Universal Milking Machine Company, Waukesha, Wis. Milking apparatus. 1,919,172; July 18.
Schneider, Arthur. (See Urbanek, J., and Schneider.)
Schneider, Hermann. (See Straub, F., and Schneider.)
Schoenberger, W. J., Company, The. (See Kindl, Joseph V.)
Schoenfeld, Jacob, New York, N. Y. Locking device for portable receptacles. 1,919,076; July 18.
Schön, Per M. E. (See Wiberg, A. R., and Schön.)
Schoppel, Paul H., New York, N. Y. Bottle or the like. Des. 90,343; July 18.
Schoppel, Paul H., New York, N. Y. Bottle or the like. Des. 90,342; July 18.
Schörg, Carl. (See Fendt, E., and Schörg.)
Schram, Alexander L., Hillsboro, Ill. Fruit jar cap. 1,918,786; July 18.
Schroeder, Günther. (See Pontow, W., Abendroth, Schroeder, and Mayr.)
Schröter, Fritz, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Agrangement for broadcasting on waves of one meter and one decimeter. 1,918,291; July 18.
Schulman, Solomon, New York, N. Y. Mop wringer. 1,918,986; July 18.
Schultz, Fred, assignor to The Lockwood Manufacturing Company, Cincinnati, Ohio. Pan cover and frame. 1,918,493; July 18.
Schulz, Carl F., Brooklyn, N. Y. Invisible suspender attachment. 1,919,045; July 18.
Schulze, Max, Berlin-Steglitz, Germany. Hæmacytometer. 1,918,351; July 18.
Schutt, Theodore H., assignor to The Russ Manufacturing Company, Cleveland, Ohio. Dispensing pump. 1,919,173; July 18.
Schutte and Koerting Company. (See Muhleisen, Karl, assignor.)
Schwegler, Clarence C. (See Strosacker, C. J., and Schwegler.)
Schweizer, Jack, assignor to William Willheim Co., Inc., New York, N. Y. Textile fabric or similar article. Des. 90,344; July 18.
Schwemler, Frank J. (See Mosel, J. H., and Schwemler.)
Schwerin, Frank H., Bellevue, assignor to The Duff-Norton Manufacturing Company, Pittsburgh, Pa. Lifting jack. 1,918,934; July 18.
Scott & Williams, Incorporated. (See Page, Albert E., assignor.)
Scott, George T., Montclair, N. J., assignor to Fred Hotchner, Los Angeles, Calif. Sign. 1,918,615; July 18.
Scott Rossiter S., New York, N. Y. Garter pendant. 1,918,494; July 18.
Scovill Manufacturing Company. (See Colina, William, assignor.)
Scribner, Allison K., Portsmouth, Va., assignor to Virginia Smelting Company, Portland, Maine. Method of and composition for stripping dyes. 1,918,878; July 18.
Scriven, Edward O., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selective calling circuits. 1,919,046; July 18.
Seabold, Walter G., sr., Alton, Ill. Box or crate structure. 1,918,987; July 18.
Searles, Raymond R., and H. R. Reynolds, assignors to The Fafnir Bearing Company, New Britain, Conn. Dust seal. 1,918,988; July 18.
Seator, Robert J., assignor of one-half to H. Matthews, Battle Creek, Mich. Humidifier and air circulator. 1,918,481; July 18.
Seeley, Harold T., Yeadon, Pa., assignor to General Electric Company. Protective systems. 1,919,077; July 18.
Segal Founders Corporation. (See Segal, Hyman R., assignor.)
Segal, Hyman R., assignor to Segal Founders Corporation, New York, N. Y. Razor. 1,918,989; July 18.
Seidenberg, Edwin J., assignor to Libbey Cataphote Corporation, Toledo, Ohio. Mounting for autocollimators. 1,918,292; July 18.
Seiler, Ernest L., Stockton, Calif. Rungless ladder. 1,918,293; July 18.
Selden Company, The. (See Jaeger, Alphons O., assignor.)
Sellers, Orlin N., Evanston, Ill. Furnace. 1,918,935; July 18.
Servel, Inc. (See Anderson, Sven W. E., assignor.)
Servel, Inc. (See Dowell, Alvis Y., assignor.)
Servel, Inc. (See Peltier, Frank D., assignor.)
Seymour, George W., Cumberland, Md., assignor to Celanese Corporation of America. Cellulosic article and preparing the same. 1,918,294; July 18.
Shannahan, Eleanor, Easton, Md. Aquatic toy. 1,918,874; July 18.
Shapiro, Abraham, assignor to Universal Stamping & Mfg. Co., Chicago, Ill. Cinematograph for sound films. 1,918,569; July 18.
Shaw, John C. and R. D., Brooklyn, N. Y., assignors to Pratt & Whitney Company, Hartford, Conn. Electrical feed for planers. 1,918,990; July 18.
Shaw, Robert D. (See Shaw, John C. and R. D.)
Shearman, George F., assignor of one-half to J. D. Newton, Chicago, Ill. Fastening device. 1,918,936; July 18.
Shelton, Wilbur N., Wellesley, Mass. Coated sheet material presenting an inflated pebbled surface and making the same. 1,918,937; July 18.
Shelvoke & Drewry Limited. (See Drewry, James S., assignor.)
Sheras, Morris, Manistee, Mich. Designating device. 1,918,570; July 18.
Sheras, Morris, Manistee, Mich. Designating device. 1,918,571; July 18.
Shield Company, The. (See Fladger, Ralph H., assignor.)
Shonnard, Harold W. (See Valtier, Ralph P., assignor.)
Shuman, Arno, assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa. Glass roofing. 1,919,174; July 18.
Sibley-Pym Corporation. (See Plym, Arthur F., assignor.)
Siemens & Halske, Aktiengesellschaft. (See Eisenzapf, Karl, assignor.)
Siemens & Halske, Aktiengesellschaft. (See Müller, Paul, assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Meyer, August, assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Altenkirch, Edmund, assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Pontow, W., Abendroth, Schroeder, and Mayr, assignors.)
Siesel, S. M., Co. (See Hallquist, Stone, assignor.)
Silva, Manuel C., Los Banos, Calif. Road scraper. 1,918,669; July 18.
Simpson, Stephen, Exmouth, E. W. Smith, London, and S. Robinson, Liverpool, assignors to United Gas Industries Limited, London, England. Gas and similar meter. 1,918,875; July 18.
Sims, Willis F., and V. U. Cloer, assignors to Panhandle Refining Company, Wichita Falls, Tex. Apparatus for treating hydrocarbon vapors. 1,918,670; July 18.
Skroza, Thomas. (See Antich, Anton M., assignor.)
Smellie, Donald G., and H. B. White, Canton, Ohio, and M. E. Nulsen, St. Louis, Mo., assignors to The Hoover Company. Suction cleaner. 1,918,432; July 18.
Smith, Clifford R., Ashtabula, Ohio. Musical instrument. 1,918,295; July 18.
Smith, Elizabeth, St. Louis, Mo. Illuminating attachment for telephones. 1,918,876; July 18.
Smith, Ernest W. (See Simpson, S., Smith, and Robinson.)
Smith, Ethyl M., Buffalo, N. Y. Display holder. Des. 90,345; July 18.
Smith, John M. (See Forsyth, James L., assignor.)
Smith, Leo C., assignor to Smith System Heating Co., Minneapolis, Minn. Gas heater. 1,918,917; July 18.
Smith, Lloyd R., Milwaukee, Wis. Enameled metal articles and producing them. 1,919,126; July 18.
Smith, Maurice B., East Orange, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Terminal for drag conveyers. 1,919,175; July 18.
Smith System Heating Co. (See Smith, Leo C., assignor.)
Smith, William A., sr., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Blowing device. 1,918,787; July 18.
Smythe, Edwin H., Evanston, Ill. Signaling system. 1,918,433; July 18.
Snelling, Henry H., et al. (See Read, David Y., assignor.)
Snow, Harold R., and F. W. Sullivan, jr., Hammond, assignors to Standard Oil Company, Whiting, Ind. Producing low boiling point hydrocarbon oils from high boiling point hydrocarbon oils. 1,918,991; July 18.
Snow & Petrelli Manufacturing Company, The. (See Nabstedt, Arthur T., assignor.)
Snyder, Robert W., and M. Lammertse, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Brake. 1,918,572; July 18.
Societe Anonyme des Ateliers d'Aviation Louis Breguet. (See Breguet, Louis assignors.)
Societe Anonyme d'Ougree Marihaye. (See Amand, James E., assignor.)
Société de Recherches & d'Exploitations Petrolifères. (See Ackermann, Arthur, assignor.)
Society of Chemical Industry in Basle. (See Straub, F., and Sonelder, assignors.)
Soubier, Leonard D., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Machine for forming hollow glassware. 1,919,177; July 18.
Soubier, Leonard D., and J. H. Treece, assignors to Owens-Illinois Glass Company, Toledo, Ohio. Glassware forming machine. 1,919,176; July 18.
Spalding, John D., Los Angeles, Calif., assignor to The National Supply Company, Toledo, Ohio. Water cooled brake rim for draw works. 1,918,501; July 18.

Sparks, David E., Chicago, Ill. Tube tester. 1,918,495; July 18.
Spence, David, Forest Hills, assignor to Intercontinental Rubber Company, New York, N. Y. Rubber. 1,918,671; July 18.
Sperlich, Herman A., and J. H. Uhlig, Highland Park, Mich. Control for ironing machines. 1,918,502; July 18.
Spreen, Maxwell H., assignor to Kelvinator Corporation, Detroit, Mich. Control mechanism for mechanical refrigerating apparatus. 1,919,078; July 18.
Spring, Otto. (See Isham, R. M., and Spring.)
Square D Company. (See Eckenrode, R. R., and Bogardus, assignors.)
Stahl, Erich. (See von Girsewald, Conway B., and Stahl.)
Stamsvik, Alfred L., Cleveland, Ohio, assignor of one-sixth to Homer E. McMillen, Grove City, Pa. Heat exchange device. 1,918,434; July 18.
Standard Oil Company. (See Snow, H. R., and Sullivan, assignors.)
Standard Process Corporation. (See Ballard, Ernest S., assignor.)
Stange, Wm. J., Co. (See Jones, C. H., and Kretlow, assignors.)
Stanger, William D., Seaside Park, N. J., assignor to National Metal Edge Box Company, Philadelphia, Pa., a copartnership composed of E. Wolf, A. Wolf, H. Wolf, and E. Wolf. Metal box staying strip. 1,918,992; July 18.
Stanley Works, The. (See Higbee, Earl V., assignor.)
Stedman, Jacob C., Memphis, Tenn. Lunch house. Des. 90,346; July 18.
Steinmann, William, New York, N. Y. Statuette or similar article. Des. 90,347; July 18.
Steinmayer, Alwin G., Milwaukee, Wis., assignor, by mesne assignments, to Line Material Company. Indicating device. 1,918,296; July 18.
Stern Lace Co. Inc. (See Laneres, Jules, assignor.)
Stettner, Ludwig W., Oakland, assignor to Victor Welding Equipment Co., San Francisco, Calif. Gas pressure regulator. 1,918,720; July 18.
Stevens, Bernard W. (See Stevens, Frank W. and B. W.)
Stevens, Frank W., Newton, and B. W. Stevens, Needham, Mass. Window and weather strip for windows. 1,919,047; July 18.
Stewart, James S., assignor to Brenneis Manufacturing Company, Oxnard, Calif. Offset disk harrow. 1,919,080; July 18.
Strange, Edwin B., Gordonsville, Va. Carrier for egg cartons. 1,918,993; July 18.
Straub, Fritz, Basel, and H. Schneider, Riehen near Basel, assignors to the Firm Society of Chemical Industry in Basle, Basel, Switzerland. Azo-dyestuffs containing chromium and making same. 1,918,938; July 18.
Strong, Howard W. (See Harrison, C. F. R., and Strong.)
Strong, Leslie P., Lakewood, assignor to The Clark Manufacturing Company, Cleveland, Ohio. Steam trap. 1,918,435; July 18.
Strosacker, Charles J., and C. C. Schwegler, assignors to The Dow Chemical Company, Midland, Mich. Preparing antipyrine. 1,918,503; July 18.
Stubnitz, Maurice, assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Cushion seat for vehicles. 1,918,618; July 18.
Stuckert, Felix J., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Switch structure. 1,918,297; July 18.
Sturgis, La Verne C., Springfield, assignor to The Buckeye Incubator Manufacturing Company, Beachwood, Ohio. Egg turning mechanism for incubators. 1,918,939; July 18.
Stutz, John C., Kansas City, Mo. Golf cup. 1,918,994; July 18.
Sullivan Machinery Company. (See Clapp, Lewis J., assignor.)
Sullivan, Frederick W., jr. (See Snow, H. R., and Sullivan.)
Sulzer Frères Société Anonyme. (See Dinner, Heinrich, assignor.)
Sundback, Gideon, assignor to Hookless Fastener Company, Meadville, Pa. Separable fastener. 1,918,721; July 18.
Superior Metal Products Company. (See Demers, Isaié J. B., assignor.)
Susi, Michelangelo A., assignor to William Willheim Co., Inc., New York, N. Y. Textile fabric or similar article. Des. 90,348; July 18.
Suzuki, Junichi, assignor to Gunze Seishi Kabushiki Kwaisha, Kyoto-fu, Japan. Producing microscopic specimens for the observation of the surfaces of substances. 1,918,619; July 18.
Swain, Joseph G. (See Woodward, A. W., and Swain.)
Swan, Fillmore D. (See Dyer, H. T., Llebert, and Swan.)
Sweeney, Richard L., Cincinnati, Ohio. Ceiling or finishing plate structure for pipe systems. 1,918,722; July 18.
Sylvester, Louis G. (See Wells, C. B., and Sylvester.)
Syracuse Chilled Plow Company Inc. (See Cook, Curtiss L., assignor.)
Szabo, George A., Cleveland, Ohio. Gasoline gauge. 1,918,672; July 18.
Szatler, Louis, assignor of one-half to A. Czank, Hammond, Ind. Bank protector. 1,919,137; July 18.
Taliaferro, Edward E., Jackson, Tenn. Picker head. 1,918,620; July 18.
Tandy, Frank P. (See Etzenhouser, F. H., Murphy, and Tandy.)
Tarter, Mae G., and A. L. Rose, Palm Springs, Calif. Pottery and making the same. 1,918,496; July 18.
Tatum, J. Ralph, executor. (See Cutler, Henry H.)
Taylor, James Y., assignor of two-fifths to D. Coalson, Brownwood, Tex. Educational device. 1,918,298; July 18.
Taylor, Joseph H. (See Willson, E. L., and Taylor.)
Taylor, Robert S., Evansville, Ind., assignor to Electrolux Servel Corporation, New York, N. Y. Absorption refrigerating apparatus. 1,918,352; July 18.
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Leib, August, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schröter, Fritz, assignor.)
Telkor, Inc. (See Roe, William C., assignor.)
Templeton, Samuel M., assignor to Dayton Scale Company, Dayton, Ohio. Scale. 1,918,877; July 18.
Ten Pas, Fransiscus J., Alkmaar, Netherlands. Loud speaker. 1,918,995; July 18.
TerMeer, Gustav, Munich, Germany, assignor to Albert T. Otto & Sons, New York, N. Y. Discharging device for centrifugal machines. 1,918,436; July 18.
Texas Company, The. (See Mackay, Charles W.)
Thayer, Charles H., Ashland, Mass. Calculating device for use with three-phase wattmeters. 1,918,723; July 18.
Thermoid Rubber Company. (See Kent, Raymond W., assignor.)
Thomas, Henry, London, England, assignor to U. S. Slicing Machine Company, La Porte, Ind. Work holder for slicing machines. 1,918,673; July 18.
Thompson, James S., New Rochelle, N. Y., assignor to Firebar Corporation, Cleveland, Ohio. Grate construction. 1,918,497; July 18.
Thompson, James S., New Rochelle, N. Y., assignor to Firebar Corporation, Cleveland, Ohio. Grate bar. 1,918,498; July 18.
Thompson Products, Inc. (See Hufferd, G. H., and Graham, assignors.)
Thompson Products, Inc. (See Hufferd, G. H., Crawford, and Graham, assignors.)
Thomson, S. H., Manufacturing Company. (See Hummert, Robert H., assignor.)
Thorne, Carl Busch, Hawkesbury, Ontario, Canada. Separating apparatus. 1,918,621; July 18.
Thorner, Walther, Berlin, Germany. System for projecting motion pictures. 1,918,788; July 18.
Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Damping device for motor vehicles. 1,918,573; July 18.
Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Shock absorber. 1,918,574; July 18.
Tidy Products Corporation. (See Astrove, Joseph, assignor.)
Timken-Detroit Axle Company, The. (See Rockwell, Willard F., assignor.)
Titsworth, Fred L., assignor to A. J. Kirstin, Auburn, Ind. Air pump. 1,918,789; July 18.
Tobin, Kenneth J. (See Eklind, C. E., and Tobin.)
Todd, William, Leominster, Mass. Ball and socket joint. 1,919,178; July 18.
Torrance, Henry, New York, N. Y., assignor to The Carbondale Machine Co., Carbondale, Pa. Convertible swimming pool and skating rink. 1,918,437; July 18.
Treece, Jesse H. (See Soubier, L. D., and Treece.)
Trego, Frank H., assignor, by mesne assignments, to Ralph C. Coxhead Corporation, New York, N. Y. Variable feed mechanism for typewriter carriages. 1,918,299; July 18.
Trego, Frank H., assignor, by mesne assignments, to Ralph C. Coxhead Corporation, New York, N. Y. Means to vary the blow of the printing hammer. 1,918,300; July 18.
Trego, Frank H., assignor, by mesne assignments, to Ralph C. Coxhead Corporation, New York, N. Y. Paper guiding and gauging means. 1,918,301; July 18.
Trego, Frank H., assignor, by mesne assignments, to Ralph C. Coxhead Corporation, New York, N. Y. Frame extension for typewriting machines. 1,918,302; July 18.
Trego, Frank H., assignor, by mesne assignments, to Ralph C. Coxhead Corporation, New York, N. Y. Tabulator stop. 1,918,303; July 18.
Trego, Frank H., assignor, by mesne assignments, to R. C. Coxhead Corporation, New York, N. Y. Back spacing mechanism for typewriting machines. 1,918,304; July 18.
Triplett, Ray L., Bluffton, Ohio. Electrical measuring instrument. 1,918,940; July 18.
Triploil Manufacturing Company. (See Ireland, Lewis J., assignor.)
Tross, Ernest E., Youngstown, Ohio. Slot cover. 1,918,878; July 18.
Tschirky, Leopold, Rosemont, Pa. Protective lining for a furnace. 1,919,048; July 18.
Turnbull, Harry C., Toronto, Ontario, Canada. Elevator control switch. 1,918,504; July 18.
Twin Disc Clutch Company, The. (See Pearmain, William J., assignor.)
Typograph G. m. b. H. (See Blume, Wilhelm, assignor.)
Uebler, Bruno, Berlin, Germany. Producing nitrates. 1,918,941; July 18.

Uhlig, Johannes H. (See Sperlich, H. A., and Uhlig.)
Underwood Elliott Fisher Company. See Helmond, William F., assignor.)
Unger, Paul O., assignor to Wilson-Jones Company, Chicago, Ill. Locking mechanism for binder posts. 1,918,438; July 18.
Union Metal Products Company. (See Gilpin, Garth G., assignor.)
Union Switch & Signal Company, The. See Crago, Paul H., assignor.)
Union Switch & Signal Company, The. (See Wells, Wesley B., assignor.)
United Engineering & Foundry Company. (See Biggert, Florence C., jr., assignor.)
United Gas Industries, Limited. (See Simpson S., Smith, and Robinson, assignors.)
United Research Corporation. (See Nystrom, Martin, assignor.)
United Shoe Machinery Corporation. (See Chapin, Herbert L., assignor.)
United Shoe Machinery Corporation. See La Chapelle, F. N., and Eastman, assignors.)
U. S. Pressed Steel Company. (See Jerome, Horace M., assignor.)
United States Shellac Importers' Association, Inc. (See Gardner, William H., assignor.)
U. S. Slicing Machine Company. (See Thomas, Henry, assignor.)
U. S. Slicing Machine Company. (See Van Berkel, Cornelis F. M., assignor.)
U. S. Slicing Machine Company. (See Van Duyn, Adrianus, assignor.)
United States Steel Corporation. (See Abron, Robert H., assignor.)
Universal Hydraulic Corporation. See Kinzie, Phillip A., assignor.)
Universal Milking Machine Company. (See Schmitt, John A., assignor.)
Universal Oil Products Company. (See Angell, Charles H., assignor.)
Universal Stamping Mfg. Co. (See Shapiro, Abraham, assignor.)
Urbanek, Julius, Vienna, Austria, and A. Schneider, Dusseldorf, Germany. Hydraulic brake for drop hammers. 1,918,354; July 18.
Utley, Arthur B., Springfield, Mo. Sewer cleaner. 1,918,353; July 18.
Vale, Baldwin. (See Kormann, F. A., and Milliff, assignors.)
Valtier, Ralph P., New York, N. Y., assignor to H. W. Shonnard, Montclair, N. J. Moving stairway landing. 1,919,049; July 18.
Van Berkel, Cornelis, F. M., Wassenaar, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Sharpening device for slicing machine knives. 1,918,575; July 18.
Van der Meulen, Johannes H., Arnhem, Netherlands. Preparing iodides. 1,918,622; July 18.
Van Duyn, Adrianus, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Apparatus for sharpening the knives of slicing machines. 1,918,576; July 18.
Vanduzen, E. W., Company, The. (See Merrill, Sidney B., assignor.)
Van Schaack Bros. Chemical Works, Inc. (See Calvert, Robert, assignor.)
Vereinigte Deutsche Metallwerke A.-G. Zweigniederlassung Süddeutsche Metallindustrie. (See Metzger, Otto, assignor.)
Victor, Alexander F., Davenport, Iowa. Projecting motion pictures in color. 1,918,724. July 18.
Victor Welding Equipment Company. (See Stettner, Ludwig W., assignor.)
Victory Washer Co. (See Gilbert, Reginald L., assignor.)
Vi-Foods Company. (See Prince, Robert K., assignor.)
Virginia Smelting Company. (See Scribner, Allison K., assignor.)
Vogt, Clarence W., assignor to The Girdler Corporation, Louisville, Ky. Machine for feeding and shaping metallic tubes. 1,918,356; July 18.
Von Girsewald, Conway, Baron, and E. Stahl, Frankfort-on-the-Main, Germany, assignors to American Lurgi Corporation, New York, N. Y. Production of sulphates. 1,918,355; July 18.
Wagenhorst, James H., Detroit, Mich. Arc lighting apparatus. 1,918,725; July 18.
Wagner, August J., Grenloch, N. J. Lawn mower attachment. 1,918,357; July 18.
Wake, Ichiro, Kojimachi Ku, assignor to Goshikwaisha Ohno Seisakusho, Tokyo, Japan. Self-lubricating swivel bearing. 1,919,138; July 18.
Walker, Prescott H. (See Benner, R. C., Walker, and Wooddell.)
Wallenberg, Frank J., Tonawanda, assignor to Jiffy Battery Terminal Corporation, Buffalo, N. Y. Molding articles with inserts. 1,918,505; July 18.
Wallene, Frank O., Lakewood, Ohio. Air purge for water heaters; 1,918,942; July 18.
Walton, George W., London, England. Scanning device for television and the like. 1,918,358; July 18.
Walton, George W., London, England. Alternating current generator. 1,919,139; July 18.
Ward, Harry B., Springfield Gardens, N. Y. Holder for dies for punching stereotype printing plates. 1,918,943; July 18.
Warman, Lawrence K., assignor to Williams Tool Corporation, Erie, Pa. Chuck. 1,918,439; July 18.
Warner, Harry C., assignor of one-fourth to W. F. Hall, Kansas City, Mo. Electric cooker. 1,919,050; July 18.
Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,918,305; July 18.
Washington, Bowden, New York, and W. Aull, jr., Astoria, N. Y., assignors to Remotrole Corporation. Radioreceiver control. 1,918,674; July 18.
Waterbury Tool Company, The. (See Robson, John, assignor.)
Webber, Calvin R., assignor to The Packer Manufacturing Co., Inc., New York, N. Y. Bottle closure. 1,918,307; July 18.
Webber, Calvin R., Brooklyn, assignor to The Packer Manufacturing Co., Inc., New York, N. Y. Container. 1,918,308; July 18.
Weber Electric Company. (See Weber, John, assignor.)
Weber, John, assignor to Weber Electric Company, Schenectady, N. Y. Electric lamp socket. 1,918,726; July 18.
Weber, Robert, Drentwede, Bezirk Bremen, and F. Kinnebrock, Hamelin, Germany, said Kinnebrock assignor to said Weber. Production of clean paper pulp from old printed paper. 1,919,140; July 18.
Webster, William R., Bridgeport, Conn. Bread slicing appliance. 1,918,675; July 18.
Weeks, William C., Toronto, Ontario, Canada. Pad for musical wind instruments. 1,918,506; July 18.
Weger Max, Erkner-Berlin, assignor to Bakelite Gesellschaft mit beschrankter Haftung, Berlin, Germany. Preparing molding substances and molded articles from synthetic resins and fillers. 1,918,996; July 18.
Welland, Henry J., South Milwaukee, Wis., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company. Purification of arylamines. 1,918,997; July 18.
Weinhart, Howard W., Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Glow discharge lamp. 1,918,309; July 18.
Weir, G. & J., Limited. (See Hillier, Harold, assignor.)
Weirich, Clarence L., Westport, Conn. Carroting fur and compositions for carroting. 1,919,141; July 18.
Weis, Arthur R., assignor of one-half to Pacific Pump Works, and one-fourth to G. E. Bigelow, Huntington Park, Calif. Centrifugal impeller locking thrust eliminating means. 1,918,359; July 18.
Weisswasser, Peter, Detroit, Mich. Mop cabinet. 1,919,081; July 18.
Wells, Cyrus B. and L. G. Sylvester, Scranton, Pa. Screw driver attachment. 1,918,944; July 18.
Wells, Joel C., assignor to American Optical Company, Southbridge, Mass. Lens strap. 1,918,998; July 18.
Wells, Joel C., assignor to American Optical Company, Southbridge, Mass. Opthalmic lens. 1,918,999; July 18.
Wells, Wesley B., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Reflector button sign. 1,918,727; July 18.
Welton, Jack, New York, N. Y. Dry doorcheck. 1,918,879; July 18.
Wendt, Bruno, Dessau in Anhalt, Germany, assignor to Agfa Ansco Corporation, Binghamton, N. Y. Multicolored pictures. 1,918,623; July 18.
Wenger, Clement R., Leola, Pa. Agitator for washing machines. 1,918,945; July 18.
Wernlund, Christian J., Tottenville, N. Y., and F. F. Oplinger, Perth Amboy, N. J., assignors, by mesne assignments, to E. I. du Pont de Nemours and Company. Electrodeposition of tin. 1,919,000; July 18.
Western Electric Company. (See Alden, John L., assignor.)
Western Electric Company. (See Dunham, Carlton R., assignor.)
Western Electric Company. (See Kegl, Z. J., and Larsen, assignors.)
Western Railway Equipment Company. (See Campbell, S. H., Habenicht, and Pletzsch, assignors.)
Western Union Telegraph Company, The. (See Franklin, L. W., and Maus, assignors.)
Western Union Telegraph Company. (See Plausics, Alexander assignor.)
Western Union Telegraph Company, The. (See Smith, Maurice B., assignor.)
Westinghouse Air Brake Company. (See Kusebauch, Anton K., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eames, William F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Elberty, Robert S., jr., assignor.)
Westinghouse Electric and Manufacturing Company. (See Glenn, E. M., and Wiggins, assignors.)
Westinghouse Electric & Manufacturing Company. (See Kintzing, Reese T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Landon, Vernon D., assignor.)
Westinghouse Electric and Manufacturing Company. (See Little, D. G., and Delbaugh, assignors.)
Westinghouse Electric & Manufacturing Company. (See McShane, Phelan, assignor.)

Westinghouse Electric & Manufacturing Company. (See Roth, Albert, assignor.)
Westling, William, Minneapolis, Minn. Float for casting lines. 1,918,507; July 18.
Wetzel, Joseph H., Trenton, N. J. Aircraft. 1,919,142; July 18.
Wexberg, Harold M., Chicago, Ill. Menu card or similar article. Des. 90,349; July 18.
Wheary, George H., assignor to Wheary Trunk Company, Racine, Wis. Hand luggage. 1,918,310; July 18.
Wheary, George H., assignor to Wheary Trunk Company, Racine, Wis. Luggage. 1,919,082; July 18.
Wheary, George H., and B. M. Hamlin, assignors to Wheary Trunk Company. Racine, Wis. Hand luggage. 1,919,083; July 18.
Wheary Trunk Company. (See Wheary, George H., assignor.)
Wheary Trunk Company. (See Wheary, G. H., and Hamlin, assignors.)
Wheaton, Abram W., Maplewood, assignor to A. W. Wheaton Brass Works, Newark, N. J. Internal emergency shut-off valve for tanks and actuating means therefor. 1,918,728; July 18.
Wheaton, A. W., Brass Works. (See Wheaton, Abram W., assignor.)
Wheeler, Thomas S., and J. Mason, Northwich, England, assignors to Imperial Chemical Industries Limited. Production of chlorinated hydrocarbons. 1,918,624; July 18.
Wheeler, William L., Los Angeles, Calif. Water sled or surf board. 1,918,508; July 18.
White, Harry B., Canton, Ohio, assignor to The Hoover Company. Suction cleaner. 1,919,001; July 18.
White Eagle Oil and Refining Company. (See Marshall, E. C., and Burkhard, assignors.)
White, Fred C., Mason City, Iowa. Brush. 1,918,440; July 18.
White, Harry B. (See Smellie, D. G., White, and Nulsen.)
White, Harry B., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 1,918,360; July 18.
White, Jesse M., Philadelphia, Pa. Conduit fitting. 1,918,676; July 18.
White, John J., assignor to The Florsheim Shoe Co., Chicago, Ill. Moccasin. 1,918,946; July 18.
White, John W., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Hydraulically operated electric switch. 1,918,880; July 18.
Whitehead, William, Cumberland, Md., assignor to Celanese Corporation of America. Purification of cellulose esters. 1,919,002; July 18.
Whitmer, Lee A., Wilton Junction, Iowa. Feeding trough. 1,918,729; July 18.
Whitson, Robert M., La Grange, Ill. Sign. Des. 90,350; July 18.
Whyte, Frederic M., Tarrytown, N. Y. Ventilating and reflecting transom for passenger cars. 1,918,790; July 18.
Wiberg, Anders R., and Per M. E. Schön, assignors to Reymersholms Gamla Industri Aktiebolag, Halsinborg, Sweden. Manufacturing silicates with base exchanging properties, or so-called artificial zeolites. 1,918,361; July 18.
Wicinski, Adam. (See Witkiewicz, R., and Wicinski.)
Widmer, Stefan, assignor to Aktiengesellschaft Brown, Boveri, & Cie., Baden, Switzerland. Vapor rectifier apparatus. 1,918,577; July 18.
Wiesel, Rudolph, Liverpool, N. Y. Clamp. 1,919,003; July 18.
Wiggins, Albert M. (See Glenn, E. M., and Wiggins.)
Wilcox Drain Corporation. (See Wilcox, Paul M., assignor.)
Wilcox, Paul M., assignor to Wilcox Drain Corporation, La Porte, Ind. Roof drain. 1,918,509; July 18.
Wilcox, William D., Lawrence, Kans. Dissociating hydrocarbon gases and vapors to obtain finely divided carbon and a mixture of nitrogen and hydrogen in controlled proportions. 1,918,362; July 18.
Wilkins, Richard A., Beverly, assignor to Industrial Development Corporation, Boston, Mass. Burnishing machine. 1,919,152; July 18.
Willcox, Roderick H., assignor to Columbus Coated Fabrics Corporation, Columbus, Ohio. Table cover or similar article. Des. 90,351; July 18.
Willheim, William, Co. (See Gottesman, Joseph M., assignor.)
Willheim, William, Co. (See Kohut, Alexander, assignor.)
Willheim, William, Co. (See Lukas, Julia, assignor.)
Willheim, William, Co. (See Schmid, Werner, assignor.)
Willheim, William, Co. (See Schweizer, Jack, assignor.)
Willheim, William, Co. (See Susi, Michelangelo A., assignor.)
Williams, Ernest W., Golders Green, London, England. Secondary battery. 1,918,947; July 18.
Williams, Roy C., Wayne, Ohio. Valve puller. 1,918,578; July 18.
Williams, Samuel F., San Diego, Calif. Rod coupling. 1,918,306; July 18.
Williams Tool Corporation. (See Warman, Lawrence K., assignor.)
Williams, White & Co. (See Hintz, H. E., and Kline, assignors.)
Wills, Davis B., Washington, D. C. Electrically operated safety razor. 1,918,625; July 18.
Wilson, Elbert L., and J. H. Taylor, Athens, Tenn. Plow. 1,918,730; July 18.
Wilson, Fred D., Harvey, assignor to Austin Manufacturing Co., Chicago, Ill. Frame construction for road machines. 1,918,981; July 18.
Wilson, George M., Schenectady, N. Y. Boiler mud ring structure. 1,918,363; July 18.
Wilson-Jones Company. (See Buenger, Edward F., assignor.)
Wilson-Jones Company. (See Unger, Paul O., assignor.)
Wilt, Abram D., jr., New Canaan, Conn. Machine for manufacturing taps and other articles. 1,918,626; July 18.
Wiltsch, Hans, Berlin-Charlottenburg, Germany. Apparatus for removing water film from heat transmitting walls. 1,919,179; July 18.
Wine, William E., Toledo, Ohio. Railway car. 1,918,948; July 18.
Wingquist, Sven G., Skara, Sweden. Double-row roller bearing. 1,918,677; July 18.
Winnemore, Jullien F., Chevy Chase, Md. Combination receptacle for smokers' articles or similar device. Des. 90,352; July 18.
Winning, Robert K., Wauwatosa, assignor to Clum Manufacturing Company, Milwaukee, Wis. Automobile lighting. 1,918,579; July 18.
Winsor, Irwin B., Tulsa, Okla. Solenoid motor. 1,918,364; July 18.
Winthrop Chemical Company. (See Benda, Louis, assignor.)
Wire Novelty Manufacturing Company, The. (See Heather, George B., assignor.)
Wirz, Herman, jr., assignor of forty-nine one-hundredths to C. F. Hlavaty, Los Angeles, Calif. Automatic sewer flusher. 1,918,678; July 18.
Witherspoon, Burton H., Pittsburgh, Pa. Mixing device. 1,918,679; July 18.
Witkiewicz, Roman, and A. Wicinski, Lwow, Poland. Regulating crankless motor compressors. 1,918,882; July 18.
Wolfe, Albert, et al. (See Stanger, William D., assignor.)
Wolfe, Elias, et al. (See Stanger, William D., assignor.)
Wolfe, Howard, et al. (See Stanger, William D., assignor.)
Wolfe, Louis, et al. (See Stanger, William D., assignor.)
Wood, Wilfred R., London, England, assignor to International Combustion Engineering Corporation, New York, N. Y. Superheat control. 1,918,311; July 18.
Woodall-Duckham (1920) Limited. (See Duckham, Arthur M., assignor.)
Woodall, Thomas, Chicago, Ill. Piano pedal extension. 1,918,510; July 18.
Wooddell, Charles E. (See Benner, R. C., Walker, and Wooddell.)
Wooddell, Charles E., assignor to The Carborundum Company, Niagara Falls, N. Y. Boro-silicate bonded aluminous abrasive. 1,918,312; July 18.
Woods, Gorham W., assignor to Hughes Tool Company, Houston, Tex. Well strainer. 1,918,949; July 18.
Woodward, Alva W., and J. G. Swain, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Rim lock. 1,918,511; July 18.
Worrell, Dwight E. (See Arras, G., and Worrell.)
Worthington, Wayne H., Battle Creek, Mich., and L. G. Dueber, Mt. Washington, Mo., assignors, by mesne assignments, to Gleaner Harvester Corporation, Independence, Mo. Intermittent control device. 1,918,580; July 18.
Wright-Decoster, Inc. (See DuPuy, Richard R., assignor.)
Wyant, George D., Allison, assignof of one-half to D. D. Dodge, Uniontown, Pa. Hand protector. 1,919,084; July 18.
Yawman & Erbe Mfg. Co. (See Roscoe, Edwin S., assignor.)
Youness, John N., Columbus, Wis. Humidifier. 1,918,365; July 18.
Young, John. (See Drysdale, J. W. W., and Young.)
Zahn, Selma K., Albany, Calif., assignor, by mesne assignments, to Bank of America. Article, method, and machine for manufacture. 1,919,180; July 18.
Zay, Anthony, Cleveland, Ohio. Cap. 1,918,883; July 18.
Zellman, Rudolf, Radebeul-Dresden, assignor to Chemische Fabrik von Heyden, A. G., Dresden, Germany. Thorium dioxide sol and making the same. 1,918,884; July 18.
Zerbe, Lewis E. (See Faulkner, D. S., and Zerbe.)
Zeiss, Carl. (See Eppenstein, Otto, assignor.)
Zeiss, Carl, the Firm of. (See Hartinger, Hans, assignor.)
Zeiss, Carl, the Firm. (See König, Albert, assignor.)
Zeiss, Carl, the Firm. (See Pfau, Friedrich, assignor.)

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 18TH DAY OF JULY, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrading machine. H. L. Chapin. 1,918,321; July 18.
Abrading wheel and mounting therefor. F. J. Hohnhorst and F. J. Kroeger. 1,918,392; July 18.
Abrasive articles, Manufacture of. E. C. Benner, P. H. Walker, and C. E. Wooddell. 1,918,242; July 18.
Abrasive, Boro-silicate bonded aluminous. C. E. Wooddell. 1,918,312; July 18.
Acetylene generator. C. S. Milne. 1,918,479; July 18.
Acids, Recovery of tar. S. P. Miller. 1,918,283; July 18.
Adhesive and making same. L. Bradshaw. 1,919,158; July 18.
Adjustable valve. J. F. Culp. 1,918,959; July 18.
Aerial navigation machines, Arrangement of sustaining propellers in. E. E. Oehmichen. 1,919,121; July 18.
Aeroplane. L. C. Michaelsen. 1,918,656; July 18.
Aeroplane attitude indicator. J. O. Gette, jr. 1,918,904; July 18.
Aeroplane wing. R. W. Griswold. 1,918,536; July 18.
Aeroplanes, Shock absorbing strut for. R. L. Gruse. 1,918,699; July 18.
Agitator for washing machines. C. R. Wenger. 1,918,945; July 18.
Air brake. C. A. Campbell. 1,918,632; July 18.
Aircraft. V. J. Burnelli. 1,918,687–8; July 18.
Aircraft. J. H. Wetzel. 1,919,142; July 18.
Aircraft landing gear. J. C. Radnor. 1,918,426; July 18.
Air or the like, Conditioning. E. Altenkirch. 1,918,682; July 18.
Airplane wing. L. Colburn. 1,918,897; July 18.
Air pump. F. L. Titsworth. 1,918,789; July 18.
Air purge for water heaters. F. O. Wallene. 1,918,942; July 18.
Air, System for cleaning, compressing, and drying. R. Ruemelin. 1,918,614; July 18.
Air temperature regulator. F. Nallinger. 1,918,659; July 18.
Air-vehicle indicating means. J. R. Perkins. 1,919,126; July 18.
Air washer. R. R. Gentry. 1,918,531; July 18.
Alcohol composition, Denatured. R. Calvert. 1,919,145; July 18.
Alloy, Magnesium base. J. A. Gann. 1,918,260; July 18.
Alternating current generator. G. W. Walton. 1,919,139; July 18.
Alumina from silicates, Recovering. F. M. McClenahan. 1,918,923; July 18.
Aluminous materials, Treatment for. L. Bradley and E. P. McKeefe. 1,918,735; July 18.
Aluminum, Purifying. W. D. Keith. 1,918,339; July 18.
Ammonia and catalyst therefor, Oxidation of. U. B. Bray. 1,919,005; July 18.
Amplifier of alternating currents. W. H. T. Holden. 1,918,393; July 18.
Amusement apparatus. G. E. Pruessner. 1,918,559; July 18.
Anchor, Rail. H. G. Warr. 1,918,305; July 18.
Animal trap. F. Alvau. 1,918,582; July 18.
Antipyrine, Preparing. C. J. Strosacker and C. C. Schwegler. 1,918,503; July 18.
Antishimmy device. S. G. Baits. 1,918,445; July 18.
Applicator. H. B. Lermer. 1,918,706; July 18.
Applicator for polishing wheels and the like, Lubricant. J. H. Keating and J. W. Coates. 1,919,026; July 18.
Aquatic toy. E. Shannahan. 1,918,874; July 18.
Arc lighting apparatus. J. H. Wagenhorst. 1,918,725; July 18.
Arc welding apparatus. E. M. Glenn and A. M. Wiggins. 1,918,963; July 18.
Arch for boiler fireboxes. R. J. Needham. 1,918,420; July 18.
Ar-tetrahydronaphthol ethers, Manufacturing. E. Korten. 1,918,648; July 18.
Article carrier. A. Onos. 1,918,486; July 18.
Article, method, and machine for manufacture. S. K. Zahn. 1,919,180; July 18.
Articles and producing them, Enameled metal. L. R. Smith. 1,919,136; July 18.
Arylamines, Purification of. H. J. Weiland. 1,918,997; July 18.
Arylthioureas and aldehydes and preparing the same, Reaction products of. J. G. Schmidt. 1,919,135; July 18.
Atomizer. A. Klotzman. 1,919,027; July 18.
Audions, Eliminating effects of variations in currents applied to. G. B. Crouse. 1,918,899; July 18.
Auto lift and the like. T. A. Banning, jr. 1,919,156; July 18.
Automatic stop and check valve, Combined. C. M. House and C. J. Clutter. 1,918,544; July 18.
Automobile cover apparatus. N. L. Persinger. 1,918,423; July 18.

Automobile door handle. C. B. Lowe. 1,918,411; July 18.
Automobile jack. R. H. Dart. 1,918,591; July 18.
Automobile lighting. R. K. Winning. 1,918,579; July 18.
Automobile-radio control unit. E. C. Booth. Des. 90,306; July 18.
Automobile ventilator. J. A. Bombard and R. J. Rogers. 1,918,630; July 18.
Azo-dyestuffs containing chromium and making same. F. Straub and H. Schneider. 1,918,938; July 18.
Bag: *See*—
Golf bag. Laundry bag.
Hand bag.
Ball and socket joint. W. Todd. 1,919,178; July 18.
Ball joint. G. H. Hufferd and M. P. Graham. 1,918,395; July 18.
Ballast. Removing and cleaning. O. Neddermeyer. 1,918,348; July 18.
Bank protector. L. Szatler. 1,919,137; July 18.
Bar: *See*—
Grate bar.
Barbecue stand. W. H. Alston. Des. 90,303; July 18.
Barrier, Railroad crossing. J. Klein. 1,918,815; July 18.
Bathing suit. T. La Maida. 1,918,650; July 18.
Battery flash light. H. T. Kingsbury. Des. 90,320–1; July 18.
Battery, Secondary. E. T. Williams. 1,918,947; July 18.
Beach sandal. A. Roberts. Des. 90,338; July 18.
Bead structure for pneumatic tires. G. A. Handy. 1,918,539; July 18.
Bearing, Self-lubricating swivel. I. Wake. 1,919,138; July 18.
Beater construction. P. J. Fitzgerald. 1,919,101; July 18.
Beater for mixing devices, Separable. P. J. Fitzgerald. 1,919,102; July 18.
Beater for vacuum cleaners. H. T. Lang and H. A. Kroenlein. 1,919,067; July 18.
Bells, Construction of. S. B. Merrill. 1,918,551; July 18.
Belt, Power operated massage. C. C. Haynes. 1,919,062; July 18.
Benzoic acid and its derivatives, Purification of. A. O. Jaeger. 1,919,023; July 18.
Beveling square tire patches, Process and apparatus for. C. E. Dunlap. 1,918,838; July 18.
Beverages, Device for testing carbonated. A. F. Fredricksen. 1,918,258; July 18.
Bill fold, cardcase, and the like. B. Rolfs. 1,918,868; July 18.
Binder, Chain post. E. F. Buenger. 1,918,451; July 18.
Binder, Easel type loose-leaf. C. E. Morehouse. 1,918,773; July 18.
Binder, Magazine. L. Davio. 1,918,592; July 18.
Binding and cutting mechanism for knitting machines. A. E. Page. 1,919,123; July 18.
Blade and making same, Gin saw. R. W. McLean. 1,918,770; July 18.
Blanket, Printer's. W. C. Calvert. 1,918,517; July 18.
Blowing device. W. A. Smith, sr. 1,918,787; July 18.
Board: *See*—
Panel board.
Boat, Sail. S. Hoffman. 1,918,543; July 18.
Body of vehicles, Convertible. W. Hubbard. 1,919,063; July 18.
Body warming device, Electric. W. W. Lillard. 1,918,276; July 18.
Body with detachable containers, Vehicle. J. S. Drewry. 1,919,096; July 18.
Boiler: *See*—
Compound boiler. Steam boiler.
Locomotive boiler.
Boiler construction. H. M. Jerome. 1,919,164; July 18.
Boiler mud ring structure. G. M. Wilson. 1,918,363; July 18.
Book, Blank. W. R. Hotchkiss. 1,918,474; July 18.
Boom yarder. R. S. Langdon. 1,918,409; July 18.
Booster for loose leaf ring books. J. Schade. 1,918,567; July 18.
Bottle capping machine. H. A. Harder. 1,919,060; July 18.
Bottle or the like. P. H. Schoppel. Des. 90,342–3; July 18.
Bottle, Paper. R. Oliver. 1,918,925; July 18.
Bottom for upholstered chairs, box springs, automobile seats, couches, etc., Resilient. J. Kronheim. 1,918,760; July 18.
Bottom for upholstered furniture, Resilient. J. Kronheim. 1,918,761; July 18.

Bowling game apparatus. J. Cuchran. 1,919,094; July 18.
Box: *See*—
Folding box.
Box or crate structure. W. G. Seabold, sr. 1,918,987; July 18.
Box trap. F. J. Henry. 1,918,266; July 18.
Bracket and guide for rolling steel doors, Combined. W. G. Miller. 1,918,415; July 18.
Brake: *See*—
Air brake. Hydraulic brake.
Brake. R. W. Snyder and M. Lammertse. 1,918,572; July 18.
Brake actuating mechanism. F. A. Nelson. 1,918,776; July 18.
Braking apparatus, Eddy current track. A. Meyer. 1,918,859; July 18.
Bread slicing appliance. W. R. Webster. 1,918,675; July 18.
Breather valve for tanks. H. A. Jones. 1,918,337; July 18.
Broadcasting on waves of one meter and one decimeter, Arrangement. F. Schröter. 1,918 291; July 18.
Brush. J. F. Connor. 1,919,010; July 18.
Brush. J. F. Connor. 1,919,011; July 18.
Brush. F. C. White. 1,918,440; July 18.
Brush, Dental. E. L. Chott. 1,918,521; July 18.
Brushing and polishing machine. B. De Nagy. Des. 90,308; July 18.
Builder motion for ring, cap, or flyer, spinning, twisting, and analogous machines. W. Prince-Smith. 1,919,127; July 18.
Burner: *See*—
Wick burner.
Burner. W. Doble. 1,918,326; July 18.
Burnishing machine. R. A. Wilkins. 1 919,152; July 18.
Button loop. G. B. Heather. 1,918,334; July 18.
Buttons, Means for shanking. M. McCann. 1,918,281; July 18.
Buttons, Shanking. M. McCann. 1,918,280; July 18.
Cabinet, Refrigerator. R. W. Hull. 1,918,911; July 18.
Cabinet, Mop. P. Weiswasser. 1,919,081; July 18.
Cabinet, Vertical card filing. L. Lombardini. 1,918,765; July 18.
Cable and loading coil therefor, Artificial. R. M. C. Greenidge. 1,919,019; July 18.
Cable connecting and sealing means. B. E. Clarkson. 1 918,381; July 18.
Calculating device for use with three-phase wattmeters. C. H. Thayer. 1,918,723; July 18.
Calk for shoes, Antislipping. J. J. Masterson. 1,918,279; July 18.
Camera. A. G. Hillman. 1,919,021; July 18.
Camera case. J. Kinsy. 1,918,813; July 18.
Can bodies, Machine for side seaming. W. J. Phelps. 1,918,662; July 18.
Can bodies, Method and machine for side seaming. W. J. Phelps. 1,918,661; July 18.
Can filling machine. O. H. Hansen. 1,918,641; July 18.
Can positioning mechanism for liquid dispensing. C. H. Ayars. 1,919,155; July 18.
Cap. A. Zay. 1,918,883; July 18.
Cap, Fruit jar. A. L. Schram. 1 918,786; July 18.
Car, Railway. W. E. Wine. 1,918,948; July 18.
Carbon, Manufacture of decolorizing or activated. T. A. Goskar. 1,918,467; July 18.
Carbonaceous substances, Apparatus for activation of. A. Ackermann. 1,918,387; July 18.
Carburetor. H. H. Huber. 1,918,751; July 18.
Carburetor, Down draft. C. H. Kirby. 1,918,974; July 18.
Carburetor jet and control therefor. F. W. Schaffner. 1,919,134; July 18.
Carrier: *See*—
Article carrier.
Carrier for egg cartons. E. B. Strange. 1,918,993; July 18.
Carroting fur and compositions for carroting. C. L. Welrich. 1,919,141; July 18.
Cars, Loading and unloading. R. J. Needham. 1,918,419; July 18.
Case: *See*—
Camera case.
Casing head with blowout preventer. F. J. Hinderliter. 1,918,810; July 18.
Casting metals, Means for. E. Bornand and H. A. Schlaepfer. 1,918,734; July 18.
Cataloguing and projecting machine, Condensed. B. B. Harding. 1,918,468; July 18.
Catalyst and production thereof. U. B. Bray. 1,918,957; July 18.
Ceiling or finishing plate structure for pipe systems. R. L. Sweeney. 1,918,722; July 18.
Cellulose esters and product thereof, Preparing. C. Dreyfus. H. E. Martin, and L. N. Lee. 1,918,251; July 18.
Cellulose esters, Purification of. W. Whitehead. 1,919,002; July 18.
Cellulose, Producing alpha. J. J. de la Roza, sr. 1,918,250; July 18.
Cellulosic article and preparing the same. G. W. Seymour. 1,918,294; July 18.
Cementitious filling for flanged joints and the like. W. S. Quigley. 1,919,037; July 18.
Centrifugal impeller locking thrust eliminating means. A. R. Weis. 1,918,359; July 18.

Chair: *See*—
Convertible chair. Folding chair.
Chair. F. P. Hayward. Des. 90,317; July 18.
Chair. N. G. Horwitz. Des. 90,319; July 18.
Channel. J. S. Reid. 1,919,130; July 18.
Charge forming device. F. D. Funston. 1,918,530; July 18.
Cheese product and making the same. F. M. Frederiksen. 1,918,595; July 18.
Chenille texture, Device for cutting. A. Bechtold. 1,918,369; July 18.
Chlorhydrins, Process of manufacturing. R. M. Isham and O. Spring. 1,918,967; July 18.
Chloride, Preparation of methyl chloride and methylene chloride. W. Berndt and O. Ernst. 1,918,871; July 18.
Chromium plating. E. M. Jones. 1,918,605; July 18.
Chuck. F. J. Bechert. 1,918,955; July 18.
Chuck. L. K. Warman. 1,918,439; July 18.
Chuck, Air. J. C. Crowley. 1,918,689; July 18.
Cigar and cigarette lighter. F. C. Copeland. 1,919,159; July 18.
Cigarette and match pack. J. C. Leukhardt, jr. 1,918,476; July 18.
Cigarette dispensing device. F. R. Belt. 1,918,956; July 18.
Cigarette package holder and opener. D. Elliott. 1,919,099; July 18.
Cinematograph for sound films. A. Shapiro. 1,918,569; July 18.
Circuit breaker. T. E. Murray. 1,918,711; July 18.
Circuit controller, Thermostatically controlled. O. A. Ross. 1,918,491; July 18.
Circuit controlling device. K. Becker. 1,919,052; July 18.
Circuit, Electric control. H. G. Brinton. 1,919,053; July 18.
Circuits, Selective calling. E. O. Scriven. 1,919,046; July 18.
Clamp: *See*—
Rail clamp.
Clamp. R. Wiesel. 1,919,003; July 18.
Clamp and manufacturing same. J. M. Hargrave. 1,918,469; July 18.
Clamp for pulley belts. J. L. Forsyth. 1,918,257; July 18.
Clamping bracket. E. H. Holmes. 1,918,843; July 18.
Clasp, Collar. W. R. Larter. 1,918,275; July 18.
Cleaner: *See*—
Sewer cleaner. Vacuum cleaner.
Suction cleaner.
Cleaning of rooms. A. Riley. 1,919,132; July 18.
Clock, Hickery-dickery-dock. H. E. Norcross. 1,918,821; July 18.
Closet for sick beds. H. Bruch. 1,918,896; July 18.
Closure, Bottle. C. R. Webber. 1,918,307; July 18.
Coke, Manufacturing. V. L. Board. 1,919,157; July 18.
Coke ovens and the like, Operation of. S. P. Miller. 1,918,709; July 18.
Combination receptacle for smokers' articles or similar device. J. F. Winnemore. Des. 90,352; July 18.
Combination toilet instrument. G. L. Hawkins. Des. 90,316; July 18.
Combined clock case and dial. P. Lux. Des. 90,327; July 18.
Combined radiator, hood, fenders, and bumper for vehicles. M. Barclay. Des. 90,304; July 18.
Composite friction material and making same. G. W. Perks. 1,919,168; July 18.
Compound, Boiler. E. M. Partridge. 1,918,555; July 18.
Compressors, Means for regulating crankless motor. R. Witkiewics and A. Wicinski. 1,918,882; July 18.
Compressor mechanism. L. J. Clapp. 1,918,247; July 18.
Concentrator, Dry. I. C. Lightfoot. 1,918,843; July 18.
Concrete mixer, Transit. H. P. Paris. 1,919,073; July 18.
Condenser: *See*—
Electric condenser. Electrical condenser.
Condenser and steam generator, Mercury vapor. C. E. Lucke. 1,919,029; July 18.
Condenser, Extreme loading. G. W. Pickard. 1,918,825; July 18.
Connecting means. A. Alsaker. 1,918,441; July 18.
Contact device for resistors. A. H. Hardwick. 1,919,061; July 18.
Container: *See*—
Paper container.
Container. C. R. Webber. 1,918,308; July 18.
Control device, Intermittent. W. H. Worthington and L. G. Dueber. 1,918,580; July 18.
Control for absorption refrigeration apparatus, Automatic. D. F. Keith. 1,918,970; July 18.
Control for gas ranges, Temperature. A. T. Schmidt. 1,918,872; July 18.
Control for intermittent absorption refrigeration apparatus, Automatic. D. F. Keith. 1,918,969; July 18.
Control for ironing machines. H. A. Sperlich and J. H. Uhlig. 1,918,502; July 18.
Control for loud speakers, Tone. R. R. Du Puy. 1,918,839; July 18.
Control means for stored pressure medium containers, Discharge. D. Mapes. 1,919,149; July 18.
Control means, Temperature. W. A. Reichel. 1,919,129; July 18.

Control mechanism for mechanical refrigerating apparatus. M. H. Spreen. 1,919,078; July 18.
Control, Superheat. W. R. Wood. 1,918,311; July 18.
Control switch, Elevator. H. C. Turnbull. 1,918,504; July 18.
Control system, Elevator. W. F. Eames. 1,919,014; July 18.
Control system, Master. J. M. Barrett. 1,918,891; July 18.
Control system, Motor. R. T. Kintzing. 1,918,973; July 18.
Control system, Motor vehicle. J. J. Gardner. 1,918,465; July 18.
Control, Vibrating apparatus. G. F. Dodge. 1,918,456; July 18.
Controlling device for liquid distributors, Electrical. J. J. M. Gueux. 1,919,105; July 18.
Controlling mechanism. E. P. and L. J. Renaux. 1,918,667; July 18.
Controlling the vertical slide on double acting bolt presses, Device for. C. Hilgeland. 1,918,910; July 18.
Convertible chair. L. Gilch. 1,918,261; July 18.
Conveyer, Jigging. A. Andreas. 1,919,086; July 18.
Conveying mechanism. E. E. Hageline. 1,918,537; July 18.
Cooker, Electric. H. C. Warner. 1,919,050; July 18.
Cooler: *See*—
Water cooler.
Cooling hot blast and hot gas gate valve disks, Uniformly. J. Schlotmann. 1,918,430; July 18.
Cooling means for internal combustion engines. R. L. Hawkins. 1,918,471; July 18.
Cotton cleaner and feeder. S. D. Murray. 1,918,774; July 18.
Cotton treating machine. J. E. Mitchell. 1,918,610; July 18.
Couple suitable for use as a rectifier, etc., Polarized conductive. P. E. Edelman. 1,918,526; July 18.
Coupler connection, Swivel. J. F. O'Connor. 1,918,862; July 18.
Coupling: *See*—
Rod coupling. Train pipe coupling.
Cover: *See*—
Slot cover. Tire cover.
Cracking oil. J. C. Black. Re18,896; July 18.
Crate or box construction, Partition. S. Rosenberg. 1,919,042; July 18.
Cup: *See*—
Vacuum cup.
Current collector for toy locomotives. J. L. Bonanno. 1,918,795–6; July 18.
Cushion, Fluid. W. Doble. 1,918,325; July 18.
Cushion seat for vehicles. M. Stubnitz. 1,918,618; July 18.
Cushioning device. G. M. Cross. 1,918,322; July 18.
Cut-out. Automatic electrical. E. Adams. 1,918,732; July 18.
Cutter drill, Conical. H. W. Fletcher and R. C. Kuldell. 1,918,902; July 18.
Cutting and wrapping machine, Material. H. R. Phillips and H. J. Clarke. 1,918,824; July 18.
Cuttle-fish-bone holder. H. Schall and M. D. Nelson. 1,918,429; July 18.
Damping device for motor vehicles. M. Tibbetts. 1,918,573; July 18.
Dart. N. E. Samsel. 1,918,718; July 18.
Decorative table device. H. C. Reget. 1,918,866; July 18.
Designating device. M. Sheras. 1,918,570–1; July 18.
Desk, Metallic. B. G. Rand. 1,918,780; July 18.
Dialkylaminoarylphosphinous acids, Salts of. L. Benda. 1,918,628; July 18.
Diaphragm. M. Nystrom. 1,918,421; July 18.
Diathermic and röntgen apparatus. A. Helbig. 1,918,907; July 18.
Diathermic treatment by means of high frequency, Apparatus for. A. Esau. 1,918,386; July 18.
Dies for punching stereotype printing plates, Holder for. H. B. Ward. 1,918,943; July 18.
Differential mechanism. W. F. Priest. 1,918,864; July 18.
Discharge, Drag conveyer. A. Plausics. 1,919,169; July 18.
Discharging device for centrifugal machines. G. Ter-Meer. 1,918,436; July 18.
Disconnecting switch. A. B. de Giorgi. 1,918,741; July 18.
Disk harrow, Offset. J. S. Stewart. 1,919,060; July 18.
Disks and making the same, Friction. R. W. Kent. 1,919,111; July 18.
Dispensing pump. T. H. Schutt. 1,919,173; July 18.
Dispensing receptacle for paper bags. W. Eccardt. 1,918,460; July 18.
Display device. H. L. Myers. 1,918,712; July 18.
Display holder. E. M. Smith. Des. 90,345; July 18.
Display rack. E. C. Cordes. 1,918,634; July 18.
Display rack. A. L. Schario and E. P. Kleswetter. 1,918,871; July 18.
Display stand. J. Gore. 1,918,329; July 18.
Distances, Determining. K. Eisenzapf. 1,919,015; July 18.
Distributor for grading machines. W. R. Johnson. 1,918,398; July 18.
Dock, Dirigible. E. L. Bowles. 1,918,831; July 18.
Door, Car. C. B. Eklind and K. J. Tobin. 1,918,253; July 18.
Door, Car. F. J. Herter. 1,918,964; July 18.
Doorcheck, Dry. J. Welton. 1,918,879; July 18.
Door jamb and trim, Combined metal. J. S. Mills. 1,919,071; July 18.
Doorlock. W. R. Schlage. 1,918,719; July 18.
Door release mechanism, Automatic. M. Kirnbauer. 1,918,847; July 18.
Door, Vehicle. M. Lassinsky. 1,918,475; July 18.
Double faced sign. F. Hotchner. 1,918,616; July 18.
Double-row roller bearing. S. G. Wingquist. 1,918,677; July 18.
Dough blender. C. M. Bricker. 1,919,006; July 18.
Dough product. A. Ronzoni. Des. 90,339; July 18.
Doughnut turner. J. B. Pieri. 1,918,287; July 18.
Down draft plumber's furnace. W. J. Collison. 1,919,093; July 18.
Drain fitting. E. A. Beste. 1,918,515; July 18.
Drain, Roof. P. M. Wilcox. 1,918,509; July 18.
Drier, F. L. Furbush. 1,919,057; July 18.
Drive for the steering wheels of motor vehicles, Bevel. F. Köhl. 1,918,649; July 18.
Drying apparatus. W. Otto. 1,918,927; July 18.
Dyes, Composition for stripping. A. K. Scribner. 1,918,873; July 18.
Dyestuff derived from 1-8 naphthalic acid anhydride. W. Eckert. 1,918,461; July 18.
Dynamo-electric machine. J. F. Lincoln and E. E. Dreese. 1,918,763; July 18.
Dynamo-electric machine. G. L. Ringland. 1,918,867; July 18.
Eccentric and concentric turning apparatus, Combined. W. F. Groene and A. W. Aufderhar. 1,918,331; July 18.
Educational device. J. Y. Taylor. 1,918,298; July 18.
Egg beater. M. M. L. Burrell. 1,918,738; July 18.
Egg cleaning machine. P. S. Martin. 1,918,653; July 18.
Egg cutter. W. E. Foster. 1,918,463; July 18.
Egg turning mechanism for incubators. L. C. Sturgis. 1,918,939; July 18.
Electric connecter plug. H. D. Geyer. 1,918,533; July 18.
Electric devices, Manufacture of vapor. D. S. Bond. 1,918,244; July 18.
Electric heater for circulating fluids. E. Fendt and C. Schörg. 1,918,637; July 18.
Electric immersion heater for high temperatures. K. Bader. 1,918,314; July 18.
Electric lamp socket. J. Weber. 1,918,726; July 18.
Electric light. B. S. Floraday. 1,918,803; July 18.
Electric switch. W. B. Churcher. 1,918,798; July 18.
Electric switch. F. Farrell. 1,918,901; July 18.
Electric switch. G. J. Meuer. 1,918,282; July 18.
Electric switch. S. Rump. 1,918,869; July 18.
Electric switch and closing and opening means therefor. G. A. Burnham. 1,918,378; July 18.
Electric switch and means to delay the successive opening thereof. C. D. Ainsworth. 1,918,368; July 18.
Electric switch. Hydraulically operated. J. W. White. 1,918,880; July 18.
Electric switch mounting for vehicle spot lamps. R. H. Hummert. 1,918,845; July 18.
Electric valve converting apparatus. C. A. Sabbah. 1,918,870; July 18.
Electrical apparatus. A. M. Poniatoff. 1,919,074; July 18.
Electrical condenser. S. Ruben. 1,918,716; July 18.
Electrical condenser. S. Ruben. 1,918,717; July 18.
Electrical instruments. B. W. St. Clair and J. F. Quinn. 1,919 079; July 18.
Electrical measuring instrument. R. L. Triplett. 1,918,940; July 18.
Electrical motor. H. C. Engelhardt. 1,918,690; July 18.
Electrical resistance. J. C. Gabriel. 1,918,259; July 18.
Electrodecomposition, Manufacture of material suitable for receiving writings by. R. Schmidt. 1,918,492; July 18.
Electrodeposition of tin. C. J. Wernlund and F. F. Oplinger. 1,919,000; July 18.
Electrolytes, Purification of. H. Lang and W. Muller. 1,918 477; July 18.
Electrooptical system. J. J. Rogan. 1,918,827; July 18.
Emulsion treatments and agent therefor. H. Bertsch. 1,918,372; July 18.
Emulsions, Treating. L. Kirschbraun. 1,918,759; July 18.
Envelope feeding mechanism. S. J. T. Price. 1,918,425; July 18.
Evaporator. O. Engisch. 1,918,285; July 18.
Expanding tool. R. R. Greninger. 1,918,640; July 18.
Extinguishing, Flame. R. E. Gurrell. 1,918,808; July 18.
Extractor: *See*—
Juice extractor.
Eyeshade. B. Harpster. 1,918,264; July 18.
Fabric, Making embossed. E. E. George. 1,919,059; July 18.
Fabric, Making embossed coated. E. E. George. 1,919,058; July 18.
Fabric, Ornamented lining. L. Goebbel. 1,919,018; July 18.
Fabricating metal parts of magnesium or magnesium alloys. J. E. Hoy. 1,918,545; July 18.

Fastener: *See*—
Separable fastener.
Fastener. G. E. Prentice. 1,918,779; July 18.
Fastening device. G. F. Shearman. 1,918,936; July 18.
Fatty foodstuffs, Material for applying water soluble colors to. C. H. Jones and W. H. Kretlow. 1,919,025; July 18.
Faucet. H. D. Binks. Des. 90,305; July 18.
Feed-change mechanism for lathes. W. F. Groene. 1,918,332; July 18.
Feed for planers, Electrical. J. C. and R. D. Shaw. 1,918,990; July 18.
Feed mechanism. J. M. Brasington. 1,918,449; July 18.
Feed mechanism for typewriter carriages, Variable. F. H. Trego. 1,918,299; July 18.
Feed water temperature compensator. J. C. Albright and R. D. Junkins. 1,918,512; July 18.
Fence construction. F. C. Lindh. 1,918,607; July 18.
Fertiliser and making same, Based ammonium sulphate. J. W. and J. H. Dean. 1,918,454; July 18.
Fertiliser and making same, Basic phosphate. J. W. and J. H. Dean. 1,918,900; July 18.
Fibrous material, Method and apparatus for the digestion of. T. L. Dunbar and A. D. Merrill. 1,918,459; July 18.
Filter: *See*—
Leaf filter. Pressure filter.
Filtering apparatus, Water. U. L. Barnes. 1,918,446; July 18.
Finish removing machine. N. W. Mathey. 1,918,769; July 18.
Fire extinguisher. A. B. Phister. 1,918,930; July 18.
Fish, Mounting the skins of. A. Pfueger. 1,918,929; July 18.
Fishing rod. P. S. Bear. 1,918,583; July 18.
Fishing rod support. O. Gerline. 1,918,389; July 18.
Fishline reel. A. W. F. Guest. 1,919,104; July 18.
Fitting, Conduit. J. M. White. 1,918,876; July 18.
Flash light. A. Mitchell. 1,918,847; July 18.
Flast light, Pocket. L. Abbotts. 1,919,024; July 18.
Float for casting lines. W. Westling. 1,918,507; July 18.
Flow evener, Screen type. E. E. Berry. 1,918,514; July 18.
Flower holder. L. Rosenwald. 1,918,785; July 18.
Fluid, Apparatus for determining characteristics of a. Z. J. Kegl and H. M. Larsen. 1,918,270; July 18.
Fluid controlled mechanism. J. Robson. 1,918,985; July 18.
Fluid meter. G. A. Knaak. 1,918,841; July 18.
Fluid operated control device. W. Pontow, W. Abendroth, G. Schroeder, and K. A. Mayr. 1,918,424; July 18.
Fluid pressure regulator. G. A. Knaak. 1,918,840; July 18.
Fluid treating apparatus. J. N. Jacobsen. 1,918,753; July 18.
Flusher, Automatic sewer. H. Wirz, jr. 1,918,678; July 18.
Flying machine having revolving supporting surface. L. Breguet and R. Dornad. 1,919,089; July 18.
Folding box. L. K. Field. 1,919,100; July 18.
Folding chair. S. Horvath. 1,919,110; July 18.
Folding container or box. G. Ancira. 1,918,887; July 18.
Foot holder. J. F. Ross. 1,918,350; July 18.
Force feed lubricator. D. Millington. 1,919,118; July 18.
Forceps, Artery. J. B. Bacon. 1,918,889; July 18.
Form, Road paving. J. H. Mosel and F. J. Schwemler. 1,918,710; July 18.
Forms, Apparatus for producing printing. E. S. Ballard. 1,918,627; July 18.
Frame, Grading. B. Franklin, jr. 1,918,842; July 18.
Friction draft gear. C. J. Holland. 1,918,646; July 18.
Fruit halving machine. J. P. Bem. 1,918,830; July 18.
Fuel control for furnaces, Balanced. W. G. Hartwig. 1,918,265; July 18.
Fuel injection device for internal combustion engines. H. E. Dinner. 1,918,324; July 18.
Fumigating agent, Producing. B. R. Burgess. 1,918,589; July 18.
Furnace: *See*—
Down draft plumbers' furnace. Zinc furnace.
Furnace. F. T. Cope and R. C. Oyster 1,919,054; July 18.
Furnace. O. N. Sellers. 1,918,935; July 18.
Furnace, carbonizing chamber and retort, and the like. A. M. Duckham. 1,919,098; July 18.
Furniture, Convertible. P. Bellavia. 1,918,241; July 18.
Fuse and disconnect switch. W. A. Heinrich. 1,918,541; July 18.
Game. W. F. Beatty. 1,918,892; July 18.
Game. R. A. Hennings. 1,918,749; July 18.
Game device J. Hetherington. 1,918,472; July 18.
Garment and the like, Inflatable elastic. J. Neulander. 1,919,032; July 18.
Garment hangers, Manufacturing. W. I. Brown. 1,918,516; July 18.
Garter pendant. R. S. Scott. 1,918,494; July 18.
Gas, Apparatus for treating. A. M. Harkness. 1,918,966; July 18.
Gas heater. L. C. Smith. 1,918,617; July 18.
Gas holder of the piston closure type. R. Bergfeld. 1,918,894; July 18.
Gas holder seal heating system. C. I. Baker. 1,918,315; July 18.
Gas pressure regulator. L. W. Stettner. 1,918,720; July 18.
Gas regulator, House service. R. E. Joyce. 1,918,602; July 18.
Gas valve. J. V. Kindl. 1,918,758; July 18.
Gases, Reforming of natural. W. F. Faber. 1,918,254–5; July 18.
Gasification apparatus. W. B. Chapman. 1,918,739; July 18.
Gasket for train pipe conduits. J. M. Brill and M. A. Barber. 1,918,685; July 18.
Gasket, Sealing. J. N. Laycock. 1,918,478; July 18.
Gasoline gauge. G. A. Szabo. 1,918,672; July 18.
Gasoline pump and a valve therefor. F. F. Rike. 1,918,931; July 18.
Gate lock. F. Kitselman. 1,918,814; July 18.
Gauge: *See*—
Gasoline gauge.
Gear: *See*—
Aircraft landing gear. Reverse gear.
Generator, Steam and hot water. J. A. McNey. 1,918,414; July 18.
Glass run channel. J. S. Reid. 1,918,561; July 18.
Glass run channel. J. S. Reid. 1,918,666; July 18.
Glassware forming machine. L. D. Soubier and J. H. Treece. 1,919,176; July 18.
Glassware, Machine for forming hollow. E. L. Hughes. 1,919,162; July 18.
Glassware, Machine for forming hollow. L. D. Soubier. 1,919,177; July 18.
Glow discharge lamp. H. W. Weinhart. 1,918,309; July 18.
Goggle. N. M. Baker. 1,918,954; July 18.
Gold separator, Cylinder. W. R. Renninger. 1,918,489; July 18.
Golf bag. F. J. Blatz. 1,918,447; July 18.
Golf ball washer. G. G. Frater. 1,918,529; July 18.
Golf cup. J. C. Stutz. 1,918,994; July 18.
Grate bar. J. S. Thompson. 1,918,498; July 18.
Grate construction. J. S. Thompson. 1,918,497; July 18.
Grinder, Flexible shaft bench. A. B. Bachmann and W. Krause. 1,918,952; July 18.
Grinder, Valve. F. H. Eisenhouser, R. C. Murphy, and F. P. Tandy. 1,918,743; July 18.
Grinding machine. C. Booth. 1,919,144; July 18.
Grinding machine. G. W. Binns. 1,919,143; July 18.
Grinding machine. C. J. Anderson. 1,918,951; July 18.
Grinding machine, Gin rib. J. Behle. 1,918,584; July 18.
Grinding tool, Internal cylinder. E. Marx. 1,918,852; July 18.
Grubbing attachment for excavating machines. A. C. Rasmussen. 1,919,075; July 18.
Guide rod, Flush type. E. S. Roscoe. 1,918,428; July 18.
Guide, Window glass. E. W. M. Bailey. 1,918,444; July 18.
Guns, Power unit for individual lubricant. J. F. Carter. 1,918,833; July 18.
Hæmacytometer. M. Schulze. 1,918,351; July 18.
Hammer, Claw. C. R. Redden. 1,919,128; July 18.
Hand bag. W. C. Hiering. 1,918,703; July 18.
Hand mirror. L. Marder. Des. 90,329–31; July 18.
Hand protector. G. D. Wyant. 1,919,084; July 18.
Hand tool. J. R. Hoffman. 1,918,645; July 18.
Handle: *See*—
Automobile door handle.
Hank twisting machine. V. Cazzadori. 1,918,740; July 18.
Harmonica. B. Minevitch. Des. 90,334; July 18.
Heat controlling means for charge forming devices. H. M. Chambers. 1,918,380; July 18.
Heat exchange device. A. L. Stamsvik. 1,918,434; July 18.
Heat exchanger. G. T. Jacocks, S. J. Chute, and J. B. Forbes. 1,918,601; July 18.
Heater: *See*—
Gas heater. Windshield heater.
Heater lighter. F. A. Gauger and R. W. Johnson. 1,918,805; July 18.
Hides, Apparatus for drying and cleaning. P. Hertzsch. 1,919,009; July 18.
Hinge. J. T. Atwood. 1,918,513; July 18.
Hinging means for outdoor switches. W. A. Heinrich. 1,918,542; July 18.
Hitch. J. B. Hoffman. 1,918,391; July 18.
Hitch connection. C. L. Cook. 1,918,382; July 18.
Holder: *See*—
Cuttle-fish-bone holder. Razor blade holder.
Flower holder. Spool holder.
Foot holder.
Hollow bodies from cellulose and the like, Making. E. Czapek and E. Bauer. 1,918,383; July 18.
Horn structure. A. I. Abrahams. 1,918,366; July 18.
Hose reel and drier. V. Markkula. 1,918,768; July 18.
Hot air furnace construction. J. J. Cheviron. 1,919,008; July 18.
Humidifier. J. N. Youness. 1,918,365; July 18.
Humidifier and air circulator. R. J. Seator. 1,918,431; July 18.
Hydraulic brake for drop hammers. J. Urbanek and A. Schneider. 1,918,354; July 18.
Hydraulic press. H. J. McKay and P. J. Carlson. 1,919,070; July 18.

Hydrocarbon gases and vapors to obtain finely divided carbon and a mixture of nitrogen and hydrogen in controlled proportions, Dissociating. W. D. Wilcox. 1,918,362; July 18.
Hydrocarbon oils, Apparatus for the treatment of. E. C. Marshall and M. J. Burkhard. 1,918,278; July 18.
Hydrocarbon oils from high boiling point hydrocarbon oils, Producing low boiling point. H. R. Snow and F. W. Sullivan, jr. 1,918,991; July 18.
Hydrocarbon oils, Treatment of. C. W. Mackay. 1,918,766; July 18.
Hydrocarbons, Apparatus for condensing. J. C. Mahoney. 1,918,608; July 18.
Hydrocarbon vapors, Apparatus for treating. W. F. Sims and V. U. Cloer. 1,918,670; July 18.
Hydrocarbons, Production of chlorinated. T. S. Wheeler and J. Mason. 1,918,624; July 18.
Hydrogen peroxide, Manufacture of. J. B. Pierce, jr. 1,919,036; July 18.
Hydrogenation of solid carbonaceous material, Destructive. C. F. R. Harrison and H. W. Strong. 1,919,108; July 18.
Ignition composition. H. A. Lewis. 1,918,920; July 18.
Impregnating coarsely fibrous materials to be worked up into building elements, Apparatus for. K. Erdmann. 1,918,462; July 18.
Inclosed switch. H. J. Cook. 1,918,248; July 18.
Incubating and hatching eggs, Method and apparatus for. L. F. Biggins. 1,918,585; July 18.
Indexing means, Turret. G. E. Hallenbeck. 1,918,538; July 18.
Indicating device for measuring instruments. F. Pfau. 1,918,556; July 18.
Indicating mechanism. A. Roth. 1,919,043; July 18.
Ink product, Making. M. Baer. 1,918,829; July 18.
Instrument for measuring the curvature of the cornea. H. Hartinger. 1,918,540; July 18.
Instrument, Surgical. H. H. Harris. 1,918,700; July 18.
Instrument, Surgical. B. A. O'Connor and J. R. O'Sullivan. 1,919,120; July 18.
Insulating wire, Apparatus for. E. A. Mau and O. F. Hutchinson. 1,918,344; July 18.
Insulation compound. A. R. Kemp and J. H. Ingmanson. 1,918,971; July 18.
Insulator. A. P. Blood. 1,918,586; July 18.
Internal combustion engine. D. L. Covyeow. 1,918,898; July 18.
Internal combustion engine. O. H. Eriksen. 1,918,840; July 18.
Internal combustion engine. A. Moorhouse. 1,918,481; July 18.
Internal combustion engines, Admission of air to the induction pipes of. E. Isdahl. 1,918,913; July 18.
Internal emergency shut-off valve for tanks and actuating means therefor. A. W. Wheaton. 1,918,728; July 18.
Iodides, Preparing. J. H. van der Meulen. 1,918,622; July 18.
Iron, Electric. R. Fleming. 1,918,693; July 18.
Irrigating device. T. D. Allen. 1,918,681; July 18.
Jack: *See*—
Automobile jack. Relay jack.
Lifting jack. Vehicle jack.
Jewelry and manufacturing the same, Article of. G. de Gennaro. 1,919,095; July 18.
Joint: *See*—
Ball joint. Universal joint.
Oil stop electric cable joint.
Joint for pavement and the like, Expansion. C. Older. 1,918,554; July 18.
Joint, Forming a pipe. R. H. Mueller. 1,918,417; July 18.
Joint, Tie rod ball. G. H. Hufferd, F C Crawford, and M. P. Graham. 1,918,394; July 18.
Joist, beam, girder, and the like. K. W. McHose. 1,918,345; July 18.
Journal bearing for railway cars. S. H. Campbell, F. K. Habenicht, and F. H. Pietzsch. 1,918,379; July 18.
Juice extractor. E. H. Mitcham. 1,918,658; July 18.
Kit, Toilet article. S. Diskin. 1,919,012; July 18.
Knitting machine. R. H. Lawson. 1,918,762; July 18.
Lace. J. Laneres. Des. 90,324; July 18.
Ladder, Rungless. E. L. Seiler. 1,918,293; July 18.
Lamp base. F. J. Abel. Des. 90,302; July 18.
Lamp stand. G. A. Ley 1,919,114; July 18.
Lantern, Portable electric. W. C. Embury. 1,919,056; July 18.
Lasting machine. F. N. La Chapelle and F. C. Eastman. 1,918,274; July 18.
Latch. G. E. Roedding. 1918,563; July 18.
Latch, Expanding metal. H. K. Baker. 1,918,316; July 18.
Lathe center and bearing means therefor. G. R. Bott. 1,919,004; July 18.
Laundry bag. R. B. Baker. 1,918,793; July 18.
Lawn mower. H. B. and T. C. Newton. 1,918,349; July 18.
Lawn mower attachment. A. J. Wagner. 1,918,357; July 18.
Lead from tubes and other articles, Removing. C. L. Mantell. 1,918,817; July 18.
Leaf filter. E. A. Alliott. 1,919,085; July 18.
Lear, Annealing. P. L. Gear. 1,918,962; July 18.
Lear for annealing glassware. G. Lufkin. 1,919,167; July 18.
Lens, Ophthalmic. J. C. Wells. 1,918,999; July 18.
Lens strap. J. C. Wells. 1,918,998; July 18.
Lifting jack. F. H. Schwerin. 1,918,924; July 18.
Light: *See*—
Electric light.
Light signal. E. W. Moore. 1,918,480; July 18.
Lighting fixture. G. Arras and D. E. Worrell. 1,918,828; July 18.
Lighting fixture. S. R. Naysmith. 1,918,484; July 18.
Lighting fixture. P. J. Parlato and A. R. Krause. Des. 90,836; July 18.
Lighting fixture. R. O. Pfeiffer. 1,918,823; July 18.
Lighting fixture, Indirect. L. C. Doane. 1,918,455; July 18.
Lining for a furnace, Protective. L. Tschirky. 1,919,048; July 18.
Lining of metal bodies, Metallic. F. T. Bersey, E. A. Hardy, and S. C. Newson. 1,918,895; July 18.
Liquefied gases, Container for. C. W. P. Heylandt. 1,918,335; July 18.
Liquid level regulator. H. Hillier. 1,919,109; July 18.
Liquid treating apparatus. J. N. Jacobsen. 1,918,752; July 18.
Liquids, Apparatus for treating. J. N. Jacobsen. 1,918,914; July 18.
Lock: *See*—
Gate lock. Rim lock.
Nut lock.
Lock. A. Chillemi. 1 919,091; July 18.
Lock. E. W. North. 1,918,979; July 18.
Locker, Safety. A. L. Abbott and W. C. Miller. 1,918,885; July 18.
Locking device for portable receptacles. J. Schoenfeld. 1,919,076; July 18.
Locking mechanism for binder posts. P. O. Unger. 1,918,438; July 18.
Locomotive boiler construction. J. A. McGrew. 1,918,655; July 18.
Locomotive boiler, Pulverized fuel. W. Kleinow. 1,918,401; July 18.
Loom having a stationary weft supply. W. Pool. 1,918,288; July 18.
Loom, Needle. F. V. Grennor. 1,919,147; July 18.
Loud speaker. F. J. ten Pas. 1,918,995; July 18.
Lubricant. H. H. Dow. 1,918,593; July 18.
Lubricants, Processing. F. A. Kormann and J. A. Milliff. 1,918,408; July 18.
Lubricating device. A. G. Steinmayer. 1,918,296; July 18.
Lubricating means for axle bearings of vehicles. W. Lehmann. 1,919,118; July 18.
Lubricating system for vertical pumps. C. N. Benson. 1,918,733; July 18.
Lubricator: *See*—
Force feed lubricator. Steam lubricator.
Luggage. G. H. Wheary. 1,919,082; July 18.
Luggage, Hand. G. H. Wheary. 1,918,310; July 18.
Luggage, Hand. G. H. Wheary and B. M. Hamlin. 1,919,083; July 18.
Lunch house. J. C. Stedman. Des. 90,346; July 18.
Machine for grinding the edges of watch glasses. P. Reusser. 1,918,668; July 18.
Machine, Material mixing. A. W. Allen. 1,918,234; July 18.
Magazine spooling mechanism. C. G. Offen. 1,918,285; July 18.
Magneto. C. F. Reis. 1,918,562; July 18.
Mailing device. J. A. Falvey. 1,918,384; July 18.
Mandrel, Expanding. H. R. Crane. 1,918,522; July 18.
Mast, Mooring. H. T. Dyer and F. D. Swan. 1,918,523; July 18.
Materials, Uniting. W. Colina. 1,918,958; July 18.
Matrices for extruding metals. O. Metzger. 1,918,858; July 18.
Matrix-setting and type-line-casting machine. W. Blume. 1,918,629; July 18.
Mattress construction. M. Marsack. 1,918,412; July 18.
Mechanism for automatically selecting and severing the terminal threads of a stitched book or the like. O. Müller. 1,918,482; July 18.
Melter, Sulphur. E. E. Bragg. 1,918,684; July 18.
Menu card or similar article. H. M. Wexberg. Des. 90,349; July 18.
Mercury switch. P. S. Bear. 1,918,794; July 18.
Metal cutting machine. B. P. Shilts. 1,918,290; July 18.
Metallic artillery wheel. T. A. Davenport. Des. 90,307; July 18.
Meter: *See*—
Fluid meter.
Meter, Gas and similar. S. Simpson, E. W. Smith, and S. Robinson. 1,918,875; July 18.
Metering apparatus, Fuel. J. T. Lake. 1,918,606; July 18.
Microscopic specimens for the observation of the surfaces of substances, Producing. J. Suzuki. 1,918,619; July 18.
Milking apparatus. J. A. Schmitt. 1,919,172; July 18.
Mill: *See*—
Rolling mill.
Milling machine. L. F. Nenninger. 1,919,150; July 18.
Mirror attachment for motor vehicles. R. R. Fleischer. 1,918,802; July 18.
Mixing device. B. H. Witherspoon. 1,918,679; July 18.
Moccasin. J. J. White. 1,918,946; July 18.
Mohair, Moth-proof. L. W. Larson. 1,918,849; July 18.

Mold construction for piling. S. Hallquist. 1,918,333; July 18.
Molding articles with inserts. F. J. Wallenberg. 1,918,505; July 18.
Molding press. H. D. Geyer. 1,918,532; July 18.
Molding substances and molded articles from synthetic resins and fillers, Preparing. M. Weger. 1,918,996; July 18.
Motion pictures, Apparatus for projecting. G. F. Rackett. 1,918,488; July 18.
Motion pictures in color, Projecting. A. F. Victor. 1,918,724; July 18.
Motion pictures, System for projecting. W. Thorner. 1,918,788; July 18.
Motor: *See*—
Electrical motor. Solenoid motor.
Multispeed split phase motor. Synchronous motor.
Vacuum cleaner motor.
Mounting for autocollimators. E. J. Seidenberg. 1,918,292; July 18.
Moving pictures the appearance of relief, Device for giving. C. Maury and V. A. Houssin. 1,919,115; July 18.
Multispeed split phase motor. C. H. Dederick and W. R. Appleman. 1,918,328; July 18.
Musical instrument. C. R. Smith. 1,918,295; July 18.
Musical wind instruments, Pad for. W. C. Weeks. 1,918,506; July 18.
Needle selector mechanism for multiple needle looms. P. J. St. Jean and F. V. Grennor. 1,919,151; July 18.
Needle valve, Hydro-mechanically controlled. P. A. Kinsie. 1,919,112; July 18.
Nipples, Device for preventing collapse of nursing. W. A. Carstensen. 1,918,638; July 18.
Nitrates, Producing. B. Uebler. 1,918,941; July 18.
Nut lock. C. C. Harbridge. 1,918,263; July 18.
Nut running apparatus. F. B. Pfeiffer. 1,918,557; July 18.
Nuts and bridge washers on valve stems, Assembling. J. A. Fleischli and J. M. Kountsman. 1,918,528; July 18.
Oil, Artificial drying. G. W. Herbein. 1,918,599; July 18.
Oil, Metal cutting. R. H. Patch and J. M. Leaper. 1,919,125; July 18.
Oil stop electric cable joint. F. A. Brownell. 1,918,736; July 18.
Oil, Treatment of hydrocarbon. C. H. Angell. Re18,899; July 18.
Oils, Reclamation of crank case or used. L. J. Ireland. Re18,898; July 18.
Operating device for car couplers. G. G. Gilpin. 1,918,806; July 18.
Ophthalmic mounting. N. M. Baker. 1,918,953; July 18.
Ophthalmic mounting. L. Poeton. 1,918,982; July 18.
Optical system for cameras for photography or cinematography, particularly in color. A. G. Hillman. 1,919,022; July 18.
Optical systems for cameras for photography or cinematography, particularly in color. A. G. Hillman. 1,919,020; July 18.
Oven, Regenerative coke. C. Otto. 1,918,926; July 18.
Packer for casing heads. L. F. Baash, E. Burns, and G. B. Garrard. 1,918,442; July 18.
Packing for fragile articles. M. Koppelman. 1,919,028; July 18.
Packing pad. R. W. Burrows. 1,918,246; July 18.
Pad: *See*—
Packing pad.
Page holder, Book. P. Kobler. 1,918,547; July 18.
Paint or the like to shingles and so forth, Machine for applying. H. E. Gooch. 1,918,534; July 18.
Paint tube, Automatically opening. G. Rolot. 1,919,133; July 18.
Pan cover and frame. F. Schulze. 1,918,493; July 18.
Pan, Drip. C. P. Hulst. 1,918,912; July 18.
Panel board. R. R. Eckenrode and L. R. Bogardus. 1,918,525; July 18.
Panoramagram, Parallax. H. E. Ives. 1,918,705; July 18.
Paper and the like, Producing abrasive. C. Münch. 1,918,418; July 18.
Paper container. E. Huff. 1,918,811; July 18.
Paper guiding and gauging means. F. H. Trego. 1,918,301; July 18.
Paper, Machine for applying reenforcing eyelets to. J. F. Foster. 1,918,961; July 18.
Paper pulp from old printed paper, Production of clean. R. Weber, B. Bremen, and F. Kinnebrock. 1,919,140; July 18.
Paste tube with measuring device and captive cap. H. A. Schell. 1,919,044; July 18.
Pavement marker. P. P. Horni. 1,918,836; July 18.
Pedal attachment, Foot. H. Lambert. 1,918,918; July 18.
Pedal pad. H. Lambert. 1,918,919; July 18.
Pen, Fountain. L. H. Ashmore. 1,918,239; July 18.
Pen, Fountain. E. Hugetz. 1,918,644; July 18.
Pen, Fountain. T. Kovacs. 1,918,404; July 18.
Pencil, Magazine. W. and V. Kobler. 1,918,916; July 18.
Phonograph reproducer. J. H. King. 1,918,972; July 18.
Photo-electric system. A. S. Fitz Gerald. 1,919,182; July 18.
Photographic element for color photography, Making a. P. Rehländer. 1,918,560; July 18.
Photographic printing, Mechanism for. F. M. Mills. 1,919,030; July 18.
Piano pedal extension. T. Woodall. 1,918,510; July 18.
Picker head. E. E. Taliaferro. 1,918,620; July 18.
Picture frame. G. A. Ostling and C. L. Gustafson. Des. 90,335; July 18.
Pictures, Multicolored. B. Wendt. 1,918,628; July 18.
Piezo-electric crystals. W. A. Marrison. 1,918,976; July 18.
Pilot lamp arrangement for multiplex telegraph printers. L. W. Franklin and F. J. Maus. 1,919,161; July 18.
Pipe fittings, Making. W. M. Robinson. 1,918,715; July 18.
Pipes and the like, Apparatus for orienting suspended. R. P. McLaughlin. 1,918,550; July 18.
Piston ring. J. Mellor. 1,918,707; July 18.
Piston ring. R. W. Paton. 1,919,183; July 18.
Plane. E. V. Higbee. 1,918,750; July 18.
Plant for manufacturing chlorination products of caoutchouc. W. Beckmann, M. Deseniss, and A. Nielsen. 1,918,370; July 18.
Planter and cultivator, Combination. H. E. Altgelt. 1,918,950; July 18.
Plants, parts of plants, and raw fibers, Treatment of. H. Plant. 1,918,558; July 18.
Plaster materials, Means for applying. H. A. Conley. 1,918,799; July 18.
Platen lifting device for calculating machines, Foot operated. L. Moussier. 1,918,416; July 18.
Platform construction, Movable. J. Rice. 1,918,427; July 18.
Playhouse, Collapsible. W. E. Bowersock and H. M. Fancher. 1,918,375; July 18.
Plow. E. L. Willson and J. H. Taylor. 1,918,730; July 18.
Plow, Snow. E. B. Meyer. 1,918,771; July 18.
Plumb and level. S. Hamernick. 1,919,106; July 18.
Plunger pump. C. Lakin-Smith. 1,918,408; July 18.
Poke, Animal. J. Jensen. 1,918,647; July 18.
Polarizing refractory bodies. E. H. Land and J. S. Friedman. 1,918,848; July 18.
Police signal system. G. F. C. Bauer. 1,918,240; July 18.
Polish can or box. A. W. Rasmusson. 1,918,664; July 18.
Polo mallet head. H. P. Nelson. 1,918,485; July 18.
Porous body. H. Beckmann. 1,918,893; July 18.
Portable electric generator. R. M. Heintz. Des. 90,318; July 18.
Potter and making same. M. G. Tarter and A. L. Rose. 1,918,496; July 18.
Poultry waterer. J. R. Sadleir. 1,918,566; July 18.
Precipitating liquids, Preparation of neutral or alkaline. A. Bodmer. 1,918,374; July 18.
Press: *See*—
Hydraulic press.
Pressure filter. W. W. Nugent. 1,918,980; July 18.
Pressure filter. W. W. Nugent. 1,919,034; July 18.
Printing hammer, Means to vary the blow of. F. H. Trego. 1,918,300; July 18.
Printing machine. G. C. Bauer. 1 919,051; July 18.
Propulsion means, Reaction. C. Marguglio. 1,918,277; July 18.
Protective apparatus for electric systems, Supervision of. P. Kannengiesser. 1,919,066; July 18.
Protective arrangement for sectionalized electric power circuits. H. W. Clothier, B. H. Leeson, and H. Leben. 1,919,092; July 18.
Protective system. H. T. Seeley. 1,919,077; July 18.
Protector: *See*—
Bank protector. Hand protector.
Puller, Valve. R. C. Williams. 1,918,578; July 18.
Pulp articles, Method of and apparatus for forming molded. W. H. Randall. 1,918,782; July 18.
Pulp stock and product therefrom, Sized. W. H. Randall. 1,918,781; July 18.
Pump: *See*—
Air pump. Rotary pump.
Dispensing pump. Syrup pump.
Plunger pump.
Pumping device for internal combustion engines, Fuel. E. A. Rockwell. 1,919,040; July 18.
Puzzle. W. Johnson. 1,918,754; July 18.
Quilter for sewing machines. V. Heck. 1,918,643; July 18.
Rack: *See*—
Display rack.
Racket, Tennis. R. B. Munday. 1,919,072; July 18.
Radio amplifier. V. D. Landon. 1,918,975; July 18.
Radio demonstration apparatus. P. H. Klopsteg. 1,918,402; July 18.
Radio direction finder. A. Leib. 1,918,850; July 18.
Radioreceiver, Automatically controlled. W. V. Roberts. 1,918,826; July 18.
Radioreceiver control. B. Washington and W. Aull, jr. 1,918,674; July 18.
Radioreceiver, Remotely controlled. W. Aull, jr. 1,918,683; July 18.
Radio receiving sets, Remote control systems for. E. H. Merritt. 1,918,857; July 18.
Radio receiving system. F. P. Andrews. 1,918,238; July 18.
Radio receiving system. P. O. Farnham. 1,919,160; July 18.
Radio signaling means. D. G. Little and N. C. Deibaugh. Re18,895; July 18.
Rail and flange oiler. W. Kropp. 1,918,406; July 18.

Rail clamp. C. W. Grimm. 1,918,905; July 18.
Rail-joint connection. O. Reifurth and A. Moller. 1,919,131; July 18.
Railway rails, Device for handling. J. E. Busby. 1,919,090; July 18.
Razor. H. R. Segal. 1,918,989; July 18.
Razor and hair cutter, Safety. M. J. Duffy. 1,918,636; July 18.
Razor blade holder. W. D. Hinchey. 1,918,704; July 18.
Razor, Electrically operated safety. D. B. Wills. 1,918,625; July 18.
Razor, Safety. F. W. Merrick. 1,918,856; July 18.
Reamer, Cylinder. E. A. Hall. 1,918,642; July 18.
Receiver apparatus for wireless communication. P. Müller. 1,918,819; July 18.
Receptacle. A. Fazekas. 1,918,744; July 18.
Recording mechanism, Flow. R. E. Ferguson. 1,918,388; July 18.
Rectifier apparatus, Vapor. S. Widmer. 1,918,577; July 18.
Rectifier control system, Electric current. H. Keller. 1,918,757; July 18.
Rectifying device for range finders. O. Eppenstein. 1,918,527; July 18.
Reed mechanism. W. C. Roe. 1,919,041; July 18.
Reel: *See*—
Fishline reel.
Reel for electric cord. F. H. Millar. 1,918,657; July 18.
Reflector button sign. W. B. Wells. 1,918,727; July 18.
Refrigerating apparatus. E. D. Misner. 1,918,818; July 18.
Refrigerating apparatus, Absorption. R. S. Taylor. 1,918,352; July 18.
Refrigeration. W. G. Nolcken. 1,918,820; July 18.
Refrigeration. P. Köhler. 1,918,342; July 18.
Refrigerator unit. F. D. Peltier. 1,918,981; July 18.
Refuse matter, Disposing. J. E. Greenawalt. 1,918,535; July 18.
Register, Fare. J. M. Johnson. 1,918,915; July 18.
Regulator: *See*—
Fluid pressure regulator. Liquid level regulator.
Gas pressure regulator.
Relay, Field failure protective. P. McShane. 1,918,978; July 18.
Relay, Polarized. W. H. Hoppe. 1,918,473; July 18.
Relay rack. F. C. Lavarack. 1,919,166; July 18.
Resilient container and sealing it. B. C. Eberhard. 1,918,524; July 18.
Resinous composition and preparing the same. E. H. Jackson and H. J. Cameron. 1,919,163; July 18.
Resistor rod, Electrical. R. C. Benner and H. N. Baumann, jr. 1,918,317; July 18.
Respirator, Artificial. B. O. Johnson. 1,918,546; July 18.
Reverse gear. A. T. Nabstedt. 1,917,775; July 18.
Rim, Collapsible. K. Schmidt. 1,919,171; July 18.
Rim for draw works, Water cooled brake. J. D. Spalding. 1,918,501; July 18.
Rim lock. A. W. Woodward and J. G. Swain. 1,918,511; July 18.
Rim, Water cooled brake. A. E. Rice. 1,918,500; July 18.
Ring: *See*—
Piston ring.
Ring for spinning and doubling frames. C. Hofmann. 1,918,644; July 18.
Rings, Making finger. S. A. Pilblad. 1,918,487; July 18.
Road machines, Frame construction for. F. D. Wilson. 1,918,881; July 18.
Robe, Infant's. J. Astrove. 1,919,154; July 18.
Rod: *See*—
Fishing rod.
Rod coupling. S. F. Williams. 1,918,306; July 18.
Rolling mill. R. M. Keeney and J. D. Ferm. 1,918,968; July 18.
Roofing. H. L. Guy. 1,919,148; July 18.
Roofing, Glass. A. Shuman. 1,919,174; July 18.
Rose. R. Diener. Pl. Pt. 70; July 18.
Rotary pump, Electrically-driven. J. W. W. Drysdale and J. Young. 1,919,097; July 18.
Rubber. D. Spence. 1,918,671; July 18.
Rug. H. C. La Couture. Des. 90,323; July 18.
Safety device for containers for explosives, particularly explosive gases. H. Grohmann. 1,918,906; July 18.
Safety device for tire inflators. A. Penn. 1,918,612; July 18.
Safety supporting means for brake beams. S. A. Crone. 1,918,835; July 18.
Salts, Apparatus for the decomposition of complex hydrofluoric. M. Buchner. 1,918,377; July 18.
Sand-blasting intaglio designs in stone and the like, Method of and apparatus for. T. Jellow. 1,918,269; July 18.
Sanitary appliance. H. Panullo. 1,919,124; July 18.
Scaffolding. H. S. Geer. 1,919,016; July 18.
Scale. S. Templeton. 1,918,877; July 18.
Scraper, Road. M. C. Silva. 1,918,669; July 18.
Screw driver attachment. C. B. Wells and L. G. Sylvester. 1,918,944; July 18.
Screws, Manufacturing. C. O. J. Montelius. 1,918,861; July 18.
Seal, Dust. R. R. Searles and H. R. Reynolds. 1,918,988; July 18.
Seal for vertical coking retort, Closure. C. Mintner. 1,918,860; July 18.
Sealer, Fruit jar. M. Lippens. 1,918,921; July 18.
Self-closing paste tube. J. Gaglio. 1,918,746; July 18.
Separable fastener. G. Sundback. 1,918,721; July 18.
Separating apparatus. C. B. Thorne. 1,918,621; July 18.
Separator: *See*—
Cylinder gold separator.
Serving tray. J. S. Frazin. Des. 90,309; July 18
Settee, Convertible. I. Cohen. 1,919,009; July 18.
Settling tank. H. E. Elrod. 1,918,742; July 18.
Sewer cleaner. A. B. Utley. 1,918,353; July 18.
Sharpening device for slicing machine knives. C. F. M. van Berkel. 1,918,575; July 18.
Sharpening the knives of slicing machines, Apparatus for. A. van Duyn. 1,918,576; July 18.
Shear, Flying. F. C. Biggert, jr. 1,918,319; July 18.
Shearing apparatus. F. C. Biggert, jr. 1,918,318; July 18.
Shedding device for washing machines and the like, Water. J. Mikulasek. 1,918,609; July 18.
Sheet material presenting an inflated pebbled surface and making the same, Coated. W. N. Shelton. 1,918,937; July 18.
Sheet metal drawing press. F. J. Rode. 1,918,784; July 18.
Sheet piles. J. E. Amand. 1,918,886; July 18.
Shelf retainer. A. Y. Dowell. 1,918,457; July 18.
Shellac-pigment composition. W. H. Gardner. 1,918,804; July 18.
Shield, Antiglare. W. S., G. D., and W. J. Hawkins. 1,918,701; July 18.
Shock absorber. E. F. Rossman. 1,918,565; July 18.
Shock absorber. M. Tibbetts. 1,918,574; July 18.
Shock absorbing device. B. L. Gruss. 1,918,697; July 18.
Shock absorbing strut for aeroplanes. B. L. Gruss. 1,918,698; July 18.
Shoe clutch. W. J. Pearmann. 1,918,286; July 18.
Shoes, Antislip attachment for. I. S. Greentree. 1,918,639; July 18.
Shore, Adjustable. J. G. Forsythe. 1,918,745; July 18.
Short wave repeating system, Ultra-. A. N. Goldsmith. 1,918,262; July 18.
Shutter, Radiator. U. K. Johannsen. 1,918,846; July 18.
Sign. R. M. Whitson. Des. 90,350; July 18.
Sign. G. T. Scott. 1,918,615; July 18.
Signal: *See*—
Traffic signal.
Signaling system. L. H. Chase. 1,919,007; July 18.
Signaling system. E. H. Smythe. 1,918,433; July 18.
Silicates with base exchanging properties, or so-called artificial zeolites, Manufacturing. A. B. Wiberg and P. M. E. Schön. 1,918,361; July 18.
Silicyl compounds, Making. H. Kaufmann. 1,918,338; July 18.
Silk by the copper oxide ammonia stretch spinning process, Production of artificial. A. Hartmann. 1,918,470; July 18.
Sipper. O. W. Fox. Des. 90,310–12; July 18.
Sirup pump. J. D. Fletcher. 1,918,903; July 18.
Slot cover. E. E. Tross. 1,918,878; July 18.
Soap and glycerine, Making. M. H. Ittner. 1,918,603; July 18.
Soil pulverizing and refining apparatus. F. Kopriver, jr., and P. H. Abbott. 1,918,917; July 18.
Solenoid motor. I. B. Winsor. 1,918,364; July 18.
Solvents from their mixtures with oil or fat in vacuo by evaporation of the solvents, Process and apparatus for separating. W. Gensecke. 1,918,638; July 18.
Sound record blank. J. A. Miller. 1,919,117; July 18.
Sound recording and method of and apparatus for making it. J. A. Miller. 1,919,116; July 18.
Sound recording and reproducing system. W. Herriott. 1,918,267; July 18.
Sound recording and reproducing system. A. C. Keller. 1,918,271; July 18.
Sound reproducing apparatus, Automatic. R. B. Bryant. 1,918,538; July 18.
Sound-reproducing device. M. Nystrom. 1,918,422; July 18.
Sound reproducing mechanism. E. J. Panish. 1,918,777; July 18.
Spacing machine. H. E. Hintz and G. P. Kline. 1,918,600; July 18.
Speed indicator, Stroboscopic relative. A. J. Heronimos. 1,918,908; July 18.
Spool holder. R. H. Carter. 1,918,518; July 18.
Spraying device. W. H. Andrews. 1,919,153; July 18.
Spreader, Manure. S. B. Alcott. 1,918,680; July 18.
Spring assembly. C. D. Karr. 1,918,390; July 18.
Spring suspension for vehicles. F. H. Jones. 1,918,755; July 18.
Squeegee. J. M. Oberti. 1,918,611; July 18.
Stacker, Movable lumber. J. A. Denton. 1,918,800; July 18.
Stairway landing, Moving. R. P. Valtier. 1,919,049; July 18.
Stand: *See*—
Display stand. Lamp stand.
Stand. E. B. Rogers. 1,918,933; July 18.
Starting device for internal combustion engines. J. J. Devine. Re18,897; July 18.
Statuette or similar article. W. Steinmann. Des. 90,347; July 18.
Steam boiler. H. Jesler. 1,918,396; July 18.

Steam boilers, Firing of. H. Jesler. 1,918,397; July 18.
Steam generator. J. G. Coutant. 1,918,453; July 18.
Steam lubricator. F. L. Badgett. 1,918,235; July 18.
Steam trap. L. P. Strong. 1,918,435; July 18.
Steels, Working austenitic. R. H. Aborn. 1,918,731; July 18.
Steering construction for tractor units. C. Rorabeck. 1,918,564; July 18.
Steering mechanism for automobiles. R. H. Chilton. 1,918,520; July 18.
Stop, Yielding. E. R. Marbach. 1,918,652; July 18.
Stopper. F. E. A. W. Bergaud. 1,918,243; July 18.
Store front. G. Malcolm. Des. 90,328; July 18.
Strainer. I. J. B. Demers. 1,918,836; July 18.
Strainer, Duplex. K. Muhleisen. 1,919,032; July 18.
Strainer, Well. G. W. Woods. 1,918,949; July 18.
Strap, Shoulder. A. Hawkins. 1,918,748; July 18.
Stretcher, Curtain. R. N. Aska. 1,918,868; July 18.
Strip, Metal box staying. W. D. Stanger. 1,918,992; July 18.
Strip, Metal furring. E. Fernstrom. 1,918,256; July 18.
Strips, Mechanism for unwinding and delivering continuous. C. G. Richardson. 1,918,984; July 18.
Structural member. K. W. McHose. 1,918,846; July 18.
Submarine rescue device. P. Koumoutsakos. 1,918,405; July 18.
Suction cleaner. W. H. Kitto. 1,918,400; July 18.
Suction cleaner. D. G. Smellie. H. B. White, and M. E. Nulsen. 1,918,432; July 18.
Suction cleaner. H. B. White. 1,918,360; July 18.
Suction cleaner. H. B. White. 1,919,001; July 18.
Sulphates, Production of. C. B. von Girsewald and E. Stahl. 1,918,355; July 18.
Superheater. J. A. McGrew. 1,918,654; July 18.
Support: *See*—
Fishing rod support. Tub support.
Surface and producing same, Finished. C. E. Fawkes. 1,918,692; July 18.
Surgical device. J. B. Bacon. 1,918,890; July 18.
Suspender attachment, Invisible. C. F. Schuls. 1,919,045; July 18.
Suspension means for motor-vehicle engines or gear boxes. P. Riley. 1,918,490; July 18.
Suspension, Vehicle. W. Noble. 1,919,033; July 18.
Swimming pool and skating rink, Convertible. H. Torrance. 1,918,437; July 18.
Switch: *See*—
Disconnecting switch. Mercury switch.
Electric switch. Tumbler switch.
Inclosed switch.
Switch. P. R. Broeske. 1,918,450; July 18.
Switch. E. H. Jacobs. 1,919,065; July 18.
Switch structure. F. J. Stuckert. 1,918,297; July 18.
Switch valve. E. B. Gill. 1,918,596; July 18.
Switching device. G. A. Ritchie. 1,919,089; July 18.
Synchronous motor. W. A. Marrison. 1,918,977; July 18.
Table: *See*—
Time table.
Table cover or similar article. R. H. Willcox. Des. 90,351; July 18.
Tabulator stop. F. H. Trego. 1,918,303; July 18.
Tank: *See*—
Settling tank.
Taps and other articles, Machine for manufacturing. A. D. Wilt, jr. 1,918,626. July 18.
Telegraph interference suppressor, Carrier. W. A. Phelps and A. M. Koerner. 1,919,035; July 18.
Telegraph repeating system. F. S. Kinkead. Re18,900; July 18.
Telegraphy, High speed. C. R. Dunham. 1,918,252; July 18.
Telephone set. C. H. J. Dilg. 1,918,801; July 18.
Telephones, Illuminating attachment for. E. Smith. 1,918,876; July 18.
Telescope, Tacheometric. A. König. 1,918,548; July 18.
Television and the like, Scanning device for G. W. Walton. 1,918,358; July 18.
Temperature regulator. F. Lauster. 1,919,068; July 18.
Terminal for drag conveyers. M. B. Smith. 1,919,175; July 18.
Tester, Tube. D. E. Sparks. 1,918,495; July 18.
Textile cover or similar article of manufacture. A. Shmitt. Des. 90,341; July 18.
Textile fabric. R. George. Des. 90,313; July 18.
Textile fabric. A. N. Harrison. Des. 90,315; July 18.
Textile fabric. E. G. Meyers. Des. 90,332–3; July 18.
Textile fabric. M. Poley. Des. 90 337; July 18.
Textile fabric or similar article. J. M. Gottesman. Des. 90,314; July 18.
Textile fabric or similar article. A. Kohut. Des. 90,322; July 18.
Textile fabric or similar article. J. Lukas. Des. 90,325–6; July 18.
Textile fabric or similar article. W. Schmid. Des. 90,340; July 18.
Textile fabric or similar article. J. Schweizer. Des. 90,344; July 18.
Textile fabric or similar article. M. A. Susi. Des. 90,348; July 18.
Therapeutic agent. E. H. Eising. 1,919,055; July 18.
Thermal conductivity cells, Construction of. W. O. Hebler and W. F. Hamilton. 1,918,702; July 18.
Thermostat. L. M. Persons. 1,918,778; July 18.
Thorium dioxide sol and making the same. R. Zellmaan. 1,918,884; July 18.
Thread cutter for looms, Temple. F. E. Douglas. 1,919,146; July 18.
Thread cutting tool. L. A. Alexander. 1,918,581; July 18.
Threads, Manufacturing artificial. G. Lecomte. 1,918,816; July 18.
Tillage implement. W. L. Paul. 1,918,928; July 18.
Time table. E. C. Burnham, jr. 1,918,631; July 18.
Timing device for laundry extractors. R. S. Elberty. 1,918,960; July 18.
Tire and making it, Pneumatic. A. J. Musselman. 1,918,553; July 18.
Tire casings, Method of and apparatus for building pneumatic. W. H Campbell. 1,918,320; July 18.
Tire cover. T. J. McCormick. 1,918,549; July 18.
Tire for vericles, Emergency. C. Gerben. 1,918,694; July 18.
Tobacco and similar materials, Transportation and holding. G. D. Harris. 1,919,107; July 18.
Tool: *See*—
Expanding tool. Pipe unscrewing tool.
Hand tool. Thread cutting tool.
Internal cylinder grinding tool.
Tool. C. E. Hinckley and R. Green. 1,918,268; July 18.
Tool joint. L. F. Baash. 1,918,443; July 18.
Tooth, Dipper. F. Finkl. 1,918,841; July 18.
Torpedo, Electrically ignited. R. H. Fladger. 1,918,594; July 18.
Toy, Aerial. W. A. Martin. 1,918,413; July 18.
Toy bank. H. Eschenbacher. 1,918,691; July 18.
Toy windmill. J. Hammarstrom. 1,918,747; July 18.
Track for motor vehicles, Endless. A. F. Masury. 1,918,853; July 18.
Track relay. A. W. Hull. 1,919,064; July 18.
Tractor. H. E. McCray. 1,919,069; July 18.
Traffic signal. D. H. Dyer and W. F. Rodenkirchen. 1,918,327; July 18.
Train pipe coupling. A. K. Kusebauch. 1,918,278; July 18.
Transmission control. E. I. Green. 1,918,890; July 18.
Transmission system, Signal. N. C. Norman. 1,918,822; July 18.
Transmitter, Hydraulic rotary power. W. W. Baker. 1,918,236; July 18.
Transmitting device, Flexible power. C. A. Arens. 1,918,792; July 18.
Transom for passenger cars, Ventilating and reflecting. F. M. Whyte. 1,918,790; July 18.
Trap: *See*—
Animal trap. Steam trap.
Box trap.
Tray, Self-freeing ice. S. W. E. Andersson. 1,918,813; July 18.
Trolley base. F. R. Dippman. 1,918,837; July 18.
Trolley head. G. A. Mead. 1,918,854; July 18.
Trough, Feeding. L. A. Whitmer. 1,918,729; July 18.
Truck, Church. A. H. Dolge. 1,919,103; July 18.
Truck, Industrial E. H. Remde. 1,919,170; July 18.
Truck, Industrial. E. H. Remde. 1,918,289; July 18.
Truing apparatus. H. D. Munday. 1,918,483; July 18.
Truss. F. S. Burton. 1,918,590; July 18.
Tub support. W. P. Johnson. 1,918,604; July 18.
Tube: *See*—
Paint tube. Self closing paste tube.
Paste tube.
Tubes, Machine for feeding and shaping metallic. C. W. Vogt. 1,918,356; July 18.
Tubing, Apparatus for manufacturing. J. W. Moon. 1,918,772; July 18.
Tumbler switch. A. H. Nero. 1,919,119; July 18.
Tunnels, Constructing. J. C. Meem. 1,918,855; July 18.
Typewriting machine W. F. Helmond. 1,918,598; July 18.
Typewriting machine. D. Y. Read. 1,918,665; July 18.
Typewriting machines, Back spacing mechanism for. F. H. Trego. 1,918,304; July 18.
Typewriting machines, Frame extension for. F. H. Trego. 1,918,302; July 18.
Typographical machines, Line safety device for. W. M. Bryars. 1,918,376; July 18.
Universal joint. F. W. Peters. 1,918,618; July 18.
Unloading system. S. Green. 1,918,330; July 18.
Unscrewing tool, Pipe. R. A. Phillips. 1,918,663; July 18.
Upholstery making machine and process. A. S. Mitchell. 1,918,284; July 18.
Upholstery pin. D. L. Reiter. 1,919,038; July 18.
Vacuum cleaner. W. J. Clements. 1,918,519; July 18.
Vacuum cleaner. G. Ljungquist. 1,918,764; July 18.
Vacuum cleaner. R. A. Ponselle. 1,918,713; July 18.
Vacuum cleaner motor. A. C. Gilbert. 1,918,695; July 18.
Vacuum cup. G. W. Bungay. 1,918,686; July 18.
Vacuum or pressure gauge. N. W. Cummings. 1,918,635; July 18.
Vacuum tubes, Attachment for. H. G. Pack. 1,918,863; July 18.
Valve: *See*—
Adjustable valve. Internal emergency shut off valve.
Breather valve.
Gas valve. Switch valve.
Valve for refrigerator cars, Thermostatic control. J. Kopsa and E. D. Brigham, jr. 1,918,272; July 18.
Valve structure for flush tanks. W. U. Griffiths. 1,918,597; July 18.

Valves. P. A. Kinzie. 1,919,165; July 18.
Vehicle body front construction. J. Ledwinka. 1,918,410; July 18.
Vehicle drive. W. F. Rockwell. 1,918,932; July 18.
Vehicle jack. H. Redding. 1,918,783; July 18.
Vehicle propulsion and control system. H. H. Cutler. 1,919,181; July 18.
Vehicle suspension, Resilient. H. Coubrough. 1,918,452; July 18.
Vending machine. W. B. Brunton. 1,918,737; July 18.
Vending machine. H. Giles. 1,919,017; July 18.
Vent valve. W. N. Glab. 1,918,807; July 18.
Ventilating means on ships or aircraft. M. Schirmer. 1,918,568; July 18.
Vibration, Device for eliminating torsional. G. J. Dashefsky. 1,918,249; July 18.
Vibrator, Hand. A. J. Dremel. 1,918,458; July 18.
Vitamin concentrate and preparation. R. K. Prince. 1,918,983; July 18.
Voltage indicating apparatus. P. H. Crago. 1,918,834; July 18.
Vulcanization of artificial rubber like masses. T. Goost. 1,918,466; July 18.
Vulcanizing rubber. H. L. Fisher. 1,918,328; July 18.
Wall, Furnace side. W. I. Bowden. 1,919,087; July 18.
Wall rack, Collapsible and adjustable. R. E. Miller. 1,918,708; July 18.
Washer: *See*—
Air washer. Golf ball washer.
Washing machine. A. F. Brots. 1,918,832; July 18.
Washing machine. R. L. Gilbert. 1,918,696; July 18.
Washing machine. A. E. Hanson. 1,918,809; July 18.
Watch timer. G. D. Gustafson. 1,918,965; July 18.
Water cooler. V. M. Maine. 1,918,767; July 18.
Water distributing system for drawworks. D. S. Faulkner and L. E. Zerbe. 1,918,499; July 18.
Water film from heat transmitting walls, Apparatus for removing. H. Wiltsch. 1,919,179; July 18.
Water, Treatment of steep. R. W. Kerr and H. Berlin. 1,918,812; July 18.
Waterless gas holder. A. M. Antich. 1,918,791; July 18.
Water sled or surf board. W. L. Wheeler. 1,918,508; July 18.
Weather strip and its spring-pressed actuator, Spring-pressed. H. M. Purdy. 1,918,865; July 18.
Web severing device. E. H. Laabs. 1,918,407; July 18.
Well, Apparatus for cleaning a filter bed of a. P. S. Judy. 1,918,756; July 18.
Well surveying device. J. V. Box and E. N. Cooke. 1,918,448; July 18.
Wetting agents. H. Bertsch. 1,918,373; July 18.
Wick burner. W. C. Lindemann and G. C. Lorenz. 1,918,851; July 18.
Winding machine. A. F. Pym. 1,918,714; July 18.
Winding machines and the like, Traverse-motion for. J. K. Bryant. 1,918,587; July 18.
Winding mechanism. L. Oskow. 1,919,122; July 18.
Window and weatherstrip for windows. F. W. and B. W. Stevens. 1,919,047; July 18.
Window check, Spring door and. O. G. I. O'Heir. 1,918,924; July 18.
Window glass cushioning device. C. C. Dunn. 1,919,013; July 18.
Window pane retaining strip. A. Bresinski. 1,918,797; July 18.
Window screen. R. A. and G. H. Norquist. 1,918,660; July 18.
Windshield construction. J. S. MacMullen. 1,918,922; July 18.
Windshield heater. D. N. Fantaci. 1,918,387; July 18.
Wing structure for flying machines. L. Breguet. 1,919,088; July 18.
Wiper, Windshield heater and. A. G. Luttrell. 1,918,651; July 18.
Wire drawing apparatus. J. L. Alden. 1,918,237; July 18.
Wiring machine. J. P. Mingle. 1,918,352; July 18.
Work holder for slicing machines. H. Thomas. 1,918,673; July 18.
Wringer, Mop. S. Schulman. 1,918,986; July 18.
Writing element, Adjustable. F. Furedy. 1,918,464; July 18.
Zinc furnace. E. H. Bunce and P. M. Ginder. 1,918,245; July 18.

CLASSIFICATION OF PATENTS

ISSUED JULY 18, 1933

NOTE.—First number—class, second number—subclass, third number—patent number.

2— 12: 1,918,294
20: 1,919,094
67: 1,918,630
68: 1,919,052
69: 1,919,154
4— 53: 1,918,507
208: 1,918,515
5— 40: 1,919,009
90: 1,918,896
271: 1,918,399
351: 1,918,412
8— 2: 1,918,873
21: 1,919,141
9— 11: 1,918,508
10— 26: 1,918,910
115: 1,918,581
134: 1,918,200
12— 4: 1,918,274
142: 1,918,946
13— 20: 1,919,054
15— 1: 1,919,132
8: 1,918,432
9: 1,918,713
13: 1,919,067
21: 1,918,320
104.30: 1,918,353
138: 1,918,440
167: 1,918,521
179: 1,918,360
190: 1,919,010
1,919,011
245: 1,918,611
250: 1,918,681
263: 1,918,986
16— 64: 1,918,579
83: 1,918,652
85: 1,918,924
161: 1,918,513
18— 19: 1,918,532
1,919,070
49: 1,918,466
1,918,671
53: 1,918,328
1,919,111
54: 1,918,374
1,918,470
1,918,516
58: 1,918,383
59: 1,918,505
19— 67: 1,918,610
1,918,774
162: 1,918,285
20— 2: 1,918,375
22: 1,918,964
35: 1,918,911
40.5: 1,918,287
56.4: 1,918,797
67: 1,918,865
69: 1,919,047
22— 116: 1,918,417
23— 7: 1,918,362
89: 1,918,622
109: 1,918,941
112: 1,918,361
117: 1,918,355
142: 1,918,923
143: 1,918,735
162: 1,918,957
1,919,005
207: 1,919,086
260: 1,918,370
279: 1,918,377
280: 1,918,694
24— 37: 1,918,257
51: 1,918,275
152: 1,919,088
205: 1,918,721
1,918,779
224: 1,918,334
245: 1,918,494
248: 1,919,003
25— 118: 1,918,333
1,918,710
156: 1,918,496
28— 51: 1,919,122
29— 1: 1,918,578
20— 38: 1,918,626
50: 1,918,538
84: 1,918,528
1,918,557
90: 1,919,152
142: 1,918,469
157: 1,918,715
160.6: 1,918,457
30— 12: 1,918,625
1,918,636
1,918,856
1,918,989
31— 55: 1,919,172
33— 1: 1,918,550
46.5: 1,919,126
205: 1,918,446
215: 1,919,105
220: 1,918,904
34— 12: 1,919,057
26: 1,918,927
1,919,061
35— 9: 1,918,206
12: 1,918,920
36— 7.7: 1,918,630
67: 1,918,270
37— 2: 1,919,075
42: 1,918,771
108: 1,918,842
129: 1,918,669
142: 1,918,841
156: 1,918,861
40— 4: 1,918,343
70: 1,918,631
135: 1,918,727
1,918,933
130: 1,918,616
133: 1,918,616
145: 1,918,570
1,918,571
41— 10: 1,918,998
17: 1,919,018
38: 1,919,095
24: 1,919,038
1,919,039
39: 1,918,269
43— 51: 1,918,507
61: 1,918,269
80: 1,918,552
148: 1,918,449
45— 6: 1,918,780
24: 1,918,888
57: 1,918,547
97: 1,918,802
138: 1,918,284
46— 14: 1,918,747
1,918,413
36: 1,918,691
37: 1,918,543
40: 1,918,574
47— 1: Pl. Pt. 70
41: 1,918,785
48— 30: 1,918,479
74: 1,918,255
176: 1,918,791
1,918,804
177: 1,918,315
196: 1,918,254
49— 8: 1,919,162
1,919,176
1,919,177
47: 1,918,962
1,919,167
81: 1,918,956
50— 8: 1,918,612
23: 1,918,720
26: 1,918,602
51— 15: 1,918,653
29: 1,918,743
96: 1,918,668
100: 1,918,584
103: 1,919,143
1,918,144
123: 1,918,951
165: 1,918,302
170: 1,918,952
184.3: 1,918,852
51— 218: 1,918,704
244: 1,918,483
248: 1,918,575
1,918,576
263: 1,919,026
273: 1,918,221
278: 1,918,242
1,919,180
280: 1,918,312
52— 4: 1,918,920
53— 6: 1,918,493
7: 1,918,257
55— 53: 1,919,060
56— 32: 1,918,620
249: 1,918,349
1,918,357
58— 2: 1,918,521
61— 42: 1,918,855
60: 1,918,986
62— 4: 1,919,078
5: 1,918,352
1,918,969
1,918,970
12: 1,918,437
44: 1,918,767
90: 1,918,816
108.5: 1,918,313
118: 1,918,061
119.5: 1,918,342
1,918,662
179: 1,918,820
64— 96: 1,918,249
102: 1,918,613
66— 75: 1,918,762
134: 1,919,123
67— 75: 1,918,808
68— 37: 1,918,809
69— 9.5: 1,918,769
70— 20: 1,918,979
31: 1,918,814
73: 1,919,001
91: 1,918,411
1,918,719
71— 7: 1,918,900
9: 1,918,454
72— 113: 1,918,256
130: 1,918,709
73— 12: 1,918,340
1,918,341
31: 1,918,835
51: 1,918,702
54: 1,918,709
82: 1,918,972
161: 1,918,283
167: 1,918,908
74— 14: 1,918,587
1,918,606
1,918,784
1,918,532
34: 1,918,775
39: 1,918,792
40: 1,918,776
55: 1,918,580
79: 1,918,667
81: 1,918,918
1,918,919
99: 1,918,864
101: 1,918,649
109: 1,918,707
75— 1: 1,918,260
18: 1,918,517
88: 1,918,230
76— 112: 1,918,770
77— 75: 1,918,642
80— 11: 1,918,772
32: 1,918,908
81— 15.1: 1,918,921
82— 2: 1,918,331
22: 1,918,332
33: 1,919,004
44: 1,918,522
83— 11: 1,918,917
73: 1,918,284
1,919,073
84— 282: 1,918,510
358: 1,918,205
84— 385: 1,918,506
85— 1: 1,918,441
30: 1,918,936
87— 9: 1,918,403
1,918,503
1,919,125
16: 1,918,603
17: 1,919,158
27: 1,918,555
88— 1: 1,918,262
1,919,020
1,919,022
2.2: 1,918,548
1,918,556
2.7: 1,918,527
14: 1,918,548
1,918,908
1,918,976
16.4: 1,918,724
16.6: 1,919,115
16.8: 1,918,788
17: 1,918,599
20: 1,918,540
24: 1,918,468
1,918,488
40: 1,918,351
1,918,619
44: 1,918,964
47: 1,918,953
1,918,998
52: 1,918,982
54: 1,918,999
90— 4: 1,918,861
11: 1,919,150
12: 1,918,268
49: 1,918,990
91— 43: 1,918,462
45: 1,919,153
68: 1,918,204
1,918,418
1,918,602
70: 1,918,937
73: 1,919,126
92— 7: 1,918,450
11: 1,918,250
13: 1,919,140
14: 1,918,558
21: 1,918,781
35: 1,918,631
44: 1,918,514
57: 1,918,782
93— 89: 1,918,991
94— 1.5: 1,918,336
95— 19: 1,918,564
96— 1: 1,918,705
2: 1,918,560
1,918,623
1,919,021
4.6: 1,919,080
32: 1,918,613
97— 47: 1,918,950
53: 1,918,720
100: 1,918,928
98— 2: 1,918,630
25: 1,918,668
99— 5: 1,918,983
11: 1,918,895
1,919,025
100— 44: 1,918,858
101— 28: 1,918,943
277: 1,919,051
102— 21: 1,918,894
103— 38: 1,919,040
87: 1,919,007
102: 1,918,320
161: 1,918,408
105— 280: 1,918,948
320: 1,918,790
106— 8: 1,919,087
13: 1,918,971
108— 7: 1,919,148
10: 1,919,174
109— 1: 1,918,885
110— 8: 1,918,525
28: 1,918,401
97: 1,918,935
112— 111: 1,918,261
235: 1,918,643
252: 1,918,482
265: 1,918,280
113— 7: 1,918,682
9: 1,918,661
114— 16.5: 1,918,405
116— 63: 1,918,227
124.1: 1,919,043
148: 1,918,551
117— 7: 1,918,740
118— 50: 1,918,644
119— 18: 1,918,429
37: 1,918,585
44: 1,918,930
72: 1,918,729
80: 1,918,566
142: 1,918,647
120— 14: 1,918,464
18: 1,918,916
46: 1,918,844
47: 1,918,404
52: 1,918,230
121— 6: 1,918,787
41: 1,918,424
1,918,985
122— 6: 1,919,067
32: 1,919,029
68: 1,918,420
135: 1,919,164
136: 1,918,307
235: 1,918,311
1,918,453
280: 1,918,325
369: 1,918,363
452: 1,918,306
481: 1,918,654
1,918,655
123— 32: 1,919,069
58: 1,918,840
122: 1,918,380
1,918,659
124: 1,918,913
174: 1,918,471
188: 1,918,481
196: 1,918,908
126— 90: 1,918,617
113: 1,918,365
119: 1,919,008
152: 1,918,497
163: 1,918,408
240: 1,919,088
317: 1,918,722
128— 20: 1,919,120
28: 1,918,546
41: 1,918,458
63: 1,919,062
100: 1,918,880
230: 1,918,681
252: 1,918,633
230: 1,918,708
280: 1,919,134
308: 1,918,800
306: 1,918,700
322: 1,918,889
129— 1: 1,918,773
13: 1,918,436
16: 1,918,426
1,918,765
24: 1,918,567
38: 1,918,502
41: 1,918,461
55: 1,919,107
132— 79: 1,919,012
134— 1: 1,918,760
35: 1,918,839
39: 1,918,504
58: 1,918,890
5: 1,918,423
135— 36: 1,918,947
136— 75: 1,918,959
106: 1,918,678
101: 1,919,109
103: 1,918,495
139: 1,918,891
1,919,112
137— 139: 1,919,165
139— 122: 1,919,151
124: 1,919,147
129: 1,918,288
308: 1,919,146
140— 94: 1,918,552
141— 1: 1,918,782
1,918,783
144— 300: 1,918,516
145— 16: 1,918,760
51: 1,918,944
146— 2: 1,918,463
73: 1,918,930
102: 1,918,672
160: 1,918,675
148— 8: 1,918,545
12: 1,918,731
16: 1,918,806
24: 1,918,909
150— 1: 1,918,708
1.5: 1,918,447
33: 1,918,703
39: 1,918,883
54: 1,918,549
151— 4: 1,918,289
152— 18: 1,918,824
1,918,830
21: 1,918,511
153— 32: 1,918,356
80: 1,918,640
154— 2.6: 1,918,498
14: 1,918,530
1,918,553
46: 1,918,949
54: 1,918,246
54.5: 1,918,517
155— 49: 1,918,281
107: 1,919,110
179: 1,918,700
1,918,781
184: 1,918,618
156— 14: 1,918,660
158— 94: 1,918,861
159— 25: 1,918,385
161— 9: 1,918,805
39: 1,919,007
164— 6.6: 1,918,316
41: 1,918,407
42: 1,918,888
61: 1,918,360
68: 1,918,318
1,918,319
118: 1,918,660
166— 1: 1,918,756
6: 1,918,949
14: 1,918,810
167— 40: 1,918,899
60: 1,918,894
68: 1,919,055
169— 31: 1,919,149
171— 95: 1,918,940
97: 1,918,579
119: 1,918,819
123: 1,918,139
205: 1,918,967
209: 1,918,968
252: 1,918,702
172— 36: 1,918,695
126: 1,918,394
183: 1,919,014
230: 1,918,960
240: 1,918,456
245: 1,918,977
278: 1,918,338
281: 1,919,088
280: 1,918,973
173— 244: 1,918,344
282: 1,918,726
318: 1,919,074
344: 1,918,869
354: 1,918,726
361: 1,918,883
174— 80: 1,918,907
177: 1,918,886
175— 41: 1,918,525
183: 1,918,894
1,918,979

175— 294: 1,918,978
1,919,062
1,919,077
1,919,092
298: 1,918,168
315: 1,918,716
1,918,717
330: 1,918,473
1,918,995
363: 1,918,577
1,918,787
1,918,870
366: 1,918,526
369: 1,918,525
376: 1,918,266
1,918,278
176— 89: 1,918,725
122: 1,918,309
177— 311: 1,919,086
320: 1,918,480
336: 1,919,015
178— 6: 1,918,358
1,918,827
44: 1,918,300
1,918,822
46: 1,919,019
51: 1,918,282
69: 1,919,085
1,919,161
71: R. 18,900
179— 2.8: 1,919,048
8: 1,918,240
49: 1,918,200
103: 1,918,801
103.3: 1,918,287
103.41: 1,918,972
171: 1,918,358
180— 9.1: 1,918,854
72: 1,918,289
71: 1,918,982
181— 27: 1,918,366
31: 1,918,839
32: 1,918,421
1,918,422
182— 31: 1,918,809
183— 12: 1,918,531
34: 1,918,614
51: 1,918,764
184— 3: 1,918,405
7: 1,919,118
80: 1,918,235
187— 1: 1,918,427
188— 18: 1,918,572
43: 1,918,905
88: 1,918,585
98: 1,918,354
152: 1,918,465
188: 1,918,889
210: 1,918,835
251: 1,919,106
264: 1,918,400
1,918,800
1,918,801
189— 1.8: 1,918,831
30: 1,918,843
37: 1,918,345
1,918,346
41: 1,919,071
88: 1,918,415
190— 12: 1,918,241
41: 1,918,310
1,918,682
1,919,083
191— 4: 1,919,151

191— 49: 1,918,795
1,918,796
89.1: 1,918,854
70: 1,918,837
192— 61: 1,918,236
76: 1,918,286
194— 72: 1,918,875
93: 1,919,017
195— 20: 1,918,812
196— 16: R. 18,898
42: R. 18,899
49: 1,918,766
83: 1,919,105
85: R. 18,896
91: 1,918,304
127: 1,918,301
135: 1,918,596
180: 1,918,416
186: 1,918,302
198— 16: 1,919,049
21: 1,918,537
115: 1,919,169
160: 1,919,175
220: 1,919,086
199— 18: 1,918,629
52: 1,918,376
200— 15: 1,919,039
16: 1,918,901
48: 1,918,741
1,919,065
67: 1,919,119
83: 1,918,880
87: 1,918,504
90: 1,919,041
100: 1,918,798
101: 1,918,732
114: 1,918,860
121: 1,918,206
220— 9: 1,918,335
25: 1,918,883
35: 1,918,664
44: 1,918,807
88: 1,918,906
89: 1,918,726
166: 1,918,533
168: 1,918,282
201— 63: 1,918,259
1,919,061
76: 1,918,317
202— 30: 1,918,709
47: 1,918,997
55: 1,918,638
67: 1,918,283
77: 1,919,145
93: 1,918,739
135: 1,918,926
140: 1,919,098
215: 1,918,367
252: 1,918,800
204— 1: 1,918,492
1,918,605
6: 1,918,627
9: 1,918,477
17: 1,919,000
205— 20: 1,918,237
206— 31: 1,918,744
41: 1,919,099
49: 1,918,476

206— 56: 1,919,133
65: 1,918,993
207— 17: 1,918,858
209— 42: 1,918,489
73: 1,918,306
208: 1,918,742
466: 1,918,343
210— 70: 1,918,436
105: 1,918,446
150: 1,918,836
164: 1,918,980
1,918,034
168: 1,919,031
181: 1,919,085
303: 1,918,808
211— 1: 1,918,634
35: 1,918,708
51: 1,918,571
137: 1,918,329
156: 1,918,712
212— 12: 1,918,862
17: 1,918,806
29: 1,918,646
214— 6: 1,918,800
8.5: 1,918,534
65: 1,918,419
98: 1,919,096
215— 6: 1,918,307
1,918,308
43: 1,918,786
46: 1,918,478
216— 19: 1,919,042
56: 1,918,987
219— 8: 1,918,963
19: 1,918,276
1,919,050
20: 1,919,068
25: 1,918,693
32: 1,919,150
38: 1,918,414
40: 1,918,734
41: 1,918,314
47: 1,918,637
220— 9: 1,918,335
25: 1,918,883
35: 1,918,664
44: 1,918,807
88: 1,918,906
89: 1,918,726
166: 1,918,533
168: 1,918,282
221— 47.3: 1,918,333
60: 1,918,746
1,919,044
95: 1,918,931
101: 1,919,105
224— 25: 1,918,389
225— 35: 1,918,903
1,919,173
226— 43: 1,919,048
92: 1,919,060
95: 1,919,155
102: 1,918,641
228— 1: 1,918,293
229— 4.5: 1,918,925
21: 1,918,811
29: 1,919,028
36: 1,918,387
44: 1,919,100
49: 1,918,992
85: 1,918,384
230— 50: 1,918,882
132: 1,918,400
231: 1,918,247
234— 1.5: 1,918,965
34: 1,918,388

235— 32: 1,918,915
88: 1,918,723
236— 1: 1,918,502
10: 1,918,778
14: 1,918,512
15: 1,918,872
32: 1,918,265
99: 1,919,129
101: 1,918,272
238— 187: 1,919,131
330: 1,918,305
240— 2.17: 1,918,976
10.64: 1,918,803
10.65: 1,918,347
10.67: 1,919,096
10.68: 1,919,024
48.6: 1,918,701
61.11: 1,918,945
78: 1,918,455
1,918,484
1,918,523
1,918,628
241— 12: 1,918,748
25: 1,919,045
242— 3: 1,918,714
43.3: 1,919,127
75: 1,918,984
84.5: 1,919,104
88: 1,918,768
107: 1,918,657
130: 1,918,518
244— 2: 1,918,426
1,918,523
1,918,688
7: 1,919,121
12: 1,918,536
1,918,897
14: 1,918,656
18: 1,918,277
19: 1,919,089
31: 1,918,687
1,919,088
1,919,142
246— 40: 1,919,064
293: 1,918,815
247— 5: 1,918,297
6: 1,918,676
13: 1,918,450
18: 1,918,351
249— 2: 1,918,745
7: 1,919,114
14.2: 1,918,490
23: 1,918,457
250— 11: 1,918,291
1,918,850
13: 1,918,402
15: 1,918,262
19: R. 18,895
20: 1,918,433
1,918,674
1,918,683
1,918,857
1,918,975
1,919,100
27: 1,918,495
1,918,899
27.5: 1,918,244
40: 1,918,238
1,918,826
41.5: 1,919,182
251— 22: 1,918,506
150: 1,918,430
165: 1,918,758
252— 1: 1,918,372

252— 1: 1,918,373
3: 1,918,467
253— 3: 1,918,645
254— 26: 1,919,128
44: 1,919,090
86: 1,918,783
93: 1,919,156
111: 1,918,994
134: 1,918,501
139.1: 1,918,409
255— 35: 1,918,663
71: 1,918,902
257— 42: 1,918,601
64: 1,918,914
108: 1,919,179
132: 1,918,848
234: 1,918,908
260: 1,918,603
265: 1,918,434
269— 81: 1,918,670
101: 1,918,609
1,918,945
106: 1,919,101
128: 1,918,738
129: 1,919,102
144: 1,919,006
260— 3: 1,919,135
4: 1,918,906
1,919,163
12: 1,918,838
45: 1,918,803
98: 1,918,338
1,918,626
101: 1,918,251
102: 1,919,002
108: 1,919,023
124: 1,918,461
130: 1,918,648
157: 1,918,967
166: 1,918,371
1,918,624
261— 1: 1,918,912
29: 1,918,431
84: 1,918,974
41: 1,918,530
44: 1,919,134
46: 1,918,751
53: 1,918,328
115: 1,918,942
262— 2: 1,918,348
263— 42: 1,918,245
265— 11: 1,918,270
39: 1,918,877
267— 11: 1,918,573
1,918,574
1,918,755
64: 1,918,322
1,918,607
1,918,698
1,918,699
268— 2: 1,919,137
271— 2: 1,918,425
2.1: 1,918,524
272— 57: 1,918,559
273— 24: 1,918,994
35: 1,918,350
38: 1,919,094
67: 1,918,485
73: 1,919,072
88: 1,918,892
106.5: 1,918,718
122: 1,918,749
141: 1,918,472
155: 1,918,754

274— 1: 1,918,777
10: 1,918,588
43: 1,919,117
46: 1,918,271
1,919,116
275— 5: 1,918,690
277— 61: 1,918,337
70: 1,918,544
279— 46: 1,918,955
123: 1,918,439
280— 33.5: 1,918,382
33.9: 1,918,391
36: 1,919,105
50: 1,918,604
91: 1,919,170
93: 1,918,445
1,918,530
124: 1,919,033
281— 40: 1,918,474
284— 17: 1,918,689
285— 68: 1,918,273
69: 1,918,695
146: 1,918,443
169: 1,919,001
287— 54: 1,918,607
90: 1,918,304
1,918,305
1,919,178
116: 1,918,306
119: 1,918,583
288— 3: 1,918,442
290— 38: R. 18,897
292— 94: 1,918,847
145: 1,919,076
238: 1,918,233
335: 1,918,563
294— 64: 1,918,686
86: 1,918,576
87: 1,918,486
296— 28: 1,919,063
28: 1,918,410
35: 1,918,452
44.5: 1,918,444
1,918,561
1,918,606
1,919,013
1,919,130
84: 1,918,923
109: 1,918,476
299— 98: 1,918,990
107.7: 1,918,324
1,919,127
301— 33: 1,918,171
39: 1,918,694
302— 34: 1,918,330
304— 18: 1,919,016
305— 10: 1,918,853
306— 11: 1,918,519
308— 72: 1,918,690
88: 1,919,113
89: 1,918,379
123: 1,918,128
166: 1,918,733
187: 1,918,988
214: 1,918,677
309— 45: 1,918,183
312— 84: 1,918,460
88: 1,918,737
73: 1,918,966

U. S. GOVERNMENT PRINTING OFFICE: 1933

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abingdon Press, Inc., The. (See Methodist Book Concern, Inc., The.)

Acme White Lead & Color Works, Detroit, Mich. Prepared paints. Serial No. 338,302; July 25. Class 16.

Aluminum Cooking Utensil Company, The, New Kensington, Pa. Base metal hollow ware. Serial Nos. 337,985–6; July 25. Class 13.

American Bottling, Inc., Providence, R. I. Malt beverages. Serial Nos. 338,475–6; July 25. Class 48.

American Hard Rubber Company, Hempstead and New York, N. Y. Refrigerator shelves. Serial No. 339,089; July 25. Class 31.

American Safety Razor Corporation, Brooklyn, N. Y. Safety razors and blades. Serial No. 338,765; July 25. Class 23.

American Tissue Mills, Holyoke, Mass. Paper napkins. Serial No. 338,859; July 25. Class 37.

Anderson, Dobson & Co. Limited, London, England. Wines. Serial No. 338,351; July 25. Class 47.

Anderson, Oscar O., doing business as Supreme Ink Company, Waterbury, Conn. Writing ink. Serial No. 335,184; July 25. Class 11.

Apparel Arts Publications, Inc., Chicago, Ill. Publication. Serial No. 336,065; July 25. Class 38.

Arena, Joseph, doing business as Arena Brothers, San Francisco, Calif. Olive oil. Serial No. 337,989; July 25. Class 46.

Atlantic Sportwear Co., Inc., Asbury Park, N. J. Jackets, sport coats, etc. Serial No. 338,591; July 25. Class 39.

Ault & Wiborg Varnish Works, Inc., The, New York, N. Y. Varnishes, treated oils used as paint vehicles, etc. Serial No. 337,009; July 25. Class 16.

Baker Clothes, Inc., Philadelphia, Pa. Suits. Serial No. 338,763; July 25. Class 39.

Barbasol Company, The, Indianapolis, Ind. Safety razors and blades. Serial No. 332,979; July 25. Class 23.

Barbasol Company, The, Indianapolis, Ind. Razor blades. Serial No. 333,278; July 25. Class 23.

Barbey, John, assignor to Barbey's Inc., Reading, Pa. Beer, ale, porter, etc. Serial No. 336,596; July 25. Class 48.

Barman, Louis M., Chicago, Ill. Duplicating stencils. Serial No. 338,213; July 25. Class 37.

Barnes, Henry K., Company, Boston, Mass. Leather belting. Serial No. 337,452; July 25. Class 35.

Batex Products Co., Batavia, Ill. Cleaning powder. Serial No. 336,854; July 25. Class 4.

Beemer, Idalyne M., Los Angeles, Calif. Hand protectors for gloves. Serial No. 336,318; July 25. Class 39.

Bell Publishing Company, Temple, Tex. Newspaper. Serial No. 338,923; July 25. Class 38.

Berghoff Brewing Corporation, Fort Wayne, Ind. Malt beverage. Serial No. 336,420; July 25. Class 48.

Best & Co., Inc., New York, N. Y. Hats. Serial No. 337,909; July 25. Class 39.

Biaceglia Brothers, San Jose, Calif. Wines. Serial No. 338,829; July 25. Class 47.

Black & Decker Manufacturing Company, The, Towson, Md. Electric valve seat grinders and parts. Serial No. 338,242; July 25. Class 21.

Bonnet-Brown Corporation, The, Chicago, Ill. Comic strips for newspapers. Serial No. 338,963; July 25. Class 38.

Bonney Forge & Tool Works, Allentown, Pa. Wrenches. Serial No. 338,597; July 25. Class 23.

Bonwit Teller & Co., New York, N. Y. Corsets and brassières, etc. Serial No. 336,899; July 25. Class 39.

Boulestin & Co., Cognac, France. Brandy. Serial Nos. 338,275–6; July 25. Class 49.

Bravo, Mauricio, doing business as Bravo Musical String Co., Chicago, Ill. Musical strings. Serial No. 337,067; July 25. Class 36.

Briede, Lester G., doing business as Royles Laboratories, Chicago, Ill. Castor oil preparation. Serial No. 338,173; July 25. Class 6.

British American Brewing Company, Limited, Windsor, Ontario, Canada. Ales. Serial No. 338,215; July 25. Class 48.

Brown Company, Portland, Maine, and Berlin, N. H. Yarns and threads. Serial No. 338,483; July 25. Class 43.

Bryant Electric Company, The, Bridgeport, Conn. Switches. Serial No. 336,977; July 25. Class 21.

Burke, Thomas J., doing business as Tom Burke, New Orleans, La. Cartoon strip. Serial No. 338,864; July 25. Class 38.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. Serial No. 338,182; July 25. Class 12.

California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif. Fungicides. Serial No. 338,309; July 25. Class 6.

California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif. Insecticidal, germicidal and fungicidal sprays. Serial No. 338,310; July 25. Class 6.

California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif. Insecticides, fungicides, and germicides. Serial No. 338,311; July 25. Class 6.

California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif. Insecticides, germicides, etc. Serial No. 338,556; July 25. Class 6.

Campana Corporation, Batavia, Ill. Creams as an aid to shaving, toilet soaps. Serial No. 337,832; July 25. Class 4.

Campana Corporation, Batavia, Ill. Manicure sets. Serial No. 337,833; July 25. Class 44.

Campana Corporation, Batavia, Ill. Cleaning tissues. Serial No. 337,834; July 25. Class 37.

Campbell, Archibald, Hope & King Limited, Glasgow, Scotland. Whisky. Serial No. 335,715; July 25. Class 49.

Campbell, Morrell & Company, Passaic, N. J. Coal. Serial No. 338,070; July 25. Class 1.

Canfield Oil Company, The, Cleveland, Ohio. Lubricating oils and greases. Serial No. 338,557; July 25. Class 15.

Carboloy Company, Inc., Detroit, Mich. Hard metal composition. Serial No. 338,833; July 25. Class 14.

Carboloy Company, Inc., Detroit, Mich. Hard metal composition or alloy. Serial No. 338,926; July 25. Class 14.

Carnegie, P. D., & Sons, Ltd., London, England. Whisky. Serial Nos. 338,071–2; July 25. Class 49.

Cincinnati Tailoring Company, Cincinnati, Ohio. Clothes. Serial No. 334,739; July 25. Class 39.

Coghlan & Loiselle, Kankakee, Ill. Pillows, mattresses, etc. Serial No. 326,579; July 25. Class 32.

Cohn, Morris doing business as Pine-Odeur Products Company, Belleville, N. J. Bath salts. Serial No. 338,312; July 25. Class 6.

Companhia Geral da Agricultura das Vinhas do Alto Douro, doing business as Real Companhia dos Vinhos do Porto, Royal Oporto Wine Company, Companhia Velha, and the Old Company, Oporto, Portugal. Wines. Serial Nos. 339,023–5; July 25. Class 47.

Companhia Velha. (See Companhia Geral da Agricultura das Vinhas do Alto Douro.)

Consolidated Industries, Inc., Dallas, Tex. Cleaning liquids for dry cleaning. Serial No. 338,075; July 25. Class 4.

Continental Blade Corporation, Brooklyn, N. Y. Razors and blades. Serial No. 338,512; July 25. Class 23.

Continental Blade Corporation, Brooklyn, N. Y. Razors and blades. Serial No. 338,767–9; July 25. Class 23.

Corso, Paul A., Chicago, Ill. Shoes. Serial No. 337,839; July 25. Class 39.

Crescent Products Company, not Inc., Chicago, Ill. Metal polish. Serial No. 338,184; July 25. Class 4.

Cresta Blanca Company, San Francisco, Calif. Malt beverages. Serial No. 338,969; July 25. Class 48.

Cuno Engineering Corporation, The, Meriden, Conn. Fluid straining and filtering apparatus, etc. Serial No. 338,216; July 25. Class 23.

Davis & Lawrence Co., New York, N. Y. Vanilla flavoring. Serial No. 337,733; July 25. Class 46.

Day, Charles, & Co. (See Vaughan-Jones, Vivian.)

Dickinson & Co., Chicago and Eureka, Ill. Canned vegetables. Serial No. 338,079; July 25. Class 46.

Diehl Research Laboratories, Ltd., Los Angeles, Calif. Shaving cream. Serial No. 337,579; July 25. Class 4.

Dixie Distributors Incorporated, Ann Arbor, Mich. Gasoline. Serial No. 338,083; July 25. Class 15.

Dobson Engineering Corporation, New York, N. Y. Graph paper. Serial No. 337,722; July 25. Class 37.

Dunville & Co., Limited, Belfast, Northern Ireland. Whisky. Serial No. 336,082; July 25. Class 49.

Dwight Edwards Company, San Francisco, Calif. Coffee. Serial No. 337,777; July 25. Class 46.

Eastern Wax Products, Inc., Brooklyn, N. Y. Wax candles. Serial No. 338,245; July 25. Class 15.

Ex-Cell-O Aircraft & Tool Corporation, Detroit, Mich. Automatic screw machine products. Serial No. 336,526; July 25. Class 23.

Federal Mill, Inc., Lockport, N. Y. Bread. Serial No. 337,740; July 25. Class 46.

Franco-American Baking Co., Los Angeles, Calif. Bread. Serial No. 331,484; July 25. Class 46.

Frank and Company, Milwaukee, Wis. Sausages. Serial No. 333,225; July 25. Class 46.

Fruit Industries, Ltd., Los Angeles, Calif. Wines. Serial No. 338,518; July 25. Class 47.

Fuld Bros., Inc., Baltimore, Md. Automobile top dressing, silver polish, etc. Serial No. 337,183; July 25. Class 4.

Fuld Bros., Inc., Baltimore, Md. Automobile polish, wax, concrete hardener, etc. Serial No. 337,184; July 25. Class 16.

Gellman Bros., Minneapolis, Minn. Household tool for cutting, shredding, fruit, etc. Serial No. 331,333; July 25. Class 23.

Gillette Safety Razor Company, Boston, Mass. Safety razor blades. Serial No. 338,774; July 25. Class 23.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Glass Coffee Brewer Corp., Chicago, Ill. Coffee brewers. Serial No. 338,869; July 25. Class 33.

Golden West Brewing Co., Oakland, Calif. Malt beverages. Serial Nos. 337,916–18; July 25. Class 48.

Goldstein-Wilkins Corporation, New York, N. Y. Silk dress goods in the piece. Serial Nos. 336,432–3; July 25. Class 46.

Gottesman and Company, Incorporated, New York, N. Y. Wood pulp. Serial Nos. 338,603–7; July 25. Class 1.

Gruenbaum, Eugene A., doing business as Tzucat Fruit Farms Corporation, Ravena, N. Y. Preserved fruit confections. Serial No. 337,118; July 25. Class 46.

Haskins Brothers & Company, Omaha, Nebr. Soap. Serial No. 338,835; July 25. Class 4.

Health Food Dairy Products Co. (See Lerner, Samuel S.)

Heise, Dr. Friedrich, G. m. b. H., Berlin-Karlshorst, Germany. Diuretica and cardiaca. Serial No. 335,191; July 25. Class 6.

Heublein, G. F., & Bro., Hartford, Conn. Canned clam chowder. Serial No. 338,567; July 25. Class 46.

Hodson, James H., doing business as Nanpanton Supply Company, Wetaskiwin, Alberto, Canada. Hair restorer and dandruff eradicator. Serial No. 334,011; July 25. Class 6.

Höganäs-Billesholms Aktiebolag, Höganäs, Sweden. Grinding materials. Serial No. 336,907; July 25. Class 4.

Huffaker, Lillian Y., Los Angeles, Calif. Time indicating mechanisms. Serial No. 337,746; July 25. Class 26.

Hull-Dobbs Company, Memphis, Tenn. Liquid cleaning agents. Serial No. 338,089; July 25. Class 4.

Individual Drinking Cup Co., Inc., Easton, Pa. Cups. Serial No. 338,456; July 25. Class 2.

Italian Sugo Co. (See Sherrillo, Domenick.)

Johnson Oil Refining Company, Chicago, Ill. Gasoline. Serial No. 338,495; July 25. Class 15.

Johnson-Stephens & Shinkle Shoe Company, St. Louis, Mo. Shoes. Serial No. 330,371; July 25. Class 39.

Kashins, Max, Co. Inc., New York, N. Y. Bathrobes. Serial No. 338,570; July 25. Class 39.

Kellogg Company, Battle Creek, Mich. Cereal breakfast foods. Serial No. 335 564; July 25. Class 46.

Kelp-A-Malt Laboratories. (See Tuvin, J. H.)

Kelp-Ine Products Corporation of America, Seattle, Wash. Soap. Serial No. 338,193; July 25. Class 4.

Kimball, C. M., Co., Everett, Mass. Washing fluid—disinfectant—bleach. Serial No. 333,733; July 25. Class 6.

King Features Syndicate, Inc., New York, N. Y. Newspaper columns. Serial No. 338,900; July 25. Class 38.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. Serial No. 337,748; July 25. Class 40.

Kramer Brothers, New York, N. Y. Hosiery. Serial No. 337,337; July 25. Class 39.

Larabee Products Company. (See Stevens, F. D., jr.)

Lerner, Samuel S., doing business as Health Food Dairy Products Co., Chicago, Ill. Food product. Serial No. 337,922; July 25. Class 46.

Liberty Leather Corporation, St. Louis, Mo. Leather soles for shoes. Serial No. 327,621; July 25. Class 39.

Life Magazine, Inc., New York, N. Y. Magazine. Serial No. 338,698; July 25. Class 38.

Luzerne Products Company, The, Hunlock Creek, Pa. Medicinal preparation. Serial No. 338,324; July 25. Class 6.

Mackinlay, Chas. & Company, Leith, Scotland. Whisky. Serial No. 338,527; July 25. Class 49.

Maney Milling Company, Omaha, Nebr. Wheat flour. Serial No. 336,990; July 25. Class 46.

Manikin Products. (See Silberman, Madeline.)

Markow Blood Purifier Co. (See Markowitz, Louis.)

Markowitz, Louis, doing business as Markow Blood Purifier Co., San Diego, Calif. Canned soup. Serial No. 338,325; July 25. Class 46.

Marotta & Cella, Brooklyn, N. Y. Olive oil. Serial No. 337,302; July 25. Class 46.

Marshall Field & Company, Chicago, Ill. Dresses, suits, jackets, etc. Serial No. 338,612; July 25. Class 39.

Masland, C. H., & Sons, Inc., Carlisle, Pa. Rubber backs for rugs. Serial No. 338,053; July 25. Class 50.

McGrew, Orville V., doing business as McGrew Paint & Asphalt Co., Chicago, Ill. Asphalt sealing and waterproofing compounds. Serial No. 331,056; July 25. Class 12.

Methodist Book Concern, Inc., The, doing business as The Abingdon Press, Inc., New York, N. Y. Periodical. Serial No. 324,262; July 25. Class 38.

Mid-Continent Mud Company, Houston, Tex. Raw materials used as a suspensoid in oil well drilling. Serial No. 338,101; July 25. Class 1.

Minute Safety Razor Corporation, Newark, N. J. Safety razors and blades. Serial No. 338,748–50; July 25. Class 23.

Molaska Products, Inc., Cleveland, Ohio. Cane molasses. Serial No. 338,055; July 25. Class 46.

Molgedei, Wilhelm, doing business as Vibra Chain Company, New York, N. Y. Necklaces, bracelets, etc. Serial No. 337,963; July 25. Class 28.

Mont-Rouge Wine Company, San Francisco, Calif. Wines. Serial No. 338,983; July 25. Class 47.

Moorhead Knitting Co., Inc., Harrisburg, Pa. Socks. Serial No. 331,313; July 25. Class 39.

Motor Fuel Company, Habana, Cuba. Liquid motor fuel. Serial No. 337,641; July 25. Class 15.

N. V. Beiersch-Bierbrouwerij "de Amstel" Amsterdam, Netherlands. Beer. Serial No. 338,425; July 25. Class 48.

Nanpanton Supply Company. (See Hodson, James H.)

National Licorice Company, Brooklyn, N. Y. Licorice candy. Serial No. 337,926; July 25. Class 46.

New Jersey Brush Manufacturing Co., Inc., Newton, N. J. Brushes. Serial No. 336,332; July 25. Class 29.

Nifty Products, Chicago, Ill. Game. Serial No. 338,535; July 25. Class 22.

Northern Sea Food Company, Petersburg and Cordova, Alaska. Canned shell fish. Serial No. 334,157; July 25. Class 46.

Nueva Fabrica de Hielo, S. A., Habana, Cuba. Malt beverages. Serial No. 337,067; July 25. Class 48.

Old Company, The. (See Companhia Geral Da Agricultura das Vinhas do Alto Douro.)

Parke, Davis & Company, Detroit, Mich. Preparation for chill-proofing beer, etc. Serial No. 338,335; July 25. Class 48.

Parke, Davis & Company, Detroit, Mich. Digestant and antacid. Serial No. 338,336; July 25. Class 6.

Paulette Laboratories, Inc., Brooklyn, N. Y. Pomades, hair tonics, hair oils, etc. Serial No. 329,866; July 25. Class 6.

Pine-Odeur Products Company. (See Cohn, Morris.)

Print-O-Pak Corporation, Buffalo, N. Y. Apparatus for issuing gummed strip paper. Serial No. 338,110; July 25. Class 37.

Pure Milk Association, Chicago, Ill. Milk. Serial No. 328,016; July 25. Class 46.

Quill Ink Corporation, New York, N. Y. Writing ink. Serial No. 338,845; July 25. Class 11.

Ray & Company, Dallas, Tex. Puzzle. Serial No. 336,878; July 25. Class 22.

Real Companhia Dos Vinhos Do Porto. (See Companhia Geral Da Agricultura Das Vinhas Do Alto Douro.)

Reingold Hosiery Co., New York, N. Y. Hosiery. Serial No. 338,540; July 25. Class 39.

Retail Department Stores of America, Inc., New York, N. Y. Underwear. Serial No. 337,644; July 25. Class 39.

Riverside Brewing Company, Chicago and Riverside, Ill. Malt beverages. Serial No. 337,091; July 25. Class 48.

Roth, Otto, Inc., Newark, N. J. Safety razor blades. Serial No. 338,620; July 25. Class 23.

Royal Oporto Wine Company. (See Companhia Geral da Agricultura das Vinhas do Alto Douro.)

Royles Laboratories. (See Briede, Lester G.)

St. Clair Rubber Co., Marysville and Detroit, Mich. Liquid surface protection coatings. Serial No. 335,887; July 25. Class 6.

Sayles Finishing Plants, Inc., Saylesville, R. I. Piece goods of cotton, linen, etc. Serial No. 335,689; July 25. Class 42.

Securities Research Corporation, Boston, Mass. Financial charts. Serial No. 338,542; July 25. Class 38.

Securotex Company, Boston, Mass. Sanitary pad holders. Serial No. 337,891; July 25. Class 44.

Shapiro, Sam, New York, N. Y. Hosiery. Serial No. 338,666; July 25. Class 39.

Sheehy, Frances, Portland, Oreg. Symphonic theme sheet. Serial No. 334,898; July 25. Class 38.

Shelby Salesbook Company, The, Shelby, Ohio. Slip or paper aligning board. Serial No. 312,738; July 25. Class 26.

Sherrillo, Domenick, doing business as Italian Sugo Co., St. Louis, Mo. Sauce for spaghetti, etc. Serial No. 335,553; July 25. Class 46.

Silberman, Madeline, doing business as Manikin Products, New York, N. Y. Laxative beverage. Serial No. 338,506; July 25. Class 6.

Simons, Ernest, Mfg. Company, Port Chester, N. Y. Sheets, pillowcases, etc. Serial No. 338,466; July 25. Class 42.

Snuggle Rug Co., Goshen, Ind. Bath robes. Serial No. 338,760; July 25. Class 39.

Société À Réponsabilité Limitée, Gaby-Mono, Paris, France. Ladies' hats. Serial No. 337,489; July 25. Class 39.

Sorbex Company, The, Tulsa, Okla. Medicinal preparations. Serial No. 338,263; July 25. Class 6.

Southern Fruit Products Company, Savannah, Ga. Syrup for making nonalcoholic maltless beverages. Serial No. 338,164; July 25. Class 45.

Stanco Incorporated, Wilmington, Del., and New York, N. Y. Paste for polishing painted surfaces. Serial No. 338,948; July 25. Class 16.

Standard Fuel Engineering Company, Detroit, Mich. Refractory material. Serial No. 335,076; July 25. Class 12.

Standard Varnish Works, New York, N. Y. Paint enamels. Serial No. 338,623; July 25. Class 16.

Stevens, F. D., jr., doing business as Larabee Products Company, Wichita, Kans. Leather dressing. Serial No. 336,917; July 25. Class 4.

Stone-Tarlow Co. Inc., Brockton, Mass. Shoes. Serial No. 337,897; July 25. Class 39.

Sudite Chemical Manufacturing Corp., Charlotte, N. C. Soap preparation. Serial No. 338,567; July 25. Class 4.

Sugarland Products Company. (See Wilson, Agnes A.)

Sullivan, Hugh C., Frostproof, Fla. Canned fruits. Serial No. 315,069; July 25. Class 46.

Superior Piston Ring Co., Inc., Detroit, Mich. Oil rings. Serial No. 337,625; July 25. Class 35.

Supreme Ink Company. (See Anderson, Oscar O.)

Swan-Finch Oil Corporation, New York, N. Y. Lubricating oils and greases. Serial Nos. 337,097–8; July 25. Class 15.

Taylor-Wharton Iron & Steel Company, High Bridge, N. J. Carbon and alloy steels. Serial No. 338,761; July 25. Class 14.

Theonett & Co., Inc., Chicago, Ill. Champagnes and wines. Serial No. 338,234; July 25. Class 47.

Theonett & Co., Inc., Chicago, Ill. Malt beverages. Serial No. 338,235; July 25. Class 48.

Tip Top Razor Blade Company, New York, N. Y. Razor blades. Serial No. 338,671; July 25. Class 23.

Tollemache's Breweries, Limited, Ipswich, England. Ales. Serial No. 338,952; July 25. Class 48.

Tribuno, Mario P., New York, N. Y. Malt beverages. Serial No. 338,062; July 25. Class 48.

Trojan Hosiery Mills, Inc., Indianapolis, Ind. Hosiery. Serial No. 339,049; July 25. Class 39.

Trojan Hosiery Mills, Inc., Indianapolis, Ind. Hosiery. Serial No. 339,050; July 25. Class 39.

Tuvin, J. H. doing business as Kelp-A-Malt Laboratories, New York, N. Y. Tonic preparation. Serial No. 338,171; July 25. Class 6.

Two-Books Magazines, Inc., New York, N. Y. Story Magazine. Serial No. 337,647; July 25. Class 38.

Tzucat Fruit Farms Corporation. (See Gruenbaum, Eugene A.)

Ultrex Products Corporation, Boston, Mass. Alkali cleansing compound. Serial No. 338,294; July 25. Class 4.

United Hosiery Mills Corporation, Chattanooga, Tenn. Hosiery. Serial No. 338,798; July 25. Class 39.

United Packing Corporation, Los Angeles, Calif. Canned fruits and vegetables. Serial No. 338,383; July 25. Class 46.

Universal Seal Cap Corporation, Hamden, Conn. Bottle caps. Serial No. 338,953; July 25. Class 50.

Vaughan-Jones, Vivian, doing business as Edward Vaughan-Jones, as Charles Day & Co., and as E. Vaughan-Jones, London, England. Spirits. Serial No. 335,588; July 25. Class 49.

Vibra Chain Company. (See Molgedei, Wilhelm.)

Virginia Dare Extract Company, Inc., Brooklyn, N. Y. Wines. Serial No. 337,810; July 25. Class 47.

Viviano Macaroni Mfg. Corp., Chicago, Ill. Alimentary pastes. Serial No. 337,812; July 25. Class 46.

Vulcan Corporation, Portsmouth, Ohio. Lasts. Serial No. 337,899; July 25. Class 50.

Wallace & Morley Company, Bay Port, Mich. Dry beans. Serial No. 337,629; July 25. Class 46.

Warren Soap Manufacturing Company, Inc., The, Cambridge, Mass. Emulsion used in laundering. Serial No. 338,673; July 25. Class 4.

Weld-Tite Manufacturing Company, Inc., Camden, N. J. Motor seal, radiator seal, and boiler compound. Serial No. 338,297; July 25. Class 6.

Western Oil and Fuel Company, The, Minneapolis, Minn. Gasoline, kerosene, etc. Serial No. 331,451; July 25. Class 15.

West Virginia Pulp & Paper Company, New York, N. Y. Printing paper. Serial No. 336,100; July 25. Class 37.

Willsher, George, Dundee-Angus, Scotland. Whisky. Serial No. 338,588; July 25. Class 49.

Wilson, Agnes A., doing business as Sugarland Products Company, San Antonio, Tex. Soap. Serial No. 338,707; July 25. Class 4.

Young, L. A., Company, The, Detroit, Mich. Golf clubs. Serial Nos. 338,800–3; July 25. Class 22.

LIST OF REGISTRANTS OF TRADE-MARKS

Acme Underwear Co. Inc., New York, N. Y. Pajamas. 304,931; July 25; Serial No. 335,915; published May 16, 1933. Class 39.

Ad-Ez Company, The, Cleveland, Ohio. Skin lubricating preparation. 305,042; July 25; Serial No. 319,054; published June 21, 1932. Class 6.

Aeolian American Corporation. (See Fischer, J. & C., assignor.)

Alaska Pacific Salmon Corporation. (See Deep Sea Salmon Company).

Albright, John H., Hanover, Pa. Hair tonic. 304,958; July 25; Serial No. 335,556; published May 9, 1933. Class 6.

American Felt Company, Boston, Mass., to American Felt Company, New York, N. Y. Felt in the piece. 94,413; renewed Dec. 9, 1933.

American Manufacturing Company, Boston, Mass., and New York, N. Y., to American Manufacturing Company, Brooklyn, N. Y. Sash-cord from vegetable fibers. 91,927; renewed June 10, 1933.

American Manufacturing Company, Boston, Mass., and New York, N. Y., to American Manufacturing Company, Brooklyn, N. Y. Clothes-lines from vegetable fiber. 91,931; renewed June 10, 1933.

Ansehl, Benjamin, doing business as Benjamin Ansehl Co., St. Louis, Mo. Hand lotions, perfumes, creams, etc. 304,978; July 25; Serial No. 334,900; published May 9, 1933. Class 6.

Armand Company, The, Des Moines, Iowa. Cleansing cream, cold cream, astringent, rouge, etc. 304,999; July 25; Serial No. 325,452; published May 2, 1933. Class 6.

Asro Export Co., Inc., Cleveland, Ohio. Plastic and liquid waterproofing coatings. 305,047; July 25; Serial No. 333,879; published May 2, 1933. Class 12.

B. V. D. Company, Inc., The, Baltimore, Md. Shirts. 304,930; July 25; Serial No. 335,760; published May 16, 1933. Class 39.

B. V. D. Company, Inc., The, Baltimore, Md. Underwear. 304,980; July 25; Serial No. 336,067; published May 16, 1933. Class 39.

Bangor Slate Association, Inc., Bangor, Pa. Roofing slate. 305,048; July 25; Serial No. 333,670; published May 2, 1933. Class 12.

Barbasol Company, The, Indianapolis, Ind. Razor blades. 304,988; July 25; Serial No. 332,830; published Jan. 24, 1933. Class 23.

Barber Asphalt Paving Co., The, to The Barber Asphalt Company, Philadelphia, Pa., by change of name. Asphaltic cements. 41,529; renewed Nov. 24, 1933.

Barnes, Henry K., Company, Boston, Mass. Leather belting. 305,065; July 25. Class 35.

Beattie Manufacturing Co., The, Cohoes, N. Y. Knitting machinery. 305,054; July 25; Serial No. 335,545; published May 16, 1933. Class 23.

Benedictus, Edouard, Paris, France, assignor, by mesne assignments, to Triplex Corporation, Pittsburgh, Pa. Reinforced glass. 93,153; renewed Aug. 26, 1933.

Berghoff Brewing Corporation, Fort Wayne, Ind. Malt beverage. 304,970; July 25; Serial No. 336,597; published May 16, 1933. Class 48.

Bird, J. A. & W., & Co., Boston, Mass., assignor, by mesne assignments, to The Flintkote Corporation, New York, N. Y. Boots and shoes. 40,364; renewed May 12, 1933.

Bloom, Samuel S., Philadelphia, Pa. Fortune telling game. 305,031; July 25; Serial No. 335,710; published May 16, 1933. Class 22.

Bonfigt, Franz, Aachen, Germany, assignor to Bonfigt & Co., Cologne-on-the-Rhine, Germany. Fret saws for gold and silver smiths. 93,158; renewed Aug. 26, 1933.

Bosworth, Harry J., Company, Chicago, Ill. Dental impression material. 305,036; July 25; Serial No. 335,443; published May 16, 1933. Class 44.

Branham, Alfred H., receiver for Murray Rubber Company, Trenton, N. J. Lubricating oil. 305,052–3; July 25; Serial Nos. 335,711–12; published May 9, 1933. Class 15.

Brevoort, Keturah, Fort Worth, Tex. Medical preparation. 304,991; July 25; Serial No. 331,957; published May 2, 1933. Class 6.

Brinser, Solomon C., to John R. Brinser, doing business as S. C. Brinser's Sons, Middletown, Pa., successor. Cornmeal. 94,352; renewed Dec. 2, 1933.

Bristol-Myers Company, New York, N. Y. Toothpaste. 305,023; July 25; Serial No. 335,186; published May 2, 1933. Class 6.

Burgess Battery Company, Madison, Wis. Mufflers and silencers, compressors, blowers, etc. 305,063; July 25. Class 23.

Cadolle Frères, Société à Responsibilité Limitée, Paris, France. Perfume, toilet water, powder, etc. 304,959; July 25; Serial No. 335,562; published May 9, 1933. Class 6.

Capudine Chemical Company, The, Raleigh, N. C. Medicinal preparation. 305,008; July 25; Serial No. 335,016; published May 9, 1933. Class 6.

Carlova, Inc., New York and Binghamton, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. 304,986; July 25; Serial No. 332,225; published May 2, 1933. Class 6.

Carrier-York Corporation, Philadelphia, Pa. Unit apparatus for conditioning air. 305,070; July 25. Class 34.

Celanese Corporation of America, New York, N. Y. Underwear. 304,942; July 25; Serial No. 335,347; published May 2, 1933. Class 39.

Central Pharmacal Company, The, Seymour, Ind. Medicinal preparation for syphilis. 305,026; July 25; Serial No. 335,190; published May 2, 1933. Class 6.

Chain Belt Company, Milwaukee, Wis. Pumps. 304,962; July 25; Serial No. 336,032; published May 16, 1933. Class 23.

Champlin, Arthur D., Providence, R. I. Carbonated waters. 305,035; July 25; Serial No. 335,540; published May 16, 1933. Class 45.

Chemical Foundation, Incorporated, The. (See Chemische Fabrik Altherzberg, Alwin Nieske, assignor.)

Chemical Foundation, Incorporated, The. (See Kalle & Co., Aktiengesellschaft.)

Chemical Foundation, Incorporated, The. (See Schneider, Robert, assignor.)

Chemical Foundation, Incorporated, The. (See Teichgraeber, Theodor, assignor.)

Chemische Fabrik Altherzberg, Alwin Nieske, Dresden, and Dresden-Loschwitz, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Ointment and vulnerary powder. 93,230; renewed Aug. 26, 1933.

Clarinda Poultry, Butter & Egg Co., Clarinda, Iowa, assignor to Swift and Company, Chicago, Ill. Poultry. 41,451; renewed Nov. 10, 1933.

Collegiate Garment Co., New York, N. Y. Wearing apparel. 305,064; July 25. Class 39.

Complexion Companion Company. (See Malone, Edwin W.)

Cook, H. C., Company, The, Ansonia, Conn. Nail clippers. 305,027; July 25; Serial No. 335,956; published May 16, 1933. Class 44.

Corkran, Hill & Co., as assignee of W. Ewing Harvey, assignor, by mesne assignments, to Corkran, Hill & Company, Inc., Baltimore, Md. Cheese. 93,901; renewed Oct. 28, 1933.

Daimler-Benz Aktiengesellschaft. (See Daimler-Motoren-Gesellschaft.)

Daimler-Motoren-Gesellschaft, by change of name to Daimler-Benz Aktiengesellschaft, Unterturkheim near Stuttgart, Germany. Machinery castings and forgings. 91,855; renewed June 3, 1933.

Daimler-Motoren-Gesellschaft, by change of name to Daimler-Benz Aktiengesellschaft, Unterturkheim near Stuttgart, Germany. Metal castings and forgings. 91,856; renewed June 3, 1933.

Daimler-Motoren-Gesellschaft, by change of name to Daimler- Benz Aktiengesellschaft, Unterturkheim, near Stuttgart, Germany. Furniture and upholstery. 91,948; renewed June 10, 1933.

Daimler-Motoren-Gesellschaft, by change of name to Daimler-Benz Aktiengesellschaft, Unterturkheim near Stuttgart, Germany. Heating, lighting, and ventilating apparatus. 91,949; renewed June 10, 1933.

Daimler-Motoren-Gesellschaft, by change of name to Daimler-Benz Aktiengesellschaft, Unterturkheim near Stuttgart, Germany. Clothing. 91,950; renewed June 10, 1933.

Daimler-Motoren-Gesellschaft, by change of name to Daimler-Benz Aktiengesellschaft, Unterturkheim near Stuttgart, Germany. Furniture and upholstery. 91,951; renewed June 10, 1933.

Daimler-Motoren-Gesellschaft, by change of name to Daimler-Benz Aktiengesellschaft, Unterturkheim near Stuttgart, Germany. Heating, lighting, and ventilating apparatus. 91,952; renewed June 10, 1933.

Daimler-Motoren-Gesellschaft, by change of name to Daimler-Benz Aktiengesellschaft, Unterturkheim, near Stuttgart, Germany. Cutlery, machinery, tools, etc. 93,081; renewed Aug. 19, 1933.

Daroff, H., & Sons, Inc., Philadelphia, Pa. Men's suits. 304,925–6; July 25; Serial Nos. 335,666–7; published May 16, 1933. Class 39.

Deep Sea Salmon Company, Inc., to Alaska Pacific Salmon Corporation, Seattle, Wash., successor. Canned salmon. 92,750; renewed July 29, 1933.

De Giorgi, Joseph H., doing business as The Unguol Pharmacal Co., Syracuse, N. Y. Pharmaceutical preparation. 305,000; July 25; Serial No. 334,388; published May 2, 1933. Class 6.

De Giorgi, Joseph H., doing business as The Unguol Pharmacal Co., Syracuse, N. Y. Pharmaceutical preparation. 305,012; July 25; Serial No. 334,380; published May 2, 1933. Class 6.

Diaz, Carlos J., doing business as Etna Chemical Company, New York, N. Y. Liquid used for the treatment of corns, bunions, callouses. 304,924; July 25; Serial No. 335,632; published May 9, 1933. Class 6.

Drake, Alfred E., doing business as Erb-o-Des Products Co., Los Angeles, Calif. Medicinal preparations. 305,018; July 25; Serial No. 333,760; published May 9, 1933. Class 6.

Du Bois Brewing Co., Du Bois, Pa. Malt beverages. 305,016; July 25; Serial No. 334,146; published May 16, 1933. Class 48.

Editor & Publisher Company, The, New York, N. Y. Newspapers. 94,168; renewed Nov. 11, 1933.

Editor & Publisher Company, The, New York, N. Y. Newspapers. 94,433; renewed Dec. 9, 1933.

Enterprise Aluminum Company, The, Massillon, Ohio. Base metal egg cookers. 305,028; July 25; Serial No. 335,904; published May 16, 1933. Class 13.

Enterprise Manufacturing Company, The. (See Lowe, William T. J., assignor.)

Erb-o-Des Products Co. (See Drake, Alfred E.)

Eric Company, Inc., New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 304,935; July 25; Serial No. 335,193; published May 2, 1933. Class 6.

Erie Meter Systems, Incorporated, Erie, Pa. Show-cases and cabinets. 305,007; July 25; Serial No. 336,039; published May 16, 1933. Class 32.

Ernecke & Salmstein Co., Chicago, Ill. Adhesive pastes. 94,358; renewed Dec. 2, 1933.

Etna Chemical Company. (See Diaz, Carlos J.)

Fischer, J. & C., assignor, by mesne assignments, to Aeolian American Corporation, New York, N. Y. Pianofortes, pianos, etc. 94,364; renewed Dec. 2, 1933.

Fli-Back Company. (See Gibson, Rozena M.)

Flintkote Corporation, The. (See Bird, J. A. & W., Co., assignors.)

Form-A-Bella Laboratory. (See Veazey, Alice V.)

Frank, Jacob, Mercantile Co., St. Louis, Mo. Yarns. 94,519; renewed Dec. 9, 1933.

Frank, Jacob, Mercantile Co., St. Louis, Mo. Articles to be used in embroidering. 94,520; renewed Dec. 9, 1933.

Furst-McNess Company, Freeport, Ill. Insecticides. 304,900; July 25; Serial No. 335,580; published May 9, 1933. Class 6.

Garfinkel & Ritter, New York, N. Y. Ladies' undergarments. 304,944; July 25; Serial No. 335,396; published May 9, 1933. Class 39.

Garfinkel & Ritter, New York, N. Y. Ladies' undergarments. 305,001; July 25; Serial No. 334,357; published May 9, 1933. Class 39.

Geigy Company, Inc., New York, N. Y. Dyes and chemicals. 304,961; July 25; Serial No. 335,612; published May 9, 1933. Class 6.

Gibson, Rozena M., doing business as Fli-Back Company, High Point, N. C. Toy. 304,964; July 25. Class 22.

Gibson, Rozena M., doing business as Sock-It Company, High Point, N. C. Toy. 304,969; July 25; Serial No. 336,611; published May 16, 1933. Class 22.

Glass, Maude, New Orleans, La. Liquid type cleaner. 305,062; July 25. Class 4.

Glidden Company, The, Cleveland, Ohio. Synthetic casein. 305,041; July 25; Serial No. 321,281; published Mar. 1, 1932. Class 6.

Globe Automatic Sprinkler Company, Philadelphia, Pa. Automatic sprinklers, waterflow alarm valves and dry pipe valves, etc. 304,990; July 25; Serial No. 332,145; published May 16, 1933. Class 13.

Göbel, A., Brooklyn, to Adolf Göbel, Inc., New York, N. Y., successor. Sausage. 92,064; renewed June 17, 1933.

Golco Sanitary System, Inc., Philadelphia, Pa. Wall soap dishes, grab rails, tooth brush holders, etc. 305,040; July 25; Serial No. 323,240; published May 16, 1933. Class 13.

Goldstein, Isidore M., Jamaica, N. Y. Internal medicine. 304,932; July 25; Serial No. 335,024; published May 2, 1933. Class 6.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Solid pneumatic tires. 41,344; renewed Oct. 20, 1933.

Guzy and Hummel, New York, N. Y. Liquid wax composition. 304,951; July 25; Serial No. 335,440; published May 9, 1933. Class 6.

Haarmann-de Laire-Schaefer Co., assignor to Maywood Chemical Works, Maywood, N. J. Perfumery and flavoring products. 41,630; renewed Dec. 8, 1933.

Haarmann-de Laire Schaefer Co., assignor to Maywood Chemical Works, Maywood, N. J. Perfumery. 41,631; renewed Dec. 8, 1933.

Hamish, Harry A., doing business as Mineral Concentrates Company, Portland, Oreg. Mineral preparation. 305,010; July 25; Serial No. 334,462; published May 9, 1933. Class 6.

Harron Hosiery Company, Philadelphia, Pa. Hosiery. 304,927; July 25; Serial No. 335,779; published May 16, 1933. Class 39.

Harvey, W. Ewing. (See Corkran, Hill & Co.)

Häsemann, Georg, Bremen, Germany. Medicine. 304,992; July 25; Serial No. 331,616; published May 2, 1933. Class 6.

Hecker-Jones-Jewell Milling Company, assignor to Standard Milling Company, New York, N. Y. Wheat flour. 94,375; renewed Dec. 2, 1933.

Herbst Baking Corporation, New York, N. Y. Bread. 305,060; July 25. Class 46.

Herz, Alexander, assignor to Hygeia Antiseptic Toothpick Company, Incorporated, New York, N. Y. Toothpicks. 94,082; renewed Nov. 4, 1933.

Hirtenstein, Edward, New York, N. Y. Woolen, silk, cotton, etc. piece goods. 305,009; July 25; Serial No. 334,563; published May 2, 1933. Class 42.

Hoffman, Nathan, doing business as The Hoffman Engineering Co., New York, N. Y. Amplifying unit. 305,058; July 25; Serial No. 336,006; published May 9, 1933. Class 21.

Hydrox Chemical Co., New York, N., to Hydrox Chemical Company of Illinois, Chicago, Ill., successor. Peroxid of hydrogen. 93,356; renewed Sept. 9, 1933.

Hygeia Antiseptic Toothpick Company. (See Herz, Alexander, assignor.)

Ilford, Limited, Ilford, England. Sensitised cinematographic and photographic films. 305,002; July 25; Serial No. 333,991; published Mar. 28, 1933. Class 26.

Jenkins Bros., New York, N. Y. Plumbing and steam fitting valves and valve parts. 305,020–1; July 25; Serial Nos. 335,323–4; published May 16, 1933. Class 13.

Jenter Exhibits, Inc., New York, N. Y. Pictures, models, and advertising indicia. 304,995; July 25; Serial No. 327,540; published May 16, 1933. Class 50.

Jönköpings och Vulcans Tändsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 304,967; July 25; Serial No. 336,650; published May 16, 1933. Class 9.

Kaiser, Jacob, Mfg. Co., St. Louis, Mo. Mattresses and box-springs. 92,680; renewed July 22, 1933.

Kaiserbrauerei Beck & Co., Kommanditgesellschaft Auf Aktien, Bremen, Germany. Beer. 305,067; July 25. Class 48.

Kalle & Co., Aktiengesellschaft. Biebrich, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del. Preparation for the treatment of wounds. 92,992; renewed Aug. 12, 1933.

Keasbey & Mattison Company, Ambler, Pa. Brake linings. 304,933; July 25; Serial No. 336,088; published May 16, 1933. Class 35.

Kelp-O-l Laboratories, Inc., The, Los Angeles, Calif. Lactic acid tablet. 304,953; July 25; Serial No. 335,509; published May 9, 1933. Class 6.

Kidde, Walter, & Company, Inc., New York, N. Y. Fire extinguishing apparatus. 304,981; July 25; Serial No. 336,222; published May 16, 1933. Class 23.

Kopke, C. N., & Co. Limited, London, England. Port wine. 304,968; July 25; Serial No. 336,652; published May 16, 1933. Class 47.

Koreh, S., Company, The, Cleveland, Ohio. Ladies' sport garments. 304,939; July 25; Serial No. 335,279; published May 9, 1933. Class 39.

Lansburgh & Bro., Washington, D. C. Mattresses. 304,972; July 25; Serial No. 336,159; published May 16, 1933. Class 32.

Lavatone Chemical Company, Seattle, Wash. Chemical preparation. 304,946; July 25; Serial No. 335,421; published May 9, 1933. Class 6.

Lederer, Hortense V., doing business as The Lucky Charm Studios, Chicago, Ill. Toilet accessories. 305,017; July 25; Serial No. 334,064; published May 2, 1933. Class 6.

Lesma Products Co. Inc., New York, N. Y. Hair tonics, bay rum, skin cream, etc. 305,014; July 25; Serial No. 334,318; published May 9, 1933. Class 6.

Lethelin Products Company, Manhasset, N. Y. Fumigant. 304,954; July 25; Serial No. 335,466; published May 9, 1933. Class 6.

Levison, Betty, Undergarment Co., Inc., New York, N. Y. Dance sets, chemises, panties, etc. 304,984; July 25; Serial No. 336,010; published May 16, 1933. Class 39.

Levy, Ben, Co., Boston, Mass. Face powder. 305,039; July 25; Serial No. 319,253; published May 2, 1933. Class 6.

Levy, Maxwell, to Max Levy and Company, Chicago, Ill. Broken glass. 94,459; renewed Dec. 9, 1933.

Lockous Display Appliance Corporation, The, Jersey City, N. J. Appliances for use in supporting and maintaining draped crepe paper and the like for window display. 304,993; July 25; Serial No. 330,875; published May 16, 1933. Class 50.

Loeser, Frederick, & Co., Inc., Brooklyn, N. Y. Men's clothing. 304,921; July 25; Serial No. 335,618; published May 16, 1933. Class 39.

Lombardo, A., & Son, Baltimore, Md. Hair tonics. 305,024; July 25; Serial No. 335,166; published May 2, 1933. Class 6.

Lowe, William T. J., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Spoon fishing-bait. 94,006; renewed Nov. 4, 1933.

Lubal, Inc., Columbus, Ohio. Top-cylinder lubricant. 305,043; July 25; Serial No. 318,122; published May 9, 1933. Class 15.

Lucky Charm Studios, The. (See Lederer, Hortense V.)

Macy, R. H., & Co., Inc., New York, N. Y. Dresses, suits, and blouses. 304,957; July 25; Serial No. 335,541; published May 16, 1933. Class 39.

Mailometer Company, Detroit, Mich., assignor to Pitney-Bowes Postage Meter Company, Stamford, Conn. Sealing and stamping machines, etc. 93,103; renewed Aug. 19, 1933.

Makransky, S., and Sons, Inc., Philadelphia, Pa. Suits, overcoats, and topcoats. 304,937; July 25; Serial No. 336,225; published May 16, 1933. Class 39.

Malone, Edwin W., doing business as Complexion Companion Company, Los Angeles, Calif. Astringents and medicated washes or lotions. 305,038; July 25; Serial No. 324,388; published May 9, 1933. Class 6.

Mandleberg, J., & Company Limited, Manchester, England. Waterproofed textile fabrics. 304,987; July 25; Serial No. 332,500; published May 16, 1933. Class 50.

Manlove, S., & Sons Limited, Manchester, England. Sewing-cotton on spools or reels. 93,001–2; renewed Aug. 12, 1933.

Marek, Theresa C., Allentown, Pa. Medicinal preparation. 304,977; July 25; Serial No. 334,881; published May 2, 1933. Class 6.

Markwell Stamp Co., Greenfield, Mass. Steel stamps and metal marking devices. 304,985; July 25; Serial No. 332,194; published Feb. 7, 1933. Class 23.

Maywood Chemical Works. (See Haarmann-de-Laire-Schaefer Co., assignor.)

Mellins & Mellins, Inc., Brooklyn, N. Y. Dresses, pajamas, and bathrobes. 304,933; July 25; Serial No. 323,668; published Mar. 22, 1932. Class 39.

Metro-Oil, Inc., St. Louis, Mo. Antiseptic preparation for the treatment of the hair and scalp. 304,955; July 25; Serial No. 335,516; published May 9, 1933. Class 6.

Metz, H. A., & Co., Inc., New York, N. Y. Chemical preparations. 305,940; July 25; Serial No. 335,282; published May 2, 1933. Class 6.

Mine & Smelter Supply Company, The, Denver, Colo., and New York, N. Y. Machines, cutlery and tools. 94,194; renewed Nov. 11, 1933.

Mineral Concentrated Company. (See Hamish, Harry A.)

Monaco, Anthony J., Youngstown, Ohio. Maltless beverage. 305,054; July 25; Serial No. 335,729; published May 2, 1933. Class 45.

Moussec Limited, London, England. Wines. 304,963; July 25; Serial No. 336,510; published May 16, 1933. Class 47.

Murray Rubber Company. (See Branham, Alfred H., receiver.)

National Tube Company, Pittsburgh, Pa. Pipes, tubes, and casings. 94,196; renewed Nov. 11, 1933.

National Tube Company, Pittsburgh, Pa. Pipes, tubes, and casings. 94,392; renewed Dec. 2, 1933.

National Tube Company, Pittsburgh, Pa. Pipe. 304,966; July 25; Serial No. 336,659; published May 16, 1933. Class 13.

National Washboard Company, Chicago, Ill. Washboards. 305,030; July 25; Serial No. 335,787; published May 16, 1933. Class 24.

Natura, Inc., Seattle, Wash. Cosmetics. 304,979; July 25; Serial No. 334,926; published May 9, 1933. Class 6.

Oppenheim, Collins & Co. Inc., Wilmington, Del., New York, Brooklyn, and Buffalo, N. Y., and Philadelphia and Pittsburgh, Pa. Hosiery. 305,069; July 25. Class 39.

Osten Chemical Corporation, New York, N. Y. Chemical in crystal form. 304,952; July 25; Serial No. 335,461; published May 9, 1933. Class 6.

Parker Wire Goods Company, Worcester, Mass. Racks for glass, etc. 305,068; July 25. Class 32.

Pearl, Edward, Philadelphia, Pa. Bathtubs, bathtub fittings and connections, water closets, etc. 305,037; July 25; Serial No. 335,403; published May 16, 1933. Class 13.

Penn Metal Company, Boston, Mass. Metal shingles, laths, corners etc. 305,044; July 25; Serial No. 332,383; published May 2, 1933. Class 12.

Pitney-Bowes Postage Meter Company. (See Mailometer Company.)

Procter & Gamble Company, The, Cincinnati, Ohio. Red oil. 304,996; July 25; Serial No. 327,287; published May 2, 1933. Class 6.

Pure Oil Company, The, Chicago, Ill. Petroleum products. 305,057; July 25; Serial No. 336,052; published May 9, 1933. Class 15.

Radumac Mineral Co. (See Yoder, Albert.)

Raleigh Haberdasher, Inc., Washington, D. C. Suits, overcoats, and topcoats. 304,928; July 25; Serial No. 335,835; published May 16, 1933. Class 39.

Real Silk Hosiery Mills, Inc., Indianapolis, Ind. Hosiery, lingerie, etc. 304,934; July 25; Serial No. 335,131; published May 9, 1933. Class 39.

Red Top Steel Post Company, Chicago, Ill. Metal fencing. 305,033; July 25; Serial No. 335,688; published May 16, 1933. Class 13.

Republic Steel Corporation, doing business as Toncan Culvert Manufacturers Association, Youngstown, Ohio. Road and highway guards and parts thereof. 305,049; July 25; Serial No. 334,471; published May 9, 1933. Class 12.

Riddle, Griffith H., assignor, by mesne assignments, to Salsterol Laboratories Inc., Boston, Mass. Concentrated extracts of vegetables. 304,978; July 25; Serial No. 334,627; published May 2, 1933. Class 6.

Rinex Laboratories Company, The, Cleveland, Ohio. Nasal inhalant. 305,011; July 25; Serial No. 334,428; published May 2, 1933. Class 6.

Ro-Lan Company, Portland, Oreg. Hair tonic. 305,015; July 25; Serial No. 334,267; published May 2, 1933. Class 6.

Rosenberg Bros. & Co., to Rosenberg Bros. & Co., San Francisco, Calif., successor. Raisins. 92,581; renewed July 15, 1933.

Royal Manufacturing Company, Los Angeles, Calif. Women's sport dresses, skirts, etc. 304,956; July 25; Serial No. 335,523; published May 9, 1933. Class 39.

Sabini, Louis A., New York, N. Y. Deodorant. 304,943; July 25; Serial No. 335,369; published May 2, 1933. Class 6.

St. Joseph Lead Company, New York, N. Y. Mineral pigments. 305,006; July 25; Serial No. 335,008; published May 2, 1933. Class 6.

Ste. Genevieve Lime & Quarry Company, St. Louis, Mo. Hot lime. 305,045; July 25; Serial No. 332,385; published May 2, 1933. Class 12.

Saks & Company, New York, N. Y. Shirts, pajamas, bath robes, etc. 304,947; July 25; Serial No. 335,426; published May 9, 1933. Class 39.
Salsterol Laboratories Inc. (See Riddle, Griffith H.)
Schalk Chemical Co., Los Angeles, Calif. Dry chemical cleaning compound. 305,066; July 25. Class 4.
Schering Corporation, New York, N. Y. Dental investment material. 305,032; July 25; Serial No. 335,691; published May 16, 1933. Class 44.
Schneider, Robert, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Remedy for tuberculosis, etc. 40,895; renewed Aug. 11, 1933.
Schreibman, Max, New York, N. Y. Ointment. 304,945; July 25; Serial No. 335,404; published May 9, 1933. Class 6.
Scotia Distillers Limited, Glasgow, Scotland. Whisky. 304,971; July 25; Serial No. 336,404; published May 16, 1933. Class 49.
Scott, Rufus W., Company, New York, N. Y. Hosiery. 305,074; July 25. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Oil heating stoves, gasoline lanterns, and gravity and wind actuated roof ventilators. 305,022; July 25; Serial No. 335,302; published May 16, 1933. Class 34.
Segal Safety Razor Corporation, New York, N. Y. Razors and razor blades. 304,998; July 25; Serial No. 325,831; published May 16, 1933. Class 28.
Seneca Food Products Corporation, Utica, N. Y. Beer, ale, Pilsener, etc. 305,005; July 25; Serial No. 333,336; published May 16, 1933. Class 48.
Sheet Metal Specialty Company, Pittsburgh, Pa. Stovepipes, elbows, etc. 92,271; renewed June 24, 1933.
Sherwood Distilling Co., The, to The Sherwood Distilling & Distributing Co., Baltimore, Md., successors. Rye whisky. 92,272–3; renewed June 24, 1933.
Shur-Loc Window Guard Corp., New York, N. Y. Removable guards or bars for preventing access through open doors, windows or the like. 304,994; July 25; Serial No. 329,609; published May 16, 1933. Class 13.
Silverstein, Nellie, doing business as Vi-Vu Products, New York, N. Y. Chemical preparations, hair washes, etc. 304,997; July 25; Serial No. 326,059; published May 9, 1933. Class 6.
Simpson, Orville, Company, The, Cincinnati, Ohio. Mill rolls. 305,071; July 25. Class 23.
Smith, William D., Washington, D. C. Ash trays. 305,072; July 25. Class 8.
Società Boracifera Di Larderello, Florence, Italy. Boric acid, refined borax, etc. 304,938; July 25; Serial No. 333,273; published May 2, 1933. Class 6.
Sock-It Company. (See Gibson, Rozena M.)
Standard Fuel Engineering Company, Detroit, Mich. Refractory material in plastic form. 305,050; July 25; Serial No. 335,077; published Apr. 25, 1933. Class 12.
Standard Milling Company. (See Hecker-Jones-Jewell Milling Company, assignor.)
Standard Oil Company of New Jersey, Wilmington, Del. Lubricating oils. 305,056; July 25; Serial No. 335,747; published May 9, 1933. Class 15.
Stark Bro's. Nurseries & Orchards Co., Louisiana, Mo. Fruit trees, plants, etc. 92,282; renewed June 24, 1933.
Stearns' Electric Paste Company, Inc., Chicago, Ill. Poison. 305,025; July 25; Serial No. 335,039; published May 9, 1933. Class 6.
Storyk Bros., New York, N. Y. Dresses and blouses. 304,922; July 25; Serial No. 335,651; published May 16, 1933. Class 39.
Swellelegants Jig-Cartoon Co., New York, N. Y. Jigsaw puzzles. 305,029; July 25; Serial No. 335,896; published May 16, 1933. Class 22.
Swift and Company. (See Clarinda Poultry, Butter & Egg Co., assignor.)
Sylva-Cross Laboratories, Inc., New York, N. Y. Toilet articles. 304,936; July 25; Serial No. 335,220; published May 2, 1933. Class 6.
Tancred Hosiery Mills, Inc., New York, N. Y. Hosiery. 304,929; July 25, Serial No. 335,837; published May 16, 1933. Class 39.
Teichgraeber, Theodor, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Chemicals, medicines, etc. 93,220; renewed Aug. 26, 1933.
Textile Mills Corporation, The, High Point, N. C. Hosiery. 304,923; July 25; Serial No. 335,654; published May 16, 1933. Class 39.
Thomas Mills, Inc., High Point, N. C. Hosiery. 305,075; July 25. Class 39.
Titan Metal Manufacturing Company, Bellefonte, Pa. High tensile brass and bronze lavatory handles, soap dishes, valve handles, etc. 304,975–6; July 25; Serial Nos. 334,852–3; published May 16, 1933. Class 13.
Toncan Culvert Manufacturers Association. (See Republic Steel Corporation.)
Triangle Mechanical Laboratories Corporation, Brooklyn, N. Y. Safety razor blades. 304,989; July 25; Serial No. 332,968; published May 16, 1933. Class 28.
Tripiex Corporation. (See Benedictus, Edouard, assignor.)
Ubiko Milling Company, The, Cincinnati, Ohio. Mineral ingredient for dairy, poultry, etc., for feeds. 304,932; July 25; Serial No. 334,584; published May 9, 1933. Class 6.
Unguol Pharmacal Co., The. (See De Giorgi, Joseph H.)
Urban, George, Milling Co., Buffalo, N. Y. Wheat flour. 41,578–80; renewed Dec. 1, 1933.
Veazey, Alice V., doing business as Form-A-Bella Laboratory, New Orleans, La. Reducing creams and astringents. 305,019; July 25; Serial No. 335,375; published May 2, 1933. Class 6.
Vi-Vu Products. (See Silverstein, Nellie.)
Wadhams Oil Company, assignor to Wadhams Oil Company, Milwaukee, Wis. Illuminating-oils. 94,134; renewed Nov. 4, 1933.
Waggoner Refining Company, Incorporated, Electra, Tex. Cup grease, gasoline, oils. 305,046; July 25; Serial No. 332,863; published May 9, 1933. Class 15.
Wahnetah Silk Company, Catasauqua, Pa. Silk piece goods. 94,037; renewed Oct. 28, 1933.
Wait, Justin F., New York, N. Y. Lubricating oils and oils of the mineral seal class. 305,051; July 25; Serial No. 335,582; published May 2, 1933. Class 15.
Waldes & Co., Prague-Wrschowitz, Austria-Hungary, assignor, by mesne assignments, to Waldes-Koh-I-Noor, Inc., Long Island City, N. Y. Snap-buttons. 92,020; renewed June 10, 1933.
Waldes Koh-I-Noor, Inc. (See Waldes & Co.)
Ward Baking Company, New York, N. Y. Cake. 305,073; July 25. Class 46.
Warren Refining Company, Warren, Pa. Gasoline and lubricants. 305,059; July 25; Serial No. 335,794; published May 9, 1933. Class 15.
Weaver Jackson Company, Los Angeles, Calif. Permanent-wave hair pads for hair waving apparatus. 305,013; July 25; Serial No. 333,646; published May 16, 1933. Class 44.
West Bend Aluminum Company, West Bend, Wis. Electric immersion heaters. 305,055; July 25; Serial No. 335,751; published May 9, 1933. Class 21.
West End Brewing Co., The, Utica, N. Y. Beer, ale, Pilsener, etc. 305,003–4; July 25; Serial Nos. 333,343–4; published May 16, 1933. Class 48.
Western Sausage & Provision Co., Inc., New York, N. Y. Ham. 94,341; renewed Nov. 25, 1933.
Wheeling Corrugating Company, Wheeling, W. Va. Construction materials. 92,305; renewed June 24, 1933.
Wheeling Corrugating Company, Wheeling, W. Va. Hardware and plumbing and steam-fitting supplies. 92,381; renewed July 1, 1933.
Whiting Leather & Belting Company, Inc., Long Island City, N. Y. Blended oil and chemical compound. 305,061; July 25. Class 6.
Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Hot water heater. 304,965; July 25; Serial No. 336,629; published May 16, 1933. Class 34.
Winokur, Charles, Brooklyn, N. Y. Mouth wash and antiseptic powder. 304,941; July 25; Serial No. 335,340; published May 2, 1933. Class 6.
Winthrop Chemical Company, Inc., New York, N. Y. Preparation used as a sedative and antispasmodic. 304,948; July 25; Serial No. 335,481; published May 9, 1933. Class 6.
Winthrop Chemical Company, Inc., New York, N. Y. Preparation for use as a uterostyptic and uterotonic. 304,949; July 25; Serial No. 335,433; published May 9, 1933. Class 6.
Winthrop Chemical Company, Inc., New York, N. Y. Preparation to be used as a specific against granuloma inguinale, etc. 304,950; July 25; Serial No. 335,434; published May 9, 1933. Class 6.
Yoder, Albert, doing business as Radumac Mineral Co., Los Angeles, Calif. Natural mineral product. 304,974; July 25; Serial No. 334,607; published May 9, 1933. Class 6.

LIST OF REGISTRANTS OF LABELS

Bresee, Fred, jr., doing business as 7 Point Company, San Francisco, Calif. 7 Point. For Candy. 42,432; July 25.
Cain, John E., Boston, Mass. Mastermixt Mayonnaise. For Mayonnaise Dressing. 42,433; July 25.
Chautauqua Malted Milk, Inc., Mayville, N. Y. Chautauqua Maid. For Malted Milk and Other Milk Products. 42,434; July 25.
Class & Nachod Brewing Company, The, Philadelphia, Pa. Black Eagle. For Beer. 42,435; July 25.
Class & Nachod Brewing Company, The, Philadelphia, Pa. Southern Star. For Beer. 42,436; July 25.
Cleveland Home Brewing Co., The, Cleveland, Ohio. Meister-Brau. For Beer. 42,437; July 25.
Cleveland Home-Brewing Co., The, Cleveland, Ohio. Clevelander. For Beer. 42,438; July 25.
Cristoforo Packing Co., San Francisco, Calif. Gold Empire. For Cooked Spaghetti with Mushroom and Chicken Sauce. 42,439; July 25.

Dwight Edwards Company, San Francisco, Calif. Airway. For Coffee. 42,440; July 25.
Egyptian Tea Co. (See Pritchard, Ralph E.)
El-Capitan Food Products. (See Jones, Christena A.)
Hollinghurst & Co., Inc., New York, N. Y. Kings-Bread. For Bread. 42,441; July 25.
Huyler's, New York, N. Y. Flat-Pac. For Ice Cream. 42,442; July 25.
Jones, Christena A., doing business as El-Capitan Food Products, Chicago, Ill. El-Capitan. For Salad Dressings. 42,443; July 25.
Keystone Bakery, Inc., West Bridgewater, Pa. Luxury Loaf. For Bread. 42,444; July 25.
Pritchard, Ralph E., doing business as Egyptian Tea Co., Akron, Ohio. Egyptian Herb Tea. For Herb Tea. 42,445; July 25.
Rockwood & Company, Brooklyn, N. Y. Rockwood's Flavored Pure Cocoa. For Cocoa. 42,446; July 25.
Rumford Company, The, Rumford, R. I. Rumford Bakes-All. For Prepared Flour. 42,447; July 25.
7 Point Company. (See Bresee, Fred, jr.)
Stahl-Meyer, Inc., Brooklyn, N. Y. Stahl-Meyer. For Pure Pork Sausages. 42,448; July 25.

LIST OF REGISTRANTS OF PRINTS

Cyril, Johnson, Woolen Co., Stafford Springs, Conn. Featherweight Flannel. For Woolen Piece Goods. 14,274; July 25.
Goodrich, B. F., Rubber Company, The, Akron, Ohio. New Kind of Tire . . . 3 Times Safer . . . Gives Blow-Out Protection Free! (Ad No. GBC—6). For Rubber Tires. 14,275; July 25.
Goodrich, B. F., Rubber Company, The, Akron, Ohio. Don't Gamble . . . B Safe!—With This 3-Times Safer Tire (Ad No. GBC—514). For Rubber Tires. 14,276; July 25.
Goodrich, B. F., Rubber Company, The, Akron, Ohio. Don't Let This Happen to You—Blow-Out Protection is Free! (Ad No. GBC—515). For Rubber Tires. 14,277; July 25.
Goodrich, B. F., Rubber Company, The, Akron, Ohio. Now Who Else Wants Blow-Out Protection Free! (Ad No. GBC—7). For Rubber Tires. 14,278; July 25.
Orbit Gum Company, Chicago, Ill. Tattoo Chewing Gum—Ball Player Button. For Chewing Gum. 14,279; July 25.
Premier-Pabst Corporation, Peoria Heights, Ill. Pabst Blue Ribbon The Beer of Quality. For Beer. 14,280; July 25.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Trees, plants, and hardy ornamentals, Fruit. Stark Bro's Nurseries & Orchards Co. 92,282; renewed June 24, 1933.

CLASS 4

Cleaning compound, Dry chemical. Schalk Chemical Co. 305,066; July 25.
Liquid type cleaner. M. Glass. 305,062; July 25.

CLASS 5

Adhesive pastes. Ernecke & Salmstein Co. 94,358; renewed Dec. 2, 1933.

CLASS 6

Antiseptic preparation. Metro-Oil, Inc. 304,955; July 25; Serial No. 335,516; published May 9, 1933.
Astringents and medicated washes or lotions. E. W. Malone. 305,038; July 25; Serial No. 324,388; published May 9, 1933.
Astringents, astringent cerates, bleach and beauty creams, etc. Carlova, Inc. 304,986; July 25; Serial No. 332,225; published May 2, 1933.
Astringents, astringent cerates, bleach creams, etc. Eric Company. 304,935; July 25; Serial No. 335,193; published May 2, 1933.
Boric acid, refined borax, etc. Società Boracifera Di Larderello. 304,938; July 25; Serial No. 333,273; published May 2, 1933.
Casein, Synthetic. Glidden Company. 305,041; July 25; Serial No. 321,281; published Mar. 1, 1932.
Chemical in crystal form. Osten Chemical Corporation. 304,952; July 25; Serial No. 335,461; published May 9, 1933.
Chemical preparation. Lavatone Chemical Company. 304,946; July 25; Serial No. 335,421; published May 9, 1933.
Chemical preparations. H. A. Metz & Co. 305,040; July 25; Serial No. 335,282; published May 2, 1933.
Chemical preparations, hair washes, etc. N. Silverstein. 304,997; July 25; Serial No. 326,059; published May 9, 1933.
Chemicals, medicines, etc. T. Teichgraeber. 93,220; renewed Aug. 26, 1933.
Cosmetics. Natira, Inc. 304,979; July 25; Serial No. 334,926; published May 9, 1933.
Cream, cold cream, astringent, rouge, etc., Cleansing. Armand Company. 304,999; July 25; Serial No. 325,452; published May 2, 1933.
Creams and astringents, Reducing. A. V. Veazey. 305,019; July 25; Serial No. 335,375; published May 2, 1933.
Deodorant. L. A. Sabini. 304,943; July 25; Serial No. 335,369; published May 2, 1933.
Dyes and chemicals. Geigy Company. 304,961; July 25; Serial No. 335,612; published May 9, 1933.
Extracts of vegetables, Concentrated. G. H. Riddle. 304,973; July 25; Serial No. 334,627; published May 2, 1933.
Fumigant. Lethelin Products Company. 304,954; July 25; Serial No. 335,466; published May 9, 1933.
Hair tonic. J. H. Albright. 304,958; July 25; Serial No. 335,556; published May 9, 1933.
Hair tonic. Ro-Lan Company. 305,015; July 25; Serial No. 334,267; published May 2, 1933.
Hair tonics. A. Lombardo & Son. 305,024; July 25; Serial No. 335,166; published May 2, 1933.
Hair tonics, bay rum, skin creams, etc. Lesma Products Co. Inc. 305,014; July 25; Serial No. 334,313; published May 9, 1933.
Inhalant, Nasal. Rinex Laboratories Company. 305,011; July 25; Serial No. 334,423; published May 2, 1933.
Insecticides. Furst-McNess Company. 304,960; July 25; Serial No. 335,580; published May 9, 1933.
Lactic acid tablet. Kelp-O-l Laboratories, Inc. 304,953; July 25; Serial No. 335,509; published May 9, 1933.
Liquid used for the treatments of corns, bunions, callouses. C. J. Diaz. 304,924; July 25; Serial No. 335,632; published May 9, 1933.
Lotions, perfumes, creams, etc., Hand. B. Ansehl. 307,978; July 25; Serial No. 334,900; published May 9, 1933.
Medicinal preparation. K. Brevoort. 304,991; July 25; Serial No. 331,957; published May 2, 1933.
Medicinal preparation. Capudine Chemical Company. 305,008; July 25; Serial No. 335,016; published May 9, 1933.
Medicinal preparation. Central Pharmacal Company. 305,026; July 25; Serial No. 335,190; published May 2, 1933.
Medicinal preparation. T. C. Marek. 304,977; July 25; Serial No. 334,881; published May 2, 1933.
Medicinal preparations. A. E. Drake. 305,018; July 25; Serial No. 333,760; published May 9, 1933.
Medicine. I. M. Goldstein. 304,932; July 25; Serial No. 335,024; published May 2, 1933.
Medicine. G. Hiesemann. 304,992; July 25; Serial No. 331,616; published May 2, 1933.
Mineral ingredient. Ubiko Milling Company. 304,982; July 25; Serial No. 334,584; published May 9, 1933.
Mineral preparation. H. A. Hamish. 305,010; July 25; Serial No. 334,462; published May 9, 1933.
Mineral product, Natural. A. Yoder. 304,974; July 25; Serial No. 334,607; published May 9, 1933.
Mouth wash and antiseptic powder. C. Winokur. 304,941; July 25; Serial No. 335,340; published May 2, 1933.
Oil and chemical compound. Whiting Leather & Belting Company. 305,061; July 25.
Oil, Red. Procter & Gamble Company. 304,996; July 25; Serial No. 327,287; published May 2, 1933.
Ointment. M. Schreibman. 304,945; July 25; Serial No. 335,404; published May 9, 1933.
Ointment and vulnerary powder. Chemische Fabrik Altherzberg, Alwin Nieske. 93,230; renewed Aug. 26, 1933.
Perfume, toilet water, powder, etc. Cadolle Frères, Société à Responsibilite Limitee. 304,959; July 25; Serial No. 335,562; published May 9, 1933.
Perfumery. Haarmann-de Laire-Schaefer Co. 41,631; renewed Dec. 8, 1933.
Perfumery and flavoring products. Haarmann-de Laire-Schaefer Co. 41,630; renewed Dec. 8, 1933.
Peroxid of hydrogen. Hydrox Chemical Co. 93,356; renewed Sept. 9, 1933.
Pharmaceutical preparation. J. H. De Giorgi. 305,000; July 25; Serial No. 334,388; published May 2, 1933.
Pharmaceutical preparation. J. H. De Giorgi. 305,012; July 25; Serial No. 334,389; published May 2, 1933.
Pigments, Mineral. St. Joseph Lead Company. 305,006; July 25; Serial No. 335,008; published May 2, 1933.
Poison. Stearns' Electric Paste Company. 305,025; July 25; Serial No. 335,039; published May 9, 1933.

Powder, Face. Ben Levy Co. 305,039; July 25; Serial No. 319,253; published May 2, 1933.
Preparation for the treatment of wounds. Kalle & Co., Aktiengesellschaft. 92,992; renewed Aug. 12, 1933.
Preparation for use as uterostyptic and uterotonic. Winthrop Chemical Company. 304,949; July 25; Serial No. 335,433; published May 9, 1933.
Preparation to be use as a specific against granuloma inguinale, etc. Winthrop Chemical Company. 304,950; July 25; Serial No. 335,434; published May 9, 1933.
Preparation used as a sedative and antispasmodic. Winthrop Chemical Company. 304,948; July 25; Serial No. 335,431; published May 9, 1933.
Remedy for tuberculosis, etc. R. Schneider. 40,895; renewed Aug. 11, 1933.
Skin lubricating preparation. Ad-Ez Company. 305,042; July 25; Serial No. 319,054; published June 21, 1932.
Toilet accessories. H. V. Lederer. 305,017; July 25; Serial No. 334,064; published May 2, 1933.
Toilet articles. Sylvia Cross Laboratories, Inc. 304,936; July 25; Serial No. 335,220; published May 2, 1933.
Tooth paste. Bristol-Myers Company. 305,023; July 25; Serial No. 335,186; published May 2, 1933.
Wax composition, Liquid. Guzy and Hummel. 304,951; July 25; Serial No. 335,449; published May 9, 1933.

CLASS 7

Clothes-lines manufactured from vegetable fiber. American Manufacturing Company. 91,931; renewed June 10, 1933.
Sash-cord from vegetable fiber. American Manufacturing Company. 91,927; renewed June 10, 1933.

CLASS 8

Ash trays. W. D. Smith. 305,072; July 25.

CLASS 9

Matches. Jönköpings och Vulcans Tändsticksfabriksaktiebolag. 304,967; July 25; Serial No. 336,650; published May 16, 1933.

CLASS 12

Cements. Barber Asphalt Paving Co. 41,529; renewed Nov. 24, 1933.
Coatings, Plastic and liquid waterproofing. Asro Export Co. 305,047; July 25; Serial No. 333,879; published May 2, 1933.
Construction materials. Wheeling Corrugating Company. 92,305; renewed June 24, 1933.
Guards and parts thereof, Road and highway. Republic Steel Corporation. 305,049; July 25; Serial No. 334,471; published May 9, 1933.
Lime, Hot. Ste. Genevieve Lime & Quarry Company. 305,045; July 25; Serial No. 332,385; published May 2, 1933.
Material in plastic form, Refractory. Standard Fuel Engineering Company. 305,050; July 25; Serial No. 335,077; published Apr. 25, 1933.
Shingles, laths, corners, etc., Metal. Penn Metal Company. 305,044; July 25; Serial No. 332,383; published May 2, 1933.
Slate, Roofing. Bangor Slate Association, Inc. 305,048; July 25; Serial No. 333,670; published May 2, 1933.

CLASS 13

Bathtubs, water closets, wash basins, etc. E. Pearl. 305,037; July 25; Serial No. 335,403; published May 16, 1933.
Dishes, grab rails, tooth brush holders, etc., Wall soap. Golco Sanitary System, Inc. 305,040; July 25; Serial No. 323,240; published May 16, 1933.
Fencing, Metal. Red Top Steel Post Company. 305,033; July 25; Serial No. 335,688; published May 16, 1933.
Guards or bars. Shur-Loc Window Guard Corp. 304,994; July 25; Serial No. 329,609; published May 16, 1933.
Handles, soap dishes, valve handles, etc., High tensile brass and bronze lavatory. Titan Metal Manufacturing Company. 304,975–6; July 25; Serial Nos. 334,852–3; published May 16, 1933.
Hardware and plumbing and steam-fitting supplies. Wheeling Corrugating Company. 92,381; renewed July 1, 1933.
Metal egg cookers, Base. Enterprise Aluminum Company. 305,028; July 25; Serial No. 335,904; published May 16, 1933.
Pipe. National Tube Company. 304,966; July 25; Serial No. 336,659; published May 16, 1933.
Pipes, tubes, and casings. National Tube Company. 94,196; renewed Nov. 11, 1933.
Pipes, tubes, and casings. National Tube Company. 94,392; renewed Dec. 2, 1933.
Sprinklers, waterflow valves and dry pipe valves, etc., Automatic. Globe Automatic Sprinkler Company. 304,990; July 25; Serial No. 332,145; published May 16, 1933.
Valves and valve parts. Jenkins Bros. 305,020–21; July 25; Serial No. 335,323–4; published May 16, 1933.

CLASS 14

Castings and forgings, Machinery. Daimler-Motoren-Gesellschaft. 91,855; renewed June 3, 1933.
Castings and forgings, Metal. Daimler-Motoren-Gesellschaft. 91,856; renewed June 3, 1933.

CLASS 15

Gasoline and lubricants. Warren Refining Company. 305,059; July 25; Serial No. 335,794; published May 9, 1933.
Grease, gasoline, oils, Cup. Waggoner Refining Company. 305,046; July 25; Serial No. 332,863; published May 9, 1933.
Lubricant, Top-cylinder. Lubal, Inc. 305,043; July 25; Serial No. 318,122; published May 9, 1933.
Oil, Lubricating. A. H. Branham. 305,052–3; July 25; Serial Nos. 335,711–12; published May 9, 1933.
Oils and oils of the mineral seal class, Lubricating. J. F. Walt. 305,051; July 25; Serial No. 335,532; published May 2, 1933.
Oils, Illuminating. Wadhams Oil Company. 94,134; renewed Nov. 4, 1933.
Oils, Lubricating. Standard Oil Company of New Jersey. 305,056; July 25; Serial No. 335,747; published May 9, 1933.
Petroleum products. Pure Oil Company. 305,057; July 25; Serial No. 336,052; published May 9, 1933.

CLASS 21

Amplifying unit. N. Hoffman. 305,058; July 25; Serial No. 336,006; published May 9, 1933.
Heaters, Electric immersion. West Bend Aluminum Company. 305,055; July 25; Serial No. 335,751; published May 9, 1933.

CLASS 22

Fishing-bait, Spoon. W. T. J. Lowe. 94,096; renewed Nov. 4, 1933.
Game, Fortune telling. S. S. Bloom. 305,031; July 25; Serial No. 335,710; published May 16, 1933.
Puzzles, Jig-saw. Swellelegants Jig-Cartoon Co. 305,029; July 25; Serial No. 335,896; published May 16, 1933.
Toy. R. M. Gibson. 304,964; July 25; Serial No. 336,610; published May 16, 1933.
Toy. R. M. Gibson. 304,969; July 25; Serial No. 336,611; published May 16, 1933.

CLASS 23

Cutlery, machinery, tools, etc. Daimler-Motoren-Gesellschaft. 93,081; renewed Aug. 19, 1933.
Fire extinguishing apparatus. Walter Kidde & Company. 304,981; July 25; Serial No. 336,222; published May 16, 1933.
Fret-saws for gold and silver smiths. F. Bonfigt. 93,158; renewed Aug. 6, 1933.
Knitting machinery. Beattie Manufacturing Co. 305,034; July 25; Serial No. 335,545; published May 16, 1933.
Machines, cutlery and tools. Mine & Smelter Supply Company. 94,104; renewed Nov. 11, 1933.
Mill rolls. Orville Simpson Company. 305,071; July 25.
Mufflers and silencers, compressors, blowers, etc. Burgess Battery Company. 305,063; July 25.
Pumps. Chain Belt Company. 304,962; July 25; Serial No. 336,032; published May 16, 1933.
Razor blades. Barbasol Company. 304,988; July 25; Serial No. 332,830; published Jan. 24, 1933.
Razor blades, Safety. Triangle Mechanical Laboratories Corporation. 304,989; July 25; Serial No. 332,968; published May 16, 1933.
Razors and razor blades. Segal Safety Razor Corporation. 304,998; July 25; Serial No. 325,831; published May 16, 1933.
Sealing and stamping machines and sealing machines. Mailometer Company. 93,103; renewed Aug. 19, 1933.
Stamps and metal marking devices, Steel. Markwell Stamp Co. 304,985; July 25; Serial No. 332,194; published Feb. 7, 1933.

CLASS 24

Washboards. National Washboard Company. 305,030; July 25; Serial No. 335,787; published May 16, 1933.

CLASS 26

Films, Sensitized cinematographic and photographic. Ilford, Limited. 305,002; July 25; Serial No. 333,391; published Mar. 28, 1933.

CLASS 32

Furniture and upholstery. Daimler-Motoren-Gesellschaft. 91,948; renewed June 10, 1933.
Furniture and upholstery. Daimler-Motoren-Gesellschaft. 91,951; renewed June 10, 1933.
Mattresses. Lansburgh & Bro. 304,972; July 25; Serial No. 336,159; published May 16, 1933.
Mattresses and box-springs. Jacob Kaiser Mfg. Co. 92,680; renewed July 22, 1933.
Racks for glass, etc. Parker Wire Goods Company. 305,068; July 25.
Show-cases and cabinets. Erie Meter Systems, Incorporated. 305,007; July 25; Serial No. 336,039; published May 16, 1933.

CLASS 33

Glass, Broken. M. Levy. 94,459; renewed Dec. 9, 1933.
Glass, Reinforced. E. Benedictus. 93,153; renewed Aug. 26, 1933.

CARNEGIE LIBRARY OF ATLANTA

CLASS 34

Heater, Hot water. Williams Oil-O-Matic Heating Corporation. 304,965; July 25; Serial No. 336,629; published May 16, 1933.
Heating, lighting, and ventilating apparatus. Daimler-Motoren-Gesellschaft. 91,949; renewed June 10, 1933.
Heating, lighting, and ventilating apparatus. Daimler-Motoren Gesellschaft. 91,952; renewed June 10, 1933.
Stovepipes, elbows, furnace-pipes, etc. Sheet Metal Specialty Company. 92,271; renewed June 24, 1933.
Stoves, gasoline lanterns, and roof ventilators, Oil heating. Sears, Roebuck and Co. 305,022; July 25; Serial No. 335,302; published May 16, 1933.
Unit apparatus for conditioning air. Carrier-York Corporation. 305,070; July 25.

CLASS 35

Belting, Leather. Henry K. Barnes Company. 305,065; July 25.
Linings, Brake. Keasbey & Mattison Company. 304,983; July 25; Serial No. 336,088; published May 16, 1933.
Tires. Goodyear Tire & Rubber Company. 41,344; renewed Oct. 20, 1933.

CLASS 36

Pianofortes, pianos, etc. J. & C. Fischer. 94,364; renewed Dec. 2, 1933.

CLASS 38

Newspapers. Editor & Publisher Company. 94,168; renewed Nov. 11, 1933.
Newspapers. Editor & Publisher Company. 94,433; renewed Dec. 9, 1933.

CLASS 39

Apparel, Wearing. Collegiate Garment Co. 305,064; July 25.
Boots and shoes. J. A. & W. Bird & Co. 40,364; renewed May 12, 1933.
Clothing. Daimler-Motoren-Gesellschaft. 91,950; renewed June 10, 1933.
Clothing, Men's. Frederick Loeser & Co. 304,921; July 25; Serial No. 335,618; published May 16, 1933.
Dance sets, chemises, panties, etc. Betty Levison Undergarment Co. 304,984; July 25; Serial No. 336,010; published May 16, 1933.
Dresses and blouses. Storyk Bros. 304,922; July 25; Serial No. 335,651; published May 16, 1933.
Dresses, pajamas, and bathrobes. Mellins & Mellins, Inc. 304,933; July 25; Serial No. 323,668; published Mar. 22, 1932.
Dresses, skirts, blouses, and shorts. Royal Manufacturing Company. 304,956; July 25; Serial No. 335,523; published May 9, 1933.
Dresses, suits, and blouses. R. H. Macy & Co. 304,957; July 25; Serial No. 335,541; published May 16, 1933.
Garments, Ladies' sport. S. Korach Company. 304,939; July 25; Serial No. 335,279; published May 9, 1933.
Hosiery. Harron Hosiery Company. 304,927; July 25; Serial No. 335,779; published May 16, 1933.
Hosiery. Oppenheim, Collins & Co. Inc. 305,069; July 25.
Hosiery. Rufus W. Scott Company. 305,074; July 25.
Hosiery. Tancred Hosiery Mills, Inc. 304,929; July 25; Serial No. 335,837; published May 16, 1933.
Hosiery, Textile Mills Corporation. 304,928; July 25; Serial No. 335,654; published May 16, 1933.
Hosiery. Thomas Mills, Inc. 305,075; July 25.
Hosiery, lingerie, etc. Real Silk Hosiery Mills, Inc. 304,934; July 25; Serial No. 335,131; published May 9, 1933.
Pajamas. Acme Underwear Co. Inc. 304,931; July 25; Serial No. 335,915; published May 16, 1933.
Shirts, B. V. D. Company. 304,930; July 25; Serial No. 335,760; published May 16, 1933.
Shirts, pajamas, bath robes, etc. Saks & Company. 304,947; July 25; Serial No. 335,426; published May 9, 1933.
Suits, Men's. H. Daroff & Sons, Inc. 304,925–6; July 25; Serial Nos. 335,666–7; published May 16, 1933.
Suits, overcoats, and topcoats. S. Makransky and Sons, Inc. 304,937; July 25; Serial No. 336,225; published May 16, 1933.
Suits, overcoats and topcoats. Raleigh Haberdasher, Inc. 304,928; July 25; Serial No. 335,835; published May 16, 1933.
Undergarments, Ladies'. Garfinkel & Ritter. 304,944; July 25; Serial No. 335,396; published May 9, 1933.
Undergarments, Ladies'. Garfinkel & Ritter. 305,001; July 25; Serial No. 334,357; published May 9, 1933.
Underwear. B. V. D. Company. 304,980; July 25; Serial No. 336,067; published May 16, 1933.
Underwear. Celanese Corporation of America. 304,942; July 25; Serial No. 335,347; published May 2, 1933.

CLASS 40

Articles to be used in embroidering. Jacob Frank Mercantile Co. 94,520; renewed Dec. 9, 1933.
Snap-buttons used as garment-fasteners. Waldes & Co. 92,020; renewed June 10, 1933.

CLASS 42

Silk piece goods. Wahnetah Silk Company. 94,037; renewed Oct. 28, 1933.
Woolen, silk, cotton, etc., piece goods. E. Hirtenstein. 305,009; July 25; Serial No. 334,563; published May 2, 1933.

CLASS 43

Cotton on spools or reels, Sewing. S. Manlove & Sons Limited. 93,001–2; renewed Aug. 12, 1933.
Yarns. Jacob Frank Mercantile Co. 94,510; renewed Dec. 9, 1933.

CLASS 44

Dental impression material. Harry J. Bosworth Company. 305,036; July 25; Serial No. 335,443; published May 16, 1933.
Dental investment material. Schering Corporation. 305,032; July 25; Serial No. 335,691; published May 16, 1933.
Hair pads, Permanent-wave. Weaver Jackson Company. 305,013; July 25; Serial No. 333,646; published May 16, 1933.
Nail clippers. H. C. Cook Company. 305,027; July 25; Serial No. 335,956; published May 16, 1933.
Toothpicks. A. Herz. 94,082; renewed Nov. 4, 1933.

CLASS 45

Beverage, Maltless. A. J. Monaco. 305,054; July 25; Serial No. 335,729; published May 2, 1933.
Waters, Carbonated. A. D. Champlin. 305,035; July 25; Serial No. 335,540; published May 16, 1933.

CLASS 46

Bread. Herbst Baking Corporation. 305,060; July 25.
Cake. Ward Baking Company. 305,073; July 25.
Canned salmon. Deep Sea Salmon Company. 92,756; renewed July 29, 1933.
Cheese. Corkran, Hill & Co. 93,991; renewed Oct 28, 1933.
Cornmeal. S. C. Brinser. 94,352; renewed Dec. 2, 1933.
Flour, Wheat. Hacker-Jones-Jewell Milling Company. 94,375; renewed Dec. 2, 1933.
Flour, Wheat. George Urban Milling Co. 41,578–80; renewed Dec. 1, 1933.
Ham. Western Sausage & Provision Co. 94,341; renewed Nov. 25, 1933.
Poultry. Clarinda Poultry, Butter & Egg Co. 41,451; renewed Nov. 10, 1933.
Raisins. Rosenberg Bros. & Co. 92,581; renewed July 15, 1933.
Sausage. A. Göbel. 92,064; renewed June 17, 1933.

CLASS 47

Wine, Port. C. N. Kopke & Co. Limited. 304,968; July 25; Serial No. 336,652; published May 16, 1933.
Wines. Moussec Limited. 304,963; July 25; Serial No. 336,510; published May 16, 1933.

CLASS 48

Beer. Kaiserbrauerei Beck & Co., Kommanditgesellschaft Auf Aktien. 305,067; July 25.
Beer, ale, Pilsener, etc. Seneca Food Products Corpora- 305,003–4; July 25; Serial Nos. 333,343–4; published May 16, 1933.
Beer, ale, Pilsener, etc. West End Brewing Co. 305,003–4; July 25; Serial Nos. 333,343 4; published May 16, 1933.
Malt beverage. Berghoff Brewing Corporation. 304,970; July 25; Serial No. 336,597; published May 16, 1933.
Malt beverages. Du Bois Brewing Co. 305,016; July 25; Serial No. 334,146; published May 16, 1933.

CLASS 49

Whisky. Scotia Distillers Limited. 304,971; July 25; Serial No. 336,404; published May 16, 1933.
Whisky, Rye. Sherwood Distilling Co. 92,272–3; renewed June 24, 1933.

CLASS 50

Appliances for use in supporting and maintaining draped crepe paper and the like for window display. Lockona Display Appliance Corporation. 304,993; July 25; Serial No. 330,875; published May 16, 1933.
Felt in the piece. American Felt Company. 94,413; renewed Dec. 9, 1933.
Pictures, models, and advertising indicia. Jenter Exhibits, Inc. 304,995; July 25; Serial No. 327,540; published May 16, 1933.
Waterproofed textile fabrics. J. Mandleberg & Company Limited. 304,987; July 25; Serial No. 332,590; published May 16, 1933.

LIST OF LABELS

Airway. For Coffee. Dwight Edwards Company. 42,440; July 25.

Black Eagle. For Beer. Class & Nachod Brewing Company. 42,435; July 25.

Chautauqua Maid. For Malted Milk and Other Milk Products. Chautauqua Malted Milk, Inc. 42,434; July 25.

Clevelander. For Beer. Cleveland Home Brewing Co. 42,438; July 25.

Egyptian Herb Tea. For Herb Tea. R. E. Pritchard. 42,445; July 25.

El-Capitan. For Salad Dressings. C. A. Jones. 42,443; July 25.

Flat-Pac. For Ice Cream. Huyler's. 42,442; July 25.

Gold Empire. For Cooked Spaghetti with Mushroom and Chicken Sauce. Cristoforo Packing Co. 42,439; July 25.

Kings-Bread. For Bread. Hollinghurst & Co. 42,441; July 25.

Luxury Loaf. For Bread. Keystone Bakery, Inc. 42,444; July 25.

Mastermixt Mayonnaise. For Mayonnaise Dressing. J. E. Cain. 42,433; July 25.

Meister-Brau. For Beer. Cleveland Home Brewing Co. 42,437; July 25.

Rockwood's Flavored Pure Cocoa. For Cocoa. Rockwood & Company. 42,446; July 25.

Rumford Bakes-All. For Prepared Flour. Rumford Company. 42,447; July 25.

7 Point. For Candy. F. Bresee, jr. 42,432; July 25.

Southern Star. For Beer. Class & Nachod Brewing Company. 42,436; July 25.

Stahl-Meyer. For Pure Pork Sausages. Stahl-Meyer, Inc. 42,448; July 25.

LIST OF PRINTS

Don't Gamble . . . Be Safe!—With This 3-Times Safer Tire (Ad No. GBC–514). For Rubber Tires. B. F. Goodrich Rubber Company. 14,276; July 25.

Don't Let This Happen to You—Blow-Out Protection is Free! (Ad No. GBC–515). For Rubber Tires. B. F. Goodrich Rubber Company. 14,277; July 25.

Featherweight Flannel. For Woolen Piece Goods. Cyril Johnson Woolen Co. 14,274; July 25.

New Kind of Tire . . . 3 Times Safer . . . Gives Blow-Out Protection Free! (Ad No. GBC–6). For Rubber Tires. B. F. Goodrich Rubber Company. 14,275; July 25.

Now Who Else Wants Blow-Out Protection Free! (Ad No. GBC–7). For Rubber Tires. B. F. Goodrich Rubber Company. 14,278; July 25.

Pabst Blue Ribbon The Beer of Quality. For Beer. Premier-Pabst Corporation. 14,280; July 25.

Tattoo Chewing Gum—Ball Player Button. For Chewing Gum. Orbit Gum Company. 14,279; July 25.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 25TH DAY OF JULY, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A C Spark Plug Company. (See Eshbaugh, Jesse E., assignor.)

A C Spark Plug Company. (See Helgeby, Ralph O., assignor.)

A C Spark Plug Company. (See Helgeby, R. O., and Waller, assignors.)

A C Spark Plug Company. (See McKinley, Charles W., assignor.)

A C Spark Plug Company. (See Randolph, Donald, W., assignor.)

A C Spark Plug Company. (See Zubaty, Joseph.)

Abilene Cotton Oil Company. (See Richardson, James R., assignor.)

Acker, Hans, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of alkaline earth metal cyanamides. 1,919,761; July 25.

Acme Staple Company. (See Hicks, Harry E., assignor.)

Adam, William G., Loughton, and D. G. Murdoch, Cricklewood, London, assignors to The Gas Light & Coke Company, London, England. Production of sulphate of ammonia. 1,919,707; July 25.

Adams, William J., Knoxville, Tenn. Jar cap wrench. 1,919,708; July 25.

Addressograph Company. (See Chambers, John C., assignor.)

Addressograph Company. (See Krans, Curtis G., assignor.)

Addressograph Company. (See McCain, Cecil C., assignor.)

Aderer, Julius, New York, N. Y. Orthodontic appliance. 1,919,762; July 25.

Adlake Company, The. (See Britain, Glenn H., assignor.)

Adlake Company, The. (See Hamm, W. S., and Sevison, assignors.)

Adler, Charles, jr., Baltimore, Md. Signal mechanism for highway intersections. 1,919,874; July 25.

Advance Stamping Company. (See Nolan, Nicholas J., assignor.)

Air Reduction Company. (See Anderson, James L., assignor.)

Ajax Electrothermic Corporation. (See Knerr, Horace C., assignor.)

Aktiengesellschaft Brown Boveri & Cie. (See Kern, Erwin, assignor.)

Aktiengesellschaft Brown Boveri and Cie. (See Luthi, Walter, assignor.)

Aktiengesellschaft Brown Boveri & Cie. (See Stoecklin, Josef, assignor.)

Albach, Frank, assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Basket-ball backstop. 1,919,494; July 25.

Albertson, John G., Oradell, N. J. Sewage apparatus. 1,920,158; July 25.

Albright, Victor A. T., Bedford, Ind. Saw teeth. 1,919,352; July 25.

Alcorn, Thomas E. (See Walsh, J. F., Stevens, Flynn, Caprio, and Alcorn.)

Allen, Edward M. (See Lynn, G., Allen, and Beecher.)

Allen, Joseph W., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J. Switch controlling mechanism. 1,920,135; July 25.

Allen, Lavont C., assignor to The Lamson Company, Syracuse, N. Y. Conveyer. 1,919,495; July 25.

Allen, Sherman T., Beverly Hills, Calif. Lock and latch. 1,919,763; July 25.

Allen, Stratford B., Arlington, assignor to Everett E. Kent, Newton, Mass. Actuated figure. 1,919,138; July 25.

Alsen, Fred A., Chicago, Ill. Foot rest. 1,919,680; July 25.

Aluminum Company of America. (See Dodds, Thomas E., assignor.)

Alvin Corporation, The. (See Price, James R., assignor.)

Alvord, Clinton, assignor to Worcester Loom Works, Worcester, Mass. Method of and apparatus for manufacturing tuft yarn frames. Re18,903; July 25.

American Brakeblok Corporation. (See Blume, William A., assignor.)

American Brakeblok Corporation. (See Gillies, Hugh A., assignor.)

American Brakeblok Corporation. (See Smith, Harry N., assignor.)

American Brakeblok Corporation. (See Thompson, James S., assignor.)

American Brake Shoe and Foundry Company, The. (See Poe, Fred M., assignor.)

American Brass Company, The. (See Coe, James R., assignor.)

American Brass Company, The. (See Jennison, Herbert C., assignor.)

American Can Company. (See Maher, William W., assignor.)

American Engineering Company. (See Weingartner, A. E., and Koons, assignors.)

American Floor Surfacing Machine Company, The. (See Myers, Harry L., assignor.)

American Glanzstoff Corporation. (See Oppenlaender, O., and Elsner, assignors.)

American Hard Rubber Company. (See Durant, K. J., and Hillidring, assignors.)

American Hardware Corporation, The. (See Stone, Elmer R., assignor.)

American Propeller Company, The. (See Heath, Spencer, assignor.)

American Show Case & Manufacturing Company. (See Copeland, Ira, assignor.)

American Stove Company. (See Wiedemann, John, assignor.)

American Telephone and Telegraph Company. (See Lewis, Edwin, assignor.)

American Telephone and Telegraph Company. (See Stone, John S., assignor.)

Ammerman, Clinton P. (See Pasternack, R. & Ammerman.)

Amor, George W., Norbury, England. Coupling device. 1,919,353; July 25.

Amy, Aceves & King, Inc. (See Amy, E. V., and King, assignors.)

Amy, Ernest V., and F. King, assignors to Amy, Aceves & King, Inc., New York, N. Y. Radio aerial attachment. 1,920,162; July 25.

Anareta, Alejandro, Manila, P. I. Combined typhoonoscope and barometer. 1,920,048; July 25.

Anderson, Emma M., administratrix. (See Anderson, John W.)

Anderson, James L., Tenafly, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Cutting torch. 1,919,764; July 25.

Anderson, John W., deceased, Brooklyn, N. Y., Emma M. Anderson, administratrix. Liquid heater. 1,919,681; July 25.

Anderson, Loris R., Brooklyn, and H. E. Pengilly, Hollis, N. Y. Continuous indicating viscosity gauge. 1,919,921; July 25.

Anderson, William G., Spring Lake, N. J. Expansion joint for tiled bathtub recesses. 1,919,354; July 25.

Andrle, Michael B., assignor to W. B. Jarvis Company, Grand Rapids, Mich. Closure for radiators, gasoline tanks and the like. 1,919,189; July 25.

Antranikian, Haig, Paris, France, assignor of one-half to F. T. Miller, Newton, Mass. Radiogoniometer. 1,920,159; July 25.

Appleford Paper Products Limited. (See Snell, Gaylor C., assignor.)

Arber, Hermann, Bienne, Switzerland. Stop-cock with electric heater. 1,920,049; July 25.

Armstrong-Blum Mfg. Co. (See Blum, George J., assignor.)

Armstrong, Merton C., assignor to The Sterling Siren Fire Alarm Company Inc., Rochester, N. Y. Signal control apparatus. 1,919,409; July 25.

Arnim, Edward A., jr., et al. (See Dozier, Joseph V., assignor.)

Arthur, Edwin B., and F. G. Leslie, Irwin, Pa. Ash tray. 1,920,136; July 25.

Asch, Abraham B. (See Laughlin, W. C., and Asch.)

Ashleman, Ernest, Wichita, Kans. Adjustable chair. 1,919,820; July 25.

Associated Electric Laboratories, Inc. (See Burgener, John A., assignor.)

Associated Patentees, Inc. (See Borton, Alwyn E., assignor.)

Atkins, E. C., and Company. (See Roberts, Tom R., assignor.)

Atlas Press Company. (See Childs, Harry E., assignor.)

Auble, James L., assignor to M. & A. Inc., Cincinnati, Ohio. Apparatus for forming sheet metal forms. 1,919,287; July 25.

Auburn Button Works, Inc. (See Woodruff, Carlton H., assignor.)

Audio-Cinema Incorporated. (See Lane, George, assignor.)

Autogas Corporation. (See Wetherbee, Ashur U., assignor.)

Automatic Parking Systems, Inc. (See Becker, Alfonse N., assignor.)

Babcock & Wilcox Company, The. (See Behr, Robert K., assignor.)

Babcock & Wilcox Company, The. (See Kerr, Howard J., assignor.)

Babcock & Wilcox Company, The. (See Kerr, H. J., and Melton, assignors.)
Babitch, Abraham M., Flint, Mich. Fuel pump. 1,919,496; July 25.
Bace, Jess W., Taft, Calif. Propeller pitch regulator. 1,919,875; July 25.
Bachle, Carl F., assignor to Continental Motors Corporation, Detroit, Mich. Engine. 1,919,497; July 25.
Baer, Alvin H., assignor to Frick Company, Waynesboro, Pa. Evaporator. 1,920,050; July 25.
Baggil, Emil. (See Pfau, Walter, assignor.)
Bakelite Corporation. (See Crosby, George W., assignor.)
Baker, Bert F. (See Knox, H. A., and Baker.)
Baker, David B., Riverside, C. R. Rogers, Oak Park, and N. O. Panzegrau, Chicago, Ill., assignors to International Harvester Company. Track frame structure. 1,919,315; July 25.
Baker, Franklin, jr., Newton Township, Delaware County, and L. J. R. Holst, Brookline, Pa., said Holst assignor to said Baker, jr. Game projecting apparatus. 1,919,922; July 25.
Ball, Albert P., assignor to Briggs Manufacturing Company, Detroit, Mich. Seat construction. 1,920,052; July 25.
Ball Brothers Company. (See Petty, Fred J., assignor.)
Ballauf, Fritz. (See Schmelzer, A., Ballauf, and Muth.)
Ballentin, Walter, known as Mielke, and E. Uhlich, Berlin-Hirschgarten, Germany. Motor gear. 1,919,876; July 25.
Balton, James, assignor to Joseph Shapiro, Baltimore, Md. Faucet. Des. 90,353; July 25.
Bancel, Paul A., Montclair, assignor to Ingersoll-Rand Company, Jersey City, N. J. Condenser. 1,919,190; July 25.
Bancroft, Charles, New Canaan, Conn. Rotary internal combustion engine. 1,919,355; July 25.
Barnes, Alvin P., Minneapolis, assignor of one-third to H. W. Gehr, Anoka, one-third to I. H. Barnes, and one-third to E. C. Friel, Minneapolis, Minn. Fruit holder. 1,919,765; July 25.
Barnes, Isabell, H., et al. (See Barnes, Alvin P., assignor.)
Barnes, Stuart C., et al. (See Carpenter, Thomas E.)
Barney, Clayton W., Clinton, Wash. Poultry house. 1,920,051; July 25.
Barrett Company, The. (See Miller, Stuart P., assignor.)
Barrett Company, The. (See Osborne, Fred, assignor.)
Bartlett, C. O., & Snow Company, The. (See Snow, Karl F., assignor.)
Bartsch, Herbert E., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Brake operating mechanism. 1,919,184; July 25.
Bassett, Harry P., Cynthiana, Ky., and J. C. Simons, assignors to Meigs, Bassett & Slaughter, Inc., Philadelphia, Pa. Making copper hydroxide. 1,920,053; July 25.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,919,410; July 25.
Bates, Mortimer F., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Bomb sight and pilot director. 1,919,191; July 25.
Bath, John, & Company. (See Bath, Stanley W., assignor.)
Bath, Stanley W., Shrewsbury, assignor, by mesne assignments, to John Bath & Company, Worcester, Mass. Method and apparatus for truing a grinding wheel. 1,919,288; July 25.
Baughman, Irving E., assignor, by mesne assignments, to V. R. Weast, Chicago, Ill. Apparatus for making coffee. 1,920,121; July 25.
Baum, Erich. (See Herrmann, W. O. and Baum.)
Bauman, Abraham, Santiago, Chile. Life-safety apparatus. 1,920,054; July 25.
Bausch & Lomb Optical Company. (See Bouchard, Samuel E., assignor.)
Bay, Charles A., Morristown, N. J., assignor to James R. Kearney Corporation, St. Louis, Mo. Connecting device for electrical conductors. 1,919,457; July 25.
Bayer-Semesan Company. (See Engelmann, Max, assignor.)
Bayernwerk Aktiengesellschaft, the Firm. (See Gröbl, Josef, assignor.)
Beach, William E., Riverside, Ill. Method and machine for use in paper making industry. 1,919,289; July 25.
Beal, Carl L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Protecting rubber surfaces. 1,919,766; July 25.
Becker, Alfonse N., Milwaukee, Wis., assignor, by mesne assignments, to Automatic Parking Systems, Inc. Garage. 1,919,269; July 25.
Becker, Hazen K. (See Jurgens, E. G., and Becker.)
Beebur, George K., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Hose. 1,919,356; July 25.
Beebe, John D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Play ball and making the same. 1,919,357; July 25.
Beecher, Brazier K. (See Lynn, G., Allen, and Beecher.)
Behr, Robert K., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Fluid heater. 1,919,192; July 25.
Beiger, John W., Ludington, Mich. Pedestal for tables and the like. 1,919,193; July 25.
Belknap, Samuel L., Los Angeles, Calif. Automatic safety plunger. 1,919,647; July 25.
Bell & Howell Company, The. (See Howell, Albert S., assignor.)
Bell Punch Company Limited. (See Webb, Christopher F., assignor.)
Bell Telephone Laboratories, Incorporated. (See Marrison, Warren A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Melick, John M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Roetken, Alfred A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Ryan, Francis M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Siegmund, Humphreys O., assignor.)
Bell Telephone Laboratories, Incorporated. (See Trucksess, David E., assignor.)
Bellanca, Giuseppe M., New Castle, Del. Propelling mechanism for airplanes. 1,919,682; July 25.
Bem, Joseph P., Oakland, assignor to Pacific Pitting Machine Company Inc., Fresno, Calif. Circular saw and making the same. 1,919,358; July 25.
Bendix Aviation Corporation. (See Goepfrich, Rudolph A., assignor.)
Bendix Brake Company. (See Cunningham, Marion M., assignor.)
Bendix Brake Company. (See La Brie, Ludger E., assignor.)
Bendix Brake Company. (See Laddon, I. M., Ring, and Herman, assignors.)
Bendix Brake Company. (See Rosner, Adolph, assignor.)
Bendix Research Corporation. (See Dodge, Adiel Y., assignor.)
Bennett, Charles W., Douglaston, assignor to Photo-Cast, Inc., Rochester, N. Y. Making a printing surface. 1,919,194; July 25.
Benoit, Leon, Chicago, Ill. Filler for egg cartons and the like. 1,919,458; July 25.
Bensel & Martin. (See Martin, Etta S., assignor.)
Beon, Louis, assignor to Salem Glass Works, Salem, N. J. Leer. 1,919,923; July 25.
Berby, Ola L., assignor to Clyde Iron Works, Duluth, Minn. Safety device for hoisting engines. 1,919,997; July 25.
Berkeley, Laurence J., Cleveland, Ohio. Valve mechanism. 1,919,973; July 25.
Besiek, Wilhelm Hermann, Dusseldorf-Auf Der Hardt, assignor to Haniel & Lueg G. m. b. H., Dusseldorf-Grafenberg, Germany. Apparatus for automatically regulating the drill pressure in deep-boring plants. 1,919,611; July 25.
Bibicos Theodore. (See Poulas, Gust, assignor.)
Bird, G. Curtis. (See Pepin, Joseph N., assignor.)
Bird, George H., Brooklyn, N. Y. Spool. 1,919,270; July 25.
Bishop & Babcock Manufacturing Company, The. (See Muller, Frederick W., assignor.)
Black, Archie. (See Holaday, H. A., and Black.)
Black Products Company. (See Lorimer, George W., assignor.)
Black, S. Duncan, et al., executors. (See Brogan, Graham W.)
Blakeslee, Carle J., assignor to Walker Vehicle Co., Chicago, Ill. Wheel. 1,919,924; July 25.
Blakeslee, Carle J., assignor to Walker Vehicle Company, Chicago, Ill. Wheel. 1,919,925; July 25.
Bloch, Louis J. (See Meyer, Henry A., and Bloch.)
Block, Max, Kew Gardens, N. Y., and O. Freund, Bloomfield, N. J. Yeast product and making the same. 1,919,612; July 25.
Blom, Hjalmar T., Michigan City, Ind., assignor to Sullivan Machinery Company. Pumping mechanism. 1,919,195; July 25.
Blount, Harry, and H. Sheel, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for heat treating articles. 1,919,821; July 25.
Bluhm, Charles A., Michigan City, Ind. Shock absorber. 1,920,055; July 25.
Blum, George J., assignor to Armstrong-Blum Mfg. Co., Chicago, Ill. Saw frame. 1,919,323; July 25.
Blume, William A., Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y. Friction brake. 1,919,974; July 25.
Blume, William A., Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y. Friction clutch block. 1,919,998; July 25.
Bocjl Corporation. (See Hoffman, W. G., and Miller, assignors.)
Bodan, Casimir, Jackson Heights, assignor to Photo Review Corporation, New York, N. Y. Developing apparatus. 1,919,926; July 25.
Boehm, William. (See Lassen, L., and Boehm.)
Boeing Airplane Company. (See Minshall, Robert J., assignor.)
Boeswinkle, Bernard, Woodcliff, assignor to Ferguson Brothers Manufacturing Company, Hoboken, N. J. Folding table. 1,919,613; July 25.
Bohlman, Ernest A., assignor to Jefferson Electric Company, Chicago, Ill. Bracket. 1,919,767; July 25.
Bonanno, Joseph L., assignor to Radio Corporation of America, Forest Hills, N. Y. Fine adjustment for potentiometers. 1,919,614; July 25.

Booth, Clement, Cincinnati, Ohio, assignor, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,919,615; July 25.
Booth, Margaret, New York, N. Y. Foot rail. 1,919,583; July 25.
Borden Company, The. (See McClatchie, John M., assignor.)
Borden Company, The. (See Taylor, Burt E., assignor.)
Bornstein, Joseph, Boston, assignor to Louis Bornstein, Quincy, Mass. Wiper mechanism for windshields and the like. 1,919,411; July 25.
Bornstein, Louis. (See Bornstein, Joseph, assignor.)
Borton, Alwyn E., South Orange, N. J., assignor, by mesne assignments, to Associated Patentees, Inc. Machine for forming and fastening. 1,919,999; July 25.
Bosch, Robert, Aktiengesellschaft. (See Holm, Ludwig, assignor.)
Bouchard, Samuel E., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Combined endpiece and temple for spectacles. Des. 90,354; July 25.
Bowers, Frederick M., Chester, Pa. Welder's shield. 1,919,927; July 25.
Bowers, J. I. (See Woolhouse, George H., assignor.)
Bowling, Robert T., assignor, by mesne assignments, to Potlatch Forests, Inc., Lewiston, Idaho. Piling implement. 1,919,822; July 25.
Bowling, Robert T., assignor to Potlatch Forests, Inc., Lewiston, Idaho. Portable crane. 1,919,823; July 25.
Boyd, Cecil E., Detroit, Mich., assignor to The Murray Corporation of America. Work guide for sewing machines. 1,919,459; July 25.
Boyd, Cecil E., Detroit, Mich., assignor to The Murray Corporation of America. Work guide for sewing machines. 1,919,460; July 25.
Boyd, Fisher L., Haverford, assignor to National Foam System, Inc., Philadelphia, Pa. Portable apparatus for producing fire-extinguishing foam. 1,919,616; July 25.
Boyer, George D. (See Stanitz, Jacques, and Boyer.)
Brach, E. J., & Sons. (See Hutchinson, Joseph M., assignor.)
Bradbury, William T., Kankakee, Ill., assignor to Florence Stove Company, Boston, Mass. Cabinet for oil burner supply tanks. Des. 90,357; July 25.
Bragg, Harry A., Seattle, Wash. Device for use in mixing printer's ink. 1,919,498; July 25.
Brandt, William F., Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill. Silent chain. 1,919,768; July 25.
Brauer, Arthur J., and F. P. Wagner, St. Louis, Mo. Shoe. Des. 90,355; July 25.
Breese Brothers Company, The. (See Rosenhagen, Victor, assignor.)
Briggs, Robert W. and F. Cole, Pharr, Tex. Wire cutting and twisting device. 1,920,056; July 25.
Briggs & Stratton Corporation. (See Fits Gerald, John W., assignor.)
Briggs Manufacturing Company. (See Ball, Albert P., assignor.)
Briggs, William N., Pittsfield, Mass., assignor to General Electric Company. Coil winding machine. 1,919,928; July 25.
Brink, Winfield S., assignor to The Firestone Steel Products Company, Akron, Ohio. Dual and single rim wheel. 1,919,499; July 25.
Britain, Glenn H., assignor to The Adlake Company, Chicago, Ill. Window construction. 1,919,359; July 25.
British Sure Seal Company, Limited, The. (See Stephens, William A., assignor.)
Brockman, Oscar, Louisville, Ky. Shoe sole. Des. 90,356; July 25.
Broeker, Walter. (See Kranzlein, G., Wolfram, and Broeker.)
Brogan, Graham W., deceased, Towson; S. Duncan Black and The Safe Deposit and Trust Company, Baltimore, executors, assignors to William W. Varney, Baltimore, Md. Apparatus for testing brakes. 1,919,929; July 25.
Bronander, Wilhelm B., Montclair, N. J. Fire extinguisher. 1,919,816; July 25.
Bronson, Budd, assignor to The Ohio Rubber Company, Cleveland, Ohio. Composite mat. 1,920,057; July 25.
Brooks, Benjamin T., Greenwich, Conn., and E. J. Cardarelli, Newark, N. J., assignors, by mesne assignments, to Standard Alcohol Company, Wilmington, Del. Sulphating olefines. 1,919,617; July 25.
Brooks, Benjamin T., Greenwich, Conn., assignor, by mesne assignments, to Standard Alcohol Company, Wilmington, Del. Making ethyl alcohol. 1,919,618; July 25.
Brooks, John A., assignor to E. G. Muns, Detroit, Mich. Whirling sprayer. 1,919,196; July 25.
Brown Company. (See Schur, M. O., and Hoos, assignors.)
Brown, Edward A., jr., Pittsburgh, and W. S. Unger, Munhall, Pa. Furnace. 1,919,412; July 25.
Brown, Jackson P., Montoursville, Pa. Cap for the breather pipes of internal combustion engines. 1,919,709; July 25.
Brown, Robert J., and R. W. Van Peenan, Kalamazoo, Mich. Core plug. 1,919,769; July 25.
Brownlee, Harold J., Cedar Rapids, Iowa., assignor to Quaker Oats Company, Chicago, Ill. Manufacturing furfural. 1,919,877; July 25.
Brownlee, Harold J., Cedar Rapids, Iowa, assignor to The Quaker Oats Company, Chicago, Ill. Manufacturing furfural. 1,919,878; July 25.
Brüche, Ernst. (See Mayer, E., and Brüche.)
Bruning, Clarence A., Colfax, Wash. Separable floral rack. 1,919,824; July 25.
Bruson, Herman A., Germantown, assignor to Resinous Products and Chemical Co. Inc., Philadelphia, Pa. Alkoxyacetic acids. 1,920,137; July 25.
Bruson, Herman A., Germantown, assignor to The Resinous Products & Chemical Co. Inc., Philadelphia, Pa. Coating composition containing a siccative. 1,920,160; July 25.
Bryant Paper Company. (See Clements, W. B., and Burggraf, assignors.)
Buck, Everett S., assignor, by mesne assignments, to The Edwards Manufacturing Company, Cincinnati, Ohio. Automatic valve. 1,919,413; July 25.
Buck, Frank L., Freeport, N. Y. Rubber stamp construction. 1,920,058; July 25.
Buckeye Twist Drill Company, The. (See Rodman, C. J., and Dunmire, assignors.)
Buffalo Foundry & Machine Co. (See Lavett, Charles O., assignor.)
Bulkeley, Claude A., assignor to Niagara Blower Company, Buffalo, N. Y. Air conditioning system. 1,919,197; July 25.
Bullard Company, The. (See Dunn, Thomas E., Lake, and Youd, assignors.)
Bullard, Henry C., Houston, Tex. Vehicle wheel. 1,919,683; July 25.
Burgener, John A., Hinsdale, assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 1,919,317; July 25.
Burger, Edwin. (See Pfau, Walter, assignor.)
Burgess, C. F., Laboratories, Inc. (See Kliefoth, Max H., assignor.)
Burggraf, George P. (See Clements, W. B., and Burggraf.)
Burk, Robert E., assignor to Standard Oil Company, Cleveland, Ohio. Treating cracked distillates. 1,919,825; July 25.
Burke, Ralph H., Evanston, and A. J. Forschner, Chicago, Ill. Taking soil tests. 1,919,461; July 25.
Burnet, Joseph H., Newark, N. J. Container for golf balls and tees. 1,919,198; July 25.
Burrington, Therlo E. (See Irish, C. G., and Burrington and Thomas.)
Burton, Albert E. (See Leech, W. J. B., Hay, Hollings, and Burton.)
Burton, Leo R. H., and V. E. Cook, Rome, N. Y. String bean cutter. 1,919,770; July 25.
Buschbaum, Fred, St. Louis, Mo. Exhaust operated heater. 1,920,059; July 25.
Butler Manufacturing Company. (See Norquist, V. C., and Treanor, assignors.)
Buxton, Warner R., Longmeadow, Mass. Flexible pocket receptacle. 1,920,060; July 25.
Buys, Henry D., Emmett, Idaho. Metal sheara. 1,919,710; July 25.
Byerlein, Arthur A., Detroit, Mich., assignor to General Machinery Corporation, Hamilton, Ohio. Press. 1,919,771; July 25.
Cady, Charles K., Sioux City, Iowa. Lumber rack. 1,919,271; July 25.
Camera-Projectors Limited. (See Hillery-Collings, Charles E., assignor.)
Camerota, Louis A., Burlington, N. J., assignor to Walter Wood, Philadelphia, Pa. Conveyer for cylindrical objects. 1,919,199; July 25.
Campbell, Eugene R., La Grange, assignor to Rand, McNally & Company, Chicago, Ill. Display-sheet-supporting structure. 1,919,830; July 25.
Can, R. C., Company. (See Rutkowski, Walter L., assignor.)
Caprio, Amerigo F. (See Walsh, J. F., Stevens, Flynn, Caprio, and Alcorn.)
Caputo, James V., Girard, Ohio. Pipe finishing method and apparatus. 1,919,684; July 25.
Carbide & Carbon Chemicals Corporation. (See Groff, Frazier, assignor.)
Cardarelli, Eugene J. (See Brooks, B. F., and Cardarelli.)
Cardel Company, The. (See Dolan, David J., assignor.)
Carlson, Helge E., Saugus, Mass., assignor to General Electric Company. Edgewise winding machine for stator cores. 1,920,154; July 25.
Carpenter, Edward W., Fairfield, assignor to The E. W. Carpenter Manufacturing Company, Bridgeport, Conn. Knife sharpener. 1,919,772; July 25.
Carpenter, E. W., Manufacturing Company, The. (See Carpenter, Edward W., assignor.)
Carpenter, Thomas E., Detroit, Mich., assignor, by mesne assignments, of two-thirds to I. L. Rice, jr., New York, N. Y., and one-third to S. C. Barnes, Detroit, Mich. Apparatus for controlling the flow of refrigerant in refrigerating apparatus. 1,919,500; July 25.
Carr, William V., Charlestown, Mass. Bathing belt. 1,920,061; July 25.
Caruso, Mario, Irvington, N. J., assignor to The Lionel Corporation, New York, N. Y. Electromagnetically operated track switch for toy railroads. 1,919,272; July 25.
Casani, Santos, London, England. Liquid depth regulator for baths, tanks, and the like. 1,920,062; July 25.
Cash, Arthur L., Marine City, Mich. Control mechanism for motor vehicles. 1,919,930; July 25.

Case, J. I., Company. (See MacGregor, W. F., and Krause, assignors.)
Case, J. I., Company. (See MacGregor, Wallace F., assignor.)
Case, J. I., Company. (See MacGregor, Wallace F., and Richardson, assignors.)
Casper, Caroline, Boston, Mass. Back hair confiner. 1,919,318; July 25.
Celanese Corporation of America. (See Moss, William H., assignor.)
Celluloid Corporation. (See Walsh, J. F., Stevens, Flynn, Caprio, and Alcorn, assignors.)
Celotex Company, The. (See Munroe, T. B., and Lathrop, assignors.)
Centra-Handels & Industrie A.-G. (See Schmaljohann, Paul, assignor.)
Central Screw Company. (See Kellogg, Harry F., assignor.)
Central Scientific Company. (See Stone, Guy A., assignor.)
Chain Belt Company. (See Miller, Arthur E., assignor.)
Chain Products Company, The. (See Wilcox, Howard, assignor.)
Chambers Brothers Company. (See King, Howard K., assignor.)
Chamberlain, James R., assignor to The Fafnir Bearing Company, New Britain, Conn. Spring shackle. 1,920,000; July 25.
Chambers, John C., Bridgeport, Conn., assignor to Addressograph Company, Wilmington, Del. Safety device. 1,920,001; July 25.
Chapman, Charles H., Scotia, N. Y., assignor to General Electric Company. Electrical heater for thermal relays. 1,919,975; July 25.
Chapman, Ernest, Manchester, England, assignor to Imperial Chemical Industries Limited. Indophenols and sulphur dyestuffs therefrom. 1,919,773; July 25.
Chapman, Frank D., Berlin, Wis. Cooker and cooler. 1,919,185; July 25.
Chase-Shawmut Company, The. (See Conant, Franklin N., assignor.)
Chason, Daniel H., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Attachment for vacuum cleaners. 1,920,002; July 25.
Chavanne, Jean L., Paris, France. Heat interchanging apparatus and process. 1,920,122; July 25.
Checker Cab Manufacturing Corporation. (See Kuensel, S. H. Hunter, assignor.)
Chenault, Roy L., assignor, by mesne assignments, to Gulf Research & Development Corporation, Pittsburgh, Pa. Timing mechanism. 1,920,003; July 25.
Cherneff, Leonard, Port Ludlow, Wash. Toy windmill. Des. 90,358; July 25.
Chew, Albert B., Philadelphia, Pa. Variable speed alternating current motor. 1,919,774; July 25.
Childs, Harry E., assignor to Atlas Press Company, Kalamazoo, Mich. Headlight testing device. 1,919,200; July 25.
Christen, Marcel, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric. Des. 90,359; July 25.
Christman, John M., assignor to Packard Motor Car Company, Detroit, Mich. Milling machine. 1,919,290; July 25.
Church, Lewis H., Westfield, assignor to The Thomas & Betts Co., Elizabeth, N. J. Pipe coupler. 1,919,319; July 25.
Church, Lewis H., Westfield, assignor to The Thomas & Betts Co., Elizabeth, N. J. Forming threaded bushings. 1,919,826; July 25.
Cinch Manufacturing Corporation. (See Knutson, Carl L., assignor.)
City of Jacksonville, Fla. (See Mickler, Raymond Y., assignor.)
Clark, Raymond P., assignor to Clark Stek-O Corporation, Rochester, N. Y. Fruit packer. 1,919,414; July 25.
Clark Stek-O Corporation. (See Clark, Raymond P., assignor.)
Clarke, Philip S. (See Merrill, D. R., and Clarke.)
Clavel, Rene, Basel, Switzerland. Weighting natural silk. 1,920,063; July 25.
Claybourn, Leslie W., assignor to Claybourn Process Corporation, Milwaukee, Wis. Multicolor printing press. 1,919,462; July 25.
Claybourn Process Corporation. (See Claybourn, Leslie W., assignor.)
Clements, William B. and G. P. Burggraf, assignors to Bryant Paper Company, Kalamazoo, Mich. Screen for paper stock and the like. 1,919,201; July 25.
Cleveland Graphite Bronze Company, The. (See Six, Walter J., assignor.)
Clokey, Allison A., Rutherford, N. J., assignor to International Communications Laboratories, Inc., New York, N. Y. Call box register circuit. 1,920,153; July 25.
Clum Manufacturing Company. (See Sinner, Emil, assignor.)
Clyde Iron Works. (See Berbey, Ola L., assignor.)
Coated Paper Products Company, The. (See Gluck, Fred C., assignor.)
Cody, Martin M., assignor to Crane Packing Company, Chicago, Ill. Metallic packing and making the same. 1,919,463; July 25.
Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Rolling mill. 1,919,202; July 25.
Cogsdill Manufacturing Company. (See Cogsdill, Stuart A., assignor.)
Cogsdill, Stuart A., assignor to Cogsdill Manufacturing Company, Detroit, Mich. Cleaning device for golf balls or the like. 1,920,064; July 25.
Cogswell, Alexander Gordon, Chipping Sodbury, England. Machine for affixing stamps, labels, and the like. 1,919,415; July 25.
Cole, Floyd. (See Briggs, R. W. and Cole.)
Colonial Trust Company, The, et al., executors. (See Summey, David L.)
Colt's Patent Fire Arms Manufacturing Co. (See Moore, Frederick T., assignor.)
Colvin, Isaac E., assignor to Metal-Glass Products Co., Belding, Mich. Container. 1,919,501; July 25.
Conant, Franklin N., assignor to The Chase-Shawmut Company, Newburyport, Mass. Renewable electric fuse and making it. 1,919,273; July 25.
Conant, Franklin N., assignor to The Chase-Shawmut Company, Newburyport, Mass. Electric fuse. 1,919,274; July 25.
Condit Electrical Manufacturing Corporation. (See Jansson, Gustav E., assignor.)
Consolidated Safety Pin Company. (See Hagel, Albert, assignor.)
Consortium fur Elektrochemische Industrie, G. m. b. H. (See Herrmann, W. O., and Baum, assignors.)
Continental Motors Corporation. (See Bachle, Carl F.)
Continental Motors Corporation. (See Fink, James O., assignor.)
Continental Motors Corporation. (See Meyer, Andre J., assignor.)
Cook, Vernon E. (See Burton, L. R. H., and Cook.)
Coolidge, Charles H., assignor to Curtis & Marble Machine Company, Worcester, Mass. Cloth guiding device. 1,919,291; July 25.
Cooper, James, assignor to Hall & McChesney, Syracuse, N. Y. Embossing leather as applied to backs of loose leaf binders. 1,919,827; July 25.
Cooper, Sheldon D., assignor to Republic Steel Corporation, Youngstown, Ohio. Apparatus for handling bent metal. 1,919,186; July 25.
Copeland, Ira, Detroit, Mich., assignor to American Show Case & Manufacturing Company. Beer dispensing bar. Des. 90,360; July 25.
Cords, William, San Diego, Calif. Method and apparatus for making packing rings. 1,919,584; July 25.
Cornell Iron Works, Inc. (See Cornell, Milton L., assignor.)
Cornell, Milton L., assignor to Cornell Iron Works, Inc., New York, N. Y. Door construction. 1,919,685; July 25.
Cornell-Unity, Inc. (See Kaminski, Ludwik, assignor.)
Corner, George H. C., assignor to Hookless Fastener Company, Birmingham, England. Making slide fasteners. 1,920,138; July 25.
Corning Glass Works. (See Said, William H., assignor.)
Corning Glass Works. (See Taylor, William C., assignor.)
Cox, Irwin W. (See Rieck, Anthony A., assignor.)
Craig, Robert W., Burbank, Calif., assignor to The National Supply Company, Toledo, Ohio. Drill stem for flush joint drilling apparatus. 1,919,931; July 25.
Cram, Hervey G., assignor to Maine Seaboard Paper Company, Bucksport, Maine. Evacuation of condensate. 1,919,416; July 25.
Crane Packing Company. (See Cody, Martin M., assignor.)
Crawford, Richard A., and F. K. Schoenfeld, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Manufacture of aqueous dispersions. 1,919,775; July 25.
Creed and Company. (See Thompson, Alfred E., assignor.)
Creed and Company, Limited. (See Griffith, Ronald G., assignor.)
Crellin Machine Company. (See Willard, John M., assignor.)
Crosby, George W., Woodcliff, N. J., assignor to Bakelite Corporation, New York, N. Y. Rubber vulcanization mold. 1,920,139; July 25.
Crosby, Walter O., Los Angeles, assignor to Francis Walter Guilbert, Beverly Hills, Calif. Liquid measuring system. 1,919,828; July 25.
Crosley Radio Corporation, The. (See Rockwell, Ronald J., assignor.)
Cross, Walter M., Kansas City, Mo., assignor, by mesne assignments, to Gasoline Products Company Inc., Wilmington, Del. Apparatus for treating hydrocarbons. 1,919,320; July 25.
Crossley, George K. (See Mills, B. M., and Crossley.)
Coutant, Jay Gould, assignor to Furnace Engineering Company, Inc., New York, N. Y. Furnace. 1,919,203; July 25.
Crompton & Knowles Loom Works. (See Gargolinski, Anthony D., assignor.)
Cunningham, Marion M., assignor to Bendix Brake Company, South Bend, Ind. Brake hook-up. 1,919,187; July 25.
Currie, Hugh A., Chicago, Ill. Caster. 1,920,004; July 25.
Curtis, Charles G., New York, and E. R. Newton, Jamaica, N. Y. Two cycle internal combustion engine. 1,919,829; July 25.

Curtis & Marble Machine Company. (See Collidge, Charles H., assignor.)
Curtis, Westley F. (See Page, R. M., and Curtis.)
Cutler, John F., San Francisco, Calif. Can punch. 1,919,711; July 25.
Damerell, Mark H., assignor to Wyman-Gordon Company, Worcester, Mass. Machine for rolling tubular products. 1,919,686; July 25.
Daneke, William, Linden, assignor to Joseph Dixon Crucible Company, Jersey City, N. J. Pencil and finishing same. 1,920,005; July 25.
Daniels, Claude H., Newton Center, Mass. Manufacturing boots or shoes. 1,919,464; July 25.
Daniels, Lloyd C. (See Jaeger, A. O., Daniels, and West.)
Daniels, Samuel. (See Lyon, A. J., and Daniels.)
Davis, Elmer M., assignor to Swift and Company, Chicago, Ill. Neutralizing butter fat. 1,919,502; July 25.
Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Two-operator two-hand control. 1,919,776; July 25.
Davis, Harold G., Denver, Colo. Dishwasher. 1,919,541; July 25.
Davis, Putnam, New York, N. Y. Surface finishing articles made of hydraulic cement mixtures. 1,920,065; July 25.
Dean, Allan I., Yeadon, assignor to Good Roads Company, Inc., Upper Darby, Pa. Spreading apparatus. 1,919,619; July 25.
Decker, Alfred, & Cohn, Inc. (See De Marco, Nicola G., assignor.)
Decker, Walter L., New York, N. Y. Heater. 1,919,204; July 25.
Deere & Company. (See Forrest, Londell C., assignor.)
Deere & Company. (See Strandlund, Carl G., assignor.)
Deere & Company. (See White, Charles H., assignor.)
De Ganahl, Carl, Greenlawn, assignor to Fleetwings, Inc., Garden City, Long Island, N. Y. Monospar airplane. 1,919,620; July 25.
Degl, Karel, Prague, Czechoslovakia. Securing synchronism in sound films. 1,919,585; July 25.
De Groot, Willem, Eindhoven, Netherlands, assignor to General Electric Company. Gaseous electric discharge device. 1,919,932; July 25.
De Groot, Willem, Eindhoven, Netherlands, assignor to General Electric Company. Gaseous electric discharge device. 1,919,933; July 25.
Deguide, Camille, Enghien, France, assignor to International Industrial and Chemical Company, Ltd., Montreal, Canada. Manufacture of alkali metal carbonate. 1,919,832; July 25.
De Lancey, Warren H., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Air separator. 1,920,066; July 25.
De Laval Separator Company, The. (See Gilmore, Vincent J., assignor.)
De Laval Separator Company, The. (See Walker, Robert G., assignor.)
Deline, Irving A., Denver, Colo. Knockdown display rack. 1,919,687; July 25.
De Marco, Nicola G., assignor to Alfred Decker & Cohn, Inc., Chicago, Ill. Coat belt. 1,919,503; July 25.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Welding apparatus. 1,919,978; July 25.
De Rousé, Charles R. A. M., Vouvsses Par Mercues, France. Stabilizing device for aircraft. 1,919,831; July 25.
Detroit Dental Manufacturing Company. (See Kerr, Robert M., assignor.)
Detroit Metal Specialty Corporation. (See Walter, Herbert, assignor.)
Deucher, Eugene G., Cleveland, assignor to The Universal Crane Company, Lorain, Ohio. Crane frame. 1,919,860; July 25.
Deutsch, Morris, Detroit, Mich., assignor to Swift and Company, Chicago, Ill. Branding device. 1,919,688; July 25.
Devlin, Frank J., Forest Hills, N. Y. Display device. 1,919,321; July 25.
De Witt, Alexel. (See Wassilieff, V., and De Witt.)
D'Halloy, Audoin, Paris, France, assignor to International Safety Lock Nut Corporation. New York, N. Y. Bolt and nut clamping device. 1,919,205; July 25.
D'Halloy, Audoin, Paris, France, assignor to International Safety Lock Nut Corporation, New York, N. Y. Locknut device. 1,919,621; July 25.
Dick, Burns, assignor to Wagner Electric Corporation, St. Louis, Mo. Brake. 1,919,542; July 25.
Diedrich, Paul. (See Dohrn, M., and Diedrich.)
Diehl, Arthur, Milwaukee, Wis. Humidifier. 1,919,777; July 25.
Disney, Roy O. (See Garity, William E., assignor.)
Dixon, Joseph, Crucible Company. (See Daneke, William, assignor.)
Doane, Leon L., Butler, Pa., assignor to McIntosh Electrical Corporation. Effecting the bloodless removal of diseased tissue. 1,919,548; July 25.
Dobmaier, Karl. (See Lehmann, R., Heckmanns, Dobmaier, and Willems.)
Dodds, Thomas E., Massena, N. Y., assignor to Aluminum Company of America, Pittsburgh, Pa. Ingot mold. 1,919,622; July 25.
Dodge, Adiel Y., assignor to Bendix Research Corporation, South Bend, Ind. Propeller. 1,919,586; July 25.
Dohrn, Max, Berlin-Charlottenburg, and P. Diedrich, Finkenkrug, near Spandau, assignors to Schering-Kahlbaum A. G., Berlin, Germany. Chelidamic acid compound. 1,919,417; July 25.
Dolan, David J., Cleveland Heights, Ohio, assignor to The Cardel Company, Inc., Chester, Pa. Motor governing device. 1,920,067; July 25.
Donaldson, Joseph E. (See Reichert, Samuel, assignor.)
Donaldson, William T., White Bear, assignor to Standard Conveyor Company, North St. Paul, Minn. Conveyer system. 1,919,934; July 25.
Douglas, Harry A., Bronson, Mich. Signaling system for automotive vehicles. 1,919,206; July 25.
Douglas, Harry A., Bronson, Mich. Automotive vehicle switching mechanism. 1,919,207; July 25.
Douglas, Harry A., Bronson, Mich. Switching mechanism for automotive vehicles. 1,919,208; July 25.
Douglas, Harry A., Bronson, Mich. Switching mechanism for automotive vehicles. 1,919,209; July 25.
Douglas, Harry A., Bronson, Mich. Door switch or the like. 1,919,210; July 25.
Dover Stamping & Manufacturing Company. (See Little, Charles E., assignor.)
Dow Chemical Company, The. (See Dow, Herbert H., assignor.)
Dow Chemical Company, The. (See Gann, John A., assignor.)
Dow Chemical Company, The. (See Heath, S. B., and Reimers, assignors.)
Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Gas purification. 1,919,778; July 25.
Dozier, Joseph V., assignor of one-fourth to E. A. Arnim, jr., and one-fourth to De Fay Johnson, Flatonia, Tex. Prostatic catheter. 1,920,006; July 25.
Dressler, Conrad, Paris, France, assignor to Swindell-Dressler Corporation, Pittsburgh, Pa. Method of and apparatus for glazing ceramic ware. 1,919,822; July 25.
Dreyfus, Henry, London, England. Production of useful products from cellulosic materials. 1,919,623; July 25.
Droll, Joseph W. (See Olson, Alex H., assignor.)
Druckenmiller, Joseph E., Edge Hill, Pa. Combined bathtub and shower pan. Des. 90,361; July 25.
Dryice Corporation of America. (See Josephson, Walter S., assignor.)
Dryice Equipment Corporation. (See Martin, James W., jr., assignor.)
Dudley, James G., New York, N. Y. Window. 1,919,418; July 25.
Dudley, James G., New York, N. Y. Door. 1,919,419; July 25.
Duncan Electric Manufacturing Company. (See Emens, Albert L., assignor.)
Duncan Electric Manufacturing Company. (See Green, Stanley S., assignor.)
Dunham, George N., Los Angeles, Calif. Photoprint drier. 1,919,275; July 25.
Dunlop, Donald E., San Francisco, Calif. Closure for collapsible tubes. 1,919,712; July 25.
Dunmire, Russell P. (See Rodman, C. J., and Dunmire.)
Dunn, Thomas E., Dyer B. Lake, and Earl T. Youd, assignors to The Bullard Company, Bridgeport, Conn. Chrome scale softening process. 1,919,624; July 25.
Du Pont, E. I., de Nemours & Company. (See Engelmann, Max, assignor.)
Du Pont, E. I., de Nemours & Company. (See Handforth, S. L., and Kirst, assignors.)
Du Pont, E. I., de Nemours & Company. (See Kharasch, Morris S., assignor.)
Du Pont, E. I., de Nemours & Company. (See Richardson, Edgar C., assignor.)
Du Pont Rayon Company. (See Henningsen, Carleton, assignor.)
Durant, Kenneth J., and C. F. Hilldring, Akron, Ohio, assignors to American Hard Rubber Company, New York, N. Y. Frame for refrigerator doors. 1,920,007; July 25.
Eastman Machine Company, et al. (See Meyer, H. A. and Bloch, assignors.)
Easton, Roland D. (See Troland, L. T., and Easton.)
Eby, Eugene D., Pittsfield, Mass., assignor to General Electric Company. Fluid filled high tension terminals. 1,919,935; July 25.
Eclipse Aviation Corporation. (See Allen, Joseph W., assignor.)
Eclipse Aviation Corporation. (See Havill, Clinton H., assignor.)
Eclipse Aviation Corporation. (See Lansing, Raymond P., assignor.)
Eclipse Aviation Corporation. (See NcNeil, Charles I., assignor.)
Edison, Thomas A., jr., Easton Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Cooking utensil or like article. Des. 90,362; July 25.
Edison, Thomas A., Incorporated. (See Edison, Thomas A., jr., assignor.)
Edlund, Daniel L., Cambridge, Mass., assignor to Ludlum Steel Co., Watervliet, N. Y. Alloy steel. 1,919,211; July 25.
Edwards, Evan E., New Kensington, Pa. Light signal. 1,919,276; July 25.
Edwards, Herbert C., assignor to Packard Motor Car Company, Detroit, Mich. Internal combustion engine. 1,919,277; July 25.

Edwards Manufacturing Company, The. (See Buck, Everett S., assignor.)
Edwards, William E., Pittsburgh, Pa., assignor to National Tube Company. Cutting tool. 1,919,420; July 25.
Egbert, Joseph, assignor to The Jaeger Machine Company, Columbus, Ohio. Closure for concrete mixers. 1,919,212; July 25.
Ehlers, Hans. (See Reitz, H., and Ehlers.)
Eichelsdoerfer, Theodore P., Rock Island, Ill. Trophy plaque. Des. 9,363; July 25.
Einsel, Elmer D., and N. C. Nelson, Hastings, Nebr., assignors to The Hastings Equity Grain Bin Manufacturing Company. Valve for animal feeders. 1,919,587; July 25.
Einson-Freeman Co. (See Einson, Morris M., assignor.)
Einson-Freeman Co., Inc. (See Einson, M. M., and Tanner, assignors.)
Einson, Morris M., Yonkers, assignor to Einson-Freeman Co., Inc., Long Island City, N. Y. Packing and display container. 1,919,880; July 25.
Einson, Morris M., Yonkers, N. Y., and A. J. Tanner, North Haven, Conn., assignors to Einson-Freeman Co., Inc., Long Island City, N. Y. Packing and display container. 1,919,879; July 25.
Elkan, Arthur J., jr., Mexico, Mexico. Closure with valve for bottles or the like. 1,920,068; July 25.
Elliott-Fisher Company. (See Walter, Edward C., assignor.)
Ellis, George D., and Sons, Incorporated. (See Taylor, Herbert K., assignor.)
Ellis, James T., Sulphur Mine, La. Pipe cutter. 1,919,881; July 25.
Ellison, Lewis M., Evanston, Ill. Draft gauge. 1,919,713; July 25.
Elrod, Henry E., Houston, Tex. Sludge digestion tank. 1,919,689; July 25.
Elsner, Richard. (See Oppenlaender, O., and Elsner.)
Ely, Allen J. (See Haupt, C. H., and Ely.)
Ely, Frederic G., Chatham, N. J., assignor to Fuller Lehigh Company, New York, N. Y. Control of furnace temperature and furnace wall construction. 1,919,324; July 25.
Emens, Albert L., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Electricity meter. 1,919,213; July 25.
Emens, Albert L., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Electricity meter. 1,919,214; July 25.
Endly, Herbert L., Emporia, Kans. Waxing device. 1,920,069; July 25.
Endres, Herbert A., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparing isolnble pigments. 1,919,714; July 25.
Endres, Herbert A., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparing dispersions of insolubie pigments. 1,919,715; July 25.
Engelmann, Max, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Disinfectant composition. 1,919,936; July 25.
Engelmann, Max, assignor to Bayer-Semesan Company, Wilmington, Del. Seed disinfectant. 1,920,008; July 25.
Engelmann, Max, assignor to Bayer-Semesan Company, Wilmington, Del. Seed disinfectant. 1,920,009; July 25.
Enright, Stephen P., Philadelphia, Pa. Toilet flushing apparatus. 1,919,779; July 25.
Ernst, Walter, assignor to Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Radial pump. 1,920,123; July 25.
Error No Inc. (See Harper, C. C., and Kitendaugh, assignors.)
Eshbaugh, Jesse E., assignor to A C Spark Plug Company, Flint, Mich. Ammeter. 1,919,504; July 25.
Evans, Edwin R., Chicago, Ill. Brake construction. 1,919,882; July 25.
Evans, Ralph L., assignor to Zotos Corporation, New York, N. Y. Method of and means for permanently waving hair. 1,919,690; July 25.
Ewald, Warren, Ardsley, assignor, by mesne assignments, to John J. Nesbitt, Inc., Holmsburg-Philadelphia, Pa. Automatic fire protection damper. 1,919,625; July 25.
Ewing, Charles R., Toronto, and T. Montgomery, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company. Method and apparatus for cracking oil. 1,919,691; July 25.
Fafnir Bearing Company, The. (See Chamberlain, James R., assignor.)
Fafnir Bearing Company, The. (See Searles, Raymond R., assignor.)
Fairbank, Roswell L., Utica, assignor of one-half to P. Rahn, Whitesboro, N. Y. Coupling. 1,919,780; July 25.
Fairbanks, Morse & Co. (See Oetzel, George, assignor.)
Falkendorf, Henry, Los Angeles, Calif. Making frozen confections. 1,919,692; July 25.
Farbenindustrie, I. G., Aktiengesellschaft. (See Suchy, R., and Krause, assignors.)
Fargo Corporation, The (See O'Neill, Frank, jr., assignor.)
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Snap-acting valve device. 1,919,421; July 25.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 1,919,423; July 25.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 1,919,424; July 25.
Farmer, Clyde C., Pittsburgh, and E. E. Hewitt, Edgewood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 1,919,422; July 25.
Farrington, Thayer B., Pasadena, Calif., assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for forming plastic strip material. 1,919,861; July 25.
Farup, Peder, Vettkollen, Vestre Aker, assignor to Titan Co. A/S, Fredrikstead, Norway. Dissolving titaniferous materials in acids. 1,919,425; July 25.
Faus, Herbert W., White Plains, N. Y. Hot box control. 1,919,693; July 25.
Fehrle, Alfred. (See Streitwolf, K. & Fehrle, and Herrmann.)
Felix, Friedrich, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Azo-dyestuffs and making same. 1,919,833; July 25.
Ferguson Brothers Manufacturing Company. (See Boeswinkle, Bernard, assignor.)
Fett, Minna, née Hamdorf, Hamburg, Germany. Bedstead protector. 1,919,426; July 25.
Field, John, Fairfield, assignor to The Warner Brothers Company, Bridgeport, Conn. Elastic garment. 1,919,292; July 25.
Field, John, Fairfield, assignor to The Warner Brothers Company, Bridgeport, Conn. Corset. 1,919,298; July 25.
Fielding, John, North Providence, assignor of one-half to J. P. Whitaker, Apponaug, R. I. Securing a metallic bridge to nonmetallic lens rims. 1,919,937; July 25.
Fielding, John, North Providence, assignor of one-half to J. P. Whitaker, Apponaug, R. I. Securing a metallic bridge to metallic lens rims. 1,919,938; July 25.
Filtration Equipment Corporation. (See Laughlin, W. C., and Asch, assignors.)
Fink, James O., assignor to Continental Motors Corporation, Detroit, Mich. Internal combustion engine. 1,919,544; July 25.
Finn, John, jr., San Francisco, Calif. Apparatus for purifying exhaust gas. 1,919,626; July 25.
Firestone Steel Products Company, The. (See Brink, Winfield S.)
Firestone Tire & Rubber Company, The. (See Saurer, Curt, assignor.)
Fischbein, David, Minneapolis, Minn. Fan attachment for sewing machines. 1,919,782; July 25.
Fischer, William E., Bethlehem, Pa. Split bushing for tool posts and similar application of use. 1,920,141; July 25.
Fisher, Frederick E., Scotia, N. Y., assignor to General Electric Company. Core forming machine for electrical apparatus and making cores. 1,920,155; July 25.
Fisher, Harold W., assignor to Standard-I. G. Company, Baton Rouge, La. Hydrogenation of hydrocarbon oils. 1,920,140; July 25.
Fisher, Martin M., Seattle, Wash. Brake shoe grinder. 1,919,545; July 25.
Fiske, Albert P., Hohokus, N. J. Pipe holder. 1,919,362; July 25.
Fitz Gerald, Alan S., assignor to Radio Corporation of America, Wynnewood, Pa. Exercising apparatus. 1,919,627; July 25.
Fitz Gerald, Alan S., Wynnewood, Pa., assignor to General Electric Company. Electric power converting apparatus. 1,919,976; July 25.
Fitz Gerald, Alan S., Wynnewood, Pa., assignor to General Electric Company. Electric valve converting apparatus. 1,919,977; July 25.
Fitz Gerald, John W., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Switch. 1,919,278; July 25.
Fleetwings, Inc. (See de Ganahl, Carl, assignor.)
Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Method and apparatus for testing internal diameter of tubes. 1,919,546; July 25.
Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Pneumatic swab plunger. 1,919,547; July 25.
Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Gas choke for plunger lift devices. 1,919,548; July 25.
Florence Stove Company. (See Bradbury, William T., assignor.)
Flynn, Kirtland. (See Walsh, J. F., Stevens, Flynn, Caprio, and Alcorn.)
Foreman, Amos L., Detroit, Mich., assignor to Forward Crate Corporation. Box or crate. 1,919,427; July 25.
Foreman, Amos L., assignor to Forward Crate Corporation, Detroit, Mich. Bottle crate. 1,919,428; July 25.
Forrest, Henry O., West Englewood, and L. Van Horn, Elizabeth, N. J. Method and apparatus for conditioning air. 1,919,781; July 25.
Forrest, Londell C., Kit Carson, Colo., assignor to Deere & Company, Moline, Ill. Corn harvester. 1,919,783; July 25.
Forschner, Anthony J. (See Burke, R. H., and Forschner.)
Forward Crate Corporation. (See Foreman, Amos L., assignor.)
Fowler, Fred D., Newton, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for embossing plastic articles. 1,919,363; July 25.

Fox, George R., St. Louis, Mo. Machine for the manufacture of laminated fibrous pulleys. 1,919,694; July 25.
Franklin, Edward J., Salt Lake City, Utah. Water-tube steam boiler. Re18,901; July 25.
Fraterangelo, Liberatore. (See Moricca, Joseph, assignor.)
Freeman, Axel, Canton, Ohio. Metal partition. 1,919,716; July 25.
Freeman, Benjamin F., Long Island City, N. Y. Receptacle closure. 1,919,695; July 25.
Freiberg, Stanley B., Cincinnati, Ohio. Loose leaf binder. 1,919,784; July 25.
Freund, Karl E. (See Maclachlan, A. D., and Freund.)
Freund, Oswald. (See Block, Max, and Freund.)
Frick Company. (See Baer, Alvin H., assignor.)
Frick, Harry A., Chicago, and F. O. Rouse, Downers Grove, Ill., assignors to International Harvester Company. Lift body for motor vehicles. 1,919,325; July 25.
Friel, Earl C., et al. (See Barnes, Alvin P., assignor.)
Frist, Ren L., Dana, Ind. Wall spacer for concrete forms. 1,920,070; July 25.
Frolich, Per K., and S. P. Gildersleeve, assignors to Standard Oil Development Company, Elizabeth, N. J. Dilution detector for antifreeze solutions. 1,919,628; July 25.
Frysile, Edward, Iowa Falls, Iowa. Tile cleaning apparatus. 1,919,549; July 25.
Fuehrer, George H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. 1,919,717; July 25.
Fuller Lehigh Company. (See Ely, Frederic G., assignor.)
Furgason, Claude E. (See Thomas, H. T., Furgason, and Hays.)
Furgason, Claude E., Lansing, Mich. Hydraulic brake. 1,919,465; July 25.
Furnace Engineering Company. (See Coutant, Jay G., assignor.)
Galizi, Adriano. (See Galizi, Eugenio.)
Galizi, Eugenio, deceased, by Maria Galizi, executrix, Brooklyn, assignor of one-half to Adriano Galizi, New York, N. Y. Accordion illuminating means. 1,919,294; July 25.
Galizi, Maria executrix. (See Galizi, Eugenio.)
Gallagher, William R., jr., and W. L. Lloyd, Houtsdale, Pa. Accessory for automobiles. 1,919,326; July 25.
Galloway, Charles D., Wyndmoor, Pa. Stoppered tubular storage battery element. 1,919,883; July 25.
Galtieri, Louis, Garfield, N. J. Stair tread. 1,919,629; July 25.
Ganary, Ralph T., Bridgeton, N. J., assignor of one-half to E. B. Neill and A. Neill, Fox Chase, Pa. Griddle iron. Des. 90,364; July 25.
Gann, John A., assignor to The Dow Chemical Company, Midland, Mich. Casting freely oxidizable metal. 1,919,939; July 25.
Gardner-Denver Company. (See Stewart, Charles M., assignor.)
Gardner, George, Redlands, Calif. Power blade control for road graders. 1,919,648; July 25.
Gargolinski Anthony D., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft replenishing mechanism. 1,919,295; July 25.
Garity, William E., assignor to R. O. Disney, Los Angeles, Calif. Scoring motion pictures. 1,919,364; July 25.
Gas Light & Coke Company, The. (See Adam, W. G., and Murdoch, assignors.)
Gasoline Products Company Inc. (See Cross, Walter M., assignor.)
Gayner Glass Works. (See Marsden, John E., assignor.)
Gebr, H. W., et al. (See Barnes, Alvin P., assignor.)
General Aniline Works, Inc. (See Hoffa, E., and Thoma, assignors.)
General Aniline Works, Inc. (See Kranslein, G., Wolfram, and Broeker, assignors.)
General Aniline Works, Inc. (See Schmelzer, A., Ballauf, and Muth, assignors.)
General Aniline Works, Inc. (See Wagner, H., and Kracker, assignors.)
General Chemical Company. (See Merriam, Henry F., assignor.)
General Electric Company. (See Briggs, William N., assignor.)
General Electric Company. (See Carlson, Helge E., assignor.)
General Electric Company. (See Chapman, Charles H., assignor.)
General Electric Company. (See De Groot, Willem, assignor.)
General Electric Company. (See Dempster, John T. H., assignor.)
General Electric Company. (See Eby, Eugene D., assignor.)
General Electric Company. (See Fisher, Frederick E., assignor.)
General Electric Company. (See Fitz Gerald, Alan S., assignor.)
General Electric Company. (See Goff, Robert W., assignor.)
General Electric Company. (See Hoffmann, Daniel C., assignor.)
General Electric Company. (See Kempton, Leslie A., assignor.)
General Electric Company. (See Le Sur, Pierre, assignor.)
General Electric Company. (See Mayer, E., and Brüche, assignors.)
General Electric Company. (See Miyamoto, Shigenari, assignor.)
General Electric Company. (See Morrill, Weston, assignor.)
General Electric Company. (See Murphy, George F., assignor.)
General Electric Company. (See Patterson, Franklin G., assignor.)
General Electric Company. (See Powers, James H., assignor.)
General Electric Company. (See Prince, David C., assignor.)
General Electric Company. (See Rupp, Emil, assignor.)
General Electric Company. (See Schiebeler, C., and Weiss, assignors.)
General Electric Company. (See Shaw, Percy G., assignor.)
General Electric Company. (See Starie, George B., assignor.)
General Electric Company. (See Stewart, Clyde E., assignor.)
General Electric Company. (See Traver, Oliver C., assignor.)
General Electric Company. (See Tripp, Augustus B., assignor.)
General Electric Company. (See Vienneau, Jacob J., assignor.)
General Electric Company. (See Woods, William J., assignor.)
General Electric Company. (See Wry, Thomas A., assignor.)
General Electric Company. (See Wünsche, Otto, assignor.)
General Fire Extinguisher Company. (See Loepsinger, Albert, assignor.)
General Machinery Corporation. (See Byerlein, Arthur A., assignor.)
General Motors Corporation. (See Hutchinson, Philip H., assignor.)
General Register Corporation. (See Heisel, Reuben H., assignor.)
General Talking Pictures Corporation. (See Seaholm, Charles H., assignor.)
Genovese, Francesco S., Jamaica, N. Y. Life preserver. 1,920,071; July 25.
Genova, Arturo, Madrid, Spain. Rescue device for submarines. 1,919,884; July 25.
George, Robert H., Philadelphia, Pa. Drain valve. 1,919,696; July 25.
Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Thermostatic switch. 1,919,327; July 25.
Getz, Vernon C., Haselton, Pa. Brooder. 1,919,884; July 25.
Giese, Fritz, Berlin-Halensee, Germany. Reading device for a book. 1,919,835; July 25.
Giesey, Russell, Oklahoma City, Okla., assignor to Reed Roller Bit Company, Houston, Tex. Roller bit. 1,919,505; July 25.
Gilbert & Barker Manufacturing Company. (See DeLancey, Warren H., assignor.)
Gilbert & Barker Manufacturing Company. (See Spear, Ledlyn F., assignor.)
Gildersleeve, Stanley P. (See Frolich, Per K. and Gildersleeve.)
Giles, H. R., et al. (See Pippin, John W., assignor.)
Gillette Safety Razor Company. (See Marcy, Grosvenor D., assignor.)
Gillette Safety Razor Company. (See Muros, Joseph, assignor.)
Gillies, Hugh A., Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y. Friction brake. 1,920,010; July 25.
Gillis, William H., Humble, assignor of one-fourth to D. H. Gunn and one-fourth to H. B. Gunn, Harris County, Tex. Burner. 1,920,124; July 25.
Gilmore, Vincent J., Wappingers Falls, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal separator frame. Des. 90,365; July 25.
Gilsenan, John J., Newark, N. J. Fire-fighting equipment. 1,919,365; July 25.
Ginsberg, Abraham J., New York, N. Y. Removable exposure and focusing device for cameras. 1,920,072; July 25.
Gingrich, John E. (See Jensen, H. M., Gingrich, and Medina.)
Gleeson, George A., Chicago, Ill. Rouge applicator. 1,919,887; July 25.
Glenn, John C., Chicago, Ill. Water heater. 1,919,506; July 25.
Globe Machine & Stamping Company, The. (See Green, Lee B., assignor.)
Gluck, Fred C., assignor to The Coated Paper Products Company, Minerva, Ohio. Container. 1,920,074; July 25.
Gockstetter, George, Canton, Ohio. Lock for light bulbs. 1,920,011; July 25.
Goepfrich, Rudolph A., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Brake shoe. 1,919,550; July 25.
Goff, Robert W., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,919,979; July 25.

Goldsborough, John B., Croton-on-Hudson, assignor to Underpinning and Foundation Company, New York, N. Y. Jacketed apparatus for converting organic matter. 1,919,836; July 25.
Goldstein, Alec S. (See Welkovitz, N., and Goldstein.)
Goldstein-Wilkins Corporation. (See Christen, Marcel, assignor.)
Goldstein-Wilkins Corporation. (See Speck, Walter, assignor.)
Goldstein-Wilkins Corporation. (See Susi, Michelangelo, assignor.)
Goldwyn, Herman. (See Havel, Paul E., assignor.)
Good Inventions Co. (See Good, John, assignor.)
Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Internal combustion engine. 1,920 012; July 25.
Goodrich, B. F., Company, The. (See Beal, Carl L., assignor.)
Goodrich, B. F., Company, The. (See Bedur, George K., assignor.)
Goodrich, B. F., Company, The. (See Beebe, John D., assignor.)
Goodrich, B. F., Company, The. (See Crawford, R. A., and Schoenfeld, assignors.)
Goodrich, B. F., Company, The. (See Endres, Herbert A., assignor.)
Goodrich, B. F., Company, The. (See Farrington, Thayer B., assignor.)
Goodrich, B. F., Company, The. (See Fowler, Fred D., assignor.)
Goodrich, B. F., Company, The. (See Gray, Harold, assignor.)
Goodrich, B. F., Company, The. (See Haines, Walter T., assignor.)
Goodrich, B. F., Company, The. (See Jones, Paul C., assignor.)
Goodrich, B. F., Company, The. (See Leguillon, Charles W., assignor.)
Goodrich, B. F., Company, The. (See Maclachlan, A. D., and Freund, assignors.)
Goodrich, B. F., Company, The. (See Schade, James W., assignor.)
Goodrich, B. F., Company, The. (See Semon, Waldo L., assignor.)
Goodrich, B. F., Company, The. (See Slusher, Frank, assignor.)
Goodrich, B. F., Company, The. (See Steele, Charles W., assignor.)
Good Roads Company. (See Dean, Allan L., assignor.)
Goost, Theodor. (See Klingemann, F., Lommel, Korten, and Goost.)
Gorton, George, Racine, Wis. Grinding machine and the like. 1,920,073; July 25.
Goss, John H. (See Reuttet, Frederick, and Goss.)
Gotthardt, Henry R., assignor to Logan Co. Inc., Louisville, Ky. Conveyer. 1,919,837; July 25.
Gould Coupler Company, The. (See Richards, Willard F., assignor.)
Govers, Francis X., Vincennes, Ind., assignor to Indiana Refining Company, Lawrenceville, Ill. Recovery and purification of lubricating oils from mineral oils. 1,920,125; July 25.
Govers, Francis X., Vincennes, Ind., assignor to Indian Refining Company, Lawrenceville, Ill. Filtration. 1,920,126; July 25.
Grautonic, John J., Mingo Junction, Ohio. Mechanical pool-ball racking device. 1,919,296; July 25.
Gray, Harold, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Adhering rubber to metal. 1,919,718; July 25.
Grayson Heat Control, Inc. (See Vaughn, Sidney P., assignor.)
Green, Lee B., Lakewood assignor to The Globe Machine & Stamping Company, Cleveland, Ohio. Beverage water heater. 1,920,013; July 25.
Green, Morris, Scranton, Pa. Shrine. Des. 90,366; July 25.
Green, Stanley S., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Circuit controller. 1,920,029; July 25.
Green, Stanley S., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Circuit controller. 1,920,030; July 25.
Green, Stanley S., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Electric switch. 1,920,031; July 25.
Green, Stanley S., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Circuit controller. 1,920,032; July 25.
Green, Stanley S., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Controller for electric circuits. 1,920,033; July 25.
Green, Stanley S., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Controller for electric circuits. 1,920,034 July 25.
Grenier, Leopold E., jr., New York, N. Y. Clinical thermometer. 1,919,630; July 25.
Griffin, Claude, assignor of one-half to Samuel Sunserie, Portland, Oreg. Mechanic's square. 1,919,551; July 25.
Griffin, George E., Brooklyn, N. Y. Liquid flow controlling device. 1,919,631; July 25.
Griffin, Roger L., and J. T. O'Neil, Peabody, assignor to A. C. Lawrence Leather Company, Boston, Mass. Stretching machine. 1,919,649; July 25.
Griffith, Ronald G., assignor to Creed and Company, Limited, Croydon, England. Printing telegraph receiving apparatus having case grouping of characters. 1,919,885; July 25.
Griffith, William B., Audubon, N. J., assignor to Star Sprinkler Corporation, Philadelphia, Pa. Sprinkler fire extinguishing system. 1,919,507; July 25.
Griffith, William B., Audubon, N. J., assignor to Star Sprinkler Corporation, Philadelphia, Pa. Automatic fire apparatus. 1,919,508; July 25.
Gröbl, Josef, Solln near Munich, assignor to the Firm Bayernwerk Aktiengesellschaft, Munich, Germany. Multiple lay cable. 1,919,509; July 25.
Groff, Frazier, Charleston, W. Va., assignor to Carbide & Carbon Chemicals Corporation. Impregnated product and making the same. 1,919,697; July 25.
Gross, Charles M. (See Le Clair, T. G., and Gross.)
Grosskinsky, Otto. (See Schmidt, O., and Grosskinsky.)
Guarino, Salvatore. (See Morreale, O., and Guarino.)
Guarnaschelli, Stephen. (See Picece, Angelo, and Guarnaschelli.)
Guibert, Francis W. (See Crosby, Walter O., assignor.)
Gulf Research & Development Corporation. (See Chenault, Roy L., assignor.)
Gump, B. F., Company. (See Williams, William M., assignor.)
Gunn, D. H., et al. (See Gillis, William H., assignor.)
Gunn, H. B. et al. (See Gillis, William H., assignor.)
Gunn, Ross, Washington, D. C. Thunderstorm or electric field and potential indicator. 1,919,215; July 25.
Hadly, James Torrence, Berwyn, Pa. Nested base for lamps, etc. 1,919,838; July 25.
Haenichen, Wilhelm, Berlin, Germany. Cartridge for guns and ordnances. 1,920,075; July 25.
Hagan, George J., Pittsburgh, Pa. Rotary furnace. 1,919,650; July 25.
Hagel, Albert, Newark, assignor to Consolidated Safety Pin Company, Bloomfield, N. J. Holder for cosmetics. 1,919,785; July 25.
Hahnemann, Walter, Berlin-Marienfelde, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Antenna for short and ultra-short waves. 1,920,156; July 25.
Haigis, Carleton D., Haddonfield, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Sound radiator. 1,919,632; July 25.
Haines, Walter T., Stow, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber lining for acid containers. 1,919,366; July 25.
Hall, Charles L., Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Nut for nut and screw fastened installations. 1,919,940; July 25.
Hall, Charles L., Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastener setting device. 1,919,941; July 25.
Hall & McChesney. (See Cooper, James, assignor.)
Hall, W. F., et al. (See Pippin, John W., assignor.)
Hamdorf. (See Fett, Minna.)
Hamm, William S., and H. D. Sevison, Elkhart, Ind., assignors to The Adlake Company, Chicago, Ill. Sash guide. 1,919,367; July 25.
Handforth, Stanley L., and W. E. Kirst, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Ammonia oxidation. 1,919,216; July 25.
Hanelt, William, Chicago, Ill. Rotary brush. 1,920,077; July 25.
Haniel & Lueg G. m. b. H. (See Besigk, Wilhelm H., assignor.)
Hansen, Augie L., assignor to A. L. Hansen Mfg. Company, Chicago, Ill. Refrigerator doorlock. 1,919,328; July 25.
Hansen, A. L., Mfg. Company. (See Hansen, Augie L., assignor.)
Hansen, A. L., Mfg. Co. (See Krantz, Edward, assignor.)
Happel, Albert, Toledo, Ohio, assignor, by mesne assignments, to United States Quarry Tile Company, Parkersburg, W. Va. Machine for truing tile. 1,920,076; July 25.
Hardy, Frank H., Andover, Mass. Dabbing brush. 1,919,786; July 25.
Hargreaves, Herbert, assignor to J. W. Watson, Philadelphia, Pa. Motor vehicle brake. 1,920,078; July 25.
Harper, Clair C., Rochester, and E. F. Kitendaugh, Oneida, assignors to Error No Inc., Little Falls, N. Y. Copy holder. 1,919,429; July 25.
Harrington, George G., assignor to Reed Roller Bit Company, Houston, Tex. Apparatus for lowering pipes in wells. 1,919,510; July 25.
Harris, Donald B., and O. W. Knauss, assignors to Program Service Company, St. Paul, Minn. Transmission system for sound carrying currents. 1,919,719; July 25.
Hartmann, Julius F. G. P., Copenhagen, Denmark. Apparatus for commutating or periodically interrupting electric currents. 1,919,633; July 25.
Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Pivotal coupler. 1,919,720; July 25.
Hasselquist, Hugo S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Attaching grommets to metal plates. 1,919,552; July 25.
Hastings Equity Grain Bin Manufacturing Company, The. (See Einsel, E. D., and Nelson, assignors.)
Hauge, Andrew, Michigan City, Ind., assignor to Sullivan Machinery Company. Loading machine. 1,919,217; July 25.

Haupt, Charles H., Elizabeth, and A. J. Ely, Roselle, N. J., assignors to Standard Oil Development Company. Floatable roof for tanks. 1,919,634; July 25.
Havel, Paul E., assignor to G. I. Goldwyn and H. Goldwyn, Chicago, Ill. Folder for sewing machines. 1,919,942; July 25.
Havill, Clinton H., South Orange, assignor to Eclipse Aviation Corporation, East Orange, N. J. Driving mechanism. 1,920,079; July 25.
Hawthorne, Herbert J., Conroe, Tex. Detachable blade drag bit. 1,919,553; July 25.
Hay, Stephen. (See Leech, W. J. B., Hay, Hollings, and Burton.)
Hayes, Frank A., Middletown, N. J. Variable speed power transmission mechanism. 1,919,218; July 25.
Hays, Albert B. (See Thomas, H. T., Furgason, and Hays.)
Haythorne, Will K., San Antonio, Tex. Commercial display unit. Des. 90,367; July 25.
Heald Machine Company. (See Booth, Clement, assignor.)
Heath, Sheldon B., and H. A. Reimers, assignors to The Dow Chemical Company, Midland, Mich. Making ammonium chloride. 1,919,943; July 25.
Heath, Spencer, assignor to The American Propeller Company, Baltimore, Md. Blade for windmill impellers. 1,919,588; July 25.
Heckmanns, Frans. (See Lehmann, R., Heckmanns, Dobmaier, and Willems.)
Helgis, Henry E., West Orange, N. J., assignors to Walter Kidde & Company, Inc., New York, N. Y. Stored pressure medium container. 1,920,127; July 25.
Helgeby, Ralph O., assignor to A C Spark Plug Company, Flint, Mich. Quick reset mechanism for odometers. 1,919,511; July 25.
Helgeby, Ralph O., and D. D. Waller, assignors to A C Spark Plug Company, Flint, Mich. Spur gear speed adapter. 1,919,512; July 25.
Helsel, Reuben H., Long Island City, assignor to General Register Corporation, Brooklyn, N. Y. Clutch. 1,919,651; July 25.
Helsel, Reuben H., Long Island City, assignor to General Register Corporation, Brooklyn, N. Y. Check-issuing machine. 1,919,652; July 25.
Henningsen, Carleton, Buffalo, assignor, by mesne assignments, to Du Pont Rayon Company, New York, N. Y. Purification of cellulose. 1,919,329; July 25.
Herman, Fred W. (See Laddon, I. M., Ring, and Herman.)
Herrmann, Walter. (See Streitwolf, Karl, Fehrle, and Herrmann.)
Herrmann, Willy O., and R. Baum, assignors to Consortium fur Elektrochemische Industrie, G. m. b. H., Munich, Germany. Adding hydrogen halide to acetylene. 1,919,886; July 25.
Hessling-De Werner, Elvire. (See Hessling, Waldemar, assignor.)
Hessling, Waldemar, Geneva, assignor to Elvire Hessling-De Werner, Veytaux-Territet, Switzerland. Apparatus for the agglomeration of solid carbon dioxide. 1,919,698; July 25.
Hewitt, Ellis E. (See Farmer, C. C., and Hewitt.)
Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Double check valve device. 1,919,430; July 25.
Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Control valve for retaining valves. 1,919,431; July 25.
Heywood-Wakefield Company. (See Stinson, George, assignor.)
Hicks, Harry E., Palmyra, assignor to Acme Staple Company, Camden, N. J. Staple setting machine. 1,919,944; July 25.
Highway Trailer Company. (See Molinare, Anthony W., assignor.)
Hilgers, Frans, Rodenkirchen, Germany. Pipe-bending machine. 1,919,839; July 25.
Hill, Raymond A., Los Angeles, Calif. Hydraulic sand extractor. 1,919,653; July 25.
Hillidring, Carl F. (See Durant, K. J., and Hillidring.)
Hillery-Collings, Charles E., assignor, by mesne assignments, to Camera-Projectors Limited, London, England. Focusing means for photographic cameras and projectors. 1,919,513; July 25.
Hineline, Edson S. (See Petit, W. H., and Hineline.)
Hitchcock, Rex B. (See Lindgren, A. C., Raney, and Hitchcock.)
Hoague-Sprague Corporation. (See Knowlton, Cutler D., assignor.)
Hochwalt, Carroll A., and J. B. Wallusxis, Dayton, Ohio, assignors to Morton Salt Company, Chicago, Ill. Preparation of bromates. 1,919,721; July 25.
Hodgson, William H., Moose Jaw, Saskatchewan, Canada. Tire patch. 1,919,368; July 25.
Hoffa, Erwin, and E. Thoma, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Azo dyestuff insoluble in water. 1,919,589; July 25.
Hoffa, Erwin, and E. Thoma, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Blue to violet-blue water-insoluble azodyestuffs. 1,919,590; July 25.
Hoffman, Morris J., Chicago, Ill., assignor to The Tabulating Machine Company, New York, N. Y. Card printing and punching mechanism. 1,919,219; July 25.
Hoffman, Walter G., Mount Lebanon, and J. R. Miller, assignors, by mesne assignments, to Bocji Corporation, Pittsburgh, Pa. Purification of oil. 1,919,655; July 25.
Hoffmann, Daniel C., Philadelphia, Pa., assignor to General Electric Company. Control of electric circuits. 1,919,980; July 25.
Hofmann, Max, assignor to Waukesha Motor Company, Waukesha, Wis. Coupling. 1,919,654; July 25.
Holaday, Horace A., Highland Park, and A. Black, New Brunswick, N. J., assignors to E. R. Squibb & Sons, New York, N. Y. Preparing fat-soluble-vitamin concentrates. 1,919,369; July 25.
Hollings, Harold. (See Leech, W. J. B., Hay, Hollings, and Burton.)
Holm, Ludwig, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Housing of electrical switches or distribution boxes. 1,919,432; July 25.
Holst, Lodewyk J. R. (See Baker, F., jr., and Holst.)
Holzwarth Gas Turbine Co. (See Holzwarth, Hans, assignor.)
Holzwarth, Hans, Dusseldorf, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif. Power plant. 1,920,142; July 25.
Holzwarth, Hans, Dusseldorf, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif. Explosion turbine plant. 1,920,143; July 25.
Hoobler, Elba V., Waterville, Ohio. Knee kicker. 1,919,840; July 25.
Hookless Fastener Company. (See Corner, George H. C., assignor.)
Hoos, Benjamin G. (See Schur, M. O., and Hoos.)
Hornung, John C., Glencoe, Ill. Temperature regulation system. 1,919,330; July 25.
Horton, Erwin C. (See Hueber, H., and Horton.)
Horton, Erwin C., Hamburg, and Henry Hueber, assignors to Trico Products Corporation, Buffalo, N. Y. Multiple diaphragm pump. 1,920,014; July 25.
Hough, Clinton Wallace, assignor to Wired Radio, Inc., New York, N. Y. Multiple signaling system. 1,919,888; July 25.
Howard, Everett C., Belchertown, Mass. Strawberry plant. Pl. Pt. 71; July 25.
Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Tripod head or the like. 1,919,554; July 25.
Hueber, Henry. (See Horton, E. C., and Hueber.)
Hueber, Henry, assignor to Trico Products Corporation, Buffalo, N. Y. Wiper arm and mounting therefor. 1,920145; July 25.
Hueber, Henry, Buffalo, and E. C. Horton, Hamburg, assignors to Trico Products Corporation, Buffalo, N. Y. Aeroplane window cleaner. 1,920,144; July 25.
Hueber, Henry, Buffalo, and E. C. Horton, Hamburg, assignors to Trico Products Corporation, Buffalo, N. Y. Fluid operated motor. 1,920,146; July 25.
Hueber, Henry, assignor to Trico Products Corporation, Buffalo, N. Y. Horn. 1,920,147; July 25.
Huffman Manufacturing Company, The. (See Huffman, Horace M., assignor.)
Huffman, Horace M., assignor to The Huffman Manufacturing Company, Dayton, Ohio. Burner for blow torches and the like. 1,919,945; July 25.
Huffman, Charles E., Montclair, N. J., assignor to Jenkins Television Corporation, Jersey City, N. J. Synchronizing system. 1,920,015; July 25.
Hughes Tool Company. (See Fletcher, Harold W., assignor.)
Hughes Tool Company. (See Ricker, Norman H., assignor.)
Humble Oil & Refining Company. (See Simpson, James A., assignor.)
Hutchings, Le Roi E., Buffalo, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Photographing copying apparatus. 1,919,433; July 25.
Hutchinson, Joseph M., assignor to E. J. Brach & Sons, Chicago, Ill. Apparatus for packaging candies or the like. 1,919,370; July 25.
Hutchinson, Philip H., Montclair, N. J., assignor to General Motors Corporation, Detroit, Mich. Gauging machine. 1,919,434; July 25.
Hvoslef, Fredrik W., Kohler, Wis. Radiator cabinet. 1,919,555; July 25.
Hyde-Murphy Company. (See Murphy, Walter P., assignor.)
Hydraulic Press Manufacturing Company. (See Ernst, Walter, assignor.)
Hyman, Julius, Chicago, Ill., assignor to Velsicol Corporation. Producing polymerized unsaturated hydrocarbons of relatively light color and product thereof. 1,919,722; July 25.
Hyman, Julius, Chicago, Ill., assignor to Velsicol Corporation. Manufacture of products containing oxygen-absorbing mineral hydrocarbon polymers. 1,919,723; July 25.
Hyslop, James. Terre Haute, Ind. Signal control for demand meters. 1,919,514; July 25.
I. G. Farbenindustrie Aktiengesellschaft. (See Acker, Hans, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Jordan, Otto, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Klingemann, F., Lommel, Korten and Goost, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Koenig, J., and Stoewener, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Schmidt, O., and Grosskinsky, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schönburg, Curt, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Stauf, Friedrich, W., assignor.)
Iannone, Michael. Rochester, N. Y. Boiler heater. Des. 90,368; July 25.
Illinois Tool Company. (See Swanson, Andrew W., assignor.)
Imhoff, Karl, Essen, Germany. Household filter. 1,919,331; July 25.
Imperial Chemical Industries Limited. (See Chapman, Ernest, assignor.)
Impey, Warwick W., Mount Eden, Auckland, New Zealand. Wire mattress. 1,919,841; July 25.
Indian Refining Company. (See Govers, Francis X., assignor.)
Indiana Glass Company. (See Moller, Herbert, assignor.)
Ingersoll-Rand Company. (See Bancel, Paul A., assignor.)
Ingersoll-Rand Company. (See Fuehrer, George H., assignor.)
International Check Endorser Co., The. (See Lyman, W. H., and Rix, assignors.)
International Communications Laboratories, Inc. (See Clokey, Allison A., assignor.)
International Communications Laboratories, Inc. (See Ports, Earl G. and Miller, jr., assignors.)
International Corset Company. (See Schopbach, Charles H., assignor.)
International Harvester Company. (See Baker, D. B., Rogers and Pansegrau, assignors.)
International Harvester Company. (See Frick, H. A., and Rouse, assignors.)
International Harvester Company. (See Lindgren, A. C., Raney and Hitchcock, assignors.)
International Harvester Company. (See Lyford, Robert E., assignor.)
International Industrial & Chemical Company. (See Deguide, Camille, assignor.)
International Safety Lock Nut Corporation. (See D'Halloy, Audoin, assignor.)
Ireland, Dwight B., et al, executors. (See Ireland, George E.)
Ireland, Edith M., et al., executors. (See Ireland, George E.)
Ireland, George E., deceased, Toledo, Ohio. E. M. Ireland and D. B. Ireland, executors. Combined hood top and radiator shell for automobiles and the like. 1,919,656; July 25.
Irish, Carleton G., T. B. Burrington, and F. M. Thomas, Rapid City, S. Dak. Gas burner. 1,919,591; July 25.
Jacquemin, Francois L. E., Paris, France, assignor to Societe Anonyme des Ondes Dirigees. Radio direction, locating observation and the like. 1,919,556; July 25.
Jaeger, Alphons O., Mount Lebanon, L. C. Daniels and H. J. West, Crafton, assignors to The Selden Company, Pittsburgh, Pa. Manufacture of imides of dicarboxylic acids. 1,919,889; July 25.
Jaeger Machine Company, The. (See Eggert, Joseph, assignor.)
Jaicks, Wilson A., Chicago, Ill. Apparatus for mixing concrete. 1,919,220; July 25.
Jaicks, Wilson A., Chicago, Ill. Apparatus for mixing concrete. 1,919,724; July 25.
Janes, Harry S., Shanghai, China. Multiple grip handle. 1,919,221; July 25.
Jansson, Gustav E., Atlantic, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Electric distribution system. 1,919,466; July 25.
Jarvis & Jarvis, Inc. (See Patterson, Oliver W., assignor.)
Jarvis, W. B., Company. (See Andrie, Michael B., assignor.)
Jean, Marcel C., and P. Matile, Montereau, France, assignors to Societe l'Air Liquide, Societe Anonyme pour l'Etude A l'Exploitation. des Procedes Georges Claude. Treatment of gaseous mixture des containing hydrogen. 1,919,842; July 25.
Jefferson Electric Company. (See Bohlman, Ernest A., assignor.)
Jeffery Manufacturing Company, The. (See Muller, Ernst F., assignor.)
Jenkins, Arthur E., Timmins, Ontario, Canada. Electro-gravity lock. 1,920,080; July 25.
Jenkins Television Corporation. (See Huffman, Charles E., assignor.)
Jennison, Herbert C., Bridgeport, assignor to The American Brass Company, Waterbury, Conn. Copper base alloy. 1,919,725; July 25.
Jensen, Henry M., and J. E. Gingrich, U. S. Navy, and G. Medina, Washington D. C. Navigational instrument. 1,919,222; July 25.
Jewell, Robert H., Overland, Mo. Amusement apparatus. 1,919,467; July 25.
John, Robert, New York, N. Y. Laminated rigid structural material. 1,920,081; July 25.
Johnson, Carl E., Pasadena, assignor to Sterling Electric Motors, Los Angeles, Calif. Shielded motor assembly. 1,919,557; July 25.
Johnson, Charles, Montreal, Quebec, Canada. Paper machine wire and making same. 1,919,843; July 25.
Johnson, De Fay, et al. (See Dozier, Joseph V., assignor.)
Johnson, Ernest S., assignor to Knapp-Monarch Company, Webster City, Iowa. Electric heater. 1,919,558; July 25.
Johnson, Ernest S., assignor to Knapp-Monarch Company, Webster City, Iowa. Electric bread toaster. 1,919,559; July 25.
Johnson, Gustav, West Roxbury, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Slide fastener. 1,919,946; July 25.
Johnson, James W. (See Sjogreen, S. A., and Johnson.)
Johnson, William G. (See Kyle, William D., and Johnson.)
Johnston, Charles W., Portsmouth, Va., assignor to Virginia Smelting Company, Portland, Maine. Recovering metals and metallic oxides. 1,919,947; July 25.
Johnston, Greenhow, Glen Allen, assignor of one-half to G. Maury, jr., Richmond, Va. Machine gun mount and locking device therefor. 1,919,223; July 25.
Jones & Laughlin Steel Corporation. (See Littler, Carl W., assignor.)
Jones, Lester L., Oradell, N. J. Apparatus for suppressing interference in radio selector systems. 1,919,948; July 25.
Jones Oil Well Surveying Service, Ltd. (See Jones, Philip, assignor.)
Jones, Oscar V., assignor of three-eighth to F. E. Voories, Dallas, Tex. Tong. 1,919,468; July 25.
Jones, Paul C., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber composition and preserving rubber. 1,919,726; July 25.
Jones, Philip, Los Angeles, Calif., assignor to Jones Oil Well Surveying Service, Ltd. Bore-hole surveying device. 1,919,832; July 25.
Jordan, Otto, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of lacquers, artificial masses and solutions of their constituents. 1,919,727; July 25.
Joseph, Norbert G. (See Pease, O. E., and Joseph.)
Josephson, Walter S., Brooklyn, assignor to Dryice Corporation of America, New York, N. Y. Container for refrigerant. 1,920,082; July 25.
Jurrens, Emil G., and H. K. Becker, assignors to Peters Machinery Co., Chicago, Ill. Carton forming machine. 1,919,787; July 25.
Kamborian, Jacob S., West Newton, assignor to Northern Machine Co., Inc., Boston, Mass. Shoe and lasting the same. 1,919,657; July 25.
Kamborian, Jacob S., West Newton, assignor to Northern Machine Co., Inc., Boston, Mass. Manufacture of shoes. 1,919,658; July 25.
Kamborian, Jacob S., West Newton, assignor to Northern Machine Co., Inc., Boston, Mass. Lasting shoes. 1,919,659; July 25.
Kamborian, Jacob S., West Newton, assignor to Northern Machine Co., Inc., Boston, Mass. Shoe lasting apparatus. 1,919,660; July 25.
Kamborian, Jacob S., Watertown, assignor to Northern Machine Co., Inc., Boston, Mass. Shoe bottom treating device. 1,920,083; July 25.
Kaminski, Ludwik, assignor to Cornell-Unity, Inc., New York, N. Y. Shoe or similar article. Des. 90,369; July 25.
Kane, Edmund J., Chicago, Ill. Excavating machine. 1,919,515; July 25.
Karrick, Samuel N., Baltimore, Md. System of mining oil shales. 1,919,636; July 25.
Karron, David, Brooklyn, N. Y. Hand bag. 1,919,333; July 25.
Kates, Abraham, Philadelphia, Pa. Spectacles. 1,919,731; July 25.
Kauffman, Albert J., assignor to Trans Ad Incorporated, New York, N. Y. Changeable exhibitor. 1,920,084; July 25.
Kearney, James R., Corporation. (See Bay, Charles A., assignor.)
Kelzer, Harold, Concord, Mass. Waffle extractor. 1,919,469; July 25.
Kellogg, Harry F., assignor to Central Screw Company, Chicago, Ill. Wing nut. 1,919,728; July 25.
Kelly, John L., St. Louis, Mo. Anti-glare shield for headlights. 1,919,224; July 25.
Kemmerer, Ralph R., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 1,919,279; July 25.
Kempton, Leslie A., Trumbull, Conn., assignor to General Electric Company. Electric heating system. 1,919,949; July 25.
Kent, Everett E. (See Allen, Stratford B., assignor.)
Keozh, Robert, Hollis, assignor to Star Company, New York, N. Y. Camera attachment. 1,919,635; July 25.
Kern, Erwin, Wettingen, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Control system for electric current rectifiers. 1,919,890; July 25.
Kerr, Howard J., Westfield, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Tube for mercury boilers. 1,919,334; July 25.
Kerr, Howard J., Westfield, and H. E. Melton, Jersey City, assignors to The Babcock & Wilcox Company, Bayonne, N. J. Vapor generating unit. 1,919,335; July 25.
Kerr, Robert M., assignor to Detroit Dental Manufacturing Company, Detroit, Mich. Dental water heater. 1,919,950; July 25.

Kharasch, Morris S., Chicago, Ill., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Seed and plant disinfectant. 1,919,729; July 25.
Kharasch, Morris S., Chicago, Ill., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Seed disinfectant composition. 1,919,732; July 25.
Kidde, Walter, & Company. (See Helgis, Henry M., assignor.)
Kielberg, Henry, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Gas burner. 1,919,788; July 25.
Kimball, Arthur W., Newton Center, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Snap fastener installation. 1,919,951; July 25.
King, Frank. (See Amy, E. V., and King.)
King, Howard K., Philadelphia, Pa., assignor to Chambers Brothers Company. Pressure control for muller rollers. 1,919,225; July 25.
Kingston Products Corporation. (See Linga, Torbjorn, assignor.)
Kinnear, Leland P., Beaumont, Tex. Drilling wells. 1,919,844; July 25.
Kinnear, Leland P., Beaumont, Tex. Well drilling apparatus. 1,919,845; July 25.
Kirby, Charles H., assignor to Marvel Carbureter Company, Flint, Mich. Carburetor. 1,919,470; July 25.
Kirst, William E. (See Handforth, S. L., and Kirst.)
Kitendaugh, Eugene F. (See Harper, C. C., and Kitendaugh.)
Klein, Hedwig M., executrix. (See Lichtenstein, Ludwig.)
Klein, Jakob. (See Lichtenstein, L., and Klein.)
Klemm, William J., Chicago, Ill. Window structure. 1,919,371; July 25.
Klepper, Irving C., Cleveland, Ohio, assignor to Multigraph Company, Wilmington, Del. Paper feeding mechanism. 1,919,226; July 25.
Kliefoth, Max H., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Porous molded product and manufacturing the same. 1,919,372; July 25.
Klingemann, Felix, Frankfort-on-the-Main-Mainkur, W. Lommel, Wiesdorf, near Cologne-on-the-Rhine, E. Korten, Frankfort-on-the-Main-Fechenheim, and T. Goost, Leverkusen, near Cologne-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft. Manufacturing ar-tetrahydronaphthylamine compounds. 1,919,592; July 25.
Kloes, F. J., Incorporated. (See Pease, O. E. and Joseph, assignors.)
Knapp, Andrew W., assignor to Knapp-Monarch Company, Belleville, Ill. Waffle iron assembly. 1,919,560; July 25.
Knapp-Monarch Company. (See Johnson, Ernest S., assignor.)
Knapp-Monarch Company. (See Knapp, Andrew S., assignor.)
Knauss, Orville W. (See Harris, D. B., and Knauss.)
Knerr, Horace C., Philadelphia, Pa., assignor to Ajax Electrothermic Corporation, Ajax Park, N. J. Tempering bath. 1,919,846; July 25.
Knowlton, Cutler D., Beverly, assignor to Hoague-Sprague Corporation, Lynn, Mass. Box and blank therefor. 1,919,780; July 25.
Knox, Harry A., and B. F. Baker, Davenport, Iowa. Power plant. 1,919,227; July 25.
Knutson, Carl L., Maywood, assignor to Cinch Manufacturing Corporation, Chicago, Ill. Binding post. 1,919,952; July 25.
Knutson, Carl L., Maywood, assignor to Cinch Manufacturing Corporation, Chicago, Ill. Binding post. 1,919,953; July 25.
Koch, Herbert, assignor of one-half to John Slaby, Algoma, Wis. Hedge trimmer or clipper. 1,919,516; July 25.
Koch, Lydia B. (See Oliver, Ruth, assignor.)
Kodama, Seisuke. (See Konishi, K., and Kodama.)
Koenig, Josef, and F. Stoewener, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Porous metal and metal oxide. 1,919,730; July 25.
Kögel, Gustav, Baden-Baden, Germany. Concave mirror. 1,919,561; July 25.
Konishi, Koji, Kyobashi-Ku, Tokyo, and Seisuke Kodama, Suginami-machi, Toyotama-gun, Tokyo-Fu, Japan. Providing a transparent coating on glass surfaces. 1,919,517; July 25.
Koons, Charles V. (See Weingartner, A. E., and Koons.)
Koots, Arthur C., Milwaukee, Wis. Mop. 1,919,471; July 25.
Korten, Ernst. (See Klingemann, F., Lommel, Korten, and Goost.)
Kottman, Arthur A., Davenport, assignor, by mesne assignments, to The Micro Corporation, Bettendorf, Iowa. Feed mechanism for grinding machines. 1,919,790; July 25.
Kracker, Herbert. (See Wagner, H., and Kracker.)
Kraftile Co. (See Myers, Albert C., assignor.)
Krants, Edward, assignor, by mesne assignments, to A. L. Hansen Mfg. Co., Chicago, Ill. Stapling machine. 1,919,373; July 25.
Krang, Curtis G., assignor to Addressograph Company, Chicago, Ill. Printing machine. 1,919,954; July 25.
Kransfelder, Edgar, Washington, D. C. Hat storage box. 1,919,562; July 25.
Kranzlein, Georg, Frankfort-on-the-Main-Hochst, A. Wolfram, Frankfort-on-the-Main-Rodelheim, and W. Broeker, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Preparing 1-amino-10-anthrones and the products obtainable thereby. 1,919,563; July 25.
Krause, Hans Friedrich Alfred Emil. (See Suchy, R., and Krause.)
Krause, Norman R. (See MacGregor, W. F., and Krause.)
Kropp, Walter, F. Lange, and A. Bohne, Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Vitamin preparations containing lipoid soluble vitamins. 1,919,297; July 25.
Kruimel, Joan H. A., Bloemendaal, Netherlands. Machine for winding paper belts. 1,919,518; July 25.
Kuehn, Lawrence J., Milwaukee, Wis. Ophthalmic bridge mounting. 1,919,336; July 25.
Kuensel, S. H. Hunter, assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Cowl ventilator. 1,919,733; July 25.
Kuns, Adolph B., Phoenix, Ariz. Centrifugal air or gas injector. 1,919,847; July 25.
Kusebauch, Anton K., Bellevue, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Train pipe coupling. 1,919,435; July 25.
Kyle, William D. and W. G. Johnson, Milwaukee, assignors to Line Material Company, South Milwaukee, Wis. Conduit. 1,919,734; July 25.
La Brie, Ludger E., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,919,519; July 25.
Laddon, Isaac M., W. A. Ring, and F. W. Herman, Dayton, Ohio, assignors to Bendix Brake Company, Chicago, Ill. Controlling means. 1,919,520; July 25.
Lagrange, Daniel and F. de Pape, Uccle, assignors to La Soudure Electrique Antogène, Société Anonyme, Brussels Belgium. Fusible electrode for electric welding. 1,920,148; July 25.
Lake, Dyer B. (See Dunn, T. E., Lake, and Youd, E. T.)
Lamson Company, The. (See Allen, Lavont C.)
Lane, George, New Haven, Conn., assignor to Audio Cinema Incorporated, Long Island City, N. Y. Apparatus for making animated pictures. 1,919,735; July 25.
Lang, Frederick, Cincinnati, Ohio. Drag line excavator. 1,919,228; July 25.
Langdon, Frank E., Carshalton, England. Machine for issuing tickets. 1,920,085; July 25.
Langdon-Engineering Corporation. (See Langdon, Jesse D., assignor.)
Langdon, Jesse D., assignor to Langdon Engineering Corporation, Los Angeles, Calif. Indicator. 1,919,436; July 25.
Lange, Fritz. (See Kropp, W., Lange, and Bohne.)
Langton, Charles E., London, England. Receptacle for granular or pulverulent condiments for table use. 1,919,280; July 25.
Lansing, Raymond P., Montclair, assignor to Eclipse Aviation Corporation, East Orange, N. J. Propeller. 1,920,086; July 25.
Larkin, John D., 3d, Buffalo, N. Y. Eye testing apparatus. 1,919,791; July 25.
Larson, John M., assignor to National Regulator Company, Chicago, Ill. Thermostatic controller. 1,919,337; July 25.
Lasker, George, Chicago, Ill. Marine boiler. 1,919,521; July 25.
La Soudure Electrique Antogène, Société Anonyme. (See Lagrange, Daniel, and De Pape, assignors.)
Lassen, Louis, Elizabeth, and W. Boehm, Roselle Park, N. J., assignor to Standard Oil Development Company. Chain pipe wrench. 1,919,593; July 25.
Lathrop, Elbert C. (See Munroe T. B., and Lathrop.)
Laughlin, William C., Kew Gardens, and A. B. Asch, Brooklyn, assignors to Filtration Equipment Corporation, New York, N. Y. Cleaning sewage filter beds. 1,919,564; July 25.
Laughlin, William C., Kew Gardens, and A. B. Asch, Brooklyn, assignors to Filtration Equipment Corporation, New York, N. Y. Cleaning sewage filter beds. 1,919,565; July 25.
Laughlin, William C., Kew Gardens, and A. B. Asch, Brooklyn, assignors to Filtration Equipment Corporation, New York, N. Y. Sewage clarification tank and cleaning machine therefor. 1,919,566; July 25.
Laughlin, William C., Kew Gardens, and A. B. Asch, Brooklyn, assignors to Filtration Equipment Corporation, New York, N. Y. Filter bed cleaning device for sewage clarification tanks. 1,919,567; July 25.
Laurent, Terbern. (See Lundell, T. A., and Laurent.)
Laurent, Terben. (See Vos, M., and Laurent.)
Lavett, Charles O., assignor, by mesne assignments, to Buffalo Foundry & Machine Co., Buffalo, N. Y. Rotary drier. 1,919,229; July 25.
Lavick, Samuel B., Chicago, Ill. Collar support. 1,919,661; July 25.
Lawrence, A. C., Leather Company. (See Griffin, R. L., and O'Neil, assignors.)
Le Clair, Titus G., Chicago, Ill. Relaying by current transformer and relays. 1,919,230; July 25.
Le Clair, Titus G., and C. M. Gross, Chicago, Ill. Unbalanced ratio relay scheme. 1,919,231; July 25.
Lee, Henry B., assignor to The Ludlow Valve Manufacturing Company, Troy, N. Y. Valve. 1,919,232; July 25.
Lee, Henry B., assignor to The Ludlow Valve Manufacturing Company, Troy, N. Y. Valve. 1,919,233; July 25.

Leech, William J. B., S. Hay, H. Hollings, and A. E. Burton, London, England. Gas offtake apparatus. 1,919,935; July 25.

Leemans, Joseph P., assignor to Societe Generale Metallurgique de Hoboken, Hoboken-les-Anvers, Belgium. Refining of copper. 1,919,699; July 25.

Le Fevre, Edwin K., Edgemoor, Md., assignor to Whitfield Engineering Company, District of Columbia. Shaft coupling. 1,919,437; July 25.

Lenat, Robert C., assignor to G. E. Prentice Manufacturing Company, New Britain, Conn. Locking slider. 1,919,662; July 25.

Leguillon Charles W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for forming articles of plastic material. 1,919,374; July 25.

Lehmann, Ernst P. (See Winzer, Charles B., assignor.)

Lehmann, Rudolf, Uerdingen-on-the-Rhine, F. Heckmanns, and K. Dobmaier, Leverkusen-on-the-Rhine, and J. Willems, Crefeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Disinfectants. 1,919,298; July 25.

Leigh, Fred A., Chicago, Ill. Mixing valve. 1,919,234; July 25.

Leingang, William C., Detroit, Mich. Charging circuit for storage batteries. 1,919,891; July 25.

Leingang, William C., Detroit, Mich. Control of the charge of a storage battery. 1,919,892; July 25.

Lenherr, Albert J. (See Regan, W. J., and Lenherr.)

Lentheric Incorporated. (See Tricard, Rene, assignor.)

Leslie, Frank G. (See Arthur, E. B., and Leslie.)

Le Sur, Pierre, Belfort, France, assignor to General Electric Company. Power installation. 1,919,981; July 25.

Le Tourneau, Robert G., Stockton, Calif. Sheave construction. 1,919,472; July 25.

Levene, Louis L., Merrick, N. Y. Doorcheck. 1,919,338; July 25.

Levin, Nils D., Columbus, Ohio. Stocking supporter. 1,919,299; July 25.

Levinson, Ruvin, Paris, assignor to Societe Anonyme: Le Mondial, Puteaux, Seine, France. Device for opening bulbs closed by welding and their application to fire extinguishers. 1,919,848; July 25.

Lewis, Edwin, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Molding. 1,919,300; July 25.

Lewis, Warren K., Newton, Mass., assignor to Standard Oil Development Company. Recovering volatile liquids from solvents and the apparatus therefor. 1,919,594; July 25.

Libbey-Owens-Ford Glass Company. (See Watkins, George B., assignor.)

Lichtenstein, Ludwig, Vienna, Austria, and J. Klein, deceased, Koenigshof, Czechoslovakia, by Hedwig Martha Klein, executrix, Baden, near Vienna, Austria. Vat dye printing. 1,919,792; July 25.

Lieberknecht, Karl R., Oberlungwitz, Germany. Lace attachment for flat knitting machines. 1,920,087; July 25.

Lindgren, Alexus C., Chicago, C. R. Raney, Riverside, and R. B. Hitchcock, Chicago, Ill., assignors to International Harvester Company. Tank for corn pickers. 1,919,339; July 25.

Lindstrom, Ture, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Plate for circuit breakers. 1,919,438; July 25.

Line Material Company. (See Kyle, William D., and Johnson, assignors.)

Linn, Torborn, assignor to Kingston Products Corporation, Kokomo, Ind. Engine. 1,919,793; July 25.

Link-Belt Company. (See Brandt, William F., assignor.)

Link, John H., Merion, Pa., assignor to W. H. Miner, Inc., Chicago, Ill. Draft rigging. 1,919,736; July 25.

Lionel Corporation, The. (See Caruso, Mario, assignor.)

Lipman, Carl E. L., assignor to Lipman Patents Corporation, Chicago, Ill. Electric motor. 1,919,522; July 25.

Lipman Patents Corporation. (See Lipman, Carl E. L., assignor.)

Little, Michael, St. Paul, Minn. Drum mounting for boilers. 1,919,893; July 25.

Lisa, Peter, et al. (See Moricca, Joseph, assignor.)

Little, Charles E., Melrose, assignor to Dover Stamping & Manufacturing Company, Cambridge, Mass. Display stand. 1,919,439; July 25.

Littler, Carl W., Aliquippa, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Tube manufacture. 1,919,637; July 25.

Livermore, H. F., Co. (See Livermore, Homer F., assignor.)

Livermore, Homer F., Brookline, assignor to H. F. Livermore, Co., Allston, Mass. Knife for thread-cutting temples. 1,919,633; July 25.

Livingston, John W., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway track brake. 1,919,956; July 25.

Lloyd, William L. (See Gallagher, W. R., jr., and Lloyd.)

Loepsinger, Albert, assignor to General Fire Extinguisher Company, Providence, R. I. Sprinkler head. 1,919,235; July 25.

Logan Co., Inc. (See Gotthardt, Henry R., assignor.)

Lommel, Wilhelm. (See Klingemann, F., Lommel, Korten, and Geest.)

Lonza Elektrizitatswerke und Chemische Fabriken Aktiengesellschaft. (See Lüscher, Emil, assignor.)

Lorenz, C., Aktiengesellschaft. (See Hahnemann, Walter, assignor.)

Lorimer, George W., Troy, Ohio, assignor, by mesne assignments, to Black Products Company, Chicago, Ill. Gas regulator. 1,919,894; July 25.

Love, Andrew, Paddington, New South Wales, Australia. Shoe fastening. 1,920,088; July 25.

Lowrey, George, et al. (See Pippin, John W., assignor.)

Ludlow Valve Manufacturing Company, The. (See Lee, Henry B., assignor.)

Ludium Steel Co. (See Edlund, Daniel L., assignor.)

Luedtke, Hans, Berlin-Tempelhof, Germany. Orchestral instrument. 1,919,849; July 25.

Lundberg, Olof, Saltsjobaden, Sweden. Water closet. 1,919,700; July 25.

Lundell, Torsten A., and T. Laurent, assignors to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Telephone system. 1,920,089; July 25.

Lunsford, Louis, assignor to Lunsford Manufacturing Co., Muskegon, Mich. Windshield cleaner. 1,919,236; July 25.

Lunsford Manufacturing Co. (See Lunsford, Louis, assignor.)

Lüscher, Emil, Basel, assignor to Firm Lonza Elektrizitatswerke und Chemische Fabriken Aktiengesellschaft, Basel and Gampel, Switzerland. Concentration of aqueous formic acid. 1,919,850; July 25.

Lüscher, Emil, Basel, assignor to Lonza Elektrizitatswerke und Chemische Fabriken Aktiengesellschaft, Gampel and Basel, Switzerland. Manufacture of formic acid from formates. 1,919,851; July 25.

Luthi, Walter, Ennetbaden, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland. Circuit breaker protective system. 1,919,895; July 25.

Lutz, Friedrich, assignor to Union Special Maschinenfabrik, G. m. b. H., Stuttgart, Germany. Ornamental stitch sewing machine. 1,919,852; July 25.

Lyford, Robert E., Chicago, Ill., assignor to International Harvester Company. Mechanically expansible element. 1,919,340; July 25.

Lyman, Walter H., and E. G. Rix, assignors to The International Check Endorser Co., Chicago, Ill. Check printing and photographing machine. 1,919,957; July 25.

Lynn, George, Wadsworth, E. M. Allen and B. K. Beecher, Barberton, Ohio, assignors to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Producing hydrogen sulphide. Re.18,902; July 25.

Lyon, Alfred J., Mount Clemens, Mich., and S. Daniels, Dayton, Ohio. Heat treatment for aluminum base alloys. 1,920,090; July 25.

Lyon Metal Products, Incorporated. (See Sherwood, Lewis R., assignor.)

M. & A. Inc. (See Auble, James L., assignor.)

MacGregor, Wallace F., assignor to J. I. Case Company, Racine, Wis. Combination thresher and windrow pickup. 1,919,896; July 25.

MacGregor, Wallace F., and N. R. Krause, assignors to J. I. Case Company, Racine, Wis. Combination harvester-thresher. 1,919,440; July 25.

MacGregor, Wallace F., and M. A. Richardson, assignors to J. I. Case Company, Racine, Wis. Baling machinery. 1,919,897; July 25.

Mack, Patrick H., Bradford, assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa. Well packer. 1,919,853; July 25.

Mack, Reinhold, Goppingen, Germany. Milk dispenser. 1,920,016; July 25.

Maclachlan, Andrew D., and K. E. Freund, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Rubber bearing structure. 1,919,375; July 25.

MacLaurin, James D., South Orange, N. J., assignor to Marathon Paper Mills Company, Rothschild, Wis. Apparatus for coloring and decorating paper. 1,919,798; July 25.

Madden, Jesse F., Rockville Center, N. Y. Ash receptacle. 1,920,091; July 25.

Maher, William W., San Francisco, Calif., assignor to American Can Company, New York, N. Y. Sheet metal container. 1,919,237; July 25.

Maine Seaboard Paper Company. (See Cram, Hervey G., assignor.)

Mancuso, Benjamin J., Batavia, N. Y. Cold air boot. 1,920,092; July 25.

Mantle Lamp Company, The. (See Schwarz, Eugene, assignor.)

Mantz, Harold A., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Thermostat. 1,919,473; July 25.

Marathon Paper Mills Company. (See MacLaurin, James D., assignor.)

Marbelite Corporation of America. (See Waggoner, Ralph, assignor.)

Marcy, Grosvenor D., Newton Highlands, assignor to Gillette Safety Razor Company, Boston, Mass. Safety razor. 1,919,794; July 25.

Marra, Nicholas, Woodside, N. Y. Producing a glassified surface. 1,920,093; July 25.

Marrison, Warren A., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Subharmonic frequency producer. 1,919,795; July 25.

Marrison, Warren A., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Mechanical vibrating element. 1,919,796; July 25.

Marsden, John E., Philadelphia, Pa., assignor to Gayner Glass Works, Salem, N. J. Storage battery. 1,919,341; July 25.

Marsh, Arthur B. (See Sharpe, Harry, assignor.)

Martin, Etta S., Chicago, Ill., assignor, by mesne assignments, to Bensel & Martin, East Orange, N. J. Safety razor. 1,919,737; July 25.

Martin, James W., jr., Yonkers, assignor, by mesne assignments, to Dryice Equipment Corporation, New York, N. Y. Method and apparatus for generating and using high pressure. 1,920,094; July 25.

Martin, Lewis E., St. Louis, Mo. Portable kitchen. 1,919,898; July 25.

Marvel Carbureter Company. (See Kirby, Charles H., assignor.)

Maschinenfabrik Augsburg-Nurnberg, A. G. (See Pielstick, Gustav, assignor.)

Masseau, Joseph W. J., St. Johns, Quebec, Canada. Cleaning apparatus. 1,919,854; July 25.

Mathieu, Marie E., Alencon, France. Safety device for overhead electric lines. 1,919,663; July 25.

Matile, Pascal. (See Jean, M. C., and Matile.)

Matson, Carl A., Lynnfield, Mass., assignor to The Matson Company, Concord, N. H. Reverse brake. 1,919,474; July 25.

Matson Company, The. (See Matson, Carl A., assignor.)

Maurer, Edwin R., Detroit, Mich., assignor to Thompson Products Incorporated, Cleveland, Ohio. Tie rod end. 1,919,797; July 25.

Maury, Greenhow, jr. (See Johnston, Greenhow, assignor.)

Mayer, Emil, Berlin-Schlachtensee, and E. Brüche, Berlin-Reinickendorf, Germany, assignors to General Electric Company, Compsee. 1,919,982; July 25.

McCain, Cecil C., Glen Ellyn, Ill., assignor to Addressograph Company, Wilmington, Del. Platen for printing and addressing machines. 1,919,958; July 25.

McCall, Thaddeus D., Imperial, Calif. Citrus fruit treating machine. 1,920,095; July 25.

McCarthy Business Machines Co., Inc. (See McCarthy, Florence, assignor.)

McCarthy, Florence, assignor, by mesne assignments, to McCarthy Business Machines Co., Inc., New York, N. Y. Sheet feeder. 1,919,238; July 25.

McClatchie, John M., assignor to The Borden Company, New York, N. Y. Overload release mechanism. 1,920,017; July 25.

McClure, Frances M., New York, N. Y., assignor to The Statton Furniture Manufacturing Company, Hagerstown, Md. Combined dresser and mirror. Des. 90,370; July 25.

McConway & Torley Company, The. (See Regan, W. J., and Lenherr, assignors.)

McCosh, Marshall K., Reisterstown, Md. Partition and wall. 1,919,568; July 25.

McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric signal system. 1,919,441; July 25.

McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 1,919,442; July 25.

McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Door control equipment. 1,919,443; July 25.

McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 1,919,444; July 25.

McFall, Thurlow E., Sparta, Mich. Knurled piston ring arbor. 1,919,289; July 25.

McGeorge, James A., London, England. Valve and cock. 1,919,856; July 25.

McIntosh Electrical Corporation. (See Doane, Leon L., assignor.)

McKinley, Charles W., assignor to A C Spark Plug Company, Flint, Mich. Rear vision mirror. 1,919,475; July 25.

McNamee, Owen A., Worcester, Mass. Safety apparatus. 1,919,445; July 25.

McNeil, Charles I., Bloomfield, assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J. Circuit controlling mechanism. 1,920,096; July 25.

Medart, Fred, Manufacturing Company. (See Albach, Frank.)

Medina, Guillermo. (See Jensen, H. M., Gingrich, and Medina.)

Meigs, Bassett & Slaughter, Inc. (See Bassett, H. P., and Simons, assignors.)

Meinhardt, Nicholas. (See Sonderman, A. F., and Meinhardt.)

Melick, John M., Cresskill, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone pay station receptacle. 1,919,799; July 25.

Melling, Herman W., Jackson, Mich. Lathe. 1,919,738; July 25.

Melton, Harry E. (See Kerr, H. J., and Melton.)

Merriam, Henry F., West Orange, N. J., assignor to General Chemical Company, New York, N. Y. Production of sulphur. 1,919,842; July 25.

Merrill, David R., Long Beach, and P. S. Clarke, Berkeley, assignors to Union Oil Company of California, Los Angeles, Calif. Treating acid sludges. 1,919,664; July 25.

Metafilters (1929) Limited. (See Pickard, Joseph A., assignor.)

Metal-Glass Products Co. (See Colvin, Isaac E., assignor.)

Meyer, Andre J., assignor to Continental Motors Corporation, Detroit, Mich. Engine. 1,919,476; July 25.

Meyer, Andre J., assignor to Continental Motors Corporation, Detroit, Mich. Clutch. 1,919,523; July 25.

Meyer, Henry A., and L. J. Bloch, assignors of one-half to The Wolf Machine Company, Cincinnati, Ohio, and one-half to Eastman Machine Company, Buffalo, N. Y. Rotary cloth cutting and severing machine. 1,919,899; July 25.

Michell-Crankless Engines Corporation. (See Sherman, Thomas L., assignor.)

Mickler, Raymond Y., Jacksonville, Fla., assignor to city of Jacksonville, Fla. Locking attachment. 1,920,128; July 25.

Micro Corporation, The. (See Kottman, Arthur A., assignor.)

Miller, Arthur E., assignor to Chain Belt Company, Milwaukee, Wis. Vehicle body for transporting mixed concrete. 1,920,149; July 25.

Miller, Charles, New York, N. Y. Shoe. Des. 90,371; July 25.

Miller, Charles, New York, N. Y. Shoe. Des. 90,372; July 25.

Miller, Charles, New York, N. Y. Shoe. Des. 90,373; July 25.

Miller, Franklin T. (See Antranikian, Haig, assignor.)

Miller, Herman P., jr. (See Ports, Earl G., and Miller, jr.)

Miller, James R. (See Hoffman, W. G., and Miller.)

Miller, Louis J., assignor to United Autographic Register Co., Chicago, Ill. Carbon supply device for a duplicating machine. 1,919,855; July 25.

Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Distillation of tar, etc. 1,920,097; July 25.

Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Distillation of tar. 1,920,163; July 25.

Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Method and apparatus for the distillation of tar. 1,919,240; July 25.

Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Distillation of tar. 1,919,241; July 25.

Mills, Bertram M., and G. K. Crossley, assignors to The Standard Engineering Works, Pawtucket, R. I. Control apparatus. 1,919,446; July 25.

Milne Chair Company. (See Morrison, Harold, assignor.)

Milwaukee Gas Specialty Company. (See Mantz, Harold A., assignor.)

Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)

Miner, W. H., Inc. (See Link, John H., assignor.)

Minshall, Robert J., assignor to Boeing Airplane Company, Seattle, Wash. Retractable landing gear. 1,919,524; July 25.

Minton, Paul H., Chatham, N. J. Absorbent filter for smoking appliances. 1,919,959; July 25.

Minzenmayer, Charles, San Francisco, Calif. Striker plate. 1,919,739; July 25.

Miyamoto, Shigenari, Tokyo, Japan, assignor to General Electric Company. Regulator control system. 1,919,960; July 25.

Molinare, Anthony W., Oak Park, Ill., assignor to Highway Trailer Company, Edgerton, Wis. Semitrailer and auxiliary support. 1,919,447; July 25.

Moller, Edward A., Baltimore, Md. Auger guide. 1,919,900; July 25.

Moller, Herbert, assignor to Indiana Glass Company, Dunkirk, Ind. Bowl or similar article. Des. 90,375; July 25.

Moller, Herbert, assignor to Indiana Glass Company, Dunkirk, Ind. Plate or similar article. Des. 90,374; July 25.

Montgomery, Thomas. (See Ewing, C. R., and Montgomery.)

Moody, Lewis F., Philadelphia, Pa. Reversible pump turbine. 1,919,376; July 25.

Moore, Frederick T., East Hartford, assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Cooling system for firearms. 1,919,242; July 25.

Moore, Roy C. (See Morreale, O., and Guarino, assignors.)

Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Hydraulic shock absorber. 1,920,098; July 25.

Moricca, Joseph, assignor of forty-nine per cent to P. Lisa, C. Reitano, and L. Fraterangelo, Olean, N. Y. Combined shade and guide map. 1,920,099; July 25.

Morreale, Onofrio, and S. Guarino, assignors of one-third to Roy C. Moore, Rochester, N. Y. Metal lock for gas meters. 1,919,701; July 25.

Morrill, Alfred R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Edge setting machine. 1,919,740; July 25.

Morrill, Herbert B., Salem, Mass. Regulating means. 1,919,281; July 25.

Morrill, Weston, Pittsfield, Mass., assignor to General Electric Company. Producing low loss nonaging silicon steel sheets. 1,919,983; July 25.

Morrison, Harold, assignor to Milne Chair Company, Chattanooga, Tenn. Chair. Des. 90,376; July 25.

Morton, Harold A., Akron, Ohio. Age resisting vulcanized rubber and antioxidant agent. 1,919,301; July 25.

Morton Salt Company. (See Hochwalt, C. A., and Waliuszis, assignors.)
Moss, William H., Cumberland, Md., assignor to Celanese Corporation of America, New York, N. Y. Synthetic resin and making the same. 1,920,100; July 25.
Muller, Ernst F., assignor to The Jeffery Manufacturing Company, Columbus, Ohio. Mine conveyer. 1,919,302; July 25.
Müller, Frederick W., Hoboken, N. J., assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio. Bottle filling machine and method. 1,919,665; July 25.
Multigraph Company. (See Klepper, Irving C., assignor.)
Multigraph Company. (See Rowell, George S., assignor.)
Munroe, Treadway B., and A. C. Lathrop, assignors to The Celotex Company, Chicago, Ill. Fiber storage and preservation. 1,920,129; July 25.
Munz, Elmer G. (See Brooks, John A., assignor.)
Munz, Elmer G. (See Munz, Harold R., assignor.)
Munz, Elmer G., Detroit, Mich. Rotary spraying device. 1,919,244; July 25.
Munz, Elmer G., Detroit, Mich. Sprinkler. 1,919,245; July 25.
Munz, Elmer G., Detroit, Mich. Rotary sprinkler. 1,919,246; July 25.
Munz, Elmer G., Detroit, Mich. Rotary sprinkler. 1,919,247; July 25.
Munz, Harold R., assignor to E. G. Munz, Detroit, Mich. Rotary sprinkler. 1,919,243; July 25.
Murdoch, Donald G. (See Adam, W. G., and Murdoch.)
Muros, Joseph, New York, N. Y., assignor to Gillette Safety Razor Company, Boston, Mass. Safety razor. 1,919,388; July 25.
Murphy, Edward A., U. S. Army, Raritan Arsenal, Metuchen, N. J. Fluid seal for rotatable members. 1,919,248; July 25.
Murphy, George F., Schenectady, N. Y., assignor to General Electric Company. Making grid structures. 1,919,984; July 25.
Murphy, Walter P., assignor to Hyde-Murphy Company, Ridgway, Pa. Flush door. 1,919,702; July 25.
Murray Corporation of America, The. (See Boyd, Cecil E., assignor.)
Muth, Friedrich. (See Schmelzer, A., Ballauf, and Muth.)
Myers, Albert C., assignor to Kraftile Co., Niles, Calif. Tile machinery. 1,919,639; July 25.
Myers, Albert C., assignor to Kraftile Co., Niles, Calif. Tile fabricating machinery. 1,919,640; July 25.
Myers, Harry L., assignor to The American Floor Surfacing Machine Company, Toledo, Ohio. Planetary type surfacing machine. 1,919,389; July 25.
Nafziger Corporation, The. (See Sticelber, Merlin A., assignor.)
Nagel, George E., Columbus, Ohio. Burial vault. 1,920,101; July 25.
Nash, John M., Milwaukee, Wis. Braking attachment for sanding machines. 1,919,477; July 25.
National Enameling & Stamping Company. (See Smith, Alva T., assignor.)
National Foam System, Inc. (See Boyd, Fisher L., assignor.)
National Regulator Company. (See Larson, John M., assignor.)
National Supply Company, The. (See Craig, Robert W., assignor.)
National Tube Company. (See Edwards, William E., assignor.)
National Tube Company. (See Olson, Olof F., assignor.)
National Tube Company. (See Rosenkranz, Max, assignor.)
Neill, Anna, et al. (See Ganary, Ralph T., assignor.)
Neill, Edward B., et al. (See Ganary, Ralph T., assignor.)
Nelson, Nels C. (See Einsel, E. D., and Nelson.)
Nesbitt, John J., Inc. (See Ewald, Warren, assignor.)
Nestle-Lemur Company, The. (See Seiter, Otto, assignor.)
Neubacher, Emil. (See Schmidt, M., and Neubacher.)
New Haven Clock Company, The. (See Porter, Wilson E., assignor.)
Newsom, John B., Bloomington, Ind. Cutting blocks of stone. 1,919,800; July 25.
Newsom, John B., Bloomington, Ind. Machine for making building blocks. 1,919,801; July 25.
Newton, Earle R. (See Curtis, Charles G., and Newton.)
Niagara Blower Company. (See Bulkeley, Claude A., assignor.)
Nielsen, Viggo, Balwyn, Melbourne, Australia. Apparatus for watering or spraying gardens and the like. 1,919,708; July 25.
Noble, F. H., & Co. (See Shields, John M., assignor.)
Nogosek, Stephen J., West Allis, Wis., assignor to Square D Company, Detroit, Mich. Motor control system. 1,919,525; July 25.
Nolan, Nicholas J., assignor to Advance Stamping Company, Detroit, Mich. Roller bearing and making the same. 1,920,102; July 25.
Nooman, Thomas J., Bayonne, assignor to J. Edward Ogden Company, East Orange, N. J. Expansion shield. 1,919,901; July 25.
Norquist, Victor C., and E. E. Treanor, assignors to Butler Manufacturing Company, Kansas City, Mo. Filter. 1,919,448; July 25.
Northern Machine Co. (See Kamborian, Jacob S., assignor.)
Norton Laboratories, Inc. (See Wilson, Gardiner C., assignor.)
Novak, Julius J., East Orange, N. J., assignor of one-fourth to Laurence A. Steinhardt, New York, N. Y. Propeller and flywheel. 1,919,961; July 25.
Novo Engine Company. (See Teel, Eric P., assignor.)
Nyce, Wallace E., Philadelphia, Pa. Intercell connector. 1,919,902; July 25.
Oetzel, George, Oakland, Calif., assignor to Fairbanks, Morse & Co., Chicago, Ill. Governor. 1,919,449; July 25.
Ogden, J. Edward, Company. (See Noonan, Thomas J., assignor.)
Ohio Rubber Company, The. (See Bronson, Budd, assignor.)
Oil Well Supply Company. (See Mack, Patrick H., assignor.)
Oliver, Ruth, assignor to L. B. Koch, New York, N. Y. Paper container. 1,919,569; July 25.
Oliver, Vaughn G., Birmingham, Ala. Pole gaining machine. 1,919,249; July 25.
Olson, Alex H., Evanston, Ill., assignor to J. W. Droll, Chicago, Ill. Propeller wheel for fans. 1,919,250; July 25.
Olson, Olof F., Gary, Ind., assignor to National Tube Company. Expanding mill. 1,919,390; July 25.
O'Neil, James T. (See Griffin, R. L., and O'Neil.)
O'Neill, Frank, jr., assignor to The Fargo Corporation, Brooklyn, N. Y. Apparatus for the manufacture of wire pull bottle caps. 1,920,018; July 25.
Oppenlaender, Oskar, Elisabethton, and R. Elsner, Johnson City, Tenn., assignors to American Glanzstoff Corporation, New York, N. Y. Untwisted direct process yarn with even shrinkage. 1,919,526; July 25.
Orr, Walter L., Los Angeles, Calif. Trap. 1,919,527; July 25.
Osborne, Fred, Birmingham, Ala., assignor to The Barrett Company, New York, N. Y. Distillation of tar at a coal distillation plant and apparatus therefor. 1,919,704; July 25.
Otis, Herbert C., Shreveport, La. Well tool. 1,920,103; July 25.
Overmyer, Everett Roscoe, La Paz, Ind. Sack or bag holder. 1,920,019; July 25.
Owens, Freeman H., New York, N. Y. Projection machine. 1,919,595; July 25.
Pacific Fitting Machine Company Inc. (See Bem, Joseph P., assignor.)
Packard Motor Car Company. (See Christman, John M., assignor.)
Packard Motor Car Company. (See Edwards, Herbert C., assignor.)
Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
Packard Motor Car Company. (See Rossman, Peter F., assignor.)
Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
Packard Motor Car Company. (See Woolson, Lionel M.)
Page, Robert M., and W. F. Curtis, Washington, D. C. Frequency division system. 1,919,251; July 25.
Paget, Wm W., Chicago, Ill., assignor to Sullivan Machinery Company. Air compressor. 1,919,252; July 25.
Palmer, Herbert R., Shaker Village, Ohio. Grass trimmer. 1,919,377; July 25.
Panzegrau, Norman O. (See Baker, D. B., Rogers, and Panzegrau.)
Parker, Henry W., assignor to Rogers Radio Tubes, Limited, Toronto, Ontario, Canada. Electron emitter for electron discharge devices. 1,919,596; July 25.
Parsons, Arthur W., Savannah, Ga. Hand truck. 1,919,903; July 25.
Parsons, Sylvanus H. H., Cos Cob, Conn. Lubricated bearing. 1,919,741; July 25.
Pasternack, Richard, and C. P. Ammerman, assignors to Charles Pfizer & Company, Brooklyn, N. Y. Soluble bismuthyl mannonate and making it. 1,919,742; July 25.
Patart, Georges, Paris, France. Destructively distilling carbonaceous fuels. 1,919,253; July 25.
Patterson, Franklin G., Schenectady, N. Y., assignor to General Electric Company. Cathode ray oscillograph sweep circuit. 1,919,985; July 25.
Patterson, Oliver W., Springfield, assignor to Jarvis & Jarvis, Inc., Palmer, Mass. Caster and the like. 1,919,666; July 25.
Payne, Frank E., Chicago, Ill. Dust collector for inclosed brake. 1,919,343; July 25.
Pearson, Edwin A. (See Salmen, K., and Pearson.)
Pease, Orville E., Baldwin, N. Y., and N. G. Joseph, Bogota, N. J., assignors to F. J. Kloes, Incorporated, New York, N. Y. Clamping device. 1,920,130; July 25.
Pen-Chlor, Incorporated. (See Reits, H., and Ehlers, assignors.)
Pengilly, Henry E. (See Anderson, L. R., and Pengilly.)
Pepin, Joseph N., Chicago, assignor to G. Curtis Bird, Wilmette, Ill. Automatic switching device. 1,919,378; July 25.
Pescara, Raul P., Paris, France. Fluid transmission system. 1,920,104; July 25.
Peters Machinery Co. (See Jurgens, E. G., and Becker, assignors.)

Peters, Samuel E., assignor to Roan Mfg. Co., Racine, Wis. Temperature controlled furnace fan. 1,919,743; July 25.
Petersen, Martin J., Canyon, Minn. Weed or quack grass plow. 1,919,705; July 25.
Petit, William H., and E. S. Hineline, Rochester, N. Y. Camera casing. Des. 90,378; July 25.
Petit, William H., and E. S. Hineline, Rochester, N. Y. Camera casing. Des. 90,377; July 25.
Pettingill, Clark, Seal Beach, Calif. Determining and recording oxygen content of liquid or gases. 1,919,858; July 25.
Petty, Fred J., assignor to Ball Brothers Company, Muncie, Ind. Glass jar. Des. 90,379; July 25.
Pfau, Walter, Cologne-Muhlheim, Germany, assignor to E. Bagrli, Zurich, and E. Burger, Gisikon near Root Switzerland. Producing beryllium-aluminium alloy. 1,919,379; July 25.
Pfeiffer, Conrad L., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for testing insulation. 1,919,802; July 25.
Pfizer, Charles, & Company. (See Pasternack, R., and Ammerman, assignors.)
Phillips, Nathan C., assignor to Russia Cement Company, Gloucester, Mass. Dispensing cap. 1,919,859; July 25.
Photo-Cast, Inc. (See Bennett, Charles W., assignor.)
Photo Review Corporation. (See Bodan, Casimir, assignor.)
Piccco, Angelo, and S. Guarnaschelli, Long Island City, N. Y. Die for producing spirally corrugated tubing. 1,919,254; July 25.
Pickard, Joseph A., London, assignor to Metafilters (1929) Limited, Middlesex, England. Filtration. 1,919,570; July 25.
Pielstick, Gustav, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Augsburg, Germany. Fuel valve. 1,919,904; July 25.
Pier, Mathias, Heidelberg, and K. Winkler, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J. Destructive hydrogenation of coals, tars, mineral oils, and the like. 1,919,857; July 25.
Pierpont, Porter G., Savannah, Ga. Top for fruit and vegetable boxes or crates. 1,919,391; July 25.
Pinkston, James H., Tulsa, Okla. Massage device. 1,919,571; July 25.
Pioneer Instrument Company. (See Simmons, John W., assignor.)
Pippin, John W., Corpus Christi, assignor of one-half to H. R. Giles, Nueces County, and one-half to W. F. Hall and George Lowrey, Harris County, Tex. Well plunger. 1,919,641; July 25.
Pittsburgh Plate Glass Company. (See Lynn, G. Allen, and Beecher, assignors.)
Poe, Fred M., Suffern, N. Y., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Casting mold. 1,920,020; July 25.
Poke, Ernest B, Madras, British India. Closure for metal drums or the like. 1,919,597; July 25.
Pope, Fred W. (See Wood, Edward B., assignor.)
Porter, Wilson E., assignor to The New Haven Clock Company, New Haven, Conn. Automatic timing device. 1,919,255; July 25.
Porter, Wilson E., assignor to The New Haven Clock Company, New Haven, Conn. Automatic timing device. 1,919,256; July 25.
Ports, Earl G., Woodside, N. Y., and H. P. Miller, jr., East Orange, N. J., assignors to International Communications Laboratories, Inc., New York, N. Y. Tuning coil. 1,919,905; July 25.
Potlatch Forests, Inc. (See Bowling, Robert T., assignor.)
Poulas, Gust, assignor of forty per cent to T. Bibicos, Cleveland, Ohio. Prevention of iron and steel slugs entering slot machines. 1,919,478; July 25.
Powers, James H., Yeadon, Pa., assignor to General Electric Company. Electrical switch house. 1,919,986; July 25.
Prazak, Emil, Elizabeth, N. J. Foot and cutting attachment for hemstitching machines. 1,920,105; July 25.
Prentice, G. E., Manufacturing Company. (See Legat, Robert C., assignor.)
Price, James R., assignor to The Alvin Corporation, Providence, R. I. Spoon or similar article. Des. 90,380; July 25.
Prince, David C., Schenectady, N. Y., assignor to General Electric Company. Vacuum circuit interrupting apparatus. 1,919,987; July 25.
Productive Equipment Corporation. (See Soldan, Lewis E., assignor.)
Program Service Company. (See Harris, D. B., and Knauss, assignors.)
Prosperity Company, Inc., The. (See Davis, Ernest, assignor.)
Quaker Oats Company. (See Brownlee, H. J., assignor.)
Quinn, James J., Philadelphia, Pa. Cover for automobile rumble seats. 1,919,744; July 25.
Radio Corporation of America. (See Bonanno, Joseph L., assignor.)
Radio Corporation of America. (See Fitzgerald, Alan S., assignor.)
Radio Corporation of America. (See Haigis, Carleton D., assignor.)
Radio Corporation of America. (See Roberts, Walter van B., assignor.)
Rahn, Philip. (See Fairbank, Roswell L., assignor.)
Ramsay, Erskine, Birmingham, Ala. Method and apparatus for mining double or parted seams. 1,919,528; July 25.
Rand, McNally & Company. (See Campbell, Eugene R., assignor.)
Randolph, Donald W., assignor to A C Spark Plug Company, Flint, Mich. Making alloys. 1,919,479; July 25.
Raney, Clemma R. (See Lindgren, A. C., Raney, and Hitchcock.)
Raphael, Albert, Brooklyn, N. Y. Flexible reamer for cable terminals and the like. 1,919,745; July 25.
Rastetter, William C., Fort Wayne, Ind. Folding chair. 1,919,746; July 25.
Raterink, Harry R. (See Somerville, I. C., and Raterink.)
Raw, George, Ravenswood, Low Fell, England. Apparatus for separating dust from air and gases. 1,919,803; July 25.
Raymond, Edward J., Seattle, Wash. Merchandise dispensing apparatus. 1,919,667; July 25.
Raytheon Inc. (See Smith, Charles G., assignor.)
Real Silk Hosiery Mills, Inc. (See Thompson, William L., assignor.)
Reber, Walter D. (See Ryder, W. E., and Reber.)
Reed Roller Bit Company. (See Giesey, Russell, assignor.)
Reed Roller Bit Company. (See Harrington, George G., assignor.)
Reed Roller Bit Company. (See Stancliff, Thomas H., assignor.)
Regan, William J., and A. J. Lenherr, assignors to The McConway & Torley Company, Pittsburgh, Pa. Coupler operating mechanism. 1,919,668; July 25.
Reichert, Samuel, Gardena, assignor of one-half to J. E. Donaldson, Fullerton, Calif. Tow line. 1,920,106; July 25.
Reimers, Hans A. (See Heath, S. B., and Reimers.)
Reinhardt, Edwin G., Cincinnati, Ohio. Metal door jamb. 1,919,392; July 25.
Reinhardt, Edwin G., Cincinnati, Ohio. Metal door jamb. 1,919,393; July 25.
Reitano, Carmelo, et al. (See Moricca, Joseph, assignor.)
Reits, Heinrich, Bitterfeld, and H. Ehlers, Sandersdorf, Germany, assignors, by mesne assignments, to Pen-Chlor, Incorporated, Philadelphia, Pa. Recovery of calcium hypochlorite. 1,919,304; July 25.
Remington Rand Inc. (See Hutchings, Le Roi E., assignor.)
Renzenhausen, Raymond L., assignor to Vestal Chemical Company, St. Louis, Mo. Fluid dispensing apparatus. 1,919,257; July 25.
Reo Motor Car Company. (See Thomas, H. T., Furgason, and Hays, assignors.)
Republic Steel Corporation. (See Cooper, Sheldon D., assignor.)
Resinous Products & Chemical Co., The. (See Bruson, Herman A., assignor.)
Rentter, Frederick, and J. H. Goss, assignors to Scovill Manufacturing Company, Waterbury, Conn. Hose coupling. 1,919,860; July 25.
Rice, Barton & Fales, Incorporated. (See Vedder, John W., assignor.)
Rice, Isaac L., jr., et al. (See Carpenter, Thomas E., assignor.)
Richards, Willard F., Depew, assignor to The Gould Coupler Company, New York, N. Y. Coupler. 1,919,305; July 25.
Richardson, Edgar C., Fairfield, Conn., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for festooning cloth. 1,919,747; July 25.
Richardson, James R., Houston, assignor to Abilene Cotton Oil Company, Abilene, Tex. Process and apparatus for treating cotton seeds and other grain. 1,920,107; July 25.
Richardson, Martin A. (See MacGregor, Wallace F., and Richardson.)
Richmond Screw Anchor Co. (See Schenk, Tamis C., assignor.)
Ricker, Norman H., assignor to Hughes Tool Company, Houston, Tex. Pneumatic lift plunger. 1,919,520; July 25.
Rieber, Frank, Berkeley, Calif. Translating device. 1,919,480; July 25.
Rieck, Anthony A., Milwaukee, Wis., assignor of one-third to Irwin W. Cox, Denver, Colo. Memorial marker. 1,919,530; July 25.
Ring, William A. (See Laddon, I. M., Ring, and Herman.)
Rix, Edward G. (See Lyman, W. H., and Rix.)
Roan Mfg. Co. (See Peters, Samuel E., assignor.)
Roberts, Edwin G. L. (See Stokes, R. A., and Roberts.)
Roberts, Tom R., assignor to E. C. Atkins and Company, Indianapolis, Ind. 1,919,748; July 25.
Roberts, Walter van B., assignor to Radio Corporation of America, Princeton, N. J. Stabilized radioreceiver. 1,919,906; July 25.
Robertson, H. H., Company. (See Young, James H., assignor.)
Robertson, Harry M., Cleveland, Ohio. Kiln. 1,919,258; July 25.
Robinson, Albert P., Seattle, Wash. Pivotally supported wind wing. 1,919,749; July 25.

Robinson, Clyde J., New York, N. Y. Package opener. 1,919,907; July 25.

Rockwell, Ronald J., assignor to The Crosley Radio Corporation, Cincinnati, Ohio. Direct-current voltage transformation apparatus. 1,920,150; July 25.

Rodman, Clarence J., and R. P. Dunmire, assignors to The Buckeye Twist Drill Company, Alliance, Ohio. Hydrocarbon mineral oil. 1,919,669; July 25.

Rodhe, Olof, Rahlstedt, Hamburg, Germany, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Apparatus for analyzing the gaseous content in liquids. 1,919,861; July 25.

Roebling's, John A., Sons Company. (See Sunderland, Charles C., assignor.)

Roetken, Alfred A., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Measuring and indicating system. 1,919,803; July 25.

Rogers, Clifford R. (See Baker, D. B., Rogers, and Panzegrau.)

Rogers Radio Tubes, Limited. (See Parker, Henry W., assignor.)

Röhm & Haas Company. (See Somerville, I. C., and Raterink, assignors.)

Rohm & Haas Company. (See Tischler, Nathaniel, assignor.)

Rohn, Chester F., Whitefish Bay, and F. A. Rohn, Milwaukee, Wis. Shoe. 1,919,862; July 25.

Rohn, Franklyn A. (See Rohn, Chester F. and F. A.)

Roos, Delmar G., assignor to The Studebaker Corporation, South Bend, Ind. Vehicle spring suspension. 1,919,670; July 25.

Rosen, Harold M., Muskegon, Mich. Lubricant. 1,920,161; July 25.

Rosenberg, Heyman, New York, N. Y. Damper. 1,919,863; July 25.

Rosenhagen, Victor, Bellevue, Ky., assignor to The Breese Brothers Company, Cincinnati, Ohio. Vacuum condensation system. 1,919,306; July 25.

Rosenkranz, Max, Bethel Township, Pa., assignor to National Tube Company. Pipe table. 1,919,304; July 25.

Rosner, Adolph, assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,919,531; July 25.

Ross, Oscar A., New York, N. Y. Propulsion axle for motor vehicles. 1,919,344; July 25.

Rossmann, Peter F., assignor to Packard Motor Car Company, Detroit, Mich. Nut castellating machine. 1,920,108; July 25.

Rouse, Floyd O. (See Frick, H. A., and Rouse.)

Rowe, Orvis F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Synchronous motor. 1,919,395; July 25.

Rowell, George S., Cleveland, Ohio, assignor to Multigraph Company, Wilmington, Del. Photographic screen. 1,919,481; July 25.

Rowell, George S., Cleveland, Ohio, assignor to Multigraph Company, Wilmington, Del. Photographic screen. 1,919,482; July 25.

Rowell, George S., Cleveland, Ohio, assignor to Multigraph Company, Wilmington, Del. Combined color filter and screen. 1,919,483; July 25.

Rozakis, Thomas. (See Sperling, Frank M., assignor.)

Ruben, Samuel, New Rochelle, N. Y. Potential producing cell. 1,920,151; July 25.

Rubin, Herman H., New York, N. Y. Pompon and making the same. 1,919,450; July 25.

Ruegenberg, Gottfried, Olpe, Germany. Apparatus for producing packing strips. 1,920,109; July 25.

Rupp, Emil, Berlin-Frohnau, Germany, assignor to General Electric Company. Rectifier. 1,919,988; July 25.

Rupprecht, Georg, Hamburg, Germany. Method and apparatus for volatilizing sulphur. 1,919,307; July 25.

Russia Cement Company. (See Phillips, Nathan C., assignor.)

Rutkowski, Walter L., assignor to R. C. Can Company, St. Louis, Mo. Pouring spout for salt and like containers. 1,920,131; July 25.

Ryan, Francis M., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission of sound and images. 1,919,804; July 25.

Ryder, Willard E., and W. D. Reber, assignors to Standard Asbestos Manufacturing and Insulating Co., Kansas City, Mo. Insulating covering. 1,919,532; July 25.

Ry-Lock Company. (See Rymer, John A., assignor.)

Rymer, John A., assignor to Ry-Lock Company, Ltd., San Leandro, Calif. Doorlock. 1,919,750; July 25.

Sadler, Harvey A., Cuyahoga Falls, Ohio. Machine for pulling plants. 1,919,396; July 25.

Safe Deposit and Trust Company, The, et al., executors. (See Brogan, Graham W.)

Said, William H., assignor to Corning Glass Works, Corning, N. Y. Apparatus for drawing tubing containing a stripe of contrasting glass. 1,919,259; July 25.

Salem Glass Works. (See Beon, Louis, assignor.)

Salmen, Kenneth, and E. A. Pearson, Scribner, Nebr. Door operating means. 1,919,864; July 25.

Salsburg, Jacob, Wilkes-Barre, Pa. Corn planter. 1,919,397; July 25.

Sanite Corporation. (See Whitehouse, John N., assignor.)

Santini, Danilo, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Copper oxide rectifier. 1,919,398; July 25.

Saurer, Curt, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Shock insulator. 1,919,484; July 25.

Schacht, Clifford A., Huntington, Ind. Dish scraper. 1,919,865; July 25.

Schacht, Clifford A., Huntington, Ind. Fruit jar opener. 1,919,866; July 25.

Schade, James W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Removing articles from packing cases. 1,919,380; July 25.

Schaefer, William K., Detroit, Mich. Lubricating device. 1,919,451; July 25.

Schaffer Poidometer Company. (See Weiland, George C., assignor.)

Schaffer, Walter, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie mit beschrankter Haftung, Berlin, Germany. Method and arrangement for diminishing noise in vacuum tubes. 1,919,598; July 25.

Schenk, Tamis C., Brooklyn, N. Y., assignor to Richmond Screw Anchor Co., Inc. Wedge for form ties. 1,919,751; July 25.

Schering-Kahlbaum A. G. (See Dohrn, M., and Diedrich, assignors.)

Schermerhorn, Eugene L., Gowen, Mich. Road scraper. 1,919,260; July 25.

Scheuerlein, John E., Bay City, Mich. Device and method for tightening wire. 1,919,867; July 25.

Schiebeler, Carl, Berlin-Halensee, and A. Weiss, Berlin-Charlottenburg, Germany, assignors to General Electric Company. Motor control system. 1,919,989; July 25.

Schmaljohann, Paul, Kiel, Germany, assignor to Centra Handels- & Industrie A.-G., Chur, Switzerland. Internal combustion engine. 1,919,572; July 25.

Schmelzer, Albert, F. Ballauf and F. Muth, Elberfeld, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Azodyestuff. 1,919,573; July 25.

Schmidt, Arthur W., Spring Valley, N. Y. Rubber stamp and making the same. 1,920,110; July 25.

Schmidt, Ernest, Berlin, Germany. Closure means for tins. 1,919,574; July 25.

Schmidt, Max, and E. Neubacher, assignors to The Max Wocher & Son Company, Cincinnati, Ohio. Urological table. 1,919,908; July 25.

Schmidt, Otto, and O. Grosskinsky, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Separation of mixtures by distillation. 1,919,752; July 25.

Schnell, Steve, assignor to Wagner Electric Corporation, St. Louis, Mo. Brake band. 1,919,533; July 25.

Schoenfeld, Frank K. (See Crawford, R. A., and Schoenfeld.)

Schoenlau, Theodore A., St. Louis, Mo. Filtering means. 1,919,805; July 25.

Schonberg, Jackson R., Westfield, N. J., assignor to Standard Oil Development Company. Removing entrained liquid from gases and vapors. 1,919,599; July 25.

Schönburg, Curt, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Plastic mass. 1,919,575; July 25.

Schopbach, Charles H., assignor to International Corset Company, Aurora, Ill. Combination corset and brassière. 1,919,261; July 25.

Schram, Frank, Crystal Lake, Ill. Pink rose. Pl. Pat. No. 72; July 25.

Schroeder, Ernst J., Americus, Ga. Heating system. 1,919,576; July 25.

Schroeder, Frank, Kansas City, Mo., assignor to The Toy Tinkers, Inc., Evanston, Ill. End expander for structural toy rods. 1,920,021; July 25.

Schulz, Hans, Charlottenburg, Berlin, assignor to Siemens and Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Magnetic material. 1,919,806; July 25.

Schur, Milton O., and B. G. Hoos, assignors to Brown Company, Berlin, N. H. Conditioning of cellulose fiber for nitration. 1,919,962; July 25.

Schurman, Adolph G., Baltimore, Md. Anti pilferage seal. 1,920,152; July 25.

Schwarz, Eugene, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp shade. Des. 90,381; July 25.

Schwarz, Eugene, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp shade. Des. 90,382; July 25.

Schwarz, Eugene, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp shade. Des. 90,383; July 25.

Schweitzer, Walter, Horgen, near Zurich, Switzerland. Cop winding frame. 1,920,111; July 25.

Schweiser, Jack, assignor to William Willheim Co., Inc., New York, N. Y. Textile fabric or similar article. Des. 90,384; July 25.

Schweiser, Jack, assignor to William Willheim Co., Inc., New York, N. Y. Textile fabric or similar article. Des. 90,385; July 25.

Scovill Manufacturing Company. (See Reutter, Frederick, and Goss, assignors.)

Seaholm, Charles H., assignor to General Talking Pictures Corporation, New York, N. Y. Sound on film apparatus. 1,919,753; July 25.

Searles, Raymond R., assignor to The Fafnir Bearing Company, New Britain, Conn. Spring connection. 1,920,132; July 25.

Segal Safety Razor Corporation. (See Segal, Samuel, assignor.)

Segal, Samuel, assignor to Segal Safety Razor Company, New York, N. Y. Sharpening unit. 1,919,999; July 25.

Seiter, Otto, Forest Hills West, assignor to The Nestle-Lemur Company, New York, N. Y. Hair waving apparatus. 1,919,282; July 25.

Sejersen, Ejnar, Oak Park, Ill. Emergency brake control mechanism. 1,919,754; July 25.

Selden Company, The. (See Jaeger, A. O., Daniels, and West, assignors.)

Sell, Frank A., Los Angeles, Calif. Combination safety razor case and used blade container. 1,919,381; July 25.

Semon, Waldo L., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber composition and preserving rubber. 1,919,452; July 25.

Sevison, Harry D. (See Hamm, W. S., and Sevison.)

Seward, Robert B., Guilford, Conn., assignor to Zotos Corporation, New York, N. Y. Hair waving device. 1,919,600; July 25.

Shaft, Willis S., Faribault, Minn. Spring heel seat. 1,920,112; July 25.

Shapiro, Joseph. (See Balton, James, assignor.)

Sharpe, Harry, Boston, assignor to Arthur B. Marsh, trustee, Melrose, Mass. Machine for molding articles. 1,919,260; July 25.

Shaw, Harry E., Grand Rapids, Mich. Display stand. Des. 90,386; July 25.

Shaw, Louis E., East Orange, N. J., assignor to J. S. Stokes, Spring Valley Farms, Pa. Molding apparatus. 1,919,534; July 25.

Shaw, Percy G., Bridgeport, Conn., assignor to General Electric Company. Electric switch. 1,919,990; July 25.

Shaw, Robert A., Detroit, Mich. Safety curtain for presses. 1,919,868; July 25.

Sheel, Harold. (See Blount, H., and Sheel.)

Sherman, Thomas L., Canton, Mass., assignor to Michell Crankless Engines Corporation, New York, N. Y. Internal combustion engine. 1,919,755; July 25.

Sherwood, Lewis R., Detroit, Mich., assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Detachable meter device. 1,919,382; July 25.

Shetzline, Walter F., Los Angeles, Calif. Auto window operating means. 1,919,671; July 25.

Shields, John M., assignor to F. H. Noble & Co., Chicago, Ill. Spectacle case. 1,919,262; July 25.

Shoemaker, Alvin H., Seattle, Wash. Pneumatic tire and rim construction. 1,919,910; July 25.

Shoemaker, Alvin H., Seattle, Wash. Pneumatic tire and rim construction. 1,919,911; July 25.

Sickle, Edward B. (See Ware, Willis C., assignor.)

Siegmund, Humphreys O., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Power supply system. 1,919,808; July 25.

Siemens Brothers & Company Limited. (See Wigan, Edmund S., assignor.)

Siemens and Halske Aktiengesellschaft. (See Schuls, Hans, assignor.)

Siemens & Halske, Aktiengesellschaft. (See Walter, Hans, assignor.)

Siksta, Josef, Berwyn, Ill., assignor to B. J. Wallace, Kent, Ohio. Footwear area calculator. 1,919,383; July 25.

Simjian, Luther G., New Haven, Conn. Pose reflecting apparatus. 1,919,642; July 25.

Simmen, Oscar, Erlach, assignor to the Firm Sulzer Frères Société Anonyme, Winterthur, Switzerland. Fuel injection device for internal combustion engines. 1,919,601; July 25.

Simmons, John W., Cleveland, Ohio, assignor to Pioneer Instrument Company, Incorporated, Brooklyn, N. Y. Speed indicating device. 1,920,113; July 25.

Simons, Jewett C. (See Bassett, H. P., and Simons.)

Simplex Piston Ring Company of America, Inc., The. (See Solenberger, Dean M., assignor.)

Simpson, James A., Uvalde, assignor to Humble Oil & Refining Company, Houston, Tex. Pecan tree. Pl. Pt. 73; July 25.

Singer Manufacturing Company, The. (See Chason, Daniel H., assignor.)

Singer Manufacturing Company, The. (See Webb, Irving F., assignor.)

Sinner, Emil, assignor to Clum Manufacturing Company, Milwaukee, Wis. Switch. 1,919,345; July 25.

Sintering Machinery Corporation. (See Stehli, Henry J., assignor.)

Siqveland, Ivar E., St. Paul, Minn. Dental roll dispenser. 1,919,535; July 25.

Six, Walter J., Indianapolis, Ind., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Bearing manufacture. 1,920,022; July 25.

Sjogreen, Svend A., Berkeley, and J. W. Johnson, San Francisco, Calif. Emblem holder for radiator caps. Des. 90,387; July 25.

Slaby, John. (See Koch, Herbert, assignor.)

Slusher, Frank, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire building apparatus. 1,919,384; July 25.

Smidth, F. L., & Co. (See Treschow, Michael, assignor.)

Smith, A. O., Corporation. (See Hasselquist, Hugo S., assignor.)

Smith, Alva T., assignor to National Enameling & Stamping Company, Milwaukee, Wis. Electric casserole. Des. 90,388; July 25.

Smith, Charles G., Medford, assignor to Raytheon Inc., Cambridge, Mass. Rectifier. 1,919,263; July 25.

Smith, Harry L., Long Beach, Calif., assignor to The Texas Company, New York, N. Y. Vapor pressure bomb. 1,919,346; July 25.

Smith, Harry N., Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y. Machine for making friction elements. 1,920,023; July 25.

Smith, Percy C., Chicago, Ill. Coin packaging device. 1,919,963; July 25.

Smith, Willis J., Ottumwa, Iowa. Internal combustion engine cooling system. 1,919,577; July 25.

Snell, Gaylord Clinton, Toronto, Ontario, assignor to Appleford Paper Products Limited, Hamilton, Canada. Container. 1,919,912; July 25.

Snow, Karl F., Brecksville, assignor to The C. O. Bartlett & Snow Company, Cleveland, Ohio. Barrel handling and treating mechanism. 1,919,809; July 25.

Societe Anonyme Des Ondes Dirigees. (See Jacquemin, Francois L. E., assignor.)

Societe Anonyme: Le Mondial. (See Levinson, Ruvin, assignor.)

Societe Generale Metallurgique de Hoboken. (See Leemans, Joseph P., assignor.)

Societe l'Air Liquide, Societe Anonyme pour l'Etude a l'Exploitation, des Procedes Georges Claude. (See Jean, M. C., and Matile, assignors.)

Society of Chemical Industry in Basle. (See Felix, Friedrich, assignor.)

Soldan, Lewis E., Buffalo, N. Y., assignor to Productive Equipment Corporation, Chicago, Ill. Screening apparatus. 1,919,485; July 25.

Solenberger, Dean M., Cleveland, Ohio, assignor to The Simplex Piston Ring Company of America, Inc. Device for reducing piston slap in internal combustion engines. 1,920,114; July 25.

Somerville, Ian C., Fox Chase, and H. R. Raterink, assignors to Röhm & Haas Company, Philadelphia, Pa. Tanning. 1,919,756; July 25.

Sonderman, Albert F., Ferdinand, Ind., and N. Meinhardt, Preston, Iowa, assignors to F. H. Sonderman, Yorkville, Ind. Chalice. Des. 90,389; July 25.

Sonderman, F. H. (See Sonderman, A. F., and Meinhardt, assignors.)

Spang, Joseph P., Quincy, Mass. Meat-cubing machine. 1,919,964; July 25.

Spear, Leolyn F., Westfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Ignition means for oil burners. 1,920,115; July 25.

Speck, Walter, Haledon, N. J., assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric. Des. 90,390; July 25.

Sperling, Frank M., assignor of forty per cent to Thomas Rosakis, Bristol, Pa. Typewriter attachment. 1,919,399; July 25.

Sperry Gyroscope Company. (See Bates, Mortimer F., assignor.)

Spray, Lester E., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 1,919,810; July 25.

Square D Company. (See Nogosek, Stephen J., assignor.)

Squibb, E. R., & Sons. (See Holaday, H. A., and Black, assignors.)

Stafford Electric Gauge Corporation. (See Stafford, Roy M., assignor.)

Stafford, Roy M., Beaumont, Tex., assignor to Stafford Electric Gauge Corporation. Circuit breaker. 1,919,385; July 25.

Stancliff Thomas H., assignor to Reed Roller Bit Company, Houston, Tex. Roller bit. 1,920,164; July 25.

Standard Alcohol Company. (See Brooks, Benjamin T., assignor.)

Standard Alcohol Company. (See Brooks, B. T., and Cardarelli, assignors.)

Standard Asbestos Manufacturing and Insulating Co. (See Ryder, W. E., and Reber.)

Standard Conveyor Company. (See Donaldson, William T., assignor.)

Standard Engineering Works, The. (See Mills, B. M., and Crossley, assignors.)

Standard-I. G. Company. (See Fisher, Harold W., assignor.)

Standard-I. G. Company. (See Pier, Mathias, and Winkler, assignors.)

Standard Oil Company, The. (See Burk, Robert E., assignor.)

Standard Oil Development Company. (See Ewing, C. R., and Montgomery, assignors.)

Standard Oil Development Company. (See Frolich, Per K., and Gildersleeve, assignors.)

Standard Oil Development Company. (See Haupt, C. H. and Ely, assignors.)

Standard Oil Development Company. (See Lassen, L., and Boehm, assignors.)

Standard Oil Development Company. (See Lewis, Warren K., assignor.)

Standard Oil Development Company. (See Schonberg, Jackson R., assignor.)

Standard Oil Development Company. (See Truman, Orley H., assignor.)

Stanitz, Jacques, and G. D. Boyer, assignors to The Youngstown Pressed Steel Company, Warren, Ohio. Corrugating apparatus. 1,919,869; July 25.

Star Company. (See Keogh, Robert, assignor.)

Star Sprinkler Corporation. (See Griffith, William B., assignor.)

Starie, George B., Schenectady, N. Y., assignor to General Electric Company. Electroresponsive time element device. 1,919,991; July 25.
Statton Furniture Manufacturing Company, The. (See McClure, Frances M., assignor.)
Stauf, Friedrich W., Cologne-Deutz, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Purification of alkali metal hydroxide liquors. 1,919,308; July 25.
Stedman, Jacob C., Memphis, Tenn. House. Des. 90,391; July 25.
Steele, Charles W., deceased, by L. K. Steele, administratrix, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Machine for striping. 1,919,386; July 25.
Steele, Lillian K. (See Steele, Charles W.)
Stehli, Henry J., Cedar Grove, assignor to Sintering Machinery Corporation, Netcong, N. J. Integrating mechanism. 1,920,024; July 25.
Steinhardt, Lawrence A. (See Novak, Julius J., assignor.)
Stephens, Thomas M., Michigan City, Ind. Cutter bit and chuck. 1,920,035; July 25.
Stephens, William A., London, England, assignor to The British Sure Seal Company Limited. Apparatus for the manufacture of receptacle closures. 1,919,578; July 25.
Stephenson, Leigh J., assignor to Walker Vehicle Company, Chicago, Ill. Interlocking switch. 1,919,913; July 25.
Sterling Airbrush Co. (See Wenczel, Laszlo, assignor.)
Sterling Electric Motors. (See Johnson, Carl E., assignor.)
Sterling Siren Fire Alarm Company Inc., The. (See Armstrong, Merton C., assignor.)
Stevens, John H. (See Walsh, J. F., Stevens, Flynn, Caprio, and Alcorn.)
Stewart, Charles M., assignor to Gardner-Denver Company, Denver, Colo. Valve. 1,919,602; July 25.
Stewart, Charles P., Los Angeles, Calif. Ultra-violet ray transmitting material. 1,919,643; July 25.
Stewart, Clyde E., Drexel Hill, Pa., assignor to General Electric Company. Impulse storage mechanism. 1,919,992; July 25.
Sticeiber, Merlin A., assignor to The Nafziger Corp., Kansas City, Mo. Engine control means. 1,919,536; July 25.
Stinson, George, Gardner, assignor to Heywood-Wakefield Company, Boston, Mass. Baby carriage hood. 1,919,608; July 25.
Stock, Arthur J., jr., Cleveland, O. Nursery nipple. 1,919,537; July 25.
Stoecklin, Josef, Zurich, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland. Protective system for electric circuits. 1,919,914; July 25.
Stoewener, Fritz. (See Koenig, J., and Stoewener.)
Stokes and Smith Company. (See Stokes, John S., assignor.)
Stokes, John S. (See Shaw, Louis E., assignor.)
Stokes, John S., Huntingdon Valley, assignor to Stokes and Smith Company, Philadelphia, Pa. Forming composite boxes. 1,919,604; July 25.
Stokes, Richard A., and E. G. I. Roberts, London, England. Apparatus for the evaporation of liquids. 1,919,400; July 25.
Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Padlock. 1,920,116; July 25.
Stone, Guy A., Ann Arbor, Mich., assignor to Central Scientific Company, Chicago, Ill. Process and apparatus for making electrical measurements. 1,919,538; July 25.
Stone, John S., San Diego, Calif., assignor to American Telephone and Telegraph Company. Apparatus and method for radio transmission and reception. 1,919,300; July 25.
Stonebraker, Harold E., Rochester, N. Y. Thermometer case. 1,919,811; July 25.
Stoner, Elmer E., Stroudsburg, Pa. Swimming machine. 1,920,036; July 25.
Storch, Samuel, Brooklyn, N. Y. Compact. 1,919,486; July 25.
Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Hitch device. 1,919,915; July 25.
Streitwolf, Karl, Frankfort-on-the-Main, A. Febrle, Bad Soden-on-Taunus, and W. Herrmann, Frankfort-on-the-Main, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. 2-oxymethylcarboxylic acid-benzimidazole-arsonic acids and preparing them. 1,919,579; July 25.
Stringer, Thomas F., Elyria, assignor to The Thew Shovel Company, Lorain, Ohio. Cab. 1,919,387; July 25.
Studebaker Corporation, The. (See Roos, Delmar G., assignor.)
Suchy, Robert, and H. F. A. E. Krause, Bitterfeld, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Simultaneous production of phosphorus and alumina. 1,919,310; July 25.
Sullivan Machinery Company. (See Blom, Hjalmar T., assignor.)
Sullivan Machinery Company. (See Hauge, Andrew, assignor.)
Sullivan Machinery Company. (See Paget, Wm W., assignor.)
Suiser Frères Société Anonyme, the Firm. (See Simmen, Oscar, assignor.)
Summey, David L., deceased; The Colonial Trust Company and R. P. W. Summey, executors, Waterbury, Conn. Billet feeding and heating apparatus. 1,920,133; July 25.
Summey, Richard P. W., et al., executors. (See Summey, David L.)
Sumpter, John E., Minneapolis, Minn. Automatic refusing unit. 1,919,453; July 25.
Sun Oil Company. (See Thomas, Henry, Thayer, and Thorngate, assignors.)
Sunderland, Charles C., New Brunswick, assignor to John A. Roebling's Sons Company, Trenton, N. J. Compressed metal joint and making the same. 1,919,347; July 25.
Sunserie, Samuel. (See Griffin, Claude, assignor.)
Susi, Michelangelo, assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric. Des. 90,392; July 25.
Svenska Aktiebolaget Mono. (See Rodhe, Olof, assignor.)
Swallow, Francis P., Worcester, assignor to United States Envelope Company, Springfield, Mass. Dispensing container. 1,919,605; July 25.
Swanson, Andrew W., assignor to Illinois Tool Company, Chicago, Ill. Clamping device. 1,919,812; July 25.
Swift and Company. (See Davis, Elmer M., assignor.)
Swift and Company. (See Deutsch, Morris, assignor.)
Swindell-Dressler Corporation. (See Dressler, Conrad, assignor.)
Tabulating Machine Company, The. (See Hoffman, Morris J., assignor.)
Tanner, Arnold J. (See Einson, M. M. and Tanner.)
Thuber, Konrad, Munich, Germany. Differential safety device for transformers and the like. 1,920,037; July 25.
Taylor, Burt E., Mount Vernon, assignor to The Borden Company, New York, N. Y. Apparatus for washing cans and the like. 1,919,965; July 25.
Taylor, Herbert K., Elkins Park, assignor to George D. Ellis and Sons, Incorporated, Philadelphia, Pa. Insect trap. 1,919,916; July 25.
Taylor, Raymond D., Evanston, Ill., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Locking slider. 1,919,966; July 25.
Taylor, William C., assignor to Corning Glass Works, Corning, N. Y. Low expansion blank glass and producing it. 1,919,264; July 25.
Technicolor, Inc. (See Troland, L. T., and Eaton, assignor.)
Teel, Eric P., assignor to Novo Engine Company, Lansing, Mich. Gear oiling system for multiple cylinder internal combustion engines. 1,920,134; July 25.
Telefonaktiebolaget L. M. Ericsson. (See Lundell, T. A., and Laurent, assignors.)
Telefonaktiebolaget L. M. Ericsson. (See Vos, M. and Laurent, assignors.)
Telefunken Gesellschaft fur Drahtlose Telegraphie mit beschrankter Haftung. (See Schaffer, Walter, assignor.)
Telehor Aktien-Gesellschaft. (See Wikkenhauser, Gustav, assignor.)
Temkovits, Charles, Philadelphia, Pa. Liquid cooling installation. 1,919,606; July 25.
Tenney, Edward H., Webster Groves, Mo. Pulverized fuel burner. 1,920,117; July 25.
Texas Company, The. (See Smith, Harry L., assignor.)
Thayer, Clarence H. (See Thomas, H., Thayer, and Thorngate.)
Thew Shovel Company, The. (See Stringer, Thomas F., assignor.)
Thoma, Erwin. (See Hoffa, E., and Thoma.)
Thomas & Betts Co., The. (See Church, Lewis H., assignor.)
Thomas Elevator Company. (See Wilson, Alexander H., assignor.)
Thomas, Frank M. (See Irish, C. G., Burrington, and Thomas.)
Thomas, Henry, Ridley Park, C. H. Thayer, Media, and F. A. Thorngate, Chester, assignors to Sun Oil Company, Philadelphia, Pa. Cooling and safeguarding oil cracking apparatus. 1,919,672; July 25.
Thomas, Horace T., C. E. Furgason, and A. B. Hays, assignors to Reo Motor Car Company, Lansing, Mich. Transmission control mechanism. 1,920,038; July 25.
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 1,919,401; July 25.
Thompson, Alfred E., Croydon, assignor to Creed and Company, Limited, Croydon, Surrey, England. Telegraph system. 1,919,607; July 25.
Thompson, Benjamin H., Ardara, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Steam driven fluid compressor. 1,919,402; July 25.
Thompson, James S., assignor to American Brakeblok Corporation, New York, N. Y. Friction block. 1,919,967; July 25.
Thompson Products Incorporated. (See Maurer, Edwin R., assignor.)
Thompson, William L., assignor to Real Silk Hosiery Mills, Inc., Indianapolis, Ind. Hosiery. 1,919,437; July 25.
Thordsen, Jacob, Konnern, Germany. Tippable and portable mixing apparatus. 1,920,025; July 25.
Thorngate, Frederick A. (See Thomas, Henry, Thayer, and Thorngate.)
Thulin, Bjarne, Detroit, Mich. Internal combustion engine. 1,319,488; July 25.

Thwing, Charles B., assignor to Thwing Instrument Company, Philadelphia, Pa. Testing machine. 1,920,039; July 25.
Thwing Instrument Company. (See Thwing, Charles B., assignor.)
Tibbutt, John P., Blackwell, Okla. Rug hook. 1,919,813; July 25.
Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Internal combustion engine. 1,919,848; July 25.
Tischler, Nathaniel, Bristol, Pa., assignor to Rohm & Haas Company. Elimination of insect infestation. 1,920,026; July 25.
Titan Co. A/S. (See Farup, Peder, assignor.)
Toy Tinkers Inc., The. (See Schroeder, Frank, assignor.)
Trabold, Frank W., Detroit, Mich. Foot pedal. 1,919,968; July 25.
Trans Ad Incorporated. (See Kauffman, Albert J., assignor.)
Traver, Oliver C., Drexel Hill, Pa., assignor to General Electric Company. Protective apparatus. 1,919,969; July 25.
Treanor, Earl E. (See Norquist, V. C., and Treanor.)
Treschow, Michael, Kew Gardens, assignor to F. L. Smidth & Co., New York, N. Y. Tube mill bearing device. 1,919,489; July 25.
Trescott Company, The. (See Trescott, Willis A., assignor.)
Trescott, Willis A., assignor to The Trescott Company, Inc, Fairport, N. Y. Sorting apparatus. 1,919,403; July 25.
Tribune Company, The. (See Wolf, Otto R., assignor.)
Tricard, Rene, Paris, France, assignor to Lentheric Incorporated, New York, N. Y. Lipstick case. Des. 90,393; July 25.
Trico Products Corporation. (See Horton, E. C., and Hueber, assignors.
Trico Products Corporation. (See Hueber, Henry, assignor.)
Trico Products Corporation. (See Hueber, H., and Horton, assignors.)
Triller, Benjamin J., Dubuque, Iowa. Door panel construction. 1,919,311; July 25.
Tripp, Augustus B., Cliftondale, Mass., assignor to General Electric Company. Oscillation generator. 1,919,993; July 25.
Trocli, Lewis S., Brooklyn, N. Y. Tail gate elevator. 1,919,608; July 25.
Troland, Leonard T., and R. D. Eaton, Cambridge, Mass., assignors, by mesne assignments, to Technicolor Inc., New York, N. Y. Photographic relief. 1,919,673; July 25.
Troy, Martin J., Atlantic Highlands, N. J. Ink fountain divider and pad. 1,919,283; July 25.
Truman, Orley H., Houston, Tex., assignor to Standard Oil Development Company. Geophysical exploration method. 1,919,917; July 25.
Trumbull Electric Manufacturing Company, The. (See Getchell, Benjamin E., assignor.)
Trucksess, David E., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric control system. 1,919,814; July 25.
Uhlich, Erich. (See Ballentin, W., and Uhlich.)
Underpinning and Foundation Company. (See Goldsborough, John B., assignor.)
Unger, William S. (See Brown, E. A., jr., and Unger.)
Union Oil Company of California. (See Merrill, D. R., and Clarke, assignors.)
Union Special Maschinenfabrik, G. m. b. H. (See Lutz, Friedrich, assignor.)
Union Switch & Signal Company, The. (See Kemmerer, Ralph R., assignor.)
Union Switch & Signal Company, The. (See Livingston, John W., assignor.)
Union Switch & Signal Company, The. (See Spray, Lester E., assignor.)
United Autographic Register Co. (See Miller, Louis J., assignor.)
United-Carr Fastener Corporation. (See Hall, Charles L., assignor.)
United-Carr Fastener Corporation. (See Johnson, Gustav, assignor.)
United-Carr Fastener Corporation. (See Kimbell, Arthur W., assignor.)
United-Carr Fastener Corporation. (See Taylor, Raymond D., assignor.)
United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)
United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)
United States Envelope Company. (See Swallow, Francis P., assignor.)
United States Quarry Tile Company. (See Happel, Albert, assignor.)
Universal Crane Company, The. (See Deucher, Eugene G., assignor.)
Universal Draft Gear Attachment Co. (See Bartsch, Herbert E., assignor.)
Van Hoopdonk, Henry, Fort Smith, Ark. Well head controller. 1,920,040; July 25.
Van Horn, Lee. (See Forrest, H. O., and Van Horn.)
Van Peenan, Robert W. (See Brown, R. J., and Van Peenan.)
Varney, William W. (See Brogan, Graham W., assignor.)
Vaughn, Sidney P., U. S. Navy, Ackerman, Miss., assignor to Grayson Heat Control, Inc., Lynwood, Calif. Thermostat. 1,919,265; July 25.
Vedder, John W., assignor to Rice, Barton & Fales, Incorporated, Worcester, Mass. Paper drier. 1,919,312; July 25.
Veisicol Corporation. (See Hyman, Julius, assignor.)
Vestal Chemical Company. (See Rensenhausen, Raymond L., assignor.)
Victor Talking Machine Company. (See Whyte, Samuel, assignor.)
Vienneau, Jacob J., Pittsfield, Mass., assignor to General Electric Company. Coil winding machine. 1,919,904; July 25.
Villano, James N., Syracuse, N. Y. Press. 1,919,815; July 25.
Virginia Smelting Company. (See Johnston, Charles W., assignor.)
Von Lepel, Egbert, New York, N. Y. Source of light and operating the same. 1,919,490; July 25.
Voories, Felix E. (See Jones, Oscar V., assignor.)
Vos, Manritz, and T. Laurent, assignors to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Electrical network. 1,920,041; July 25.
Waggoner, Ralph, assignor to Marbellite Corporation of America, Los Angeles, Calif. Reenforced column. 1,919,491; July 25.
Wagner Electric Corporation. (See Dick, Burns, assignor.)
Wagner Electric Corporation. (See Schnell, Steve, assignor.)
Wagner Electric Corporation. (See Wulfert, Otto, assignor.)
Wagner, Frederick P. (See Brauer, A. J., and Wagner.)
Wagner, Hermann, Bad Soden-on-Taunus, and H. Kracker, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. New 1,4-dialkoxybenzene compounds. 1,919,580; July 25.
Waliuszis, John B. (See Hochwalt, C. A., and Waliuszis.)
Walker, Brooks, Piedmont, Calif. Parking device for automobiles. Re18,904; July 25.
Walker, Robert G., assignor to The De Laval Separator Company, New York, N. Y. Purifying dry cleaners' solvents. 1,919,644; July 25.
Walker Vehicle Co. (See Blakeslee, Carle J., assignor.)
Walker Vehicle Company. (See Stephenson, Leigh J., assignor.)
Wallace, B. J. (See Sikata, Josef, assignor.)
Waller, Donald D. (See Helgeby, R. O. and Waller.)
Wallerstein Company, Inc. (See Wallerstein, Leo, assignor.)
Wallerstein, Leo, assignor to Wallerstein Company, Inc., New York, N. Y. Invertase preparation and making the same. 1,919,675; July 25.
Wallerstein, Leo, assignor to Wallerstein Company, Inc., New York, N. Y. Making invertase preparations. 1,919,676; July 25.
Walsh, James F., East Orange, J. H. Stevens, South Orange, K. Flynn, Orange, A. F. Caprio, Newark, and T. E. Alcorn, Maplewood, N. J., assignors to Celluloid Corporation. Apparatus for making flowed films and sheets. 1,920,118; July 25.
Walter, Edward C., Orange, N. J., assignor to Elliott-Fisher Company, Harrisburg, Pa. Add-subtract control for computing machines. 1,919,919; July 25.
Walter, Hans, Berlin-Charlottenburg, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany. Apparatus for measuring alternating current. 1,919,284; July 25.
Walters, Herbert, assignor to Detroit Metal Specialty Corporation, Detroit, Mich. Wheel hub cap and lock therefor. 1,919,492; July 25.
Walther, Fritz, Plauen, Germany. Hydraulic drive. 1,920,042; July 25.
Walther, Heinrich, Frankfort-on-the-Main-Oberrad, Germany, Vulcanizing press. 1,920,157; July 25.
Ware, Willis C., assignor of one-half to E. B. Sickle, Chicago, Ill. Adhesive. 1,919,454; July 25.
Warner Brothers Company, The. (See Field, John, assignor.)
Warrick, Charles F., Detroit, assignor to Whitehead & Kales Company, River Rouge, Mich. Humidostat. 1,920,043; July 25.
Wassilieff, Viktor, and A. De Witt, Brunn, Czechoslovakia. Transmission gear. 1,919,870; July 25.
Watkins, George B., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Treating laminated glass to prepare it for sealing. 1,919,757; July 25.
Watson, John Warren. (See Hargreaves, Herbert.)
Waukesha Motor Company. (See Hofmann, Max, assignor.)
Wayne, Truman B., Houston, Tex. Resolving emulsions. 1,919,871; July 25.
Weast, V. R. (See Baughman, Irving E., assignor.)
Webb, Christopher F., assignor to Bell Punch Company Limited, Middlesex, England. Coin freed mechanism. 1,919,581; July 25.
Webb, Irving F., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Worktable. 1,919,609; July 25.
Welland, George C., assignor to Schaffer Poidometer Company, Pittsburgh, Pa. Tempering. 1,919,872; July 25.

Weingartner, Anthony E., Bethlehem, and C. V. Koons, assignors to American Engineering Company, Philadelphia, Pa. Remote control apparatus. 1,919,758; July 25.
Weiss, Arno. (See Schiebeler, C., and Weiss.)
Wekenborg, Bernard J., Argyle, Mo. Combined starter and choke control. 1,919,313; July 25.
Welkovitz, Ned, and A. S. Goldstein, Chicago, Ill. Wire glass. 1,919,873; July 25.
Wenczel, Laszlo, assignor to Sterling Airbrush Co., New York, N. Y. Pneumatic puffing machine. 1,919,674; July 25.
Wery, Edward, Toms River, N. J. Pocket umbrella. 1,919,610; July 25.
West, Herbert J. (See Jaeger, A. O., Daniels, and West.)
Western Electric Company. (See Blount, H., and Sheel, assignors.)
Western Electric Company. (See Pfeiffer, Conrad L., assignor.)
Western Electric Company Incorporated. (See White, John H., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Hewitt, Ellis E., assignor.)
Westinghouse Air Brake Company, The. (See Kusebauch, Anton K., assignor.)
Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)
Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)
Westinghouse Air Brake Company, The. (See Thompson, Benjamin H., assignor.)
Westinghouse Air Brake Company, The. (See Work, Edgar A., assignor.)
Westinghouse Air Brake Company, The. (See Whitaker, Uncas A., assignor.)
Westinghouse Air Brake Company, The. (See Woernley, Harry F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lindstrom, Ture, assignor.)
Westinghouse Electric & Manufacturing Company. (See Rowe, Orvis F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Santini, Danilo, assignor.)
Wetherbee, Asbur U., Evanston, assignor to Autogas Corporation, Chicago, Ill. Combustion chamber. 1,919,285; July 25.
Wetzel, Guy F., Chicago, Ill. Door. 1,919,266; July 25.
Wheeling Steel Corporation. (See Kielberg, Henry, assignor.)
Whitaker, Joseph P. (See Fielding, John, assignor.)
Whitaker, Uncas A., Canton, Ohio, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake valve device. 1,919,404; July 25.
White, Charles H., assignor to Deere & Company, Moline, Ill. Wheel. 1,919,539; July 25.
White, Elmer L., Detroit, Mich. Signal light switch. 1,920,045; July 25.
White, John H., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric insulation. 1,919,267; July 25.
Whitehead & Kales Company. (See Warrick, Charles F., assignor.)
Whitehouse, John N., New York, N. Y., assignor to Sanite Corporation, Burlington, N. J. Molding and pressing methods and apparatus. 1,919,918; July 25.
Whitfield Engineering Company. (See Le Fevre, Edwin K., assignor.)
Whitt, Hugh, Fortress Monroe, Va. Blotter holder. 1,919,268; July 25.
Whyte, Samuel, Redhill, England, assignor to Victor Talking Machine Company. Sound record. 1,919,920; July 25.
Wickersham, Newton W., assignor, by mesne assignments, to Yowell & Yarbrough, Inc., Los Angeles, Calif. Oil well cleaning device. 1,919,350; July 25.
Wiedemann, John, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Hinge construction. 1,920,044; July 25.
Wiegand, Edwin L., Pittsburgh, Pa. Forming electric resistance heating elements. 1,919,816; July 25.
Wigan, Edmund, assignor to Siemens Brothers & Company Limited, London, England. Telephone instrument circuit. 1,919,314; July 25.
Wikkenhauser, Gustav, Berlin-Halensee, assignor to Telehor Aktien-Gesellschaft, Berlin-Charlottenburg, Germany. Television and picture transmitting apparatus. 1,920,119; July 25.
Wilcox, Edson B., Meriden, Conn. Automatic cut-out device for the starting motors of internal-combustion engines. 1,919,817; July 25.
Wilcox, Howard, New York, N. Y., assignor to The Chain Products Company, Cleveland, Ohio. Sales cabinet for tire chains. 1,919,349; July 25.
Wilhelm, Robert, Leipzig, Germany. Figure. 1,920,027; July 25.
Wilkin, John H., Yorktown, Ind. Bracket construction. 1,920,028; July 25.
Willadsen, Magnus, Chicago, Ill. Wall-paper scraper. 1,919,351; July 25.
Willard, John M., Los Angeles, Calif., assignor, by mesne assignments, to Crellin Machine Company. Form tie. 1,919,645; July 25.
Willems, Jakob. (See Lehmann, R., Heckmanns, Dobmaier and Willems.)
Willheim, William, Co. (See Schweiser, Jack, assignor.)
Williams, William M., Evanston, assignor to B. F. Gump Company, Chicago, Ill. Package and sealing the same. 1,919,819; July 25.
Williamson, William F., Searcy, Ark. Smoking stand. Des. 90,394; July 25.
Wilson, Alexander H., Oak Park, assignor to Thomas Elevator Company, Chicago, Ill. Automatic control for hoisting machines. 1,919,818; July 25.
Wilson, Gardiner C., assignor to Norton Laboratories, Inc., Lockport, N. Y. Handle construction. 1,919,455; July 25.
Wilson, William H., Los Angeles, Calif. Truss. 1,919,405; July 25.
Winberg, Ragnar W., East Elmhurst, Long Island, N. Y. Curtain threader. 1,920,046; July 25.
Winkler, Karl. (See Pier, Mathias, and Winkler.)
Winkler, Richard G., Springfield, Mass. Safety razor. 1,919,750; July 25.
Winthrop Chemical Company. (See Kropp, W., Lange, and Bohne, assignors.)
Winthrop Chemical Company. (See Lehmann, R., Heckmanns, Dobmaier, and Willems, assignors.)
Winthrop Chemical Company. (See Streitwolf, K., Fehrle, and Hermann, assignors.)
Winser, Charles B., Balham, London, England, assignor to Ernst P. Lehmann, Brandenburg, Havel, Germany. Playing a game of skill. 1,919,706; July 25.
Wired Radio, Inc. (See Hough, Clinton W., assignor.)
Wocher, Max, and Son, Company, The. (See Schmidt, M., and Neubacher, assignors.)
Woernley, Harry F., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Combined cock and switch device. 1,919,406; July 25.
Wolf Machine Company, The, et al. (See Meyer, H. A., and Bloch, assignors.)
Wolf, Otto E., River Forest, assignor to The Tribune Company, Chicago, Ill. Roll stand for printing presses. 1,919,456; July 25.
Wolfram, Arthur. (See Kranslein, G., Wolfram, and Broeker.)
Wood, Edward B., assignor of one-half to Fred W. Pope, Lakeland, Fla. Vegetable and orchard heater. 1,919,407; July 25.
Wood, Garfield A., Detroit, Mich. Marine reverse gear. 1,919,760; July 25.
Wood, Walter. (See Camerota, Louis A., assignor.)
Woodruff, Carlton H., assignor to Auburn Button Works, Inc., Auburn, N. Y. Manufacturing molded mottled articles. 1,920,120; July 25.
Woods, William J., Schenectady, N. Y., assignor to General Electric Company. Impeller. 1,919,070; July 25.
Woolson, Emma F., executrix. (See Woolson, Lionel M.)
Woolhouse, George H., Tacoma, assignor of one-half to J. I. Bowers, Seattle, Wash. Dry kiln. 1,919,646; July 25.
Woolson, Lionel M., deceased, Detroit, by Emma F. Woolson, executrix, Bloomfield Village, assignor to Packard Motor Car Company, Detroit, Mich. Internal combustion engine. 1,919,286; July 25.
Worcester Loom Works. (See Alvord, Clinton, assignor.)
Work, Edgar A., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Choke plug. 1,919,408; July 25.
Wry, Thomas A., Lynn, Mass., assignor to General Electric Company. Forming cores for dynamo-electric machines. 1,919,995; July 25.
Wulfert, Otto, assignor to Wagner Electric Corporation, St. Louis, Mo. Machine casing element and making same. 1,919,540; July 25.
Wulkop, Frederick F., Wellesley, Mass. Bookmark. 1,919,971; July 25.
Wünsche, Otto, Berlin-Friedenau, Germany, assignor to General Electric Company. Acceleration responsive device for controlling electric motor-driven vehicles. 1,919,996; July 25.
Wyman-Gordon Company. (See Damerell, Mark H., assignor.)
Wynn, John, jr., Canton, Ohio. Agitating and feeding mechanism for stokers. 1,919,972; July 25.
Yasso, George H., Bethlehem, Pa. Dispensing device. 1,919,582; July 25.
Youd, Earl T. (See Dunn, T. E., Dyer, Lake, and Youd, E. T.)
Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Protected metal article. 1,919,677; July 25.
Youngstown Pressed Steel Company, The. (See Stanitz, Jacques, and Boyer, assignors.)
Yowell & Yarbrough, Inc. (See Wickersham, Newton W., assignor.)
Yurkovitch, Anton, Pittsburgh, Pa. Adjustable flue connection. 1,919,678; July 25.
Yurkovitch, Anton, Pittsburgh, Pa. Adjustable flue connection. 1,919,679; July 25.
Zoerb, John E., Eureka, S. Dak. Dispensing nozzle. 1,920,047; July 25.
Zotos Corporation. (See Evans, Ralph L., assignor.)
Zotos Corporation. (See Seward, Robert B., assignor.)
Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Odometer. 1,919,493; July 25.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 25TH DAY OF JULY, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Acceleration responsive device for controlling electric motor-driven vehicles. O. Wünsche. 1,919,996; July 25.
Accordion illuminating means. E. Galisi. 1,919,294; July 25.
Acid, Concentration of aqueous formic. E. Lüscher. 1,919,850; July 25.
Acid from formates, Manufacture of formic. E. Lüscher. 1,919,851; July 25.
Acid sludges, Treating. D. R. Merrill and P. S. Clarke. 1,919,664; July 25.
Add-subtract control for computing machines. E. C. Walter. 1,919,919; July 25.
Adhesive. W. C. Ware. 1,919,454; July 25.
Adjustable chair. E. Ashleman. 1,919,820; July 25.
Aeroplane window cleaner. H. Hueber and E. C. Horton. 1,920,144; July 25.
Agitating and feeding mechanism for stokers. J. Wynn, jr. 1,919,972; July 25.
Air conditioning system. C. A. Bulkeley. 1,919,197; July 25.
Air, Method and apparatus for conditioning. H. O. Forrest and L. Van Horn. 1,919,781; July 25.
Airplane, Monospar. C. de Ganahl. 1,919,620; July 25.
Air separator. W. H. De Lancey. 1,920,066; July 25.
Alcohol, Making ethyl. B. T. Brooks. 1,919,618; July 25.
Alkali metal carbonates, Manufacture of. C. Deguide. 1,919,832; July 25.
Alkali metal hydroxide liquors, Purification of. F. W. Stauf. 1,919,808; July 25.
Alkaline earth metal cyanamides, Production of. H. Acker. 1,919,761; July 25.
Alkoxyacetic acids. H. A. Bruson. 1,920,137; July 25.
Alloys, Making. D. W. Randolph. 1,919,479; July 25.
Alloy steel. D. L. Edlund. 1,919,211; July 25.
Ammeter. J. E. Eshbaugh. 1,919,504; July 25.
Ammonia oxidation. S. L. Handforth and W. E. Kirst. 1,919,216; July 25.
Ammonium chloride, Making. S. B. Heath and H. A. Reimers. 1,919,943; July 25.
Amusement apparatus. R. H. Jewell. 1,919,467; July 25.
Antenna for short and ultra-short waves. W. Hahnemann. 1,920,156; July 25.
Apparatus for controlling the flow of refrigerant in refrigerating apparatus. T. E. Carpenter. 1,919,500; July 25.
Aqueous dispersions, Manufacture of. R. A. Crawford and F. K. Schoenfeld. 1,919,775; July 25.
Ar-tetrahydronaphthylamine compounds, Manufacturing. F. Klingemann, W. Lommel, E. Korten, and T. Goost. 1,919,592; July 25.
Articles from packing cases, Removing. J. W. Schade. 1,919,380; July 25.
Articles made of hydraulic cement mixtures, Surface finishing. P. Davis. 1,920,065; July 25.
Articles of plastic material, Method and apparatus for forming. C. W. Leguillon. 1,919,374; July 25.
Ash receptacle. J. F. Madden. 1,920,091; July 25.
Automatic valve. E. S. Buck. 1,919,413; July 25.
Automobiles, Accessory for. W. R. Gallagher, jr., and W. L. Lloyd. 1,919,326; July 25.
Axle for motor vehicles, Propulsion. O. A. Ross. 1,919,344; July 25.
Azodyestuff. A. Schmelzer, F. Ballauf, and F. Muth. 1,919,573; July 25.
Azo-dyestuffs and making same. F. Felix. 1,919,833; July 25.
Azo-dyestuffs, Blue to violet-blue water-insoluble. E. Hoffa and E. Thoma. 1,919,590; July 25.
Azodyestuffs insoluble in water. E. Hoffa and E. Thoma. 1,919,589; July 25.
Backstop, Basket-ball. F. Albach. 1,919,494; July 25.
Bag: *See*—
Hand bag.
Baling machinery. W. F. MacGregor and M. A. Richardson. 1,919,897; July 25.
Ball and making the same, Play. J. D. Beebe. 1,919,857; July 25.
Bar. Beer dispensing. I. Copeland. Des. 90,360; July 25.
Barrel handling and treating mechanism. K. F. Snow. 1,919,809; July 25.
Base for lamps, etc., Nested. J. T. Hadly. 1,919,838; July 25.
Bathtub and shower pan, Combined. J. E. Druckenmiller. Des. 90,361; July 25.
Battery element, Stoppered tubular storage. C. D. Galloway. 1,919,883; July 25.
Battery, Means for the control of the charge of a storage. W. C. Leingang. 1,919,892; July 25.
Bearing and making the same, Roller. N. J. Nolan. 1,920,102; July 25.
Bearing device, Tube mill. M. Treschow. 1,919,489; July 25.
Bearing, Lubricated. S. H. H. Parsons. 1,919,741; July 25.
Bearing manufacture. W. J. Six. 1,920,022; July 25.
Bearing structure, Rubber. A. D. Maclachlan and K. E. Freund. 1,919,375; July 25.
Bedstead protector. M. Fett, née Hamdorf. 1,919,426; July 25.
Belt, Bathing. W. V. Carr. 1,920,061; July 25.
Belt, Coat. N. G. De Marco. 1,919,503; July 25.
Beryllium-aluminium alloy, Producing. W. Pfan. 1,919,379; July 25.
Beverage water heater. L. B. Green. 1,920,013; July 25.
Billet feeding and heating apparatus. D. L. Summey. 1,920,133; July 25.
Binder, Loose leaf. S. B. Freiberg. 1,919,784; July 25.
Binding post. C. L. Knutson. 1,919,952-3; July 25.
Bismuthyl mannonate and making it, Soluble. R. Pasternack and C. P. Ammerman. 1,919,742; July 25.
Bit: *See*—
Roller bit.
Blade for windmill impellers. S. Heath. 1,919,588; July 25.
Blotter holder. H. Whitt. 1,919,268; July 25.
Block: *See*—
Friction block. Friction clutch block.
Body for motor vehicles, Lift. H. A. Frick and F. O. Rouse. 1,919,325; July 25.
Boiler: *See*—
Marine boiler.
Boiler heater. M. Iannone. Des. 90,368; July 25.
Boilers, Tube for mercury. H. J. Kerr. 1,919,834; July 25.
Bomb sight and pilot director. M. F. Bates. 1,919,191; July 25.
Bomb, Vapor pressure. H. L. Smith. 1,919,346; July 25.
Bookmark. F. F. Wulkop. 1,919,971; July 25.
Boot, Cold air. B. J. Mancuso. 1,920,092; July 25.
Boots or shoes, Manufacturing. C. H. Daniels. 1,919,464; July 25.
Bottle filling machine and method. F. W. Müller 1,919,665; July 25.
Bowl or similar article. H. Moller. Des. 90,375; July 25.
Box: *See*—
Hat storage box.
Box and blank therefor. C. D. Knowlton. 1,919,789; July 25.
Box or crate. A. L. Foreman. 1,919,427; July 25.
Boxes, Forming composite. J. S. Stokes. 1,919,604; July 25.
Bracket. E. A. Bohlman. 1,919,767; July 25.
Bracket construction. J. H. Wilkin. 1,920,028; July 25.
Brake: *See*—
Fluid pressure brake. Hydraulic brake.
Friction brake. Reverse brake.
Brake. B. Dick. 1,919,542; July 25.
Brake. L. E. La Brie. 1,919,519; July 25.
Brake. A. Rosner. 1,919,531; July 25.
Brake band. S. Schnell. 1,919,583; July 25.
Brake construction. E. R. Evans. 1,919,882; July 25.
Brake control mechanism, Emergency. E. Sejersen. 1,919,754; July 25.
Brake operating mechanism. H. E. Bartsch. 1,919,184; July 25.
Brake shoe. R. A. Goepfrich. 1,919,550; July 25.
Brake valve device. U. A. Whitaker. 1,919,404; July 25.
Brakes, Apparatus for testing. G. W. Brogan. 1,919,929; July 25.
Braking attachment for sanding machines. J. M. Nash. 1,919,477; July 25.
Branding device. M. Deutsch. 1,919,688; July 25.
Bridge to metallic lens rims, Securing a metallic. J. Fielding. 1,919,938; July 25.
Bridge to nonmetallic lens rims, Securing a metallic. J. Fielding. 1,919,937; July 25.
Bromates, Preparation of. C. A. Hochwalt and J. B. Wallusis. 1,919,721; July 25.
Brooder. V. C. Getz. 1,919,884; July 25.
Brush, Dabbing. F. H. Hardy. 1,919,786; July 25.
Brush, Rotary. W. Hanelt. 1,920,077; July 25.
Bulbs closed by welding and their application to fire extinguishers, Device for opening. R. Levinson. 1,919,848; July 25.
Burner: *See*—
Gas burner. Pulverised fuel burner.
Burner. W. H. Gillis. 1,920,124; July 25.
Burner for blow torches and the like. H. M. Huffman. 1,919,945; July 25.

Bushing for tool posts and similar applications of use, Split. W. E. Fischer. 1,920,141; July 25.
Bushings, Forming threaded. L. H. Church. 1,919,826; July 25.
Butter fat, Neutralizing. E. M. Davis. 1,919,502; July 25.
Cab. T. F. Stringer. 1,919,387; July 25.
Cabinet for oil burner supply tanks. W. T. Bradbury. Des. 90,357; July 25.
Cabinet for tire chains, Sales. H. Wilcox. 1,919,349; July 25.
Cabinet, Radiator. F. W. Hvoslef. 1,919,555; July 25.
Cable, Multiple lay. J. Gröbl. 1,919,509; July 25.
Calcium hypochlorite, Recovery of. H. Reitz and H. Ehlers. 1,919,304; July 25.
Camera attachment. R. Keogh. 1,919,635; July 25.
Camera casing. W. H. Petit, and E. S. Hineline. Des. 90,377–8; July 25.
Cameras, Removable exposure and focusing device for. A. J. Gipsberg. 1,920,072; July 25.
Candles or the like, Apparatus for packaging. J. M. Hutchinson. 1,919,370; July 25.
Cap, Dispensing. N. C. Phillips. 1,919,859; July 25.
Cap for the breather pipes of internal combustion engines. J. P. Brown. 1,919,700; July 25.
Caps, Apparatus for the manufacture of wire pull bottle. F. O'Neill, jr. 1,920,018; July 25.
Carbon dioxide, Apparatus for the agglomeration of solid. W. Hessling. 1,919,698; July 25.
Carbon supply device for duplicating machines. L. J. Miller. 1,919,855; July 25.
Carburetor. C. H. Kirby. 1,919,470; July 25.
Carton forming machine. E. G. Jurgens and H. K. Becker. 1,919,787; July 25.
Cartridge for guns and ordnances. W. Haenichen. 1,920,075; July 25.
Case: *See*—
Spectacle case.
Casing element and making same, Machine. O. Wulfert. 1,919,540; July 25.
Casserole, Electric. A. T. Smith. Des. 90,388; July 25.
Caster. H. A. Currie. 1,920,004; July 25.
Caster and the like. O. W. Patterson. 1,919,666; July 25.
Casting freely oxidizable metals. J. A. Gann. 1,919,939; July 25.
Casting mold. F. M. Poe. 1,920,020; July 25.
Catheter, Prostatic. J. V. Dozier. 1,920,006; July 25.
Cell, Potential producing. S. Ruben. 1,920,151; July 25.
Cellulose fiber for nitration, Conditioning of. M. O. Schur and B. G. Hoos. 1,919,962; July 25.
Cellulose, Purification of. C. Henningsen. 1,919,329; July 25.
Cellulosic materials, Production of useful products from. H. Dreyfus. 1,919,623; July 25.
Ceramic ware, Method of and apparatus for glazing. C. Dressler. 1,919,322; July 25.
Chain: *See*—
Silent chain.
Chain pipe wrench. L. Lassen and W. Boehm. 1,919,593; July 25.
Chair: *See*—
Adjustable chair. Folding chair.
Chair. H. Morrison. Des. 90,376; July 25.
Chalice. A. F. Sonderman and N. Meinhardt. Des. 90,389; July 25.
Check-issuing machine. R. H. Helsel. 1,919,652; July 25.
Check printing and photographing machine. W. H. Lyman and E. G. Rix. 1,919,957; July 25.
Chelidamic acid compounds. M. Dohrn and P. Diedrich. 1,919,417; July 25.
Choke plug. E. A. Work. 1,919,408; July 25.
Chrome scale softening process. T. E. Dunn, D. B. Lake, and E. T. Youd. 1,919,624; July 25.
Circuit breaker. R. M. Stafford. 1,919,385; July 25.
Circuit breaker protective system. W. Luthi. 1,919,895; July 25.
Circuit breakers, Plate for. T. Lindstrom. 1,919,438; July 25.
Circuit, Call box register. A. A. Clokey. 1,920,153; July 25.
Circuit, Cathode ray oscillograph sweep. F. G. Patterson. 1,919,985; July 25.
Circuit controller. S. S. Green. 1,920,029–30; July 25.
Circuit controller. S. S. Green. 1,920,032; July 25.
Circuit controlling mechanism. C. I. McNeil. 1,920,096; July 25.
Circuit for storage batteries, Charging. W. C. Leingang. 1,919,891; July 25.
Circuit interrupting apparatus, Vacuum. D. C. Prince. 1,919,987; July 25.
Clamping device. O. E. Pease and N. G. Joseph. 1,920,130; July 25.
Clamping device. A. W. Swanson. 1,919,812; July 25.
Clamping device, Bolt and nut. A. D'Halloy. 1,919,205; July 25.
Cleaner: *See*—
Aeroplane window cleaner. Windshield cleaner.
Cleaning apparatus. J. W. J. Masseau. 1,919,854; July 25.
Cleaning device for golf balls or the like. S. A. Cogsdill. 1,920,064; July 25.
Cleaning device, Oil well. N. W. Wickersham. 1,919,350; July 25.
Closure for collapsible tubes. D. E. Dunlap. 1,919,712; July 25.
Closure for concrete mixers. J. Eggert. 1,919,212; July 25.
Closure for metal drums or the like. E. B. Poke. 1,919,597; July 25.
Closure for radiators, gasoline tanks, and the like. M. B. Andrie. 1,919,189; July 25.
Closure means for tins. E. Schmidt. 1,919,574; July 25.
Closure, Receptacle. B. F. Freeman. 1,919,695; July 25.
Closure with valve for bottles or the like. A. J. Elian. 1,920,068; July 25.
Closures, Apparatus for the manufacture of receptacle. W. A. Stephens. 1,919,578; July 25.
Cloth, Apparatus for festooning. E. C. Richardson. 1,919,747; July 25.
Cloth cutting and severing machine, Rotary. H. A. Meyer and L. J. Bloch. 1,919,899; July 25.
Clutch. R. H. Helsel. 1,919,651; July 25.
Clutch. A. J. Meyer. 1,919,523; July 25.
Coals, tars, mineral oils, and the like, Destructive hydrogenation of. M. Pier and K. Winkler. 1,919,857; July 25.
Coating composition containing a siccative. H. A. Bruson. 1,920,160; July 25.
Coating on glass surfaces, Providing a transparent. K. Konishi and S. Kodama. 1,919,517; July 25.
Cock and switch device, Combined. H. F. Woernley. 1,919,406; July 25.
Coffee, Apparatus for making. I. E. Baughman. 1,920,121; July 25.
Coil, Tuning. E. G. Ports and H. P. Miller, jr. 1,919,905; July 25.
Coil winding machine. W. N. Briggs. 1,919,928; July 25.
Coil winding machine. J. J. Vieuneau. 1,919,994; July 25.
Coin freed mechanism. C. F. Webb. 1,919,581; July 25.
Coin packaging device. P. C. Smith. 1,919,963; July 25.
Collar support. S. B. Lavick. 1,919,661; July 25.
Column, Reenforced. R. Waggoner. 1,919,491; July 25.
Combustion chamber. A. U. Wetherbee. 1,919,285; July 25.
Compact. S. Storch. 1,919,486; July 25.
Compass. E. Mayer and E. Brüche. 1,919,982; July 25.
Compressor, Air. W. W. Paget. 1,919,252; July 25.
Compressor, Steam driven fluid. B. H. Thompson. 1,919,402; July 25.
Concrete, Apparatus for mixing. W. A. Jaicks. 1,919,220; July 25.
Concrete, Apparatus for mixing. W. A. Jaicks. 1,919,724; July 25.
Condensate evacuation. H. G. Cram. 1,919,416; July 25.
Condensation system, Vacuum. V. Rosenhagen. 1,919,306; July 25.
Condenser. P. A. Bancel. 1,919,190; July 25.
Conduit. W. D. Kyle and W. G. Johnson. 1,919,734; July 25.
Confections, Making frozen. H. Falkendorf. 1,919,692; July 25.
Connecting device for electrical conductors. C. A. Bay. 1,919,457; July 25.
Connecter: *See*—
Intercell connecter.
Connection, Adjustable flue. A. Yurkovitch. 1,919,678–9; July 25.
Container: *See*—
Dispensing container. Paper container.
Container. I. E. Colvin. 1,919,501; July 25.
Container. F. C. Gluck. 1,920,074; July 25.
Container. G. C. Snell. 1,919,912; July 25.
Container for golf balls and tees. J. H. Burnet. 1,919,198; July 25.
Container for refrigerant. W. S. Josephson. 1,920,082; July 25.
Control apparatus. B. M. Mills and G. K. Crossley. 1,919,446; July 25.
Control for hoisting machines, Automatic. A. H. Wilson. 1,919,818; July 25.
Control for muller rollers, Pressure. H. K. King. 1,919,225; July 25.
Control for road graders, Power blade. G. Gardner. 1,919,648; July 25.
Control mechanism for motor vehicles. A. L. Cash. 1,919,930; July 25.
Control of electric circuits. D. C. Hoffmann. 1,919,980; July 25.
Control system for electric current rectifiers. E. Kern. 1,919,890; July 25.
Control, Two operator two hand. E. Davis. 1,919,776; July 25.
Controller for electric circuits. S. S. Green. 1,920,033–4; July 25.
Controller, Thermostatic. J. M. Larson. 1,919,337; July 25.
Controlling means. I. M. Laddon, W. A. Ring, and F. W. Herman. 1,919,520; July 25.
Conveyer. L. C. Allen. 1,919,495; July 25.
Conveyer. H. R. Gotthardt. 1,919,837; July 25.
Conveyer for cylindrical objects. L. A. Camerota. 1,919,199; July 25.
Conveyer, Mine. E. F. Muller. 1,919,302; July 25.
Conveyer system. W. T. Donaldson. 1,919,934; July 25.
Cooker and cooler. F. D. Chapman. 1,919,185; July 25.
Cooking utensil or like article. T. A. Edison, jr. Des. 90,362; July 25.

Cooling system for firearms. F. T. Moore. 1,919,242; July 25.
Cop winding frame. W. Schweiter. 1,920,111; July 25.
Copper base alloy. H. C. Jennison. 1,919,725; July 25.
Copper hydroxide, Making. H. P. Bassett and J. C. Simons. 1,920,053; July 25.
Copper, Refining of. J. P. Leemans. 1,919,699; July 25.
Copy holder. C. C. Harper and E. F. Kitendaugh. 1,919,429; July 25.
Core forming machine for electrical apparatus and making cores. F. E. Fisher. 1,920,155; July 25.
Core plug. R. J. Brown and R. W. Van Peenan. 1,919,769; July 25.
Cores for dynamo-electric machines, Forming. T. A. Wry. 1,919,995; July 25.
Corn planter. J. Salsburg. 1,919,897; July 25.
Corrugating apparatus. J. Stanitz and G. D. Boyer. 1,919,869; July 25.
Corset. J. Field. 1,919,293; July 25.
Corset and brassière, Combination. C. H. Schopbach. 1,919,261; July 25.
Cotton seeds and other grain, Process and apparatus for treating. J. R. Richardson. 1,920,107; July 25.
Coupler. W. F. Richards. 1,919,305; July 25.
Coupler operating mechanism. W. J. Regan and A. J. Lenherr. 1,919,668; July 25
Coupler, Pipe. L. H. Church. 1,919,319; July 25.
Coupler, Pivotal. S. B. Haseltine. 1,919,720; July 25.
Coupling: *See*—
Hose coupling. Train pipe coupling.
Shaft coupling.
Coupling. R. L. Fairbank. 1,919,780; July 25.
Coupling. M. Hofmann. 1,919,654; July 25.
Coupling device. G. W. Amor. 1,919,353; July 25.
Cover for automobile rumble seat. J. J. Quinn. 1,919,744; July 25.
Cowl ventilator. S. H. H. Kuensel. 1,919,733; July 25.
Crane frame. E. G. Deucher. 1,919,860; July 25.
Crane, Portable. R. T. Bowling. 1,919,823; July 25.
Crate, Bottle. A. L. Foreman. 1,919,428; July 25.
Current, Apparatus for measuring alternating. H. Walter. 1,919,284; July 25.
Currents, Apparatus for commutating or periodically interrupting electric. J. F. G. P. Hartmann. 1,919,633; July 25.
Curtain for presses, Safety. R. A. Shaw. 1,919,868; July 25.
Cut-out device for the starting motors of internal combustion engines, Automatic. E. B. Wilcox. 1,919,817; July 25.
Cutter: *See*—
Pipe cutter. String bean cutter.
Cutter bit and chuck. T. M. Stephens. 1,920,035; July 25.
Cutting tool. W. E. Edwards. 1,919,420; July 25.
Damper. H. Rosenberg. 1,919,863; July 25.
Damper, Automatic fire protection. W. Ewald. 1,919,625; July 25.
Dental roll dispenser. I. E. Siqveland. 1,919,535; July 25.
Dental water heater. R. M. Kerr. 1,919,950; July 25.
Detector for antifreeze solutions, Dilution. P. K. Frolich and S. P. Gildersleeve. 1,919,628; July 25.
Developing apparatus. C. Bodan. 1,919,926; July 25.
Dialkoxy-benzene compounds, New 1.4-. H. Wagner and H. Kracker. 1,919,580; July 25.
Die for producing spirally corrugated tubing. A. Picece and S. Guarnaschelli. 1,919,254; July 25.
Direct-current voltage transformation apparatus. R. J. Rockwell. 1,920,150; July 25.
Diseased tissue, Effecting the bloodless removal of. L. L. Doane. 1,919,543; July 25.
Dishwasher. H. G. Davis. 1,919,541; July 25.
Disinfectant. R. Lehmann, F. Reckmanns, K. Dobmaier, and J. Willems. 1,919,298; July 25.
Disinfectant composition. M. Engelmann. 1,919,936; July 25.
Disinfectant composition, Seed. M. S. Kharasch. 1,919,732; July 25.
Disinfectant, Seed. M. Engelmann. 1,920,008–9; July 25.
Disinfectant, Seed and plant. M. S. Kharasch. 1,919,729; July 25.
Dispenser: *See*—
Milk dispenser.
Dispensing apparatus, Fluid. R. L. Rensenhausen. 1,919,257; July 25.
Dispensing container. F. P. Swallow. 1,919,605; July 25.
Dispensing device. G. H. Yasso. 1,919,582; July 25.
Display device. F. J. Devlin. 1,919,321; July 25.
Display sheet-supporting structure. E. R. Campbell. 1,919,830; July 25.
Display stand. C. E. Little. 1,919,439; July 25.
Display stand. H. E. Shaw. Des. 90,386; July 25.
Display unit, Commercial. W. K. Haythorne. Des. 90,367; July 25.
Distillates, Treating cracked. R. E. Burk. 1,919,825; July 25.
Distillation of tar, Method and apparatus for the. S. P. Miller. 1,919,240; July 25.
Distilling carbonaceous fuels, Method for destructively. G. Patart. 1,919,253; July 25.
Door. J. G. Dudley. 1,919,419; July 25.
Door. G. F. Wetzel. 1,919,266; July 25.
Door check. L. L. Levene. 1,919,338; July 25.
Door construction. M. L. Cornell. 1,919,685; July 25.
Door control equipment. J. C. McCune. 1,919,443; July 25.
Door, Flush. W. P. Murphy. 1,919,702; July 25.
Doorlock. J. A. Rymer. 1,919,750; July 25.
Door operating means. K. Salmen and E. A. Pearson. 1,919,864; July 25.
Door panel construction. B. J. Triller. 1,919,311; July 25.
Door switch or the like. H. A. Douglas. 1,919,210; July 25.
Draft gauge. L. M. Ellison. 1,919,713; July 25.
Draft rigging. J. H. Link. 1,919,736; July 25.
Drag bit, Detachable blade. H. J. Hawthorne. 1,919,553; July 25.
Drain valve. R. H. George. 1,919,606; July 25.
Drawing tubing containing a strip of contrasting glass, Apparatus for. W. H. Said. 1,919,250; July 25.
Dresser and mirror, Combined. F. M. McClure. Des. 90,370; July 25.
Drier: *See*—
Paper drier. Rotary drier.
Photo-print drier.
Drill: *See*—
Rock drill.
Drill pressure in deep-boring plants, Apparatus for automatically regulating the. W. H. Besigk. 1,919,611; July 25.
Drill stem for flush joint drilling apparatus. R. W. Craig. 1,919,931; July 25.
Drive, Hydraulic. F. Walther. 1,920,042; July 25.
Driving mechanism. C. H. Havill. 1,920,079; July 25.
Dual and single rim wheel. W. S. Brink. 1,919,499; July 25.
Dust collector for inclosed brake. F. E. Payne. 1,919,343; July 25.
Dust from air or gases, Apparatus for separating. G. Raw. 1,919,303; July 25.
Dye printing, Vat. L. Lichtenstein and J. Klein. 1,919,792; July 25.
Edge-setting machine. A. R. Morrill. 1,919,740; July 25.
Electric control system. D. E. Trucksess. 1,919,814; July 25.
Electric discharge device, Gaseous. W. de Groot. 1,919,932–3; July 25.
Electric distribution system. G. E. Jansson. 1,919,466; July 25.
Electric heater. E. S. Johnson. 1,919,558; July 25.
Electric heating system. L. A. Kempton. 1,919,949; July 25.
Electric motor. C. E. L. Lipman. 1,919,522; July 25.
Electric power converting apparatus. A. S. Fitz Gerald. 1,919,976; July 25.
Electric signal system. J. C. McCune. 1,919,441; July 25.
Electric switch. R. W. Goff. 1,919,979; July 25.
Electric switch. S. S. Green. 1,920,031; July 25.
Electric switch. P. G. Shaw. 1,919,990; July 25.
Electrical heater for thermal relays. C. H. Chapman. 1,919,975; July 25.
Electrical measurements, Process and apparatus for making. G. A. Stone. 1,919,538; July 25.
Electrical network. M. Vos and T. Laurent. 1,920,041; July 25.
Electrical switch house. J. H. Powers. 1,919,986; July 25.
Electrical switches or distribution boxes, Housing of. L. Holm. 1,919,432; July 25.
Electricity meter. A. L. Emens. 1,919,213–14; July 25.
Electrode for electric welding, Fusible. D. Lagrange and F. de Pape. 1,920,148; July 25.
Electrogravity lock. A. E. Jenkins. 1,920,080; July 25.
Electromagnetically operated track switch for toy railroads. M. Caruso. 1,919,272; July 25.
Electroresponsive time element device. G. B. Starle. 1,919,991; July 25.
Electron emitter for electron discharge devices. H. W. Parker. 1,919,596; July 25.
Emblem holder for radiator caps. S. A. Sjogreen and J. W. Johnson. Des. 90,387; July 25.
Embossing plastic articles, Apparatus for. F. D. Fowler. 1,919,363; July 25.
Emulsions, Resolving. T. B. Wayne. 1,919,871; July 25.
End expander for structural toy rods. F. Schroeder. 1,920,021; July 25.
Endpiece and temple for spectacles, Combined. S. E. Bouchard. Des. 90,354; July 25.
Engine: *See*—
Internal combustion engine.
Engine. C. F. Bachle. 1,919,497; July 25.
Engine. T. Linga. 1,919,703; July 25.
Engine. A. J. Meyer. 1,919,476; July 25.
Engine control means. M. A. Sticelber. 1,919,536; July 25.
Engine cooling system, Internal combustion. W. J. Smith. 1,919,577; July 25.
Evaporator. A. H. Baer. 1,920,050; July 25.
Excavating machine. E. J. Kane. 1,919,515; July 25.
Excavator, Drag line. F. Lang. 1,919,228; July 25.
Exercising apparatus. A. S. Fitzgerald. 1,919,627; July 25.

Exhaust operated heater. F. Buschbaum. 1,920,059; July 25.
Exhibitor, Changeable. A. J. Kauffman. 1,920,084; July 25.
Expanding mill. O. F. Olson. 1,919,390; July 25.
Expansible element, Mechanically. R. E. Lyford. 1,919,340; July 25.
Expansion joint for tiled bathtub recesses. W. G. Anderson. 1,919,354; July 25.
Explosion turbine plant. H. Holzwarth. 1,920,143; July 25.
Extractor: *See*—
Hydraulic sand extractor. Waffle extractor.
Eye testing apparatus. J. D. Larkin, 3d. 1,919,791; July 25.
Fabric or similar article, Textile. J. Schweizer. Des. 90,384–5; July 25.
Fan, Temperature controlled furnace. S. E. Peters. 1,919,743; July 25.
Fastener: *See*—
Slide fastener.
Fastener installation, Snap. A. W. Kimbell. 1,919,951; July 25.
Fastener setting device. C. L. Hall. 1,919,941; July 25.
Fastener, Slide. G. Johnson. 1,919,946; July 25.
Fat-soluble-vitamin-concentrates, Preparing. H. A. Holaday and A. Black. 1,919,369; July 25.
Faucet. J. Balton. Des. 90,353; July 25.
Feed mechanism for grinding machines. A. A. Kottman. 1,919,790; July 25.
Feeding mechanism, Paper. I. C. Klepper. 1,919,226; July 25.
Fiber storage and preservation. T. B. Munroe and A. C. Lathrop. 1,920,129; July 25.
Figure. R. Wilhelm. 1,920,027; July 25.
Figures, Actuated. S. B. Allen. 1,919,188; July 25.
Filler for egg cartons and the like. L. Benoit. 1,919,458; July 25.
Films and sheets, Apparatus for making flowed. J. F. Walsh, J. H. Stevens, K. Flynn, A. F. Caprio, and T. E. Alcorn. 1,920,118; July 25.
Films, Securing synchronism in sound. K. Degl. 1,919,585; July 25.
Filter: *See*—
Household filter.
Filter. V. C. Norquist and E. E. Treanor. 1,919,448; July 25.
Filter and screen, Combined color. G. S. Rowell. 1,919,483; July 25.
Filter bed cleaning device for sewage clarification tanks. W. C. Laughlin and A. B. Asch. 1,919,567; July 25.
Filter for smoking appliances, Absorbent. P. H. Minton. 1,919,959; July 25.
Filtering means. T. Schoenlau. 1,919,805; July 25.
Filtration. F. X. Govers. 1,920,126; July 25.
Filtration. J. A. Pickard. 1,919,570; July 25.
Fire apparatus, Automatic. W. B. Griffith. 1,919,508; July 25.
Fire extinguisher. W. B. Bronander. 1,919,316; July 25.
Fire-extinguishing foam, Portable apparatus for producing. F. L. Boyd. 1,919,616; July 25.
Fire extinguishing system, Sprinkler. W. B. Griffith. 1,919,507; July 25.
Fire-fighting equipment. J. J. Gilsenan. 1,919,365; July 25.
Fluid heater. R. K. Behr. 1,919,192; July 25.
Fluid operated motor. H. Hueber and E. C. Horton. 1,920,146; July 25.
Fluid pressure brake. C. C. Farmer. 1,919,423–4; July 25.
Fluid pressure brake. J. C. McCune. 1,919,442; July 25.
Fluid pressure brake. J. C. McCune. 1,919,444; July 25.
Fluid transmission system. R. P. Pescara. 1,920,104; July 25.
Focusing means for photographic cameras and projectors. C. E. Hillery-Collings. 1,919,513; July 25.
Folder for sewing machines. P. E. Havel, G. I. and H. Goldwyn. 1,919,942; July 25.
Folding chair. W. C. Rastetter. 1,919,746; July 25.
Folding table. B. Boeswinkle. 1,919,613; July 25.
Foot rest. F. A. Alsen. 1,919,680; July 25.
Footwear area calculator. J. Siksta. 1,919,383; July 25.
Frame: *See*—
Cop winding frame. Saw frame.
Crane frame.
Frame, Centrifugal separator. V. J. Gilmore. Des. 90,365; July 25.
Frame for refrigerator doors. K. J. Durant and C. F. Hillidring. 1,920,007; July 25.
Frames, Method of and apparatus for manufacturing tuft yarns. C. Alvord. Re.18,903; July 25.
Frequency division system. R. M. Page and W. F. Curtis. 1,919,251; July 25.
Frequency producer. Subharmonic. W. A. Marrison. 1,919,795; July 25.
Friction block. J. S. Thompson. 1,919,967; July 25.
Friction brake. W. A. Blume. 1,919,974; July 25.
Friction brake. H. A. Gillies. 1,920,010; July 25.
Friction clutch block. W. A. Blume. 1,919,998; July 25.
Fruit holder. A. P. Barnes. 1,919,765; July 25.
Fruit treating machine, Citrus. T. D. McCall. 1,920,095; July 25.
Fuel injection device for internal combustion engines. O. Simmen. 1,919,601; July 25.
Fuel pump. A. M. Babitch. 1,919,496; July 25.
Fuel valve. G. Pielstick. 1,919,904; July 25.
Furfural, Manufacturing. H. J. Brownlee. 1,919,877–8; July 25.
Furnace: *See*—
Rotary furnace.
Furnace. E. A. Brown, jr., and W. S. Unger. 1,919,412; July 25.
Furnace. J. G. Coutant. 1,919,203; July 25.
Furnace temperature and furnace wall construction, Control of. F. G. Ely. 1,919,324; July 25.
Fuse and making it, Renewable electric. F. N. Conant. 1,919,273; July 25.
Fuse, Electric. F. N. Conant. 1,919,274; July 25.
Game of skill, Playing a. C. B. Winzer. 1,919,706; July 25.
Game projecting apparatus. F. Baker, jr., and L. J. R. Holst. 1,919,922; July 25.
Garage. A. N. Becker. 1,919,269; July 25.
Garment, Elastic. J. Field. 1,919,292; July 25.
Gas, Apparatus for purifying exhaust. J. Finn, jr. 1,919,626; July 25.
Gas burner. C. G. Irish, T. E. Burrington, and F. M. Thomas. 1,919,591; July 25.
Gas burner. H. Kielberg. 1,919,788; July 25.
Gas choke for plunger lift devices. H. W. Fletcher. 1,919,548; July 25.
Gas offtake apparatus. W. J. B. Leech, S. Hay, H. Hollings, and A. E. Burton. 1,919,955; July 25.
Gas purification. H. H. Dow. 1,919,778; July 25.
Gas regulator. G. W. Lorimer. 1,919,894; July 25.
Gaseous content in liquids, Apparatus for analysing the. O. Rodhe. 1,919,861; July 25.
Gaseous mixtures containing hydrogen, Treatment of. M. C. Jean and P. Matile. 1,919,842; July 25.
Gate elevator, Tail. L. S. Troell. 1,919,608; July 25.
Gauge: *See*—
Draft gauge.
Gauging machine. P. H. Hutchinson. 1,919,434; July 25.
Gear: *See*—
Motor gear. Retractable landing gear.
Gear speed adapted, Spur. R. O. Helgeby and D. D. Waller. 1,919,512; July 25.
Geophysical exploration method. O. H. Truman. 1,919,697; July 25.
Glass and method of producing it, Low expansion black. W. C. Taylor. 1,919,264; July 25.
Glass to prepare it for sealing, Treating laminated. G. B. Watkins. 1,919,757; July 25.
Glass, Wire. N. Welkovitz and A. S. Goldstein. 1,919,873; 1,919,873; July 25.
Glassified surface, Producing a. N. Marra. 1,920,093; July 25.
Governor. G. Oetzel. 1,919,449; July 25.
Grid structures, Making. G. F. Murphy. 1,919,984; July 25.
Grinder, Brake shoe. M. Fisher. 1,919,545; July 25.
Grinding machine. C. Booth. 1,919,615; July 25.
Grinding machine and the like. G. Gorton. 1,920,073; July 25.
Grip handle, Multiple. H. S. Janes. 1,919,221; July 25.
Grommets to metal plates, Attaching. H. S. Hassliquist. 1,919,552; July 25.
Guide, Auger. E. A. Moller. 1,919,900; July 25.
Guide, Sash. W. S. Hamm and H. D. Sevison. 1,919,367; July 25.
Guiding device, Cloth. C. H. Coolidge. 1,919,291; July 25.
Gun mount and locking device therefor, Machine. G. Johnston. 1,919,223; July 25.
Hair confiner, Back. C. Casper. 1,919,318; July 25.
Hair waving apparatus. O. Selter. 1,919,282; July 25.
Hair waving device. R. B. Seward. 1,919,600; July 25.
Hand bag. D. Karron. 1,919,333; July 25.
Handle construction. G. C. Wilson. 1,919,455; July 25.
Handling bent metal, Apparatus for. S. D. Cooper. 1,919,186; July 25.
Harvester, Corn. L. C. Forrest. 1,919,783; July 25.
Harvester-thresher, Combination. W. F. MacGregor and N. R. Krause. 1,919,440; July 25.
Hat storage box. E. Kranzfelder. 1,919,562; July 25.
Headlight testing device. H. E. Childs. 1,919,200; July 25.
Heat interchanging apparatus and process. J. L. Chavanne. 1,920,122; July 25.
Heat-treating articles, Apparatus for. H. Blount and H. Sheel. 1,919,821; July 25.
Heat treatment for aluminum base alloys. A. J. Lyon and S. Daniels. 1,920,090; July 25.
Heater: *See*—
Beverage water heater. Liquid heater.
Dental water heater. Vegetable and orchard heater.
Electric heater.
Exhaust-operated heater. Water heater.
Fluid heater.
Heater. W. L. Decker. 1,919,204; July 25.
Heating elements, Forming electric resistance. E. L. Wiegand. 1,919,816; July 25.
Heating system. E. J. Schroeder. 1,919,576; July 25.
Hemstitching machines, Foot and cutting attachment. E. Prazak. 1,920,105; July 25.
High pressure, Method and apparatus for generating and using. J. W. Martin, jr. 1,920,094; July 25.
Hinge construction. J. Wiedemann. 1,920,044; July 25.

Hitch device. C. G. Strandlund. 1,919,915; July 25.
Holder: *See*—
Blotter holder. Pipe holder.
Copy holder. Sack or bag holder.
Fruit holder.
Holder for cosmetics. A. Hagel. 1,919,785; July 25.
Hood, Baby carriage. G. Stinson. 1,919,603; July 25.
Hook: *See*—
Rug hook.
Hookup, Brake. M. M. Cunningham. 1,919,187; July 25.
Hood top and radiator shell for automobiles and the like, Combined. G. E. Ireland. 1,919,656; July 25.
Horn. H. Hueber. 1,920,147; July 25.
Hose. G. K. Bedur. 1,919,356; July 25.
Hose coupling. F. Reutter and J. H. Goss. 1,919,860; July 25.
Hosiery. W. L. Thompson. 1,919,487; July 25.
Hot box control. H. W. Faus. 1,919,693; July 25.
House. J. C. Stedman. Des. 90,391; July 25.
House, Poultry. C. W. Barney. 1,920,051; July 25.
Household filter. K. Imhoff. 1,919,331; July 25.
Hub cap and lock therefor, Wheel. H. Walters. 1,919,492; July 25.
Humidifier. A. Diehl. 1,919,777; July 25.
Humidostat. C. F. Warrick. 1,920,043; July 25.
Hydraulic brake. C. E. Furgason. 1,919,465; July 25.
Hydraulic sand extractor. R. A. Hill. 1,919,653; July 25.
Hydrocarbons, Apparatus for treating. W. M. Cross. 1,919,320; July 25.
Hydrocarbons of relatively light color and product thereof, Producing polymerized unsaturated. J. Hyman. 1,919,722; July 25.
Hydrogen halide to acetylene, Adding. W. O. Herrmann and E. Baum. 1,919,886; July 25.
Hydrogen sulphide, Producing. G. Lynn, E. M. Allen, and B. K. Beecher. Re18,902; July 25.
Ignition means for oil burners. L. F. Spear. 1,920,115; July 25.
Imides of dicarboxylic acids, Manufacture of. A. O. Jaeger, L. C. Daniels, and H. J. West. 1,919,889; July 25.
Impeller. W. J. Woods. 1,919,970; July 25.
Impregnated product and making the same. F. Groff. 1,919,697; July 25.
Impulse storage mechanism. C. E. Stewart. 1,919,992; July 25.
Indicator. J. D. Langdon. 1,919,436; July 25.
Indophenols and sulphur dyestuffs therefrom. E. Chapman. 1,919,773; July 25.
Ingot mold. T. E. Dodds. 1,919,622; July 25.
Injector, Centrifugal air or gas. A. R. Kuns. 1,919,847; July 25.
Ink, Device for use in mixing printer's. H. A. Bragg. 1,919,498; July 25.
Ink fountain divider and pad. M. J. Troy. 1,919,283; July 25.
Insect infestation, Elimination of. N. Tischler. 1,920,026; July 25.
Insect trap. H. K. Taylor. 1,919,916; July 25.
Insulating covering. W. E. Ryder and W. D. Reber. 1,919,532; July 25.
Insulation, Apparatus for testing. C. L. Pfeiffer. 1,919,802; July 25.
Insulation, Electric. J. H. White. 1,919,267; July 25.
Insulator, Shock. C. Saurer. 1,919,484; July 25.
Integrating mechanism. H. J. Stehli. 1,920,024; July 25.
Interference in radio selector systems, Apparatus for suppressing. L. L. Jones. 1,919,948; July 25.
Interlocking switch. L. J. Stephenson. 1,919,918; July 25.
Internal combustion engine. H. C. Edwards. 1,919,277; July 25.
Internal combustion engine. J. O. Fink. 1,919,544; July 25.
Internal combustion engine. J. Good. 1,920,012; July 25.
Internal combustion engine. P. Schmaljohann. 1,919,572; July 25.
Internal combustion engine. T. L. Sherman. 1,919,755; July 25.
Internal combustion engine. B. Thulin. 1,919,488; July 25.
Internal combustion engine. M. Tibbetts. 1,919,348; July 25.
Internal combustion engine. L. M. Woolson. 1,919,286; July 25.
Internal combustion engine, Rotary. C. Bancroft. 1,919,355; July 25.
Internal combustion engine, Two cycle. C. G. Curtis and E. R. Newton. 1,919,529; July 25.
Intercell connecter. W. Nyce. 1,919,902; July 25.
Invertase preparation and making the same. L. Wallerstein. 1,919,675; July 25.
Invertase preparations, Making. L. Wallerstein. 1,919,676; July 25.
Iron, Griddle. R. T. Ganary. Des. 90,364; July 25.
Jacketed apparatus for converting organic matter. J. B. Goldsborough. 1,919,836; July 25.
Jamb, Metal door. E. G. Reinhardt. 1,919,392–3; July 25.
Jar cap wrench. W. J. Adams. 1,919,708; July 25.
Jar, Glass. F. J. Petty. Des. 90,379; July 25.
Joint: *See*—
Ball and socket expansion joint.
Kicker, Knee. E. V. Hoobler. 1,919,840; July 25.
Kiln. H. M. Robertson. 1,919,258; July 25.
Kiln, Dry. G. H. Woolhouse. 1,919,646; July 25.
Kitchen, Portable. L. E. Martin. 1,919,898; July 25.
Knife for thread-cutting temples. H. F. Livermore. 1,919,638; July 25.
Knockdown display rack. I. A. Deline. 1,919,687; July 25.
Lace attachment for flat knitting machines. K. R. Lieberknecht. 1,920,087; July 25.
Lacquers, artificial masses, and solutions of their constituents, Production of. O. Jordan. 1,919,727; July 25.
Lamp shade. E. Schwarz. Des. 90,381–3; July 25.
Lathe. H. W. Melling. 1,919,738; July 25.
Leather as applied to backs of loose leaf binders, Embossing. J. Cooper. 1,919,827; July 25.
Leer. L. Beon. 1,919,923; July 25.
Life preserver. F. S. Genovese. 1,920,071; July 25.
Life-safety apparatus. A. Bauman. 1,920,054; July 25.
Light and operating the same, Source of. E. Von Lepel. 1,919,490; July 25.
Light signal. E. E. Edwards. 1,919,276; July 25.
Lining for acid containers, Rubber. W. T. Haines. 1,919,366; July 25.
Lipstick case. R. Tricard. Des. 90,393; July 25.
Liquid cooling installation. C. Temkovits. 1,919,606; July 25.
Liquid depth regulator for baths, tanks, and the like. S. Casani. 1,920,062; July 25.
Liquid flow controlling device. G. E. Griffin. 1,919,631; July 25.
Liquid from gases and vapors, Removing entrained. J. R. Schonberg. 1,919,599; July 25.
Liquid heater. J. W. Anderson. 1,919,681; July 25.
Liquids, Apparatus for the evaporation of. R. A. Stokes and E. G. L. Roberts. 1,919,400; July 25.
Liquids from solvents and the apparatus therefor, Recovering volatile. W. K. Lewis. 1,919,594; July 25.
Loading machine. A. Hauge. 1,919,217; July 25.
Lock: *See*—
Electrogravity lock. Refrigerator door lock.
Lock and latch. S. T. Allen. 1,919,763; July 25.
Lock for gas meters, Metal. O. Morreale and S. Guarino. 1,919,701; July 25.
Lock for light bulbs. G. Gockstetter. 1,920,011; July 25.
Lock-nut device. A. D'Halloy. 1,919,621; July 25.
Locking attachment. R. Y. Mickler. 1,920,128; July 25.
Lubricant. H. M. Rosen. 1,920,161; July 25.
Lubricating device. W. K. Schaefer. 1,919,451; July 25.
Lumber rack. C. K. Cady. 1,919,271; July 25.
Machine for affixing stamps, labels, and the like. A. G. Cogswell. 1,919,415; July 25.
Machine for forming and fastening. A. E. Borton. 1,919,999; July 25.
Machine for issuing tickets. F. E. Langdon. 1,920,085; July 25.
Machine for making building blocks. J. B. Newson. 1,919,801; July 25.
Machine for making friction elements. H. N. Smith. 1,920,023; July 25.
Machine for molding articles. H. Sharpe. 1,919,807; July 25.
Machine for pulling plants. H. A. Sadler. 1,919,396; July 25.
Machine for rolling tubular products. M. H. Damerell. 1,919,686; July 25.
Machine for striping. C. W. Steele. 1,919,386; July 25.
Machine for the manufacture of laminated fibrous pulleys. G. R. Fox. 1,919,694; July 25.
Machine for truing tile. A. Happel. 1,920,076; July 25.
Machine for winding paper belts. J. H. A. Krulmel. 1,919,518; July 25.
Magnetic material. H. Scholz. 1,919,806; July 25.
Map, Combined shade and guide. J. Moricca. 1,920,099; July 25.
Marine boiler. G. Lasker. 1,919,521; July 25.
Marker, Memorial. A. A. Rieck. 1,919,530; July 25.
Massage device. J. H. Pinkston. 1,919,571; July 25.
Mat, Composite. B. Bronson. 1,920,057; July 25.
Mattress, Wire. W. W. Impey. 1,919,841; July 25.
Measuring and indicating system. A. A. Boetken. 1,919,803; July 25.
Measuring system, Liquid. W. O. Crosby. 1,919,828; July 25.
Meat-cubing machine. J. P. Spang. 1,919,964; July 25.
Merchandise dispensing apparatus. E. J. Raymond. 1,919,667; July 25.
Metal article, Protected. J. H. Young. 1,919,677; July 25.
Metal joint and making the same, Compressed. C. C. Sunderland. 1,919,347; July 25.
Metal and metal oxide, Porous. J. Koenig and F. Stoewener. 1,919,730; July 25.
Metals and metallic oxides, Recovering. C. W. Johnston. 1,919,947; July 25.
Meter: *See*—
Electricity meter.
Meter device, Detachable. L. R. Sherwood. 1,919,382; July 25.
Milk dispenser. R. Mack. 1,920,016; July 25.
Mill: *See*—
Expanding mill. Rolling mill.
Milling machine. J. M. Christman. 1,919,290; July 25.
Mining double or parted seams, Method and apparatus for. E. Ramsay. 1,919,528; July 25.
Mirror, Concave. G. Kögel. 1,919,561; July 25.

Mirror, Rear vision. C. W. McKinley. 1,919,475; July 25.
Mixing apparatus, Tippable and portable. J. Thordsen. 1,920,025; July 25.
Mixing valve. F. A. Leigh. 1,919,234; July 25.
Mixtures by distillation, Separation of. O. Schmidt and O. Grosskinsky. 1,919,752; July 25.
Mold: *See*—
Casting mold. Rubber vulcanization mold.
Ingot mold.
Molded products and manufacturing the same, Porous. M. H. Kliefoth. 1,919,372; July 25.
Molding. E. Lewis. 1,919,300; July 25.
Molding and pressing method and apparatus. J. N. Whitehouse. 1,919,918; July 25.
Molding apparatus. L. E. Shaw. 1,919,534; July 25.
Mop. A. C. Kootz. 1,919,471; July 25.
Motor: *See*—
Fluid operated motor. Synchronous motor.
Motor assembly, Shielded. C. E. Johnson. 1,919,557; July 25.
Motor control system. S. J. Nogosek. 1,919,525; July 25.
Motor control system. C. Schiebeler and A. Weiss. 1,919,989; July 25.
Motor gear. W. Ballentin, known as Mielke and E. Uhlich. 1,919,876; July 25.
Motor governing device. D. J. Dolan. 1,920,067; July 25.
Motor vehicle brake. H. Hargreaves. 1,920,078; July 25.
Mottled articles, Manufacturing molded. C. Woodruff. 1,920,120; July 25.
Mounting for boilers, Drum. M. Liptak. 1,919,893; July 25.
Multiple diaphragm pump. E. C. Horton. 1,920,014; July 25.
Navigational instrument. H. M. Jensen, J. R. Gingrich, and G. Medina. 1,919,222; July 25.
Nipple, Nursery. A. J. Stock. 1,919,537; July 25.
Nozzle, Dispensing. J. E. Zoerb. 1,920,047; July 25.
Nut castellating machine. P. F. Rossmann. 1,920,108; July 25.
Nut for nut and screw fastened installations. C. L. Hall. 1,919,940; July 25.
Nut, Wing. H. F. Kellogg. 1,919,728; July 25.
Odometer. J. Zubaty. 1,919,493; July 25.
Odometers, Quick reset mechanism for. R. O. Helgeby. 1,919,511; July 25.
Oil cracking apparatus, Cooling and safeguarding. H. Thomas, C. H. Thayer, and F. A. Thorngate. 1,919,672; July 25.
Oil, Method and apparatus for cracking. C. R. Ewing and T. Montgomery. 1,919,691; July 25.
Oil Purification of. W. G. Hoffman and J. R. Miller. 1,919,655; July 25.
Oil shales, System of mining. S. N. Karrick. 1,919,636; July 25.
Oils from mineral oils, Recovery and purification of lubricating. F. X. Govers. 1,920,125; July 25.
Oils, Hydrocarbon mineral. C. J. Rodman and R. P. Dunmire. 1,919,669; July 25.
Oils, Hydrogenation of hydrocarbon. H. W. Fisher. 1,920,140; July 25.
Oiling system for multiple cylinder internal combustion engines, Gear. E. P. Tea. 1,920,134; July 25.
Olefines, Sulphating. B. T. Brooks and E. J. Cardarelli. 1,919,617; July 25.
1-amino 10-anthrones and the products obtainable thereby, Preparing. G. Kränslein, W. Broeker, and A. Wolfram. 1,919,563; July 25.
Opener, Fruit jar. C. A. Schacht. 1,919,866; July 25.
Opener, Package. C. J. Robinson. 1,919,907; July 25.
Ophthalmic bridge mounting. L. J. Kuehn. 1,919,336; July 25.
Orchestral instrument. H. Luedtke. 1,919,849; July 25.
Orthodontic appliance. J. Aderer. 1,919,762; July 25.
Oscillation generator. A. B. Tripp. 1,919,993; July 25.
Overload release mechanism. J. M. McClatchie. 1,920,017; July 25.
Oxygen-absorbing mineral hydrocarbon polymers, Manufacture of products containing. J. Hyman. 1,919,723; July 25.
Oxygen content of liquid or gases, Determining and recording. C. Pettingill. 1,919,859; July 25.
Package and sealing the same. W. M. Williams. 1,919,819; July 25.
Packer, Fruit. R. P. Clark. 1,919,414; July 25.
Packer, Well. P. H. Mack. 1,919,853; July 25.
Packing and display container. M. M. Einson. 1,919,880; July 25.
Packing and display container. M. M. Einson and A. J. Tanner. 1,919,879; July 25.
Packing and making the same, Metallic. M. M. Cody. 1,919,463; July 25.
Packing rings, Method and apparatus for making. W. Cords. 1,919,584; July 25.
Packing strips, Apparatus for producing. G. Ruegenberg. 1,920,109; July 25.
Padlock. E. B. Stone. 1,920,116; July 25.
Paper, Apparatus for coloring and decorating. J. D. MacLaurin. 1,919,798; July 25.
Paper container. R. Oliver. 1,919,569; July 25.
Paper drier. J. W. Vedder. 1,919,312; July 25.
Paper making industry, Method of and machine for use in. W. E. Beach. 1,919,289; July 25.
Parking device for automobiles. B. Walker. Re18,904; July 25.
Partition and wall. M. K. McCosh. 1,919,568; July 25.
Partition, Metal. A. Freeman. 1,919,716; July 25.
Patch, Tire. W. H. Hodgson. 1,919,368; July 25.
Pedal, Foot. F. W. Trabold. 1,919,968; July 25.
Pedestal for tables and the like. J. W. Beiger. 1,919,193; July 25.
Pencil and finishing same. W. Daneke. 1,920,005; July 25.
Phosphorus and alumina, Process for the simultaneous production of. R. Suchy and H. F. A. E. Krause. 1,919,310; July 25.
Photographic copying apparatus. L. E. Hutchings. 1,919,433; July 25.
Photographic relief. L. T. Troland and R. D. Eaton. 1,919,673; July 25.
Photographic screen. G. S. Rowell. 1,919,481–2; July 25.
Photo-print drier. G. N. Dunham. 1,919,275; July 25.
Pictures, Apparatus for making animated. G. Lane. 1,919,735; July 25.
Pictures, Scoring motion. W. E. Garity. 1,919,364; July 25.
Pigments, Preparing dispersions of insoluble. H. A. Endres. 1,919,715; July 25.
Pigments, Preparing insoluble. H. A. Endres. 1,919,714; July 25.
Piling implement. R. T. Bowling. 1,919,822; July 25.
Pipe-bending machine. F. Hilgers. 1,919,859; July 25.
Pipe cutter. J. T. Ellis. 1,919,881; July 25.
Pipe finishing method and apparatus. J. V. Caputo. 1,919,684; July 25.
Pipe holder. A. P. Fiske. 1,919,362; July 25.
Pipe table. M. Rosenkrans. 1,919,394; July 25.
Pipes in wells, Apparatus for lowering. G. G. Harrington. 1,919,510; July 25.
Piston ring arbor, Knurled. T. E. McFall. 1,919,239; July 25.
Piston slap in internal combustion engines, Device for reducing. D. M. Solenberger. 1,920,114; July 25.
Plastic mass. C. Schönburg. 1,919,575; July 25.
Plastic strip material, Apparatus for forming. T. B. Farrington. 1,919,361; July 25.
Plate or similar article. H. Moller. Des. 90,374; July 25.
Platen for printing and addressing machines. C. C. McCain. 1,919,958; July 25.
Plow, Weed or quack grass. M. J. Petersen. 1,919,705; July 25.
Plug: *See*—
Choke plug. Core plug.
Plunger, Automatic safety. S. L. Belknap. 1,919,647; July 25.
Plunger, Pneumatic lift. N. H. Ricker. 1,919,529; July 25.
Plunger, Pneumatic swab. H. W. Fletcher. 1,919,547; July 25.
Plunger, Well. J. W. Pippin. 1,919,641; July 25.
Pocket receptacle, Flexible. W. R. Buxton. 1,920,060; July 25.
Pole gaining machine. V. G. Oliver. 1,919,249; July 25.
Pompon and making the same. H. H. Rubin. 1,919,450; July 25.
Pool ball racking device, Mechanical. J. J. Grantonic. 1,919,296; July 25.
Pose reflecting apparatus. L. G. Simjian. 1,919,642; July 25.
Post: *See*—
Binding post.
Potentiometers, Fine adjustment for. J. L. Bonanno. 1,919,614; July 25.
Power installation. P. Le Sur. 1,919,981; July 25.
Power plant. H. Holzwarth. 1,920,142; July 25.
Power plant. H. A. Knox and B. F. Baker. 1,919,227; July 25.
Power supply system. H. O. Siegmund. 1,919,808; July 25.
Power transmission mechanism, Variable speed. F. A. Hayes. 1,919,218; July 25.
Press: *See*—
Vulcanizing press.
Press. A. A. Byerlein. 1,919,771; July 25.
Press. J. N. Villand. 1,919,815; July 25.
Pressure brake, Fluid. C. C. Farmer and E. E. Hewitt. 1,919,422; July 25.
Pressure brake, Fluid. T. H. Thomas. 1,919,401; July 25.
Printing and punching mechanism, Card. M. J. Hoffman. 1,919,219; July 25.
Printing machine. C. G. Krans. 1,919,954; July 25.
Printing press, Multicolor. L. W. Claybourn. 1,919,462; July 25.
Printing presses, Roll stand for. O. R. Wolf. 1,919,456; July 25.
Printing surface, Making. C. W. Bennett. 1,919,194; July 25.
Projection machine. F. H. Owens. 1,919,595; July 25.
Propeller. A. Y. Dodge. 1,919,586; July 25.
Propeller. R. P. Lansing. 1,920,086; July 25.
Propeller and flywheel. J. J. Novak. 1,919,961; July 25.
Propeller pitch regulator. J. W. Bace. 1,919,875; July 25.
Propeller wheel for fans. A. H. Olson. 1,919,250; July 25.
Propelling mechanism for airplanes. G. M. Bellanca. 1,919,682; July 25.

Protector: *See*—
Bedstead protector.
Protective apparatus. O. C. Traver. 1,919,969; July 25.
Protective system for electric circuits. J. Stoecklin. 1,919,914; July 25.
Puffing machine, Pneumatic. L. Wenczel. 1,919,674; July 25.
Pulverized fuel burner. E. H. Tenney. 1,920,117; July 25.
Pump: *See*—
Fuel pump. Radial pump.
Multiple diaphragm pump.
Pumping mechanism. H. T. Blom. 1,919,195; July 25.
Punch, Can. J. F. Cutler. 1,919,711; July 25.
Rack: *See*—
Knockdown display rack. Separable floral rack.
Lumber rack.
Radial pump. W. Ernst. 1,920,123; July 25.
Radiator, Sound. C. D. Haigis. 1,919,632; July 25.
Radio aerial attachment. E. V. Amy and F. King. 1,920,162; July 25.
Radio direction, locating observation, and the like. F. L. E. Jacquemin. 1,919,556; July 25.
Radiogoniometer. H. Antranikian. 1,920,150; July 25.
Radioreceiver, Stabilized. W. V. B. Roberts. 1,919,906; July 25.
Radio transmission and reception, Apparatus and method for. J. S. Stone. 1,919,309; July 25.
Rail, Foot. M. Booth. 1,919,583; July 25.
Railway track brake. J. W. Livingston. 1,919,956; July 25.
Razor case and used blade container, Combination safety. F. A. Sell. 1,919,381; July 25.
Razor, Safety. G. D. Marcy. 1,919,794; July 25.
Razor, Safety. E. S. Martin. 1,919,737; July 25.
Razor, Safety. J. Muros. 1,919,388; July 25.
Razor, Safety. R. G. Winkler. 1,919,759; July 25.
Reading device for a book. F. Giese. 1,919,835; July 25.
Reamer for cable terminals and the like, Flexible. A. Raphael. 1,919,745; July 25.
Receptacle: *See*—
Ash receptacle.
Receptacle for granular or pulverulent condiments for table use. C. R. Langton. 1,919,280; July 25.
Rectifier. E. Rupp. 1,919,988; July 25.
Rectifier. C. G. Smith. 1,919,263; July 25.
Rectifier, Copper oxide. D. Santini. 1,919,398; July 25.
Refrigerator door lock. A. L. Hansen. 1,919,328; July 25.
Refusing unit, Automatic. J. E. Sumpter. 1,919,453; July 25.
Regulating means. H. B. Morrill. 1,919,281; July 25.
Regulating system, Temperature. J. C. Hornung. 1,919,330; July 25.
Regulator: *See*—
Gas regulator.
Regulator control system. S. Miyamoto. 1,919,960; July 25.
Relay scheme, Unbalanced ratio. T. G. Le Clair and C. M. Gross. 1,919,231; July 25.
Relaying by current transformer and relays. T. G. Le Clair. 1,919,230; July 25.
Remote control apparatus. A. E. Weingartner and C. V. Koons. 1,919,758; July 25.
Rescue device for submarines. A. Genova. 1,919,834; July 25.
Resin and making the same, Synthetic. W. H. Moss. 1,920,100; July 25.
Retractable landing gear. R. J. Minshall. 1,919,524; July 25.
Reverse brake. C. A. Matson. 1,919,474; July 25.
Reverse gear, Marine. G. A. Wood. 1,919,760; July 25.
Rock drill. G. H. Fuehrer. 1,919,717; July 25.
Roller bit. R. Giesey. 1,919,505; July 25.
Roller bit. T. H. Stancliff. 1,920,164; July 25.
Rolling mill. J. R. Coe. 1,919,202; July 25.
Roof for tanks, Floatable. C. H. Haupt and A. J. Ely. 1,919,634; July 25.
Rose, Pink. F. Schramm. Pl. Pt. 72; July 25.
Rotary drier. C. O. Lavett. 1,919,229; July 25.
Rotary furnace. G. J. Hagan. 1,919,650; July 25.
Rouge applicator. G. A. Gleeson. 1,919,887; July 25.
Rubber and antioxidant agent, Age resisting vulcanized. H. A. Morton. 1,919,301; July 25.
Rubber composition and preserving rubber. P. C. Jones. 1,919,726; July 25.
Rubber composition and preserving rubber. W. L. Semon. 1,919,452; July 25.
Rubber surfaces, Protecting. C. L. Beal. 1,919,766; July 25.
Rubber to metal, Adhering. H. Gray. 1,919,718; July 25.
Rubber vulcanization mold. G. W. Crosby. 1,920,139; July 25.
Rug hook. J. P. Tibbutt. 1,919,813; July 25.
Sack or bag holder. E. R. Overmyer. 1,920,019; July 25.
Safety apparatus. O. A. McNamee. 1,919,445; July 25.
Safety device. J. C. Chambers. 1,920,001; July 25.
Safety device for hoisting engines. O. L. Berby. 1,919,997; July 25.
Safety device for overhead electric lines. M. E. Mathieu. 1,919,663; July 25.
Safety device for transformers and the like, Differential. K. Täuber. 1,920,037; July 25.
Saw. T. R. Roberts. 1,919,748; July 25.
Saw and making the same, Circular. J. P. Bem. 1,919,358; July 25.
Saw frame. G. J. Blum. 1,919,323; July 25.
Scraper, Dish. C. A. Schacht. 1,919,865; July 25.
Scraper, Road. E. L. Schermerhorn. 1,919,260; July 25.
Scraper, Wall-paper. M. Williadsen. 1,919,351; July 25.
Screen: *See*—
Photographic screen.
Screen for paper stock and the like. W. B. Clements and G. P. Burggraf. 1,919,201; July 25.
Screening apparatus. L. E. Soldan. 1,919,485; July 25.
Seal, Antipilferage. A. G. Schurman. 1,920,152; July 25.
Seal for rotatable members, Fluid. E. A. Murphy. 1,919,248; July 25.
Seat: *See*—
Spring heel seat.
Seat construction. A. P. Ball. 1,920,052; July 25.
Semitrailer and auxiliary support. A. W. Molinare. 1,919,447; July 25.
Separable floral rack. C. A. Bruning. 1,919,824; July 25.
Sewage apparatus. J. G. Albertson. 1,920,158; July 25.
Sewage filter beds, Cleaning. W. C. Laughlin and A. B. Asch. 1,919,564–5; July 25.
Sewing machine. A Bates. 1,919,410; July 25.
Sewing machine, Ornamental stitch. F. Luts. 1,919,852; July 25.
Sewing machines, Fan-attachment for. D. Fischbein. 1,919,782; July 25.
Sewing machines, Work guide for. C. E. Boyd. 1,919,459–60; July 25.
Shaft coupling. E. K. Le Fevre. 1,919,437; July 25.
Sharpener, Knife. E. W. Carpenter. 1,919,772; July 25.
Sharpening unit. S. Segal. 1,919,909; July 25.
Shears, Metal. H. D. Buys. 1,919,710; July 25.
Sheave construction. R. G. Le Tourneau. 1,919,472; July 25.
Sheet feeder. F. McCarthy. 1,919,238; July 25.
Sheet metal container. W. W. Maher. 1,919,237; July 25.
Sheet metal forms, Apparatus for forming. J. L. Auble. 1,919,287; July 25.
Shield, Expansion. T. J. Noonan. 1,919,901; July 25.
Shield for headlights, Antiglare. J. L. Kelly. 1,919,224; July 25.
Shield, Welder's. F. W. Bowers. 1,919,927; July 25.
Shock absorber. C. A. Bluhm. 1,920,055; July 25.
Shock absorber, Hydraulic. A. Moorhouse. 1,920,098; July 25.
Shoe. A. J. Brauer and F. P. Wagner. Des. 90,355; July 25.
Shoe. C. Miller. Des. 90,371–3; July 25.
Shoe. C. F. and F. A. Rohn. 1,919,862; July 25.
Shoe and lasting the same. J. S. Kamborian. 1,919,657; July 25.
Shoe bottom treating device. J. S. Kamborian. 1,920,083; July 25.
Shoe fastening. A. Love. 1,920,088; July 25.
Shoe lasting apparatus. J. S. Kamborian. 1,919,660; July 25.
Shoe or similar article. L. Kaminski. Des. 90,369; July 25.
Shoe sole. O. Brockman. Des. 90,356; July 25.
Shoes, lasting. J. S. Kamborian. 1,919,659; July 25.
Shoes, Manufacture of. J. S. Kamborian. 1,919,658; July 25.
Shrine. M. Green. Des. 90,366; July 25.
Signal: *See*—
Light signal.
Signal control apparatus. M. C. Armstrong. 1,919,409 July 25.
Signal control for demand meters. J. Hyslop. 1,919,514 July 25.
Signal light switch. E. L. White. 1,920,045; July 25
Signal mechanism for highway intersections. C. Adler, jr 1,919,874; July 25.
Signaling system for automotive vehicles. H. A. Douglas 1,919,206; July 25.
Signaling system, Multiple. C. W. Hough. 1,919,888 July 25.
Silent chain. W. F. Brandt. 1,919,768; July 25.
Silicon steel sheets, Producing low loss nonaging. W Morrill. 1,919,983; July 25.
Silk, Weighting natural. R. Clavel. 1,920,063; July 25
Slide fasteners, Making. G. H. C. Corner. 1,920,188 July 25.
Slider, Locking. R. C. Legat. 1,919,662; July 25.
Slider, Locking. R. D. Taylor. 1,919,966; July 25.
Sludge digestion tank. H. E. Elrod. 1,919,689; July 25
Slugs entering slot machines, Prevention of iron and steel G. Poulas. 1,919,478; July 25.
Smoking stand. W. F. Williamson. Des. 90,394; July 25.
Soil tests, Taking. R. H. Burke and A. J. Forschner. 1,919,461; July 25.
Solvent, Purifying dry cleaners'. R. G. Walker. 1,919,644; July 25.
Sorting apparatus. W. A. Trescott. 1,919,403; July 25.
Sound on film apparatus. C. H. Seaholm. 1,919,753; July 25.
Sound record. S. Whyte. 1,919,920; July 25.
Spectacle case. J. M. Shields. 1,919,262; July 25.
Spectacles. A. Kates. 1,919,731; July 25.
Speed indicating device. J. W. Simmons. 1,920,113; July 25.
Spool. G. H. Bird. 1,919,270; July 25.
Spoon or similar article. J. R. Price. Des. 90,380; July 25.
Spout for salt and like containers, Pouring. W. L. Rutkowski. 1,920,131; July 25.

Sprayer, Whirling. J. A. Brooks. 1,919,196; July 25.
Spraying device, Rotary. E. G. Muns. 1,919,244; July 25.
Spreading apparatus. A. I. Dean. 1,919,619; July 25.
Spring connection. R. R. Searles. 1,920,132; July 25.
Spring heel seat. W. S. Shaft. 1,920,112; July 25.
Spring shackle. J. R. Chamberlain. 1,920,000; July 25.
Sprinkler. E. G. Muns. 1,919,245; July 25.
Sprinkler head. A. Loepsinger. 1,919,235; July 25.
Sprinkler, Rotary. H. R. Muns. 1,919,243; July 25.
Sprinkler, Rotary. E. G. Muns. 1,919,246–7; July 25.
Square, Mechanic's. C. Griffin. 1,919,551; July 25.
Stabilizing device for aircraft. C. R. A. M. De Rouge. 1,919,831; July 25.
Stand: *See*—
Display stand.
Stamp and making the same, Rubber. A. W. Schmidt. 1,920,110; July 25.
Stamp construction, Rubber. F. L. Buck. 1,920,058; July 25.
Staple setting machine. H. E. Hicks. 1,919,944; July 25.
Stapling machine. E. Krantz. 1,919,373; July 25.
Starter and choke control, Combined. B. J. Wekenborg. 1,919,313; July 25.
Stone, Cutting blocks of. J. B. Newsom. 1,919,800; July 25.
Stop-cock with electric heater. H. Arber. 1,920,049; July 25.
Storage battery. J. E. Marsden. 1,919,341; July 25.
Stored pressure medium container. H. E. Helgis. 1,920,127; July 25.
Strawberry plant. E. C. Howard. Pl. Pt. 71; July 25.
Stretching machine. R. L. Griffin and J. T. O'Neil. 1,919,649; July 25.
Striker plate. C. Minzenmayer. 1,919,739; July 25.
String bean cutter. L. R. H. Burton and V. E. Cook. 1,919,770; July 25.
Structural material, Laminated rigid. R. John. 1,920,081; July 25.
Sulphate of ammonia, Production of. W. G. Adam and D. G. Murdoch. 1,919,707; July 25.
Sulphur, Method and apparatus for volatilizing. G. Rupprecht. 1,919,307; July 25.
Sulphur, Production of. H. F. Merriam. 1,919,342; July 25.
Support: *See*—
Collar support.
Semitrailer and auxiliary support.
Supporter, Stocking. N. D. Levin. 1,919,299; July 25.
Surfacing machine, Planetary type. H. L. Myers. 1,919,389; July 25.
Surveying device, Bore-hole. P. Jones. 1,919,332; July 25.
Swimming machine. E. E. Stoner. 1,920,036; July 25.
Switch: *See*—
Electric switch. Signal light switch.
Interlocking switch. Thermostatic switch.
Switch. J. W. Fitz Gerald. 1,919,278; July 25.
Switch. E. Sinner. 1,919,345; July 25.
Switch controlling mechanism. J. W. Allen. 1,920,135; July 25.
Switching device, Automatic. J. N. Pegin. 1,919,378; July 25.
Switching mechanism, Automotive vehicle. H. A. Douglas. 1,919,207; July 25.
Switching mechanism for automotive vehicles. H. A. Douglas. 1,919,208–9; July 25.
Synchronizing system. C. E. Huffman. 1,920,015; July 25.
Synchronous motor. O. F. Rowe. 1,919,395; July 25.
Table: *See*—
Folding table. Urological table.
Pipe table.
Tank and cleaning machine therefor, Sewage clarification. W. C. Laughlin and A. B. Asch. 1,919,566; July 25.
Tank for corn pickers. A. C. Lindgren, C. R. Raney, and R. B. Hitchcock. 1,919,339; July 25.
Tanning, Process of. I. C. Somerville and H. R. Raterink. 1,919,756; July 25.
Tar at a coal distillation plant and apparatus therefor, Distillation of. F. Osborne. 1,919,704; July 25.
Tar, Distillation of. S. P. Miller. 1,919,241; July 25.
Tar, Distillation of. S. P. Miller. 1,920,163; July 25.
Tar, etc., Distillation of. S. P. Miller. 1,920,097; July 25.
Tank: *See*—
Sludge digestion tank.
Teeth, Saw. V. A. Albright. 1,919,352; July 25.
Telegraph receiving apparatus having case grouping of characters, Printing. R. G. Griffith. 1,919,885; July 25.
Telegraph system. A. E. Thompson. 1,919,607; July 25.
Telephone instrument circuit. E. R. Wigan. 1,919,314; July 25.
Telephone pay station receptacle. J. M. Melick. 1,919,799; July 25.
Telephone system. J. A. Burgéner. 1,919,317; July 25.
Telephone system. T. A. Lundell and T. Laurent. 1,920,089; July 25.
Television and picture transmitting apparatus. G. Wikkenhauser. 1,920,119; July 25.
Tempering bath. H. C. Knerr. 1,919,846; July 25.
Terminal, Fluid filled high tension. E. D. Eby. 1,919,935; July 25.
Testing machine. C. B. Thwing. 1,920,039; July 25.
Textile fabric. M. Christen. Des. 90,359; July 25.
Textile fabric. W. Speck. Des. 90,390; July 25.
Textile fabric. M. Susi. Des. 90,392; July 25.
Thermometer case. H. E. Stonebraker. 1,919,811; July 25.
Thermometer, Clinical. L. E. Greiner. 1,919,630; July 25.
Thermostat. H. A. Mantz. 1,919,473; July 25.
Thermostat. S. P. Vaughn. 1,919,265; July 25.
Thermostatic switch. B. E. Getchell. 1,919,327; July 25.
Threader, Curtain. R. W. Winberg. 1,920,046; July 25.
Thresher and windrow pick-up, Combination. W. F. MacGregor. 1,919,896; July 25.
Thunderstorm or electric field and potential indicator. R. Gunn. 1,919,215; July 25.
Tie, Form. J. M. Willard. 1,919,645; July 25.
Tie rod end. E. R. Maurer. 1,919,797; July 25.
Tile cleaning apparatus. E. Fryslie. 1,919,549; July 25.
Tile fabricating machinery. A. C. Myers. 1,919,640; July 25.
Tile machinery. A. C. Myers. 1,919,639; July 25.
Timing device, Automatic. W. E. Porter. 1,919,255–6; July 25.
Timing mechanism. R. L. Chenault. 1,920,003; July 25.
Tire and rim construction, Pneumatic. A. H. Shoemaker. 1,919 910; July 25.
Tire and rim construction, Pneumatic. A. H. Shoemaker. 1,919,911; July 25.
Tire-building apparatus. F. Slusher. 1,919,384; July 25.
Titaniferous materials in acids, Dissolving. F. Farup. 1,919,425; July 25.
Toaster, Electric bread. E. S. Johnson. 1,919,559; July 25.
Toilet flushing apparatus. S. P. Enright. 1,919,779; July 25.
Tool: *See*—
Cutting tool. Weil tool.
Tong. O. V. Jones. 1,919,468; July 25.
Top for fruit and vegetable boxes or crates. P. G. Pierpont. 1,919,391; July 25.
Torch, Cutting. J. L. Anderson. 1,919,764; July 25.
Tow line. S. Reichert. 1,920,106; July 25.
Toy windmill. L. Cherneff. Des. 90,358; July 25.
Track frame structure. D. B. Baker, C. R. Rogers, and N. O. Panzegrau. 1,919,315; July 25.
Traffic controlling apparatus, Railway. R. R. Kemmerer. 1,919,279; July 25.
Traffic controlling apparatus, Railway. L. E. Spray. 1,919,810; July 25.
Train pipe coupling. A. K. Kusebauch. 1,919,435; July 25.
Translating device. F. Rieber. 1,919,480; July 25.
Transmission control mechanism. H. T. Thomas, V. E. Furgason, and A. B. Hays. 1,920,038; July 25.
Transmission gear. V. Wassilieff and A. De Witt. 1,919,870; July 25.
Transmission of sound and images. F. M. Ryan. 1,919,804; July 25.
Transmission system for sound carrying currents. D. B. Harris and O. W. Knauss. 1,919,719; July 25.
Trap: *See*—
Insect trap.
Trap. W. L. Orr. 1,919,527; July 25.
Tray, Ash. E. B. Arthur and F. G. Leslie. 1,920,136; July 25.
Tread, Stair. L. Galtieri. 1,919,629; July 25.
Tree, Pecan. J. A. Simpson. Pl. Pt. 73; July 25.
Trimmer, Grass. H. R. Palmer. 1,919,377; July 25.
Trimmer or clipper, Hedge. H. Koch. 1,919,516; July 25.
Tripod head or the like. A. S. Howell. 1,919,554; July 25.
Trophy plaque. T. P. Eichelsdoerfer. Des. 90,363; July 25.
Truck, Hand. A. W. Parsons. 1,919,903; July 25.
Truing a grinding wheel, Method of and apparatus for. S. W. Bath. 1,919,288; July 25.
Truss. W. H. Wilson. 1,919,405; July 25.
Tube manufacture. C. W. Littler. 1,919,637; July 25.
Tubes, Method and apparatus for testing internal diameter of. H. W. Fletcher. 1,919,546; July 25.
Turbine, Reversible pump. L. F. Moody. 1,919,376; July 25.
2-oxymethyl carboxylic-benzimidazole-arsonic acids and preparing them. K. Streitwolf, A. Fehrle, and W. Herrmann. 1,919,579; July 25.
Typewriter attachment. F. M. Sperling. 1,919,399; July 25.
Typhoonoscope and barometer, Combined. A. Anareta. 1,920,048; July 25.
Ultra-violet ray transmitting material. C. P. Stewart. 1,919,643; July 25.
Umbrella, Pocket. E. Wery. 1,919,610; July 25.
Urological table. M. Schmidt and E. Neubacher. 1,919,908; July 25.
Vacuum cleaners, Attachment for. D. H. Chason. 1,920,002; July 25.
Vacuum tubes, Method and arrangement for diminishing noise in. W. Schaffer. 1,919,508; July 25.

Valve: *See*—
Automatic valve. Fuel valve.
Drain valve. Mixing valve.
Valve. H. B. Lee. 1,919,232–3; July 25.
Valve. C. M. Stewart. 1,919,602; July 25.
Valve and cock. J. A. McGeorge. 1,919,856; July 25.
Valve converting apparatus, Electric. A. S. Fitz Gerald. 1,919,633; July 25.
Valve device, Double check. E. E. Hewitt. 1,919,430; July 25.
Valve device, Snap-acting. C. C. Farmer. 1,919,421; July 25.
Valve for animal feeders. E. D. Einsel and N. C. Nelson. 1,919,587; July 25.
Valve for retaining valves, Control. E. E. Hewitt. 1,919,431; July 25.
Valve mechanism. L. J. Berkeley. 1,919,973; July 25.
Vapor generating unit. H. J. Kerr and H. E. Melton. 1,919,335; July 25.
Variable speed alternating current motor. A. B. Chew. 1,919,774; July 25.
Vault, Burial. G. E. Nagel. 1,920,101; July 25.
Vegetable and orchard heater. E. B. Wood. 1,919,407; July 25.
Vehicle body for transporting mixed concrete. A. E. Miller. 1,920,149; July 25.
Vehicle spring suspension. D. C. Roos. 1,919,670; July 25.
Vehicle wheel. H. C. Bullard. 1,919,683; July 25.
Ventilator: *See*—
Cowl ventilator.
Vibrating element, Mechanical. W. A. Marrison. 1,919,796; July 25.
Viscosity gauge, Continuous indicating. L. R. Anderson and H. E. Pengilly. 1,919,921; July 25.
Vitamin preparations containing lipoid soluble vitamins. W. Kropp, F. Lange, and A. Bohne. 1,919,297; July 25.
Vulcanising press. H. Walther. 1,920,157; July 25.
Waffle extractor. H. Keiser. 1,919,469; July 25.
Waffle iron assembly. A. W. Knapp. 1,919,560; July 25.
Wall spacer for concrete forms. R. L. Frist. 1,920,070; July 25.
Washing cams and the like, Apparatus for. B. E. Taylor. 1,919,965; July 25.
Water closet. O. Lundberg. 1,919,700; July 25.
Water heater. J. C. Glenn. 1,919,506; July 25.
Water-tube steam boiler. E. J. Franklin. Re18,901; July 25.
Watering or spraying gardens or the like, Apparatus for. V. Nielsen. 1,919,703; July 25.
Waving hair, Permanently. R. L. Evans. 1,919,690; July 25.
Waxing device. H. L. Endly. 1,920,069; July 25.
Wedge for form ties. T. C. Schenk. 1,919,751; July 25.
Weft replenishing mechanism. A. D. Gargolinski. 1,919,295; July 25.
Welding apparatus. J. T. H. Dempster. 1,919,978; July 25.
Well drilling apparatus. L. P. Kinnear. 1,919,845; July 25.
Well head controller. H. Van Hooydonk. 1,920,040; July 25.
Well tool. H. C. Otis. 1,920,103; July 25.
Wells, Drilling. L. P. Kinnear. 1,919,844; July 25.
Wheel: *See*—
Vehicle wheel.
Wheel. C. J. Blakeslee. 1,919,924–5; July 25.
Wheel. C. H. White. 1,919,539; July 25.
Winding machine for stator cores, Edgewise. H. E. Carlson. 1,920,154; July 25.
Window. J. G. Dudley. 1,919,418; July 25.
Window construction. G. H. Britain. 1,919,359; July 25.
Window operating means, Auto. W. F. Shetzline. 1,919,671; July 25.
Window structure. W. J. Klemm. 1,919,371; July 25.
Windshield cleaner. L. Lunsford. 1,919,236; July 25.
Wing, Pivotally supported wind. A. P. Robinson. 1,919,749; July 25.
Wiper arm and mounting therefor. H. Hueber. 1,920,145; July 25.
Wiper mechanism for windshields and the like. J. Bornstein. 1,919,411; July 25.
Wire and making same, Paper machine. C. Johnson. 1,919,843; July 25.
Wire cutting and twisting device. R. W. Briggs and F. Cole. 1,920,056; July 25.
Wire, Device and method for tightening. J. E. Scheuerlein. 1,919,867; July 25.
Worktable. I. F. Webb. 1,919,609; July 25.
Wrench: *See*—
Chain pipe wrench. Jar cap wrench.
Yarn with even shrinkage, Untwisted direct process. O. Oppenlaender and R. Elsaner. 1,919,526; July 25.
Yeast product and making the same. M. Block and O. Freund. 1,919,612; July 25.

CLASSIFICATION OF PATENTS

ISSUE OF JULY 25, 1933

Note.—First number=class, second number=subclass, third number=patent number.

170— 163: 1,919,875
177: 1,919,961
1,920,086
171— 34: 1,919,213
1,919,214
1,919,514
95: 1,919,215
1,919,504
97: 1,920,150
119: 1,919,905
313: 1,919,801
1,919,902
1,920,096
314: 1,919,808
1,919,814
327: 1,919,796
172— 36: 1,919,522
1,919,557
179: 1,919,913
238: 1,919,960
239: 1,919,969
240: 1,919,525
274: 1,919,774
278: 1,919,205
173— 250: 1,919,952
1,919,953
353: 1,919,935
356: 1,920,011
174— 89: 1,919,543
177: 1,919,643
175— 21: 1,919,906
115: 1,920,115
182: 1,919,917
183: 1,919,284
1,919,538
1,919,902
294: 1,919,230
1,919,231
1,919,466
1,919,895
1,919,914
1,919,969
1,919,980
1,920,087
355: 1,919,906
363: 1,919,800
1,919,977
364: 1,919,533
366: 1,919,308
1,919,988
368: 1,919,808
176— 122: 1,919,490
1,919,932
1,919,933
177— 329: 1,919,874
337: 1,919,206
351: 1,919,992
352: 1,919,441
1,919,480
354: 1,919,409
367: 1,920,153
178— 33: 1,919,885
42: 1,919,807
44: 1,919,945
1,920,041
69. 5: 1,920,015
1,920,119
179— 2: 1,919,719
2. 5: 1,919,888
16: 1,920,080
27: 1,919,317
81: 1,919,314
100. 3: 1,919,753
115. 5: 1,919,532
171: 1,919,906
180— 1: R. 18,904
54: 1,919,227
69: 1,919,656
180— 75: 1,919,924
1,919,925
183— 2. 5: 1,920,086
184— 3: 1,919,451
13: 1,920,134
104: 1,920,012
106: 1,919,344
187— 2: 1,919,818
188— 2: 1,919,343
52: 1,919,956
71: 1,919,340
77: 1,919,780
78: 1,919,519
1,919,542
1,919,882
82: 1,919,997
89: 1,920,098
140: 1,920,078
216: 1,919,187
234: 1,919,967
1,920,010
250: 1,919,533
1,919,550
1,919,974
189— 34: 1,919,716
36: 1,919,353
1,920,130
37: 1,919,405
46: 1,919,392
1,919,393
1,919,419
1,919,685
65: 1,919,350
90: 1,919,371
1,919,418
75: 1,919,367
192— .01: 1,919,930
4: 1,919,474
13: 1,919,754
28: 1,919,651
52: 1,919,523
56: 1,919,437
1,920,017
107: 1,919,998
129: 1,919,445
193— 37: 1,919,495
194— 1: 1,919,581
101: 1,919,478
195— 20: 1,919,675
1,919,676
196— 1: 1,919,672
4: 1,919,571
8: 1,919,504
15: 1,919,644
16: 1,919,655
17: 1,920,125
53: 1,919,857
1,920,140
76: 1,919,241
94: 1,919,691
107: 1,919,320
151: 1,919,669
1,920,161
197— 126: 1,919,855
198— 10: 1,919,217
33: 1,919,186
64: 1,919,972
118: 1,919,302
127: 1,919,537
156: 1,919,934
219: 1,919,199
200— 4: 1,919,208
5: 1,919,209
8: 1,919,949
11: 1,919,345
16: 1,919,207
52: 1,919,446
53: 1,919,406
54: 1,919,210
200— 39: 1,920,045
67: 1,919,990
68: 1,919,278
79: 1,919,663
84: 1,919,385
87: 1,920,135
97: 1,919,979
1,919,991
113: 1,920,029
1,920,030
1,920,031
1,920,033
1,920,094
126: 1,919,453
131: 1,919,273
1,919,274
138: 1,919,327
144: 1,919,438
1,919,987
153: 1,920,032
201— 48: 1,919,614
67: 1,919,816
202— 9: 1,919,253
30: 1,919,240
1,919,704
1,920,163
40: 1,919,599
56: 1,919,752
64: 1,920,097
256: 1,919,955
204— 19: 1,919,379
206— 6: 1,919,262
8: 1,919,562
16. 5: 1,919,811
16: 1,919,381
44: 1,919,879
1,919,880
232— 44: 1,919,798
734— 5. 3: 1,919,332
235— 51: 1,920,085
59: 1,919,919
61: 1,920,094
70: 1,919,383
83: 1,919,222
94: 1,919,436
96: 1,919,493
144: 1,919,511
236— 1: 1,919,330
15: 1,919,473
48: 4,919,205
85: 1,919,291
87: 1,919,337
93: 1,919,631
237— 79: 1,919,655
240— 8. 4: 1,919,276
48. 4: 1,919,224
241— 1: 1,919,299
8: 1,920,061
242— 10: 1,919,928
1,919,994
55. 5: 1,920,074
64: 1,919,456
65: 1,919,518
68: 1,919,769
124: 1,919,270
156: 1,920,111
214— 1: 1,919,191
2: 1,919,520
1,919,524
12: 1,919,620
26: 1,919,662
29: 1,919,531
245— 2: 1,919,673
246— 3: 1,919,279
135: 1,919,810
160: 1,919,693
231: 1,919,272
247— 1: 1,919,986
14: 1,919,457
200— 39: 1,920,045
67: 1,919,990
68: 1,919,278
79: 1,919,663
84: 1,919,385
87: 1,920,135
97: 1,919,979
1,919,991
113: 1,920,029
1,920,030
1,920,031
1,920,033
1,920,094
126: 1,919,453
131: 1,919,273
1,919,274
138: 1,919,327
144: 1,919,438
1,919,987
153: 1,920,032
201— 48: 1,919,614
67: 1,919,816
202— 9: 1,919,253
30: 1,919,240
1,919,704
1,920,163
40: 1,919,599
56: 1,919,752
64: 1,920,097
256: 1,919,955
204— 19: 1,919,379
206— 6: 1,919,262
8: 1,919,562
16. 5: 1,919,811
16: 1,919,381
44: 1,919,879
1,919,880
232— 44: 1,919,798
734— 5. 3: 1,919,332
235— 51: 1,920,085
59: 1,919,919
61: 1,920,094
70: 1,919,383
83: 1,919,222
94: 1,919,436
96: 1,919,493
144: 1,919,511
236— 1: 1,919,330
15: 1,919,473
48: 4,919,205
85: 1,919,291
87: 1,919,337
93: 1,919,631
237— 79: 1,919,655
240— 8. 4: 1,919,276
48. 4: 1,919,224
241— 1: 1,919,299
8: 1,920,061
242— 10: 1,919,928
1,919,994
55. 5: 1,920,074
64: 1,919,456
65: 1,919,518
68: 1,919,769
124: 1,919,270
156: 1,920,111
214— 1: 1,919,191
2: 1,919,520
1,919,524
12: 1,919,620
26: 1,919,662
29: 1,919,531
245— 2: 1,919,673
246— 3: 1,919,279
135: 1,919,810
160: 1,919,693
231: 1,919,272
247— 1: 1,919,986
14: 1,919,457
219— 19: 1,919,975
34: 1,919,558
38: 1,919,204
1,920,013
39: 1,920,040
43: 1,919,950
220— 24: 1,920,152
25: 1,919,212
26: 1,919,634
39: 1,919,597
40: 1,919,180
42: 1,919,237
55: 1,919,501
1,919,695
60: 1,919,432
1,919,574
63: 1,919,306
221— 11: 1,920,131
60: 1,919,712
94: 1,919,257
98: 1,919,582
101: 1,919,828
223— 38: 1,920,046
224— 29: 1,919,271
225— 5. 6: 1,919,569
21: 1,920,016
226— 17: 1,919,414
59: 1,919,370
115: 1,919,665
227— 42: 1,920,047
229— 37: 1,919,789
34: 1,919,912
65: 1,919,819
230— 24: 1,919,195
79: 1,919,252
108: 1,919,847
247: 1,919,782
247— 25: 1,919,319
248— 14. 2: 1,919,484
20: 1,919,767
41: 1,919,838
47: 1,919,554
250— 9: 1,919,730
1,919,804
10: 1,919,300
11: 1,919,556
1,920,159
27: 1,919,508
27. 5: 1,919,203
1,919,899
33: 1,920,156
1,920,162
36: 1,919,251
1,919,795
1,919,976
1,919,993
251— 27: 1,919,233
80: 1,919,856
90: 1,919,973
162: 1,919,232
163: 1,919,602
252— 5: 1,919,626
253— 148: 1,919,376
254— 93: 1,920,094
123: 1,920,070
192: 1,919,472
255— 1: 1,919,461
1,919,844
19: 1,919,611
28: 1,919,510
1,919,931
61: 1,919,553
71: 1,919,505
1,920,164
75: 1,919,845
257— 9: 1,919,781
33: 1,919,180
183: 1,919,606
230: 1,919,192
241: 1,920,089
246: 1,920,122
259— 1: 1,919,572
260— 3: 1,920,100
10: 1,919,329
11: 1,919,742
14: 1 919,579
19: 1,919,773
42: 1,919,417
54: 1,919,577
1,919,878
60: 1,919,563
66: 1,919,572
89: 1,919,560
95: 1,919,589
96: 1,919,833
98: 1,919,617
100: 1,919,592
112: 1,920,137
118: 1,919,851
122: 1,919,850
124: 1,919,889
130. 5: 1,919,580
146: 1,919,962
166: 1,919,618
168: 1,919,886
170: 1,919,722
261— 12: 1,919,197
29: 1,919,777
46: 1,919,470
262— 1: 1,919,538
1,919,636
263— 6: 1,920,133
7: 1,919,650
10: 1,919,412
264— 4: 1,919,449
265— 11: 1,919,921
265— 17: 1,920,039
47: 1,919,929
266— 4: 1,919,821
267— 1: 1,919,771
54: 1,920,000
1,920,132
60: 1,920,055
268— 50: 1,919,443
126: 1,919,671
271— 27: 1,920,001
41: 1,919,226
52: 1,919,226
272— 44: 1,919,467
69: 1,919,827
273— 1: 1,919,494
11: 1,919,296
80: 1,919,357
81: 1,919,221
96: 1,919,706
274— 1: 1,919,378
275— 8: 1,919,619
277— 20: 1,919,234
1,919,430
279— 55: 1,920,085
280— 33. 1: 1,919,447
33. 14: 1,920,108
33. 16: 1,919,915
64: 1,919,908
124: 1,919,670
281— 36: 1,919,827
285— 58: 1,919,435
77: 1,919,860
161: 1,919,654
193: 1,919,724
287— 90: 1,919,797
290— 38: 1,919,817
292— 218: 1,919,328
340: 1,919,730
294— 7: 1,919,469
296— 35: 1,919,360
44: 1,919,749
47: 1,919,357
98: 1,919,744
110: 1,919,603
297— 1: 1,920,043
299— 11: 1,919,325
299— 50: 1,919,708
61: 1,919,196
1,919,243
1,919,244
1,919,245
1,919,247
67: 1,919,246
73: 1,919,365
107. 4: 1,919,904
301— 13: 1,919,499
52: 1,919,539
303— 21: 1,919,424
23: 1,919,422
41: 1,919,421
46: 1,919,401
59: 1,919,444
60: 1,919,404
63: 1,919,442
64: 1,919,423
77: 1,919,431
305— 19: 1,919,471
308— 13: 1,919,315
15: 1,919,489
126: 1,919,741
187: 1,919,248
288: 1,919,375
309— 5: 1,920,114
312— 43: 1,919,606
63: 1,919,667
83: 1,919,535

U. S. GOVERNMENT PRINTING OFFICE: 1933

Patents Nos. 1,916,188 to 1,917,213

CARNEGIE LIBRARY OF ATLANTA

THE OFFICIAL GAZETTE OF THE United States Patent Office

Vol. 432—No. 1 TUESDAY, JULY 4, 1933 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index; $18.25; single numbers, 35 cents each.
PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.
CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
Issue of July 4, 1933	1
Disclaimer	1
Adjudicated Patents	1
Adverse Decisions in Interference	1
Notice of Cancellation	1
Applications Under Examination	2
Decisions of the U. S. Courts—	
Knaus and Adler v. Anderson and Anderson v. Knaus and Adler	3
Lawder v. Katzman	4
In re Wagner	8
Patent Suits	9
Trade-Marks Published (216 Applications)	11
Trade-Mark Registrations Granted	38
Trade-Mark Registrations Renewed	43
Labels	44
Prints	45
Reissues	47
Designs	48
Patents Granted	50

July 4, 1933

Trade-Marks	98—No.	304,342 to No.	304,439, inclusive.
T. M. Renewals	30		
Labels	18—No.	42,347 to No.	42,364, inclusive.
Prints	8—No.	14,250 to No.	14,257, inclusive.
Reissues	5—No.	18,885 to No.	18,889, inclusive.
Designs	54—No.	90,222 to No.	90,275, inclusive.
Patents	1,926—No.	1,916,188 to No.	1,917,213, inclusive.
Total	1,239		

Disclaimer

T. M. 125,655.—*Ideal Marketeria Company*, Lockport, N. Y. Trade-Mark "IM-CO" for CERTAIN NAMED FOODS. Registered June 3, 1919. Disclaimer filed May 26, 1933, by the registrant *Ideal Marketeria Company*.

Registrant expressly disclaims ownership or use of this trade-mark on wheat flour.

Adjudicated Patents

(D. C. Conn.) Klein patent, No. 1,240,459, for electric switch, claims 1, 2, 4, 5, and 6 *Held* invalid. *Cutler-Hammer, Inc.* v. *Carling Tool & Machine Co.*, 3 F. Supp. 150.

(C. C. A. Fla.) Kessler patent, No. 1,336,237, for engine valve attachment, claims 1 and 2 *Held* invalid. *Kessler* v. *Buick Motor Co.*, 64 F.(2d) 599.

(D. C. Conn.) Meuer patent, No. 1,651,085, for electric switch, claim 1 *Held* invalid. *Cutler-Hammer, Inc.* v. *Carling Tool & Machine Co.*, 3 F. Supp. 150.

(D. C. Pa.) Steckel patent, No. 1,779,195, for method and apparatus for rolling thin sheet-line material, *Held* valid but not infringed. *Cold Metal Process Co.* v. *United Engineering & Foundry Co.*, 3 F. Supp. 120.

(D. C. Conn.) Meuer patent, No. 1,783,665, for electric switch, claims 2, 3, and 22 *Held* invalid. *Cutler-Hammer, Inc.* v. *Carling Tool & Machine Co.*, 3 F. Supp. 150.

(C. C. A. Ohio) McMillan reissue patent, No. 16,736, for clamp for concrete-column forms, *Held* invalid. *H. W. Roos Co.* v. *McMillan*, 64 F.(2d) 568.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,790,898, T. W. Case, Method and apparatus for transmitting pictures, decided May 19, 1933, claim 2.

Pat. 1,824,737, Johnson and Johnson, Outboard motor assembly, decided June 8, 1933, claims 1 and 6.

Pat. 1,824,740, Johnson and Johnson, Water propulsion device, decided June 8, 1933, claim 12.

Pat. 1,839,217, E. H. Greibach, Photo electric system, decided May 19, 1933, claims 1, 2, 8, 14, and 15.

Pat. 1,855,837, King and Shotwell, Sound emitting device, decided June 7, 1933, claims 1, 2, 3, 4, 5, and 6.

Pat. 1,875,018, M. H. Kliefoth, Fibrous product and method of making the same, decided June 9, 1933, claims 5, 7, 13, and 15.

Pat. 1,876,158, L. W. Winter, Landing and beaching gears for aircraft, decided June 8, 1933, claims 1, 2, 3, 4, 5, 8, 11, and 12.

Pat. 1,896,924, C. A. Ulrich, Table for saws or the like, decided June 6, 1933, claims 1, 2, 20, 22, 24, and 25.

Notice of Cancellation

U. S. PATENT OFFICE, *Washington, June 13, 1933.*

George G. Waldron, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Chanel, Inc., 35 West 34th St., New York, N. Y., to effect the cancellation of the trade-mark registration of George G. Waldron, 117 West 116th St., New York, N. Y., No. 158,137, dated August 22, 1922, and the notice of such proceeding sent by registered mail to the said Waldron at the said address having been returned by the post-office as undeliverable, notice is hereby given that unless said Waldron, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business June 17, 1933

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 49,259; Trade-Mark Division, 1,059. Oldest new case, Feb. 17, 1933; oldest amended, Feb. 17, 1933.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6824	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Handling Implements	Feb. 17	Feb. 17	600
6708	2. HERRMANN, D. (Act.), Fishing and Trapping; Dairy; Animal Husbandry; Presses; Tobacco; Velocipedes.	Feb. 23	Feb. 25	844
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Mar. 18	Mar. 21	614
7083	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Mar. 6	Mar. 6	564
3626	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Mar. 16	Mar. 25	477
4936C	6. LEWERS, A. M., Carbon Chemistry	Mar. 1	Mar. 1	1,086
5726	7. JARBOE, C. G., Optics; Photography	Feb. 27	Feb. 27	1,047
7514	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Apr. 17	Apr. 17	484
4694	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Mar. 23	Mar. 27	631
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Mar. 28	Mar. 27	486
6057B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Feb. 20	Feb. 20	726
7701	12. HENRY, C. C., Machine Elements	Mar. 6	Mar. 6	599
6696	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Mar. 17	Mar. 17	735
6697	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	Mar. 21	Mar. 24	498
4897	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Mar. 1	Mar. 1	1,186
5612	16. SPENCER, C. J., Telegraphy; Telephony	Mar. 19	Mar. 19	507
6701	17. ARMSTRONG, H. (Act.), Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 18	Feb. 18	1,011
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Apr. 21	Apr. 18	261
4096	19. KENNEDY, A. R., Furnaces and Stoves; Heating Systems; Fuel Burners	Feb. 18	Feb. 18	1,055
6613	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	Apr. 26	Apr. 28	278
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Feb. 18	Feb. 18	900
5724	22. RINGLE, D. (Act.), Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Feb. 27	Feb. 27	1,006
7892	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Feb. 21	Feb. 18	581
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Apr. 20	Apr. 20	470
5709	25. BLAKELY, C. F., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Feb. 20	Feb. 21	1,024
5803	26. ADAMS, W. M. (Act.), Electricity, Generation; Motive Power	Mar. 30	Mar. 31	470
5708	27. CLARK, W. N. (Act.), Brushing, Scrubbing, and Cleaning; Washing Apparatus	Mar. 18	Mar. 20	465
4626	28. BENSON, A. R., Internal-Combustion Engines	Feb. 17	Feb. 18	760
5082	29. MORRIS, B. N., Woodworking; Tools; Compound Tools; Furniture; Metal Working, Assembling	Mar. 16	Mar. 18	350
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	Mar. 18	Mar. 14	627
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Feb. 21	Feb. 21	1,228
4096	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Mar. 20	Mar. 24	527
6096	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Feb. 18	Feb. 21	1,203
6625	34. SAPERSTEIN, S. (Act.), Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders.	Feb. 17	Feb. 17	959
3600	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Feb. 24	Feb. 17	792
7634	36. McFAYDEN, A. D. (Act.), Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Feb. 17	Feb. 17	1,264
5889	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Mar. 18	Mar. 18	556
7510	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Feb. 20	Feb. 20	729
4874	39. WHITNEY, F. J. (Act.), Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Mar. 2	Mar. 6	795
7880	40. OBERLIN, J. J., Receptacles	Mar. 2	Mar. 3	1,335
6052	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices.	Mar. 9	Mar. 9	620
5883	42. CUTTING, H. O., Electric Signaling	Feb. 17	Feb. 17	907
4084B	43. KLINGE, E. F., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Feb. 28	Feb. 28	962
4067B	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Feb. 20	Feb. 17	806
7097	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	Apr. 17	Apr. 24	340
6613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers	Mar. 2	Mar. 2	604
7600	47. BARKER, H., Clutches and Power Stops; Brakes; Motors	Feb. 28	Feb. 27	1,130
5731	48. ROEPKE, O. B., Electricity, General Applications	Mar. 1	Feb. 18	643
7726	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Feb. 17	Feb. 17	886
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Feb. 17	Feb. 17	946
5628	51. BACKUS, C. D., Radiant Energy	Mar. 21	Mar. 21	774
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Apr. 1	Apr. 8	469
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Apr. 17	Apr. 17	507
5874	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light-Sensitive Circuits.	Feb. 21	Feb. 21	821
6887	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery	Mar. 28	Mar. 28	310
	{Designs	May 10	May 31	270
4726	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Feb. 27	Feb. 17	934
3626	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Mar. 17	Mar. 21	415
5605	58. DOWELL, E. F., Abrading; Typewriting	Mar. 18	Mar. 18	394
4709	59. RICHARD, V. I., Chemistry; Alcohol; Fertilisers; Cement and Lime; Hides, Skins, and Leather; Fuel.	Mar. 7	Mar. 7	625
5899	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Feb. 20	Feb. 21	964
6724	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Horology; Time-Controlling Apparatus.	Feb. 23	Feb. 20	609
7525	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles.	Mar. 14	Mar. 14	1,221
4886	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Feb. 20	Feb. 20	1,084
4706	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue	Mar. 1	Mar. 1	1,067
5884	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Feb. 17	Feb. 17	1,108
2099B	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND.—{Trade-Marks	May 17	June 3	878
	{Labels and Prints	May 19	June 5	181

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

KNAUSS AND ADLER *v.* ANDERSON AND ANDERSON *v.* KNAUSS AND ADLER

Nos. 3,673 and 3,673. Decided March 6, 1933

INTERFERENCE—PRIORITY—RIGHT TO MAKE THE CLAIMS.

Record reviewed and *Held* to establish that A., the senior party, is entitled to make count 1 of the interference but that he is not entitled to make count 2 and as K. and A., the junior party, filed no preliminary statement, priority was properly awarded to A. as to count 1 and to K. and A. as to count 2.

APPEAL from the Patent Office. Affirmed.

Messrs. Watson, Coit, Morse & Grindle and *Mr. Charles S. Grindle* for Knauss and Adler.

Messrs. Dike, Calver & Gray, Mr. Henry Calver and *Mr. Elmer J. Gray* for Anderson.

GARRETT, *J.*:

In these consolidated causes there are involved appeals to this court by the respective parties from decisions of the Board of Appeals of the United States Patent Office.

A consolidated record was made up and the cases were briefed together. They may properly be disposed of in a single opinion.

The claimed invention relates generally to governors for internal combustion engines, the specific features of which appear in the two counts at issue, as follows:

1. A governor for internal combustion engines including an unbalanced governing valve, and vacuum responsive means for moving said governing valve toward its closed position.

2. A governor for internal combustion engines including a governing valve, vacuum responsive means for moving said governing valve towards its closed position, a spring opposing the movement of said vacuum responsive means, and means for causing said spring to be deflected at a continuously increasing rate as compared with the movement of said vacuum responsive means.

Anderson was granted a patent, No. 1,662,098, March 13, 1928, on an application filed March 26, 1921. Knauss and Adler were granted patent, No 1,670,365, May 22, 1928, on an application filed September 1, 1926. Following the grant to Knauss and Adler, Anderson, on March 7, 1930, filed an application for reissue of Patent 1,662,098, in which reissue application he copied three of the claims of the Knauss and Adler patent for the purpose of bringing about an interference which was duly declared.

Knauss and Adler filed no preliminary statement but moved to dissolve the interference on the ground that Anderson had no right to make the counts.

The Examiner of Interferences granted the motion as to count 3, but denied it as to counts 1 and 2, supra, and judgment upon the record was entered awarding priority to Anderson upon said two counts. Knauss and Adler appealed to the Board of Appeals, which tribunal affirmed the Examiner's decision as to count 1, but reversed it as to count 2. Both parties thereupon appealed to this court from the respective portions of the decisions of the Board of Appeals adverse to them. As to count 3, no appeals were taken and that count is not before us.

It will be noted from an examination of the counts that No. 1 calls for two general features, viz., (*a*) a "governing valve" and (*b*) "vacuum responsive means for moving said governing valve toward its closed position," while count 2 calls for both those features and, in addition thereto, other features which will be later specified.

Knauss and Adler insist that Anderson does not disclose feature (*b*) supra, in either his patent or his reissue application.

The structural features of the respective devices are concededly quite different. For the feature (*b*), which is the salient matter at issue in count 1, the Knauss and Adler patent names a certain movable piston which controls the throttle or governing valve as a result of air pressure at one end, the pressure being dependent upon the partial vacuum produced in the intake at the other end. That is to say, the pressure which moves the "governing valve toward its closed position" is occasioned by air.

Anderson relies for said feature (*b*) on a movable member, spheroidal or substantially stream-lined, in form, and designated in both his specifications as "an auxiliary actuating member." It contributes, according to the specification, to furnishing

> the necessary actuating force for changing the position of the throttle under varying conditions of load upon the engine.

In Andersons' case the pressure results from the intake gases rather than from air, as in Knauss and Adler, but the count is not limited to air pressure, it is sufficient if the means be "vacuum responsive" and Knauss and Adler do not convince us that the Board of Appeals is in error in the statement that—

> in both instances the pressure is dependent [upon] and responsive to the vacuum in the engine cylinder.

The breadth of count 1 must be borne in mind. The "vacuum responsive means" are not limited to any particular form of structure by the claim, or count, nor is there any requirement that the "means" be "vacuum responsive" during the entire movement of the governing valve to closed position. It is sufficient to meet the count if Anderson's "auxiliary actuating member" moves the governing valve "*toward*" its closed position. (Italics ours). The Board of Appeals expresses the opinion that, in fact, Anderson's auxiliary actuating member is vacuum responsive throughout, but holds, we think correctly, that if only responsive during part of the movement the construction answers the count.

We have very carefully considered the contentions of Knauss and Adler upon this point with the result that we are not convinced of error in the Board's holding. Count 1 is not ambiguous in its terms and it does not per se contain any limitations which justify the application of any other than the familiar rule of broad interpretation.

In count 2, as will be observed, in addition to the features of count 1, already discussed, there are the following elements: (*a*) "a spring," and (*b*) means for causing said spring to be deflected at a continuously increasing rate * * *.

These are limitations to which the Board of Appeals gave consideration in holding that Anderson is not entitled to make this count.

The issue practically turns upon the proper construction of the clause "deflected at a continuously increasing rate."

In Knauss and Adler the spring is deflected at a continuously increasing rate from the beginning of its movement in opposing the movement of the vacuum responsive means to the end of such spring's action, that is, during the entire collapsible movement of the spring.

In Anderson the spring deflection increases at a greater rate than the movement of the vacuum responsive means during only a portion of the movement toward the closing of the valve. Throughout the remainder of the movement until the valve is carried to closed position, the deflection, or compression, of the spring is reduced.

It seems to us that it is most reasonable to construe the word "continuously," as used in count 2, as meaning throughout the entire operation. At any rate, the fact that the tribunals of the Patent Office, composed of experts, differ as to the meaning is evidence at least of ambiguity in the phrase, and when ambiguity is present, the count should be given the meaning which it obviously has in the source where it originated—the Knauss and Adler patent. *Sweetland* v. *Cole*, 19 C. C. P. A. (Patents) 751, 754, 53 F.(2d) 709, 415 O. G. 4, and cases there cited.

The decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

LAWNER *v.* KATZMAN

No. 3,991. Decided April 12, 1933

INTERFERENCE—PRIORITY—ORIGINALITY.

Evidence reviewed and *Held* to establish that the invention in issue originated with K. and was disclosed by him to L. and priority was properly awarded to K.

APPEAL from the Patent Office. Affirmed.

Mr. Max D. Ordmann for Lawner.

Messrs. Denison & Thompson, Mr. Eugene A. Thompson, and *Mr. T. K. Bryant* for Katzman.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office, affirming a decision of the Examiner of Interferences, awarding priority of invention to appellee in an interference proceeding involving a patent issued to appellant on April 19, 1927, upon an application filed June 8, 1926, and an application of appellee filed January 3, 1928.

There is but a single count in the issue, copied from appellant's patent, which reads as follows:

An electric vaporiser comprising a receptacle, a removable lid therefor, an electric heater suspended from said lid and having outwardly projecting terminals for the engagement of an electric plug and means engaging said receptacle and said plug to prevent the removal of said lid while the plug is in engagement with said terminals.

The last element of said count appears to express the essential novelty of the contested invention.

As embodying said element appellant discloses in his patent a stand comprising a base and vertical post projecting from the base, upon which is formed a rectangular plug-embracing member, while appellee in his application shows a stand comprising a base and two vertical members projecting upwardly therefrom which slidably support a plug-carrying bail. While the construction of the devices of the respective parties is not identical, it is conceded that the count reads upon both structures.

The invention is described in the decision of the Board of Appeals as follows:

The invention relates to a vaporiser intended for use in the treatment of bronchial diseases such as asthma etc. The vaporizer comprises a closed receptacle as a glass jar in which the liquid to be vaporized is contained. The cover for the jar has screw threaded engagement therewith and serves as supporting means for a pair of electrodes which depend into the solution. The cover also has a nozzle or spout through which the vapors pass. The upper surface of the cover is provided with upstanding terminals for the electrodes and these terminals may be engaged by an ordinary plug at the end of a flexible cord such as is commonly employed with electrical appliances. The receptacle is mounted on a stand and in order to prevent the cover from being removed from the receptacle when the plug is in engagement with the terminals, a connection is provided between the stand and plug which prevents rotation of the latter and consequently also rotation of the cover with respect to the receptacle when the plug is in engagement with the terminals.

Inasmuch as appellee's application was not filed until after the issue of the patent to appellant, the burden was upon appellee to establish priority of invention beyond a reasonable doubt.

Appellant in his preliminary statement alleged conception of the invention on or about April 30, 1924, and disclosure to others on that date; that he embodied his invention in a full sized device which was completed about the 25th of March, 1926, and successfully operated on that date.

Appellee in his preliminary statement alleged conception of the invention on or about February 15, 1926, disclosure to others on March 1, 1926, and that about March 22, 1926, he completed a full sized working device.

Both tribunals of the Patent Office held that there were not independent inventions involved, but that the issue was strictly a case of originality of invention, and that appellant derived the invention from appellee.

It appears from the testimony that, prior to March, 1926, appellant had been engaged in the manufacture of various kinds of wearing apparel, and that appellee had been, and was at said time, engaged in the manufacture of electric water heaters, and was also engaged in the furniture business. Appellant's sister was the wife of one Tartikoff, who was the brother of appellee's wife, and the parties hereto had been acquainted with each other for some years prior to 1926.

It is appellant's contention that in 1923 appellee explained to him the water heater which he was manufacturing and the principles of its operation; that in the latter part of September, 1924, his, appellant's, child was ill and it was necessary to give it steam inhalations, which was done by the use of a vaporizer then on the market, the heating element of which was an alcohol stove; that when so used by his wife it caught fire and when, in the evening, appellant returned home and was told by his wife of this occurrence, he shortly thereafter conceived the invention in issue; that while he had never, previous to that time, been engaged in any form of electrical business, he had done general reading upon the subject of electricity; that he made two sketches embodying the invention, which he offered in evidence; that shortly thereafter he went to the shop of his father, who was engaged in the tinsmith and plumbing business, and made three models of the invention, all of which were completed before the middle of October, 1924, said exhibits being marked Lawner Exhibits C, D, and I, and introduced in evidence; that he disclosed the invention to his wife and father immediately after conception, and about six months thereafter to appellee, showing him one of the devices that he, appellant, had constructed; that appellee stated that he was not interested in the device; that in the month of December, 1925, appellant disclosed the invention to one Duberstein in an endeavor to interest him in the production and marketing of the invention; that at that time said Duberstein declined to become financially interested in the matter; that in March, 1926, when appellee was visiting a relative in Brooklyn, he told appellant that he had investigated the possibilities of the vaporizer and was ready to go in with him for the purpose of manufacturing and selling such vaporizers, but that he did not think it was necessary to have any stand for the vaporizer, stating that the cost of the vaporizer with a stand would be too great for its successful marketing; that at that time appellee had with him a vaporizer without a stand; that appellant insisted that, because of the danger of shock to the user of a vaporizer, a stand which would prevent the removal of the receptacle from the lid before the circuit had been disconnected was absolutely necessary, whereupon appellee stated that he did not care for appellant's stand but would have one made up by the Scovill Manufacturing Company of Waterbury, Connecticut, who had clever engineers and would be able to make a better stand than that produced by appellant; that thereupon appellant and appellee joined forces, appellant to act as salesman and appellee to manufacture the vaporizers, prepare or have prepared an application for a patent on the invention for appellant, and appellee was to pay appellant, as the vaporizers were sold, $5 per dozen as compensation for his invention and his efforts toward marketing the device; that no written agreement was entered into; that said arrangement was to be temporary only, and that later on, when the business had been more developed, a permanent arrangement would be made; that appellant thereafter, within a period of six or seven weeks, sold said vaporizers, with a promise that a suitable stand would be provided, to more than thirty wholesale drug firms; that said sales were made under the name of the Renwal Sales Company ("Renwal" being appellant's name spelled backwards), appellant maintaining a business office in the office of Tartikoff, appellee's brother-in-law; that after said period of six or seven weeks, appellant terminated the agreement with appellee because of the failure of appellee to live up to his promises, such as the sending out of circulars describing the invention, and the filing of an application for patent on the invention; that about the end of May, 1926, appellant again approached said Duberstein upon the subject of becoming financially interested in his invention, and that an agreement was entered into between them for the manufacture and sale of appellant's vaporizer; that, as their first step, they employed one Guido to make dies for manufacturing the stand for the vaporizer, and, they having been found satisfactory, appellant and Duberstein organized the American Sundries Company, Inc., about June, 1926, and about July of that year began manufacturing a vaporizer, the stand of which embodied the invention here involved; that said Guido for a time manufactured said stand, and that the other parts of the device were procured from various sources, the heating arrangement being practically the same as that employed by appellee in his water heaters; that about October, 1926, appellant received a letter from appellee's attorneys stating that appellant's device was very similar to the device being manufactured by the Kant Kool Electric Water Heater Company, for which device applications for patent were pending, and that as soon as one or more patents were issued upon said applications, the American Sundries Company would be held liable for infringement, which letter was introduced in evidence; that thereupon appellant changed the form of the heating element in the device so as to avoid infringement of the heating element used by appellee; that prior to making said change, and a few days after receiving said letter from appellee's attorneys, appellant's attorneys replied to the same, stating for the American Sundries Company, Inc. that they did not know what the products of appellee's company were, nor what, if any, claims of their applications had been allowed; that applications for patent for electrically heated vessels produced by said American Sundries Company, Inc. had been pending for some time, and stating that said company was prepared to defend the priority of their invention; the letter also suggested that if the claims in the applications of the parties were in conflict, it might be advisable to have an interference declared. This letter was introduced in evidence, and appellant testified that no reply was received to it.

Appellant's testimony as to conception, disclosure and construction of the device embodying the invention, was corroborated in substantially all its details by his wife, and as to disclosure in 1925 and activities subsequent to May, 1926, by said Duberstein, with whom appellant became associated as aforesaid.

As hereinafter pointed out, the record contains no corroborative evidence of appellant's testimony by disinterested parties.

Appellee, upon the other hand, contends that he conceived the invention in issue about February, 1926, and disclosed it to others immediately thereafter; that he was using a vaporizer with an alcohol burner, and that while so in use it caught fire; that the idea then occurred to him that a vaporizer could be so constructed electrically as to be absolutely safe to the user; that at that time he was engaged in the manufacture and sale of electeric water heaters at Ogdensburg, N. Y., under the name of the Kant Kool Electric Water Heater Company, and had employed in his factory two men named Brennan and Doe; that shortly after his conception said Brennan, under his direction, made several models of appellee's device, which models were introduced in evidence as Katzman Exhibits 3, 4, 5 and 6; that Exhibit 3 embodies the invention here in issue; that in March, 1926, appellee and his wife visited New York to attend a wedding, taking with him a part of the device to show his relatives; that he did not take with him a model of the stand which is the essential element of the invention here in issue; that he disclosed the invention here involved to relatives, including his brother-in-law, said Tartikoff, who asked appellant if he was looking for a salesman; upon replying in the affirmative, said Tartikoff recommended his brother-in-law, appellant, for such position and brought about a meeting between appellant and appellee; that at such meeting appellee disclosed to appellant the invention in issue, appellant professing ignorance as to the principles of its operation, and that appellee made an oral agreement with appellant that the latter should act as salesman for vaporizers manufactured by appellee's company, the Kant Kool Electric Water Heater Company, appellant's compensation to be $5 per dozen for all vaporizers sold by him, and that all orders were to be taken in the name of said company; that thereafter, in the month of March, appellee visited Waterbury, Connecticut, and there interviewed one Bennett, the electrical engineer for the Scovill Manufacturing Company, and one Perry, an employee of said company, to whom he disclosed the invention in issue and requested them to furnish estimates of the cost of its manufacture; at that time appellee did not have with him the complete device, but only the top, the spout and the plug connection at the top, but explained to said Bennett the construction that he desired, embodying the invention here involved; that thereupon the draftsman of said company, under the direction of said Bennett, prepared drawings which were completed on May 17, 1926, a photostatic copy of which was received by appellee some time during the said month of May; that this drawing, which was introduced in evidence, discloses the invention here involved; that on June 3, 1926, appellee wrote to said Scovill Manufacturing Company, expressing satisfaction with the drawing and requesting an estimate of the costs of the device, constructed in accordance with said drawing, in lots of 25,000 to 100,000; that on July 6, 1926, said company wrote appellee offering to manufacture and sell to him the device embodying the invention here involved at a specified price; that appellee considered the offered price too great to enable him to market the device successfully, and continued to manufacture the device in accordance with his model 6 at a cheaper cost; that said model 6 differs from the invention here in issue in that the container may be separated from the balance of the device without disconnecting the electrodes from the source of power supply; that on June 8, 1926, appellee made application for a patent for the invention embodied in said Exhibit 6, and on May 17, 1927, he received a patent therefor; that appellee sent to appellant a sample of said Exhibit 6, upon which all orders secured by appellant were taken; that appellant insisted that no stand for the device was necessary; that in the month of April, 1926, appellee's wife, at the dictation of appellant, wrote to appellee a letter which was introduced in evidence, wherein appellant acknowledged the receipt of a package—

containing the stand, photograph, etc.,

and stating that the stand

brings the price up entirely too high for it to be a large seller,

and that the stand

is not quite practical and does not give the service that it is intended for,

and further stating that

I really believe that if you find you cannot manufacture a stand within the price of $15 per dozen, that we can safely put out the product to the trade without any stand whatsoever and sell it as we are showing it at the present time;

that after appellant had acted as salesman for about a month, appellant's employment was terminated by appellee for the reason that appellant was taking orders for the vaporizer under the name of the Renwul Sales Company, contrary to the instructions he had received from appellee; that late in the fall of 1927 appellee began to make and sell vaporizers embodying the invention here in issue, a sample of which was introduced in evidence as Katzman's Exhibit 9.

Appellant's testimony in support of his contentions, was, as hereinbefore observed, corroborated only by interested parties, his wife and business associate.

The testimony of appellee is supported as to conception, disclosure, and making of a device embodying the invention in February, 1926, by appellee's wife and said Brennan; said Brennan, at the time of the taking of testimony herein, may be considered to be a disinterested party inasmuch as he had left appellee's employ more than a year and a half prior to that time. Bennett, who, acting upon instructions of appellee, directed the making of the drawings, which drawings were completed on May 17, 1926, is also a disinterested party.

Both tribunals of the Patent Office held that, under the evidence presented, independent inventions were not involved, but that the issue to be determined was strictly originality of invention, and that it was established beyond a reasonable doubt that the invention originated with appellee and not with appellant.

We have carefully examined the evidence in the record and we agree with the conclusion reached by the Patent Office tribunals. The evidence, taken as a whole, establishes to a moral certainty that appellant derived the invention from appellee.

We will not here undertake to refer to all the evidence which leads us to this conclusion, but will point out some of the most important features which compel us to reject the testimony for appellant.

Appellee has established beyond a reasonable doubt, by the testimony of the disinterested parties Brennan and Bennett, that he was in possession of the invention here involved prior to June 8, 1926, the filing date of appellant's application upon which his patent was issued.

Appellant's claim that he conceived the invention in 1924 and disclosed it to appellee in 1925 is, we think, discredited by the following facts, among others. Appellant testified that in 1924 he made by hand three devices embodying the invention here involved, the work being done in the shop of his father, who was a tinsmith and plumber. Appellant offered in evidence three devices, Exhibits C, D, and I, which, he testified, he made at said time. This testimony was corroborated by appellant's wife, while his associate, Duberstein, testified that he was shown said exhibits by appellant in 1925. The witness Guido, appearing in behalf of appellee, testified that he made Exhibits D and I at the request of appellant in June, July or August, 1926, but that he did not make Exhibit C. Guido was by trade a tool and die maker, and testified that the base, handle and loop of Exhibits D and I were cut and stamped by a press. We have carefully examined said Exhibits D and I and it is apparent to us that the handle and loop, at least, were stamped parts, whereas Exhibit C shows plainly that said parts were made by hand. If the testimony of appellant and his witnesses is not to be credited as to Exhibits D and I, we see no reason why it should be credited as to Exhibit C, there being no corroborating evidence by disinterested parties.

The witness Guido testified that appellant, when he approached him with respect to his manufacturing the stands embodying the invention, did not exhibit any model of appellant's device, but that appellant and the witness, together, made a sketch or drawing of the same, the witness following the instructions of appellant. Appellant's testimony is that he had Exhibits C, D, and I in his possession at his home in the same city where Guido lived when he approached the latter, and if that were true, it seems to us he would naturally have exhibited one or more of them to the witness Guido. It is true that appellee did not take with him to the Scovill Manufacturing Company his complete device, but this is reasonably explained by him on the ground that when he left his home in Ogdensburg he had formed no intention of visiting the Scovill Manufacturing Company.

While the testimony of the witness Guido is somewhat confusing, it being apparent that he had a poor command of the English language, we do, as did the Board of Appeals, attach weight to his testimony.

Another circumstance discrediting appellant's claim of originality is the fact that, when he undertook the sale of appellee's device, the sample sent him upon which to take orders did not embody appellant's claimed invention, but did cover the invention for which appellee received a patent on May 17, 1927, while appellant in his testimony stated that he was to receive $5 per dozen as compensation for *his* invention and selling the same. While appellant denies full responsibility for the letter written to appellee in April, 1926, which appellee's wife testified was dictated to her by appellant, he admits that he did dictate a letter to her to be sent to appellee and we are convinced that he did dictate all of it as it appears in evidence.

In his testimony appellant testified positively that he had insisted that a stand embodying his alleged invention was absolutely necessary for the commercial success of the vaporizers, and yet in the letter referred to he suggests discarding the idea of furnishing a stand with the vaporizer; in other words, he suggests the discarding of the only feature of the device which he now claims was his invention, and for which he was to receive compensation.

Appellant testified that he disclosed his invention to his wife, his father, and Duberstein, then a neighbor and later a business associate; appellant also testified that his father was not living at the time of taking the testimony herein. He further testified that his mother-in-law lived with him, and that his brother-in-law lived in the same house, occupying the upstairs portion, but that he did not disclose the invention to either of these persons although the mother-in-law was aware, he said, of the incident of the alcohol lamp taking fire, which incident led him to conceive the invention. His only explanation of this failure is that he desired to keep his invention secret so far as possible. This explanation does not impress us when considered in connection with his testimony regarding disclosure to Duberstein and appellee, for there is nothing in said testimony that he requested them to regard his purported disclosure as confidential.

Appellant in his preliminary statement stated that he embodied his invention in a full sized device which was completed about March 25, 1926. In his testimony he stated that this was an error, but did not explain how the error came to be made. He did testify, however, that he operated the device he first made in 1924, which did not include the invention here involved, and found that upon unscrewing the lid from the jar he received an electric shock, which led him to perfect the device by embodying the invention here involved. The inference to be drawn from his testimony, if credible, is that he embodied his invention in a full sized device which was completed in 1924, whereas under oath in his preliminary statement he gave the date as March 25, 1926. It would seem that if he really did embody his invention in a full sized device in 1924 he would have remembered that fact when he made his preliminary statement.

Another circumstance proper to be considered is that appellant had had no actual experience in the

art to which the invention relates, he having been a manufacturer of wearing apparel, while appellee had for some years been engaged in the manufacture of an electrical water heating device covered by a patent to one Martin, and had practical experience in electerical construction in connection therewith. It has been held that when each of two parties to an interference claims a disclosure to the other, the presumption is in favor of the one who has a practical knowledge of the art, and against the one who has not such knowledge. *Alexander* v. *Blackman*, 26 App. D. C. 541, 121 O. G. 1979. Irrespective of whether such rule should be applicable to all cases, it certainly should apply to cases like that at bar where technical skill is involved.

Appellant, however, argues that certain testimony of appellee negatives the claim that he, the appellee, was the inventor, and particularly calls attention to appellee's testimony wherein he states that in September, 1926, he purchased one of appellant's devices and saw marked thereon the words "Patent Pending." From this testimony appellant draws the inference that if appellee had a model of the device made in February or March, 1926, he would not have waited until January 3, 1928, to file an application for a patent thereon.

With respect to this contention, it is sufficient to say that the evidence establishes beyond a reasonable doubt that appellee did have a device embodying the invention here involved, constructed in February, 1926. Under the circumstances of this case, we do not think that appellant's delay in applying for a patent is sufficient to raise a doubt that he was not the original inventor of the device here involved.

Appellant also contends that appellee has not denied that appellant disclosed the invention to him in 1925, as testified to by appellant. While it is true that the record contains no categorical denial of such testimony of appellant, it does amply show that appellee throughout claimed to be the inventor of the device here involved and affirmatively testified that when he first disclosed the invention to appellant he, the appellant, exhibited ignorance of the principles upon which it operated. In view of this testimony, it cannot be held that appellant's testimony of disclosure of the invention to appellee in 1925 was not rebutted by appellee's testimony.

The foregoing facts, together with others appearing in the record of less importance, lead us to the conviction that the Board of Appeals did not err in affirming the decision of the Examiner of Interferences, awarding priority of invention to appellee, and its decision is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE WAGNER

No. 3,126. Decided April 17, 1933

PATENTABILITY—BLOWPIPE APPARATUS.

Certain claims for a blowpipe apparatus *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Joseph H. Milans and *Mr. Calvin T. Milans* for Wagner.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office, affirming that of the Examiner, rejecting, for want of invention over the prior art, claims 18, 19, 21, and 22 of appellant's application for patent; claims 3 to 11, inclusive, 17, 20, 23, and 24 were allowed by the Examiner.

Claim 18 is illustrative of the claims on appeal and reads as follows:

18. In blowpipe apparatus, the combination of blowpipe supporting means, mechanism for effecting relative movement of said supporting means and the work operated upon, and blowpipe means mounted on said supporting means adapted and arranged to deliver intersecting gaseous heat or cutting jets against the same side of the work and in a plane transverse to the direction of such movement.

The reference relied upon by the Board is: Bucknam, 1,084,692, January 20, 1914.

The invention covered by the claims on appeal is thus described in the decision of the Board:

The invention claimed is a machine for cutting metal work. It comprises a supporting means which may be moved relatively to the work. On this supporting means a pair of cutting torches are adjustably mounted and arranged so as to emit converging cutting jets to the metal work. The jets will then cut the metal to form beveled edges on it.

Discussing the reference Bucknam, the Board said:

The Bucknam patent discloses a gas welding and cutting apparatus. It comprises a support on which are movably mounted the arms 13 and 14. In the form shown in Figure 1, a cutting torch is mounted on each arm and the torches are arranged to converge toward each other. They are intended to be mounted on opposite sides of the metal to be cut. In Figure 9 the torches are arranged on the same side of the metal to be cut, and with one torch behind the other. In Figures 10 and 11 the torches are arranged for adjustment transversely of the arms 13 and 14.

The Board further called attention to Figure 12 of the Bucknam drawings, showing a method of mounting torches, wherein each torch is connected to a bar by means of a collar carrying a horizontal pin, inserted in an opening in said bar and retained by a set screw, following which the Board said:

* * * With this construction it is obvious that the torches can be adjusted so as to converge toward the work. If they be so adjusted, it is obvious that a single cut can be made having beveled edges. We believe that since the structure shown in this patent has all the capability of the structure covered by the claims, the reference is sufficient to anticipate the claims. Any mechanic of course can adjust the torches by means of the set screws. If adjusted to converge toward the work they will perform the same function as in the present invention.

Bucknam's specification, referring to this point, states:

* * * Angular adjustment of the torches to direct the jets either perpendicular to the surface of the work or at any inclination is provided for by pivoting the holders 49 to the carriages 46, as indicated at 50. * * *

The Board of Appeals in its decision did not refer to the above quoted recital in the Bucknam specification, but relied upon his drawings as disclosing the structure corresponding to the claims here in issue. We do not find it necessary to decide whether said recital is material to the issue here involved, for we are clear that the Board did not err in holding that the drawings are sufficient to afford a proper basis for the rejection of appellant's claims. While it is true that drawings may not always be relied upon for anticipation of a later application, *In re Daniel*, 17 C. C. P. A. (Patents) 605, 34 F.(2d) 994, it is also true that if a drawing clearly suggests to one skilled in the art the way in which the result sought is accomplished by a later applicant, it is immaterial whether the prior patentee's showing was accidental or intentional. *In re Bager*, 18 C. C. P. A. (Patents) 1094, 47 F.(2d) 951, 409 O. G. 295.

It is our view that the reference Bucknam would suggest to one skilled in the art the adjustment referred to in the above quotation from the decision of the Board, and therefore appellant's claims do not involve invention in view of the said reference.

While appellant contends that the horizontal pin in the Bucknam drawing may be other than round, thus preventing its rotation, the shading in the drawing clearly indicates that the pin is circular in cross-section.

The decision of the Board of Appeals is affirmed.

Affirmed.

CARNEGIE LIBRARY OF ATLANTA

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

1,105,595, C. Nessler, Hair curler; 1,642,450, W. S. Lewis, Hair waving curler rod; 1,725,254, same, Hair curler; 1,742,177, same, Permanent waving hair curler, D. C., N. D. Ohio, E. Div., Doc. 3881, *The Nestle Le Mur Co.* v. *The Barsteel Products Co.* Dismissed without prejudice May 5, 1933.

1,122,348, Wright & Wright, Flying machine, D. C. Del., Doc. E 845, *Curtiss Assets Corp.* v. *Bellanca Aircraft Corp.* Dismissed without prejudice May 1, 1933.

1,173,079, E. F. Alexanderson, Selective tuning system; 1,195,632, W. C. White, Circuit connections of electron discharge apparatus; 1,239,852, F. K. Vreeland, Receiver of electrical impulses; 1,544,081, same, Transmitting intelligence by radiant energy; 1,573,374, P. A. Chamberlain, Radio condenser; 1,728,879, Rice & Kellogg, Amplifying system; Re. 18,579, Ballantine & Hull, Demodulator and method of demodulation, D. C., S. D. N. Y., Doc. E 78/254, *Radio Corp. of America et al.* v. *John Wanamaker of N. Y.* Consent decree for plaintiff (notice May 13, 1933).

1,183,064, V. L. Emerson, Universal joint, filed Apr. 27, 1933, D. C. Del., Doc. B 1027, *A. B. Emerson* v. *Universal Products Co., Inc.*

1,195,632. (See 1,173,079.)

1,208,550, G. H. Curtiss, Hydroaeroplane; 1,420,600, same, Flying machine; 1,420,610, same, Method of getting a hydroaeroplane off the water into the air; 1,246,021, N. W. Dalton, Streamlined shock absorber; 1,246,027, H. Kleckler, Aeroplane control surface; 1,291,678, same, Wing construction; 1,296,780, Zimmerman & Kleckler, Pusher hydroaeroplane, D. C. Del., Doc. E 805, *Curtiss Assets Corp.* v. *Bellanca Aircraft Corp.* Dismissed without prejudice May 1, 1933.

1,212,258, G. E. Purple, Belt fastening; T. M. 183,808, Flexible Steel Lacing Co., Flexible or hinged belt fastener, filed May 9, 1933, D. C. Conn. (New Haven), Doc. E 2294, *Flexible Steel Lacing Co.* v. *The Eagle Belt Lacer Co.*

1,231,764, F. Lowenstein, Telephone relay; 1,403,475, H. D. Arnold, Vacuum tube circuit; 1,465,332, same, Vacuum tube amplifier; 1,507,016, L. de Forest, Radiosignaling system; 1,507,017, same, Improvement in wireless telegraph and telephone system; 1,618,017, same, Wireless telegraph apparatus, D. C., S. D. N. Y., Doc. E 78/253, *Radio Corp. of America et al.* v. *John Wanamaker of N. Y.* Consent decree for plaintiff (notice May 13, 1933).

1,239,852. (See 1,173,079.) 1,246,021. (See 1,203,550.)

1,246,027. (See 1,203,550.)

1,258,302, V. Bendix, Starter, D. C., E. D. N. Y., Doc. E 6034, *Eclysse Machine Co. et al.* v. *J. H. Specialty Mfg. Corp.* Decree for plaintiff (notice May 11, 1933).

1,291,678. (See 1,203,550.) 1,296,780. (See 1,203,550.)

1,321,323, L. R. Nelson, Process or method for making hose connectors or couplings, filed May 15, 1933, D. C., S. D. N. Y., Doc. E 76/33, *L. R. Nelson Mfg. Co., Inc.*, v. *Selden Mfg. Corp. et al.*

1,336,640, J. E. Leonard, Film magazine, filed Apr. 18, 1933, D. C., S. D. Calif. (Los Angeles), Doc. E Z-93-J, *Mitchell Camera Corp.* v. *Hollywood Camera Exchange et al.*

1,336,418, C. D. Miller, Auxiliary windshield, D. C., S. D. Calif. (Los Angeles), Doc. E I-88-M, *G. C. De Garmo et al.* (*Sunset Specialty Co.*) v. *P. Weindorf* (*Angeles Wing Co.*). Dismissed for want of prosecution Feb. 6, 1933.

1,392,629, 1,890,974, C. P. Dubbs, Process for converting hydrocarbons, filed May 11, 1933, D. C., Del. Doc. E 1032, *Universal Oil Products Co.* v. *Black Gold Refining Co.*

1,401,376. (See 1,550,396.) 1,403,475. (See 1,231,764.)

1,420 609. (See 1,203,550.) 1,420,610. (See 1,203,550.)

1,465,332. (See 1,231,764.) 1,507,016. (See 1,231,764.)

1,507,017. (See 1,231,764.)

1,513,298, J. W. Turrentine, Therapeutic product and procers of preparing same, D. C., S. D. Calif. (Los Angeles), Doc. E U-106-C, *J. W. Turrentine et al.* v. *P. E. Park Laboratories, Inc.* Dismissed without prejudice Apr. 7, 1933.

1,523,678, Wheeler & Scott, Cheese treating apparatus; 1,639,828, same, Process for treating cheese, D. C., E. D. Wis. (Milwaukee), Doc. 3598, *Lakeshire Cheese Co.* v. *Shefford Cheese Co., Inc.* Decree for defendant, bill dismissed May 11, 1933.

1,544,081. (See 1,173,079.)

1,550,396, R. B. Smith, Method of oiling cotton rawstock; 1,401,376, A. W. Thompson, Fiber conditioning process and apparatus, appeal filed May 13, 1933, C. C. A., 4th Cir., Doc. 3512, *The Texas Co. et al.* v. *Borne Scrymser Co.*

1,573,374. (See 1,173,079.)

1,611,012, H. F. Flowers, Three-way dump motor truck bodies, C. C. A., 3d Cir., Doc. 4898, *H. F. Flowers* v. *Mager Car Corp.* Decree affirmed May 15, 1933.

1,618,017. (See 1,231,764.)

1,618,767, R. R. Machlett, Manufacture of luminous electrical discharge tubes, D. C., S. D. Calif. (Los Angeles), Doc. E L-87-M, *Rainbow Light, Inc., et al.* v. *Electrical Products Corp.* Dismissed for want of prosecution Apr. 3, 1933.

1,639,828. (See 1,523,678.) 1,642,450. (See 1,105,595.)

1,648,808, L. A. Haseltine, Wave signaling system, D. C., E. D. N. Y., Doc. E 6722, *Haseltine Corp.* v. *Abraham & Straus, Inc.* Consent decree for plaintiff May 16, 1933.

1,695,609, F. Richter, Tail-board and tail-board mounting for trucks, filed May 12, 1933, D. C., E. D. N. Y., Doc. E 6947, *Perfect Tail Boards Patented* v. *Schenck Auto Body Corp. et al.*

1,710,073, 1,714,191, S. Ruben, Electrical condenser, filed May 10, 1933, D. C., S. D. N. Y., Doc. E 76/23, *Ruben Condenser Co. et al.* v. *Tobe Deutschmann Corp.*

1,714,191. (See 1,710,073.)

1,722,671, A. E. Lingo, Method of making columns, filed May 15, 1933, D. C., S. D. N. Y., Doc. E 76/36, *J. E. Lingo & Son, Inc., et al.* v. *American Mast & Spar Corp.*

1,726,486. (See Re. 18,253.) 1,728,879. (See 1,173,079.)

1,732,808, S. H. Goldberg, Hair pin, D. C., S. D. N. Y., Doc. E 74/489, *Chain Store Products Corp.* v. *A. C. Hauptman.* Consent decree for plaintiff May 8, 1933. Same, filed May 11, 1933, D. C., S. D. N. Y., Doc. E 76/25, *Chain Store Products Corp.* v. *Hair Net Packers Co., Inc.*

1,735,254. (See 1,105,595.) 1,742,177. (See 1,105,595.)

1,755,114, L. A. Haseltine, Unicontrol signaling system; 1,755,115, same, Variable condenser, D. C., E. D. N. Y., Doc. E 6723, *Haseltine Corp.* v. *Abraham & Straus, Inc.* Consent decree for plaintiff May 16, 1933.

1,755,115. (See 1,755,114.)

1,776,560, F. X. Krell, Monolithic hollow concrete construction, filed Apr. 24, 1933, D. C., S. D. Calif. (Los Angeles), Doc. E Z-100-C, *F. X. Krell* v. *County of Los Angeles et al.*

1,815,768, A. Georgiev, Electrolyte, C. C. A., 2d Cir., Doc. 12589, *Aerovox Corp.* v. *Concourse Electric Co., Inc.* Decree reversed (notice May 15, 1933).

1,819,660, A. A. Stone, Broiling device, filed May 4, 1933, D. C., N. D. Ohio, E. Div., Doc. 4658, *M. G. Friedman et al.* v. *The Buckeye Aluminum Co.*

1,841,800, E. M. Gale, Feeder for threading machine, D. C., N. D. Ala. (Birmingham), Doc. 738, *W. H. North* v. *E. M. Gale et al.* Dismissed without prejudice May 13, 1933.

1,845,306, 1,857,055, W. A. McDonald, Coupling system, D. C., E. D. N. Y., Doc. E 6724, *Haseltine Corp.* v. *Abraham & Straus, Inc.* Consent decree for plaintiff May 16, 1933.

1,852,710, L. A. Haseltine, Antenna coupling system, D. C., E. D. N. Y., Doc. E 6725, *Haseltine Corp.* v. *Abraham & Straus, Inc.* Consent decree for plaintiff May 16, 1933.

1,854,158, A. S. MacDonald, Library construction, filed May 3, 1933, D. C. Del., Doc. E 1031, *Snead & Co.* v. *Remington-Rand, Inc.*

1,854,600, Pollak & Ostersetzer, Condensation product and method of making same; 1,858,168, Ostersetzer & Riesenfeld, Manufacture of phenol formaldehyde condensation product, filed May 10, 1933, D. C., E. D. N. Y., Doc. E 6946, *Catalin Corp. of America* v. *The Marblette Corp.*

1,857,055. (See 1,845,306.) 1,858,168. (See 1,854,600.)

1,875,090, A. H. Metcalf, Cuff button, D. C. R. I., Doc. 436, *The Beer & Wilde Co.* v. *A. Abel (Abel Mfg. Co.).* Consent decree May 11, 1933.

1,886,199, E. R. Kulka, Plug receptacle, filed May 16, 1933, D. C., S. D. N. Y., Doc. E 76/44, *C. D. Wood Electric Co., Inc.*, v. *Monowatt Electric Corp.*

1,887,710, G. Davison, Fur scarf hanger, filed May 12, 1933, D. C., E. D. Mo. (St. Louis), Doc. 10406, *G. Davison* v. *Kline's, Inc.*

1,890,974. (See 1,392,629.)

1,896,769, J. P. Gleason, Display device, filed Apr. 25, 1933, D. C., S. D. Calif. (Los Angeles), Doc. E Z-101-M, *J. P. Gleason* v. *L. H. McClintock et al.* (*McClintock Display Co.*).

Re. 17,817, E. A. Jones, Gas furnace, C. C. A., 6th Cir., Doc. 6230, *L. J. Mueller Furnace Co.* v. *The Bryant Heater & Mfg. Co.* Judgment affirmed May 16, 1933.

Re. 18,253 (of 1,726,486), D. P. Heath, Refrigerator and refrigerating apparatus, D. C., S. D. Ohio, E. Div., Doc. 4503, *D. P. Heath* v. *Mullins Mfg. Co.* Dismissed without prejudice May 2, 1933.

Re. 18,579. (See 1,173,079.)

Des. 63,464, D. Gerber, Ice cream cone, filed Feb. 6, 1933, D. C. N. J., Doc. E 4576, *Maryland Baking Co., Inc.*, v. *Independent Biscuit Co., Inc.*

Des. 79,585, Spyker & Kindel, Bed post; Des. 84,786, T. G. Kindel, Bed, D. C., W. D. Mich., S. Div., Doc. E 2503, *Kindel Furniture Co.* v. *West Michigan Furniture Co.* Dismissed May 5, 1933.

Des. 83,829, Peterson & Marcellus, Portable electric fan, D. C., S. D. Ohio, W. Div., Doc. E 294, *Barber-Colman Co.* v. *The Master Electric Co.* Patent held not infringed, bill dismissed May 16, 1933.

Des. 84,238, E. W. Freudenberg, Embroidered textile fabric, filed Feb. 14, 1933, D. C. N. J., Doc. E 4579, *A. Freudenberg & Co., Inc.*, v. *W. F. Breuss.*

Des. 84,786. (See Des. 79,585.)

Des. 86,360, A. Epstein, Knitted cap, filed May 11, 1933, D. C., S. D. N. Y., Doc. E 76/27, *Epstein & Hammer, Inc.*, v. *Blue Bird Infants Wear Co.*

Des. 86,502, E. G. Zullig, Embroidered textile, filed Mar. 22, 1933, D. C. N. J., Doc. E 4593, *S. Blien* v. *Schofler & Tieger, Inc.*

Des. 87,097, J. J. Klecka, Finger ring, filed Jan. 20, 1933, D. C. N. J., Doc. E 4565, *J. R. Wood & Sons, Inc.*, v. *Abelson's, Inc.*

Des. 87,379, Bechtol & Tratsch, Game board, filed May 2, 1933, D. C. Md., Doc. E 2177, *A. B. T. Mfg. Co., Inc.*, v. *Prosperity Coin Machine Corp. et al.*

Des. 88,283, R. N. Aldrich, Service station; Des. 88,947, same, Building, filed Apr. 3, 1933, D. C., S. D. Calif. (Los Angeles), Doc. E Z-85-C, *Standard Stations, Inc.*, v. *Signal Oil & Gas Co. of Calif. et al.*

Des. 88,880, H. Levenson, Refreshment cart, filed May 2, 1933, D. C., E. D. N. Y., Doc. E 6941, *H. Levenson* v. *Gluttsman's, Inc.*

Des. 88,947. (See Des. 88,283.)

Des. 89,296, L. Daniel, Button, D. C., S. D. N. Y., Doc. E 75/359, *B. Blumenthal & Co., Inc.*, v. *Best Braid & Trimming Co., Inc.* Consent decree for plaintiff (notice May 13, 1933).

T. M. 91,607, G. W. Sanborn & Son, Canned salmon, D. C. N. D. Ill., E. Div., Doc. 11585, *Alaska Pacific Salmon Corp.* v. *Peter Pan Sales Corp.* Dismissed without prejudice May 9, 1933.

T. M. 188,808. (See 1,212,258.)

TRADE-MARKS

OFFICIAL GAZETTE, JULY 4, 1933

[VOL. 432. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 326,488. NACHMANN SPRING FILLED CORPORATION, Chicago, Ill. Filed Apr. 25, 1932.

JAV-I-PAD

The word "Pad" being disclaimed as constituting a part of the trade-mark.

For Upholstery Batts for Furniture Cushions for Seats, Backs, Arms, Etc., and for Mattresses.

Claims use since Apr. 12, 1932.

Ser. No. 337,453. HENRY K. BARNES COMPANY, Boston, Mass. Filed May 4, 1933.

GAM-OIL

No claim is made to the word "Oil" apart from the showing herein.

For Lace Leather.

Claims use since July, 1903.

Ser. No. 337,550. ALPINE TANNING COMPANY, New York, N. Y. Filed May 6, 1933.

ALPINE TANNING COMPANY

For Tanned Sheepskin Commonly Known as Chamois Skin.

Claims use since Apr. 13, 1933.

Ser. No. 337,786. HULTMAN & POWELL CORPORATION, Dover, Del. Filed May 13, 1933.

WRAPPED IN SUNSHINE

For Cellulose Material in Semi-Solid Form or in Rolls or Sheets in Bulk.

Claims use since May 6, 1933.

Ser. No. 338,014. R. NEUMANN & COMPANY, Hoboken, N. J. Filed May 19, 1933.

TIGER TOOTH

For Leather.

Claims use since Dec. 1, 1932.

CLASS 2

Receptacles

Ser. No. 335,755. WEST BEND ALUMINUM COMPANY, West Bend, Wis. Filed Mar. 16, 1933.

MEAS-O-MATIC

For Coffee Dispensing Canisters.

Claims use since June 6, 1932.

Ser. No. 338,015. PAL-O-PAK COMPANY, Hartland, Wis. Filed May 19, 1933.

PAL-O-PAK

For Shipping, Carrying, and Storage Cases, Cartons, and Boxes.

Claims use since May 15, 1932.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 337,468. REINA-K. G. HARTMANN, doing business as Knit-Tainer Company, Winnetka, Ill. Filed May 4, 1933.

KNIT-TAINER

Applicant disclaims the word "Knit" apart from the mark shown in the drawing.
For Fabric Portfolios.
Claims use since Apr. 28, 1933.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 321,551. TULSITE CHEMICAL PRODUCTS CO., Tulsa, Okla. Filed Nov. 27, 1931.

TULSITE

For a Boiler Cleaning Compound, Soaps of All Kinds, Drum Cleaning Compound, Vat Cleaning Compound, Dairy Cleaning Compound, Hand Cleaning Compound, Driveway Cleaning Compound, Platers' Cleaning Compound, and Soap Compounds.
Claims use since Aug. 1, 1930.

Ser. No. 335,668. FALAC SMOOTH-EDGE COMPANY, Belleville, N. J. Filed Mar. 15, 1933.

FALAC
GIVES RAZORS
SMOOTH-EDGE

The words "Gives Razors a Smooth Edge" are disclaimed apart from the other features of the mark shown on the drawing.
For Razor Strop Dressing.
Claims use since July 2, 1932.

Ser. No. 335,770. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed Mar. 17, 1933.

PETER PAN



The picture of a woman appearing on the drawing is fanciful.
For Soap.
Claims use since 1910.

Ser. No. 336,668. ACME CHEMICAL COMPANY, Milwaukee, Wis. Filed Apr. 12, 1933.

SPRAYMIST

For Floor Dressing Used as a Floor Sweeping Compound or Stainless Dressing.
Claims use since Apr. 2, 1932.

Ser. No. 337,621. JOHN F. RENTSCHLER, doing business as Trux-O Chemical Co., Kansas City, Mo. Filed May 8, 1933.

TRUX-O CLEANSER

The word "Cleanser" is disclaimed apart from the other features of the mark shown on the drawing.
For Washing and Cleaning Compound for General Household Use Having Incidental Water-Softening Properties.
Claims use since Sept. 1, 1932.

Ser. No. 337,697. JAMES M. HANSARD, doing business as Glass Wonder Products Company, Lakeland, Fla. Filed May 11, 1933.

CAMCO

For Glass and Metal Cleaning and Polishing Compound.
Claims use since Apr. 26, 1933.

Ser. No. 337,976. ALBERT I. WIGLER, Newark, N. J. Filed May 18, 1933.

Wiglers

For Soap, Shaving Cream, Belt Dressings, Dry Cleaner, Razor Strop Abrasive, Hand Soap Cleaner.
Claims use since Apr. 15, 1933.

CLASS 5

Adhesives

Ser. No. 315,748. G. C. HILTON, doing business as Central Specialty Company, Hutchinson, Kans. Filed June 12, 1931.

STICKS LIKE A Leech FLUID CEMENT

Applicant disclaims the right to the exclusive use of the words "Sticks Like a Fluid Cement" apart from the mark as shown in the drawing.
For Liquid or Fluid Adhesive Cement or Glue for Mechanical and Household Uses.
Claims use since Jan. 1, 1931.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 314,818. NEW YORK HAIR CO., INC., doing business as Milady Products, New York, N. Y. Filed May 20, 1931.

milady

For Cosmetics—Namely, Lipsticks, Rouge, Face Powder, Face Lotions, Hand Lotions, Bath Salts, Bath Tablets, Eye Bath Lotion, Astringents—Cream and Liquids, Cold Cream, Refreshing Creams, Vanishing Cream, Talcum Powder, Hair Lotions, Shampoos, Sachet, Toilet Waters, Eye Shadow, Mascara, Nail Polish, Nail Creams, Nail Powder, Cuticle Ice, Eyebrow and Eyelash Growers Cream, Eyebrow Pencil, Muscle Oil, and Perfume.
Claims use since 1911.

Ser, No. 328,606. GRENOVILLE, INC., New York, N. Y. Filed July 7, 1932.

Le Rouge du Diable

The word "Rouge" appearing on the drawing is hereby disclaimed.
For Face Powder, Rouge, Rouge Cream, Liquid Rouge, Dry Lipstick, Cream Paste Rouge, Liquid Eyeshadow, Eyebrow Pencil, Perfume, Toilet Water, Hair Lotion, Hair Dye, Nail Polish.
Claims use since Apr. 1, 1932.

Ser. No. 330,478. JOHNSON OIL REFINING COMPANY, Chicago, Ill. Filed Sept. 19, 1932.

FLY-FOE

For Insecticide.
Claims use since Aug. 23, 1932.

Ser. No. 334,785. AKTIESELSKABET KYMEIA, Copenhagen, Denmark. Filed Feb. 9, 1933.

CUPRINOL

For Chemical, Curing and Preserving Preparations for Treating Woodwork and Masonry Against Decay and Fungi Teredo, Limnoria, and All Wood Destroying Insects and Their Larva, and Also for Impregnation of Sails, Ropes, Fishing-Lines and Fishing-Nets, Tarpaulins, Tent Duck, and the Like.
Claims use since June, 1911.

Ser. No. 334,940. SURGIDENT, LTD., Los Angeles, Calif. Filed Feb. 18, 1933.

igol

For Pharmaceutical Preparations in Liquid and Plastic Form Containing Free Iodine.
Claims use since Jan. 28, 1933.

Ser. No. 335,020. JOHN PRESTON DAVIS, doing business as No-Per-Spiro Company, Lake Providence, La. Filed Feb. 16, 1933.

NO-PER-SPIRO

For Antiseptic Deodorant Skin Lotion.
Claims use since Jan. 1, 1932.

Ser. No. 335,576. CHEMISCHE VERTRIEBSGESELLSCHAFT M. B. H. GERECO, Gereco in Wiesbaden, Germany. Filed Mar. 10, 1933.

ARETUS

For Medicinal Preparation for Gynecological Purposes.
Claims use since Sept. 20, 1931.

Ser. No. 335,782. GEORGE S. HEYER, Houston, Tex., assignor to San Antonio Drug Company, San Antonio, Tex. Filed Mar. 17, 1933.

Geo. W. Heyer

The trade-mark consists of the autographic signature of George W. Heyer, deceased.
For Skin Powder, Termed Prickly Heat Powder.
Claims use since Apr. 1, 1888.

Ser. No. 336,046. MOUNTAIN VARNISH & COLOR WORKS, INC., doing business as M. V. C. Lab., Toledo, Ohio. Filed Mar. 24, 1933.

Miraglo

For Manicure Preparations—Namely, Nail Polish, Polish Remover, Cuticle Remover, and Cuticle Oil.
Claims use since Dec. 27, 1932.

Ser. No. 336,060. GEORGE D. LEOCOPOULOS, Chicopee Falls, Mass. Filed Mar. 21, 1933.

G. D. L.
4M for 1
Guaranteed
Toothache
Killer

Applicant hereby disclaims the words "Guaranteed Toothache Killer."
For Preparation for the Treatment of Toothaches.
Claims use since Jan. 2, 1932.

Ser. No. 336,266. GEORGE ECKHARDT, doing business as Eckhardt Laboratories, Chicago, Ill. Filed Mar. 31, 1933.

LEG-SO

For Salves and Ointments Used as a Treatment for Sores, Particularly for Long Standing Open Sores, Ulcers, Eczema, and Other Skin Diseases.
Claims use since June 7, 1932.

Ser. No. 336,606. THORNTON M. FINCHER, doing business as Veg-E-Trate Sales Company, Atlanta, Ga. Filed Apr. 10, 1933.

VEG-E-TRATE

For Vegetable Concentrates for the Treatment of Pellagra, Anaemia, Diarrhoea, Colitis, Constipation, and Loss of Weight.
Claims use since Feb. 15, 1933.

Ser. No. 336,620. MELODINE PRODUCTS CORPORATION, Los Angeles, Calif. Filed Apr. 10, 1933.

Melodine

For Pharmaceutical Preparations in Liquid and Plastic Form Containing Free Iodine for Use Wherever Iodine Prophylaxis, Therapy, or Sterilization is Indicated.
Claims use since Mar. 31, 1933.

Ser. No. 336,757. LOUIS O. ECK, Detroit, Mich. Filed Apr. 14, 1933.

CENTURY

For Moth-Destroyer and Disinfecting Compound.
Claims use since Aug. 1, 1911.

Ser. No. 336,818. WILLIAM T. CORN, doing business as Corn Co., Cleveland, Tenn. Filed Apr. 15, 1933.

Fedro-Gesic
888

For Analgesic Nasal Balm.
Claims use since Feb. 15, 1933.

Ser. No. 336,856. LORENZO CALDERAZZI, doing business as The Reviver Company, Portsmouth, Va. Filed Apr. 17, 1933.

L. C.
Hair Reviver



LORENZO CALDERAZZI

The portrait appearing on the drawing is a draftman's India ink representation of an actual photograph of the applicant Lorenzo Calderazzi. The words "Hair Reviver" are disclaimed apart from the other features of the mark shown in the drawing.
For Hair Tonic and Dressing.
Claims use since Apr. 1, 1932.

Ser. No. 336,971. VANITY-NITE COMPANY, Chicago, Ill. Filed Apr. 19, 1933.



For Brilliantine and Nail Polish.
Claims use since Apr. 1, 1933.

Ser. No. 337,050. GEORGE V. SHEA, doing business as George V. Shea & Co., Woodside, L. I., N. Y. Filed Apr. 21, 1933.

'AMPULOID'

For Alkaloidal Salts and Other Medicinal Substances, Either in Sterile Solution or Suspension, for Hypodermatic, Intramuscular, or Intravenous Injection and Presented in Sealed Glass Vials Containing Either Single or Multiple Doses—Namely, Sterile Ergot, Pituitary Solution, Glucose Solution.
Claims use since Mar. 10, 1932.

Ser. No. 337,066. BLACKSTONE REMEDIES CO., New York, N. Y. Filed Apr. 22, 1933.

KLEER-HED

For Headache Powders.
Claims use since Mar. 1, 1933.

Ser. No. 337,177. ALLCOCK MANUFACTURING CO., Ossining, N. Y. Filed Apr. 26, 1933.



No claim is made to the word "Pills" except insofar as it may form a part of the particular trade-mark. The signature forming a part of the mark is that of Benjamin Brandreth, M. D.
For Pills Having a Laxative Effect.
Claim use since 1835.

Ser. No. 337,236. CAMILLO A. ROSASCO, doing business as Camillo Laboratories, Indianapolis, Ind. Filed Apr. 27, 1933.

FOREPEST

For Insecticide and Fungicide for Treating Grasses and Horicultural Purposes.
Claims use since Apr. 1, 1932.

Ser. No. 337,297. R. M. HERLIHY COMPANY, Weston, W. Va. Filed Apr. 29, 1933.

ELNOR

For Face Lotion.
Claims use since Jan. 26, 1933.

Ser. No. 337,408. ALLCOCK MANUFACTURING CO., Ossining, N. Y. Filed May 3, 1933. Under 10-year proviso.

BRANDRETH

For Pills Having a Laxative Effect.
Claims use since 1835.

Ser. No. 337,431. KING LABORATORIES, INC., Syracuse, N. Y. Filed May 3, 1933.

BAREX

For Getters Used in the Evacuation of Vacuum Tubes.
Claims use since December, 1931.

Ser. No. 337,622. RITZ DRUG COMPANY, Elizabeth, N. J. Filed May 8, 1933.

Joalene

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches; Skin Whitener in Liquid, Cream, and Solid Form; Face Packs, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations Suitable for the Darkening of Eyebrows and Eyelashes, Hand Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Pastes, Depilatories, Nail Creams, Nail Bleaches, Nail Powders, Nail Polishes, Witch Hazel, Peroxide, Petroleum Jellies, Witch Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Obesity Creams, Refreshing Creams, Perfumes, and Toilet Waters.
Claims use since Apr. 3, 1933.

Ser. No. 337,640. JOHN N. MELAHOUSES, Newburgh, N. Y. Filed May 9, 1933.

MELA-VIM



The portrait appearing on the drawing is that of John N. Melahoures, the applicant.
For Liquid Herb and Vegetable Compound Medicinal Preparation for the Restoring and Building Up of the Blood and General Building Up of the Vitality of the Body.
Claims use since May 4, 1933.

Ser. No. 337,643. THE NAUGATUCK CHEMICAL COMPANY, New York, N. Y. Filed May 9, 1933.

HEPTYLLYS

For Synthetic Aromatic Chemicals for Use in Perfumes.
Claims use since Dec. 7, 1932.

Ser. No. 337,668. FAMOUS MINERAL WATER CO., Mineral Wells, Tex. Filed May 10, 1933.



The portion of the drawing indicating the fire beneath the pot is lined to show the color red.
For Mineral Crystals and Evaporated Mineral Water Residue, for the Treatment of Constipation, Indigestion, and Liver and Kidney Troubles.
Claims use since Mar. 12, 1915.

Ser. No. 337,925. DR. IRA MALONE, doing business as Peri Riza Co., Sapulpa, Okla. Filed May 17, 1933.

PERI RIZA

For Preparation Used in the Treatment of Pyorrhea, Vincents Infection, Hypertrophied Gums, Infected Third Molar Pockets, and Other Inflammatory Diseases of the Mouth.
Claims use since Dec. 1, 1930.

Ser. No. 338,169. J. H. TUVIN, doing business as Seedol Laboratories, New York, N. Y. Filed May 23, 1933.

COLITOL

For Medicinal Preparation for the Treatment of Colitis, Intestinal Inflammation and Acidity.
Claims use since Jan. 8, 1933.

CLASS 10

Fertilizers

Ser. No. 338,162. F. S. ROYSTER GUANO CO., Norfolk, Va. Filed May 23, 1933.

SNOW CAP

For Fertilizer.
Claims use since May 15, 1933.

CLASS 12

Construction Materials

Ser. No. 332,382. PENN METAL COMPANY, Boston, Mass. Filed Nov. 22, 1932.

Penmetal

For Metal Laths, Metal Corners, Metal Corner Beads, Metal Structural Channels, Structural Tubular Forms.
Claims use since Oct. 18, 1932.

Ser. No. 333,295. LYSAGHT PROTECTED STEEL CO., LTD., Bristol, England. Filed Dec. 22, 1932.



No claim is made herein to the registration of the words "Protected Steel" apart from the mark shown in the drawing.
For Corrugated Steel Roofing and Siding and Sheet Metal Roofing, Gutters, and Tiling.
Claims use since July 1, 1932.

Ser. No. 334,442. N. V. BETONFABRIEK DE MEYBOOR, De Steeg, Community of Rheden, Netherlands. Filed Jan. 28, 1933.

STELCON

For Concrete Tiles, Concrete Plates, and Concrete Curbstones, Concrete Blocks, and Concrete Stones, All of Which are Provided with a Cover Consisting of Cement and Metal Granules.
Claims use since Jan. 1, 1929.

Ser. No. 337,402. SETO MANUFACTURING COMPANY, INC., New York, N. Y. Filed May 2, 1933.

SETO

For Compound for Setting Closet Bowls, Compound for Setting Tile and Fixtures, Pipe Joint Compound; Compound for the Repair of Roofs, Gutters and the Like; and Caulking, Waterproofing, and Rustproofing Compounds.
Claims use since Aug. 10, 1932.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 326,536. CARSON PIRIE SCOTT & CO., Chicago, Ill. Filed Apr. 27, 1932.

Just Rite

No claim is made to the words "Just Rite" apart from the mark shown in the drawing.
For Sheet Aluminum Ware, Cast Aluminum Ware, Stainless Aluminum Ware, Stainless Steel Ware, Enameled Ware, and Cast Iron Ware—Namely, Double Boilers, Ham Boilers, Fish Boilers, Mixing Bowls, Coffee Boilers, Asparagus Boilers, Colanders, Toast Covers, Drinking Cups, Waterless Cookers, Cookie Sheets, Pot Covers, Casseroles, Butter Dishes, Refrigerator Dishes, Dippers, Vegetable Dishes, Funnels, French Fryers, Griddles, Convex Kettles, Tea Kettles, Preserve Kettles, Solid Ladles, Perforated Ladles, Ring Moulds, Crusty Corn Cob Moulds, Fancy Moulds, Dutch Ovens, Baking Pans, Dish Pans, Pudding Pans, Sauce Pans, Convex Sauce Pans, Lipped Pans, Mountain Cake Pans, Jelly Cake Pans, Deep Biscuit Pans, Corn Cake Pans, Angel Cake Pans, Pie Pans, Bread Pans, Roasting and Baking Pans, Pitchers, Double Frying Pans, Gem Pans, Bread Stick Pans, Shirred Egg Pans, Stock Pots, Coffee Pots, Convex Sauce Pots, Tea Pots, Percolators, Egg Poachers, Platters, Oval Roasters, Sink Strainers, Soup and Gravy Strainers, Skillets, Trays, Waffle Irons.
Claims use since Mar. 12, 1932.

Ser. No. 331,356. BARNETT OPERATING COMPANY, Oklahoma City, Okla. Filed Oct. 15, 1932.

GLASVAC cofemaker

Applicant disclaims the word "Cofemaker" apart from the mark shown in the drawing.
For Coffee Brewers.
Claims use since Aug. 2, 1932.

Ser. No. 333,971. LONG & TATUM, doing business as E. Z. Automatic Battery Filler Co., San Francisco, Calif. Filed Jan. 16, 1933.

E-Z

For Automatic Battery Filler Valve.
Claims use since Sept. 29, 1932.

Ser. No. 335,453. SCOVILL MANUFACTURING COMPANY, Waterbury, Conn. Filed Mar. 3, 1933.

SUPER-CLINCH

No claim is made to the word "Clinch" apart from the mark as shown.
For Hose Couplings and Menders.
Claims use since Feb. 28, 1933.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 330,328. AMERICAN SHEET AND TIN PLATE COMPANY, Pittsburgh, Pa. Filed Sept. 14, 1932.

SUPERDRAW

For Sheets and Plates—Namely, Tin and Terne Plates.
Claims use since Jan. 27, 1932.

Ser. No. 337,556. DRIVER-HARRIS COMPANY, Harrison, N. J. Filed May 6, 1933.

Nichrome

For Alloys of Nickel, Chromium, and Iron in the Form of Wire, Ribbon, Strip, Strands, Sheet Castings, Ingots, and Forgings.
Claims use since Jan. 1, 1908.

CLASS 15

Oils and Greases

Ser. No. 337,144. THE SUNRAY OIL CORPORATION, New York, N. Y. Filed Apr. 24, 1933.

SUNRAY NATURAL POWER OILS

The words "Natural Power Oils" are disclaimed apart from the other features of the mark shown in the drawing.
For Lubricating Oils and Greases.
Claims use since Nov. 1, 1930.

Ser. No. 338,049. HOUDE ENGINEERING CORPORATION, Buffalo, N. Y. Filed May 20, 1933.

HOUDAILLE

For Shock Absorber Fluid with a Petroleum Base.
Claims use since Jan. 1, 1928.

Ser. No. 338,050. HOUDE ENGINEERING CORPORATION, Buffalo, N. Y. Filed May 20, 1933.

HOO DYE

For Shock Absorber Fluid with a Petroleum Base.
Claims use since Jan. 1, 1928.

CLASS 16

Paints and Painters' Materials

Ser. No. 334,162. RUTH ROBINSON, doing business as Robinson Products, Ozone Park, Long Island, N. Y. Filed Jan. 20, 1933.

ROBINSON'S WAX POLISH

Applicant disclaims the words "Wax Polish" apart from the mark shown.
For Wax Polish for Woodwork.
Claims use since November, 1931.

Ser. No. 337,540. O'BRIEN VARNISH COMPANY, South Bend, Ind. Filed May 5, 1933.

T. T. O.

For Clear Varnishes, Ready Mixed Paints, Varnish Enamels, Ready Mixed Flat Wall Paint, and Ready Mixed Enamel Under Coat.
Claims use since Nov. 15, 1932.

Ser. No. 337,617. NORFOLK PAINT & VARNISH COMPANY, Quincy, Mass. Filed May 8, 1933.

FLOFLEX

For Dry, Paste, Ready-Mixed, and Enamel Paints, and Varnishes.
Claims use since Mar. 31, 1933.

Ser. No. 337,856. THE LOWE BROTHERS COMPANY, Dayton, Ohio. Filed May 15, 1933.

NEPTO-NAMEL

For Paints of Ready Mixed, Semi-Paste, and Paste Form; Varnishes, Enamels of Paint or Varnish Type, Lacquers, Stains, Paint Undercoaters, and Thinners or Reducers for Paints, Varnishes, Enamels, Lacquers, Stains, and Paint Undercoaters.
Claims use since Mar. 13, 1933.

Ser. No. 338,115. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed May 22, 1933.

RITECOTE

For Paints in Paste, Semi-Liquid or Ready-Mixed Form, Varnishes, Lacquers, Paint Enamels, Japans, Stains, and Paint Fillers.
Claims use since Apr. 5, 1932.

CLASS 20

Linoleum and Oiled Cloth

Ser. No. 337,178. CARTHAGE MILLS INCORPORATED, Cincinnati, Ohio. Filed Apr. 26, 1933.

CARTHAGE FELT BASE HALF SOLES

No claim is made for the words "Carthage Felt Base" apart from the mark shown in the drawing.
For Felt-Base Floor Coverings.
Claims use since Mar. 28, 1933.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 327,235. THE WADSWORTH ELECTRIC MFG. CO., INC., Covington, Ky. Filed May 18, 1932.

D-tach-O

For Show-Case Lighting Assemblies and Parts Thereof.
Claims use since May 11, 1932.

Ser. No. 336,737. STANDARD MOTOR PRODUCTS, INC., New York, N. Y. Filed Apr. 13, 1933.

BLUE STREAK

For Parts for Ignition Systems of Internal Combustion Engines—Namely, Induction Coils.
Claims use since Feb. 15, 1933.

Ser. No. 337,637. A. H. KELEHER CO. INC., New York, N. Y. Filed May 9, 1933.

KELETRON

For Radio Receiving Sets.
Claims use since Mar. 4, 1933.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 328,442. AUGUST F. LUZZI, Wichita Falls, Tex. Filed June 30, 1932.

NUWAY

For Exercising Machines.
Claims use since Feb. 15, 1931.

Ser. No. 334,111. PARKER BROTHERS, INC., Portland, Me., and Salem, Mass. Filed Jan. 19, 1933.

RIDE 'EM COWBOY

For Card Game.
Claims use since Nov. 15, 1932.

Ser. No. 336,539. JAMES M. NAHON, Madrid, Spain. Filed Apr. 7, 1933.



For Golf Club Bags and Golf Bags, Particularly Adapted to Carry Golf Balls.
Claims use since July, 1931.

Ser. No. 337,868. ZIG-ZAG PUZZLES COMPANY, Chicago, Ill. Filed May 15, 1933.

ZIG-ZAG

For Jig Saw Puzzles, Picture Puzzles and Jig Saw Puzzle Toys.
Claims use since Sept. 25, 1931.

Ser. No. 338,005. JAMES HEDDON'S SONS, Dowagiac, Mich. Filed May 19, 1933.

LIFE PAL

For Fishing Rods.
Claims use since Feb. 14, 1933.

Ser. No. 338,248. J. R. B. INDUSTRIES, INC., Manteno, Ill. Filed May 26, 1933.

"Nab It"

For Artificial Fish Baits.
Claims use since Apr. 27, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 332,237. SHAW-BOX CRANE & HOIST COMPANY, INC., Muskegon, Mich. Filed Nov. 17, 1932.

LOAD LIFTER

Applicant disclaims any exclusive right to the word "Load" and the word "Lifter" apart from the mark shown.
For Cranes, Hoists, Railway Drop Pit Tables, Railway Transfer Tables, Cable Reels, and Hydraulic Brakes.
Claims use since November, 1921.

Ser. No. 334,241. CHARLES G. FAWKES, Denver, Colo. Filed Jan. 20, 1933.

SURE CAN OPENER SAFE

The words "Can Opener," "Sure," and "Safe" are disclaimed from the other features of the mark shown in the drawing.
For Can Openers.
Claims use since Dec. 29, 1932.

Ser. No. 335,766. THE BRISTOL AEROPLANE COMPANY LIMITED, Bristol, England. Filed Mar. 17, 1933.

THE BRISTOL MERCURY ENGINE

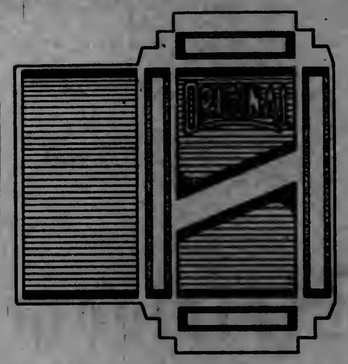
The words "The Engine" are hereby disclaimed.
For Aircraft Engines.
Claims use since 1926.

Ser. No. 336,862. MARATHON RAZOR BLADE CO., INC., Irvington, N. J. Filed Apr. 3, 1933.

VARSITY

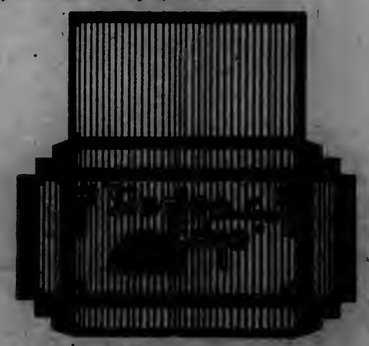
The mark consists of the word "Varsity" written above a serrated design imposed on the ridge and post slot of a razor blade, as shown in the drawing. No claim is made to the ridge and post slot or to the outline of a razor blade per se.
For Safety Razor Blades.
Claims use since Nov. 25, 1932.

Ser. No. 337,627. UTILITY BLADE CORPORATION, Irvington, N. J. Filed May 8, 1933.



The drawing is lined to represent blue color. No claim is made to the word "Original" apart from the mark shown on the drawing.
For Safety Razor Blades.
Claims use since Jan. 25, 1933.

Ser. No. 337,628. UTILITY BLADE CORPORATION, Irvington, N. J. Filed May 8, 1933.



The drawing is lined to represent red color. No claim is made to the word "Single Edge" apart from the mark shown on the drawing.
For Safety Razor Blades.
Claims use since Jan. 25, 1933.

Ser. No. 337,843. A. B. DICK COMPANY, Chicago, Ill. Filed May 15, 1933.

EDISON-DICK

For Duplicating Machines and Parts Thereof.
Claims use since Nov. 10, 1915.

Ser. No. 337,887. PRYBRANDS, INC., Long Island City, N. Y. Filed May 16, 1933.

PEOPLES

For Razors and Razor Blades.
Claims use since May 1, 1933.

Ser. No. 337,888. PRYBRANDS, INC., Long Island City, N. Y. Filed May 16, 1933.

ST REGIS

For Razors and Razor Blades.
Claims use since May 1, 1933.

Ser. No. 337,906. AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y. Filed May 17, 1933.

cabinet

For Razors and Razor Blades.
Claims use since Apr. 29, 1933.

Ser. No. 337,995. CONTINENTAL BLADE CORPORATION, Brooklyn, N. Y. Filed May 19, 1933.

CONTINENTAL

For Razors and Razor Blades.
Claims use since May 13, 1933.

Ser. No. 338,106. PARLIN INDUSTRIES, INC., Tulsa, Okla. Filed May 22, 1933.

TOWL-O-MATIC

For Towel Vending Machines.
Claims use since Apr. 1, 1933.

Ser. No. 338,137. CONTINENTAL BLADE CORPORATION, Brooklyn, N. Y. Filed May 23, 1933.

Daily

For Razors and Razor Blades.
Claims use since May 16, 1933.

Ser. No. 338,161. NICHOLSON FILE COMPANY, Providence, R. I. Filed May 23, 1933.



The lining shown on the drawing indicates the coloring gray. No claim under the act of Feb. 20, 1905, is made to the representation of a box or label. However, applicant reserves herein all common law rights thereto. No claim apart from the mark shown is made to the words "Trade Mark", "Providence, R. I.", "Made in U. S. A.", "Patent Increment Cut", and "Warranted and made from Best File Steel". However, the applicant reserves all common law rights to any and all of the features collectively as shown on the drawing.

Applicant is owner of registrations Nos. 50,137 and 50,881, both issued under the provision of the ten-year clause of the act of February 20, 1905, and renewed. Applicant is also owner of registrations Nos. 46,957, 47,120, 49,110, 50,882, 50,883, 50,905, 50,906, 142,640, and 184,434.

For Files and Rasps.
Claims use since January, 1919.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 310,887. SHERIFF-ROCKFORD SILVER COMPANY, Rockford, Ill. Filed Feb. 9, 1931.



The conventional lining indicates black and silver. No claim is made to the word "Tarnishproof" apart from the mark shown, and the shape of the tag, per se, is disclaimed.

For Silver Hollow Ware for Table and Ornamental Use.
Claims use since Jan. 26, 1931.

Ser. No. 337,089. ONEIDA COMMUNITY LIMITED, Oneida, N. Y. Filed Apr. 22, 1933.

Heirloom

For Sterling Silver Flatware.
Claims use since June 17, 1933.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 337,665. BRUSH-A-WAY PRODUCTS, INC., Cleveland, Ohio. Filed May 10, 1933.

BRUSH-AWAY

The word "Brush" is disclaimed apart from the mark as shown in the drawing.

For Fountain Cleaning Brush.
Claims use since April, 1932.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 334,492. KRESGE DEPARTMENT STORES CORPORATION, Newark, N. J. Filed Jan. 31, 1933.



For Tableware of China, Crockery and Porcelain, Ceramic Wares; Hollow Earthenware, Kitchenware of Crockery and Porcelain, Earthenware and Porcelain Culinary Utensils, Pottery Ware; Vases of China, Porcelain, and Earthenware.

Claims use since Feb. 1, 1927.

CLASS 31

Filters and Refrigerators

Ser. No. 337,813. JUSTIN F. WAIT, New York, N. Y. Filed May 13, 1933.

PURE
HYDROZONE
WATER

Applicant disclaims the use of the words "Pure" and "Water" apart from the mark shown in the drawing.

For Water Filters and Parts Thereof.
Claims use since Feb. 1, 1927.

Ser. No. 338,225. M. LEITNER & COMPANY, Chicago, Ill. Filed May 25, 1933.

Port-A-Bar

For Portable Coolers for Bulk and Bottle Beverages.
Claims use since Feb. 1, 1933.

CLASS 32

Furniture and Upholstery

Ser. No. 336,866. D. M. GOODRICH, New York, N. Y. Filed Apr. 17, 1933.

DUROLITE

For Rubber Composition Tops for Tables and Counters.
Claims use since July 1, 1932.

CLASS 34

Heating, Lighting and Ventilating Apparatus

Ser. No. 332,375. LONZA ELEKTRIZITÄTSWERKE UND CHEMISCHE FABRIKEN AKTIENGESELLSCHAFT, Gampel and Basel, Switzerland. Filed Nov. 22, 1932.



For Burners for Lighting, Heating, and Cooking Purposes, Utilizing Solid Chemical Fuels.
Claims use since 1920.

Ser. No. 338,199. WILLIAM B. ROGERS, doing business as The Floating Flame Burner Company, Baltimore, Md. Filed May 24, 1933.

floating flame

For Pulverized Coal Burners, Furnaces, and Parts Thereof.
Claims use since Sept. 1, 1932.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 322,663. THE S. K. WELLMAN COMPANY, Cleveland, Ohio. Filed Jan. 2, 1932.

Velvetouch

For Brake Linings and Transmission Linings.
Claims use since Aug. 15, 1923.

Ser. No. 329,399. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed Aug. 8, 1932.

Firestone

Applicant sets up ownership to Reg. No. 140,804 for the name "Firestone" registered under the act of Feb. 20, 1905.

For Tire Covers; Brake Lining; Gaskets; Hose; Tire Valve Stems; Rubber and Rubberized Fabric Belting; Tire Repair Plugs; and Tire Repair Kits Containing Tire Repair Gum, Patches, Rubber Solvent, and/or Patching Cement.

The trade-mark has been continuously used and applied to tire covers in applicant's business since on or about Sept. 19, 1924; to brake lining since on or about Nov. 1, 1928; to gaskets since on or about May 21, 1929; to

hose since on or about Feb. 22, 1928; to tire valve stems since on or about Mar. 1, 1928; to rubber and rubberized fabric belting since on or about June 28, 1925; to tire repair plugs since on or about June 1, 1927; and to tire repair kits since on or about July 1, 1910.

Ser. No. 338,086. GILLETTE RUBBER COMPANY, Eau Claire, Wis. Filed May 22, 1933.

ENSIGN

For Automobile and Bicycle Tires and Tubes.
Claims use since Apr. 18, 1933.

CLASS 36

Musical Instruments and Supplies

Ser. No. 337,497. WURLITZER GRAND PIANO COMPANY, doing business as All-American Accordion Company, DeKalb, Ill. Filed May 4, 1933.

ALL AMERICAN ACCORDION COMPANY

No claim is made to the words "Accordion Company" apart from the mark shown in the drawing.
For Piano Accordions of All Sizes.
Claims use since Mar. 10, 1933.

CLASS 37

Paper and Stationery

Ser. No. 333,807. MILTON PAPER CO., INC., New York, N. Y. Filed Jan. 10, 1933.



No claim is made to the word "Ultrafine" apart from the mark as shown in the drawing.
For Artists' Drawing Boards and Papers.
Claims use since Sept. 7, 1932.

Ser. No. 335,149. WILSON-JONES COMPANY, Chicago, Ill. Filed Feb. 20, 1933.

KWIK

For Folder Fasteners.
Claims use since Feb. 16, 1933.

CLASS 38

Prints and Publications

Ser. No. 308,035. PROFESSIONAL GOLFERS' ASSOCIATION OF AMERICA, Chicago, Ill. Filed Nov. 18, 1930.



For Monthly Publications.
Claims use since May, 1920.

Ser. No. 333,467. THE SAN DIEGO CLUB, San Diego, Calif. Filed Dec. 28, 1932.

San Diego Club Life

For Magazine Published Weekly.
Claims use since May 18, 1932.

Ser. No. 337,749. LONG ISLAND STAR PUBLISHING COMPANY, Long Island City, N. Y. Filed May 12, 1933.

LONG ISLAND DAILY STAR

For Daily Newspaper.
Claims use since May 1, 1933.

Ser. No. 337,789. KING FEATURES SYNDICATE, INC., New York, N. Y. Filed May 13, 1933.

"TELL IT TO ELSIE"

For Column or Section of a Newspaper.
Claims use since Nov. 4, 1929.

Ser. No. 337,877. HELEN H. BOYD, Toledo, Ohio. Filed May 16, 1933.



For Newspaper Magazine Columns and/or Pamphlet Articles and Illustrations Published Periodically.
Claims use since May 5, 1933.

CLASS 39

Clothing

Ser. No. 334,114. SIG. ROSENTHAL CO., INC., New York, N. Y. Filed Jan. 19, 1933.

Rosita

For Ladies' Undergarments and Nightgowns—Namely, Chemises, Slips, Envelope Chemises, Panties, Bloomers, Brassières, Pajamas, and Petticoats of Textile Material.
Claims use since Nov. 1, 1932.

Ser. No. 334,427. CALTEX SPORTSWEAR, INC., Los Angeles, Calif. Filed Jan. 28, 1933.

Caltex

For Women's Knitted Sportwear—Namely, Sweaters, Suits, Skirts, Scarfs, and Hats.
Claims use since June 15, 1925.

Ser. No. 334,798. I. ISAAC & SON CORP., New York, N. Y. Filed Feb. 9, 1933.

Guardsman Reps

No claim is made to the word "Reps" apart from the mark shown in the drawing, but in making this disclaimer applicant does not relinquish any of its common law rights.
For Men's Necktles, Cravats, and Scarfs.
Claims use since Jan. 5, 1933.

Ser. No. 336,248. WELLS-LAMONT-SMITH CORPORATION, Minneapolis, Minn. Filed Mar. 30, 1933.



The drawing is lined for red.
For Work Gloves of Fabric and Combined Fabric and Leather.
Claims use since July 27, 1931.

Ser. No. 336,264. P. H. HANES KNITTING COMPANY, Winston-Salem, N. C. Filed Mar. 31, 1933.

Kold Out

For Wearing Apparel for Men, Women, and Children—Namely, Union Suits, Undershirts, Drawers, Pull-Over Shirts, Shorts, Sleeping Garments, Sweaters, and Bathing Suits.
Claims use since November, 1931.

Ser. No. 336,368. F. A. PARKER, INC., Marblehead, Mass. Filed Apr. 3, 1933.



No claim is made to any rights in the exclusive use of the pictorial representation of a shoe.
For Infants' and Children's Shoes, Moccasins, and Slippers Made of Leather, Fabric, Rubber, or Combinations of the Same.
Claims use since summer of 1922.

Ser. No. 336,713. DELMAN, INC., New York, N. Y. Filed Apr. 13, 1933.

DEL-MAID

For Shoes Made of Leather, Textile Fabrics, or Rubber, or Combinations Thereof.
Claims use since Feb. 15, 1933.

Ser. No. 336,901. DES-ART INC., New York, N. Y. Filed Apr. 18, 1933.

dés Art
MARVO
•WEAR

No claim is made to the word "Wear" apart from the mark shown in the drawing.
For Hosiery.
Claims use since Feb. 1, 1933.

Ser. No. 337,026. FAULTLESS HOSIERY COMPANY, Washington, D. C. Filed Apr. 21, 1933.

NESTLE FORM

No exclusive right is claimed to the word "Form" apart from the mark as shown.
For Brassières.
Claims use since Jan. 1, 1933.

Ser. No. 337,095. JOHN B. STETSON COMPANY, Philadelphia, Pa. Filed Apr. 22, 1933.

The Stetson UPSWING

For Men's and Boys' Felt and Straw Hats and Cloth Caps, Men's Silk Hats, and Felt and Straw Hats for Women and Children.
Claims use since Mar. 10, 1933.

Ser. No. 337,280. L. & C. MANUFACTURING CO., New York, N. Y. Filed Apr. 27, 1933.



For Flannel Gowns, Pajamas, and Bloomers.
Claims use since July, 1932.

Ser. No. 337,334. GIMBEL BROTHERS, INC., New York, N. Y. Filed May 1, 1933.

Shine Resisto

For Men's Suits and Overcoats.
Claims use since Feb. 15, 1933.

Ser. No. 337,414. DOROTHY BICKUM, New York, N. Y. Filed May 3, 1933.

Vagabond KOBWEBS

For Foundation Garments, Bandettes, Bandeaux, Brassières, Corselettes, Girdles, Garter Belts, and Panties.
Claims use since Mar. 15, 1932.

Ser. No. 337,424. FULD & HEIMENDINGER, New York, N. Y. Filed May 3, 1933.

Elastonet

For Net Sport Caps.
Claims use since Apr. 11, 1933.

Ser. No. 337,472. THOMAS L. JOHNSON, New York, N. Y. Filed May 4, 1933.



Stanton

No claim is made to the word "Stanton" apart from the mark shown in the drawing, but in making this disclaimer applicant does not relinquish any of its common law rights.
For Hosiery.
Claims use since Sept. 14, 1931.

Ser. No. 337,480. MOYER & ZULICK, Schuylkill Haven, Pa. Filed May 4, 1933.

mada-maid

For Ladies', Misses', and Children's Vests, Bloomers, Step-Ins (Underwear), Panties, Combination Suits, Chemises, Bed Jackets, Kimonos, Bloomer Suits, Brassière Top Suits, Nightgowns, Slips, Petticoats, Brassières, Pajamas, Coolie Coats; Ensemble Suits, Consisting of Pajamas, Vests, and Coats Therefor; and Men's and Boys' Athletic Skirts, Trunks, Union Suits, and Pajamas.
Claims use since Nov. 19, 1925.

Ser. No. 337,516. LEW L. GLUCK, INC., New York, N. Y. Filed May 5, 1933.

LAND O'COTTON

For Misses' and Women's Dresses.
Claims use since November, 1931.

Ser. No. 337,546. SOUTHERN OVERALL MANUFACTURING COMPANY, Hickory, N. C. Filed May 5, 1933.



Applicant disclaims the right to the exclusive use of the word "Brand."
For Overalls, Work Shirts, and Work Trousers.
Claims use since July 1, 1929.

Ser. No. 337,630. BANCROFT WALKER COMPANY, Boston, Mass. Filed May 9, 1933.

CUTE-EES

For Women's Leather Shoes.
Claims use since May 2, 1933.

Ser. No. 337,635. GOODALL WORSTED CO., Sanford, Me. Filed May 9, 1933.

DURAMO

For Men's and Boys' Outer Wearing Apparel, Consisting of Coats, Pants, Knickerbockers, and Vests.
Claims use since Mar. 1, 1933.

Ser. No. 337,638. R. H. MACY & CO., INC., New York, N. Y. Filed May 9, 1933.

Featherwear

For Men's Tropical Worsted Suits.
Claims use since Apr. 7, 1933.

Ser. No. 337,683. VANITY FAIR SILK MILLS, Reading, Pa. Filed May 10, 1933.

KNEELAST

For Hosiery.
Claims use since May 8, 1933.

Ser. No. 337,699. THE JUVENILE SHOE CORPORATION OF AMERICA, Aurora and St. Louis, Mo. Filed May 11, 1933.

Boyishoe

For Shoes and Slippers of Leather or Kid.
Claims use since Apr. 15, 1925.

Ser. No. 337,701. AUSTIN G. KINGSTON, San Antonio, Tex. Filed May 11, 1933.

Mickey Boy

For Wearing Apparel for Boys and Girls—Namely, Hats and Caps, Coats, Shirts, Trousers, Jodhpurs, and Riding Breeches.
Claims use since June, 1932.

Ser. No. 337,703. LEVIN & HARRIS SHIRT CO. INC., New York, N. Y. Filed May 11, 1933.



For Men's and Boys' Dress Shirts and Men's and Boys' Pajamas.
Claims use since Feb. 10, 1933.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 334,405. NEWSPAPER SPECIALTIES, INC., New York, N. Y. Filed Jan. 27, 1933.

HI HO

For Piece Goods of Silk, Cotton, and Linen; Said Piece Goods Being Suitable for Making the Following Articles—Namely, Articles of Wearing Apparel, Stamped, Tinted, and Printed Household Linens and Cottons; Guest Towels, Work Bags, Scarfs, Pillows, Table Covers, and the Like.
Claims use since Jan. 25, 1933.

Ser. No. 335,256. SOCIÉTÉ A RESPONSABILITÉ LIMITÉE RODIER, Paris, France. Filed Feb. 24, 1933.

LYNIC

For Goods in the Piece—Namely, Velvets, Cretonnes, Silks, Tulles, and Nets; and Also for Veils and Laces in the Piece.
Claims use since June 24, 1929.

Ser. No. 336,913. S. A. NEWALL & SONS, London, England. Filed Apr. 18, 1933.



For Cloths and Stuffs of Wool, Worsted, Hair, and/or Combinations Thereof.
Claims use since 1930.

Ser. No. 336,964. SACHS QUALITY FURNITURE INC., New York, N. Y. Filed Apr. 19, 1933.

ROYAL IRANAR

For Textile Rugs and Carpets.
Claims use since Nov. 18, 1931.

Ser. No. 337,316. L. & E. STERN, INC., New York, N. Y. Filed Apr. 29, 1933.

"Reforestation Prints"

Applicant hereby disclaims the exclusive right to the use of the word "Prints" except as the same is used in connection with the other features of the mark shown on the drawing.
For Silk, Artificial Silk, Rayon, or Combinations Thereof in the Piece.
Claims use since Apr. 28, 1933.

Ser. No. 337,329. CARSON PIRIE SCOTT AND COMPANY, Chicago, Ill. Filed May 1, 1933.

Magic Mesh

Applicant disclaims the exclusive right to the word "Mesh" apart from the mark shown in the drawing.
For Dish Cloths.
Claims use since Feb. 10, 1933.

Ser. No. 337,512. FULD & HEIMENDINGER, New York, N. Y. Filed May 5, 1933.

VENDOME

For Veils and Hair Nets.
Claims use since January, 1933.

Ser. No. 337,728. SIDNEY BLUMENTHAL & CO., INC., New York, N. Y. Filed May 12, 1933.

Repello

For Pile Fabrics in the Piece.
Claims use since May 3, 1933.

Ser. No. 337,778. EMPIRE SILK COMPANY, New York, N. Y. Filed May 13, 1933.

MANNISH MAID

For Piece Goods of Silk and Rayon and Mixtures Thereof.
Claims use since February, 1933.

CLASS 43

Thread and Yarn

Ser. No. 337,764. THREADS, INCORPORATED, Gastonia, N. C. Filed May 12, 1933.



For Sewing Thread.
Claims use since October, 1931.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 332,222. BLECKER BEAUTY SHOPS, INC., Chicago, Ill. Filed Nov. 17, 1932.



Applicant hereby disclaims the words "Steam Oil Wave" apart from the mark as shown.
For Hair Wave Pads.
Claims use since June 19, 1931.

Ser. No. 335,987. ERNEST BAUM, doing business as Ernest Baum Products Company, Los Angeles, Calif. Filed Mar. 28, 1933.

WAVWEL

For Permanent Waving Machines, Pads, Curlers, Protectors, and Heaters for Use in Permanent Waving Machines.
Claims use since July 7, 1932.

Ser. No. 336,727. RAINBOW RUBBER COMPANY, East Butler, Pa. Filed Apr. 13, 1933.

SANI+LASTIC

For Bandages.
Claims use since Mar. 15, 1933.

Ser. No. 336,914. THE OLYMPIA LABORATORY, New Orleans, La. Filed Apr. 18, 1933.

PALL MALL
GENUINE GOLDBEATERS

The words "Genuine Goldbeaters" are disclaimed apart from the mark as shown.
Prophylactic Rubber Articles for the Prevention of Contagious Diseases.
Claims use since Apr. 1, 1930.

Ser. No. 337,339. LAMBERT PHARMACAL COMPANY, Wilmington, Del. Filed May 1, 1933.

LISTERINE

For Atomizers.
Claims use since Apr. 14, 1933.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 312,781. WHITE CLIFF MINERAL SPRINGS, St. Helena and Oakland, Calif. Filed Mar. 31, 1931.

WHITE CLIFF

For Bottled Mineral Water, Still and Carbonated.
Claims use since June, 1930.

Ser. No. 327,787. ERNEST F. BRANTBERGER, Denver, Colo. Filed June 7, 1932.



No claim is made to the words "Root Beer" nor to the representation of the receptacle.
For Root Beer.
Claims use since April, 1929.

Ser. No. 334,002. CALIFORNIA CONSUMERS COMPANY, Los Angeles, Calif. Filed Jan. 17, 1933.

LIQUID GOLD

For Fruit Juices.
Claims use since Dec. 10, 1932.

Ser. No. 337,704. JOSEPH J. LOZENSKI, doing business as Elk's Bottling Works, Leavenworth, Kans. Filed May 11, 1933.



The words "Nickel Ale" and "Leavenworth, Kas.," are disclaimed apart from the mark shown in the drawing.
For Ginger Ale, Lime Soda, and Club Soda.
Claims use since Feb. 1, 1933.

Ser. No. 337,849. AUGUSTUS H. GREGG, doing business as Cal-Baden Mineral Water, Whittier, Calif. Filed May 15, 1933.

CAL-BADEN

No claim is made to the word "Baden" except in the association shown in the drawing.
For Mineral Water.
Claims use since Dec. 1, 1932.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 309,402. WILKINSON, GADDIS & CO., Newark, N. J. Filed Dec. 30, 1930.

IDEAL

For Coffee, Tea, Butter, Eggs, Cocoa, Salted Peanuts; Cereals—Namely, Hominy and Rolled Oats; Cheese, Vanilla for Food Flavoring Purposes, Rice, Olives, Vinegar, Prepared Mustard, Honey, Worcestershire Sauce, Molasses, Marshmallow Creams, Corn Meal, Pure Maple Syrup, Beans with Pork, Apple Sauce, Jelly Powders, Tapioca, Tomato Catsup, Strawberry Jam, Grape Jelly; Fresh, Dried, Canned, and Preserved Cherries; Cocktail Sauce, Peanut Butter, Barley; Fresh, Dried, and Canned Lima Beans; Olive Oil, Sweet Pickles; Canned Fish—Namely, Shad Roe, Lobster, Tuna Fish, Salmon and Shrimp; Canned and Preserved Fruits and Vegetables—Namely, Bartlett Pears and Peas; Spices (White Pepper); Fresh, Dried, Preserved, and Canned Figs; Mayonnaise; Dried Peas, Beans, and Lentils; Chili Sauce, Mince Meat, Canned Tomato Soup and Red Decorettes for Food Purposes—that is, Small Sugared Grains Used for sprinkling Over Icings and Pastries.

Claims use since 1887.

Ser. No. 321,354. MERIDIAN LTD., doing business as El Solyo Ranch, Vernalis, Calif. Filed Nov. 20, 1931.

EL SOLYO



For Fresh Deciduous Fruits and Vegetables, Fresh Grapes, Dried Fruits, Canned Fruits, and Vegetables.

Claims use since Aug. 26, 1927.

Ser. No. 323,396. THE FIGARO COMPANY, Dallas, Tex. Filed Jan. 25, 1932.

FIGARO

For a Smoke Sauce Used in Cooking Meats and a Preparation for Curing and Flavoring Meats.

Claims use since 1904 on preparation for curing and flavoring meats, and since Aug. 1, 1931, on smoke sauce.

Ser. No. 325,318. WALTER W. CAMPBELL, Somerville, Mass. Filed Mar. 21, 1932.

BAKERTESSEN

For Bread, Brown Bread, Cake, Cookies, Pies, French Pastries, and Fruit Cake.

Claims use since Feb. 4, 1932.

Ser. No. 328,013. LOVE-ME ICE CREAM COMPANY, doing business as Love-Me Ice Cream Stores, Inc., Milwaukee, Wis. Filed June 15, 1932.



The descriptive term "Ice Cream" is disclaimed apart from the mark shown in the drawing.

For Frozen Confections.

Claims use since Mar. 12, 1932.

Ser. No. 329,782. THEODORE F. BERGFELDER, Sedalia, Mo. Filed Aug. 24, 1932.

PAN-HAS

The entire wording is disclaimed apart from the mark as shown in the drawing.

For Specially Prepared Cooked Product, Ready for Eating, and Consisting of Approximately Ninety-Five Per Cent White or Yellow Corn Meal and Five Per Cent More or Less of Boiled Meat, Including Pork, Beef, Fowl, Fish, and Liquid Extracts Therefrom.

Claims use since July 15, 1932.

Ser. No. 329,836. NU-PAK CORPORATION, New York, N. Y. Filed Aug. 25, 1932.

NU-PAK

For Fresh Vegetables, Mushrooms, Cranberries, and Fresh Fruits Both of the Deciduous and Citrus Varieties.

Claims use since Mar. 17, 1932.

Ser. No. 330,272. OELERICH & BERRY COMPANY, doing business as Oelerich & Berry Co., Chicago, Ill. Filed Sept. 12, 1932.



For Table Syrup.

Claims use since Feb. 1, 1908.

Ser. No. 331,450. UNITED STATES PRODUCTS CORPORATION, San Jose, Calif. Filed Oct. 21, 1932.

NOBILITY

For Canned Fruits and Canned Vegetables.

Claims use since Sept. 1, 1932.

Ser. No. 331,713. VICTORIAS MILLING COMPANY, INC., Manila, P. I. Filed Oct. 29, 1932.

VICTORIAS

The drawing is lined for red, but the mark is not limited to any specific color.

For Refined Sugar.

Claims use since Aug. 1, 1932.

Ser. No. 332,467. STAMATIS POLYCHRONOPOULOS, doing business as Aristocratic Co., New York, N. Y. Filed Nov. 25, 1932.

РУССКАЯ НКРА
ARISTOCRAT
BRAND
IMPORTED GENUINE RUSSIAN
CAVIAR
NATURAL PRESSED
CAVIAR
ARISTOCRATIC CO
N.Y.

All wording with the exception of the word "Aristocrat" and the name "Aristocratic Co." is disclaimed apart from the other features of the mark shown on the drawing.

For Caviar.

Claims use since Nov. 17, 1932.

Ser. No. 332,468. STAMATIS POLYCHRONOPOULOS, doing business as Aristocratic Co., New York, N. Y. Filed Nov. 25, 1932.

CAVIAROSALATA
BRAND
OR
DRESSING
CAVIAR SALAD
ARISTOCRATIC CO.
N.Y.

All wording with the exception of the name "Aristocratic Co." is disclaimed apart from the mark as shown on the drawing.

For Caviar Dressing or Caviar Salad.

Claims use since Nov. 17, 1932.

Ser. No. 333,916. PAUL BROG, Thayne, Wyo. Filed Jan. 14, 1933.

VALLEY-FANCI-CHEESE
MADE IN
THAYNE

All wording except the notation "Valley" is disclaimed apart from the other features of the mark shown in the drawing.

For Cheese.

Claims use since Aug. 1, 1932.

Ser. No. 334,539. GEORGE T. SPRINGER, doing business as Seaway Brands Co., Minneapolis, Minn. Filed Feb. 1, 1933.

SEAWAY

For Canned Vegetables and Fruits.
Claims use since Jan. 25, 1932.

Ser. No. 335,125. MAX LANDAU, doing business as Max Landau & Co., New York, N. Y. Filed Feb. 20, 1933.



All the wording is disclaimed apart from the mark as shown on the drawing.
For Cheese.
Claims use since July, 1931.

Ser. No. 336,406. FRANCES SINAGNAN ET CIE INCORPORATED, doing business as Bagatelle, New York, N. Y. Filed Apr. 4, 1933.

BAGUETTE

For Chocolate Candies.
Claims use since Feb. 24, 1933.

Ser. No. 336,453. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio. Filed Apr. 5, 1933.

COTOFLAKES

For Hydrogenated Flaked Cottonseed Oil Used as a Food.
Claims use since Mar. 21, 1933.

Ser. No. 336,587. BERRY, DODGE COMPANY, Boston, Mass. Filed Apr. 7, 1933. Under 10-year proviso.

Hollander

For Coffee.
Claims use since Jan. 1, 1885.

Ser. No. 336,648. HUDELSON DISTRIBUTING CO., Los Angeles, Calif. Filed Apr. 11, 1933.

Oysterville

The geographical word "Oysterville" is disclaimed apart from the mark shown on the drawing.
For Canned Oysters.
Claims use since Mar. 10, 1933.

Ser. No. 336,836. SHEILA ROSE, New York, N. Y. Filed Apr. 15, 1933.

HAPPY SONG

For Prepared Foods for Birds—Namely, Song Restorers, Canary Seeds and Bird Desert Food; Prepared Fish and Turtle Foods and Pet Animal Foods.
Claims use since Jan. 1, 1933.

Ser. No. 336,978. CHASE INVESTMENT COMPANY, Sanford, Fla. Filed Apr. 20, 1933.

ISLEWORTH

For Fresh Citrus Fruits.
Claims use since 1909.

Ser. No. 336,994. OXO, LIMITED, London, England. Filed Apr. 20, 1933.

OXADE

For Coffee, Cocoa, Chocolate (Whether in Solid, Powdered, or Liquid Form), Milk (Whether in Powdered or Liquid Form), Fruit Powders, Dessert Powders, Malted Milk Preparations, Meat Extracts, Malt Extracts, Bouillion, Meat Extract Cubes, Cubes for Making Soups, Liver Juice Concentrates, Beef Tea Cordials, and Preparations for Making Soups.
Claims use since March, 1931.

Ser. No. 337,044. MEYENBERG LABORATORIES, INC., doing business as Calbest Milk Co., Salinas, Calif. Filed Apr. 21, 1933.

Cal-best

The descriptive word "Best" is disclaimed apart from the mark shown on the drawing, however, applicant does not waive its common-law rights thereto.
For Canned Evaporated Milk.
Claims use since Mar. 28, 1933.

Ser. No. 337,101. WATERLOO MILLS COMPANY, Waterloo, Iowa. Filed Apr. 22, 1933.

Loaf King

For Wheat Flour.
Claims use since Aug. 1, 1924.

Ser. No. 337,136. PADDOCK & FOWLER COMPANY, INC., New York, N. Y. Filed Apr. 24, 1933.



The lining on the drawing is to indicate the colors red, yellow, and purple.
For Canned Spanish Pimientos, Pimentos, or Red-Peppers.
Claims use since July 1, 1931.

Ser. No. 337,559. GENERAL VEGETABLE OIL COMPANY, INC., New York, N. Y. Filed May 6, 1933.

SHORTFLAKE

For Vegetable Shortening.
Claims use since Apr. 28, 1933.

Ser. No. 337,560. GENERAL VEGETABLE OIL COMPANY, INC., New York, N. Y. Filed May 6, 1933.

SWEETFLAKE

For Vegetable Shortening.
Claims use since Apr. 28, 1933.

Ser. No. 337,561. GENERAL VEGETABLE OIL COMPANY, INC., New York, N. Y. Filed May 6, 1933.

SNOSWEET

For Vegetable Shortening.
Claims use since Apr. 28, 1933.

Ser. No. 337,563. GENERAL VEGETABLE OIL COMPANY, INC., New York, N. Y. Filed May 6, 1933.

PUFFEX

For Vegetable Shortening.
Claims use since Apr. 28, 1933.

Ser. No. 337,564. GENERAL VEGETABLE OIL COMPANY, INC., New York, N. Y. Filed May 6, 1933.

NUTNAISE

For Vegetable Shortening.
Claims use since Apr. 28, 1933.

Ser. No. 337,584. I. H. NESTER, doing business as I. H. Nester & Co., Philadelphia, Pa. Filed May 8, 1933.

NESTCO

For Semi-Solid Buttermilk for Use as a Feed for Poultry and Animals.
Claims use since Apr. 23, 1931.

Ser. No. 337,589. ALEXANDER M. ASSIM, doing business as Alexander M. Assim & Co., Chicago, Ill. Filed May 8, 1933.

ARAB BOY

For Dried Fruits.
Claims use since Mar. 30, 1931.

Ser. No. 337,598. CANDY SPECIALTIES COMPANY, Chicago, Ill. Filed May 8, 1933.

GAS PIPES

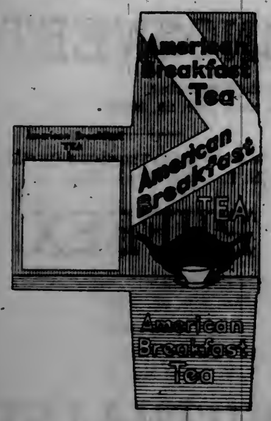
For Candy.
Claims use since Jan. 12, 1933.

Ser. No. 337,606. THE GOERZ FLOUR MILLS COMPANY, Newton, Kans. Filed May 8, 1933.

TOWN TAVERN

For Wheat Flour.
Claims use since Nov. 15, 1932.

Ser. No. 337,654. MAXWELL HOUSE PRODUCTS COMPANY, INC., New York, N. Y. Filed May 9, 1933.



The drawing is lined for red and blue. The words "American Breakfast Tea" are disclaimed apart from the mark shown in the drawing.
For Tea.
Claims use since Mar. 30, 1933.

Ser. No. 337,667. ALBERT EHLERS, INC., Brooklyn, N. Y. Filed May 10, 1933.

New Deal

For Tea and Coffee.
Claims use since November, 1932, on tea; and since May 6, 1933, on coffee.

Ser. No. 337,752. NICOLO MUSCO, New York, N. Y. Filed May 12, 1933.



No claim is made to any of the words appearing on the drawing except the word "Cerva."
For Olive Oil.
Claims use since June 1, 1930.

Ser. No. 337,854. LAWSON COFFEE CO. INC., Sumter, S. C. Filed May 15, 1933.

RED HOUSE

For Coffee and Tea.
Claims use since Jan. 1, 1928.

Ser. No. 337,935. J. ALLEN SMITH & CO., Knoxville, Tenn. Filed May 17, 1933.

NEW DEAL

For Plain and Self-Rising Flour.
Claims use since May 10, 1933.

CLASS 47

Wines

Ser. No. 336,832. JOSEPH DELLA MONICA, Brooklyn, N. Y. Filed Apr. 15, 1933.



For Champagne.
Claims use since Apr. 7, 1933.

Ser. No. 338,258. ROBERTSON BROS. & CO. LIMITED, London, England. Filed May 26, 1933.

PRIVATEER

For Wines.
Claims use since July 1, 1926.

Ser. No. 338,259. ROBERTSON BROS. & CO. LIMITED, London, England. Filed May 26, 1933.

PYRAMID

For Wines and Spirits.
Claims use since Feb. 19, 1930.

Ser. No. 338,260. ROBERTSON BROS. & CO. LIMITED, London, England. Filed May 26, 1933.

VALOR

For Wines.
Claims use since June 26, 1926.

Ser. No. 338,266. WILLIAMS & HUMBERT, London, England. Filed May 26, 1933.

CEDRO

For Wines.
Claims use since Apr. 23, 1926.

Ser. No. 338,270. WILLIAMS & HUMBERT, London, England. Filed May 26, 1933.

PANDO

For Sherry Wines.
Claims use since Mar. 7, 1884.

Ser. No. 338,327. MONOPOLE VINEYARDS CORPORATION, Rheims and New York, N. Y. Filed May 29, 1933.

OLD TAVERN

For Wines.
Claims use since May 18, 1933.

Ser. No. 338,328. MONOPOLE VINEYARDS CORPORATION, Rheims and New York, N. Y. Filed May 29, 1933.

M. V. C. EXPOSITION

For Wines.
Claims use since May 18, 1933.

Ser. No. 338,329. MONOPOLE VINEYARDS CORPORATION, Rheims and New York, N. Y. Filed May 29, 1933.

VILLA CABINET

For Wines.
Claims use since May 18, 1933.

Ser. No. 338,350. ANDERSON, DOBSON & CO. LIMITED, London, England. Filed May 31, 1933.

CAZADOR

For Wine.
Claims use since Nov. 10, 1924.

CLASS 48

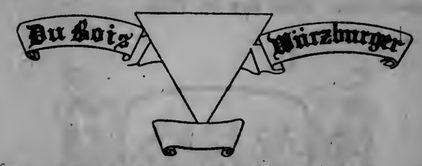
Malt Beverages and Liquors

Ser. No. 335,269. ARNES DRURY BREWERY, INC., Washington, D. C. Filed Feb. 25, 1933.

ROYAL PILSEN

No claim is made to the term "Pilsen" apart from the mark as shown although applicant waives no common law rights to the same.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Apr. 1, 1903.

Ser. No. 335,634. DU BOIS BREWING COMPANY, Du Bois, Pa. Filed Mar. 14, 1933.



No claim is made to the word "Würzburger" apart from the mark as shown.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since June, 1905.

Ser. No. 337,695. ROBERT H. GRAUPNER, Harrisburg, Pa. Filed May 11, 1933.

Silver Stock

No claim is made to the right to the exclusive use of the word "Stock" except in the setting and relation in which it appears in the drawing.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Apr. 7, 1933.

Ser. No. 337,981. LARGAY BREWING CO. INCORPORATED, Waterbury, Conn. Filed May 18, 1933.



No claim is made to any of the notations appearing on the drawing with the exception of the words "Red Fox",

the corporate name of applicant, and the monogram, and no claim is made to the representation of a label per se.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since May 8, 1933.

Ser. No. 338,109. PORT WASHINGTON BREWING COMPANY, Port Washington, Wis. Filed May 22, 1933.

Old Port

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since 1915.

Ser. No. 338,249. THE KOCH BEVERAGE CO., INC., Wapakoneta, Ohio. Filed May 26, 1933.



For Malt Beverages Having an Alcoholic Content not in Excess of That Permitted by Law.
Claims use since Jan. 15, 1933.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 333,308. THE BRITISH COLUMBIA DISTILLERY COMPANY LIMITED, Vancouver, British Columbia, Canada. Filed Dec. 22, 1932.

Monogram

For Rye Whisky and Gin.
Claims use since April, 1928.

Ser. No. 337,024. CONSOLIDATED DISTILLERIES, LIMITED, Montreal, Quebec, Canada. Filed Apr. 21, 1933.

"TWENTY GRAND"

For Whisky and Other Potable Distilled Liquors.
Claims use since April, 1932.

Ser. No. 338,202. THE SHERWOOD DISTILLING AND DISTRIBUTING COMPANY, Baltimore, Md. Filed May 24, 1933.



For Distilled Liquors, Particularly Whiskey.
Claims use since Oct. 7, 1924.

Ser. No. 338,205. THE SHERWOOD DISTILLING AND DISTRIBUTING COMPANY, Baltimore, Md. Filed May 24, 1933.

OLD HORSEY

For Distilled Liquors, Particularly Whiskey.
Claims use since Dec. 1, 1921.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 337,166. NEWTON PAPER COMPANY, Holyoke, Mass. Filed Apr. 25, 1933.

KOSTAT

For Pads Made of Paper and Felt.
Claims use since Apr. 15, 1933.

Ser. No. 337,420. THE CLOSURE SERVICE COMPANY, Toledo, Ohio. Filed May 8, 1933.

K-O

For Closure Caps for Bottles and Jars.
Claims use since Feb. 28, 1933.

Ser. No. 337,747. CLARENCE R. JOHNSON, Lumberville, Pa. Filed May 12, 1933.



No claim is made to the words "Bird House" or to the representation of a bird house apart from the mark shown in the drawing.
For Bird Houses.
Claims use since May 8, 1933.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 4, 1933

304,342. PLAIN FLOUR, CAKE FLOUR, AND SELF-RISING FLOUR. RED BAND COMPANY, INC., Johnson City, Tenn.
Filed December 12, 1932. Serial No. 333,014. PUBLISHED APRIL 18, 1933. Class 46.

304,343. MEN'S, WOMEN'S, AND CHILDREN'S SWEATERS; MEN'S, WOMEN'S, AND CHILDREN'S SWEAT SHIRTS; AND MEN'S, WOMEN'S, AND CHILDREN'S UNDERWEAR. GARDINER-WARRING COMPANY, INC., Florence, Ala.
Filed December 16, 1932. Serial No. 333,120. PUBLISHED APRIL 11, 1933. Class 39.

304,344. MILK, CREAM, BUTTER, EGGS, COTTAGE CHEESE, ICE CREAM, AND SKIM MILK. ADOHR CREAMERY COMPANY, Los Angeles, Calif.
Filed December 14, 1932. Serial No. 333,050. PUBLISHED APRIL 18, 1933. Class 46.

304,345. MEN'S OUTER GARMENTS—NAMELY, SUITS AND OVERCOATS. M. WILE & COMPANY, INC., Buffalo, N. Y.
Filed December 16, 1932. Serial No. 333,134. PUBLISHED FEBRUARY 21, 1933. Class 39.

304,346. MEN'S AND WOMEN'S SWEATERS AND MEN'S AND WOMEN'S SWEAT SHIRTS. GARDINER-WARRING COMPANY, INC., Florence, Ala.
Filed December 16, 1932. Serial No. 333,121. PUBLISHED APRIL 11, 1933. Class 39.

304,347. SHIRTS—NAMELY, DRESS, NEGLIGEE, AND WORK SHIRTS, COLLARS, AND UNDERWEAR, PARTICULARLY SHORTS AND PAJAMAS. HALL, HARTWELL & CO. INC., Troy, N. Y.
Filed December 29, 1932. Serial No. 333,476. PUBLISHED APRIL 18, 1933. Class 39.

304,348. SWEATERS FOR MEN, WOMEN, AND CHILDREN AND DRESSES FOR WOMEN AND CHILDREN. PEERLESS SPORT APPAREL CO. INC., New York, N. Y.
Filed December 27, 1932. Serial No. 333,450. PUBLISHED APRIL 4, 1933. Class 39.

304,349. BRAKE LININGS. BRAKE LININGS LIMITED, Buxton, England.
Filed January 12, 1933. Serial No. 333,847. PUBLISHED APRIL 18, 1933. Class 35.

304,350. POISON IN PASTE FORM FOR RATS, MICE, SQUIRRELS, GOPHERS, PRAIRIE DOGS, COYOTES, WOLVES; FOXES, LAND CRABS, COCK ROACHES, WATER BUGS, AND CROTON BUGS. STEARNS' ELECTRIC PASTE COMPANY, INC., Chicago, Ill.
Filed December 29, 1932. Serial No. 333,486. PUBLISHED MARCH 28, 1933. Class 6.

304,351. JUNIORS', MISSES', AND WOMEN'S COATS. MORRIS NAGEL & CO. INC. OF MANHATTAN, New York, N. Y.
Filed January 24, 1933. Serial No. 334,287. PUBLISHED APRIL 18, 1933. Class 39.

304,352. WOMEN'S, MISSES', AND CHILDREN'S DRESSES, PAJAMAS; UNIFORMS FOR NURSES, WAITRESSES, CLERKS, BEAUTY PARLOR OPERATORS, ELEVATOR OPERATORS; SMOCKS AND UTILITY APRONS. CHIC MANUFACTURING COMPANY, Peoria, Ill.
Filed January 16, 1933. Serial No. 333,965. PUBLISHED APRIL 4, 1933. Class 39.

304,353. PANTIES, DANSETTES, CHEMISES, NIGHT GOWNS, PAJAMAS, AND SLIPS. STYLE-CRAFT LINGERIE, INC., New York, N. Y.
Filed January 28, 1933. Serial No. 334,449. PUBLISHED APRIL 4, 1933. Class 39.

304,354. REVOLVING CABINETS PIVOTED ON A DOOR, WALL, OR OTHER SUPPORTING SURFACE. HENRY A. MANZ, New York, N. Y.
Filed January 27, 1933. Serial No. 334,400. PUBLISHED APRIL 18, 1933. Class 32.

304,355. MEN'S AND BOYS' COATS AND PANTS, WORK SHIRTS. BELLMORE MANUFACTURING COMPANY, Gainesville, Ga.
Filed January 30, 1933. Serial No. 334,457. PUBLISHED APRIL 11, 1933. Class 39.

304,356. GARMENT FOR INFANTS AND VERY YOUNG CHILDREN. X-OTIC, INCORPORATED, New York, N. Y.
Filed January 28, 1933. Serial No. 334,452. PUBLISHED APRIL 11, 1933. Class 39.

304,357. RAZOR BLADES. BROCK, KURIAN & COMPANY, Stamford, Conn.
Filed January 31, 1933. Serial No. 334,484. PUBLISHED APRIL 18, 1933. Class 23.

304,358. MEN'S CLOTHING AND LADIES' READY-TO-WEAR APPAREL—NAMELY, MEN'S OVERCOATS, TOP COATS, AND SUITS, AND LADIES' COATS, SUITS, AND DRESSES. MORRIS B. SACHS, Chicago, Ill.
Filed January 30, 1933. Serial No. 334,482. PUBLISHED APRIL 4, 1933. Class 39.

304,359. CAMERAS AND SENSITIZED FILMS FOR PHOTOGRAPHIC USE. ATLAS SUPPLY COMPANY, Wilmington, Del., and Newark, N. J.
Filed February 2, 1933. Serial No. 334,552. PUBLISHED APRIL 18, 1933. Class 26.

304,360. SAFETY RAZOR BLADES. MARATHON RAZOR BLADE CO., INC., Irvington, N. J.
Filed January 31, 1933. Serial No. 334,493. PUBLISHED APRIL 18, 1933. Class 23.

304,361. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY; UNDERWEAR MADE OF KNITTED, NETTED, AND TEXTILE FABRICS; SWEATERS; AND MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS. ISAAC GLASER, doing business as H. Glaser & Son, Boston, Mass.
Filed February 3, 1933. Serial No. 334,602. PUBLISHED APRIL 4, 1933. Class 39.

304,362. MEN'S SUITS, OVERCOATS, TOPCOATS, AND TROUSERS. ISIDORE GROSSMAN, doing business as Grossman Clothing Co., New York, N. Y.
Filed February 2, 1933. Serial No. 334,559. PUBLISHED APRIL 4, 1933. Class 39.

304,363. [WITHDRAWN.]

304,364. [WITHDRAWN.]

304,365. MEN'S, WOMEN'S, AND CHILDREN'S UNDERWEAR. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed February 28, 1933. Serial No. 335,349. PUBLISHED APRIL 18, 1933. Class 39.

304,366. RUBBER AND COMPOSITION WASHERS, GASKETS, AND PACKINGS. JENKINS BROS., New York, N. Y.
Filed February 27, 1933. Serial No. 335,322. PUBLISHED APRIL 18, 1933. Class 35.

304,367. RUBBER AND COMPOSITION WASHERS, GASKETS, AND PACKINGS. JENKINS BROS., New York, N. Y.
Filed February 27, 1933. Serial No. 335,321. PUBLISHED APRIL 18, 1933. Class 35.

304,368. BRAKE LININGS. ALLBESTOS CORPORATION, Philadelphia, Pa.
Filed February 24, 1933. Serial No. 335,226. PUBLISHED APRIL 18, 1933. Class 35.

304,369. RAZORS AND RAZOR BLADES. ALDEN KIMBALL, New York, N. Y.
Filed February 23, 1933. Serial No. 335,203. PUBLISHED APRIL 18, 1933. Class 23.

304,370. MEN'S AND WOMEN'S UNDERWEAR. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed February 23, 1933. Serial No. 335,189. PUBLISHED APRIL 11, 1933. Class 39.

304,371. MEN'S AND WOMEN'S UNDERWEAR. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed February 23, 1933. Serial No. 335,188. PUBLISHED APRIL 11, 1933. Class 39.

304,372. SAFETY RAZOR BLADES. MARATHON RAZOR BLADE CO., INC., Irvington, N. J.
Filed February 20, 1933. Serial No. 335,126. PUBLISHED APRIL 18, 1933. Class 23.

304,373. MISSES' AND LADIES' COATS. SIEGEL BROTHERS, INC., New York, N. Y.
Filed February 17, 1933. Serial No. 335,075. PUBLISHED APRIL 11, 1933. Class 39.

304,374. BATHING SUITS. CHARLES N. WINSHIP, doing business as Winship, Boit & Co., Wakefield, Mass.
Filed February 16, 1933. Serial No. 335,046. PUBLISHED APRIL 11, 1933. Class 39.

304,375. SUITCASES, HAT BOXES FOR LUGGAGE PURPOSES, AND WARDROBE HAND LUGGAGE. HARTMANN TRUNK COMPANY, Racine, Wis.
Filed February 17, 1933. Serial No. 335,061. PUBLISHED APRIL 18, 1933. Class 3.

304,376. WINDOW SHADE ROLLERS. STEWART HARTSHORN COMPANY, New York, N. Y.
Filed February 13, 1933. Serial No. 334,938. PUBLISHED APRIL 18, 1933. Class 32.

304,377. CUSHION SPRINGS, BOX SPRINGS, INNER MATTRESS SPRINGS, UPHOLSTERY SPRINGS, BED SPRINGS, SEAT SPRING CONSTRUCTIONS. C. L. GREENO CO., Los Angeles, Calif.
Filed February 11, 1933. Serial No. 334,897. PUBLISHED APRIL 18, 1933. Class 32.

304,378. LADIES' UNDERGARMENTS—NAMELY, SLIPS. GARFINKEL & RITTER, New York, N. Y.
Filed February 10, 1933. Serial No. 334,832. PUBLISHED APRIL 4, 1933. Class 39.

304,379. CHILDREN'S AND GIRLS' BLOUSES AND DRESSES. BERGER & WEINER, INC., New York, N. Y.
Filed February 11, 1933. Serial No. 334,860. PUBLISHED APRIL 11, 1933. Class 39.

304,380. NECKTIES. BOTANY WORSTED MILLS, Passaic, N. J.
Filed February 9, 1933. Serial No. 334,789. PUBLISHED APRIL 11, 1933. Class 39.

304,381. WOMEN'S, MISSES', AND CHILDREN'S DRESSES, PAJAMAS, BLOUSES, VESTS, UNDERWEAR; AND BATHING SUITS. U-NO-JAUNTY DRESS, INC., New York, N. Y.
Filed February 8, 1933. Serial No. 334,779. PUBLISHED APRIL 4, 1933. Class 39.

304,382. MEN'S SUITS. BAKER CLOTHES, INC., Philadelphia, Pa.
Filed February 7, 1933. Serial No. 334,728. PUBLISHED APRIL 11, 1933. Class 39.

304,383. WOMEN'S HOSIERY. FRANK HIRSHFIELD, Mount Vernon, N. Y.
Filed February 7, 1933. Serial No. 334,708. PUBLISHED APRIL 11, 1933. Class 39.

304,384. CHEWING GUM. WM. WRIGLEY JR. COMPANY, Chicago, Ill.
Filed February 3, 1933. Serial No. 334,626. PUBLISHED APRIL 4, 1933. Class 46.

304,385. MOLDING COMPOSITION COMPRISING CELLULOSE ACETATE AND SUITABLE PLASTICIZERS AND, IN SOME CASES, PIGMENTS, AND BEING IN THE FORM OF SLABS, SHEETS, GRANULES, OR POWDER. TENNESSEE EASTMAN CORPORATION, Kingsport, Tenn.
Filed February 3, 1933. Serial No. 334,622. PUBLISHED APRIL 18, 1933. Class 1.

304,386. WOMEN'S AND GIRLS' COATS. STERN-SLEGMAN PRINT COMPANY, Kansas City, Mo.
Filed February 15, 1932. Serial No. 324,195. PUBLISHED OCTOBER 4, 1932. Class 39.

304,387. DRESS AND NEGLIGEE SHIRTS, PAJAMAS, MEN'S UNDERWEAR, HOSIERY, AND NECKTIES. WILSON BROTHERS, Chicago, Ill.
Filed June 6, 1931. Serial No. 315,513. PUBLISHED APRIL 18, 1933. Class 39.

304,388. SOAPS, CLEANSERS, AND CLEANING COMPOUNDS—NAMELY, A SOAP MADE PRINCIPALLY OF VEGETABLE FATS FOR GENERAL CHINAWARE, GLASSWARE, POTS, PANS, AND BATH ROOM USE. MORRIS WISHNETZKY, New York, N. Y.
Filed September 17, 1931. Serial No. 319,162. PUBLISHED NOVEMBER 24, 1931. Class 4.

304,389. SOAPS, CLEANSERS, AND CLEANING COMPOUNDS—NAMELY, A SOAP MADE PRINCIPALLY FROM VEGETABLE FATS FOR GENERAL CHINAWARE, GLASSWARE, POTS, PANS, AND BATH ROOM USE. MORRIS WISHNETZKY, New York, N. Y.
Filed September 17, 1931. Serial No. 319,163. PUBLISHED NOVEMBER 24, 1931. Class 4.

304,390. MECHANICAL RAZOR BLADE SHARPENERS. THE MORRIS-COLLIER CORPORATION, Wilmington, Del., and Monett, Mo.
Filed March 10, 1932. Serial No. 325,007. PUBLISHED APRIL 18, 1933. Class 23.

304,391. SOAPS, CLEANSERS, AND CLEANING COMPOUNDS. MORRIS WISHNETZKY, New York, N. Y.
Filed September 17, 1931. Serial No. 319,161. PUBLISHED NOVEMBER 24, 1931. Class 4.

304,392. ANTHRACITE COAL. WOLF COLLIERIES COMPANY, INC., Freeland, Pa.
Filed April 29, 1932. Serial No. 326,627. PUBLISHED APRIL 18, 1933. Class 1.

304,393. SPANISH STYLE RICE. FRED J. SILK, doing business as Silk Packing Company, Los Angeles, Calif.
Filed April 18, 1932. Serial No. 326,236. PUBLISHED DECEMBER 6, 1932. Class 46.

304,394. COAL. THE KOPPERS COAL COMPANY, Pittsburgh, Pa.
Filed June 30, 1932. Serial No. 328,434. PUBLISHED APRIL 18, 1933. Class 1.

304,395. RUBBER ADHESIVE. THE NAUGATUCK CHEMICAL COMPANY, New York, N. Y.
Filed June 10, 1932. Serial No. 327,884. PUBLISHED APRIL 18, 1933. Class 5.

304,396. MEN'S DRESS SHIRTS. WILSON BROTHERS, Chicago, Ill.
Filed August 18, 1932. Serial No. 329,543. PUBLISHED APRIL 18, 1933. Class 39.

304,397. AUTOMOBILE TIRES. WESTERN AUTO SUPPLY AGENCY OF LOS ANGELES, Los Angeles, Calif.
Filed August 8, 1932. Serial No. 329,412. PUBLISHED APRIL 18, 1933. Class 35.

304,398. MEN'S CLOTHING—NAMELY, MEN'S SUITS, OVERCOATS, AND TOPCOATS. GORMAN-NATHAN CO. INC., New York, N. Y.
Filed September 28, 1932. Serial No. 330,744. PUBLISHED APRIL 4, 1933. Class 39.

304,399. HOSIERY. QUAKER HOSIERY COMPANY, INC., Philadelphia, Pa.
Filed August 29, 1932. Serial No. 329,961. PUBLISHED JANUARY 3, 1933. Class 39.

304,400. BREAD (RYE BREAD AND PUMPERNICKEL). GEO. F. STUHMER & COMPANY, Brooklyn, N. Y.
Filed October 5, 1932. Serial No. 330,973. PUBLISHED MARCH 28, 1933. Class 46.

304,401. ICE PICKS, KITCHEN FORKS, CAKE TURNERS, ETC. UTILITY MFG. CO. INC., Baltimore, Md.
Filed October 4, 1932. Serial No. 330,940. PUBLISHED APRIL 18, 1933. Class 23.

304,402. GROUND, MANUFACTURED, AND RECONDITIONED KNIVES, SHEARS, EDGE TOOLS—TO-WIT, KNIFE BLADES, TINNER SNIPS, AND HOLLOW GROUND KNIVES. FREDERICK W. FRANZMANN, doing business as The Boston Grinding Company, Cuyahoga Falls, Ohio.
Filed November 22, 1932. Serial No. 332,393. PUBLISHED APRIL 18, 1933. Class 23.

304,403. GREEN COFFEE. J. ARON & COMPANY, INC., New York, N. Y.
Filed November 8, 1932. Serial No. 331,982. PUBLISHED APRIL 18, 1933. Class 46.

304,404. CHEMICAL PREPARATION. HERBERT R. ISENBURGER, New York, N. Y.
Filed December 7, 1932. Serial No. 332,846. PUBLISHED APRIL 18, 1933. Class 1.

304,405. WOMEN'S DRESSES, SUITS, AND COATS. CAROLE, INC., Chicago, Ill.
Filed December 1, 1932. Serial No. 332,643. PUBLISHED APRIL 18, 1933. Class 39.

304,406. UNDERWEAR, HOSIERY, AND BATHING SUITS FOR MEN, WOMEN, AND CHILDREN. A. M. WEBB & CO. INC., New York, N. Y.
Filed December 9, 1932. Serial No. 332,937. PUBLISHED APRIL 11, 1933. Class 39.

304,407. UNDERWEAR SHORTS. A. M. WEBB & CO. INC., New York, N. Y.
Filed December 9, 1932. Serial No. 332,936. PUBLISHED APRIL 11, 1933. Class 39.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]
THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

304,408. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada. Filed May 1, 1933. Serial No. 337,369.

GLENMORE

For Whiskey and Gin.
Claims use since Sept. 1, 1926.

304,409. (CLASS 39. CLOTHING.) GIMBEL BROTHERS, INC., New York, N. Y. Filed Apr. 11, 1933. Serial No. 336,644.

Rittenhouse

For Men's Suits, Coats, Dress, Negligee, and Work Shirts, Underwear, Hose, Men's Unionsuits, Shirts and Shorts, Knit and Wool Underwear, Neckties, and Shoes Made of Leather, Rubber, Fabric, and Combinations Thereof.
Claims use since Jan. 15, 1928.

304,410. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada. Filed May 1, 1933. Serial No. 337,371.

Jessie Moore

For Whiskey and Gin.
Claims use since Apr. 19, 1929.

304,411. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) MACLEAY, DUFF & CO., Glasgow, Scotland. Filed Apr. 11, 1933. Serial No. 336,655.

DUFF'S

For Whisky.
Claims use since Sept. 8, 1904.

304,412. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) THE SHERWOOD DISTILLING AND DISTRIBUTING COMPANY, Baltimore, Md. Filed May 24, 1933. Serial No. 338,204.

OLD BRIDGEPORT

For Whiskey.
Claims use since Oct. 7, 1924.

304,413. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Filed May 20, 1933. Serial No. 338,026.

GOLD COAST

For Soap.
Claims use since Jan. 14, 1932.

304,414. (CLASS 25. LOCKS AND SAFES.) DIEBOLD SAFE & LOCK CO., Canton, Ohio. Filed Apr. 1, 1932. Serial No. 325,708.

REKORDESK

For Safes and Metal Structures in the Nature of Safes and Parts Thereof.
Claims use since Feb. 5, 1932.

304,415. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) HARRY BETTONEY, doing business as The Cundy-Bettoney Company, Boston, Mass. Filed May 10, 1933. Serial No. 337,869.

COLUMBIA MODEL

For Soprano Clarinets, Bass and Alto Clarinets, Flutes, Piccolos, Oboes, and Bassoons.
Claims use since Jan. 1, 1925.

304,416. (CLASS 39. CLOTHING.) THAYER MCNEIL COMPANY, Boston, Mass. Filed Jan. 18, 1932. Serial No. 323,150.

SAFE-T-ARCH

For Boots and Shoes of Leather.
Claims use since Nov. 2, 1931.

304,417. (CLASS 39. CLOTHING.) SOCIÉTÉ ANONYME LUCILE PARAY, Paris, France. Filed Oct. 27, 1931. Serial No. 320,517.

made in France
LUCILE PARAY
8. PLACE DE LA MADELEINE
PARIS

For Ready-Made Garments for Women, Misses and Children, Comprising: Dresses and Cloaks, of Fabric and of Fabric Trimmed with Fur; Embroidered Dresses and Neckpieces of Embroidery; Pajamas; Raincoats of Rubberized Fabric; Chemises, Pantaloons, Brassières and Petticoats, and Combinations Thereof; Lingerie Dresses; and Belts of Fabric and of Morocco Leather and Imitation Leather.
Claims use since Aug. 1, 1928.

304,418. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHIN LEE CO., INC., New York, N. Y. Filed May 4, 1932. Serial No. 326,739.

CHIN LEE'S

For Chow Mein, Chop Sooy.
Claims use since Mar. 1, 1922.

304,419. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHIN LEE CO., INC., New York, N. Y. Filed May 4, 1932. Serial No. 326,738.

CHIN'S

For Chow Mein, Chop Sooy, Beef with Peppers, Chinese Rice Cakes, Chinese Almond Cakes, Chinese Fried Rice, Chinese Fried Noodles.
Claims use since Mar. 1, 1922.

304,420. (CLASS 31. FILTERS AND REFRIGERATORS.) THE RUDOLPH WURLITZER MANUFACTURING COMPANY, North Tonawanda, N. Y. Filed May 17, 1932. Serial No. 327,207.

CHIL-WEL

For Refrigerators and Ice Boxes and Parts Thereof.
Claims use since Apr. 15, 1932.

304,421. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MCWANE CAST IRON PIPE COMPANY, Birmingham, Ala. Filed May 16, 1932. Serial No. 327,160.

BOLTITE

For Metal Pipe and Pipe Fittings.
Claims use since Mar. 19, 1932.

304,422. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed May 23, 1932. Serial No. 327,349.

TAIL-HOOK

For Artificial Bait.
Claims use since May 5, 1932.

304,423. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed May 23, 1932. Serial No. 327,348.

FLOAT-RITE

For Artificial Bait—Namely, Bass and Trout Bugs.
Claims use since May 13, 1932.

304,424. (CLASS 39. CLOTHING.) HANES HOSIERY MILLS CO., Winston-Salem, N. C. Filed May 27, 1932. Serial No. 327,506.

CHALKEE

For Hosiery.
Claims use since May 18, 1932.

304,425. (CLASS 37. PAPER AND STATIONERY.) L. L. BROWN PAPER COMPANY, Adams, Mass. Filed May 27, 1932. Serial No. 327,499.

"First in LASTING Quality"

For Writing Paper.
Claims use since May 3, 1932.

304,426. (CLASS 45. BEVERAGES, NONALCOHOLIC.) REH-BURK, INCORPORATED, Boston, Mass. Filed June 28, 1932. Serial No. 328,346.

The Real McCoy

For Non-Alcoholic, Maltless Beverages and Flavoring for Soft Drinks.
Claims use since May 13, 1932.

304,427. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) RAYMOND HEALY, New York, N. Y. Filed June 27, 1932. Serial No. 328,330.

STAY WHITE

For Court Marking Tapes and Tennis Net Covers.
Claims use since May 1, 1932.

304,428. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) H. C. HILL MFG. CO., Los Angeles, Calif. Filed Aug. 13, 1932. Serial No. 329,529.

CHAIN-WAY

For Lingerie Shoulder Strap Holders.
Claims use since March, 1929.

304,429. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HABIRSHAW CABLE AND WIRE CORPORATION, New York, N. Y. Filed July 26, 1932. Serial No. 329,083.

NOMETAL

For Electric Cables.
Claims use since May 14, 1932.

304,430. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) GEMLOID CORPORATION, New York, N. Y. Filed Aug. 26, 1932. Serial No. 329,854.

ENAMELOID

For Enameled Sheets Showing Cloisonné Effects Out of Which Various Articles May be Made.
Claims use since Apr. 1, 1931.

304,431. (CLASS 39. CLOTHING.) GEO. E. KEITH COMPANY, Brockton, Mass. Filed Oct. 24, 1932. Serial No. 331,504.

CABANA

For Shoes Principally of Leather, Shoes Principally of Fabric, and Shoes of a Combination of Leather and Fabric.
Claims use since Apr. 15, 1932.

304,432. (CLASS 39. CLOTHING.) MOSES DOBRIN, doing business as M. Dobrin Company, Boston, Mass. Filed Dec. 31, 1932. Serial No. 333,549.

Bobby Atkins

For Leather Shoes.
Claims use since Sept. 1, 1931.

304,433. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) ERICSSON SAFETY RAZOR CO. INC., Brooklyn, N. Y. Filed Dec. 9, 1932. Serial No. 332,916.

ERICSSON
SPECIAL

For Safety Razors, Razor Blade Holders, and Razor Blades.
Claims use since January, 1932.

304,434. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. C. BRADEN, LTD., Pasadena, Calif. Filed Feb. 18, 1933. Serial No. 335,150.

A.C. Braden

For Salmon, Boneless Sardines, Lobster, Tuna, Sweet Pickled Watermelon, California Fruit Cake, Strawberry and Pineapple Preserves, Sweet Pickled Pineapple, Sweet Pickled Cantaloup, Sweet Pickled Medley, Sweet Relish, Brandy Syrup, Raspberry Preserves, Strawberry Preserves, Red Currant Jelly, Coffee, Crab Cocktail, Shrimp, Honey, Grenadine Syrup, Pineapple Syrup, Pomegranate Juice, Chocolate Syrup, Sherry Syrup, Strawberry Syrup, Selected Mansanilla Olives, Spanish Colossal Queen Olives, Royal Princess Olives, Stuffed Queen Olives, Stuffed Mansanilla Olives, Stuffed Apricots in Grenadine, Stuffed Oranges in Grenadine, Stuffed Peaches in Grenadine, Sweet Pearl Onions, Sweet Mustard Pickles, Pickled Walnuts, Home Style Pickles, Fruit Cocktail in Brandy Sauce, Cherries in Brandy Sauce, Chili Sauce, Mince Meat, Pineapple in Brandy Sauce, Fruits for Salad in Brandy Sauce, Muscatel Wine Jelly, Guava Jelly, Port Wine Jelly, Claret Wine Jelly, Sherry Wine Jelly, Quince Jelly, Passion Fruit Marmalade, Crabapple Jelly, Loganberry Jelly, Apple Lemon Jelly, Blackberry Jelly, Mint Jelly, Raspberry and Apple Jelly, Pomegranate Jelly, Plum Preserves, Tomato Preserves, Apricot Preserves, Figs (whole) Preserves, Loganberry Preserves, Cranberry Sauce, Maraschino Cherries, Cherry Preserves, Peach Preserves, Stem Ginger, Grapefruit Marmalade, Grape Butter, Orange Marmalade, Fruit Cocktail, Sweet Pickled Nectarine, Sweet Pickled Pears, Sweet Pickled Grape Fruit, Sweet Pickled Peaches, Sweet Pickled Plums, Sweet Pickled Figs, Sweet Pickled Apricots, Sweet Pickled Dates, Stuffed Lemons in Grenadine, Sauce for Meats, Fish, Fowl, Soups, Cocktails, Salads, Etc.; Bing Cherries, Pineapple, Sliced, Sliced Cling Peaches, Blackberry Preserves; Fruits for Salad, Kadota Figs, Tomato Juice, Ripe Olives, Bartlett Pears, Apricots, Peeled; Clingstone Peaches, Whole Kern Golden Bantam Corn, Golden Bantam Corn, Tomatoes, Royal Anne Cherries, Artichoke Hearts, Dietetic Bartlett Pears, Unsweetened Peaches, Dietetic Midget Beets, Sauer Kraut, Baby Lima Beans, Vegetable Salad, Dietetic Stringless Beans, Country Gentleman Corn, Baby Giant Peas, Apple Butter, Asparagus Tips, Succotash, Mammoth Peeled Asparagus, Baked Apples, Bartlett Pears.
Claims use since Sept. 1, 1929.

304,435. (CLASS 39. CLOTHING.) DOLGEVILLE SLIPPER COMPANY, INC., Dolgeville, N. Y. Filed Feb. 4, 1933. Serial No. 334,641.

OUTINGSTILES

For Shoes and Slippers of Leather, Fabric, and/or Combinations Thereof.
Claims use since May 1, 1931.

304,436. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BIRD MACHINE COMPANY, South Walpole, Mass. Filed Feb. 24, 1933. Serial No. 335,228.

HI-ANGLE

For Doctors for Calenders, Driers, Press Rolls, and the Like.
Claims use since Sept. 1, 1931.

304,437. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. C. BRADEN, LTD., doing business as Anita Brown Preserving Co., Pasadena, Calif. Filed Feb. 18, 1933. Serial No. 335,151.

Anita Brown's

For Crabapple Jelly, Stuffed Apricots in Grenadine Syrup, Stuffed Lemons in Grenadine Syrup, Sweet Pickled Apricots, Apricot and Pineapple Preserves, Raspberry Preserves, Strawberry Preserves, Whole Fig Preserves, Whole Peeled Peaches, Red Currant Jelly, Chili Sauce, Stuffed Oranges in Grenadine Syrup, Sweet Pickled Watermelon Rind, California Fruit Cake, Sandwich Spread, Sweet Pickled Crabapples, Grapefruit Rind, Sweet Pickled Nectarine, Sweet Pickled Pineapple, Stem Ginger Preserves, Sweet Pickled Dates, Sweet Pickled Plum (Satsuma), Pears in Brandy Syrup, Sweet Pickled Pears, Apricots in Brandy Syrup, Fruit Cocktail in Brandy Syrup, Sweet Pickled Watermelon, Tomato Preserves, Meat Sauce, Concord Grape Jelly, Peaches in Brandy Syrup, Sweet Pickled Peaches, Figs, Stuffed Peaches in Grenadine Syrup.
Claims use since Sept. 1, 1930.

304,438. (CLASS 39. CLOTHING.) INTERNATIONAL SHOE CO., doing business as Friedman-Shelby, St. Louis, Mo. Filed Apr. 7, 1933. Serial No. 336,533.

Grace Walker

For Boots and Shoes of Leather, Fabric, and/or Combinations Thereof.
Claims use since Oct. 10, 1930.

304,439. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ALFRED S. EISEMAN, New York, N. Y., Filed May 18, 1932. Serial No. 327,217.

Suttonstripes

For Piece Goods of Cotton, Silk, Linen, and/or Rayon or Combinations Thereof; Dish Cloths, Hair Nets, Handkerchiefs, Ribbons, Scarfs for Furniture, Doilies, Centerpieces, Table Cloths, Napkins, Textile Diapers, Wash Cloths; Blankets, Rugs, Carpets, Floor Cloths, and Towels, All Made of Knitted, Netted, and/or Textile Fabrics.
Claims use since Apr. 24, 1932.

TRADE-MARK REGISTRATIONS RENEWED

40,229. CERTAIN NAMED HOUSEHOLD FURNITURE. Registered April 28, 1903. ESTEY MANUFACTURING COMPANY, Owosso, Mich., a Corporation of Michigan. Renewed April 28, 1933.

40,417. COMBINED LISTING AND ADDING MACHINES. Registered May 19, 1903. FELT & TARRANT MANUFACTURING COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed May 19, 1933.

41,338. A PURGATIVE SYRUP. Registered October 20, 1903. CALIFORNIA FIG SYRUP CO., San Francisco, Calif. Renewed October 20, 1933, to Sterling Products (Incorporated), Wheeling, W. Va., a Corporation of West Virginia, assignee by mesne assignments.

41,339. A PURGATIVE SYRUP. Registered October 20, 1903. CALIFORNIA FIG SYRUP CO., San Francisco, Calif. Renewed October 20, 1933, to Sterling Products (Incorporated), Wheeling, W. Va., a Corporation of West Virginia, assignee by mesne assignments.

91,669. MATCHES. Registered May 20, 1913. JÖNKÖPINGS OCH VULCANS TÄNDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden, a Corporation of Sweden. Renewed May 20, 1933.

91,690. LEATHER SHOES. Registered May 20, 1913. ABRAHAM POSNER. Renewed May 20, 1933, to Dr. A. Posner Shoes, Inc., New York, N. Y., a Corporation of New York, assignee.

91,725. GARMENT-FASTENERS KNOWN AS SNAP-BUTTONS. Registered May 20, 1913. WALDES & Co., Prague-Wrschowitz, Austria-Hungary. Renewed May 20, 1933, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a Corporation of New York, assignee by mesne assignments.

91,823. SNAP-BUTTONS USED AS GARMENT-FASTENERS. Registered May 27, 1913. WALDES & Co., Prague-Wrschowitz, Austria-Hungary. Renewed May 27, 1933, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a Corporation of New York, assignee by mesne assignments.

91,826. GARMENT-FASTENERS KNOWN AS SNAP-BUTTONS. Registered May 27, 1913. WALDES & Co., Prague-Wrschowitz, Austria-Hungary. Renewed May 27, 1933, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a Corporation of New York, assignee by mesne assignments.

91,987. MATCHES. Registered June 10, 1913. NITEDALS TÆNDSTIKFABRIK. Gronvold, near Christiana, Norway. Renewed June 10, 1933, to Bryn-Halden & Nitedals Tændstikfabrik A/S, Bryn, near Oslo, Norway, a Corporation of Norway, assignee.

91,992. MATCHES. Registered June 10, 1913. NITEDALS TÆNDSTIKFABRIK. Gronvold, near Christiana, Norway. Renewed June 10, 1933, to Bryn-Halden & Nitedals Tændstikfabrik A/S, Bryn, near Oslo, Norway, a Corporation of Norway, assignee.

92,123. CERTAIN CHEMICALS AND PHARMACEUTICAL PREPARATIONS. Registered June 17, 1913. PRICHARD & CONSTANCE (WHOLESALE) LTD., London, England. Renewed June 17, 1933, to Prichard & Constance, Inc., New York, N. Y., a Corporation of New York, assignee.

92,258. CERTAIN NAMED CLOTHING FOR MEN, YOUTHS, BOYS, WOMEN, AND CHILDREN. Registered June 24, 1913. PHILLIPS-HENDON CO. Renewed June 24, 1933, to Phillips-Lester Manufacturing Co., Inc., Birmingham, Ala., a Corporation of Alabama, assignee.

92,545. COFFEE. Registered July 15, 1913. J. A. FOLGER & COMPANY, Kansas City, Mo., a Corporation of Nevada. Renewed July 15, 1933.

92,546. COFFEE. Registered July 15, 1913. J. A. FOLGER & COMPANY, Kansas City, Mo., a Corporation of Nevada. Renewed July 15, 1933.

92,547. COFFEE. Registered July 15, 1913. J. A. FOLGER & COMPANY, Kansas City, Mo., a Corporation of Nevada. Renewed July 15, 1933.

92,659. SOLUBLE CHEMICAL COMPOUND FOR USE AS A DETERGENT. Registered July 22, 1913. THE ELECTRIC SMELTING AND ALUMINUM COMPANY, Lockport, N. Y. Renewed July 22, 1933, to The Cowles Detergent Co., Cleveland, Ohio, a Corporation of Ohio, assignee.

92,679. LAGER-BEER. Registered July 22, 1913. JUNG BREWING COMPANY, Milwaukee, Wis., a Corporation of Wisconsin. Renewed July 22, 1933.

92,823. DOORS, SASH, AND MOLDINGS. Registered July 29, 1913. PACIFIC MUTUAL DOOR COMPANY, Tacoma, Wash., a Corporation of Washington. Renewed July 29, 1933.

92,906. MATCHES. Registered August 5, 1913. NITEDALS TÆNDSTIKFABRIK, Gronvold, near Christiana, Norway. Renewed August 5, 1933, to Bryn-Halden & Nitedals Tændstikfabrik A/S, Bryn, near Oslo, Norway, a Corporation of Norway, assignee.

93,379. A REMEDY FOR GENITO-URINARY DISEASES. Registered September 9, 1913. REESE CHEMICAL COMPANY. Renewed September 9, 1933, to The Reese Chemical Company, Cleveland, Ohio, a Corporation of Ohio, assignee.

93,826. FRUIT-CAKE. Registered October 21, 1913. COLLIN STREET BAKERY, Corsicana, Tex., a Corporation of Texas. Renewed October 21, 1933.

94,007. CERTAIN NAMED FOODS. Registered October 28, 1913. JOHN F. LALLA COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed October 28, 1933.

94,057. OILED CLOTHING. Registered November 4, 1913. J. F. CARTER COMPANY, Portland, Me., and Beverly, Mass. Renewed November 4, 1933, to A. J. Tower Company, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

94,058. OILED CLOTHING. Registered November 4, 1913. J. F. CARTER COMPANY, Portland, Maine, and Beverly, Mass. Renewed November 4, 1933, to A. J. Tower Company, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

94,059. OILED CLOTHING. Registered November 4, 1913. J. F. CARTER COMPANY, Portland, Maine, and Beverly, Mass. Renewed November 4, 1933, to A. J. Tower Company, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

94,099. RUBBER PIPE-COUPLING RINGS, PISTON-PACKING, SHEET-PACKING, PUMP-VALVES, STEAM-HOSE, AND OIL-HOSE. Registered November 4, 1913. THE MANHATTAN RUBBER MFG. CO. Renewed November 4, 1933, to Raybestos-Manhattan, Inc., Passaic, N. J., a Corporation of New Jersey, assignee.

94,133. REVOLVING DOORS. Registered November 4, 1913. VAN KANNEL REVOLVING DOOR COMPANY, New York, N. Y., a Corporation of New Jersey. Renewed November 4, 1933.

94,207. BLENDED COFFEE. Registered November 11, 1913. WILLIAM S. SCULL COMPANY, Camden, N. J., a Corporation of New Jersey. Renewed November 11, 1933.

94,245. A DENTIFRICE. Registered November 18, 1913. ROBERT LICH, Sutton, Nebr. Renewed November 18, 1933, to Robert Lich, Fresno, Calif.

LABELS

REGISTERED JULY 4, 1933

42,347.—*Title:* QUEEN'S TASTE. For Bread. BENTECO BAKING COMPANY, Burlington, Iowa. Published May 20, 1932.

42,348.—*Title:* BROOKLYN BEER. For Beer. BROOKLYN BOTTLING & DISTRIBUTING CO., INC., Brooklyn, N. Y. Published May 15, 1933.

42,349.—*Title:* CALAVOIL. For Avocado. CALAVO GROWERS OF CALIFORNIA, Los Angeles, Calif. Published August 1, 1932.

42,350.—*Title:* A-LURE BEAUTY CREAM. For Beauty Cream. JOSEPH CEFALDE, doing business as A-lure Beauty Cream Company, Youngstown, Ohio. Published May 4, 1933.

42,351.—*Title:* SI-NOZE. For Medicinal Preparation for the Nasal Passages. BERDYE SIGEL GOLDBERG, doing business as Sigel Laboratories, Los Angeles, Calif. Published February 25, 1933.

42,352.—*Title:* FUNGOL. For Chemical Compound Used as a Fungicide and as an Exterminator for Soil Vermin. MCCLAIN BROTHERS COMPANY, Canton, Ohio. Published December 28, 1932.

42,353.—*Title:* MY-T-FINE-GELATIN DESSERT—STRAWBERRY FLAVOR. For Mixture of Ingredients to be Used in Making Gelatin Dessert. My-T-Fine Corporation, Brooklyn, N. Y. Published May 25, 1933.

42,354.—*Title:* MY-T-FINE-GELATIN DESSERT—COFFEE FLAVOR. For Mixture of Ingredients Used in Making Gelatin Dessert. My-T-Fine Corporation, Brooklyn, N. Y. Published May 25, 1933.

42,355.—*Title:* LADY IRENE. For Bread. J. R. Peters & Co., Philadelphia, Pa. Published April 24, 1933.

42,356.—*Title:* GROSSVATER. For Beer. THE GEORGE J. RENNER BREWING COMPANY, Akron, Ohio. Published April 7, 1933.

42,357.—*Title:* SCHMIDT'S BEER. For Beer. C. SCHMIDT & SONS, INC., Philadelphia, Pa. Published April 7, 1933.

42,358.—*Title:* THOMSON'S RARE OLD BLENDED WHISKY R. A. SCOTCH. For Whisky. J. G. THOMSON & Co. LTD., Leith, Scotland. Published May 5, 1933.

42,359.—*Title:* PILSNER TYPE BEER. For Beer Bottles. TIVOLI BREWING COMPANY, Detroit, Mich. Published May 18, 1933.

42,360.—*Title:* STIMULATING HYGIENIC TONIC MESH. For Wash Cloths. TONIC MESH COMPANY, Bayville, N. J. Published January 10, 1933.

42,361.—*Title:* ALAMO MEXICAN STYLE CHILE CON CARNE. For Canned Chile Con Carne. WALKER'S AUSTEX CHILE COMPANY, doing business as Austin Canning Co., Austin, Tex. Published April 11, 1933.

42,362.—*Title:* ALAMO MEXICAN STYLE TAMALES WITH CHILE GRAVY. For Canned Tamales with Chile Gravy. WALKER'S AUSTEX CHILE COMPANY, doing business as Austin Canning Co., Austin, Tex. Published April 11, 1933.

42,363.—*Title:* WORLD WIDE. For Coffee. THE WEPPNER WEIL COMPANY, Cleveland, Ohio. Published April 24, 1933.

42,364.—*Title:* PENCHANT. For Cigars. WINNER CIGAR CORP., Astoria, L. I., N. Y. Published February 20, 1933.

PRINTS

REGISTERED JULY 4, 1933

14,250.—*Title:* BRILL'S E-ZEE FREEZ. For Ice Cream Powder. H. C. BRILL COMPANY, INC., Newark, N. J. Published July 1, 1932.

14,251.—*Title:* NOW 2 FOR 5¢. For Cigars. A. J. GOLDEN, Baltimore, Md. Published April 15, 1933.

14,252.—*Title:* THERE IS NO COMPROMISE WITH QUALITY AT LONGCHAMPS. For Foods. RESTAURANTS AND PATISSERIES LONGCHAMPS, INCORPORATED, New York, N. Y. Published October 1, 1932.

14,253.—*Title:* CELEBRITY FASHIONS. For Apparel. ERNEST J. SCHWARTZ, New York, N. Y. Published March 25, 1933.

14,254.—*Title:* SKINNER'S FRUIT PECTIN. For Fruit Pectin. SKINNER MANUFACTURING COMPANY, Omaha, Nebr. Published April 15, 1933.

14,255.—*Title:* STAHL-MEYER PURE PORK SAUSAGES. For Pork Sausages. STAHL-MEYER, INC., Brooklyn, N. Y. Published November 28, 1932.

14,256.—*Title:* STAHL-MEYER ALWAYS TASTY! ALWAYS FRESH! IMPORTED STYLE FRANKFURTERS. For Frankfurters. STAHL-MEYER, INC., Brooklyn, N. Y. Published June 11, 1932.

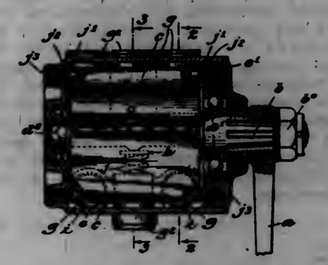
14,257.—*Title:* 'HIDDEN NAME TEST' PROVES NEW SUNBRITE CLEANSER CLEANS EASIER. For Cleansing and Scouring Powder. SWIFT & COMPANY, Chicago, Ill. Published May 12, 1933.

CARNEGIE LIBRARY OF ATLANTA

REISSUES

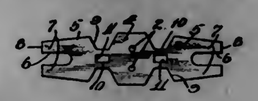
JULY 4, 1933

18,885. SUSPENSION FOR VEHICLES. ANDRÉ DUBONNET, Neuilly sur Seine, France. Original No. 1,892,937, dated Jan. 3, 1933, Serial No. 415,510, filed Dec. 20, 1929, and in Belgium Oct. 23, 1929. Application for reissue filed Apr. 5, 1933. Serial No. 664,481. 12 Claims. (Cl. 267—34.)



3. In a vehicle provided with a wheel, a chassis, and a wheel supporting element oscillatably supported about an axis on said chassis and carrying said wheel for rotation about another axis means for diminishing the amplitude of oscillation of said wheel supporting element comprising a plurality of arms mounted to rotate about the axis of oscillation of the wheel supporting element and to react on the latter, and a pair of dash pots mounted at an angle to one another and bearing against said arms, each of said dash pots including a pair of telescoping elements, one of said telescoping elements having a passage formed through the wall thereof adapted to offer resistance to the passage of a fluid therethrough, in combination with springs mounted inside said dash pots and tending to force said telescoping elements apart, and a spring reacting against one of said arms for opposing recoil of said interior dash pot springs.

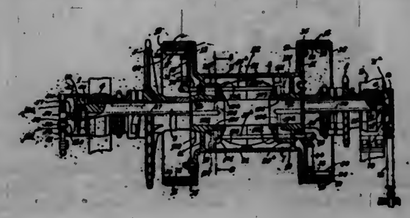
18,886. RENEWABLE FUSE ELEMENT. JOHN B. GLOWACKI, Chicago, Ill. Original No. 1,788,623, dated Jan. 13, 1931, Serial No. 212,239, filed Aug. 11, 1927. Application for reissue filed Feb. 1, 1932. Serial No. 590,279. 8 Claims. (Cl. 200—135.)



2. In a renewable fuse element structure including spaced terminals, a bridge member of insulating material therebetween, a pair of fuse elements on one side of the bridge member removably connected to said terminals, insulating means separating the fuse elements, and spacing means on the bridge member contacting one of said fuse elements.

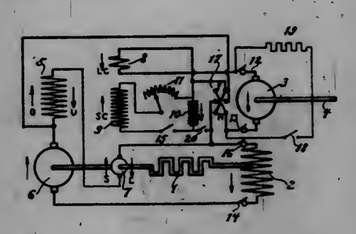
18,887. DISTRIBUTION OF WATER FOR COOLING BRAKE RIMS. ALLEN ERWIN RICE, Palos Verde, and LEWIS EMANUEL ZEBBS, Moneta, Calif., assignors to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Original No. 1,874,624, dated Aug. 30, 1932, Serial No. 474,548, filed Aug. 11, 1930. Application for reissue filed Feb. 2, 1933. Serial No. 655,081. 12 Claims. (Cl. 188—264.)

1. In a rotary drawworks, the combination of a drum, a shaft supporting the drum, brake rims at the opposite ends of said drum, the drum being formed of two half sections, each including a half of the spooling portion of the drum, an end flange, a brake rim secured thereto, a cooling liquid distribution manifold, means for securing the half drum sections together, means for conveying



the cooling liquid from one of said manifolds to the oppositely mounted brake rims, means for circulating the cooling liquid around the brake rims, and means for conducting the cooling liquid from the brake rims back to the other said manifold.

18,888. AUTOMATIC POWER TRANSMISSION. ALFONS H. NEULAND, Irvington, N. J., assignor, by mesne assignments, to Electrogear Corporation, a Corporation of Delaware. Original No. 1,773,843, dated Aug. 26, 1930, Serial No. 219,226, filed Sept. 18, 1927. Application for reissue filed Jan. 27, 1933. Serial No. 653,888. 20 Claims. (Cl. 292—12.)

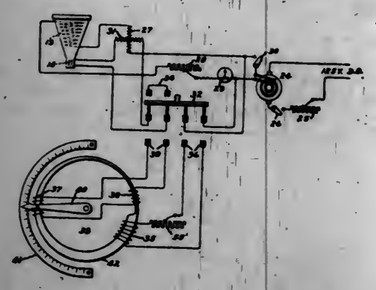


9. In combination an engine having an engine shaft, a load shaft, a dynamo rotatively connected with both shafts having a series field coil, a second dynamo rotatively connected with one of the shafts, a load circuit including the dynamos adapted to establish power flow from engine shaft to load shaft, a battery, and a switch adapted when closed to connect battery to the first dynamo to form one circuit and to establish a second circuit including the second dynamo and the series coil operative to rotate engine shaft, and weaken current in series coil as engine shaft speeds up.

18,889. METHOD AND APPARATUS FOR TESTING METALS. JAMES A. SAMS, Schenectady, and VIRGIL F. SHAW, Scotia, N. Y., assignors to General Electric Company, a Corporation of New York. Original No. 1,789,196, dated Jan. 13, 1931, Serial No. 7,107, filed Feb. 5, 1925. Application for reissue filed Dec. 23, 1931. Serial No. 582,887. 10 Claims. (Cl. 175—183.)

1. Apparatus for determining physical properties of magnetizable materials comprising a magnetic tester, hav-

ing magnetizing and secondary coils, an electrical measuring instrument having current and potential coils connected in series with said magnetizing and secondary coils



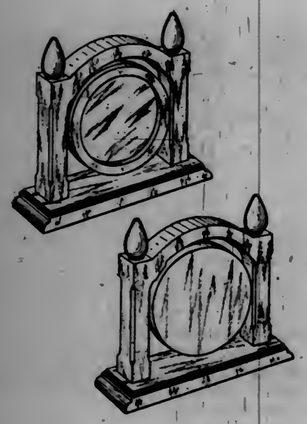
respectively, a potential transformer, a common source of alternating current for energizing the said transformer and said magnetizing coil, means for connecting the secondary winding of said transformer in series opposition with the secondary coil of said magnetic tester, means for adjusting the secondary voltage of said potential transformer and indicating means associated with said adjusting means graduated to indicate a physical property characteristic of the material to be tested.

10. The method of testing which includes subjecting a specimen to a magnetising force in a transformer, producing a representation of the relationship between instantaneous values of current induced in the secondary circuit of the transformer while the specimen is in the effective magnetic field thereof, subjecting the specimen to inspection for determination of its physical and/or chemical properties, co-relating said representation with the results of said inspection, subjecting another specimen in a transformer to a magnetising force having the same value and characteristics as those of the magnetising force to which the first specimen was subjected, and comparing the representation of the relationship between instantaneous values of current induced in the secondary circuit of the transformer while the second specimen is in the effective field thereof with said first mentioned representations to determine the likeness or unlikeness of said specimens.

DESIGNS

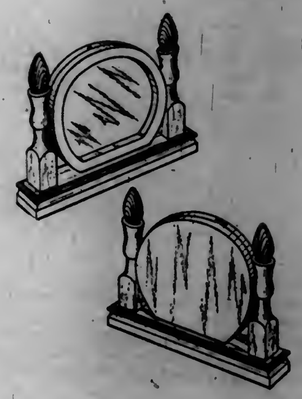
JULY 4, 1933

90,222. COMBINED ELECTRIC LAMP AND PICTURE FRAME. EARL D. ALLEN, Spokane, Wash. Filed May 3, 1933. Serial No. 47,977. Term of patent 3½ years.



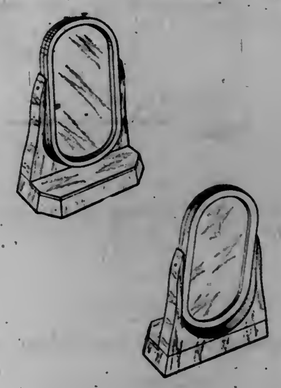
The ornamental design for a combined electric lamp and picture frame, substantially, as shown.

90,223. COMBINED ELECTRIC LAMP AND PICTURE FRAME. EARL D. ALLEN, Spokane, Wash. Filed May 3, 1933. Serial No. 47,978. Term of patent 3½ years.



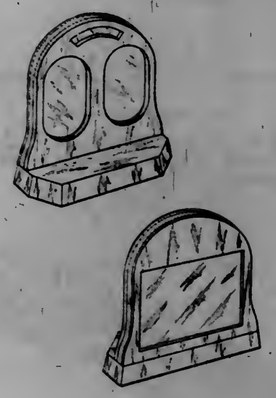
The ornamental design for a combined electric lamp and picture frame, substantially, as shown.

90,224. PICTURE FRAME OR SIMILAR ARTICLE. EARL D. ALLEN, Spokane, Wash. Filed May 3, 1933. Serial No. 47,979. Term of patent 3½ years.



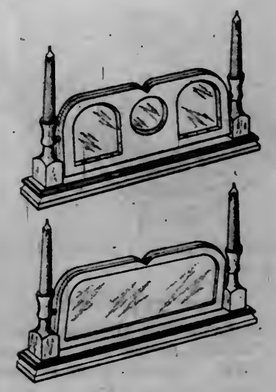
The ornamental design for a picture frame or similar article, substantially, as shown.

90,225. PICTURE FRAME OR SIMILAR ARTICLE. EARL D. ALLEN, Spokane, Wash. Filed May 3, 1933. Serial No. 47,980. Term of patent 3½ years.



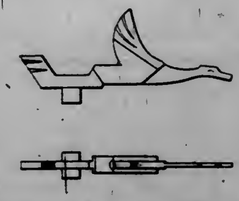
The ornamental design for a picture frame or similar article, substantially, as shown.

90,226. COMBINED ELECTRIC LAMP AND PICTURE FRAME. EARL D. ALLEN, Spokane, Wash. Filed May 3, 1933. Serial No. 47,981. Term of patent 3½ years.



The ornamental design for a combined electric lamp and picture frame, substantially, as shown.

90,227. VEHICLE HEADLIGHT INDICATOR. CHARLES O. BAUGHN, Muskogee, Okla. Filed Apr. 27, 1933. Serial No. 47,919. Term of patent 7 years.



The ornamental design for a vehicle headlight indicator as shown.

90,228. PAPER WEIGHT OR SIMILAR ARTICLE. ORVILLE H. BEALL and OTTO DE CARDY, Chicago, Ill. Filed Apr. 24, 1933. Serial No. 47,881. Term of patent 3½ years.



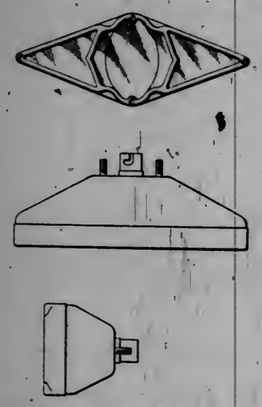
The ornamental design for a paper weight or similar article, as shown.

90,229. COMBINATION ASH TRAY AND GLASS HOLDER. ALOYSIUS W. BECKER, Chicago, Ill. Filed May 1, 1933. Serial No. 47,948. Term of patent 3½ years.



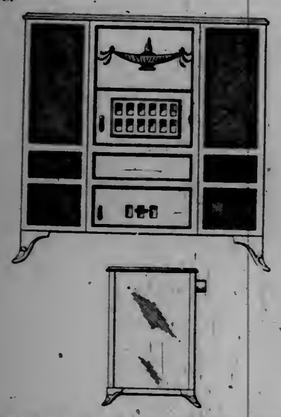
The ornamental design for a combination ash tray and glass holder as shown.

90,230. SIGNAL LAMP FOR AUTOMOTIVE VEHICLES. BORNETT L. BOBROFF, Racine, Wis. Filed May 1, 1933. Serial No. 47,956. Term of patent 14 years.



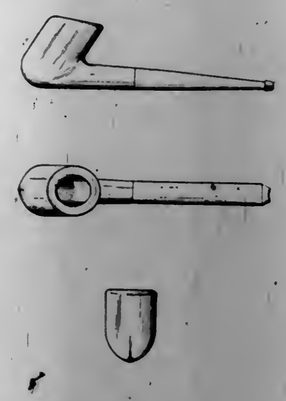
The ornamental design for a signal lamp for automotive vehicles as shown.

90,231. COAL STOVE. GEORGE L. BRIDGE, Clayton, Mo. Filed Mar. 16, 1933. Serial No. 47,469. Term of patent 14 Years.



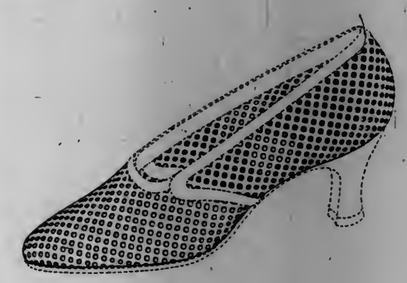
The ornamental design for a coal stove, substantially as shown.

90,232. TOBACCO PIPE. JOHN D. BURGER, Rye, N. Y. Filed May 4, 1933. Serial No. 48,014. Term of patent 14 years.



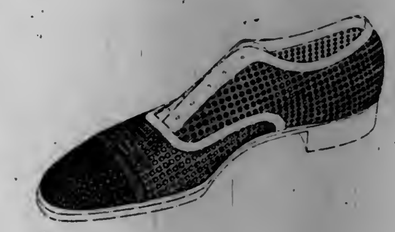
The ornamental design for a tobacco pipe, substantially as shown.

90,233. SHOE. CLAUDE H. DANIELS, Newton Center, Mass. Filed Feb. 2, 1933. Serial No. 47,090. Term of patent 14 years.



The ornamental design for a shoe, substantially as shown.

90,234. SHOE. CLAUDE H. DANIELS, Newton Center, Mass. Filed Feb. 2, 1933. Serial No. 47,091. Term of patent 14 years.



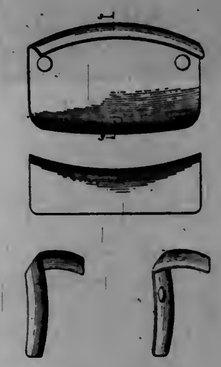
The ornamental design for a shoe, substantially as shown and described.

90,235. SHOE. CLAUDE H. DANIELS, Newton Center, Mass. Filed Feb. 2, 1933. Serial No. 47,092. Term of patent 14 years.



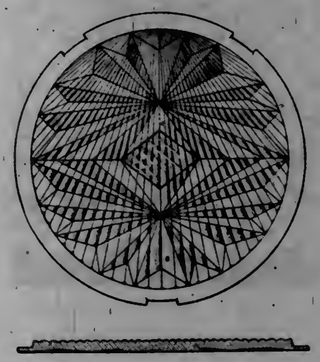
The ornamental design for a shoe, substantially as shown and described.

90,236. MIRROR. ELLIS J. DE HART, Saginaw, Mich. Filed Oct. 20, 1932. Serial No. 45,424. Term of patent 7 years.



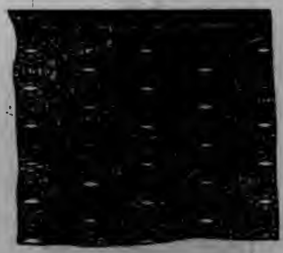
The ornamental design for a mirror substantially as shown and described.

90,237. LENS FOR AUTOMOBILE HEAD LAMPS. NICKOLAS DE LEO, Troy, N. Y. Filed Apr. 28, 1933. Serial No. 47,926. Term of patent 7 years.



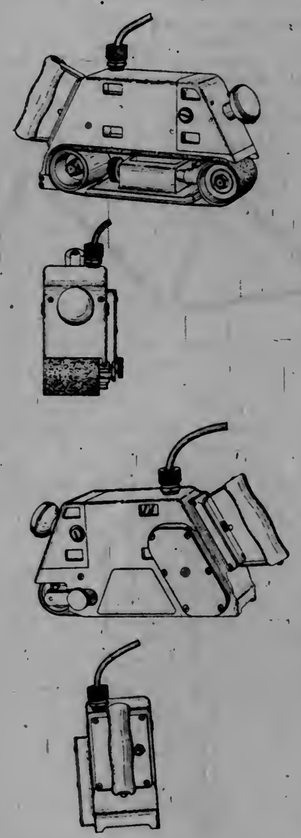
The ornamental design for a lens for an automobile head lamp, as shown.

90,238. CORD EMBROIDERED TEXTILE FABRIC. NORMAN EISENSTADT, New York, N. Y. Filed Mar. 31, 1933. Serial No. 47,853. Term of patent 7 years.



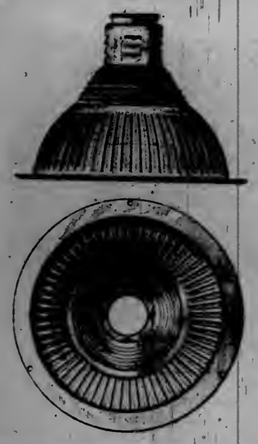
The ornamental design for a cord embroidered textile fabric as shown and described.

90,239. ABRADING MACHINE. ARTHUR N. EMMONS, Syracuse, N. Y., assignor to The Porter-Cable Machine Company, Syracuse, N. Y., a Corporation of New York. Filed Apr. 19, 1933. Serial No. 47,835. Term of patent 7 years.



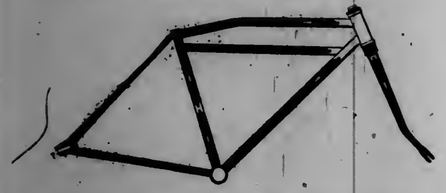
The ornamental design for an abrading machine substantially as shown.

90,240. REFLECTOR. SIDNEY ENDER, Brooklyn, N. Y. Filed May 3, 1933. Serial No. 47,974. Term of patent 14 years.



The ornamental design for a reflector, as shown.

90,241. BICYCLE FRAME OR THE LIKE. CHARLES J. FOGARTY, Westfield, Mass., assignor to Edward H. Broadwell, receiver of The Westfield Manufacturing Company, Westfield, Mass., a Corporation of Massachusetts. Filed Oct. 28, 1932. Serial No. 45,606. Term of patent 14 years.



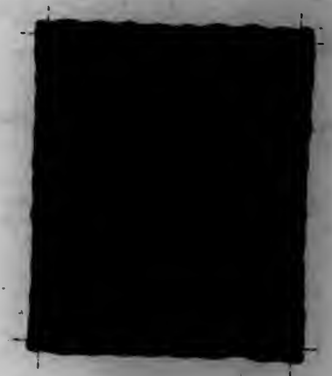
The ornamental design for a bicycle frame or the like as shown and described.

90,242. AMUSEMENT MACHINE CABINET. GEORGE A. GAST, Chicago, Ill., assignor, by mesne assignments, to John F. Meyer, Pasadena, Calif. Filed Apr. 17, 1933. Serial No. 47,816. Term of patent 14 years.



The ornamental design for an amusement machine cabinet as shown.

90,243. TEXTILE FABRIC OR SIMILAR ARTICLE. JOSEPH M. GOTTESMAN, Paris, France, assignor to William Willheim Co., Inc., New York, N. Y. Filed Dec. 1 1932. Serial No. 46,219. Term of patent 3½ years.



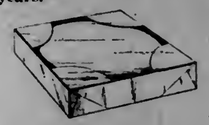
The ornamental design for a textile fabric or similar article as shown and described.

90,244. TEXTILE FABRIC OR SIMILAR ARTICLE. MACLYN GUHL, Forest Hills, N. Y., assignor to William Willheim Co., Inc., New York, N. Y. Filed May 29, 1933. Serial No. 48,229. Term of patent 3½ years.



The ornamental design for a textile fabric or similar article as shown.

90,245. CANDY PACKAGE. JOSEPH HAAN, New York, N. Y. Filed Sept. 29, 1932. Serial No. 45,162. Term of patent 7 years.





The ornamental design for a candy package substantially as shown.

90,246. MOLDED CONTAINER CLOSURE. CHARLES H. HALL, Freeport, N. Y. Filed Apr. 26, 1932. Serial No. 43,615. Term of patent 14 years.







The ornamental design for a molded container closure, as shown and described.

90,247. PORTABLE DISPENSING CAR OR ANALOGOUS DEVICE. MONROE HARRISON, Chicago, Ill. Filed Apr. 28, 1933. Serial No. 47,931. Term of patent 7 years.



The ornamental design for a dispensing car or analogous device, as shown.

90,248. WELDING TORCH BODY OR HANDLE. DAVID M. HASBROUCK, Jersey City, N. J., assignor to Air Reduction Company, Incorporated, New York, N. N. Y., a Corporation of New York. Filed Mar. 30, 1933. Serial No. 47,634. Term of patent 14 years.



The ornamental design for a welding torch body or handle, substantially as shown.

90,249. CUTTING TORCH HANDLE. DAVID M. HASBROUCK, Jersey City, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 30, 1933. Serial No. 47,635. Term of patent 14 years.



The ornamental design for a cutting torch handle, substantially as shown.

90,250. LAMP OR SIMILAR ARTICLE. HAROLD L. HERZFELDER, New York, N. Y., and MARCUS HARRIS, Newark, N. J.; said Harris assignor to said Herzfelder. Filed Apr. 29, 1933. Serial No. 47,940. Term of patent 3½ years.



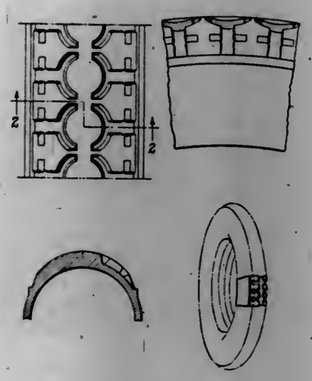
The ornamental design for a lamp or similar article as shown.

90,251. HANDLE. HOWARD W. HINDES, Worcester, Mass., assignor to The Washburn Company, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 1, 1932. Serial No. 46,268. Term of patent 14 years.



The ornamental design for a handle, as shown and described.

90,252. TIRE. GUSTAVE HUBACH, Springfield, Mass., assignor to Charles A. Dana and John B. Pierce, as receivers of The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed June 11, 1932. Serial No. 44,054. Term of patent 14 years.



The ornamental design for a tire as shown.

90,253. BEVERAGE DISPENSER. FREDERICK A. JOHNSON and JOHN W. FREEBORN, Brantford, Ontario, Canada, assignors to Ruddy Manufacturing Company, Limited, Brantford, Ontario, Canada, a Corporation of Ontario. Filed Jan. 23, 1933. Serial No. 46,946. Term of patent 3½ years.



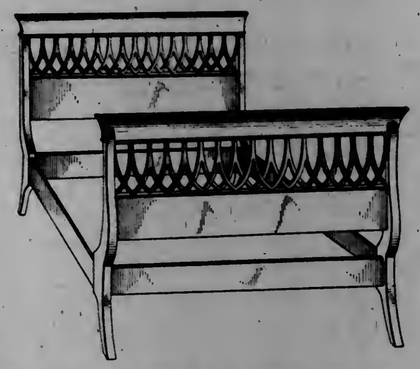
The ornamental design for a beverage dispenser, as shown.

90,254. COMBINED DRESSING TABLE AND MIRROR. FRANCES M. MCCLURE, New York, N. Y., assignor to The Statton Furniture Manufacturing Company, Hagerstown, Md., a Corporation of Maryland. Filed Jan. 24, 1933. Serial No. 46,951. Term of patent 3½ years.



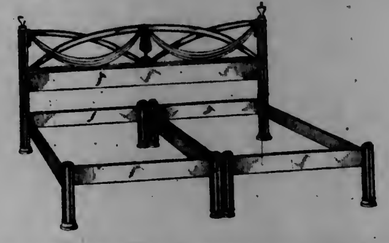
The ornamental design for a combined dressing table and mirror, as shown.

90,255. BEDSTEAD. FRANCES M. MCCLURE, New York, N. Y., assignor to The Statton Furniture Manufacturing Company, Hagerstown, Md., a Corporation of Maryland. Filed Jan. 24, 1933. Serial No. 46,950. Term of patent 3½ years.



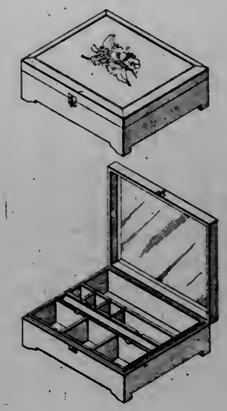
The ornamental design for a bedstead, as shown.

90,256. BEDSTEAD. FRANCES M. MCCLURE, New York, N. Y., assignor to The Statton Furniture Manufacturing Company, Hagerstown, Md., a Corporation of Maryland. Filed Jan. 24, 1933. Serial No. 46,947. Term of patent 3½ years.



The ornamental design for a bedstead, as shown.

90,257. BOX FOR COSMETICS. MILDRED E. MCFARLAND, San Francisco, Calif. Filed Apr. 11, 1933. Serial No. 47,759. Term of patent 3½ years.



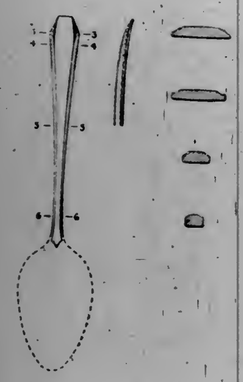
The ornamental design for a box for cosmetics, as shown.

90,258. SHOE. CHARLES MILLER, New York, N. Y. Filed May 4, 1933. Serial No. 48,002. Term of patent 3½ years.



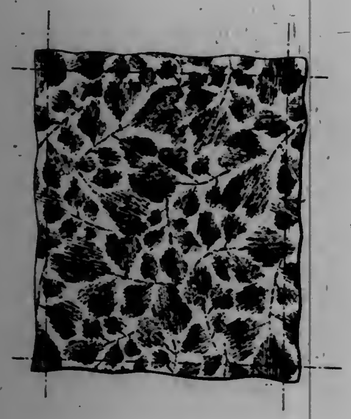
The ornamental design for a shoe, as shown.

90,259. SPOON OR ARTICLE OF ANALOGOUS NATURE. HAROLD E. NOCK, Newburyport, Mass., assignor to Towle Manufacturing Company, Newburyport, Mass., a Corporation of Massachusetts. Filed May 18, 1933. Serial No. 48,156. Term of patent 14 years.



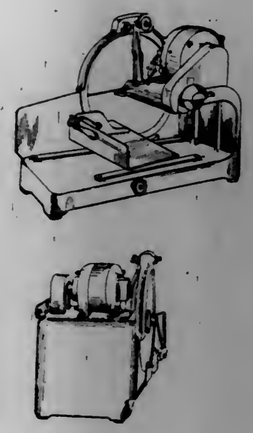
The ornamental design for a spoon or article of analogous nature, substantially as shown and described.

90,260. TEXTILE FABRIC OR SIMILAR ARTICLE. JOHN OVERMEYER, New York, N. Y., assignor to William Willhelm Co., Inc., New York, N. Y. Filed Nov. 12, 1932. Serial No. 45,932. Term of patent 3½ years.



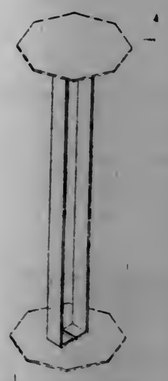
The ornamental design for a textile fabric or similar article as shown and described.

90,261. ELECTRIC FOOD SLICER. PAUL G. PEDDICORD, Dayton, Ohio. Filed Apr. 10, 1933. Serial No. 47,741. Term of patent 14 years.



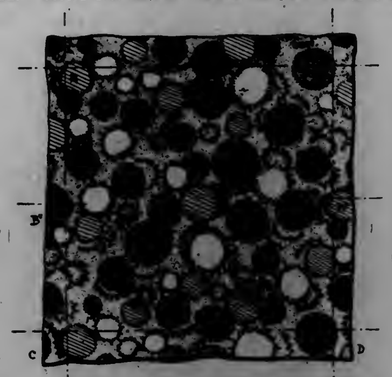
The ornamental design for an electric food slicer, as shown.

90,262. ARTICLE DISPLAY PEDESTAL. DONALD L. SANZENBACHER, Bronson, Mich., assignor to L. A. Darling Company, Bronson, Mich., a Corporation of Michigan. Filed Apr. 17, 1933. Serial No. 47,817. Term of patent 7 years.



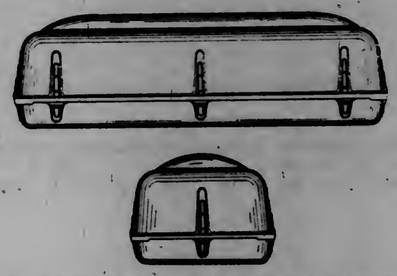
The ornamental design for an article display pedestal, substantially as shown and described.

90,263. TEXTILE FABRIC OR SIMILAR ARTICLE. JACK SCHWEIZER, New York, N. Y., assignor to William Willhelm Co., Inc., New York, N. Y. Filed Nov. 12, 1932. Serial No. 45,907. Term of patent 3½ years.



The ornamental design for a textile fabric or similar article as shown and described.

90,264. BURIAL VAULT. ALLISON F. H. SCOTT, Plensantville, N. Y. Filed Apr. 7, 1933. Serial No. 47,721. Term of patent 7 years.



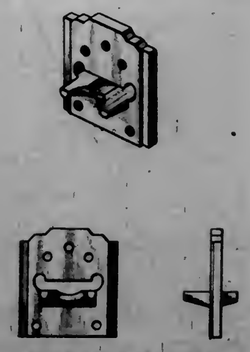
The ornamental design for a burial vault, as shown.

90,265. LAMP OR SIMILAR ARTICLE. THEODORE SHAPIRO, Brooklyn, N. Y., assignor to Ruby Lamp Mfg. Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 8, 1933. Serial No. 47,727. Term of patent 3½ years.



The ornamental design for a lamp or similar article, substantially as shown.

90,266. FACE PLATE FOR COIN CHUTES. WILLIAM C. SHINN, Chicago, Ill., assignor to Chicago Lock Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 31, 1933. Serial No. 47,655. Term of patent 7 years.



The ornamental design for a face plate for a coin chute substantially as shown.

90,267. COMBINED LIGHTER AND TOBACCO CONTAINER OR THE LIKE. ELMO E. SMITH and KARL L. BUNZE, Chicago, Ill. Filed Nov. 7, 1932. Serial No. 45,807. Term of patent 7 years.



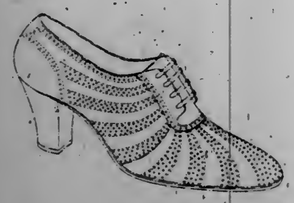
The ornamental design for a combined lighter and tobacco container, or the like, substantially as shown.

90,268. JAR. FRASIER SMITH, Wheeling, W. Va., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va., a Corporation of West Virginia. Filed May 2, 1933. Serial No. 47,969. Term of patent 14 years.



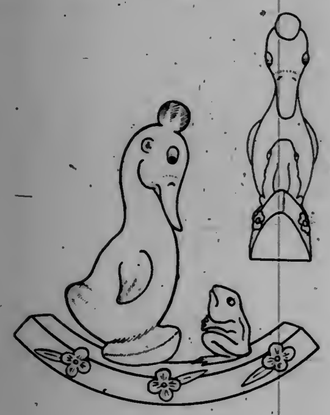
The ornamental design for a jar, as shown.

90,269. SHOE. OTTO F. STOCK, Columbus, Ohio, assignor to The Julian & Kokenge Co., Columbus, Ohio, a Corporation of Ohio. Filed Apr. 25, 1933. Serial No. 47,893. Term of patent 3½ years.



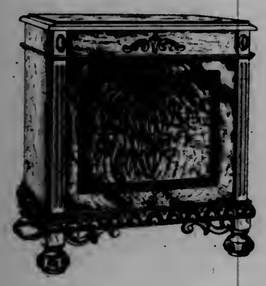
The ornamental design for a shoe as shown.

90,270. TOY. LADISLAS TURCHANYI, Sashalom, near Budapest, Hungary, assignor to Magyar Ruggyantaarugyar Reszvenytarsasag, Budapest, Hungary, a Corporation of Hungary. Filed Feb. 13, 1933, Serial No. 47,196, and in Great Britain and Austria Oct. 17, 1932. Term of patent 7 years.



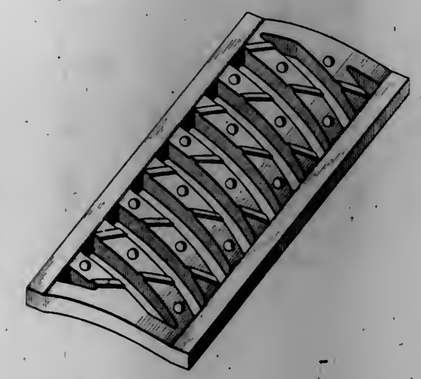
The ornamental design for a toy substantially as shown.

90,271. CEDAR CHEST OR SIMILAR ARTICLE. JOHN WEBER, Milton, Pa. Filed Feb. 6, 1933. Serial No. 47,119. Term of patent 3½ years.



The ornamental design for a cedar chest or similar article, as shown.

90,272. GRATING. FRED J. WHITE, Washington, D. C. Filed Dec. 17, 1932. Serial No. 46,478. Term of patent 7 years.



The ornamental design for a grating as shown.

90,273. TEXTILE FABRIC OR SIMILAR ARTICLE. WILLIAM WILLHEIM, New York, N. Y. Filed Nov. 18, 1932. Serial No. 46,019. Term of patent 3½ years.



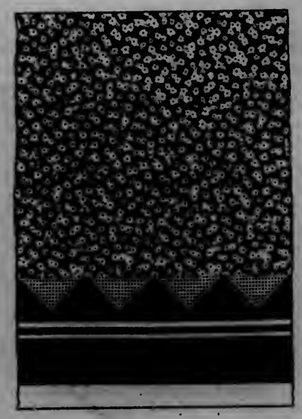
The ornamental design for a textile fabric or similar article as shown and described.

90,274. TEXTILE FABRIC. ELSIE GREENSPAN, New York, N. Y., assignor to Seneca Silk Company, Inc., New York, N. Y., a Corporation of New York. Filed May 25, 1933. Serial No. 48,213. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown and described.

90,275. TEXTILE FABRIC. EDWARD HECKER, New York, N. Y., assignor to Seneca Silk Co., Inc., New York, N. Y., a Corporation of New York. Filed May 31, 1933. Serial No. 48,244. Term of patent 3½ years.

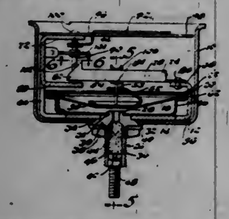


The ornamental design for a textile fabric, substantially as shown and described.

PATENTS

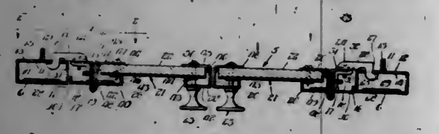
GRANTED JULY 4, 1933

1,916,188. HYDROSTATIC FUEL GAUGE. ELBRIDGE F. BACON and CLARENCE B. DINSMORE, Flint, Mich., assignors to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Mar. 28, 1928. Serial No. 265,406. 9 Claims. (Cl. 73—110.)



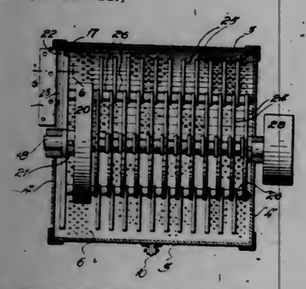
3. In a gauge having a casing, a supporting frame mounted therein, said frame having a plurality of fingers, a flexible lever secured to one of said fingers, indicating means mounted on other of said fingers, movable pressure responsive means secured to said frame, means for transmitting the motion of said pressure responsive means to said lever, said lever operating said indicating means whereby movement of the pressure responsive means will be indicated, and a calibrating arm secured to a finger of said frame and contacting with said lever.

1,916,189. CABINET CONSTRUCTION. JAMES E. BALES, Aurora, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a Corporation of Illinois. Filed Apr. 12, 1930. Serial No. 443,719. 18 Claims. (Cl. 189—34.)



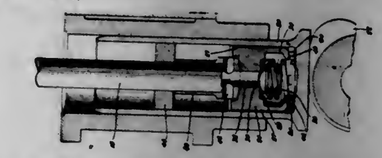
1. A cabinet comprising spaced hollow metal uprights which are provided with spaced holes, straps or clips having legs received in some of said holes, turned ends on said legs and engaging said uprights, a frame arranged between said uprights, and a single fastening means passing through each strap or clip and engaging said frame for rigidly but detachably fastening said frame to said uprights.

1,916,190. FEED MILL. MARVIN D. BOWERMAN, Celeste, Tex. Filed June 22, 1931. Serial No. 546,045. 2 Claims. (Cl. 83—11.)



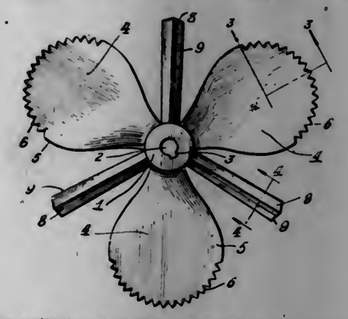
1. A machine of the class described comprising a framework having a container for holding material to be treated; said container having a foraminous bottom and a cover; a shaft traversing the conjainer, said shaft having a fly wheel mounted thereon and carrying a revoluble cutting knife; a stationary cutting knife mounted within said container and near the point where material is fed into said container, said stationary cutter arranged so as to co-act with said revoluble knife; a plurality of disks mounted in spaced relation on said shaft, a plurality of beater elements mounted in spaced radial relation on said disks, a plurality of rods traversing said disks, spacer means, and beaters; a pulley mounted on said shaft outside the container for connection with a drive means and an opening in said framework for feeding the material to said knives and beaters.

1,916,191. ZERO LASH VALVE LIFTER. OTTO BURKHARDT, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Nov. 27, 1931. Serial No. 577,410. 2 Claims. (Cl. 123—90.)



1. In valve mechanism for internal combustion engines the combination of an operating part, an operated part, a dash pot interposed between said parts comprising a cylinder and a piston in the cylinder, means yieldingly urging the piston out of the cylinder, a passage establishing communication between the opposite sides of the piston, a valve controlling flow through said passage and preventing escape of fluid from beneath said piston, but permitting admission of fluid thereto, said piston being composed of a material having a higher coefficient of expansion than said cylinder so that as the engine temperature increases the clearance between the piston and cylinder decreases to compensate for the increased viscosity of the oil in the dash pot.

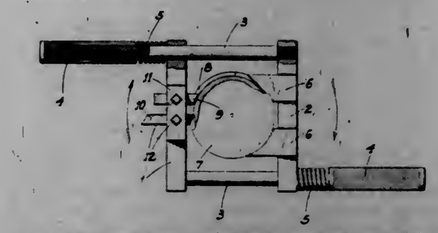
1,916,192. AGITATING AND DISINTEGRATING DEVICE. ALEXANDRE ANCTIL DAVID, Montreal, Quebec, Canada. Filed Dec. 14, 1931, Serial No. 580,888, and in Canada May 23, 1931. 4 Claims. (Cl. 259—103.)



1. An agitating and disintegrating device comprising a hub, blades extending outwardly from said hub and lying in planes inclined to the longitudinal axis thereof, the outer ends of said blades being serrated to form teeth,

and arms extending outwardly from said hub and alternating with said blades, all of said blades being symmetrical to one plane transverse of said hub.

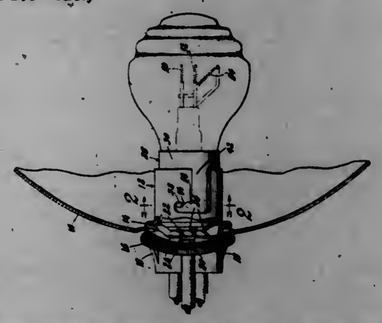
1,916,193. PISTON LATHE. CHARLES L. EICH, Fresno, Calif. Filed May 26, 1931. Serial No. 540,044. 2 Claims. (Cl. 82—4.)



1. A hand lathe for cylindrical members comprising a pair of bars adapted to be disposed on opposite sides of a member for movement toward and from each other, parallel rods secured to the upper end of one bar and to the lower end of the other bar and slidably projecting thence in opposite directions through and beyond the corresponding opposite bars, a cutter on one bar for engagement with the member, and handle sleeves adjustably threaded on the rods beyond the bars whereby the latter may be rotated as a unit and adjusted toward and from each other.

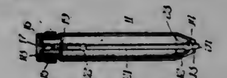
2. A hand lathe for cylindrical members comprising a pair of bars adapted to be disposed on opposite sides of a member for movement toward and from each other, parallel rods secured to the upper end of one bar and to the lower end of the other bar and slidably projecting thence in opposite directions through and beyond the corresponding opposite bars, a cutter on one bar for engagement with the member and disposed substantially parallel to the rods, handle sleeves adjustably threaded on the rods beyond the bars, and compression springs on the rods between the inner ends of the sleeves and the adjacent bars.

1,916,194. LAMP SOCKET. CHARLES E. GODLEY, Ypsilanti, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Sept. 17, 1930. Serial No. 482,469. 1 Claim. (Cl. 173—328.)



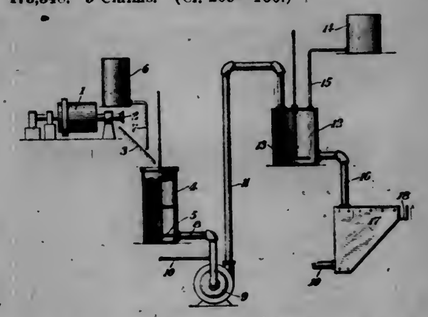
A lamp socket for use either with bulbs having locating pins at the ends of a diameter through the base or with bulbs having one of the pins slightly offset angularly with respect to a line passing through the center of the base and the other pin, said socket being provided with bayonet slots having entrance throats and pin seats, the entrance throats lying at the opposite ends of a diameter drawn through the socket, said slots extending angularly away from said diameter in the same direction, one of said slots being of greater angular extent than the other and having a throat and pin seat of greater angular extent than the other by an amount equal to or greater than the amount of angular offset of one of said pins to permit the slot to receive and hold bulbs having either arrangement of locating pins.

1,916,195. DISPENSING APPLIANCE. CHARLES G. ANASTOR, Vineland, N. J., assignor to Kimble Glass Company, Vineland, N. J., a Corporation of Illinois. Filed Mar. 17, 1933. Serial No. 661,288. 5 Claims. (Cl. 221—16.)



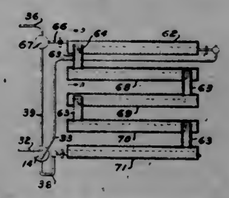
1. In a dispensing appliance, the combination of a container adapted to hold the medium to be dispensed, said container having a mouth at one end and a delivery-port near its opposite end, a closure for said mouth, a resilient member in said container having a discharge-port therethrough, a rod secured to said closure, and a valve on said rod cooperating with said discharge-port, whereby the opening and closing of said port by said valve is controlled by the position of said closure.

1,916,196. METHOD OF TREATING ORES. FRANK AYER, ARTHUR CROWFOOT, HAROLD TOURTEL HERIVEL, and PAUL MERRICK SORENSEN, Morenci, Ariz., assignors to Phelps Dodge Corporation, Morenci, Ariz., a Corporation of New York. Filed Aug. 6, 1930. Serial No. 473,348. 9 Claims. (Cl. 209—166.)



3. In a process of treating metalliferous ores, the step of sulphidizing the ore while maintaining it in a liquid suspension having a hydrogen ion concentration between pH 4.8 and pH 6.5.

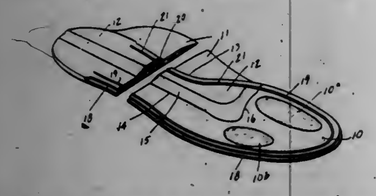
1,916,197. REFRIGERATING APPARATUS. ERNST S. H. BAARS, Milwaukee, Wis., assignor to The Vilter Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 4, 1931. Serial No. 561,147. 7 Claims. (Cl. 62—126.)



2. In combination, an evaporator comprising a series of superimposed tubular sections and riser pipes extending from the top of each lower section into and above the

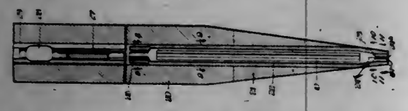
bottom of the adjacent upper section, overflow elbows within the upward extensions of said riser pipes terminating below the tops thereof, one of said elbows having a V-notch in the overflow edge thereof, and a float controlled valve operable by variations in the level of refrigerant in the lower of said sections for delivering refrigerant to an upper of said sections.

1,916,198. INSOLE FOR SHOES AND METHOD OF MANUFACTURING THE SAME. GEORGE E. MUSEBECK, Danville, Ill., assignor to Musebeck Shoe Company, Danville, Ill., a Corporation. Filed Dec. 1, 1932. Serial No. 645,188. 7 Claims. (Cl. 36—22.)



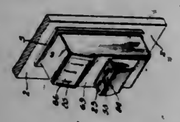
1. An insole for shoes including a thickness of material having the outline of a normal insole with arch supporting extension, and a second thickness assembled therewith as a unitary structure, said second piece being positioned beneath said first and extending beneath the scaphoid portion of the longitudinal arch of a foot and the inner portion of the heel, but not beneath the cuboid portion of said arch or the arch supporting extension.

1,916,199. WRITING IMPLEMENT. ROBERT BACK, Chicago, Ill., assignor to The Wahl Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 24, 1932. Serial No. 630,261. 16 Claims. (Cl. 120—9.)



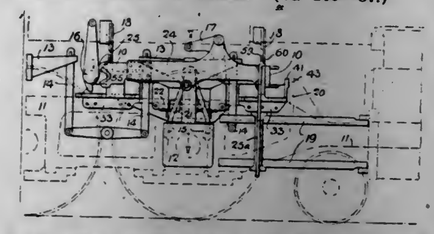
10. In a mechanical pencil, in combination, a tip having a bore of non-circular cross-sectional contour, means for propelling a lead stick into said non-circular bore, and a guide member adjacent the path of the lead stick above said bore adapted for cooperation with the lead stick to adjust it rotatively relative to said bore incident to entry of the lead stick thereinto.

1,916,200. INK DISPENSING DEVICE. GUY RAYMOND BESS, Chicago, Ill. Filed Jan. 18, 1932. Serial No. 587,352. 6 Claims. (Cl. 120—57.)



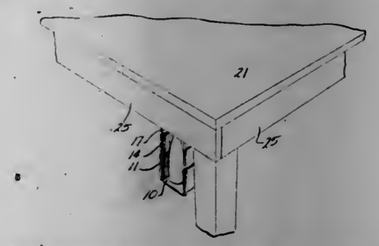
1. An ink dispensing device comprising a casing having an ink compartment therein, said casing being provided with a pen filling opening communicating with said compartment, a self filling bucket member movably mounted in said compartment and normally positioned out of communication with the opening, said bucket member being provided with an extending portion for normally closing said opening from the interior of said compartment, and means for moving said portion and bucket member for uncovering said opening and establishing communication of the interior thereof with said opening.

1,916,201. FRAME CROSS-TIE AND APPARATUS SUPPORTING STRUCTURE FOR LOCOMOTIVES. JAMES G. BLUNT, Schenectady, N. Y. Filed Feb. 5, 1930. Serial No. 425,972. 4 Claims. (Cl. 105—37.)



1. A cross-tie member made as an integral casting having means for securing it to the side frame members of a locomotive and comprising a box-shaped structure having a portion narrowed transversely to provide oppositely disposed spaces, said transversely narrowed portion being thickened vertically to add strength to compensate for loss in strength caused by said narrowing of the casting.

1,916,202. SHELF SUPPORT. STANLEY BUBIEN, Kenosha, Wis. Filed Mar. 11, 1932. Serial No. 598,110. 1 Claim. (Cl. 248—65.)



A shelf member with a slide extending therefrom, successive slides telescopically receivable upon each other and provided with depressed portions, and protuberances upon the slides to snap into said depressions to limit the relative movement of the slides.

1,916,203. STENCIL PAPER. KENNETH W. CARR, Oak Park, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a Corporation of West Virginia. Filed May 7, 1930. Serial No. 450,601. 7 Claims. (Cl. 41—38.6.)

1. A stencil sheet coating composition containing the following substances in substantially the proportions specified:

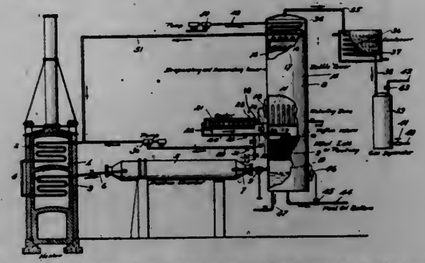
	Parts
Aluminum stearate	2
(45% solution) Phenol formaldehyde resin	16
Chlorinated naphthalene	14
Corn oil	13

1,916,204. VACUUM TUBE. ALLAN B. COLBY, Providence, R. I. Filed June 19, 1929. Serial No. 372,074. 8 Claims. (Cl. 250—27.5.)



1. In a vacuum tube, a retainer cup, a lip thereon, a getter therein, and a holder engaging said getter and having spring arms spaced a predetermined distance apart engaging said cup and prevented by said lip from being withdrawn from the cup.

1,916,205. APPARATUS FOR CONVERTING PETROLEUM HYDROCARBONS. WALTER M. CROSS, Kansas City, Mo., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del., a Corporation of Delaware. Filed Sept. 3, 1925. Serial No. 54,271. 2 Claims. (Cl. 196—107.)

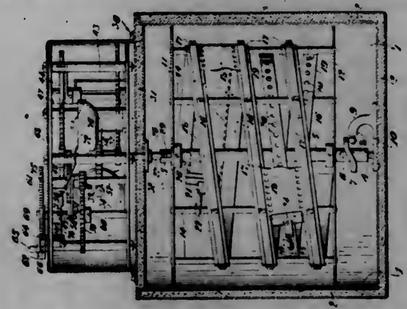


1. An apparatus for conversion of hydrocarbon oils comprising in combination a cracking coil, a reaction chamber, and a tower having an evaporating zone in the lower portion thereof and a fractionating zone in the upper portion thereof, means for passing the oil under superatmospheric pressure through said cracking coil into said reaction chamber, means including a pressure reducing valve for passing oil from said reaction chamber into the evaporating zone of said tower, means for maintaining the level of liquid in said evaporating zone below the point of entrance of cracked products into said zone, a packing for said evaporating zone located above the point of introduction of said products, a partition across said tower forming a vapor space above said packing, a plurality of stand pipes piercing said partition and projecting above the level thereof, bubble trays above the upper end of said stand pipes for fractionating vapors rising through said stand pipes to form a desired distillate and a reflux condensate, means for maintaining a pool of reflux condensate below the level of the top of said stand pipes, means for withdrawing condensate from said pool, cooling it and spraying it into said vapor space, and means for varying the amount of condensate so sprayed into said vapor space.

1,916,206. WELDING ELECTRODE AND METHOD OF PRODUCING SAME. THOMAS C. DAWSON, Bethlehem, Pa., assignor to Bethlehem Steel Company, a Corporation of Pennsylvania. Filed May 8, 1929. Serial No. 361,536. 13 Claims. (Cl. 219—8.)

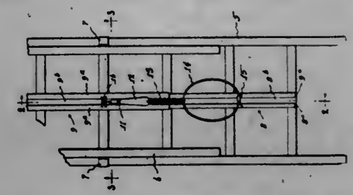
1. A ferrous metal welding electrode the metal of which is impregnated with barium.

1,916,207. AUTOMATIC FILM DEVELOPING MACHINE. MARSHALL DE FRANCISCO and ALFRED T. KUROWSKI, Brooklyn, N. Y. Filed July 21, 1932. Serial No. 623,725. 13 Claims. (Cl. 95—90.5.)



1. An automatic film developer comprising a heat insulated tank, a film reel having a substantially vertical shaft, a spiral film track on said reel, said track being adapted to engage the edges only of a film mounted thereon, means to oscillate said reel in said tank, and means to reciprocate said reel during the oscillation thereof.

1,916,208. EXTENSION LADDER. JULIAN DIOU, Newark, N. J. Filed Feb. 9, 1932. Serial No. 591,870. 5 Claims. (Cl. 228—67.)



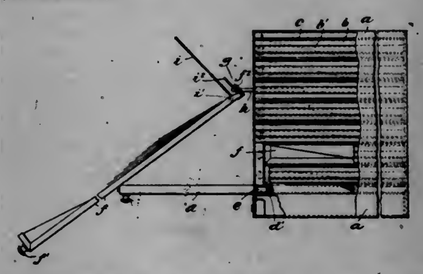
2. An extension ladder including ladders slidably connected, members slidable on each other and secured one to each of the ladders, means adapted to be secured to the body of a person on the ladder and means for slidably securing the last mentioned means to said slidable members.

1,916,209. VISIBLE INDEX. ROLAND A. FURLONG, Rochester, N. Y., assignor to The Yawman & Erbe Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 21, 1930. Serial No. 430,186. 1 Claim. (Cl. 129—34.)



An expansible visible index comprising card trays having complementary hinge members secured to their edges, respectively, an intermediate card tray having two hinge members secured pivotally along one edge, said members being complementary to the first named hinge members, respectively, and removable means to secure the second named hinge members pivotally to the first named hinge members, respectively.

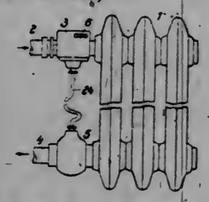
1,916,210. VISIBLE INDEX. ROLAND A. FURLONG, Rochester, N. Y., assignor to The Yawman & Erbe Manufacturing Company, Rochester, N. Y., a Corporation of New York. Original application filed Nov. 26, 1929, Serial No. 409,771. Divided and this application filed Apr. 27, 1931. Serial No. 533,141. 5 Claims. (Cl. 129—16.)



1. In combination with a card tray having a top card hinged thereto at one point, a support for the tray adapted to slide in a cabinet and slidably hinged therewith

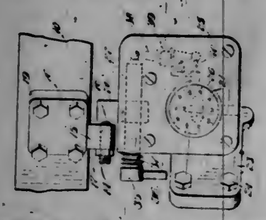
and means carried on the top card and operatively engaged with the support at a point eccentric to the said hinged point between the top card and tray whereby the top card is automatically elevated by engagement of said means with the support when the tray is fully withdrawn from the cabinet.

1,916,211. METER FOR HOT WATER. HEINRICH GAHLER, Dresden-Altstadt, Germany. Filed Feb. 16, 1927, Serial No. 168,698, and in Germany Feb. 19, 1926. 1 Claim. (Cl. 73—184.)



In a calorimeter for water heaters provided with supply and return pipings a measuring apparatus built into the supply piping and a vessel arranged in the return piping, the said measuring apparatus and vessel being partly filled with liquid and partly with gas as expanding media, a connecting piping between the said measuring apparatus and the said vessel, a diaphragm disposed in the said measuring apparatus and influenced bilaterally by the liquid and gaseous expanding media of the said measuring apparatus and vessel, a water meter in the said measuring apparatus, a counter for the said measuring apparatus, and means including variable speed transmission members communicating the movement of the said water meter to said counter, and means operated by said diaphragm to vary said transmission members.

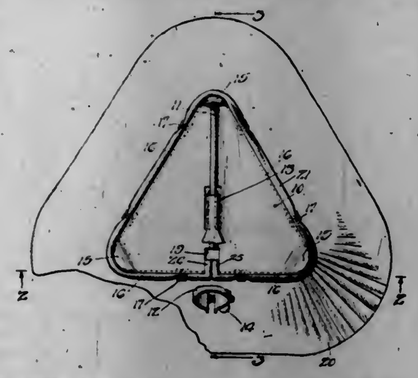
1,916,212. INDICATOR LOCATING DEVICE. KEITH F. GALLIMORE and RAYMOND M. WOYTICH, Fond du Lac, Wis., assignors to Giddings & Lewis Machine Tool Co., Fond du Lac, Wis., a Corporation of Wisconsin. Filed Aug. 16, 1928. Serial No. 299,954. 9 Claims. (Cl. 90—58.)



6. A locating device for rotary tables comprising, in combination with a table, a stop mounted on said table for adjustment tangentially thereto, an indicating mechanism fixed against movement with said table, said mechanism comprising an indicator having an actuating member, a support, a plunger slidably mounted in said support, a dog mounted on said plunger for movement in one direction by said stop, said dog and said stop being relatively adjustable in another direction into and out of position for engagement, and means for translating the movement of said plunger by said stop in said one direction to said member.

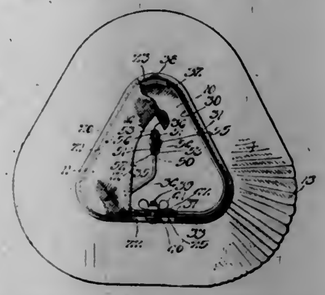
1,916,213. MOP CONSTRUCTION. JOHN GLOVER, Chicago, Ill. Filed Feb. 9, 1931. Serial No. 514,433. 4 Claims. (Cl. 15—229.)

1. A mop head of selected geometrical configuration having a marginal indentation, and a strip of mop material comprising thrums having a binder at one edge thereof, said bound edge of the material being arranged about the periphery of said head with the free ends of



the bound edge extending into the said marginal indentation, the marginal indentation being of a width less than the normal thickness of the free ends of the bound ends of the mop material inserted thereinto.

1,916,214. COLLAPSIBLE MOP HEAD. JOHN GLOVER, Chicago, Ill. Filed Feb. 9, 1931. Serial No. 514,434. 2 Claims. (Cl. 15—229.)



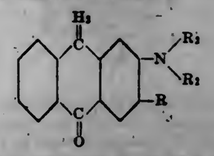
1. In combination, a mop head comprising two strap members having straight and bent sections, said members having such bent portions to provide the extremities of a frame defining a selected shape for the periphery of a mop and being pivoted one to the other beyond their bent frame forming portions, said bent sections being arcuately movable about such pivot to an extended single flat plane in one position and to a narrow V-shaped device in another position, and a mop for use therewith comprising a sheet of flexible material substantially coextensive with the area of the plane of said head when in extended position, a second sheet of the same area as the first and attached to said first mentioned sheet and having a centrally disposed slot not extending entirely across said sheet to form an opening to receive said head when folded into a V-shaped position, and thrums attached to said first mentioned sheet.

1,916,215. COMPOUND OF THE DIPHENYL-METHANE SERIES AND PROCESS OF PREPARING THE SAME. IVAN GUBELMANN, HENRY J. WEILAND, and OTTO STALLMANN, South Milwaukee, Wis., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, a Corporation of Delaware. Filed July 2, 1928. Serial No. 290,027. 9 Claims. (Cl. 260—64.)

4. 3'-amino benzyl ortho benzoic acids.

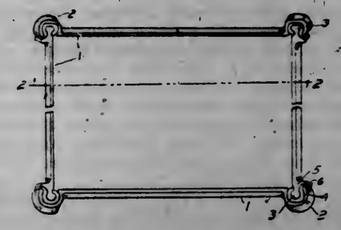
1,916,216. 2-AMINO-10-ANTHRONES AND A PROCESS OF PREPARING THE SAME. IVAN GUBELMANN, HENRY J. WEILAND, and OTTO STALLMANN, South Milwaukee, Wis., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, a Corporation of Delaware. Filed July 2, 1928. Serial No. 290,029. 8 Claims. (Cl. 260—60.)

1. As new products, 2-amino-10-anthrones in a form substantially free from isomers having most probably the following chemical constitution:



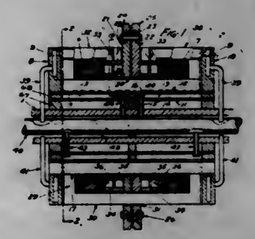
in which R is a hydrogen atom, a halogen, alkoxy or alkyl group and R_1 and R_2 hydrogen atoms or a hydrogen atom and an acyl group or two acyl groups.

1,916,217. FOUNDRY FLASK. FRANK W. HAMEL, Detroit, Mich. Substitute for application Serial No. 438,470, filed Mar. 24, 1930. This application filed Aug. 31, 1932. Serial No. 631,256. 4 Claims. (Cl. 22—96.)



1. In a foundry flask, a pair of walls formed respectively with a channeled head and with an enlargement engaging in said head, said enlargement being connected to the wall carrying it by a relatively reduced neck, and the channel being restricted opposite to said neck, and a substantially C-shaped insert snugly engaged in said channel and embracing said enlargement, whereby said walls are rigidly connected.

1,916,218. ROTARY WELDING TRANSFORMER. THOMAS M. HUNTER, East Orange, N. J. Filed Jan. 12, 1931. Serial No. 508,121. 22 Claims. (Cl. 219—6.)



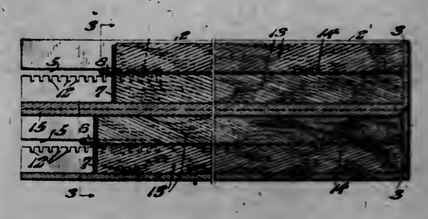
1. A rotary transformer including an annular core, arranged in two spaced sections, a primary and a secondary winding formed of looped conductors placed in intermingled relationship, one with the other, around the core, a two-part electrode wheel positioned between the core sections and forming the terminals of the secondary, means for rotating the transformer, and means for passing current through said primary.

1,916,219. METER BOX. FOSS C. HUSH, Lincoln, Nebr. Filed Jan. 2, 1929. Serial No. 329,798. 8 Claims. (Cl. 247—2.)



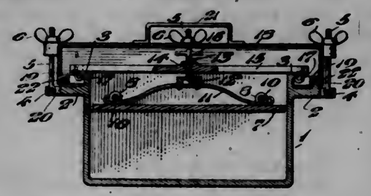
1. A box, comprising a back and top rigid with each other, a cover formed to provide when in place a bottom, sides, and a front for the box, and a panel within said box, said box-back being formed with a longitudinally extending, outwardly concave, cylindrical surface, forming within the box two longitudinally extending channels in rear of said panel, the corners of said panel being cut away to provide access to said channels.

1,916,220. MEAT PACKING DEVICE. HENRY JANSSEN, Philadelphia, Pa., assignor of one-half to Gustave F. Kuhn, Philadelphia, Pa. Filed Sept. 29, 1931. Serial No. 565,763. 2 Claims. (Cl. 100—57.)



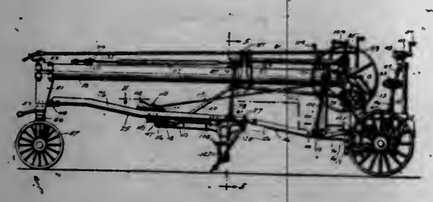
1. A meat packing device comprising a bottom, side walls and an end wall, the front ends of said side walls being provided with toothed horizontal slots and a pusher adapted to close the space between said side walls and having a reduced portion adapted to engage said toothed slots and outer vertical braces for reinforcing the front portions of said side walls.

1,916,221. AIRTIGHT MEAT COOKING CONTAINER AND PROCESSOR. HENRY JANSSEN, Philadelphia, Pa., assignor of one-half to Gustave Kuhn, Philadelphia, Pa. Filed Apr. 14, 1931. Serial No. 529,967. 1 Claim. (Cl. 100—57.)



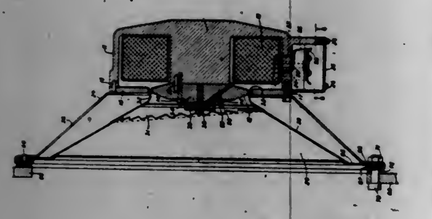
A meat cooker and processor comprising a container having a lower horizontal flange below, and an upper horizontal flange on the rim thereof, a cross bar resting on the top of said container, means on the end of said bar to engage said upper flange, a threaded boss in said bar, a threaded bolt engaging said boss, a spring carried by the lower end of said bolt, a plunger slidably engaging the ends of said spring and adapted to move within said container, a lid for said container, including a pendant flange adapted to rest on and engage said lower flange in an air tight manner, and means for detachably but firmly clamping said lid.

1,916,222. ROAD MACHINE. JAMES B. JARMIN, Dallas, Tex., assignor to Servis Equipment Company, Dallas, Tex., a Corporation of Texas. Filed Mar. 28, 1932. Serial No. 601,532. 11 Claims. (Cl. 37—156.)



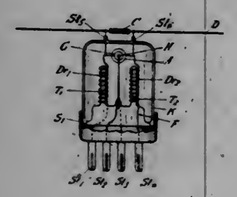
1. In a road machine, a longitudinal pipe reach, a front axle mounted in ground wheels, a support carried by the front axle and secured to the front end of the reach, a surface working tool carried by the reach, an elbow secured to the rear end of the reach, a support rigidly secured to the lower end of the elbow, a rear axle connected with the support, rear ground wheels carrying the rear axle, and a platform connected to the elbow above the support and the rear axle.

1,916,223. SOUND TRANSLATING DEVICE. WALTER KALIN, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 12, 1932. Serial No. 592,498. 16 Claims. (Cl. 181—31.)



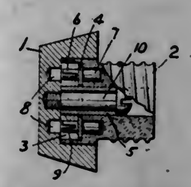
1. An acoustic diaphragm comprising a plurality of obliquely truncated conoidal sections joined at the oblique edges.

1,916,224. SELF-CONTAINED OSCILLATOR TUBE. EDUARD KARPLUS, Berlin-Tempelhof, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Filed Dec. 9, 1929, Serial No. 412,647, and in Germany Jan. 8, 1929. 8 Claims. (Cl. 250—27.5.)



1. An electronic tube comprising a plurality of electrodes within an envelope, current supply leads for said electrodes, and choke coils within the envelope connected in series with two of said leads and high frequency output leads connected to two of the electrodes having leads in series with choke coils.

1,916,225. FASTENING DEVICE. GEORGE C. KAUFFMAN, Philadelphia, and EDWARD J. GALLAGHER, 3d., Doylestown, Pa. Filed June 25, 1932. Serial No. 619,209. 8 Claims. (Cl. 85—1.)



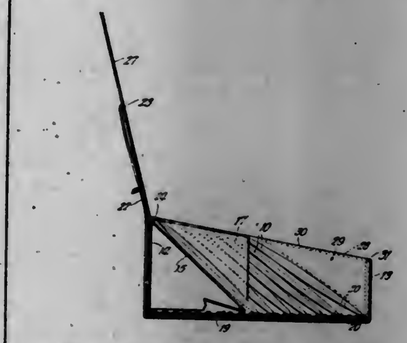
1. In a fastening device the combination of a fastening element of diamagnetic material and adapted for manual turning movement, a threaded element in respect to which the diamagnetic element is turnable, locking means encased by said elements and including a magnetizable bolt element adapted to connect and disconnect said elements.

1,916,226. ZIRCONIUM, SILICON AND ALKALI METAL SOLUTIONS AND METHOD OF MAKING SAME. CHARLES J. KINZIE, Niagara Falls, N. Y., assignor to The Titanium Alloy Manufacturing Company, New York, N. Y., a Corporation of Maine. Filed Oct. 23, 1931. Serial No. 570,767. 17 Claims. (Cl. 23—16.)

1. A method of converting zirconium silicate or zircon into an acid zirconium solution containing silicon and an alkali metal, which comprises heating said zirconium silicate with said alkali to substantially complete decomposition, treating the roasted product with acid in amount less than theoretically required to form normal salts with the zirconium and alkali to solution of silicon and soluble zirconium compounds, and separating the clear acid liquor containing zirconium, silicon and said alkali metal in solution.

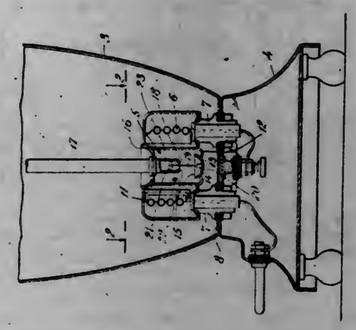
16. As a new article, a nitrate zirconium solution having silicon and alkali metal salts in solution and no free acid.

1,916,227. MERCHANDISE DISPLAY. HEINZ G. LORENZEN, Chicago, Ill., assignor to Kitchen Art Foods, Inc., Chicago, Ill., a Corporation of Delaware. Filed July 13, 1931. Serial No. 550,419. 4 Claims. (Cl. 206—44.)



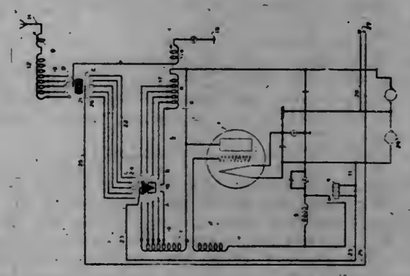
4. As an article of manufacture, the combination comprising a display container, a plurality of thin packages having different contents arranged one in front of the other and of a length to extend to the bottom of the container, a support for holding said packages at an angle to the bottom of the container, and a corrugated sheet in the bottom of said container presenting ribs parallel to the lower edges of said packages and engaging the same to hold said packages independently from slipping down into said container.

1,916,228. PERCOLATOR PUMP. LOUIS V. LUCIA, Rome, N. Y., assignor to Revere Copper and Brass Incorporated, a Corporation of Maryland. Filed Aug. 14, 1930. Serial No. 475,272. 16 Claims. (Cl. 219—44.)



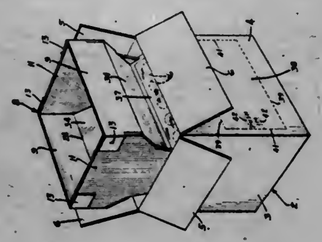
1. A percolator which comprises, a receptacle for liquid, a well within said receptacle adapted to contain a portion of said liquid, means disposed about the outside of said well for heating the liquid in said well, a valve-controlled inlet at the bottom of said well for the introduction of said liquid thereinto, and outlet means in said well for the discharge of heated liquid therefrom.

1,916,229. RADIO TRANSMITTER SYSTEM. HERMAN P. MILLER, Jr., East Orange, N. J., assignor to International Communications Laboratories Inc., New York, N. Y., a Corporation of New York. Filed July 1, 1930. Serial No. 465,201. 5 Claims. (Cl. 250—17.)



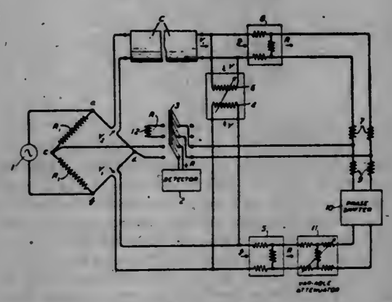
1. In a radio frequency generator system, a resonant circuit, a switch therein for varying the resonating frequency thereof and having a plurality of taps connected to said circuit, an oscillation generator connected to said circuit, means for controlling said oscillation generator, a load circuit coupled to said resonant circuit, a switch in said load circuit for varying the resonating frequency thereof and having a plurality of taps connected to said load circuit, and circuits including said switches for causing said first-named means to control said oscillation generator only when said switches are set on taps causing said resonant and load circuits to oscillate at the same resonating frequency.

1,916,230. COMBINATION FEEDER AND SHIPPING CARTON. ARTHUR J. MURRAY, Minneapolis, Minn. Filed July 23, 1932. Serial No. 624,242. 12 Claims. (Cl. 229—7.)



1. In a device of the class described, an outer inclosing member, an insert removably fitted into said enclosing member and comprising a plurality of walls, one of which has a feed opening therein, means on said walls for retaining them in operative positions when the insert is fitted into said enclosing member, said means being dependent upon the walls of the outer enclosing member for their operation, and means by which said feed opening may be exposed to convert the device into a feeder.

1,916,231. MEASUREMENT OF ELECTRICAL CHARACTERISTICS OF TRANSMISSION CIRCUITS AND NETWORKS. HENRY G. OCH, New York, and FOSTER A. HINSHAW, St. Albans, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 26, 1932. Serial No. 630,518. 5 Claims. (Cl. 179—175.3.)

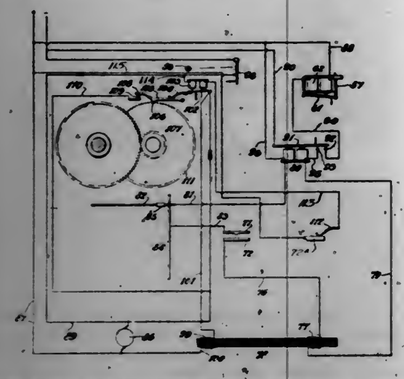


1. The method of determining the propagation constant of an electrical circuit which consists in first measuring the iterative impedance of said circuit, effectively terminating said circuit in its iterative impedance, and then measuring the attenuation and phase shift produced in electrical waves transmitted through said circuit so terminated to obtain the real and imaginary components of the propagation constant.

1,916,232. RECORD ANALYZING MECHANISM. ROBERT E. PARIS, New York, N. Y. Filed July 24, 1929. Serial No. 380,687. 10 Claims. (Cl. 235—92.)

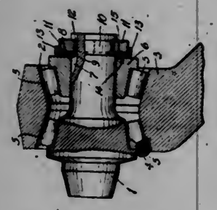
1. In a record controlled accounting machine, an analyzer for minutely punctured records comprising a record-

analyzing chamber, a plurality of discharge points at one side of said chamber and including a discharge point for each column of the record, a plurality of discharge points arranged at the opposite side of said chamber and including a discharge point for each of the first said dis-



charge points and arranged opposite thereto and constantly separated therefrom, and means for effecting jumping of electric current between respective pairs of discharge points through the minute punctures in the records for analyzing the records.

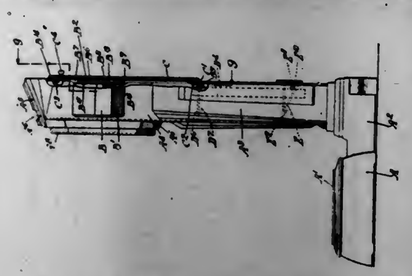
1,916,233. BEARING POSITIONING MEANS. ROBERT M. RIBLET, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed June 16, 1932. Serial No. 617,564. 1 Claim. (Cl. 287—53.)



A bearing positioning means comprising a shaft having a seat for an inner bearing member, said shaft having a longitudinal groove extending outwardly from said seat for said inner bearing member and having an annular groove communicating with said longitudinal groove, half-rings mounted in said annular groove, one of said half-rings having a tongue projecting into said longitudinal groove, and a washer interposed between said half-ring members and said seat for said inner bearing member, said washer having prongs engaging the outer periphery of said half-ring members to hold them in place and also having a tongue extending into said longitudinal groove.

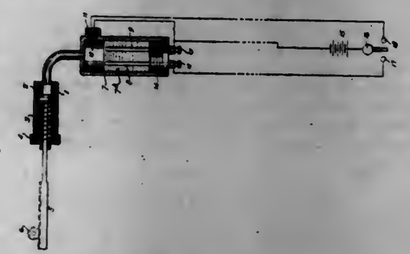
1,916,234. SCALE. DAVID C. ROCKOLA, Chicago, Ill. Filed Jan. 22, 1931. Serial No. 510,340. 9 Claims. (Cl. 194—1.)

6. In a scale structure, a housing, a weighing mechanism within the upper portion of said housing, a removable closure for the upper portion of said housing, a coin slot in said housing, a coin guiding passage member positioned within said housing and in communication with said slot, a transverse partition in said housing below said weighing mechanism, the coin guiding passage member terminating at a level below said partition and being adapted to discharge coins thereheneath, and securing means for said partition located beneath said partition and inaccessible from the upper portion of said housing, and a second removable closure for said housing positioned



at a level lower than said transverse partition, the securing means for said transverse partition being accessible to the lower portion of the housing beneath said partition.

1,916,235. REMOTE CONTROL DEVICE. SAMUEL RUBEN, New Rochelle, N. Y. Filed Oct. 24, 1929. Serial No. 402,294. 2 Claims. (Cl. 60—1.)



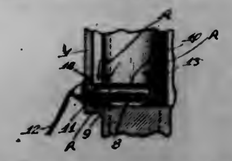
1. A system for obtaining a rapid remote control which comprises the combination of an electrolytic chamber containing electrodes and a solution capable of rapidly giving off oxygen and hydrogen when electrolyzed, a piston chamber connected to said electrolytic chamber and housing a piston movably responsive to the pressure generated in said chamber and adapted to control the movement of an exterior rotary motion device, a heater wire to recombine the generated gases located within said electrolytic chamber, and means for selectively energizing the electrodes of said electrolytic chamber or the said heater wire.

1,916,236. METHOD OF PRECIPITATING TITANIUM COMPOUNDS. LONNIE W. RYAN, Merrick, N. Y., assignor to Titanium Pigment Company, Inc., New York, N. Y., a Corporation of Maine. Original applications filed Mar. 27, 1928, Serial Nos. 265,213 and 265,214, now Patents Nos. 1,820,987 and 1,820,988, dated Sept. 1, 1931, and in Germany Mar. 15, 1929. Divided and this application filed June 13, 1931. Serial No. 544,285. 19 Claims. (Cl. 23—202.)

1. In the precipitation of titanium compounds by hydrolysis from a mineral acid solution containing titanium, the steps which consist in dissolving an organic acid in said solution, and thereafter adding the resultant solution to hot water.

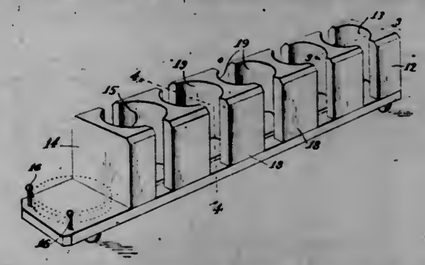
1,916,237. HEATER. JOHN F. SLOAN, Peoria, Ill. Filed Apr. 19, 1929. Serial No. 356,391. 2 Claims. (Cl. 219—38.)

1. The combination with an internal combustion engine having a water jacket, of a heater in said water jacket comprising an electrical heating element which causes the water heated thereby to rise in the jacket, and means for causing a relatively high rise in temperature in the water adjacent said heating element comprising retarding means for retarding the rise of the heated wa-



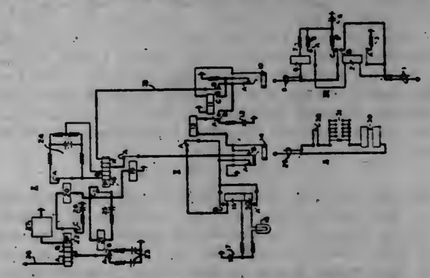
ter, said retarding means comprising a housing about said heater insulated from the heater circuit and having a restricted opening to permit a restricted upward flow of the water.

1,916,238. DISPLAY CABINET. ALBERTA L. SOFFEL, Los Angeles, Calif. Filed Jan. 3, 1930. Serial No. 418,190. 2 Claims. (Cl. 206—72.)



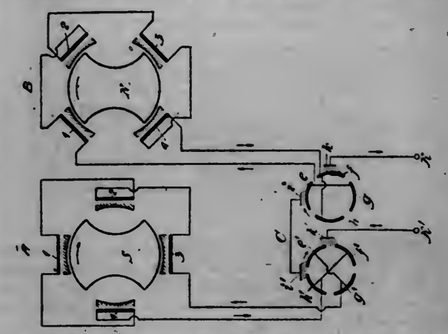
1. A display cabinet, comprising an elongated base panel, blocks fixed on top of said panel adjacent to its ends, the inner faces of which fixed blocks are provided with substantially semi-circular recess, a plurality of partition blocks adjustably mounted on the top of the base panel between said fixed blocks, the front and rear faces of which partition blocks are provided with semi-circular recesses which cooperate with each other and with the recesses in the fixed blocks to form a plurality of vertically disposed compartments, said base panel being provided between the fixed blocks with longitudinally disposed parallel slots and screws passing upwardly through said slots and seated in the lower portions of said partition blocks for securing the same to the base panel in differently adjusted positions.

1,916,239. LINK CIRCUIT FOR INTERCONNECTING TELEGRAPH TOLL LINES. GILBERT S. VERNAM, Hackensack, N. J., assignor to International Communications Laboratories, Inc., New York, N. Y., a Corporation of New York. Filed May 21, 1931. Serial No. 538,982. 11 Claims. (Cl. 178—71.)



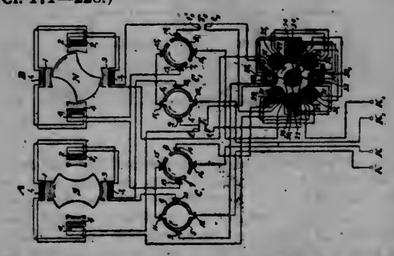
1. In a telegraph system, a pair of telegraph channels each having associated therewith a terminal telegraph repeater provided with a normally closed local loop circuit, a source of current of the same polarity for each of said loop circuits, a link circuit for interconnecting said loops, and means responsive to said interconnection for connecting said loop circuits in a single closed circuit.

1,916,240. ELECTRIC MACHINE. BALTZAR CARL VON PLATEN and LARS ARVID GUNNAR REILAND, Stockholm, Sweden. Filed Oct. 16, 1928, Serial No. 312,913, and in Sweden Oct. 24, 1927. 25 Claims. (Cl. 171—228.)



2. A dynamo electric machine having at least two axially displaced open-coil generating windings and the axis thereof parallel to the axis of rotation, separate commutators connected to and corresponding in number of said generating windings, a rotor having axially displaced poles, stationary field windings surrounding said rotor, motor windings co-axial with said generating windings and commutating means for applying a certain unidirectional voltage to said motor windings and inductively producing a plurality of alternating voltages equal to zero for a definite interval in said generating windings, said interval being utilized for changing over the generating windings so that a unidirectional voltage of different value than the voltage applied is obtained.

1,916,241. ELECTRIC MACHINE. BALTZAR CARL VON PLATEN, Stockholm, Sweden. Filed Dec. 20, 1930, Serial No. 503,711, and in Sweden Dec. 23, 1929. 14 Claims. (Cl. 171—228.)

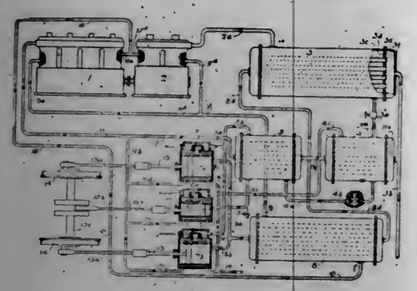


1. In a device of the class described, a plurality of windings adapted to operate as primary and secondary windings, commutators connected thereto and adapted to periodically reverse the connections to said windings, a commutating generator for compensating for the no load primary current of said device and a separate commutating generator adapted to set up a voltage for assisting commutation, said generators having exciting windings connected respectively in series with the paths of the main primary and secondary currents of said machine.

1,916,242. RAILWAY MOTOR. DAVID T. WILLIAMS, New York, N. Y. Filed Mar. 8, 1929. Serial No. 345,542. 6 Claims. (Cl. 60—14.)

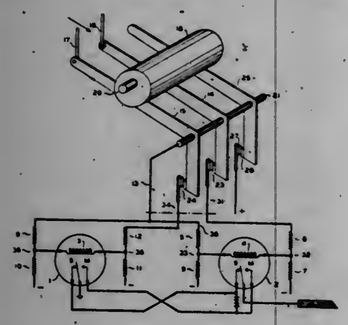
1. The combination of an air motor; an air storage receptacle; means for supplying air under pressure to the

receptacle including an internal combustion engine; means for cooling the air in the receptacle to permit the storage of an increased quality of air within said receptacle; means for transmitting air from the receptacle to the



air motor; means for heating the air during its transmission from the receptacle to the motor; and means whereby the cooling and heating mediums are supplied from the respective exhausts of the air motor and internal combustion engine.

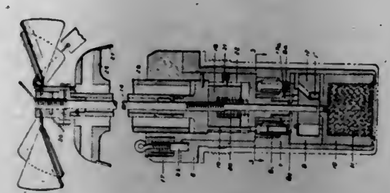
1,916,243. TELEGRAPH SYSTEM. HARRY WOOD, Brooklyn, N. Y., assignor to International Communications Laboratories, Inc., Newark, N. J., a Corporation of New York. Filed Jan. 14, 1932. Serial No. 586,577. 8 Claims. (Cl. 178—17.)



1. In an automatic telegraph transmitter, the combination with a pair of contact levers, carrying pins respectively adapted to pass through the dot and dash perforations of a signal tape, of an auxiliary contact lever, a line, a pair of relays and potentiometer means associated in a circuit comprising said relays and contact levers, said relays being effective when the auxiliary lever is operated together with one of the pair of levers to put positive battery on said line and when the auxiliary lever is operated together with the other of the pair of levers to put negative battery on said line, and when the auxiliary lever is operated alone to ground said line.

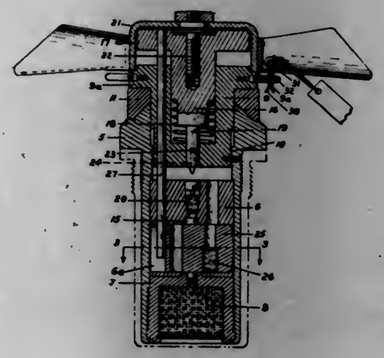
1,916,244. FUSE FOR PROJECTILES. DAVID L. WOODBERRY, Baltimore, Md., assignor to Secretary of War of the United States of America. Filed Sept. 20, 1926. Serial No. 136,660. 9 Claims. (Cl. 102—36.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

1. A fuse including a body, a plurality of powder trains arranged in the body and adapted to afford varying burning intervals, a plunger disposed over the powder trains, a plunger spring, a firing pin carried by the plunger, means for selectively setting the firing pin to strike one of the



powder trains on impact, means whereby the firing pin may be held in set position and means removable during flight for arming the plunger.

1,916,245. FUSE. DAVID L. WOODBERRY, Baltimore, Md., assignor to Secretary of War of the United States of America. Filed Sept. 20, 1926. Serial No. 136,662. 6 Claims. (Cl. 102—39.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

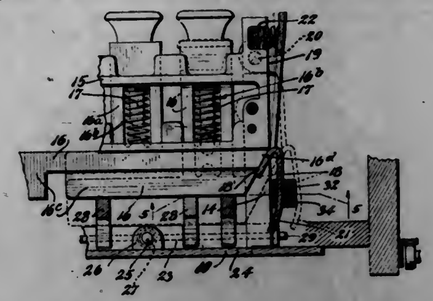


1. A nose fuse for bombs including a body, a delay and an instantaneous powder train in the body, the delay train arranged axially of the body, a fuse head including a fixed firing pin positioned above the instantaneous train and having a threaded connection with the body adapted to be stripped on heavy impact, a resistance ring interposed between the head and body and adapted to be crushed on heavy impact, a pressure plate having a stem disposed in the fuse head and mounted for longitudinal movement with respect thereto, a firing pin on the stem, and a vane assembly normally holding the plate in unarmed position and unthreadable therefrom during flight to arm the plate.

1,916,246. MONEY DELIVERING MACHINE. STEPHEN J. BACHARDY, Allentown, Pa., assignor to Kwicway Money Changer Corporation of Delaware. Filed Feb. 3, 1930. Serial No. 425,472. 16 Claims. (Cl. 133—4.)

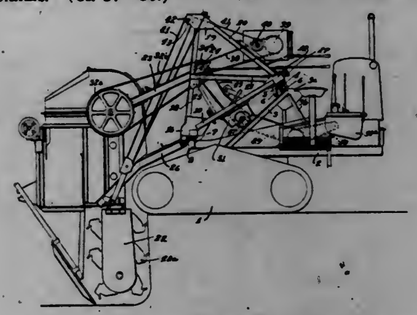
1. In a money paying machine of the class described, a drawer, a support for the drawer, a coin magazine mounted in said drawer having coin ejectors therefor, a selector unit for controlling said ejectors including manipulating

keys and selector bars, latch plates at the ends of said bars for holding the operated selector bars, actuating means for said ejectors controlled by said selector bars



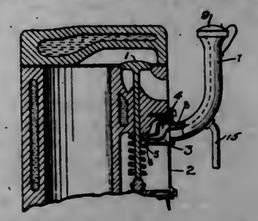
and release means controlled by said actuating means and engageable with said latch plates to release the same incident to actuation of the ejectors.

1,916,247. LATERALLY SHIFTABLE DIGGING BOOM. HARRY H. BARBER, Aurora, Ill., assignor to Barber-Greene Company, Aurora, Ill., a Corporation of Illinois. Filed Aug. 7, 1931. Serial No. 555,764. 6 Claims. (Cl. 37—86.)



2. In a ditching machine including a frame, a carriage mounted upon said frame, means for shifting the carriage transversely upon said frame, a digging boom including a bucket chain pivotally supported upon said carriage for elevating and lowering movements, driving mechanism on said carriage and frame for driving said bucket chain including a slidable element on said frame and a connection between said carriage and element.

1,916,248. LUBRICATOR. GEORGE A. BARKER, Rochester, N. Y. Filed Nov. 23, 1931. Serial No. 576,798. 22 Claims. (Cl. 184—6.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

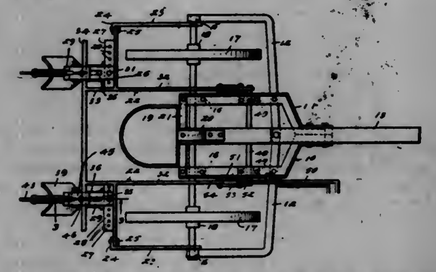


1. In an engine provided with poppet valves, means for jetting a liquid lubricant on the stems of the valves and means for transversely passing lubricant vapors from the engine over the stems of the valves.

1,916,249. CATALYST. MAURICE E. BARKER, U. S. Army, Cambridge, Mass. Filed Sept. 5, 1928. Serial No. 304,162. 4 Claims. (Cl. 23—233.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

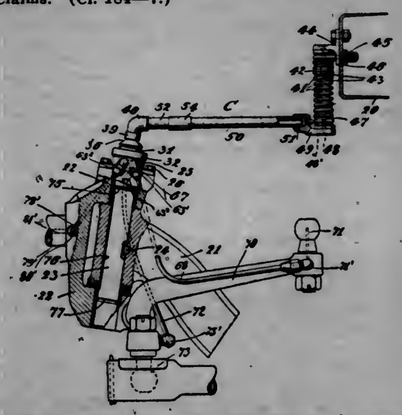
1. A catalyst comprising a base portion formed of an alloy containing copper, iron and manganese, said base portion having intimately formed on the surfaces thereof a metallic porous spongy mass of a mixture of the metals constituting the alloy.

1,916,250. UNIVERSAL MARKER. JOHN J. BERTORELLO, Montrose, Colo., assignor to Alex Boyer, Delta, Colo. Filed May 27, 1930. Serial No. 456,164. 3 Claims. (Cl. 97—55.)



1. A universal marker of the character described comprising an inner and an outer frame member, a transversely disposed shaft secured to said frame members, a pair of wheels rotatably mounted on said shaft, a pair of collars mounted on said shaft and engaging against the opposite ends of the hubs of said wheels whereby to adjustably position said wheels upon said shaft, a pair of rearwardly extending frames secured to said shaft, an outwardly extending plate secured to each of said frames intermediate the ends thereof, said plate having a plurality of spaced apertures therethrough, a segmental slotted marker frame adjustably positioned on said plate, a forwardly extending arm secured at the rear end thereof to said rearwardly extending frames, adjustable rocking means secured to the forward end of said forwardly extending arm, and a pair of marker members adjustably positioned on said marker frame.

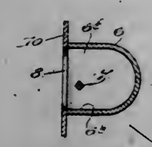
1,916,251. LUBRICATION. JOSEPH BIJUR, New York, N. Y., assignor, by mesne assignments, to Auto Research Corporation, a Corporation of Delaware. Filed Nov. 5, 1923, Serial No. 672,870. Renewed Sept. 16, 1930. 21 Claims. (Cl. 184—7.)



1. In a front wheel construction of the type including a knuckle having an integral spindle, a road wheel journaled

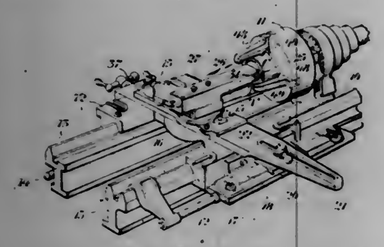
thereon, and a cap for the hub of said wheel enclosing the end of the spindle; the combination therewith of means for supplying lubricating oil for said spindle, said means comprising a longitudinal duct through said spindle, and an inlet near the base of said spindle for supplying lubricant to said duct.

1,916,252. TANK LADDER. HARRY C. BOARDMAN, Chicago, Ill., assignor to Chicago Bridge & Iron Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 3, 1932. Serial No. 590,767. 10 Claims. (Cl. 228—46.)



1. A tank having a vertical row of apertures in one wall; foot supports supported from said wall lying entirely outside of the inner surface thereof, said apertures permitting the placing of a foot on said supports; and a box or boxes on the outside of the wall covering said apertures.

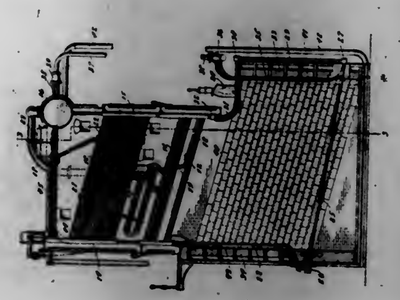
1,916,253. DEVICE FOR ROTARY CUTTING AND THE LIKE. JOHN J. BUCKLEY, Chester, Pa. Original application filed Feb. 18, 1925, Serial No. 9,929. Divided and this application filed Mar. 31, 1931. Serial No. 526,745. Renewed Apr. 7, 1932. 4 Claims. (Cl. 82—1.)



4. A boring device comprising a bar with holders for oppositely pointing cutters at different positions in its length for operating in opposite ends of a coupling, an actuator member with oppositely inclined cam portions engaged with said holders so as to move them transversely both ways, into and out of the bar, a stop lug on the actuator member intermediate the cutter holders to limit the range of movement of the latter as well as that of said member, and an adjustable stop at the outer end of the bar to determine the normal cutting position of the cutters as well as to accommodate variations in the size of couplings operable upon within the capacity of the tool.

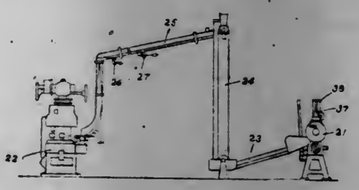
1,916,254. STEAM BOILER. HENRY W. BUTLER, New York, N. Y., assignor, by mesne assignments, to Fuller Lehigh Company, a Corporation of Delaware. Filed June 20, 1924, Serial No. 721,188. Renewed Dec. 17, 1931. 15 Claims. (Cl. 122—235.)

1. A boiler having a steam and water drum and water tubes connected to said drum and arranged to cause the boiler water to circulate between the drum and the tubes when the tubes are heated, a furnace to supply heated gases to the boiler tubes, horizontally inclined cooling tubes extending across the furnace, a horizontal header at each end of said cooling tubes and connected thereto, a plurality of upwardly extending tubes connected to the header at the high end of said cooling tubes and adjacent the inner face of one of the furnace walls, connections between the upper ends of said upwardly extending tubes and the boiler, connections outside the furnace chamber between the boiler and the horizontal header at the low end of said cooling tubes, and a plurality of wall cooling



tubes extending upwardly adjacent the inner face of that wall of the furnace chamber at the low ends of the horizontally inclined cooling tubes and having their lower ends connected to the horizontal header at the low ends of the horizontally inclined cooling tubes and their upper ends connected to the boiler.

1,916,255. ELECTRICAL CONTROL FOR CAN MAKING MACHINERY. WALTER K. CABOT, Montclair, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 8, 1930. Serial No. 480,393. 7 Claims. (Cl. 113—7.)

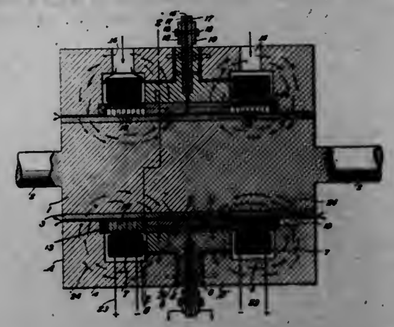


1. In an electrical control, the combination of a can feeding runway for can parts connecting with a can making machine, feeding control means associated with said machine for regulating the feeding of can parts thereto, an oscillating switch housing adjacent said runway and containing a liquid movable by gravity for making and breaking an electrical circuit connecting with said control means, and trip instrumentalities located in said runway ond connecting with said switch housing whereby actuation thereof by can pasts within said runway oscillates said switch housing and through said electrical circuit controls the feeding of can parts by said runway to said machine.

1,916,256. HOMOPOLAR GENERATOR. PIERRE L. CHANDEYSSON, St. Louis, Mo. Filed Sept. 5, 1930. Serial No. 479,984. 3 Claims. (Cl. 171—212.)

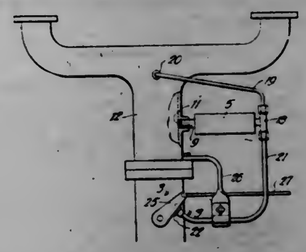
3. A homopolar motor comprising a rotor formed as a cylindrical member of magnetic material surrounded by a sheathing of non-magnetic material, a stator formed with a circumferential chamber containing a coil, a ring member forming a closure for the chamber, a second ring member located within the confines of said first named ring member and formed with transverse grooves, an abutment ring of insulating material located within the

chamber, brushes located within the chamber inwardly of and connected with said coil and abutting against said last named ring and bearing against said sheathing, and



separating members located between the brushes and having reduced stems located within the grooves in the second named ring.

1,916,257. AIR SUPPLY DEVICE. JOHN J. DUBINA, Cicero, Ill. Filed Apr. 9, 1932. Serial No. 604,167. 16 Claims. (Cl. 123—124.)

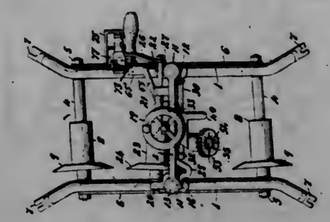


1. In a device of the class described, the combination of a valve operatively related to the intake manifold of an internal combustion engine for controlling the passage of air thereto, means communicating with said manifold and operatively related to said valve for opening the valve by and according to the auction produced in the cylinders of the engine, and means for rendering said auction inoperative to open said valve, said last mentioned means comprising a second valve adapted to be engaged by the control means of a carburetor associated with said manifold, and a conduit operatively related to said second valve and to said first mentioned means.

1,916,258. TIRE GROOVER. WILLIAM F. EBRIG, Philadelphia, and GEORGE M. PFUNDT, Churchville, Pa. Filed Sept. 26, 1932. Serial No. 634,818. 25 Claims. (Cl. 82—4.)

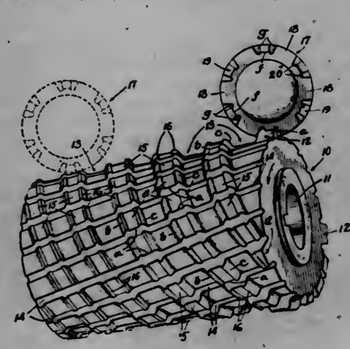
1. In a tire groover the combination of a plurality of freely-rotative tire-supporting rollers the axes whereof are parallel, a spaced drive roller the axis of which is angularly-directed relative to the axes of the supporting rollers, means whereby the drive roller is adjustable relative to the supporting rollers to effect rotation of the tire a tool for cutting grooves in the thread of the tire, and means whereby said drive roller is rotated to effect grooving of the tire.

22. A tire groover comprising spaced standards, a plurality of horizontally-disposed obliquely-arranged flanged-rollers journaled between said standards at a low level thereof, a carriage guided in the upper part of the standards and affording bearing for a cylindric drive roller the axis whereof is reversely oblique relative to the axes of the lower rollers, said rollers jointly serving to rotatively-sustain the tire, means for raising and lowering the carriage to respectively insert a tire in the groover and to frictionally engage the drive roller on said tire, opposedly-directed pendent arms on the carriage having downwardly-converging axes for coned rollers engageable against one side of the tire to maintain said tire rotative in a vertical plane, a tool holder for cutting grooves circumferentially of the tire laterally movable along the carriage, means for clamping said



holder relative to the tire-tread lateral-center, an index on the holder, a co-acting groove spacing scale arrestable relative to the tool holder index, a micrometrically-adjustable cutter in the tool holder for determining the depth of the grooves cut universally-movable compressive means pivotally supported by the carriage aforesaid adapted to engage tht inner surface of the tire proximately below the cutter and drive roller and means whereby the drive roller is rotatable to frictionally revolve the tire during the grooving operation.

1,916,259. HOB. OTTO F. EWERT, Genoa City, Wis. Filed Aug. 3, 1931. Serial No. 554,626. 10 Claims. (Cl. 29—103.)

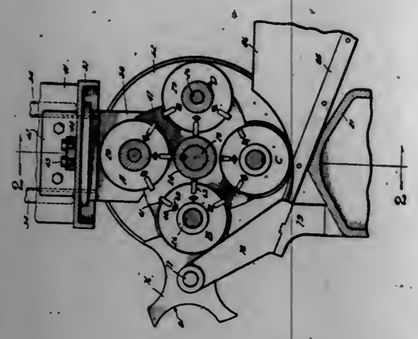


3. A multiple-thread generating hob having a plurality of generally longitudinally gashes, and a plurality of helical grooves intersecting the gashes to form a plurality of threads of constant lead each comprising a plurality of convolutions of relieved finishing teeth, the threads decreasing in depth from one end to the other and being constant in width at the pitch line.

1,916,260. COLLAR AND CAN ASSEMBLING MACHINE. NELSON GEERTSEN, Chicago, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 23, 1929. Serial No. 394,475. 9 Claims. (Cl. 113—1.)

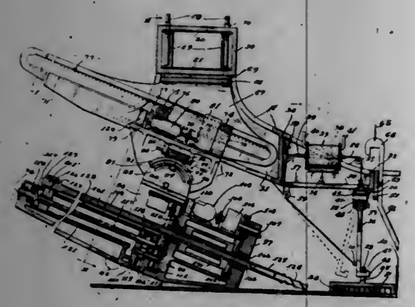
1. In a machine of the class described, the combination of means for arranging a flanged can body and a collar in axial alignment, a chuck mounted adjacent said arranging means and having movement in axial alignment therewith, said chuck having an annular collar support-

ing surface, means for moving said chuck along its axis to initially introduce its supporting surface within the collar and thence to insert the collar into the flanged end



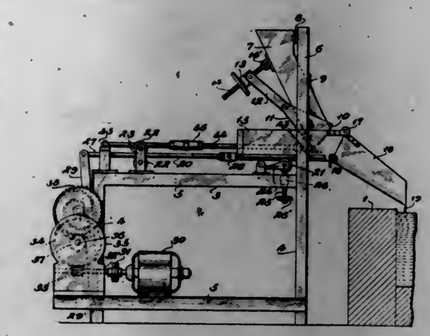
of the can, and devices cooperating with said supporting surface for securely holding said collar on the chuck during such insertion.

1,916,261. TAPPING HOLE DRILLING APPARATUS FOR BLAST FURNACES. AUGUST F. GIESE, Jr., Gary, Ind. Filed Apr. 9, 1932. Serial No. 604,186. 28 Claims. (Cl. 266—42.)



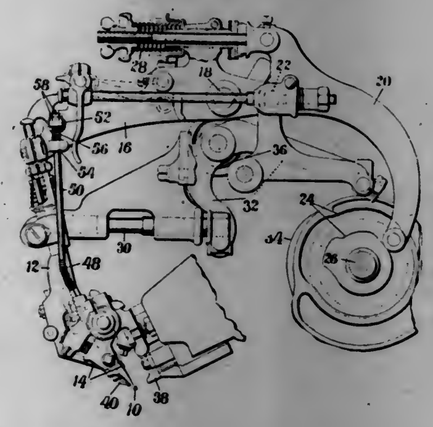
7. In tapping hole drilling apparatus, the combination of a movable support therefor, a carriage shiftable on said support, a drill structure supported by said carriage and incorporating a drill and driving means therefor, power means controllable from a remote point for moving said supporting structure to position the drill structure in front of a tapping hole, and driving means for said carriage controllable from a remote point for shifting said carriage for positioning of said drill structure to drilling position.

1,916,262. METHOD AND APPARATUS FOR FEEDING BATCH MIXTURES TO FURNACES. ROBERT GOOD, Washington, Pa., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va., a Corporation of West Virginia. Filed Apr. 12, 1928. Serial No. 269,447. 14 Claims. (Cl. 49—63.)



14. A batch feeder for glass furnace including a chute movable back and forth over the surface of the glass, means for spreading the batch on the glass in a thin even layer as the chute moves rearwardly, and means floating the layer bodily forward into the furnace as the chute moves forwardly.

1,916,263. MACHINE FOR SHAPING UPPERS OVER LASTS. GEORGE GODDU, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 28, 1930. Serial No. 478,423. 25 Claims. (Cl. 12—2.)



23. In a machine of the class described, the combination with means for pulling the upper of a shoe over a last, of a device movable under control of said upper-pulling means into and out of position to penetrate the bottom of the shoe for controlling the shoe.

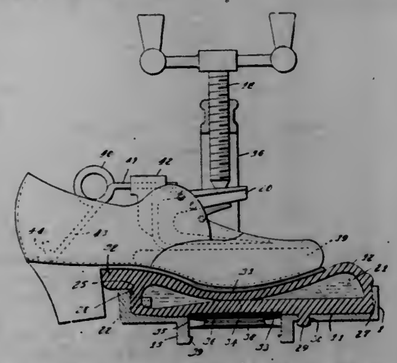
1,916,264. WEAR RESISTING CUSHION HEEL. MARTIN H. GRANT, Los Angeles, Calif. Filed Apr. 13, 1931. Serial No. 529,592. 9 Claims. (Cl. 36—75.)

1. A wear resisting cushion heel comprising a heel body provided with a bottom face and an upper face, said heel body being adapted to be secured to a shoe with said upper face in engagement with the sole of said shoe, said heel body being provided with a slot extending forwardly from adjacent the rearward edge portion of said lower face and upwardly to and through said upper face, a substantially T shaped resilient metallic wear resistant element having a stem portion removably inserted forwardly and upwardly within and through said slot and



a laterally extending wear resisting portion positioned below the bottom face of said heel body between the rearward edge of said heel body and the rearward end of said slot, the forward end of said stem portion of said element being so shaped as to frictionally engage the upper face of said heel body and the sole of said shoe when so inserted and when the heel body is in place on a shoe whereby said element is maintained in said slot.

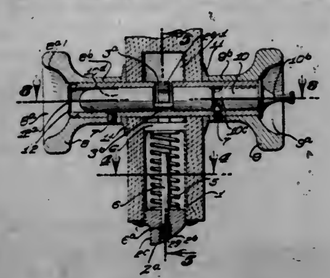
1,916,265. SHOE PRESS. ERIK A. HAMMARSJO, Rockford, Ill. Filed Dec. 8, 1930. Serial No. 500,690. 23 Claims. (Cl. 12—38.)



19. In a shoe press comprising means for placing a shoe under pressure, a support for the shoe, and cushion pad means on said support comprising spaced top and bottom walls of resilient material extending outwardly beyond the marginal edges of the shoe bottom and having a fluid cushioning material in the space therebetween, the top wall being flexible toward the bottom wall and the latter being rigidly supported, said walls being normally close enough to permit engagement of the top wall with the bottom wall when the shoe resting thereon is placed under pressure, and said walls being of sufficient thickness whereby when the same are brought together they serve as a solidly supported cushion of resilient material throughout the area of their engagement.

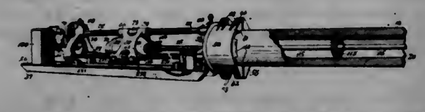
1,916,266. DOORLOCK. JAMES HILLGREN and CARL HILLGREN, San Diego, Calif., assignors to J. C. Manufacturing Co., a Corporation. Filed June 16, 1930. Serial No. 461,452. 10 Claims. (Cl. 70—91.)

2. In a door lock arranged to fit within an annular cylindrical recess formed at the edge of a door, and a similar intersecting opening passing through said door, a cylindrical bolt casing arranged to fit in said recess, a latch bolt mounted within said bolt casing, a hollow spindle extending through said opening and transversely through said casing, said latch bolt comprising a head portion arranged to protrude from said casing, and an integral closed loop portion extending inwardly therefrom around said spindle, a crank portion formed by said spindle engageable with said loop portion for forcing said latch bolt into said casing, and a locking bar extending through said spindle and through said loop portion, said spindle provided with an aperture therein, at said crank portion, an eccentric portion disposed intermediate the ends of said



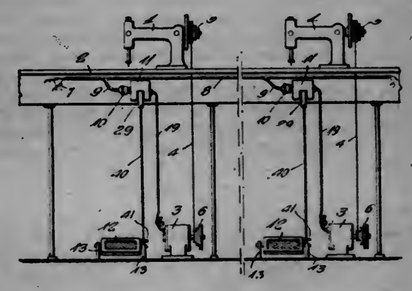
locking bar and exposed by said aperture, and a hook portion carried by said latch bolt and protruding into said loop portion, said hook portion arranged to be engaged by said eccentric portion and be held thereby against the action of said spindle.

1,916,267. APPARATUS FOR GRINDING GUN BARRELS AND CYLINDRICAL SURFACES. MARSDEN C. HUTTO, Detroit, Mich., assignor to Hutto Engineering Company, Inc., Detroit, Mich., a Corporation of Michigan. Filed July 22, 1930. Serial No. 469,802. 27 Claims. (Cl. 51—34.)



1. A tool for grinding a cylindrical surface comprising a body having an inner longitudinal tube, disks mounted on opposite ends of said inner tube, an outer tube surrounding said inner tube and bearing at its opposite ends against the opposing inner sides of said disks, a head arranged at one end of said inner tube and engaging with the outer side of one of said disks, and a screw nut arranged on the opposite end of said inner tube and engaging with the outer side of the other disk; a plurality of stone holders arranged in an annular row around said body; and means for increasing and decreasing the working diameter of said stone holders.

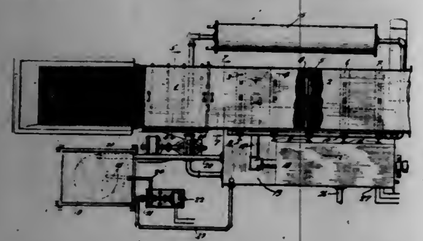
1,916,268. CONTROL SWITCH FOR ELECTRIC SEWING MACHINES. ELIAS KHAYAT, Brooklyn, N. Y. Filed July 29, 1931. Serial No. 553,855. 3 Claims. (Cl. 200—153.)



1. A switch comprising a box provided with an opening at the side thereof, plug blades passing through said opening, said blades being of conducting material, a con-

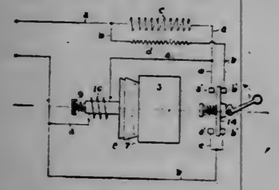
tact member pivoted to one blade, a terminal located in the path of movement of one end of the contact member, a spring urging the said end of the contact member toward the terminal, a lever arm movable in engagement with the contact member to space the end thereof from the terminal, a spring for retaining the lever arm at normal position and a treadle connected with the lever arm.

1,916,269. APPARATUS FOR TREATING AND PEELING FRUITS. WILLIAM A. KINGSBURY, Hayward, Calif., assignor to Sprague Sells Corporation, Hoopeston, Ill. Filed June 6, 1928. Serial No. 283,241. 14 Claims. (Cl. 146—47.)



13. An apparatus for treating fruits to permit easy removal of the skins comprising means for moving a mass of fruit through a predetermined path, a tank having a closed bottom located over said path, and having a lip across the path for converting a supply of disintegrating solution into a continuously moving substantially unbroken film having neither hydrostatic or head pressure to intercept the mass of moving fruit and contact therewith to coat the same, spray means for then removing the disintegrated skins.

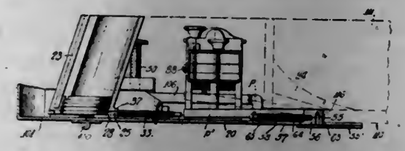
1,916,270. INDUCTION MOTOR. FREDERICK S. KINGSTON, Warren, Ohio, assignor, by mesne assignments, to The Oakwood Electrical Manufacturing Company, a Corporation of Ohio. Filed Feb. 27, 1930. Serial No. 431,750. 4 Claims. (Cl. 172—278.)



2. In an induction motor, a main field winding and an auxiliary starting winding, an electro-magnet having a winding connection in series relations with said main field winding and constructed to substantially reduce the inrush of current and to aid time-phase displacement of current in starting the motor, normally-engaged power-transmitting clutch members adapted to be disconnected by said electro-magnet to permit starting to be effected without load, and means responsive to the motor speed for open-circuiting said starting winding and short-circuiting said magnet winding automatically when a predetermined speed is obtained.

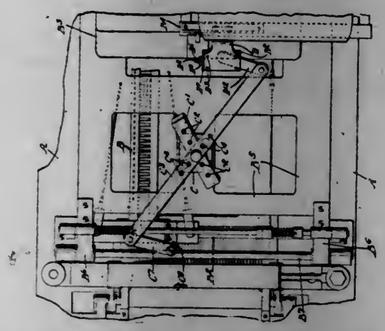
1,916,271. CHANGE DISPENSING MECHANISM. JAMES KISS, Bethlehem, Pa., assignor to Kwicway Money Changer Corporation, a Corporation of Delaware. Filed Jan. 14, 1932. Serial No. 586,537. 24 Claims. (Cl. 133—4.)

1. In a coin dispensing apparatus of the type comprising a coin stack receptacle, a bottom plate thereunder, a slideway defined above said plate and below said receptacle, and a coin tray movable in said slideway and accommodating the lowermost coin of the stack and extending rearward from the receptacle; the combination in which a strap



defined by a pair of slots longitudinally of said tray is encircled by a coil spring which reacts against the rear portion of said coin receptacle.

1,916,272. CARRIAGE DRIVE MECHANISM. CHESTER A MACOMIC, Chicago, Ill. Filed Dec. 15, 1928. Serial No. 326,180. 4 Claims. (Cl. 197—1.)



1. A driving member, a driven member, a lever interposed between them and pivoted at a point removed from them, links interposed between each member and the end of the lever adjacent thereto, means for adjusting the pivot point of the link on one of the members in one direction parallel with its line of movement, means for changing the relative lengths of the two arms of the lever and means for shifting the pivot point of the lever along a line inclined to the line of movement of the members.

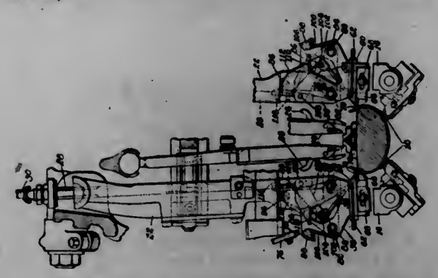
1,916,273. PROCESS OF MAKING ORGANIC ESTERS OF CELLULOSE. HERBERT E. MARTIN, JAMES W. ELDER, and LINWOOD N. ROGERS, Cumberland, Md., assignors to Celanese Corporation of America, a Corporation of Delaware. Filed Apr. 21, 1928. Serial No. 271,975. 9 Claims. (Cl. 260—101.)

1. In the method of making organic esters of cellulose, the steps of subjecting cellulose to pretreatment with a lower fatty acid and then to a pretreatment with an organic acid anhydride in the absence of sufficient catalyst to cause esterification of the cellulose.

1,916,274. PROCESS OF PREPARING ORGANIC ESTERS OF CELLULOSE. HERBERT E. MARTIN and JAMES W. ELDER, Cumberland, Md., assignors to Celanese Corporation of America, a Corporation of Delaware. Filed Dec. 8, 1928. Serial No. 324,799. 7 Claims. (Cl. 260—101.)

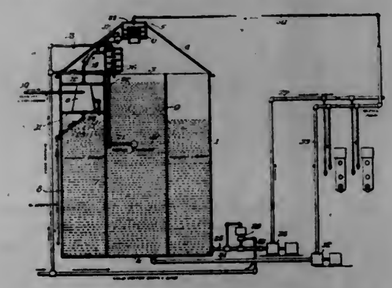
1. In the method of making organic esters of cellulose, the step of pretreating material consisting essentially of cellulose by adding thereto a reagent comprising the anhydride of a lower fatty acid as the sole active agent and containing substantially no esterifying catalyst prior to esterification, said anhydride being in the liquid state.

1,916,275. MACHINE FOR SHAPING UPPERS OVER LASTS. JAMES M. MATHEU, New York, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 4 1930, Serial No. 425,882. Renewed June 13, 1932. 35 Claims. (Cl. 12—4.)



1. In a machine for shaping over lasts the uppers of stitchdown shoes, the combination with means for shaping an upper over the forepart of a last, of means for driving upper-holding fastenings through the upper and into the last at the end of the toe and the opposite sides of the forepart in such relation to the bottom face of the last as to permit the margin of the upper to extend outwardly upon the projecting margin of a sole while the fastenings are in upper-holding positions.

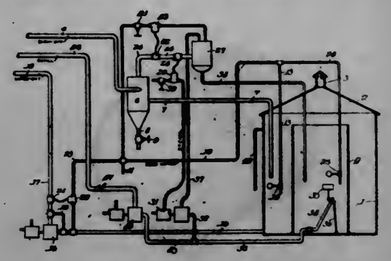
1,916,276. BOILER WASHING AND FILLING SYSTEM. FRANK W. MILLER, Chicago, Ill. Filed Nov. 15, 1928. Serial No. 319,698. 4 Claims. (Cl. 122—396.)



1. In a boiler washing and refilling system the combination of a washout tank, a refill tank disposed within the washout tank in position to be surrounded at its sides by the washout water, a cover for both of said tanks, a condenser carried by said cover for receiving the steam rising uncondensed above said tanks, a refill line connected to receive water from the refill tank, and a return circulating line for delivering water from the refill line to said condenser whereby said uncondensed steam is condensed and delivered to the refill tank, the sole vent to the atmosphere for the tank being provided in the top of said condenser, said vent being permanently opened to the atmosphere.

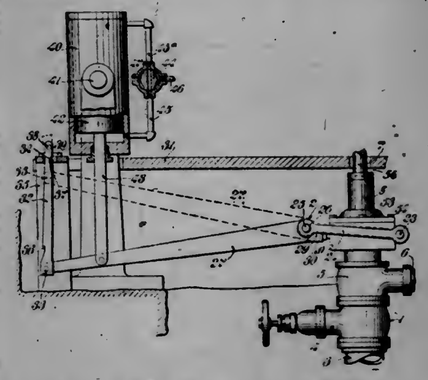
1,916,277. BOILER WASHING AND FILLING SYSTEM. FRANK W. MILLER, Chicago, Ill. Filed Aug. 4, 1930. Serial No. 473,085. 5 Claims. (Cl. 122—396.)

1. In combination, a wash-out tank and a refill tank entirely disposed therein, a condenser, a blow-off main and a separator connected therewith arranged for separating blow-off products and delivering the blow-off water into the wash-out tank and the separated steam into said condenser, a refill main, a refill pump connected with the refill tank and with said refill main, a condenser pump connected to said refill tank and to said condenser, a thermostat arranged to be operated by the delivery of steam to said condenser, and means operated by the expansion of the thermostat for starting the condenser pump said condenser being arranged and connected to mix the refill water from said condenser pump with said separated steam and to deliver them into said refill tank.



3. In a boiler washing and refilling system including a wash-out tank, a wash-out main, a wash-out pump connected with said main and said tank, means normally free from valves or the like connected with said wash-out main beyond said pump arranged for draining by gravity water from the wash-out main back to said tank whenever said pump is idle.

1,916,278. OIL AND GAS WELL DRILLING APPARATUS. JOSEPH S. MITCHELL, deceased, Chicago, Ill., by Edna K. Mitchell, executrix, Louisville, Ky., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Original application filed Feb. 2, 1922, Serial No. 533,603. Divided and this application filed Mar. 27, 1929. Serial No. 350,350. 35 Claims. (Cl. 24—248.)

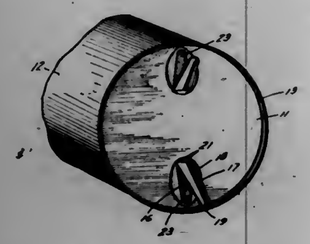


1. The combination with oil or gas well drilling mechanism including a drill rod, of clamping mechanism engageable with the rod including a casing, rod gripping members mounted in said casing and movable into engagement with the rod, cooperating gripping members mounted in said casing and movable by movement of said first mentioned members, and means mounted on said casing and operatively connected to said first mentioned gripping members for moving all of said gripping members into and out of rod gripping position.

1,916,279. CONTAINER. HENRY MILLER NICHOLLS, Chicago, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 10, 1929. Serial No. 384,818. 2 Claims. (Cl. 220—27.)

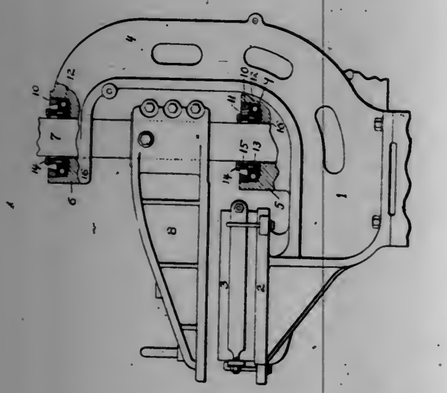
1. A container, provided with a top having two similar panels arranged in opposed relation and adapted to be

opened, having an outwardly projecting triangular area set off by score lines extending along two legs of the triangle the apex thereof pointing away from the center of the top, the base thereof being unscored and being bent outwardly along a hinge line upon breaking of the score lines and lifting of the area which action takes place in



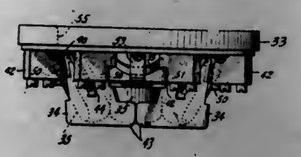
the opening of the container, reinforcing means for said triangular area for insuring easy bending thereof as a whole to discharge position, one of the openings formed by hinging of the scored area being then usable as a discharge, pouring opening for the contents of the container while the opposite opening acts as a vent in the discharging operation.

1,916,280. PRESS. JOHN ROGER OLIVER, Medfield, Mass., assignor to Reece Shoe Machinery Company, Boston, Mass., a Corporation of Maine. Filed Aug. 21, 1930. Serial No. 476,873. 7 Claims. (Cl. 308—227.)



1. In a press or analogous machine having a central or post member and a member surrounding it with small clearance, one of which members is subject to rotation relatively to the other, and one of which members is subject to repeated abnormally heavy tilting or lateral displacing stresses; the combination with said members of an antifriction bearing between them normally permitting free rotation, and a mechanical centering means normally holding said members and bearing in concentric relation, but having a resilient element or spring permitting relative tilting or lateral displacement to eccentric position under abnormal stresses, whereby the small clearance between post and surrounding member is taken up and the antifriction bearing thus relieved of such abnormal stresses.

1,916,281. MACHINE FOR ASSEMBLING CONTAINER PARTS. JOHN ERNEST PAGE, Sydney, New South Wales, Australia, assignor to The Guardian Trust Company, Cleveland, Ohio, a Corporation of Ohio, as trustee for The Gibson Patent Containers, Ltd., a Corporation of New South Wales, Australia. Filed Dec. 20, 1930. Serial No. 503,694. 10 Claims. (Cl. 93—36.)



1. A turning-in device comprising a supporting ring having a substantially straight sided opening, substantially straight turning-in members one for each side and pivoted between said corners, curved corner turning-in members within said straight turning-in members and located at the corners, and means independently urging each of said members inwardly.

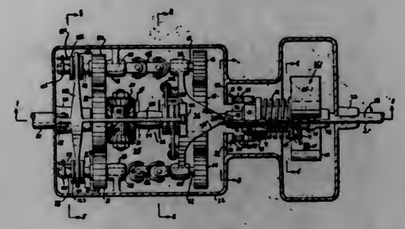
1,916,282. ART AND MEANS OF IDENTIFICATION. FRANK F. PEACOCK, Kansas City, Mo. Filed July 16, 1928. Serial No. 293,109. 12 Claims. (Cl. 95—1.1.)



1. A method of production of means of identification comprising providing on one transparent sheet individually applied characteristic opaque indicia and providing on another transparent sheet photographic indicia located on the second sheet with due regard to the location of the indicia on the first sheet for providing interlocking therewith when the first sheet is superimposed on the second sheet and providing on each of said sheets further opaque identifying indicia, the said sheets being adapted to be superimposed with respect to each other for printing the indicia thereof as a unit, and the indicia on each being so located with respect to the location of the indicia on the other than when thus superimposed for printing the light restrictions of the combined indicia will effectively interlock to produce a unitary print, and photographically printing the indicia of said sheets as a unit.

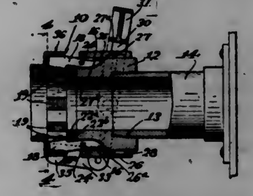
1,916,283. SPEED CHANGE TRANSMISSION. MARCEL PRESSLER, New York, N. Y. Filed Nov. 30, 1931. Serial No. 578,065. 5 Claims. (Cl. 74—92.)

1. In a device for transmitting rotary motion; two universal joint units connected in series with one another, each having a pair of axes for rocking motions thereabout, the two axes in a pair being perpendicular to one another, and a member in each unit to rock around each axis, the two adjacent members of the two units being permanently secured to one another, and the rocking axes of said two adjacent members being perpendicular to one another, the first outermost member on the one side of the universal joints to receive the driving motion and a second outermost member on the other side thereof to transmit a rotary motion; a first intermediate driving shaft secured to said first outermost member; a second intermediate shaft driven by said second outermost member, said shafts normally being in axial alignment, means to move said shafts out of alignment; a primary driving shaft; a gearing between said primary driving shaft and



said first intermediate shaft; an ultimate shaft to be driven through the device; a first intermediate member rotated directly by said primary driving shaft; a second intermediate member rotated by said second intermediate shaft driven by said universal joint units, and means to transmit the difference in rotating speeds of said first and second intermediate members to said ultimate shaft.

1,916,284. COUPLING. THOMAS M. RAGAN, Los Angeles, Calif., assignor to Earl B. Wiggins, Los Angeles, Calif. Filed Mar. 7, 1931. Serial No. 520,879. 8 Claims. (Cl. 285—150.)



1. A coupling comprising a cylindrical body member having a plurality of openings extending inwardly from its front face and communicating with elongated recesses formed in the external face of the side wall thereof, a pivoted jaw mounted in the recess formed in said body member, each jaw having teeth formed on its inner face adjacent one end and cam portions on the opposite end thereof, a sleeve having an internal recess formed therein slidably mounted on said body member, and means for actuating said sleeve, said jaws being held in closed position by engagement of the internal face of said sleeve with the outer faces of the jaws in open position by engagement with the cams.

1,916,285. RUBBER COMPOSITION AND METHOD OF PRESERVING RUBBER. MARION C. REED, Charleston, W. Va., assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Nov. 4, 1929, Serial No. 404,868. Renewed Apr. 18, 1932. 45 Claims. (Cl. 18—50.)

1. The method of preserving rubber which comprises treating rubber with a substance of the general formula

$$R_1-\overset{H}{\underset{|}{N}}-R_2$$

where R_1 is a monovalent aliphatic hydrocarbon group and R_2 an aryl hydrocarbon group containing at least 2 aromatic rings.

1,916,286. RUBBER COMPOSITION AND METHOD OF PRESERVING RUBBER. MARION C. REED, South Charleston, W. Va., assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Original application filed Nov. 4, 1929, Serial No. 404,868. Divided and this application filed Apr. 27, 1932. Serial No. 607,888. 35 Claims. (Cl. 18—50.)

1. The method of preserving rubber which comprises treating rubber with a substance of the general formula

$$R_1-\overset{H}{\underset{|}{N}}-R_2$$

where R_1 is a monovalent aliphatic hydrocarbon group and R_2 is an aromatic group containing at least two distinct aromatic rings.

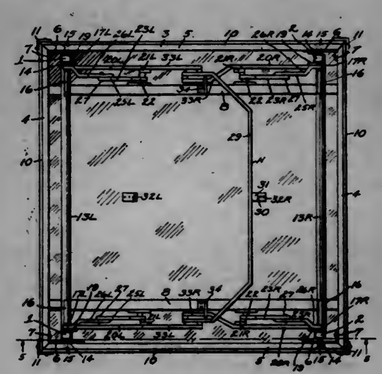
1,916,287. RUBBER COMPOSITION AND METHOD OF PRESERVING RUBBER. MARION C. REED, South Charleston, W. Va., assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Original application filed Nov. 4, 1929, Serial No. 404,868. Divided and this application filed Apr. 27, 1932. Serial No. 607,889. 30 Claims. (Cl. 18—50.)

1. The method of preserving rubber which comprises treating rubber with a substance of the general formula

$$R_1-\overset{H}{\underset{|}{N}}-R_2$$

where R_1 is a cyclic aliphatic hydrocarbon group and R_2 is an aromatic group containing at least two aromatic rings.

1,916,288. ARTICLE OF FURNITURE OF THE FOLDING TYPE. CHARLES J. SYMMONDS, Chevy Chase, Md. Filed Sept. 27, 1932. Serial No. 635,041. 14 Claims. (Cl. 45—11.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

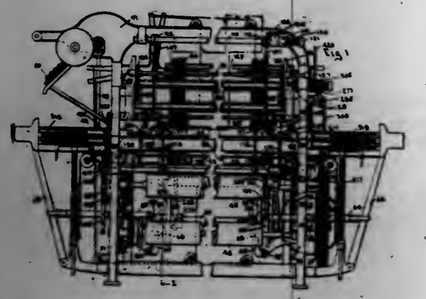


1. An article of furniture comprising a frame having ends, a unitary leg member pivoted thereto at each end, common control means, leg moving means connected to said unitary leg members and said common control means, said common control means acting upon said leg moving means to first move one of said unitary leg members and then the other of said unitary leg members into folded or unfolded position.

1,916,289. COMPOUND. WALTER R. THURSTON, Los Angeles, Calif. Filed Feb. 21, 1928. Serial No. 256,063. 2 Claims. (Cl. 106—8.)

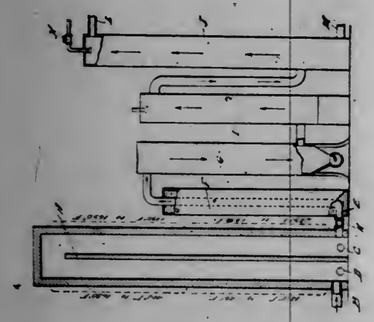
1. A composition composed of molasses with a saturated solution of manganese resinate and nitrobenzol.

1,916,290. LOOM FOR WEAVING ORIENTAL KNOTTED FABRICS. THOMAS P. WALSH, Boston, Mass., assignor to The B. H. R. W. Development Company, New York, N. Y., a Corporation of New York. Filed May 18, 1931. Serial No. 538,166. 83 Claims. (Cl. 139—4.)



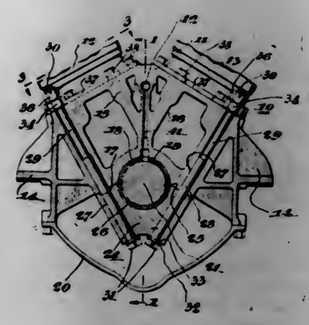
1. In a loom, means for holding the warp threads; a plurality of yarn supporting fingers arranged in a plurality of groups spaced at intervals transversely across the loom, each finger being formed to guide a plurality of yarn strands; means for operating the fingers of the different groups in different orders; weaving mechanism including a plurality of weaving blocks, equal in number and in operative relation to the finger groups; means for engaging a yarn strand from each group of fingers with its respective weaving block; means for moving the weaving blocks to weave transversely of said warp threads; and means for completing the transverse weaving intermittently progressive.

1,916,291. PROCESS OF OBTAINING CARBON BLACK AND HYDROCARBONS OF MORE COMPLEX MOLECULAR STRUCTURE BY THE PYROLYTIC DISSOCIATION OF HYDROCARBON GASES AND VAPORS. WILLIAM D. WILCOX, Kansas City, Mo. Filed Dec. 6, 1930. Serial No. 500,582. 12 Claims. (Cl. 134—60.)
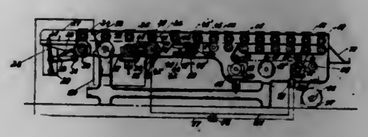


1. The process of obtaining carbon black and hydrocarbons of more complex molecular structure by the pyrolytic dissociation of hydrocarbon gases and vapors which comprises passing the hydrocarbon gases in contact with the refractory interior surfaces of a conduit which are heated within a maximum range of 1800° to 2200° F., with a time of contact with the surfaces so heated within the range of one to three seconds, cooling the issuing gas to a temperature at which the condensible hydrocarbons remain vaporous, recovering the carbon from the gas, further cooling it and extracting the condensible hydrocarbons therefrom.

1,916,292. INTERNAL COMBUSTION ENGINE. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 11, 1925. Serial No. 74,722. 2 Claims. (Cl. 121—194.)



1. The combination in an internal combustion engine having a crankcase and banks of cylinders thereon of webs arranged transversely of the crankcase, a cap member in the vertical plane of each web, a bearing supported between each web and its cap member and oppositely inclined bolts passing through each cap member and web parallel to the respective cylinder banks, said bolts having nuts outside the crankcase adjacent the cylinders.

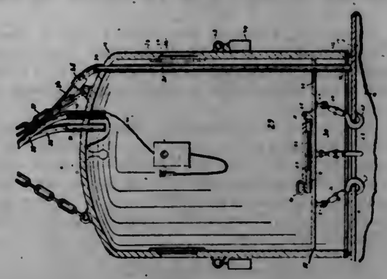
1,916,293. METHOD AND APPARATUS FOR MANUFACTURING VALVE BAGS. ARNO ANDREAS, Munster, Germany. Filed Aug. 14, 1930, Serial No. 475,299, and in Germany Aug. 12, 1929. 20 Claims. (Cl. 93—27.)



1. Apparatus for producing bags with crossed ends from a tube having end sections spread from a traverse, comprising means for moving the tube in a path, means in the path for making sharp indented fold creases in the end sections parallel to the traverse so as to produce end flaps thereby, a forming table in the path and means cooperating therewith for folding the flaps flat from the creases upon the end sections and across the traverse, and means for applying a gummed strip to said flaps.

1,916,294. RESCUE TOWER. ANTON BACINICH, Brooklyn, N. Y. Filed Feb. 2, 1929. Serial No. 337,042. 11 Claims. (Cl. 61—69.)

1. In a submersible rescue tower for submarines, the combination of a hermetically closeable chamber filled with air under substantially atmospheric pressure, a compartment adjoining said chamber, connected therewith and having its outer end open, resilient cushioning means around the bottom peripheral edge of the bottom open end of said compartment, a door between said chamber and said compartment, and mechanical means in said compartment adapted to be manipulated from within said chamber and said compartment, adapted to mechanically,

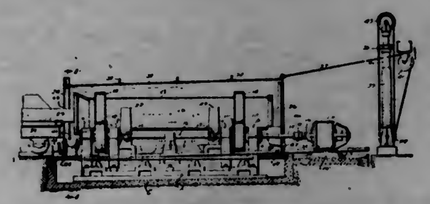


releasably attach said open end of said compartment to said submarine, and retain said rescue tower in rescue operating relation to said submarine.

1,916,295. ARTIFICIAL RESINOUS SUBSTANCE. WILLIAM BAIRD, Manchester, England, assignor to Imperial Chemical Industries Limited, a Corporation of Great Britain. Filed Oct. 5, 1931, Serial No. 567,125, and in Great Britain Oct. 21, 1930. 6 Claims. (Cl. 260—8.)

1. A process for incorporating non-hydroxylated fatty oils into polyhydric alcohol-polybasic acid resins which comprises heating a polyhydric alcohol, an organic polybasic acid and a non-hydroxylated fatty oil in a closed vessel and then heating the reaction mixture in an open vessel until resinification takes place.

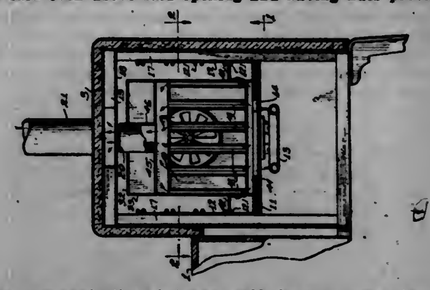
1,916,296. CENTRIFUGAL CASTING MACHINE. CLARENCE DALE BARR and STEPHEN DEWEY MOXLEY, Birmingham, Ala., assignors to Sand Spun Patents Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 23, 1931. Serial No. 564,691. 9 Claims. (Cl. 22—65.)



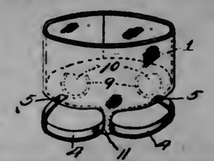
8. A centrifugal casting machine comprising a heavy base casting provided with an integral supporting structure including a pair of spaced transversely arranged vertical walls located at each end of the base and upwardly and inwardly inclined walls rising from opposite sides of the base and extending longitudinally between the vertical walls and formed integral therewith, each vertical wall provided at its upper end with a pair of integral bearing pedestals, a shaft journaled in each pair of pedestals, and a flask-supporting and driving roller carried by each shaft for rotation between each pair of pedestals.

1,916,297. HEATER. JESSE L. BRIGHT, Cicero, Ill., assignor to Crown Stove Works, Cicero, Ill., a Corporation of Illinois. Filed June 23, 1932. Serial No. 618,888. 6 Claims. (Cl. 126—4.)

1. A stove comprising an oven having a bottom plate provided with an opening, a burner compartment below said oven, a burner in said compartment below said opening, a flue above said oven, a removable radiator located in said oven above said opening and having flues providing communication between said burner compartment and said first mentioned flue, and a fan for causing a flow of air through said radiator.

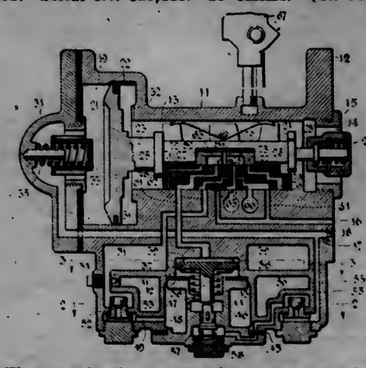


1,916,298. ABDOMINAL SUPPORTING BELT. JOHANNAH BROHMAN, Los Angeles, Calif. Filed June 9, 1931. Serial No. 543,181. 1 Claim. (Cl. 128—96.)



In combination an abdominal support, said support comprising a body member adapted to encircle the body, said body member being formed from a single piece of stretchable and contractible material stretchable and contractible in all directions, pad receiving pockets carried by said body member, said pad receiving pockets being formed from a single piece of stretchable and contractible material stretchable and contractible in all directions, the marginal edges of said pockets being secured to the body member with the exception of one side thereof whereby access to the pockets may be had, said piece of material forming the pockets being of substantially the same material as the body member whereby a pad in the pockets will bulge the pockets on both sides whereby an inward pressure may be applied to the body of the wearer.

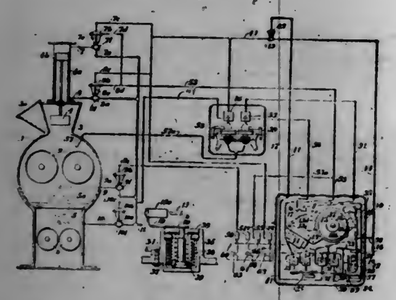
1,916,299. AIR BRAKE. CHARLES A. CAMPBELL, Watertown, N. Y., assignor to The New York Air Brake Company, a Corporation of New Jersey. Filed July 19, 1932. Serial No. 623,443. 19 Claims. (Cl. 303—39.)



1. The combination of a triple valve provided with brake pipe and brake cylinder connections, said triple

valve having service, lap and release positions; a pair of quick service chambers; means rendered effective by motion of the triple valve to service position for connecting both said chambers with the brake pipe connection; means effective in lap position of the triple valve to connect one of said chambers with the brake cylinder connection; and means effective in release position of the triple valve for venting both said chambers.

1,916,300. CONTROLLING MECHANISM. ROBERT D. CLEVELAND, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Dec. 26, 1930. Serial No. 504,983. 12 Claims. (Cl. 18—2.)



1. In apparatus of the character described, including a roller mill, means for driving the same and a gate controlling the outlet, the combination of means for controlling the operation of the mill to carry out a predetermined cycle, including means sensitive to temperature conditions within the mill for closing the gate when the temperature within the mill drops below a predetermined lower limit, and means sensitive to temperature conditions within the mill for opening the gate when the temperature in the mill exceeds a predetermined upper limit.

1,916,301. OIL WELL RECORDING INCLINOMETER. CAWTHERN CHESTER COLE, Whittier, Calif. Filed July 12, 1929. Serial No. 377,740. 14 Claims. (Cl. 234—5.3.)



6. In a recording inclinometer, an elongated sheet adapted to be moved lengthwise past a fixed point, two fixed points in spaced relation along said sheet, a movable point operable between said fixed points, and means whereby electric sparks are passed from said points to mark said sheet.

1,916,302. PROCESS FOR THE RECOVERY OF LEAD DIRECTLY FROM LEAD ORE IN THE FORM OF AN ACETATE OF LEAD. LEO P. CURTIN, Cranbury, N. J. Filed Oct. 23, 1931. Serial No. 570,773. 7 Claims. (Cl. 260—11.)

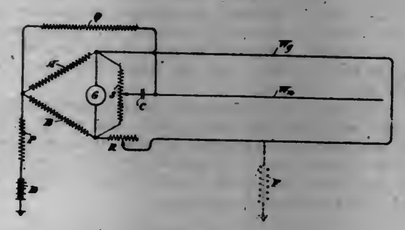
1. Process for the recovery of lead in combined form from lead ores which comprises subjecting the roasted ore to the solvent action of lead acetate and calcium acetate in aqueous solution.

1,916,303. METHOD OF CONVERTING ROASTED LEAD ORES AND BAG-HOUSE DUST DIRECTLY INTO LEAD SALTS. LEO P. CURTIN, Cranbury, N. J. Filed May 3, 1932. Serial No. 609,044. 10 Claims. (Cl. 23—71.)

1. Method of recovering the lead content of material containing lead sulfate which comprises subjecting the material to the solvent action of a solution of ammonium acetate in the presence of a soluble alkaline earth metal compound.

10. Method of recovering lead from lead fume which comprises extracting the fume with a solution of ammonium acetate and calcium acetate, separating the resulting solution, adding calcium hydroxid to the solution, treating the solution with carbon dioxid to precipitate its lead content, and using the resulting solution for extracting more lead fume.

1,916,304. TESTING SYSTEM. PAUL G. EDWARDS, Bloomfield, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 21, 1930. Serial No. 430,358. 21 Claims. (Cl. 175—183.)



1. The combination of apparatus including a galvanometer for making Varley loop measurements, and means capacitatively coupled to the galvanometer supplying currents for neutralising the effects of extraneous potentials which fluctuate the pointer of the galvanometer.

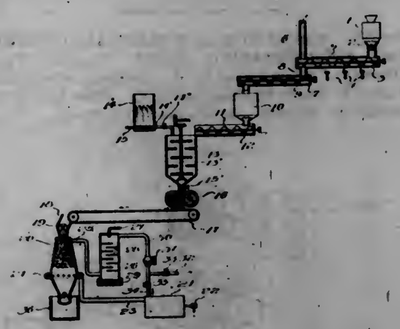
1,916,305. PLANT STAKE. WILLIAM BRIGHAM ESSELEN, Millis, Mass. Filed Sept. 7, 1929. Serial No. 390,937. 2 Claims. (Cl. 47—47.)



1. A one piece plant support consisting of a metal rod, the lower portion of which is straight and free from protuberances whereby it may be rotated freely about its axis when inserted into the ground, the upper portion of said support being formed into a single greatly elongated helical loop at one side of the lower straight portion terminating in an extension adapted to be moved around the plant stalk without injury thereto.

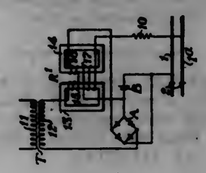
1,916,306. CARBONACEOUS FUEL AND METHOD OF PRODUCING SAME. ALFRED FISHER, Elizabeth, N. J., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed June 24, 1929. Serial No. 373,103. 2 Claims. (Cl. 44—10.)

1. A method for treating petroleum coke to produce a carbonaceous fuel which is substantially smokeless and which burns without substantial disintegration, said method comprising heating the petroleum coke sufficiently to reduce its content of volatile matter below 5% but above



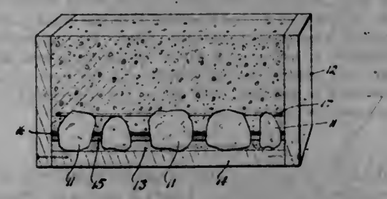
1%, thereafter mixing the treated coke with a binder, and compressing the mixture into a form suitable for handling and use.

1,916,307. BATTERY CHARGING REGULATION. ROBERT M. GILSON, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 30, 1930. Serial No. 492,241. 4 Claims. (Cl. 171—314.)



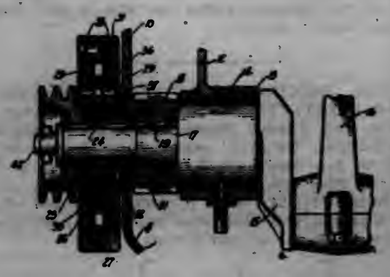
2. In combination, a direct current load characterized by wide variations in resistance, a reactor having a primary and a secondary coil, a storage battery connected with said load through said secondary coil, a constant potential transformer, and a rectifier having its input terminals connected with the secondary of said transformer through the primary coil of said reactor and its output terminals connected with said battery, whereby the amount of charging current delivered to the battery varies in proportion to the amount of current drawn from the battery by the load.

1,916,308. BUILDING BLOCK. MICHAEL A. GRIECO, Chicago, Ill., assignor of forty per cent to Raymond L. Johnson, Chicago, Ill. Filed Nov. 16, 1929. Serial No. 407,585. 1 Claim. (Cl. 72—36.)



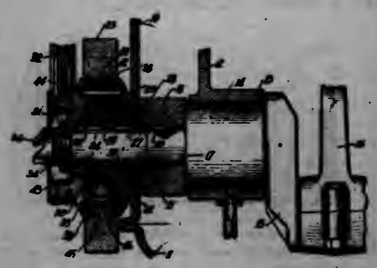
A building block, comprising a relatively thick body portion having a plurality of small natural stones partly embedded in spaced relation in said body portion and protruding therefrom a substantial distance, a light coat of weather proofing material upon said body portion between the protruding portions of said stone, a layer of colored water proofing composition superposed upon said weatherproofing material, and a reinforcing frame within said body portion at substantially the plane defined by the inner ends of said natural stone.

1,916,309. INTERNAL COMBUSTION ENGINE. WALTER R. GRISWOLD, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed July 8, 1930. Serial No. 466,459. 10 Claims. (Cl. 74—6.)



1. A vibration damper for shafts having a hub member secured thereon, an inertia member movable relatively to said hub member in response to shaft vibration, a friction plate secured to said inertia member, a friction device associated with said plate and said hub member and acting between the latter to develop friction in response to relative movement thereof, and elastically deformable means forming a covering for said friction device and disposed between the inertia member and the hub.

1,916,310. INTERNAL COMBUSTION ENGINE. WALTER R. GRISWOLD, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 21, 1930. Serial No. 430,209. 24 Claims. (Cl. 74—6.)

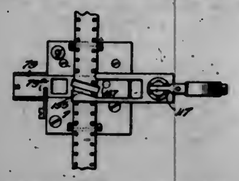


1. A vibration damper for shafts comprising an inertia member movable relative to said shaft, a deformable member associated with the shaft and with the inertia member, and relatively movable friction devices within said deformable member connected with the inertia member and the shaft and cooperable upon relative movement of the latter to absorb energy resulting from shaft vibration.

1,916,311. MACHINE FOR INSPECTING, SPLICING, AND REWINDING MOTION PICTURE FILMS. ARTHUR C. HAYDEN, Brockton, Mass. Filed Oct. 19, 1927. Serial No. 227,074. 11 Claims. (Cl. 154—42.)

1. A machine of the character described comprising, in combination, a support, a table on the support having

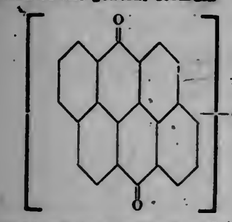
an aperture therein and over which film may be fed, means adapted to support an electric lamp beneath the aperture, and a slide having a slot therein adapted to cooperate



with a tool for severing the film, said slide being movable on the table to adjust the slot to and from a position beneath the film.

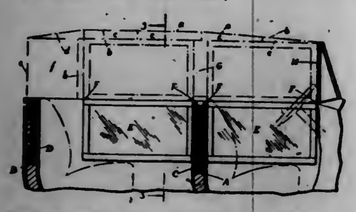
1,916,312. PROCESS FOR MANUFACTURING ORANGE VAT DYESTUFFS. RICHARD HERZ, Frankfort-on-the-Main, and WERNER ZERWECK, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 9, 1929, Serial No. 331,391, and in Germany Jan. 21, 1928. 5 Claims. (Cl. 260—61.)

1. A process which comprises treating an anthanthrone sulfonic acid of the general formula



wherein n means the number 1 or 2, with a halogenating agent in an aqueous medium.

1,916,313. FOLDING HOOD FOR VEHICLES. CHARLES GAUNTLETT HIGGINS, London, England. Filed Feb. 7, 1930, Serial No. 426,691, and in Great Britain Feb. 25, 1929. 5 Claims. (Cl. 296—108.)



1. A folding cover for a vehicle comprising side window frames carried by said vehicle, rigid roof panels carried by said vehicle and hingedly connected together on lines transversely of the vehicle, and side flaps hinged to each of said panels on lines longitudinally of the vehicle, said side flaps being adapted to connect said panels and said side window frames.

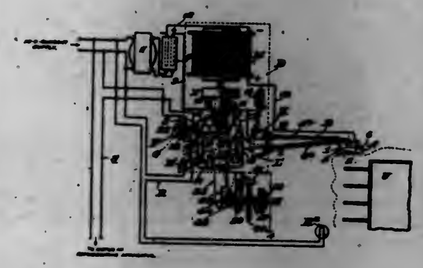
1,916,314. ISOCYANATES. JOSEF HILGER, Cologne-Mulheim, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 2, 1932, Serial No. 584,577, and in Germany Jan. 9, 1931. 3 Claims. (Cl. 260—97.)

1. The compounds of the probable general formula:

R—N=C=O

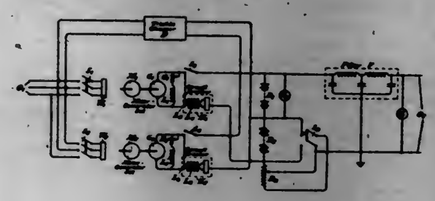
wherein the group R—N= stands for the radical of an aromatic aminoazo compound free from a free sulfonic or carboxylic acid group, being generally yellow to reddish substances and being valuable intermediate products in the manufacture of dyestuffs.

1,916,315. MEANS FOR AUTOMATICALLY DEFROSTING REFRIGERATING UNITS. CHARLES THOMAS HOFFMAN, Washington, D. C., assignor of one-half to Emory L. Groff, Washington, D. C. Filed July 3, 1929. Serial No. 375,647. 56 Claims. (Cl. 62—4.)



1. In a refrigerator, the combination with the cooling unit and means for interrupting and restoring the refrigerating cycle thereto, of means adapted to contact with and allow the ice formation on the surface of the cooling unit to automatically control said means for interrupting and restoring the refrigerating cycle.

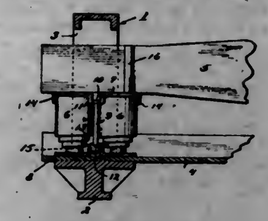
1,916,316. BATTERY CONTROL CIRCUIT. WILLIAM H. T. HOLDEN, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 17, 1930. Serial No. 436,545. 11 Claims. (Cl. 171—314.)



1. In a system transmitting current from an input circuit to an output circuit, the combination of a plurality of secondary sources of electromotive force connected in series with each other, a plurality of sources of counter-electromotive force connected in series with each other and with said secondary sources, the series circuit of said sources being connected in shunt with the input and output circuits, a variable resistance, means for connecting said resistance in series with all of said sources and in series with said output circuit, and means for connecting said resistance in parallel with all of the sources of counter-electromotive force.

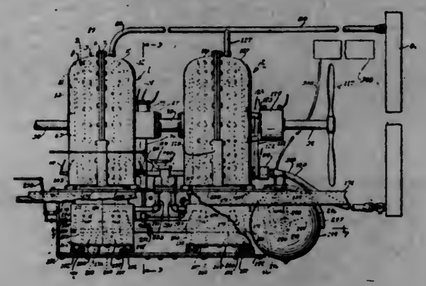
1,916,317. VOLUTE SPRING STRUCTURE FOR LATERAL MOTION TRUCKS. CYRUS J. HOLLAND, Chicago, Ill. Original application filed July 25, 1927, Serial No. 208,349. Divided and this application filed Oct. 29, 1930. Serial No. 492,046. 8 Claims. (Cl. 267—4.)

1. In a railway car truck including side frames having window openings therein, and a bolster having its ends movable vertically and laterally within and with respect to said openings, the combinations of volute spring



means located within the window openings for supporting the bolster ends, said spring means serving as rockers to permit lateral motion of the bolster.

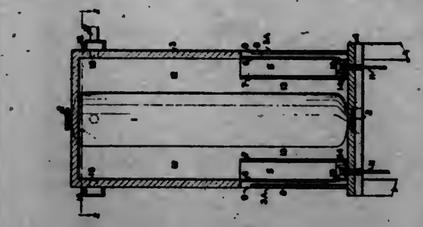
1,916,318. INTERNAL COMBUSTION ENGINE. FRANK X. HUBER, Glidden, Wis., assignor of one-eighth to Otto H. Zielke and one-eighth to Edward F. Zielke, Glidden, Wis. Filed Aug. 23, 1930. Serial No. 477,400. 12 Claims. (Cl. 123—14.)



1. A device of the type described comprising a fuel compressing unit and a fuel combustion unit, said units comprising housings having circular cylinder chambers provided with inlet and outlet openings, partitioning means disposed within the housings between the inlet and outlet openings, said partitioning means being insertable in and retractable from the cylinder chambers, a shaft mounted in said housings, pistons connected with the shaft and movable within the cylinder chambers, said compressing unit being in communication with a source of fuel and the combustion unit whereby fuel may be forced under pressure into said combustion unit, said combustion unit being adapted for energising the fuel whereby the combustion unit pistons and the compressing unit pistons may be rotated, means in communication with the compressed fuel and actuated thereby for moving the partitioning means into and out of the cylinder chambers, means connected with the shaft for timing the movement of the partitioning means, means connected with the timing mechanism whereby the partitioning means of the compressing unit may be held in their retracted positions for preventing further compression of the fuel, and means in communication with the fuel supply whereby the fuel may be directed to any one of the combustion unit cylinder chambers when the starter means is actuated.

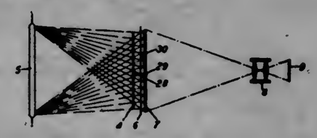
1,916,319. APPARATUS FOR HIGH TEMPERATURE DISTILLATION. LYMAN C. HUFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Aug. 11, 1930. Serial No. 474,478. 6 Claims. (Cl. 122—234.)

5. Distillation apparatus comprising a shell still vertically disposed within a furnace setting, a vertical heat-radiating wall in the furnace setting opposite the lower portion of the still and spaced from the latter, means for generating combustion gases between said wall and the furnace setting to thereby heat the lower portion of the still by radiation, means for passing the combustion gases



around the upper portion of the still to heat the same by convection, and means for passing combustion gases from around the upper portion of the still through the space between said wall and the lower portion of the still.

1,916,320. STEREOSCOPIC PICTURE WITH EXAGGERATED OR DIMINISHED RELIEF. HERBERT E. IVES, Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 12, 1931. Serial No. 556,492. 26 Claims. (Cl. 88—16.6.)



2. In a system for producing pictures in stereoscopic relief, means for producing a parallax panoramagram picture of an object, means for shadow printing said parallax panoramagram picture to produce another parallax panoramagram picture in exaggerated relief, and means for projecting said last mentioned parallax panoramagram picture for viewing in exaggerated stereoscopic relief.

1,916,321. TOOTH CROWN AND METHOD OF MAKING THE SAME. FERNANDO O. JAQUES, Providence, R. I. Filed June 2, 1932. Serial No. 614,962. 8 Claims. (Cl. 32—29.)

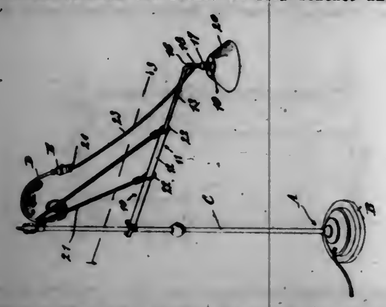


1. A formed tooth crown having an external configuration corresponding substantially with that of a natural tooth and having a substantially continuous rib pressed out of the normal surface of the crown upon one side thereof to circumscribe and define a portion of the crown from which the metal of the crown is to be removed in forming a tooth exposing opening.

1,916,322. ELECTRIC LAMP ATTACHMENT. LOUIS A. LINDEY, Brooklyn, N. Y. Filed June 8, 1932. Serial No. 616,018. 4 Claims. (Cl. 240—81.)

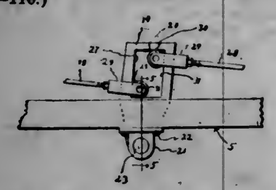
1. In combination with a floor lamp having an upstanding standard, and a bracket extending therefrom on which an electric lamp socket is mounted, an extension device comprising an arm, means carried by one end of said

arm for detachably engaging said standard, an electric lamp socket on the other end of said arm, an electrical connection between the socket on said bracket and the



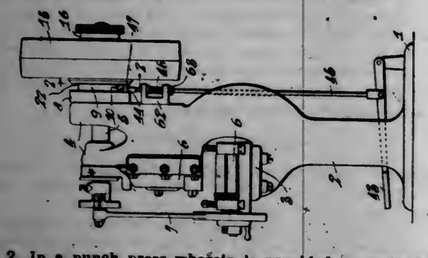
socket on said arm, and brace means supporting said arm in a substantially horizontal outstanding position from said standard.

1,916,323. BOOSTER. JOHN E. LUDWIG, Miami, Fla. Filed Nov. 21, 1930. Serial No. 497,324. 5 Claims. (Cl. 74—110.)



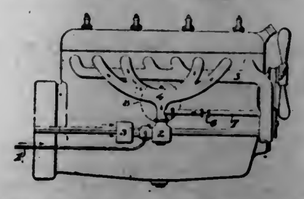
1. A booster device adapted for incorporation in the brake systems of automobiles, comprising a pivotally mounted block, a front brake rod and a rear brake rod, the front brake rod having a pivotal connection at one end with the brake operating lever and a roller connection at its other end with the block, and the rear brake rod having a pivotal connection at one end to the brake and a roller connection at its other end with the block, said block comprising a generally rectangular body having a trapezuimal opening whereby substantially parallel vertical roller surfaces and upper and lower nonhorizontal roller stop surfaces are provided, the roller of each brake rod being adapted to move within said opening and ride upon one of said roller surfaces and to be limited in its upward and downward movements by said stop surfaces when the brake operating lever is actuated and then released, said front and rear brake rod roller connections, and the pivot being the sole means for effecting and controlling the pivotal movement of the block.

1,916,324. CLUTCH MECHANISM FOR PUNCH PRESSES. JOSEPH W. MATHEY, Struthers, Ohio. Filed June 29, 1932. Serial No. 619,991. 20 Claims. (Cl. 192—22.)



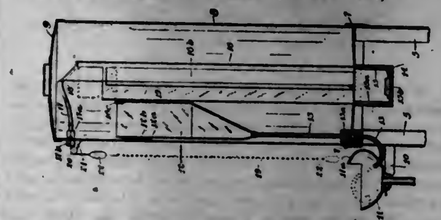
2. In a punch press wherein is provided a crank shaft and a fly wheel loose thereon; a clutch mechanism comprising a hub member carried by the fly wheel, an abutment pin carried by the crank shaft, a dog hingedly mounted in a recess in the hub member, a dog projecting spring, a dog hold-back latch, means to release the latch from the dog, and means to effect a re-latching of the dog.

1,916,325. METHOD OF CONTROLLING RECYCLING OF EXHAUST GAS IN INTERNAL COMBUSTION ENGINES. WILLIAM H. MCADAMS, Brookline, Mass., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed June 23, 1930. Serial No. 462,997. 2 Claims. (Cl. 123—119.)



1. A method for improving the efficiency of internal combustion engines comprising recycling predetermined portions of the exhaust gases from the exhaust manifold of the engine to the intake manifold, physically commingling the recycled portions of the exhaust gases with the fuel mixture being admitted to the internal combustion engine, and controlling the quantity of exhaust gases commingled in response to the thermal condition of the resultant mixture.

1,916,326. DRINKING FOUNTAIN. HENRY T. MCANULTY, Red Lake Falls, Minn. Filed May 29, 1931. Serial No. 540,904. 1 Claim. (Cl. 221—97.)

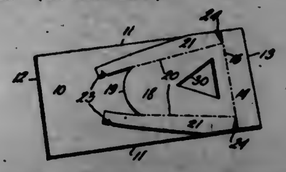


In a liquid dispenser, the combination with a storage tank and an outside discharge means, of a hopper, the outlet of said hopper being connected to said outside discharge means, a non-tilting elevating bucket having a free opening in one side thereof, a vertically disposed caging guide for said bucket located within said tank adjacent to said hopper, one side of said caging guide being imperforate and extending to the upper edge of said hopper, the remaining three sides of said caging guide extending above the upper edge of said hopper, the open side of said bucket facing the imperforate side of said caging guide and disposed in such proximity to said imperforate side that the imperforate side of said caging guide forms a closure for the open side of said bucket at all times except when said bucket is raised to its extreme uppermost position above said imperforate side, and band operating means for elevating said bucket.

1,916,327. PROCESS FOR PREPARING ORGANIC FLUORINE COMPOUNDS. FREDERICK MADISON MEIGS, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed June 15, 1931. Serial No. 544,712. 12 Claims. (Cl. 260—161.)

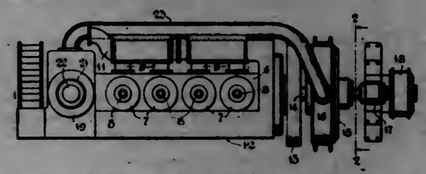
1. A process of making organic fluorine compounds which comprises precipitating an organic diazonium borofluoride from solutions having a hydrogen-ion concentration not greater than one mole per liter, and converting the organic diazonium borofluoride into organic fluoride.

1,916,328. SHIRT PROTECTOR. NORMAN E. MOORE, Batavia, N. Y. Filed Dec. 12, 1931. Serial No. 580,682. 10 Claims. (Cl. 223—18.6.)



1. A protector for laundered shirts comprising a form against a face of which the folded shirt abuts with the collar or neck band uppermost, and an inverted box-like guard having a top wall which extends over the collar or neck band in spaced relation to said form, and a relatively rigid marginal rim which depends therefrom to and upon the front of the shirt and straddles said collar or neck band and supports said top wall out of contact with said collar or neck band.

1,916,329. POWER PLANT. BRUNO V. E. NORDBERG, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 20, 1931. Serial No. 545,812. 3 Claims. (Cl. 290—1.)



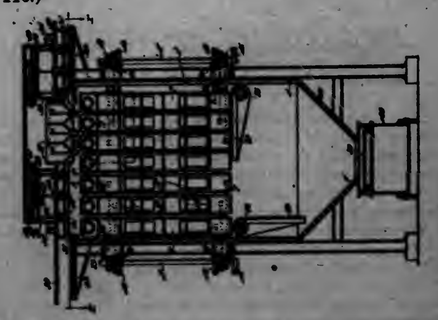
1. The combination of a generator having ventilating passages; a Diesel engine for driving the generator; a pump for furnishing scavenging air to said engine; and suction connections for passing said scavenging air through the ventilating passages of said generator and then to said pump.

1,916,330. ROLLER FOR CRUSHING CLODS. ABEL NORDSTRÖM, Buenos Aires, Argentina. Filed Aug. 5, 1932, Serial No. 627,657, and in Argentina May 19, 1932. 5 Claims. (Cl. 97—222.)



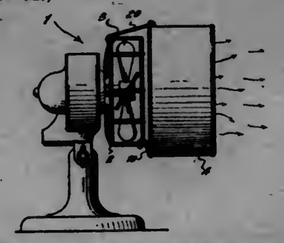
1. Improvements in rollers for crushing clods, comprising a roller, a system of scrappers placed close thereto, a plurality of pivoted arms, each slightly oscillatable through a vertical angle, a transverse member with which each arm is adapted to contact, said member, under the action of said arms, contacting with the adjacent ends of said scrapers, said scrapers being adapted to be forced outwardly by the earth adhering to the roller and to be returned to the normal position when said arms strike said member.

1,916,331. COKING APPARATUS. FRANZ PUENING, O'Hara Township, Allegheny County, Pa. Filed Oct. 1, 1929. Serial No. 396,468. 15 Claims. (Cl. 202—116.)



1. In carbonizing apparatus, a housing for confining distillate, relatively movable hollow walls having vertical pivotal supports within the housing and having carbonizing spaces therebetween, means for separating said walls for the removal of carbonized material from said spaces, said walls serving as conduits for heating fluid, a combustion chamber located outside of the housing for heating fluid for circulation through said conduits, flexibly connected conduits for conducting the heating fluid from the combustion chamber to the relatively movable walls respectively, and means for reversing the direction of the flow of heating fluid.

1,916,332. AIR COOLING ATTACHMENT FOR ELECTRIC FANS. WILLIAM G. ROOMS, Waxahachie, Tex. Filed Aug. 24, 1931. Serial No. 558,911. 2 Claims. (Cl. 261—92.)



1. In combination with a cooling fan having a guard mounted over the fan blades, a humidifier comprising a stationary drum having both ends open to permit the passage of air therethrough, a flange extending a limited distance into the open ends, hooks carried by said drum for removably securing the drum to said fan guard, a shaft revolvably mounted within said drum, a second open ended drum mounted upon said shaft and adapted to revolve with said shaft, a series of loops mounted upon the inner surface of said second drum and upon the shaft, a strip of absorbent material secured to said loops, and at least two adjustable blades secured to said second drum in such a manner that air from the fan will rotate the shaft and the second drum.

1,916,333. IMPREGNATED PRODUCT AND PROCESS OF MANUFACTURE. HAROLD J. ROSE, Penn Township, Allegheny County, Pa., and WILLIAM H. HILL, New York, N. Y., assignors to The Koppers Company of Delaware, a Corporation of Delaware. Filed May 13, 1929. Serial No. 362,880. 2 Claims. (Cl. 91—70.)

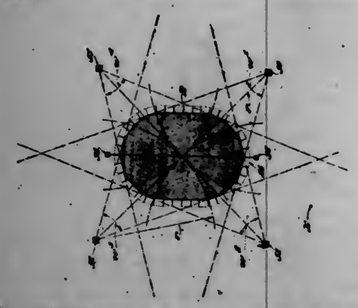
2. A process of preparing an impregnated porous material, which comprises impregnating the porous material with a coal-solution composition containing coal and a solvent therefor, and heating the resulting product to remove solvent and to carbonize the coal.

1,916,334. BRUSH. ARTHUR C. ROUNDS, Scituate, R. I. Filed May 31, 1930. Serial No. 457,706. 1 Claim. (Cl. 15—176.)



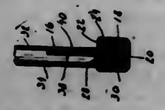
In a reversible ended dust brush, a permanent handle member having a handle-forming rear end and a narrow front end having an unapertured unbroken top surface and a bottom surface for attachment of the head member thereto and having an attaching member embedded therein and projecting downwardly from the lower portion thereof substantially centrally thereof, a replaceable cooperating narrow head member having an attaching socket substantially centrally thereof, a top surface adapted to abut the bottom surface of said handle member and the bottom surface having brush means projecting downwardly therefrom, one of said contacting surfaces being concaved and the outer convexed from one side to the other to rest one within the other and firmly retain the members from relative lateral movement and an attaching member adapted to cooperate with said aperture in said head member and said attaching member in said handle member to secure said members together, one of said attaching members comprising a threaded male member and the other a threaded female member.

1,916,335. SYSTEM FOR PREVENTING ELECTRICAL IGNITION OF RESERVOIR STORED INFLAMMABLES. ELMER R. SCHAEFFER, Crestwood, N. Y., assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 17, 1927. Serial No. 161,623. 6 Claims. (Cl. 173—31.)



1. The combination of a structure with a series of other structures, each of the latter in the form of a lightning rod constructed independently of the first structure, each rod spaced from the first structure and extending to a height towering a substantial distance above the first structure to protect the latter against a direct lightning stroke, and a metallic shield for the structure independent of the rods for shielding said first structure against the inductive effect of a lightning discharge and thereby preventing a discharge between two adjacent points in the first structure.

1,916,336. CUSHIONED FOOT FOR CHAIRS. GEORGE D. SCHERMERHORN, Reading, Mich. Filed May 15, 1931. Serial No. 537,632. 8 Claims. (Cl. 45—137.)



5. In combination with a chair leg, a foot structure therefor comprising a shank element bent upon itself to provide a hollow tubular portion arranged at the end of the chair leg with an end portion of the shank element overlapping and secured to the chair leg and cushioning material molded within and about said tubular portion of the shank element.

1,916,337. HEAT INTERCHANGING APPARATUS. WALTER A. SCHMIDT, Los Angeles, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Nov. 28, 1931. Serial No. 577,767. 12 Claims. (Cl. 257—251.)

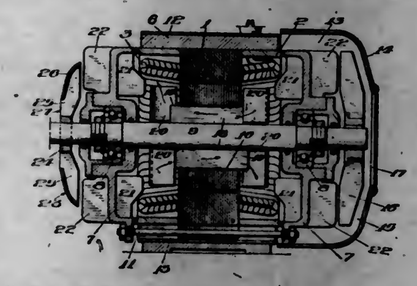


1. The method of performing a heat interchanging operation upon a gas containing material which tends to form a deposite upon the heat interchanging surfaces, which consists in supplying to such gas a divided solid scouring agent, causing the gas together with the scouring agent carried thereby to move in contact with a heat interchanging surface with sufficient velocity to remove therefrom material deposited thereon from the gas, and maintaining said surface at a temperature different than that of said gas.

1,916,338. BEARING. CHARLES F. SHERWOOD, Highland Park, Mich., assignor to Sherwood Patents, Ltd., San Francisco, Calif., a Corporation of California. Filed Nov. 13, 1929. Serial No. 407,020. 3 Claims. (Cl. 75—1.)

2. The method of forming a porous metal bearing which comprises compressing powdered copper, powdered tin, graphite, and a volatilizable lubricant into a briquette, and immersing said briquette in a molten cyanide bath, said lubricant having a volatilizing temperature lower than the fusion temperature of the cyanide bath.

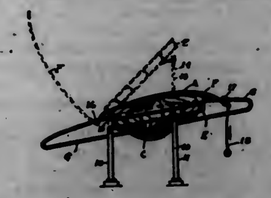
1,916,339. DYNAMO-ELECTRIC MACHINE. HAROLD L. SMITH, Milwaukee, Wis., assignor to The Louis Allis Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 14, 1929. Serial No. 414,063. 6 Claims. (Cl. 171—252.)



1. A dynamo electric machine, comprising a stator, a rotor arranged within said stator and having air passages extending axially therethrough between its winding slots and its axis, and a fan blade arranged at opposite ends of alternate passages substantially in alignment therewith and shaped to draw air through alternate passages in opposite directions and exhaust it radially outward.

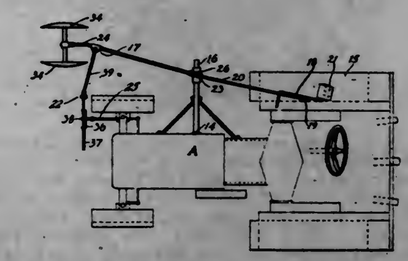
1,916,340. FLYING MACHINE. NICK P. SOFTIS, St. Louis, Mo. Filed Aug. 1, 1930. Serial No. 472,455. 26 Claims. (Cl. 244—21.)

24. In combination with an aeroplane, a parachute, a parachute holder, means mounting said holder on the aeroplane and tending constantly to project the holder into the aeroplane slip stream, and releasable means normally restraining said holder against projection, said mounting means comprising projectible members mounted perma-



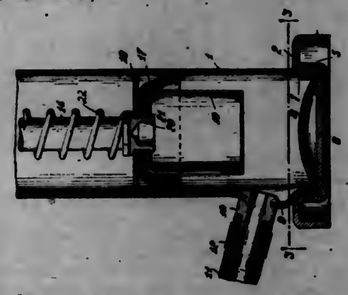
nently on the aeroplane, and releasable connections between the holder and said projectible members, said connections being of a type to be released by the pull of the parachute shrouds.

1,916,341. TRACTOR GUIDE. KARL A. SPIETH, Kearney, Nebr. Filed Feb. 5, 1931. Serial No. 513,608. 14 Claims. (Cl. 97—49.)



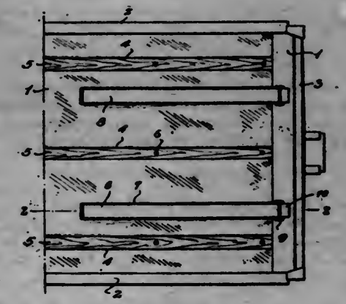
1. In a tractor guide structure, an approximately horizontal supporting-frame projecting from the side and rigidly secured to the tractor, a push-rod extending forwardly and fulcrumed on said frame and provided with a furrow-guide, a steering-arm extending forwardly of the tractor and connected with the steering mechanism thereof, a link connecting the push-rod with said steering-arm, a standard fulcrumed on the supporting-frame, a truss-rod connecting the push-rod with the standard, and an operating-rod movable to cause a rearward swinging movement of the standard for elevating the push-rod and said furrow-guide.

1,916,342. TIRE PUMP. EVERARD JOHN SULLIVAN, Racine, Wis., assignor to Walker Manufacturing Company, Racine, Wis., a Corporation of Wisconsin. Filed May 5, 1932. Serial No. 609,459. 2 Claims. (Cl. 230—238.)



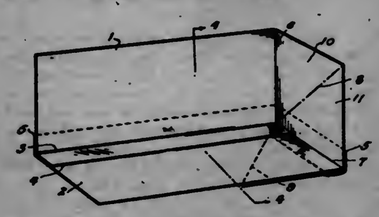
1. In a tire pump, a tubular pump cylinder, a sheet metal supporting base formed with an upwardly opening socket closed at its lower end and having cylindrical side walls to snugly receive the lower end of the tube, and an upwardly dished sheet metal disc forced downwardly through the tube and expanded within the lower end of the tube by pressure applied upon the upwardly extending crown of the disc so that the peripheral edge of the disc is forced outwardly to clamp the tube within the cylindrical socket.

1,916,343. RAILWAY FREIGHT CAR CONSTRUCTION. JOHN J. TATUM, Baltimore, Md. Filed Nov. 8, 1930. Serial No. 494,399. 3 Claims. (Cl. 105—406.)



1. A railway car or other freight carrying vehicle having a metallic floor provided with longitudinally extending pockets adjacent an end wall thereof, and stakes hinged to the floor adjacent to said end wall for swinging movement downwardly into said pockets or upwardly so as to rest against said wall.

1,916,344. BULK CAR LINER. CARL A. THOMS and JAMES M. SMITH, Shelbyville, Ind., assignors to The Kennedy Car Liner & Bag Co., Shelbyville, Ind., a Corporation of Indiana. Filed Mar. 3, 1932. Serial No. 596,605. 2 Claims. (Cl. 105—423.)

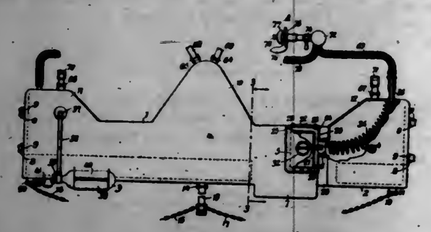


1. A car liner section formed of two sheets of paper or other fabric flimsy in view of its extent, folded to form a base, side and end walls, the base and wall sheets being lapped to provide reinforcement where the floor and walls of a car meet, half of the reinforcing lapping being adapted to extend along a side and an end of a car and half adapted to extend along the floor adjacent said side and end, the end wall being miter creased from the common corner of said base, side and end walls, to fold in between the base and side wall, said miter crease reinforcing the end wall by defining a dihedral angle in said end wall of increasing magnitude as said liner is opened up and persisting until said walls have assumed substantially perpendicular relation.

1,916,345. LIFE SAVING APPARATUS FOR AVIATORS. CLARENCE LOUIS TIBBALS and FRANK MILLARD HOBSON, Washington, D. C. Filed Oct. 14, 1929. Serial No. 399,570. 12 Claims. (Cl. 128—191.)

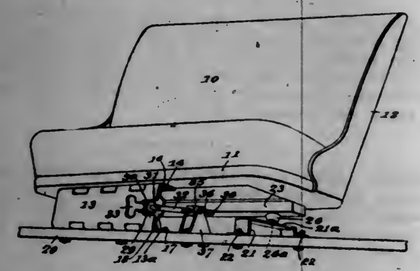
1. A life saving device comprising a body encircling inflatable reservoir having two inflatable compartments

of different lengths, one of said compartments having an upward extension for supporting the body of the wearer upright a shorter upward extension at one end and the other compartment having a like shorter extension, said



shorter extensions combining to balance tipping action of the longer extensions, an air purifying chamber forming a connection between the two compartments and a breathing tube connected to each compartment.

1,916,346. VEHICLE SEAT. MILLARD H. TONCRAY, Detroit, and JAMES W. GERIG, Grosse Pointe Park, Mich., assignors to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 3, 1928. Serial No. 316,979. 9 Claims. (Cl. 155—14.)



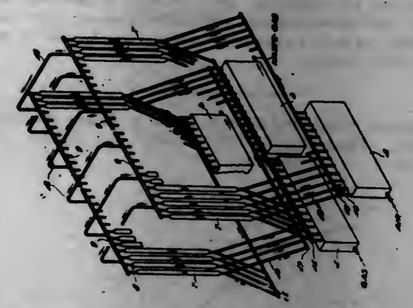
7. In a vehicle body, a seat, separate supports for the front and rear portions of the seat for supporting the seat upon the floor of the body and permitting the seat upon the floor of the body and permitting the seat to move forwardly or rearwardly, one of said supports comprising a link pivotally connected at one end to the floor and at its other end to the seat, a member positioned so as to have a fixed relation to one end of said link, and an adjusting screw connecting said member and link at a point spaced from said end of the link and adapted to move the seat longitudinally of the body.

1,916,347. PRESS CAGE. CHARLES B. UPTON, Piqua, Ohio. Filed May 30, 1930. Serial No. 457,670. 3 Claims. (Cl. 100—54.)



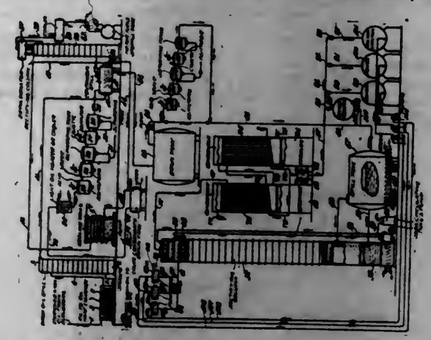
1. A cage for oil expressing presses comprising a shell which is of substantially circular interior cross section, drainage plates of substantially segmental circular cross section arranged interiorly in said shell and provided with oil drainage openings, longitudinal securing bars attached to said shell between and engaging the longitudinal side edges of said drainage plates for securing the plates to the shell, said shell and drainage plates having registering circumferential grooves and locking keys extending circumferentially of the cage between said securing bars in registering circumferential grooves in said shell and drainage plates, for securing said drainage plates against longitudinal movement in said shell.

1,916,348. COKING RETORT OVEN. JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignor to The Koppers Company of Delaware, a Corporation of Delaware. Filed Aug. 10, 1928. Serial No. 298,864. 14 Claims. (Cl. 202—141.)



1. In a coking retort oven structure, two adjacent heating walls having flame flues therein, means for connecting the flame flues of one wall in series with those of the other wall, two parallel rows of regenerators beneath said walls, each regenerator extending about half the length of one of said heating walls, means for communicably connecting the flame flues of one of said walls to two adjacent regenerators in one of said rows and means for communicably connecting the flame flues of the other wall to two regenerators in the other row that are staggered with respect to the first-mentioned two regenerators.

1,916,349. RECOVERY OF HYDROCARBON OILS. JOSEPH VAN ACKEREN, O'Hara Township, Allegheny County, Pa., assignor to The Koppers Company of Delaware, a Corporation of Delaware. Filed July 22, 1930. Serial No. 469,702. 15 Claims. (Cl. 202—40.)



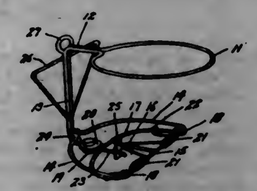
1. In the process of distilling a hydrocarbon oil containing a small number of constituents of widely different boiling points for the recovery of said constituents in substantially pure form, the steps which comprise heating the oil to vaporize the constituent of lower boiling point, passing the vapors thereof through a rectifying column, condensing said vapors, introducing said

constituent in substantially pure form to said column as reflux and discontinuing said introduction of reflux when the constituent of next higher boiling point appears in the distillate.

1,916,350. MANUFACTURE OF COLOR-PICTURES. BRUNO WENDT, HANS BINCER, and ALFRED FRÖHLICH, Dessau in Anhalt, Germany, assignors to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed July 18, 1931, Serial No. 551,805, and in Germany Aug. 18, 1930. 5 Claims. (Cl. 95—7.)

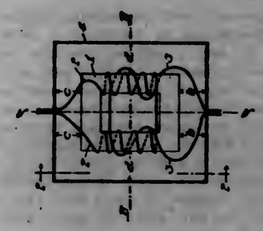
1. The process which comprises incorporating into a light-sensitive layer containing a basic bleaching-out dye and a sensitizer a substance of acid reaction.

1,916,351. FIRE EXTINGUISHER. CLAUDE S. WHITMAN, Denver, Colo. Filed May 9, 1932. Serial No. 610,105. 3 Claims. (Cl. 169—26.)



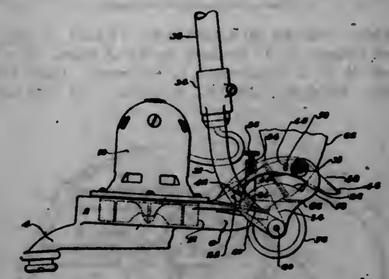
1. A holder and breaker for fire extinguishing grenades comprising: a circular wire loop for supporting said grenade, the extremities of the wire forming said loop being brought together in parallel relation and extended rearwardly to form a bracket member thence downwardly to form a wall portion; thence outwardly in a plane parallel with the plane of said loop, the latter portions of said wire being separated from each other, thence turned inwardly toward each other to form a spring shaft; a second arcuate wire member hinged at its extremities on said spring shaft; a striker member secured intermediate the extremities of said second wire member; and spring means for swinging said second wire member so as to cause said striker member to strike said grenade.

1,916,352. TRANSFORMER. ALBERT J. WILLIAMS, Jr., Philadelphia, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 2, 1932. Serial No. 590,331. 8 Claims. (Cl. 175—356.)



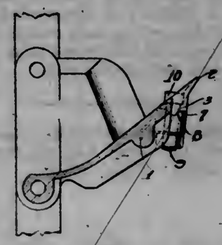
1. A shielded transformer comprising a rectangular core structure having two parallel leg portions with the transformer windings symmetrically disposed thereon, said core structure and windings being symmetrically disposed on either side of two planes, one of which is midway between and parallel to the axes of the windings, and the other of which passes through and midway between the ends of the windings, said planes being perpendicular to each other and to an imaginary plane through said axes.

1,916,353. VACUUM CLEANER. GEORGE W. ALLEN, Boston, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Mass., a Corporation of Massachusetts. Filed Apr. 4, 1931. Serial No. 527,765. 1 Claim. (Cl. 15—16.)



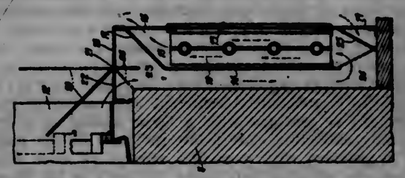
A vacuum cleaner comprising a substantially horizontal fan casing having an outlet extension at the rear thereof, a pair of vertical flanges extending rearwardly from the casing one on each side of the extension, an axle mounted in said flanges, wheels mounted on the axle, a guiding handle mounted on the axle, an adjustable stop device for the handle carried by one of the flanges, an outlet connection, a dust bag secured thereto, and means pivoted to the flanges for detachably securing the connection to the outlet extension.

1,916,354. DIGGING BUCKET. HARRY H. BARBER, Aurora, Ill., assignor to Barber-Greene Company, Aurora, Ill., a Corporation of Illinois. Filed June 25, 1931. Serial No. 546,847. 7 Claims. (Cl. 37—142.)



1. A cutting tooth for a digging bucket having a base portion provided with a centering projection and shoulders adjacent the sides of said projection, said base portion merging in upwardly extending bevelled side walls connected by a forwardly inclined front wall, the construction being such that the cutting action transmits mostly a compressive force with respect to the base.

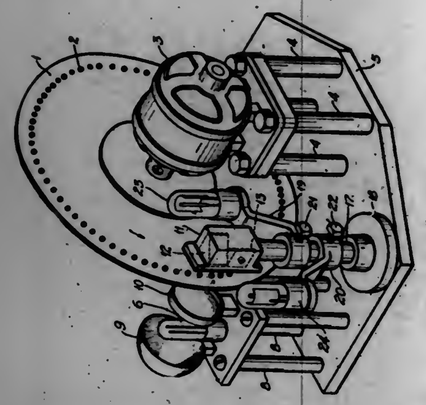
1,916,355. WINDOW VENTILATOR. IRVING T. BENNETT, Brooklyn, N. Y., assignor, by mesne assignments, to Metropolitan Engineering Company, a Corporation of New York. Filed May 4, 1929. Serial No. 360,331. 15 Claims. (Cl. 257—136.)



1. In combination with a radiator and a window of a casing for said radiator having a downward passage back of said radiator and a passage to said radiator from the

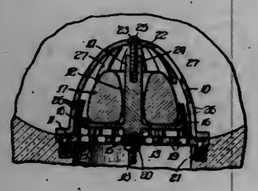
lower part of said passage, a deflecting damper at the upper end of said downward passage tiltable to deflect air from said window into said passage or to close said passage and direct said air in an upward direction.

1,916,356. PHASE MULTIPLIER. CHANCE E. BOHNES, East Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 5, 1931. Serial No. 513,562. 8 Claims. (Cl. 250—41.5.)



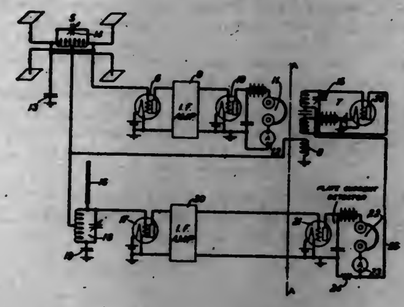
1. A phase multiplier comprising, means for producing a beam of light, means for periodically intercepting said beam of light, a plurality of photoelectric cells, a polyphase circuit interconnecting said photoelectric cells, and means for directing said intercepted beam of light to different ones of said photoelectric cells.

1,916,357. DEODORANT HOLDER. HENRY J. BROWNSTEIN, Chicago, Ill. Filed May 15, 1931. Serial No. 537,586. 3 Claims. (Cl. 4—109.)



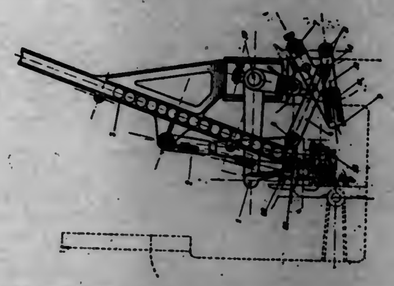
1. In a device of the character described, an openwork spider having an upright stem at its center and a plurality of fingers which radiate from a point just above the bottom of the stem into widely separated relation to each other, which spider is adapted to receive a centrally apertured block of deodorizing material with the bottom of the block resting on the fingers, means for fastening the bottom of the stem to the drain plate of a urinal with the fingers in spaced relation to the drain plate, a removable strainer cap cupped over the spider with the rim of the cap in substantial abutment with the drain plate, which cap is provided with a large number of narrow vertically extending slots below the level of the fingers and is provided with a smaller number of much larger downwardly opening slots above the level of the fingers, and means at the center of the top of the cap for detachably securing the latter to the top of the stem of the spider.

1,916,358. RADIO DIRECTION FINDER. EDMOND BRUCE, Red Bank, and HARALD T. FRIIS, Rumson, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 17, 1930. Serial No. 489,286. 9 Claims. (Cl. 250—11.)



1. In combination, an antenna of adjustably directive characteristics, a substantially non-directive antenna, a radio receiver associated with each of said antennæ and both adapted to receive the same waves, and means responsive to the output of the receiver associated with the non-directive antenna for maintaining the output of the other receiver substantially constant irrespective of variations in the field strength of the received waves.

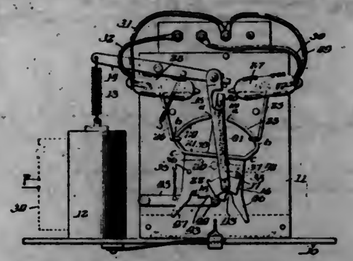
1,916,359. AUTOMATIC WEFT REPLENISHING AND WEFT CUTTING DEVICE FOR LOOMS FOR WEAVING. JUAN PICAÑOL CAMPS, Sabadell, Spain. Filed Jan. 24, 1931, Serial No. 510,991, and in France Mar. 7, 1930. 3 Claims. (Cl. 139—243.)



1. An automatic weft replenishing device for looms for weaving, comprising in combination with the machine frame and the sley, a hammer pivotally mounted on said frame, a bobbin conveyor coacting with said hammer, and means for moving said hammer and said conveyor in synchronism and imparting to said hammer and said conveyor an individual movement having a horizontal component synchronizing with the horizontal component of the movement of the sley, a weft cutting device, a cutter of said device on said sley, a cutter of said device movable with said conveyor adapted to coact with the cutter on said sley to effect the cut before the spent weft carrier is removed from the shuttle.

1,916,360. MOTOR OPERATING SWITCH. HERBERT W. CRANE, Oak Park, Ill. Filed Aug. 6, 1931. Serial No. 555,523. 6 Claims. (Cl. 200—17.)

1. In combination a support, a rocker arm thereon, means for actuating the rocker, a pendulous member connected to one end of the rocker said pendulous member having a hook at its extremity, a throw piece pivoted for oscillation on the support, said piece providing a cam track and having a series of spaced projections on its face, a pair of circuit closers mounted for oscillation on the support and having arms in engagement with said



cam track, and spring means connected to the throw piece and the pendulous member acting to position the hook on the pendulous member relative to the projections on the throw piece.

1,916,361. METHOD AND APPARATUS FOR STRIPPING HOSE FROM MANDRELS. NATHANIEL H. CURTISS, Passaic, N. J., assignor to New York Belting and Packing Company, New York, N. Y., a Corporation of New York. Filed Aug. 10, 1931. Serial No. 556,075. 8 Claims. (Cl. 154—8.)



1. That improved method of stripping hose from a mandrel during the manufacture thereof, which consists in compressing and distorting the hose progressively throughout its length to break the same loose from the mandrel, holding the hose throughout its length on the extremities of a diameter and withdrawing the mandrel from the interior of the hose.

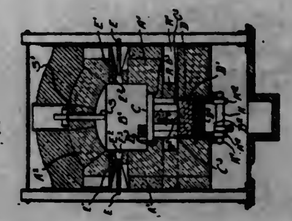
1,916,362. LOOM REWARPING ATTACHMENT, AUTOMATIC WARP TENSION PLATE AND SECTIONAL GUIDE. JOHN DENT, National Military Home, Los Angeles County, Calif. Filed June 30, 1931. Serial No. 547,838. 4 Claims. (Cl. 28—33.)



1. In warp guiding and tension mechanism for warpers, sectional adjustable plates adjustably carried by the warper, warp guides carried by said plates, resilient reed combs secured to said warp guides, and slack elimination means mounted to one of said adjustable plates.

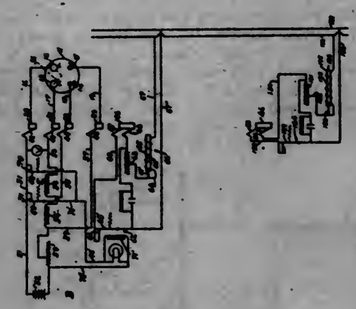
1,916,363. TUNNEL KILN. PHILIP D'HUC DRESSLER, Pittsburgh, Pa., assignor to Swindell-Dressler Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 14, 1930. Serial No. 495,660. 20 Claims. (Cl. 25—142.)

9. A tunnel kiln comprising a kiln chamber having enclosing top and side walls, a fuel burner located in one of said side walls for supplying a combustible mixture to said chamber to be burned in suspension therein, a plurality of refractory slabs forming the bottom wall of said chamber and supporting the articles to be heat treated in a position subjected to the radiant heat of the burning mixture, slab supporting and conveying means arranged in substantially the same position at all times



longitudinally relative to said kiln chamber, a heating gas passage formed in said supporting and conveying means, and means for passing high temperature heating gases from said chamber downwardly through said slabs and through said passage for heating the bottom wall of said chamber.

1,916,364. AUTOMATIC TESTING APPARATUS. ALLEN B. DU MONT, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Apr. 27, 1928. Serial No. 273,233. 2 Claims. (Cl. 209—81.)

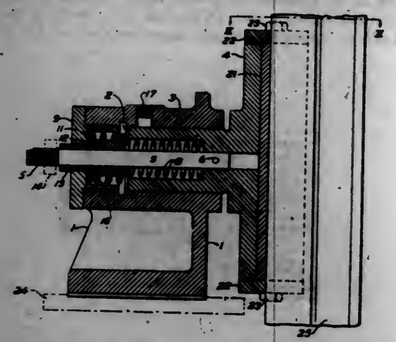


1. An electrical testing system comprising a testing circuit, a supervisory circuit, an electrically operable ejector means in said supervisory circuit, a relay controlling said supervisory circuit, means for amplifying the flow of energy through said testing circuit from a device being tested to actuate said relay to cause electrical energy to flow through said supervisory circuit and actuate said ejector means and means for actuating said ejector means in the absence of a flow of electrical energy through said amplifying means.

1,916,365. ELEVATOR GUIDE SHOE. JAMES DUNLOP, Park Ridge, Ill., assignor to Westinghouse Electric Elevator Company, a Corporation of Illinois. Filed Dec. 3, 1930. Serial No. 499,723. 3 Claims. (Cl. 187—95.)

1. An elevator guiding means comprising a shoe provided with an elongated recess for receiving a guide rail, a cylindrical shank projecting laterally from the shoe, a standard provided with an orifice for receiving said

cylindrical shank, whereby the shoe is slidably and rotatably mounted, a comparatively weak spring continuously engaging the shoe for biasing it toward the rail,

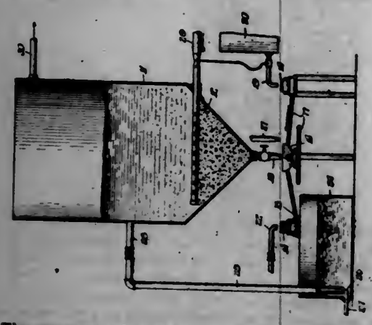


and a relatively strong spring mounted for engaging the shank when the oscillations of the shoe exceed a predetermined amplitude.

1,916,366. LAMP MANUFACTURE. MARK N. FREDENBURGH, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Aug. 21, 1930. Serial No. 476,951. 10 Claims. (Cl. 176—2.)

1. A getter composition for evacuated devices comprising finely comminuted inert material and relatively coarse phosphorus.

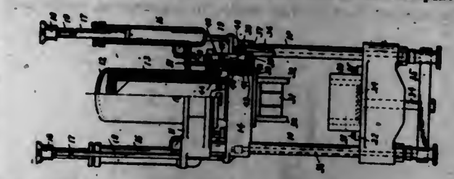
1,916,367. PROCESS FOR SOFTENING WATER. WALTER H. GREEN, Chicago, Ill., assignor, by mesne assignments, to The Permutit Company, New York, N. Y., a Corporation of Delaware. Original application filed July 19, 1924, Serial No. 726,930. Divided and this application filed Dec. 13, 1926. Serial No. 154,367. 3 Claims. (Cl. 210—24.)



1. The process of softening water, which comprises passing water to be softened through a quantity of zeolites consisting of grains, the size of a major portion of which are within a range substantially less than 40 to 50 mesh.

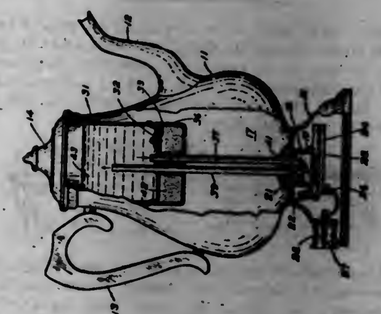
1,916,368. MOLD PRESS. PAUL O. GUNKEL, Welland, Ontario, Canada, assignor to Joseph Stokes Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Nov. 6, 1929. Serial No. 405,221. 13 Claims. (Cl. 18—19.)

2. In mechanism of the class described, a bottom mold plate, side mold plates interengaging said bottom plate at the edges thereof and adapted to open in order to free the molded article, a vertically movable platen, a core depending therefrom, means for raising said platen to pull said core out of the molded article, and means actuated thereafter by the upward travel of the platen



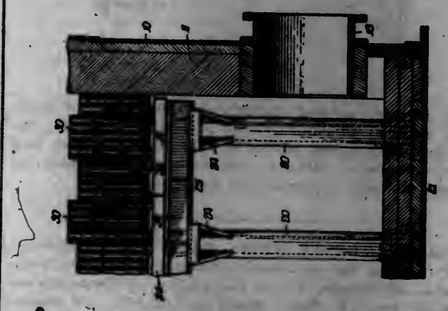
for raising said mold plates and simultaneously causing the mold side plates to open outwardly in order to permit the removal of the molded article.

1,916,369. LIQUID INFUSION DEVICE. CLYDE C. HARPSTER, Madison Township, Richland County, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 19, 1930. Serial No. 503,425. 5 Claims. (Cl. 53—3.)



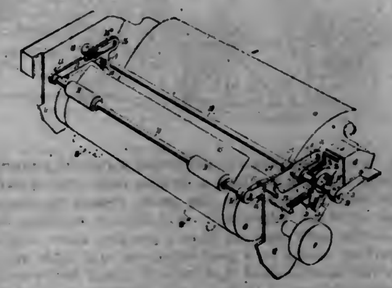
1. A percolator including a coffee-beverage container, a ground-coffee basket and a water container thereabove and both located in the coffee-beverage container, means for heating water in the water container by percolating, and means in said water container to ensure that water shall flow therefrom into the coffee basket in a continuous stream when the temperature of the water has reached a predetermined value.

1,916,370. CHECKER SUPPORT. JOHN C. HAYES, Jr., and CHARLES G. BIGELOW, Chicago, Ill., assignors to Freyn Engineering Company, Chicago, Ill., a Corporation of Maine. Filed Mar. 6, 1931. Serial No. 520,727. 11 Claims. (Cl. 263—19.)



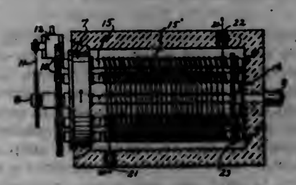
1. Supporting means for use in hot blast stoves for supporting checker-brick, comprising in combination main supporting columns, a metallic grating supported thereby, and metallic shoes supported by said grating.

1,916,371. TYPEWRITING MACHINE. WILLIAM F. HELMOND, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed July 22, 1931. Serial No. 552,370. 22 Claims. (Cl. 197—138.)



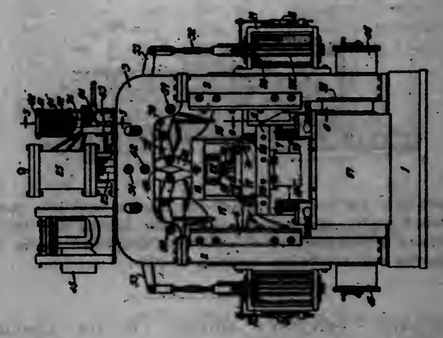
13. In a typewriting machine, the combination with a platen and platen-frame, of a rock-shaft journaled in said frame, a rigid bail rockably and shiftably mounted upon said shaft, rolls slidably mounted on said bail, an overthrow spring for holding said rolls yieldingly pressed against the platen or holding said bail fast in various released positions, and means actuated by the displacement of said bail for automatically controlling the operative positions of said spring.

1,916,372. WIRE HEATING APPARATUS. WILLIAM M. HEPBURN and RALPH S. FEARNSIDE, Toledo, Ohio, assignors to Surface Combustion Corporation, Toledo, Ohio, a Corporation of New York. Filed Feb. 10, 1932. Serial No. 592,025. 2 Claims. (Cl. 263—3.)



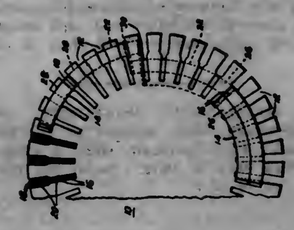
2. In apparatus for progressively heating a continuous length of wire rod or wire, the combination with a furnace chamber, of a reel therein whereon loops of the wire may be supported during the heating of the wire in said chamber, the loop-supporting elements of said reel comprising shafts having screw threads, means for rotating the shafts when the reel is rotated, said threads forming guideways for wire looped about the reel, and means for initially looping the wire around said reel, said means comprising a floating ring adapted to be moved axially of the reel when engaged by the threads of said shafts.

1,916,373. WELDING. HENRY S. HOLMES, New York, N. Y., assignor, by mesne assignments, to Metropolitan Engineering Company, a Corporation of New York. Filed Aug. 5, 1926. Serial No. 127,202. 7 Claims. (Cl. 219—4.)



1. An electric welding machine including electrodes, pneumatic means for clamping the workpieces together between said electrodes with a comparatively light and substantially constant pressure, and solenoid mechanism adapted to exert a powerful pressure to take up the work.

1,916,374. ARMATURE WINDING. CHARLES F. JENKINS, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 7, 1932. Serial No. 621,162. 6 Claims. (Cl. 171—206.)

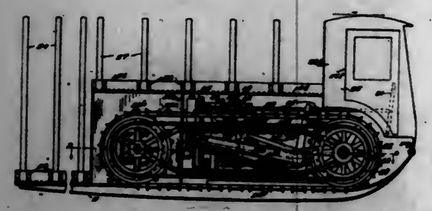


1. A dynamo-electric machine having a rotor member comprising a core having stepped slots, the top portion of the slots being approximately twice as wide and half as deep as the bottom portion, and an armature winding cooperating therewith, said armature winding being composed of portions of uniform cross-section throughout its length, said winding being arranged with two portions disposed one above the other in the bottom portions of the stepped slots, and with two portions disposed side-by-side in the top portions of the stepped slots.

1,916,375. SLED WITH ENDLESS TRACK DRIVE. GEORGE S. KNICKERBOCKER, Minneapolis, Minn., assignor of one-half to James G. Bennett, Minneapolis, Minn. Filed Nov. 22, 1930. Serial No. 497,446. 11 Claims. (Cl. 180—5.)

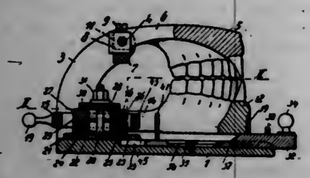
1. A vehicle having in combination, a frame adapted to carry the load, a shaft carried by said vehicle frame, a track frame at each side of said vehicle frame journaled

adjacent its front end on said shaft, front and rear track sprockets in said frames, an endless track for each frame running over said track sprockets, shafts journaled in the rear end of said track frames to which said rear track



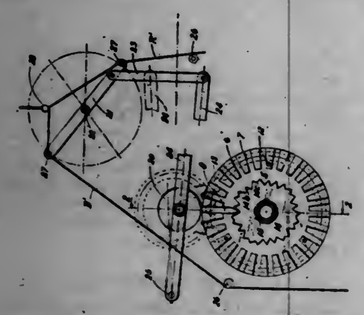
sprockets are secured, means for driving said last mentioned shafts, and separate means for forcing said track frames downwardly about said first mentioned shafts to depress said tracks for securing additional traction.

1,916,376. DENTIST'S MODEL. WALTER KÖHLER, Munich, Germany. Filed Nov. 20, 1930, Serial No. 496,919, and in Germany Sept. 23, 1930. 16 Claims. (Cl. 35—16.)



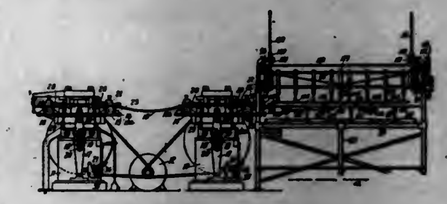
1. A dentist's model comprising a foundation plate, a pin on said foundation plate, a frame surrounding said pin with an opening which is larger than said pin, a jaw attached to said frame at one end and supported on said foundation plate at the other end, and means on said pin for fixing said frame on said plate in any desired position.

1,916,377. MECHANICAL MOVEMENT. JOSEPH D. KRRIS, Cleveland, Ohio, assignor to The Erie Dyeing & Processing Co., Cleveland, Ohio, a Corporation of Ohio. Filed May 4, 1932. Serial No. 609,163. 10 Claims. (Cl. 74—1.)



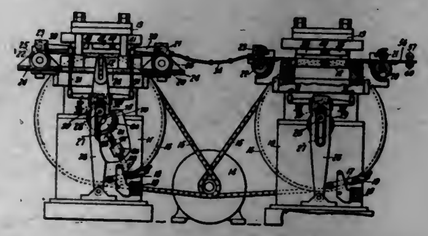
1. In mechanism of the class specified, a plurality of radially movable cam units, means for supporting said units in operative association, and a relatively rotatable hunting gear provided with teeth adapted to engage said units, the number of teeth in said gear and the number of units being prime with respect to one another.

1,916,378. STRIP DELIVERY MECHANISM FOR PUNCH PRESSES AND THE LIKE. GEORGE H. LELAND, Dayton, Ohio, assignor of one-half to The Leland Electric Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 9, 1931. Serial No. 573,785. 63 Claims. (Cl. 271—18.)



1. In a mechanism for delivering strips of material to a punch press or the like, a feeding table over which the strips may be moved to the press, means to support a supply of strips adjacent to said table, a carriage, means for moving said carriage from a position above said strip supporting means to a position above said table and lowering the same toward said table, a lifting device mounted on said carriage, and means controlled by the position of said carriage to cause said lifting device to operatively engage a strip on said supporting means when said carriage is positioned above said supporting means and to release said strip when said carriage is lowered to a position adjacent to said table.

1,916,379. PUNCH PRESS MECHANISM AND AUTOMATIC STOP THEREFOR. GEORGE H. LELAND, Dayton, Ohio, assignor of one-half to The Leland Electric Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 12, 1931. Serial No. 574,549. 12 Claims. (Cl. 192—127.)



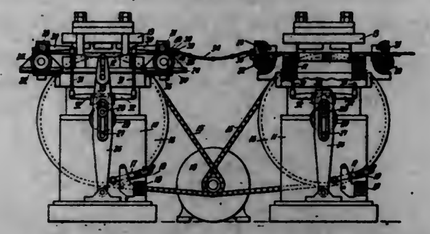
1. In a punch press comprising a ram having means to support a die member for operation on a strip of material having a previously formed opening therein, and means to interrupt the operation of said ram; a plunger yieldably mounted on said ram and arranged to pass through said opening when said strip is properly positioned with relation to said die and to engage said strip and to be actuated thereby when said strip is improperly positioned with relation to said die, and means controlled by the movement of said plunger to operate said interrupting means.

1,916,380. SYNCHRONOUSLY OPERATED PUNCH PRESS. GEORGE H. LELAND, Dayton, Ohio, assignor of one-half to The Leland Electric Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 19, 1931. Serial No. 576,025. 18 Claims. (Cl. 164—22.)

12. A punch press mechanism comprising a plurality of presses having dies to act progressively on a given portion of a strip of material, means for operating said presses in synchronism, a chute to conduct a strip from one press to a succeeding press, said chute having openings therethrough near the discharge end thereof, arms pivotally mounted beneath said chute and extending lengthwise

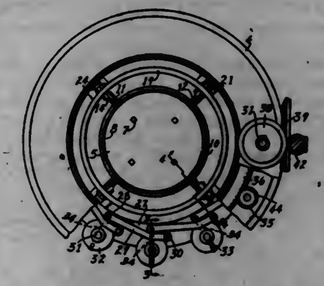
CARNEGIE LIBRARY OF ATLANTA

thereof, studs carried by the respective arms and extending through said openings into said chute, stops rigidly secured to said arms and arranged to engage the respective edges of said chute to limit the inward movement



of the arms, and yieldable means acting on said arms to hold said stops normally in engagement with said chute, said yieldable means being arranged to exert greater pressure on one arm than on the other.

1,916,381. BARREL RAISING MACHINE. ROBERT W. MCCLENNY, Lewiston, N. C., and GUY L. CARPENTER, Benton Harbor, Mich., assignors to St. Joseph Iron Works, St. Joseph, Mich., a Corporation of Michigan. Filed Dec. 17, 1930. Serial No. 502,894. 7 Claims. (Cl. 147—2.)



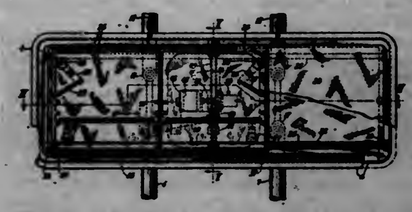
1. In an apparatus of the class described, the combination with barrel stave holding devices of a plurality of substantially radially movable shoes, a rotary ring and connections through which a corresponding movement is simultaneously imparted to each shoe by the rotary movement of said ring, each shoe being pivotally mounted on a separate circumferentially extending arm and each arm being pivoted to a stationary part of the apparatus.

1,916,382. MOUNTING FOR GUY PROTECTORS OR GUARDS. ARNOLD MCILRATH, Pittsburgh, Pa., assignor to Hubbard and Company, a Corporation of Pennsylvania. Filed July 30, 1932. Serial No. 626,270. 14 Claims. (Cl. 189—81.5.)



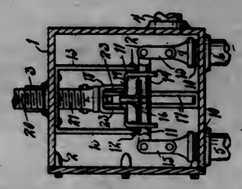
1. The combination with a guard or protector of the character described having a clamp adapted to secure the upper end thereof to a guy, of a mounting at the lower end comprising two parallel members connected to the lower end of the guard and disposed on opposite sides of the guy, and means disposed on the underside of the guy and connecting the parallel members of said mounting, said connecting means bearing on the underside and the lower portion of the guard bearing on the topside of said guy to form a clamp to hold the lower end of the guard in position.

1,916,383. STEREOSCOPIC PLATE SHIFTER. MONTFORD MORRISON, Montclair, N. J., assignor to Westinghouse X-Ray Company, Inc., a Corporation of Delaware. Filed Sept. 3, 1931. Serial No. 560,933. 13 Claims. (Cl. 250—84.)



1. In a radiographic plate changer, a casing, a carriage mounted for reciprocatory movement in a single plane within said casing, an operating member mounted for reciprocatory movement in a plane at right angles to and crossing the plane of movement of said carriage, a crankshaft interconnecting said operating member and said carriage, and means for moving said operating member to impart reciprocatory movement to said carriage.

1,916,384. COMPOUND COMPRESSION STOP AND WASTE VALVE. CHARLES A. NEWBERG, Fort Worth, Tex. Filed Apr. 1, 1929. Serial No. 351,806. 3 Claims. (Cl. 277—14.)



1. A compound compression stop and waste valve including a housing, inlet and outlet pipes communicating with the said housing, a closure for certain ones of said pipes, a double fulcrum assembly operatively disposed within the said housing to actuate all of the said closures simultaneously and one of the said closures oppositely to the others of the said closures.

1,916,385. FOOTBALL LINE CHARGING APPARATUS. BERNARD F. OAKES, Lincoln, Nebr. Filed Jan. 22, 1931. Serial No. 510,341. 8 Claims. (Cl. 273—55.)



1. In a football line charging apparatus, the combination of a head element that represents an offensive lineman, a supporting structure, a carrier for said head element consisting of a horizontally-disposed leaf spring

mounted on said supporting structure so that the length of said spring can be varied, a movable body element arranged in spaced relationship with said head element at one side of same, and a resilient means for resisting outward movement of said body element relatively to said head element.

1,916,386. MALLEABLE NICKEL HAVING IMPROVED WELDING QUALITY. NORMAN BODEN PILLING, Elizabeth, N. J., assignor to The International Nickel Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Sept. 6, 1929. Serial No. 390,856. 6 Claims. (Cl. 219—8.)

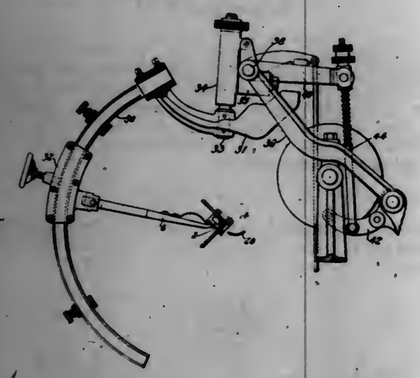
1. As an article of manufacture, a welding element composed of more than 95% refined nickel, about 0.20% to about 0.8% silicon and more than about 0.12% to about 0.3% magnesium, said magnesium being present in sufficient amount not only to combine with sulphur present to render it harmless but also to be available for functioning actively during fusion welding.

1,916,387. BRAKE SHOE REENFORCE. ROBERT B. POGUE, Orange, N. J., assignor to The American Brake Shoe and Foundry Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 4, 1932. Serial No. 584,741. 8 Claims. (Cl. 188—258.)



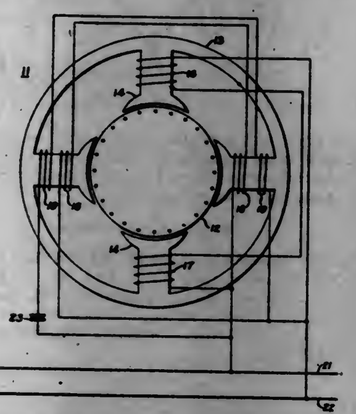
1. A reenforce for brake shoes having a baked semi-enamel protective coating thereon.

1,916,388. MACHINE FOR SEWING BAG CORNERS. ALFRED EDWARD RICHARDS, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 27, 1931, Serial No. 547,425, and in Great Britain Jan. 15, 1931. 9 Claims. (Cl. 112—62.)



1. A machine for sewing bag corners and the like having, in combination, stitch forming devices, a work support arranged with angularly disposed work engaging surfaces, a work entering horn movable about a plurality of axes intersecting the end of the horn, a block mounted for universal movement at the end of the horn and formed with correspondingly angularly disposed work engaging surfaces cooperating with the surfaces of the work support for holding the edges of the materials in position to be operated upon by the stitch forming devices and spaced projections extending from the block parallel to a work engaging surface of the block to admit between them passage and work feeding movements of the stitch-forming devices.

1,916,389. CAPACITOR MOTOR. HUGH G. ROSS, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 28, 1931. Serial No. 519,116. 3 Claims. (Cl. 172—283.)



1. A capacitor motor including a rotor, a stator structure having wound thereon a main winding energised at line voltage and an auxiliary winding, a predetermined portion of which, less than the total, is energised at line voltage, and a capacitor electrically connected to the terminals of the auxiliary winding.

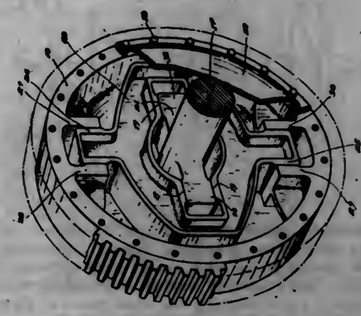
1,916,390. TOP STOP. EUGENE W. RUTHERFORD, New Haven, Conn., assignor to The Shoe Hardware Company, Waterbury, Conn., a Corporation of Connecticut. Filed Sept. 10, 1931. Serial No. 562,089. 8 Claims. (Cl. 24—205.)



1. In combination with a separable fastener of the kind described, having a pair of stringers, series of locking members carried by said stringers, a slide having inturned edges and movable along said stringers to effect engagement and disengagement of said locking members, of a socket formed in the inturned edges of the slider and a top stop secured to one of said stringers and arranged to pass completely into the slider and having one of its ends received in the socket.

1,916,391. CENTER-AXLE DRIVE FOR LOCOMOTIVES. JOHN P. SHAMBERGER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 28, 1931. Serial No. 519,105. 6 Claims. (Cl. 74—28.)

1. A torque-transmitting connection for a locomotive center-gear drive comprising, in combination, a motor driven gear wheel rotatively mounted in the locomotive superstructure, a rotatively mounted wheel axle extending through said gear wheel, a yoke surrounding the axle and slidably connected to the gear wheel, a driving arm connected to the wheel axle, means for so slidably connecting the said yoke and the said driving arm that the said gear wheel and said axle are permitted to move relative to each other in all directions, except in the direction in which the torque is being transmitted, means carried by the motor-driven gear wheel for enclosing the said yoke and the said arm within said gear wheel, said enclosing means forming a reservoir within said gear wheel for a lubricant



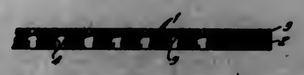
to be utilised for lubricating the slidable connections of the yoke and the driving arm, and means carried by the locomotive superstructure for enclosing the said second-mentioned motor-driven gear wheel, said enclosing means forming a separate reservoir for a lubricant to be utilised for lubricating the motor-driven gear wheel independently of the slidable connections of the yoke and the driving arm.

1,916,392. CLASSIFIER. JAMES V. SLADE, Larchmont, N. Y., assignor, by mesne assignments, to The Dorr Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 18, 1930. Serial No. 496,403. 7 Claims. (Cl. 209—18.)



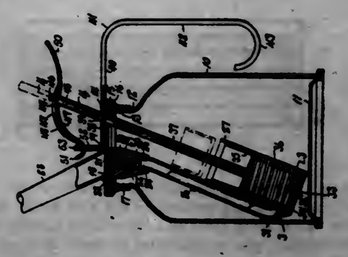
1. In a classifier, means for equalising flow of material to the classifier, a distributing plate for receiving the materials, said plate having an edge over which the materials may fall into the classifier, a baffle opposite the said edge of the plate and spaced therefrom and an apron below said edge of the plate for receiving the material and preventing the falling material from setting up a downward current in the classifier.

1,916,393. PULP SCREEN PLATE. RICHMOND W. SMITH, Walpole, Mass. Filed Sept. 23, 1931. Serial No. 564,561. 13 Claims. (Cl. 92—30.)



1. A pulp screen plate comprising a layer of rubber having openings therein, and a stiffening plate substantially coextensive with the perforate portion of said rubber and having openings therein communicating with the openings in said rubber but slightly larger in size.

1,916,394. PUMP-TYPE OILER. FRED L. V. SPRING, Waterbury, Conn., assignor to The Chase Companies, Incorporated, Waterbury, Conn., a Corporation. Filed Oct. 14, 1931. Serial No. 568,728. 7 Claims. (Cl. 221—51.)



1. In a pump-type oiler, the combination with the cap therefor provided with a plunger-guide; of a cylinder-member and a piston-member axially separable one from the other and one of which is provided with a plunger-rod extending through the said cap and reciprocating in the plunger-guide thereof, and the other of which is removably connected to the said cap by a screw-threaded connection eccentrically positioned with respect to both the said piston-member and the said plunger-guide.

1,916,395. HEAT EXCHANGE APPARATUS. ALFRED L. STAMSVIK, Grove City, Pa. Filed Jan. 14, 1931. Serial No. 508,757. 9 Claims. (Cl. 257—245.)
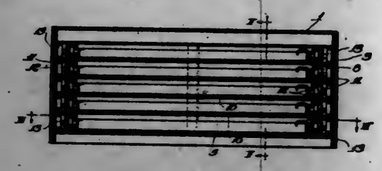


1. A heat exchange apparatus comprising a plurality of chamber forming units respectively provided on opposite sides with a plurality of spaced radial apertured lugs and a boss connecting two adjacent lugs, said boss having a port opening therethrough and said boss being provided with a groove connecting the bores of the lugs at opposite ends of the boss.

1,916,396. AUTOMATIC LOCK FOR RECORD BOOK METAL. PAUL O. UNGER, Chicago, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a Corporation of Massachusetts. Filed Dec. 10, 1930. Serial No. 501,185. 7 Claims. (Cl. 129—24.)



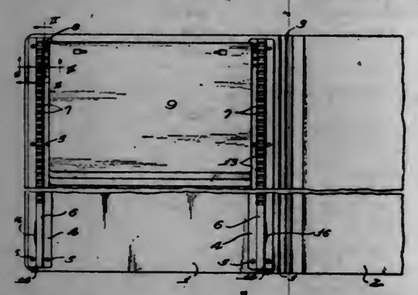
6. In a record binder having a pintle slide, a member shiftable into locking engagement with said slide in its operative position, key-controlled means for actuating said member for unlocking said slide, means for automatically retracting said slide when the same is unlocked, and means for automatically actuating said member for locking said slide when the latter is shifted to its operative position.

1,916,397. CARD INDEX FILE. PAUL O. UNGER, Chicago, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a Corporation of Massachusetts. Filed Apr. 24, 1931. Serial No. 532,414. 6 Claims. (Cl. 45—2.)



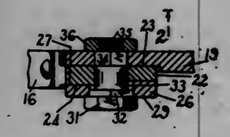
1. In a card index cabinet having side walls, channel shaped guide members secured to the side walls, the guide members on opposite sides of said cabinet having inwardly directed flanges and a partition member secured to said flanges.

1,916,398. VISIBLE INDEX DEVICE. PAUL O. UNGER, Chicago, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a Corporation of Massachusetts. Filed Feb. 27, 1932. Serial No. 595,465. 5 Claims. (Cl. 129—16.)



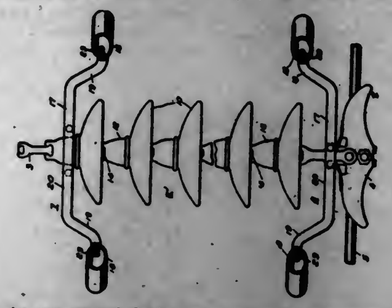
4. In a visible index, a base, a pair of spaced members having compartments adapted for receiving the ends of card holders, a locking slide mounted in one member, and yielding means between said slide and a portion of said member for yieldingly holding said slide to said member in a predetermined position.

1,916,399. DOOR HOLDER. HENRY G. VOIGHT, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn. Filed Jan. 7, 1932. Serial No. 585,321. 2 Claims. (Cl. 292—263.)



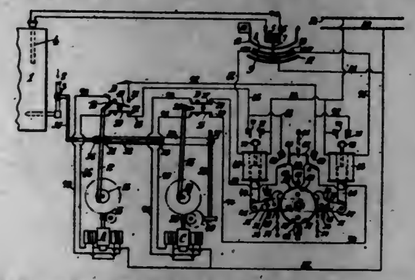
1. A door holder comprising an arm having a head thereon provided with a substantially flat face, a washer non-rotatably secured to said arm and spaced from the flat face of the head thereof, said washer having a spiral surface facing said head, a second arm pivotally secured to the first and having a head lying between the washer and the head of the first arm, said last-named head having a flat face adjacent the flat face of the head of the first arm, and a spiral face cooperating with the spiral face of the washer and said arms being connected to a door and door frame respectively whereby opening of the door will effect frictional engagement of the heads on the arms.

1,916,400. ARC CONTROL DEVICE. NILS A. WAHLBERG, Derry, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 22, 1928. Serial No. 301,289. 5 Claims. (Cl. 173—318.)



1. An arc-control device comprising an element of substantially loop-shape embodying spaced perimetral portions of substantially the same cross-sectional area throughout, said portions having electrostatic-field-control surfaces in substantially the same plane at right angles to the axis of the loop, and perimetral portions of smaller cross-sectional areas between said first perimental portions in offset relation to the plane of said surfaces whereby said first perimetral portions are caused to initially receive the arc.

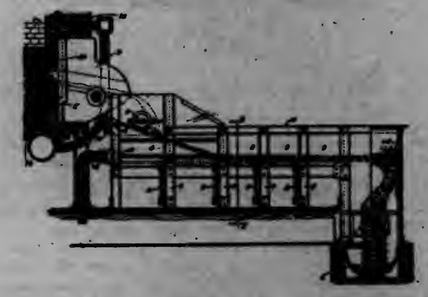
1,916,401. CONTROL SYSTEM AND APPARATUS. CHRISTIAN WILHJELM and GUSTAV H. JOHANSON, Philadelphia, Pa., assignors, by direct and mesne assignments, to Christian Wilhjelm, Philadelphia, Pa., as trustee. Filed Mar. 27, 1928. Serial No. 265,171. 3 Claims. (Cl. 236—15.)



1. In combination with a furnace and a valve for controlling the fuel supply thereto, an electric circuit including a reversible motor for operating the valve, a timing device for controlling the operations of the motor, means for closing said circuit periodically to establish a circuit to the motor through the said timing device to cause said valve to be operated in immediate response to temperature changes within the furnace, means in said timing device for automatically breaking the motor circuit after the valve has been operated and other means in said timing device for automatically establishing another operating circuit through the motor after a predetermined period of time.

1,916,402. METHOD AND APPARATUS FOR HANDLING MOLTEN MATERIALS. FRANK B. ALLEN, Lower Merion Township, Montgomery County, Pa., assignor, by mesne assignments, to The Allen-Sherman-Hoff Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 17, 1927. Serial No. 220,084. 10 Claims. (Cl. 83—91.)

1. The method of handling incombustible residues of combustion including molten material which comprises collecting such materials during a considerable period of combustion, periodically withdrawing such collected materials and permitting them to fall freely in a substantially continuous or unbroken stream, impinging a jet of liquid under pressure against the said stream thereby widening laterally and thinning the stream and breaking up the molten material into globules, directing a second jet of liquid under pressure into said first named jet, causing the material to strike an abutment and then receiving said material on a rapidly moving liquid jet conveyor thereby further cooling and conducting the material to a place of disposal.

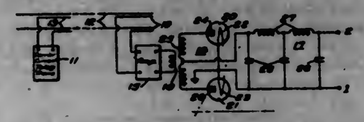


2. Apparatus for handling molten residues resulting from the combustion of fuel which comprises in combination, means for collecting such material and maintaining it in a molten condition, means for withdrawing periodically such molten material in a stream, means for discharging liquid under pressure against a stream of the molten material in a manner to divide the stream of material into globules and threads in a partly cooled condition, means including a second high pressure liquid stream directed into said first named liquid stream and an abutment for further cooling and breaking up the said partly cooled material into a finely divided condition, and means for conveying said material to a place of final disposal including a swiftly moving fluid conveyor.

1,916,403. TOOTH PASTE. FREDERICK C. ATKINSON, Indianapolis, Ind., assignor to John G. Praed. Filed Nov. 11, 1931. Serial No. 574,866. 7 Claims. (Cl. 167—93.)

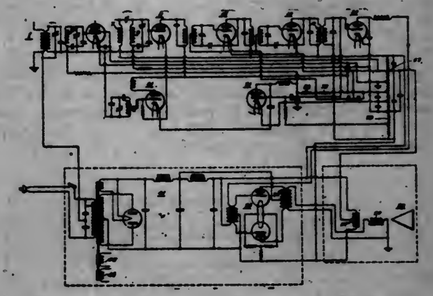
1. A dentifrice comprising a paste including a polishing agent which normally reacts with terpenes, a natural oil of citrus fruit, and a binder, the natural trepenes having been substantially eliminated from the oil.

1,916,404. TRANSMITTING SYSTEM. JAMES P. BARTON, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 18, 1929. Serial No. 371,782. 10 Claims. (Cl. 250—8.)



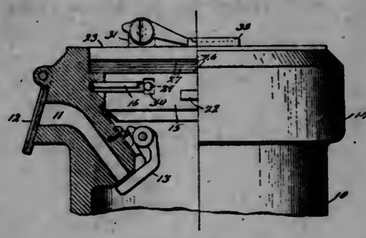
1. Electrical apparatus comprising means for transmitting electrical energy only when said energy reaches a predetermined magnitude, a second means for transmitting electrical energy only when said energy reaches a predetermined magnitude and means for so electrically connecting said first means and said second means that, when the electrical output of one of said means is a maximum, the electrical output of the other of said means is a minimum.

1,916,405. AMPLIFIER. GEORGE L. BEERS, Merchantville, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 18, 1930. Serial No. 468,876. 5 Claims. (Cl. 250—27.)



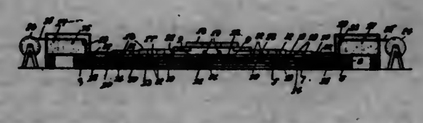
1. In combination, an apparatus comprising a plurality of electron discharge devices and a source of potential for said devices, certain of said devices being connected to derive potentials from one portion of said source and others of said devices being connected to obtain potentials from a separate portion of said source, an impedance coil in shunt with certain of said devices, said impedance comprising an element of a loud speaker device.

1,916,406. DOOR FOR CASH PROTECTORS. ERNEST E. BELL, Hinsdale, Ill., assignor to The Cash Protector Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 27, 1928. Serial No. 302,178. 14 Claims. (Cl. 109—1.)



1. The combination with a safe, of a door body arranged to interlock with the body of the safe, said door body having a chambered interior for the reception of a lock, a cover for the chamber of the door body, interlocking means for securing the cover to the door body, and laminated plates secured between the body and the cover by said interlocking means.

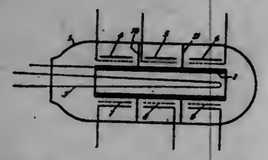
1,916,407. RECUPERATIVE AND REGENERATIVE HEAT TREATMENT OF METALS. ARTHUR E. BELLIS, Branford, Conn. Filed Oct. 13, 1930. Serial No. 488,263. 2 Claims. (Cl. 148—15.)



1. A method of heat treating metal wire or strip material which consists in continuously moving the material through a preheating and heat absorbing liquid bath di-

rectly into and through a relatively high temperature liquid bath superimposed upon a part of said preheating bath and directly from the latter into and through the said preheating and heat absorbing bath, whereby heat is absorbed by the material from the latter bath to maintain said preheating and heat absorbing bath at a substantially constant temperature relative to the high temperature bath.

1,916,408. ELECTRIC DISCHARGE TUBE. CORNELIS BOL, Eindhoven, Netherlands, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Feb. 18, 1928, Serial No. 255,211, and in the Netherlands Apr. 13, 1927. 2 Claims. (Cl. 250—27.5.)



2. An electron discharge tube comprising an envelope having mounted therein a single equipotential cathode, a plurality of sets of electrodes arranged end to end and spaced longitudinally along the cathode, each set comprising cylindrical input and output electrodes and each set disposed coaxially of said cathode to surround different and distinct lengths of said cathode, and shielding disks between adjacent sets disposed transversely to the cathode.

1,916,409. APPARATUS PROVIDING PROGRESSIVE LIGHTING AND EXTINCTION OF ARTICLES SUCH AS LETTERS, WORDS, PHRASES, PICTURES, ETC. FERNAND JOSEPH BOURGROIS and JEAN JACQUES PARAYRE, Perpignan, France. Filed Apr. 14, 1932, Serial No. 605,322, and in France Apr. 16, 1931. 4 Claims. (Cl. 40—52.)

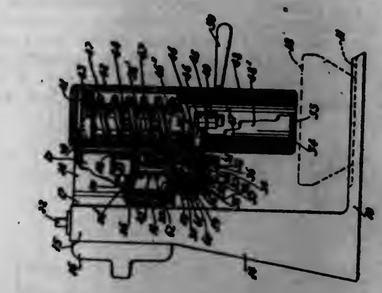


1. A device of the class described comprising in combination the article to be illuminated, a source of light for projecting its rays on the article, a shutter interposed between the source of light and article, and means for slowly operating the shutter in one direction to permit illumination of the article and rapidly in a reverse direction to prevent illumination of the article.

1,916,410. ALLOY. PORTER H. BRACE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 22, 1928. Serial No. 301,419. 7 Claims. (Cl. 250—27.5.)

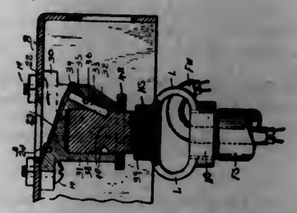
1. The process of producing an alloy between a metal having a comparatively high melting point and a metal that is volatile at a temperature below 900° C. which comprises mixing the first named metal in a powered state with a powdered compound of the volatile metal, pressing the mixture into the form of briquettes, heating the briquettes in a vacuum to decompose the compound of the volatile metal, and then heating the mixture to a sufficient temperature to cause the volatile metal to diffuse into the first named metal.

1,916,411. DEVICE FOR FORMING NOODLES, SPAGHETTI, AND THE LIKE. ANTHONY BIZZARRI, New York, N. Y. Filed Dec. 30, 1930. Serial No. 505,474. 10 Claims. (Cl. 107—14.)



1. In a device for manufacturing spaghetti and the like, a hydraulic cylinder, a hydraulic piston within said hydraulic cylinder, a cylinder head closing one end of said hydraulic cylinder, a piston rod carrying said hydraulic piston adjacent one end thereof and passing through said cylinder head and carrying a forming piston adjacent the other end thereof, and a forming cylinder adjacent said hydraulic cylinder for receiving said forming piston, said forming cylinder having at least one portion of at least one of the walls thereof provided with forming perforations, said forming cylinder being hingedly secured to said hydraulic cylinder to permit the same to be swung clear of said hydraulic cylinder charged with paste or the like and thereafter closed into operative position.

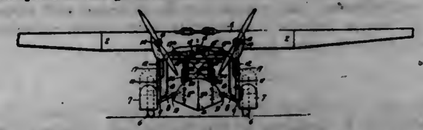
1,916,412. FIXTURE SUPPORT. STEPHEN N. BUCHANAN, Elizabeth, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a Corporation of New Jersey. Filed Feb. 29, 1928. Serial No. 257,904. 5 Claims. (Cl. 240—85.)



1. A fixture support comprising, in combination, a hollow fixture stud and means to secure same to an outlet box, a hickey carrying a slip-in head which plugs into the fixture stud, means for locking the head in the stud when plugged together, and means carried by one of the parts of the support and exerting a force against the stud tending to withdraw the head from the stud and serving to accentuate the action of the locking means.

1,916,413. AMPHIBIAN AIRCRAFT. VINCENT J. BURNELLI, New York, N. Y., assignor, by mesne assignments, to Burnelli Aircraft, Ltd., Dover, Del., a Corporation of Delaware. Filed July 27, 1929. Serial No. 381,488. 5 Claims. (Cl. 244—2.)

1. The combination with an airplane having a fuselage and a pontoon connected therewith, of landing gear disposed at opposite sides of said pontoon and movable between positions below and above the pontoon bottom, said pontoon composed of forward and rear parts in hinged relation, and means for raising and lowering said rear part of the pontoon.



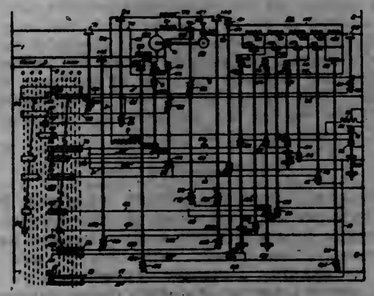
5. The combination in an airplane having a body and a pontoon connected therewith, of floats spaced respectively from the opposite sides of said pontoon, traction wheels journalled and partially housed in said floats, pivotal supporting means between said floats and pontoon that permit said floats to be moved bodily up and down in a substantially vertical plane, and actuating means, under the pilot's control, for moving said floats.

1,916,414. DRILL JIG. EDWIN CHAPMAN, Catasauqua, Pa., assignor to Fuller Lehigh Company, Fullerton, Pa., a Corporation of Delaware. Filed July 29, 1930. Serial No. 471,440. 1 Claim. (Cl. 77—62.)



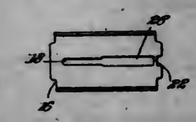
Apparatus for the removal of nipples of circular cross-section expanded into tube seats comprising a drill jig having a cylindrical body portion adapted to be inserted into the free end of the nipple and a head adapted to abut said free end, one or more drill openings in said head, one or more longitudinal grooves in the peripheral surface of said body portion in axial alignment with a corresponding drill opening, each said drill opening being arranged within the outer periphery of the nipple, whereby said drill opening and corresponding groove will guide a drill inserted through said drill opening in a drilling operation forming a longitudinal groove in the inner peripheral wall of the nipple but without removing the metal of said tube seat, and expansible means adjustably operative from the head end of said jig and within said body portion and adapted to frictionally engage the inner peripheral wall of said nipple for centering and holding said jig in position in said nipple.

1,916,415. CRANE HOIST CONTROL. WILLARD G. COOK, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 20, 1930. Serial No. 453,928. 17 Claims. (Cl. 172—179.)



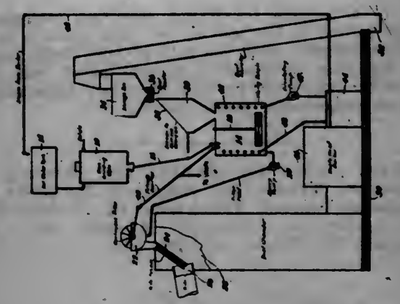
1. The combination with an electric motor having a field-magnet winding, a dynamic-braking circuit cooperating with said motor, for producing a dynamic-braking effect in the motor, means for gradually and proportionally decreasing the ohmic resistance in the dynamic-braking circuit and the field-magnet winding, respectively.

1,916,416. METHOD OF MANUFACTURING SAFETY RAZOR BLADES. JAMES E. CONNOLLY, Baltimore, Md. Filed Jan. 8, 1932. Serial No. 585,590. 3 Claims. (Cl. 76—104.)



1. The method of manufacturing a metallic razor blade consisting in forming a blade in an untempered condition substantially into the final shape with an attaching slot having a stabilising fin across the slot adjacent an end, in thereafter hardening the blade, and in finally removing said fin.

1,916,417. APPARATUS AND PROCESS FOR MAKING CEMENT. DONALD C. COULSON, Chicago, Ill., assignor, by mesne assignments, to Oliver United Filters, Inc., San Francisco, Calif., a Corporation of Nevada. Filed June 29, 1928. Serial No. 289,297. 9 Claims. (Cl. 222—3.)



1. In a process for making cement by the wet process, with the aid of a continuous filter the method of increasing the filtering capacity by adding flue dust to the slurry and subsequently passing said slurry through a continuous filter.

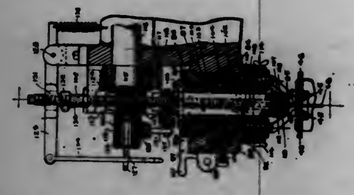
3. The combination in a wet grinding cement mill having a continuous filter for reducing the moisture content of the ground slurry before it is fed into the furnace, of a dust collector for recovering flue dust from the kiln, a dust feeder to introduce said flue dust into the slurry, and a conduit and pump for passing the slurry and flue dust to a continuous filter for dewatering.

1,916,418. CIRCUIT BREAKER. ALAN C. CRAGO, deceased, Pittsburgh, Pa., by Samuel D. Crago, administrator, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 29, 1927. Serial No. 216,032. 14 Claims. (Cl. 200—144.)

12. In combination, means to establish an arc, deionizing means comprising conductors transverse to the path

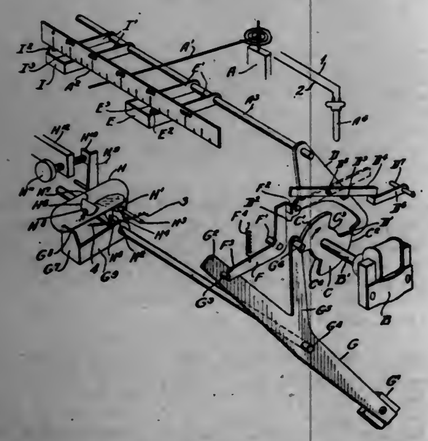
of said arc, means to impel the arc towards said conductors, the spacing of the conductors nearest said arc establishing means being greater than that of the conductors farthest therefrom.

1,916,419. CUTTING MACHINE. CHARLES B. GRAY, Millbourne, Pa. Filed June 4, 1929. Serial No. 368,217. 21 Claims. (Cl. 164—86.)



4. In a machine for cutting sheet-form material, a turret located to one side of the sheet plane, a punch ram reciprocable along the axis of said turret, means for imparting reciprocation to said punch ram, and means for axially shifting said punch ram independently of said reciprocating means therefor.

1,916,420. , CONTROL APPARATUS. THOMAS R. HARRISON, Wyncote, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 2, 1929. Serial No. 404,280. 12 Claims. (Cl. 200—56.)



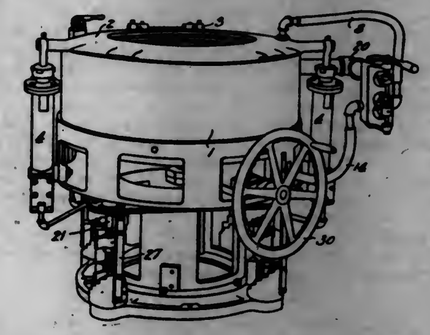
1. Automatic control apparatus comprising in combination an element moving in response to changes in value of a condition of the device controlled, a switch for controlling an operating circuit, mechanism for periodically actuating said switch to effect a circuit making or breaking control action depending on the position of said element, and means for maintaining said circuit closed for a definite period after said switch actuating mechanism becomes ineffective.

1,916,421. RUBBER CEMENT. EARDLEY HAZELL, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed July 25, 1930. Serial No. 470,773. 21 Claims. (Cl. 87—17.)

16. A low viscosity rubber cement containing ethyl alcohol, the rubber thereof being in a substantially normal state of aggregation and in solution in a substantial proportion of naphtha, said cement containing in excess of 50% rubber.

21. A process of preparing a low viscosity substantially non-aqueous rubber cement which comprises plasticising rubber, incorporating therewith with mixing a "desolvating" agent and an organic solvent-soluble soap until the rubber reaches a condition whereby it will readily disperse in a rubber solvent, then adding with mixing a rubber solvent until the mass attains a consistency which allows it to flow freely and spread smoothly.

1,916,422. TIRE SHAPING MACHINE. ALLEN L. HESTON, Columbiana, Ohio, assignor to United States Rubber Company, New York, N. Y., a Corporation of New Jersey. Filed May 31, 1929. Serial No. 367,503. 16 Claims. (Cl. 154—10.)

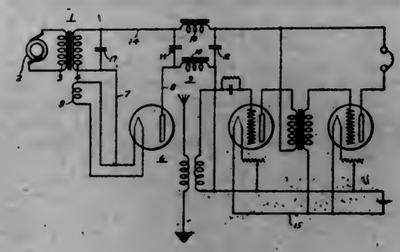


1. A vacuum box having end walls provided with apertures adapted to receive a pulley band, said end walls being mounted for relative movement parallel to the axis of the apertures, and separate means for limiting the maximum and minimum distances of separation of the end walls, said limiting means being simultaneously adjustable for varying the maximum and minimum distances of separation of the end walls.

1,916,423. POLYMERIZATION PRODUCT FROM DIVINYL ETHER AND RELATED COMPOUNDS AND PROCESS OF PRODUCING SAME. HAROLD HIBBERT, Montreal, Quebec, Canada. Filed July 27, 1929. Serial No. 381,676. 4 Claims. (Cl. 260—2.)

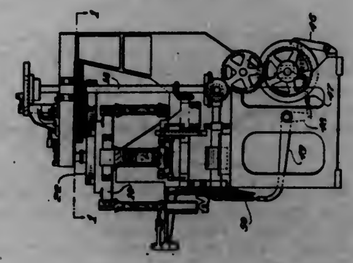
1. A product consisting of a highly viscous, polymerized, transparent, resinous material, produced by subjecting divinyl ether to the action of heat.

1,916,424. FILTER SYSTEM. CHARLES WILLIAM HORN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 28, 1925. Serial No. 4,277. 6 Claims. (Cl. 175—363.)



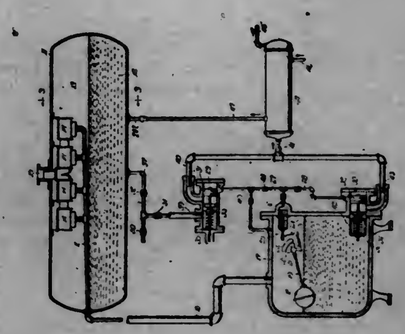
1. An electrical rectifier system comprising a source of variable energy, a power rectifier connected thereto, a load line connected to the rectifier, a condenser connected across said line adjacent to said rectifier and a condenser connected across said source.

1,916,425. PACKAGING MACHINE. STANLEY R. HOWARD, East Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a Corporation of Massachusetts. Filed May 17, 1928. Serial No. 278,564. 12 Claims. (Cl. 93—44.)



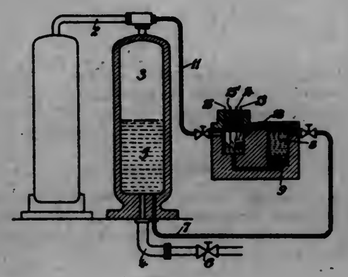
1. In a bottom sealing machine, in combination, a plurality of intermittently rotatable vertically arranged carton supporting members, means for intermittently rotating the carton supporting members, and automatically operating means for positioning the cartons upon the supporting members, including a vertically arranged stationary pocket, a pusher member for inserting successive cartons in the pocket, said pusher member and pocket cooperating to effect the opening of the carton into a rectangular condition in the pocket, and vertically movable means engaging the ends of the bottom flaps for moving the carton from said pocket onto a carton supporting member, said means having provision for permitting the initiation of the rotation of said supporting members immediately after a carton has reached an operative position upon the supporting member.

1,916,426. METHOD AND MEANS OF BOILER CONTROL. WALTER J. HUGHES and WALTER H. GREEN, Chicago, Ill., assignors to General Zeolite Company, Chicago, Ill., a Corporation of Illinois. Filed May 2, 1927. Serial No. 188,103. 22 Claims. (Cl. 122—1.)



1. In a boiler control apparatus, a steam purifier, a steam trap, means for conducting collected moisture from the steam purifier to the steam trap, a blow-down for the boiler actuated by discharge of said trap and an adjusting means for regulating the amount of the blow-down for each discharge of said trap.

1,916,427. PRESSURE RESPONSIVE ELECTRIC SWITCH. FRIEDRICH WILHELM KÖAVER, Duisberg, Germany, assignor to Hydraulik Gesellschaft mit beschränkter Haftung, Duisburg, Germany. Filed Sept. 5, 1931, Serial No. 561,426, and in Germany May 21, 1929. 2 Claims. (Cl. 200—81.)



1. In a receptacle for holding a column of water, a reservoir containing air at a pressure greater than atmospheric pressure, for holding water and air under pressure, means for supplying water to and discharging the water from said receptacle, the said receptacle having an air space above the column of water therein communicating with said reservoir, a holder in open communication with and containing a movable column of water supplied from and under the pressure of the body of water in the receptacle and also containing a movable column of mercury in contact with and subjected on one side to the pressure of the water column, a connection between the reservoir and the holder for supplying air to the receptacle and maintaining the column of mercury therein under air pressure counteracting the air

pressure on the column of water in the receptacle, whereby the column of mercury is made responsive to variations in the weight of and adapted to rise and fall with the body of the water in the receptacle, and electric circuit contactors terminating at different levels and adapted to be engaged by the mercury on the rise and fall of the latter.

1,916,428. MEDICAL SYRINGE. NIKOLAUS KOVACS, Vienna, Austria. Filed Jan. 14, 1931, Serial No. 508,784, and in Austria Jan. 15, 1930. 4 Claims. (Cl. 128—216.)

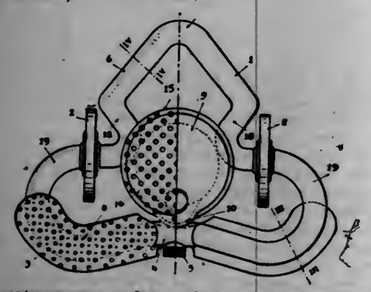


2. A syringe comprising two rigid bodies, one of the said bodies being adapted as a container and the other of the said bodies as a cannula, an elastic tube connecting said bodies, means for securing the elastic tube to said bodies, a rigid member, the diameter of which is greater than the internal diameter of the tube, inserted in the tube, and a rigid tube, of less diameter than the elastic tube, disposed within the tube and connected with one of the said rigid bodies at one of its ends and with the rigid member at its other end, and adapted to be opened by breaking, the wall of the elastic tube being adapted to be drawn away from the rigid member to allow a passage.

1,916,429. METHOD OF PRODUCING MIXED FERTILIZERS. MARKUS LARSSON, Berlin, Germany, assignor to Kunstdünger-Patent-Verwertungs-Aktiengesellschaft, Glarus, Switzerland. Filed July 11, 1930, Serial No. 467,232, and in Sweden July 11, 1929. 3 Claims. (Cl. 71—7.)

1. Method of producing mixed fertilizers, which comprises dissolving phosphate rock separately in nitric acid and in sulphuric acid, combining the reaction products, and adding potassium sulphate to precipitate the lime dissolved.

1,916,430. WATER PRESSURE CLEANER. EMILE LARUE, Lausanne, Switzerland. Filed May 21, 1932, Serial No. 612,776, and in Germany May 21, 1931. 2 Claims. (Cl. 15—128.)

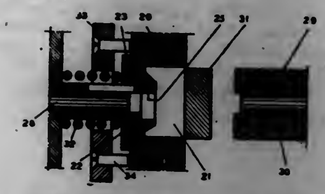


1. A water pressure cleaner for connection to a water supply conduit comprising a metal tubular frame, rollers supporting said frame on the ground, the tube constituting said frame being bent in a horizontal plane into triangular form, the front of said frame being arrow-shaped, a union for connecting ends of said tubular frame, a nipple carried by said union for coupling said tubular frame with means for supplying water under pressure, at the front and sides for projection of water under pressure, the water being projected in an oblique forward movement of said frame and towards the ground, brushes carried by the rear part of said frame, and a detachable central spray carried by said frame centrally thereof.

1,916,431. PROCESS OF LEACHING PHOSPHATE ROCK. MARKUS LARSSON, Berlin, Germany, assignor to Kunstdünger-Patent-Verwertungs-Aktiengesellschaft, Glarus, Switzerland. Filed Oct. 1, 1930, Serial No. 485,827, and in Sweden Oct. 5, 1929. 4 Claims. (Cl. 23—165.)

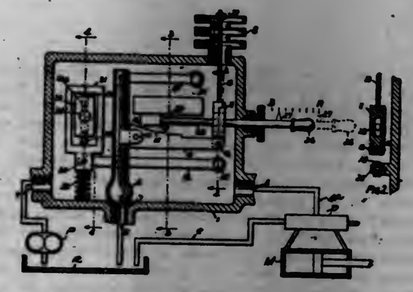
1. In a method of treating phosphate rock in which the phosphate rock is leached with an acid solution containing an excess of SO_4—ions as compared with the lime content of the phosphate rock treated and the calcium sulphate formed is brought to crystallize successively as semihydrate and as dihydrate in the solution produced, the step which consists in performing the recrystallization in presence of said excess of SO_4—ions.

1,916,432. APPARATUS FOR MANUFACTURING FORGINGS. EUGENE MERNIER, Braux, France, assignor to International Safety Lock Nut Corporation, a Corporation of Delaware. Filed Jan. 28, 1930, Serial No. 424,070, and in Great Britain July 6, 1929. 10 Claims. (Cl. 10—72.)



1. In a forging machine, the combination of a matrix, a tubular die adapted to enter one end of said matrix, a plunger disposed within said die, a shaping die resiliently mounted in the opposite end of said matrix, a tubular ejector co-operating with said shaping die in the shaping operation, and a punch disposed within said ejector.

1,916,433. SPEED CONTROL VALVE. WOLFGANG CARL MULLER, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 15, 1928. Serial No. 277,972. 13 Claims. (Cl. 103—42.)



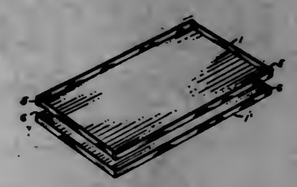
1. A hydraulic valve for controlling the speed of a hydraulic machine comprising a casing provided with an inlet port, an outlet port, and a by-pass port, with means for controlling the opening of said by-pass port inversely in proportion to the increase of pressure in said casing, whereby a constant flow of liquid through said by-pass port will be provided, said means comprising an expansion chamber with mechanical connections therefrom for controlling the opening of said by-pass port inversely in proportion to the pressure within said casing, and a hydraulic shock absorbing device within said casing for preventing vibratory changes in the opening in said by-pass port, said means provided with adjusting devices actuable exteriorally of said casing.

1,916,434. INDUCTOR FOR FURNACES AND THE LIKE. EDWIN FITCH NORTHRUP, Princeton, N. J., assignor to Ajax Electrothermic Corporation, Ajax Park, N. J., a Corporation of New Jersey. Filed July 17, 1930. Serial No. 468,551. 2 Claims. (Cl. 219—47.)



1. In an electric induction furnace of large size, a helical inductor coil consisting of flattened flatwound tubing and connections for supplying liquid cooling medium to the interior of the tubing under pressure.

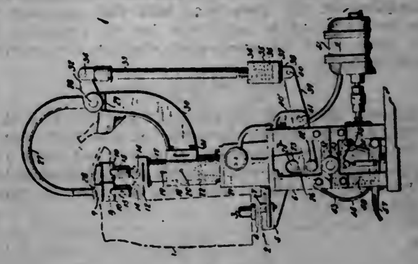
1,916,435. MOLDED TABLE COVER. ERNEST H. OTT, Pittsburgh, and Benjamin J. Gudge, East Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 14, 1930. Serial No. 452,234. 10 Claims. (Cl. 154—2.)



7. A rectangular table cover, formed of molded laminated sheet material impregnated with a heat hardened binder having a continuous upper surface comprising a substantially flat central portion, an upwardly rolled rim surrounding said central portion for preventing articles being displaced therefrom and downwardly extending flanges to enable the cover to be applied to a table, the corners of said table being provided with reinforcing means.

1,916,436. LASTING MACHINE. ERNEST L. PATTEN, New Haven, Conn., assignor to Boston Rubber Shoe Company, Malden, Mass., a Corporation of Massachusetts. Filed June 12, 1929. Serial No. 370,190. 2 Claims. (Cl. 12—7.)

1. In a footwear lasting machine in combination, means for rigidly supporting a last, a plurality of members mounted above the vamp and toe portions of the last and for independent movement and adapted to press and shape an assembly of elements of an article of footwear about the vamp and toe portion of the last, resilient means co-operating with the members resiliently to maintain said



members in contact with a substantial area of the assembly, and means acting on the sole of the last to press the last against the assembly of elements.

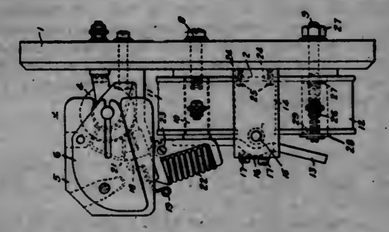
1,916,437. DISTILLATE PETROLEUM PRODUCTS AND METHOD OF TREATING THE SAME. JAMES B. RATHER and LESLIE C. BEARD, Jr., Brooklyn, and ORLAND M. REIFF, Jackson Heights, N. Y., assignors to Socony-Vacuum Corporation, New York, N. Y., a Corporation of New York. Filed June 20, 1930. Serial No. 462,694. 8 Claims. (Cl. 44—9.)

1. A low boiling light colored distillate petroleum product of the class of gasoline or kerosene which normally tends to become discolored or to form gummy material under normal commercial conditions of storage and handling, having added thereto nicotine in quantity sufficient substantially to delay the aforesaid discoloration or gum formation.

1,916,438. DISTILLATE PETROLEUM PRODUCTS AND METHOD OF TREATING THE SAME. JAMES B. RATHER and LESLIE C. BEARD, Jr., Brooklyn, and ORLAND M. REIFF, Jackson Heights, N. Y., assignors to Socony-Vacuum Corporation, New York, N. Y., a Corporation of New York. Filed June 21, 1930. Serial No. 462,928. 11 Claims. (Cl. 44—9.)

1. A low boiling light colored distillate petroleum product of the class of gasoline or kerosene which normally tends to become discolored or to form gummy material under normal commercial conditions of storage and handling, having added thereto thiocarbanilid in quantity sufficient substantially to delay the aforesaid discoloration or gum formation.

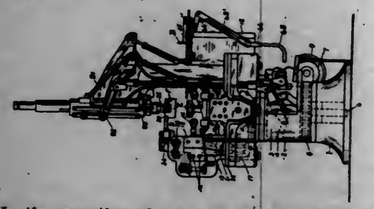
1,916,439. CONTROL RELAY. ERNEST K. READ, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 4, 1929. Serial No. 337,206. 12 Claims. (Cl. 175—294.)



1. An E-shaped magnetic core member having a winding associated with each outer leg thereof, an armature pivoted on the central leg, means for biasing the armature out

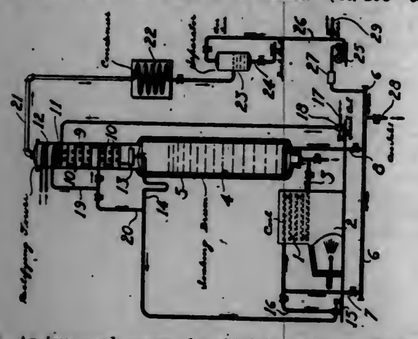
of engagement with both outer legs when the windings on said outer legs are deenergized and means for energizing said windings simultaneously, the member of turns of said windings, the amount of current flow therein, and the dimensions of said core being such that one outer leg has greater magnetic attraction for the armature than the other outer leg when said windings are energized simultaneously.

1,916,440. METHOD OF AND APPARATUS FOR MAKING BOXES. ERNEST G. RIDER and WALTER T. BAILEY, Philadelphia, Pa., assignors to Stokes and Smith Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 22, 1930. Serial No. 490,400. 30 Claims. (Cl. 93—54.)



1. In the operation of a box machine having form-block structure, the method of feeding a blank adapted to form at least the bottom and a pair of opposite walls of a box, which comprises bending one of said walls, and moving the blank substantially at right-angles to the form block structure until the bent wall engages the corresponding face of the form block structure.

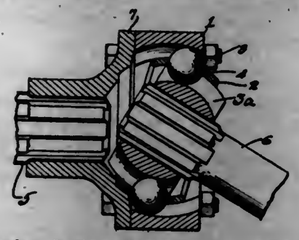
1,916,441. PROCESS FOR PRODUCING HYDROCARBON DISTILLATES. ROBERT P. RUSSELL, Baton Rouge, La., assignor to Standard-I. G. Company. Filed Jan. 7, 1929. Serial No. 330,861. 8 Claims. (Cl. 196—62.)



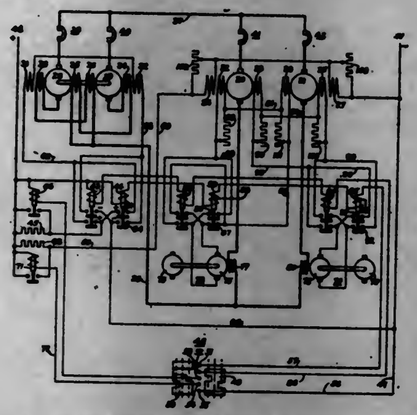
1. An improved process for obtaining valuable distillate from heavy carbonaceous matter, which comprises maintaining a body of such material at a decomposition temperature while under pressure in excess of 25 atmospheres, continuously passing a mixture of the said material and a gas rich in free hydrogen through a heating zone into said body, removing vapor therefrom, partially condensing the vapor under rectifying conditions at a pressure in excess of 25 atmospheres and separately condensing a part of the remaining vapor.

1,916,442. UNIVERSAL JOINT. ALFRED H. RZEPPA, Detroit, Mich. Filed Aug. 21, 1929. Serial No. 387,516. 2 Claims. (Cl. 64—91.)

1. A universal joint consisting of a plurality of integral members having mutual contacting surfaces that are zones of concentric spheres with their edges in zonal planes upon opposite sides of the common center and at a distance apart approximately that required for the proper engagement and the angular motion of the shafts to be united by said joint, the outer and inner members having ball grooves across their adjacent zonal surfaces in arcs of circles with said common center and an intermediate member forming a ball cage, said member having outer and inner zonal surfaces shaped to and contacting respectively with the inner surface of the outer member and the outer surface of the inner member, said intermediate member having diametrically opposite apertures therethrough, the shortest distance between the outer surface of said intermediate member at the edges of diametrically opposed apertures being less than the distance in the zonal plane between two diametrically opposite teeth of the outer member, to permit the insertion of the intermediate member at right angles into the outer member.



1,916,443. POWER TRANSMISSION SYSTEM. WILLIAM B. SHIRK, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 18, 1929. Serial No. 371,760. 16 Claims. (Cl. 80—54.)



1. In a power-transmission system, the combination with a rolling mill and a plurality of motors individually connected to the rolls of the mill, of a source of power for the motors, said motors being connected in parallel-circuit relation to the power source, each motor having a separately excited main field winding and a plurality of series-compounding field windings, means for controlling the excitation of the main field windings to determine the relative speeds of the motors, an exciter for each motor for supplying exciting current to the series-compounding fields in accordance with the load on the different motors, and means for connecting one series-compounding field winding of each motor in series-circuit relation to each exciter, said series-compounding field windings of each motor being connected for establishing a field flux in opposite directions, thereby to provide a resultant flux to vary the effectiveness of the main field flux in response to an unbalance of the system.

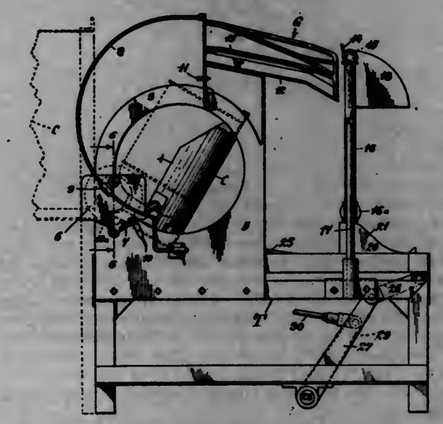
8. In a power system, in combination, a plurality of motors provided with main, cumulative compounding and differential-compounding-field windings, exciter means responsive to the load currents in the motors for maintaining a predetermined division of load between the motors, said means being disposed to vary the exciting current flowing in the compounding field windings of the motors in accordance with their loads, and manually-operable means for varying the excitation currents of the compounding-field windings to change the resultant flux produced by the main and compounding-field windings, in accordance with the desired speed, thereby to cause the motors to maintain a constant speed regardless of the load carried.

1,916,444. MULTIMOTORED AMPHIBIAN. IGOR SIKORSKY, College Point, N. Y., assignor to Sikorsky Aviation Corporation, Wilmington, Del., a Corporation of Delaware. Filed Aug. 2, 1929. Serial No. 382,980. 12 Claims. (Cl. 244—2.)



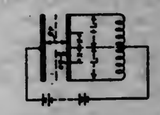
1. In a multimotor amphibian, the combination comprising a wing or supporting surface, a body boat structure beneath and connected to said supporting surface, a pilot's compartment in the forward portion of said body boat and extending ahead of the wing, retractible landing gear operated by fluid hingedly mounted on said body boat, a plurality of power plants attached to said wing driving tractor propellers, control means in said pilot's compartment for controlling said power plants, and further control means in said pilot's compartment for controlling by fluid moving through connecting conduits the position of said retractible landing gear above or below the bottom of said body boat structure.

1,916,445. CAN DELIVERY MECHANISM. CHARLES M. SPERAZZ, Buffalo, N. Y., assignor of one-half to John P. McKinley, Buffalo, N. Y. Filed Mar. 6, 1929. Serial No. 344,824. 29 Claims. (Cl. 29—34.)



1. In a delivery mechanism of the class described, the combination of a cradle, curved trackways, means connecting said cradle to said trackways for movement along the same, and means for moving said cradle, said trackways being curved so as to turn the cradle from one position to a substantially inverted position and said cradle being adapted to receive a can in said first mentioned position and to discharge said can in said inverted position.

1,916,446. MEANS FOR MINIMIZING HARMONICS IN RADIO RECEIVER OUTPUT CIRCUITS. LEE SUTHERLIN, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 10, 1928, Serial No. 311,530. Renewed May 18, 1933. 1 Claim. (Cl. 250—27.)

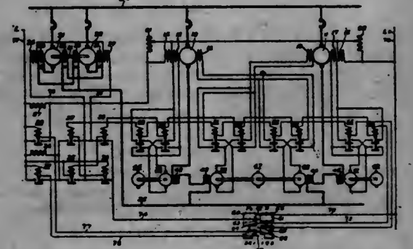


In a vacuum tube, the combination of a grid electrode, a plate electrode, and a V-shaped electron-emissive cathode filament, said cathode filament having such resistance, normal heating current, and distance separating its ends, that the following formula is fulfilled

$$e_p + \mu e_g = \sqrt{32M + \frac{8K}{L^2}}$$

where e_p is plate electrode operating voltage and e_g is grid electrode operating voltage, where M is the decrease of the plate current due to the magnetic effect arising when one volt is impressed between ends of the cathode filament, K is the decrease of plate current due to attraction of electron so the positive end of the cathode filament when one volt is impressed between ends thereof, and L is half the distance between the ends thereof.

1,916,447. POWER TRANSMISSION SYSTEM. HAROLD E. STOKES, Murrysville, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 22, 1929. Serial No. 372,843 21 Claims. (Cl. 172—239.)

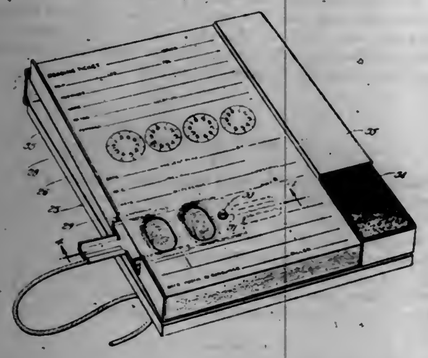


1. In a power system, in combination, a plurality of motors and generators, said motors being connected in parallel-circuit relation to said generators, each motor being provided with a main field winding and cumulative and differential compounding field windings, and exciter means responsive to the load on any one motor for establishing an unbalance in the field excitation of the compounding field windings of all the motors, thereby to correct for a load unbalance between the motors, caused by a variation in their relative speeds.

12. In an electric drive for rolling mills provided with a plurality of reducing rolls, in combination, a plurality of motors individually connected to the reducing rolls, a source of power for the motors, the motors being provided with separately-excited main field, cumulative and differential compounding field windings, means for controlling the relative excitation of the main field windings to establish a predetermined load ratio, a pair of exciters for each motor, one of each pair being connected to the cumulative compounding-field winding of its motor, the other to the differential compounding-field winding of another motor, said exciters being disposed to balance the excitation of the compounding-field windings of each motor when the load is dividing in said predetermined ratio

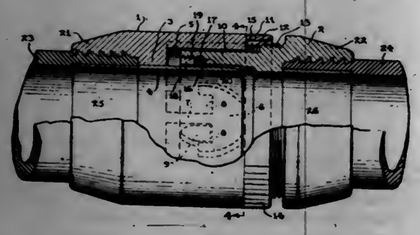
and to act in response to changes in motor-load currents, thereby to unbalance the excitation of the motors in proportion to the unbalance in load to correct the unbalanced load condition.

1,916,448. METER TAG IDENTIFICATION SEAL. FREDERICK B. THOMSON, Teaneck, N. J., and SEVERN D. STRONG, Brooklyn, N. Y., assignors to Engineering Products Corporation, Inc., New York, N. Y., a Corporation of New York. Filed June 23, 1932. Serial No. 618,868. 7 Claims. (Cl. 40—1.)



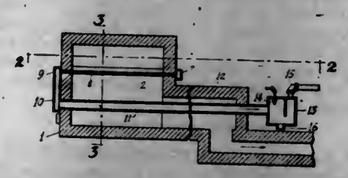
1. In combination, a holder, a record blank in the holder and having a cut away portion, a seal removably associated with the blank and means on the holder for positioning the seal in a predetermined relationship to the cut away portion of said blank.

1,916,449. HOSE AND PIPE COUPLING. JOHN JOSEPH TOMPKINS, Lakeland, Fla., assignor of one-half to Robert Eugene Smith, Lakeland, Fla. Filed Mar. 23, 1931. Serial No. 524,708. 3 Claims. (Cl. 285—175.)



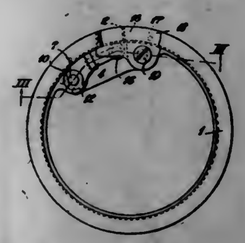
1. A coupling of the class described comprising a female member provided between its ends with an interior annular rib and having an inner wall extending outwardly from the said rib and spaced from the inner face of the outer portion of the female member to provide an intervening annular space, said inner wall extending to a point adjacent the plane of the outer end of the female member, a male member having a cylindrical portion extending into the said annular space, said male member being provided at its outer end with an interiorly arranged annular recess having a threaded portion, the male member being spaced from the said inner wall, a threaded metallic gland ring engaging the threads of the said recess, an elastic gasket clamped in the recess by the metallic gland and having a portion fitting against the said inner wall and arranged to be held against the said inner wall by the pressure of water or other liquid in the coupling.

1,916,450. OIL CONVERTER. CARY R. WAGNER and RODOLPHE STAHL, Chicago, Ill., assignors to Gyro Process Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 28, 1930. Serial No. 422,904. 2 Claims. (Cl. 196—116.)



2. In a converter for cracking hydrocarbon oils in the vapor phase, a heat-confining wall structure provided with a chamber, means for generating and supplying said chamber with highly heated furnace gases, a bank of tubes each of relatively restricted cross-sectional area arranged in the region of higher temperature of said chamber, means for passing vaporised oils in parallel multiple streams at high velocity through said tubes, whereby said vapors are rapidly heated to desired conversion temperatures, an outlet header into which the highly heated multiple streams of vapor are delivered following their discharge from said tubes, a single elongated tube arranged in the lower temperature region of said chamber and subject to the remaining heat of said furnace gases following the passage of the latter over said first named tubes, and a duct communicating with and extending laterally from said chamber and in which the tube of greater cross sectional area is positioned, whereby said latter tube possesses a length considerably greater than that of the heating chamber to procure prolonged contact with the heated furnace gases.

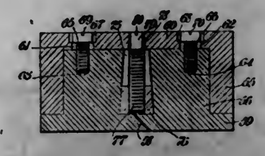
1,916,451. SEALING DEVICE. HENRY WATSON, Highwalls, Dinas Powys, Wales. Filed Mar. 26, 1931, Serial No. 525,543, and in Great Britain Nov. 10, 1930. 18 Claims. (Cl. 309—36.)



1. A packing ring for pistons having a split therein, comprising a bridge piece extending across the split, means permanently engaging the bridge piece with the material of the ring on one side of the split, adjustable means associated with the material of the ring on the other side of the split, adapted to enter into locking engagement with an adjacent portion of the bridge piece, and means adapted to be actuated to cause relative movement between the two ends of the ring forming the sides of the split and thus to adjust the peripheral dimension of the ring.

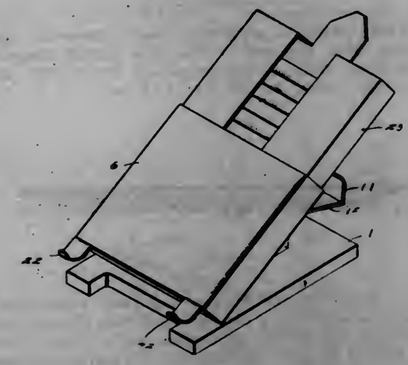
1,916,452. SEALING DEVICE. HENRY WATSON, Highwalls, Dinas Powys, Wales. Original application filed Mar. 26, 1931, Serial No. 525,543, and in Great Britain Nov. 10, 1930. Divided and this application filed Dec. 28, 1932. Serial No. 649,229. 12 Claims. (Cl. 309—36.)

1. A packing ring for pistons comprising an outer cylindrical member formed with a split, an inwardly projecting flange on the said member, an inner cylindrical member also formed with a split and engaging within the outer cylindrical member, the splits in each of the cylindrical members being located on opposite sides of the axis of the ring, means adapted to be actuated to cause relative movement between the two ends of the inner



cylindrical member forming the sides of the split therein and thus by altering the dimensions of the inner cylindrical member to cause corresponding alterations in the dimensions of the outer cylindrical member, and means adapted releasably to lock the flange on the outer cylindrical member with an adjacent part of the inner cylindrical member.

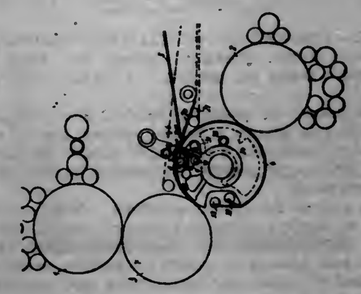
1,916,453. CIGARETTE DISPENSER. CHARLES E. WEBSTER, Ironwood, Mich. Filed Mar. 3, 1931. Serial No. 519,910. 3 Claims. (Cl. 312—77.)



1. A cigarette dispensing device comprising a flat rectangular receptacle, means for normally supporting the receptacle at an inclination, from the horizontal, the lower edge of the receptacle having an opening to permit a cigarette to roll therefrom by gravity, pivotal supporting means beneath the receptacle adjacent the upper edge thereof, a plate closure member fixedly arranged to cover the open lower end of the receptacle when the same is in normally inclined position, and means adapted to be secured in an adjusted position beneath the receptacle adjacent the upper edge thereof, for regulating the degree of oscillation thereof.

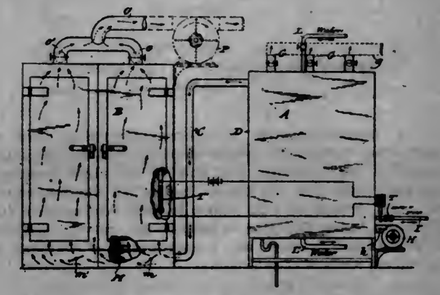
1,916,454. FOUR-CYLINDER SHEET-FED ROTARY OFFSET PRESS. OTTO WOHLRABE, Plauen, Germany. Filed Sept. 8, 1931, Serial No. 561,767, and in Germany Sept. 16, 1930. 6 Claims. (Cl. 101—142.)

1. In a sheet-fed four cylinder rotary off-set press, two offset cylinders, rubber blankets mounted on the said cylinders, guide bars associated with one of the said cylinders, a shaft for the said cylinder, grippers arranged in an approximately radially adjustable manner on one of the said cylinders, means for operating the grippers to maintain the sheets to be printed, with the cooperation of the said guide bars, out of contact with the rubber blanket of one of the said cylinders and to move inwardly



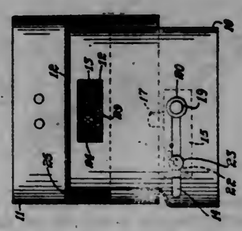
to bring the sheets into contact with the said blanket at the printing point only, a shaft carrying the said grippers, and two carriages for the said shaft.

1,916,455. HUMIDIFYING SYSTEM. ARCHIBALD F. WRIGHT, South Orange, N. J. Filed Feb. 9, 1929. Serial No. 338,808. 13 Claims. (Cl. 12—1.)



1. In a humidifying apparatus, a products chamber, a steam dethermalising chamber, a duct connecting said chambers, and means for the inflow of air to the duct for admixture with the partially dethermalized water vapor.

1,916,456. STRAINING DEVICE. ANTON YURKOVITCH, Pittsburgh, Pa. Filed Jan. 11, 1932. Serial No. 585,834. 10 Claims. (Cl. 210—159.)



8. A straining device of the character disclosed, comprising upper and lower telescoping sections and a strainer element tautly held therebetween, said upper section be-

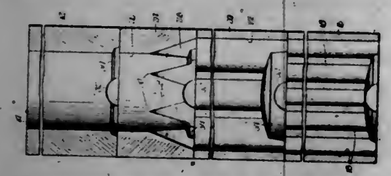
ing provided with hinged locking means extending to said lower section, said lower section being provided with clamping-clip-including means for receiving and holding said hinged locking means in locking position.

1,916,457. PRODUCTION OF HALOGEN COMPOUNDS. ABRAHAM SIDNEY BEHRMAN, Chicago, Ill. Filed Jan. 29, 1932. Serial No. 589,769. 11 Claims. (Cl. 23—89.)

1. The process of producing halides, which comprises reacting in acid mixture a halogen, carbon, and an aqueous solution containing a component capable of reacting in said mixture to provide the positive constituent of the desired halide.

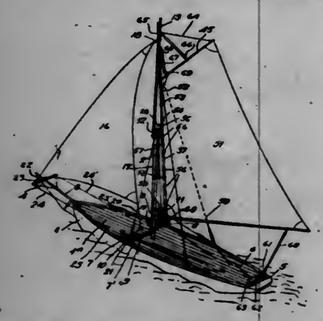
6. The process for producing iodides, which comprises reacting a mixture containing iodine, carbon, and an aqueous solution containing a component capable of reacting in said mixture to provide the positive constituent of the desired iodide, and maintaining said mixture at an elevated temperature during said reaction.

1,916,458. CHECKER CONSTRUCTION. CHARLES G. BIGELOW, Chicago, Ill., assignor to Freyn Engineering Company, Chicago, Ill., a Corporation of Maine. Filed Feb. 27, 1931. Serial No. 518,678. 8 Claims. (Cl. 263—51.)



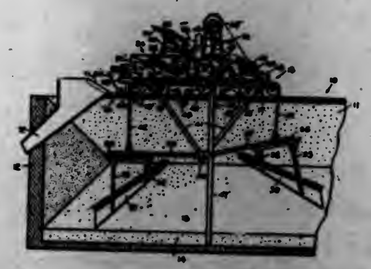
1. A heat-exchanging structure, comprising sets of superposed refractory bodies having vertical passages extending therethrough, the number of which passages increases from the uppermost bodies to the lowermost ones, and certain of said bodies located intermediate the structure being provided with oblique curved surfaces merging into a passage, and a cross-over flue provided in the bottom surface of said bodies.

1,916,459. FORE AND AFT RIGGED VESSEL. EDWARD L. BLACKMAN, Brooklyn, N. Y. Filed Aug. 3, 1931. Serial No. 554,824. 20 Claims. (Cl. 114—91.)



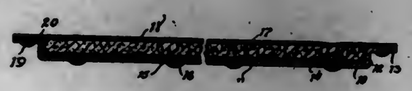
1. A fore and aft rigged vessel having a mast, a spar pivotally connected to the upper end of said mast and extending beyond the upper end of said mast, a gaff slidably mounted on said spar to be positioned above the connection between said spar and said mast, a boom pivotally connected to the lower end of said spar, and a sail connected to said spar, gaff and boom.

1,916,460. SEDIMENTATION DEVICE. SAMUEL I. BOUSMAN, Denver, Colo., assignor, by mesne assignments, to The Dorr Company, Inc., New York, N. Y., a Corporation of Delaware. Filed June 1, 1929. Serial No. 367,783. 16 Claims. (Cl. 210—55.)



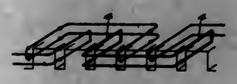
1. Sedimentation apparatus comprising, the combination with a grit chamber of means movable longitudinally of said chamber for removing settled solids from the bottom thereof comprising rake blades set at an angle to their direction of movement, and means for adjusting the operative angle of the blades.

1,916,461. TREAD MEMBER. BUDD BRONSON, Lakewood, Ohio, assignor to The Ohio Rubber Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 30, 1929. Serial No. 336,304. 8 Claims. (Cl. 94—11.)



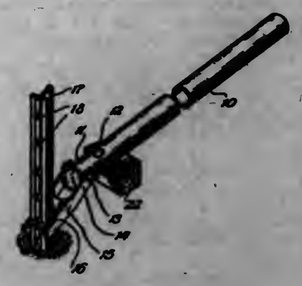
1. A device of the character described comprising a metallic base having a pan-like depression therein, cushioning material in said depression, and a layer of rubber attached to said cushioning material and to said base.

1,916,462. COMMUTATING ELECTRIC MACHINE. LUDVIG ARTHUR DREYFUS, Vasteras, Sweden, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Corporation of Sweden. Filed Jan. 25, 1929, Serial No. 334,968, and in Sweden Jan. 27, 1928. 11 Claims. (Cl. 171—228.)



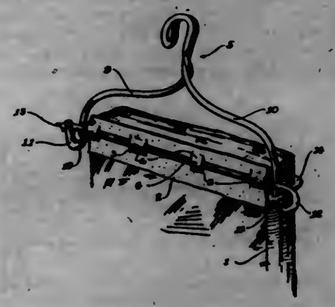
1. In commutating electrical machines, an armature core, armature conductors arranged in slots in said core and connected to a commutator, an additional U-shaped conductor in each slot having its legs parallel to and substantially on either side of certain armature conductors therein, and conductors arranged in other slots of said armature and connected to said U-shaped conductors to form closed circuits.

1,916,463. FENCE POST PULLER. FRANK G. CARREL, Western Springs, Ill., assignor, by mesne assignments, to Calumet Steel Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 24, 1930. Serial No. 497,658. 7 Claims. (Cl. 254—132.)



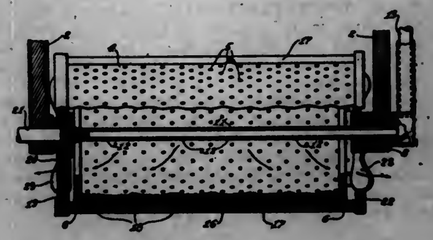
1. A fence post puller comprising a lever arm and a part swingably connected thereto for engagement with a post, said part having a transverse sectional profile conforming to the corresponding profile of said arm and adapted to be swung to lie close to said arm.

1,916,464. BACON HANGER. JOHN E. COVEY, Chicago, Ill., assignor to Swift and Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 5, 1931. Serial No. 566,953. 6 Claims. (Cl. 17—44.)



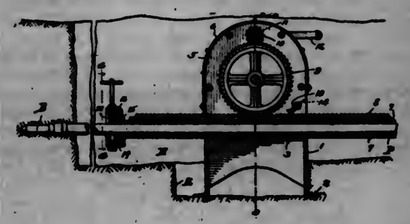
1. A safety-pin type of skewer hanger for bacon slabs which hanger comprises a supporting member providing a hook at the upper portion thereof from which there depend spreading supporting arms, from the lower end of one of which supporting arms through the medium of a loop section there is integrally connected and carried a swingable skewer or pin member, the other supporting arm being provided at the lower end thereof with a reversely bent section providing a U-shaped hook for the reception of the free end of the skewer or pin member, said hanger also comprising a U-shaped confining member which has a transversely extending retaining bar from which there forwardly extend spacing elements or legs the forward end of each of which legs is connected to the lower ends of the respective supporting arms by being looped around the same, the looped portion of one of said legs being connected to the loop prvided between the supprting arm and the skewer section or pin whereby the confining member is necessarily properly positioned against undue vertical movement relative to the skewer or pin member.

1,916,465. PROCESS AND APPARATUS FOR ELECTROPLATING PROJECTILES. GEORGE L. DAWSON, Alton, Ill., assignor to Western Cartridge Company, East Alton, Ill., a Corporation of Delaware. Filed Apr. 8, 1929. Serial No. 353,426. 7 Claims. (Cl. 204—11.)



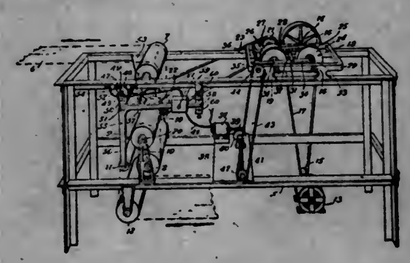
1. An apparatus for plating small articles, comprising, a plating bath, a tumbling barrel rotatable therein adapted to receive the articles, and a tubular anode within said barrel connected to receive electrolyte from a supply and perforated at intervals along the barrel so as to deliver electrolyte along the barrel to the articles within the barrel.

1,916,466. PIPE PUSHER. JOHN W. ECKLES, San Antonio, Tex. Filed July 29, 1932. Serial No. 626,106. 3 Claims. (Cl. 254—29.)



1. A pipe-pushing machine including a tubular guide, a pedestal therefor having anchoring means, a tubular pipe holder slidable in the guide, a rack thereon, gearing for actuating the rack, and pipe-gripping means on the holder.

1,916,467. TENSION REGULATOR. ERNST EGER, Detroit, Mich., assignor to Morgan and Wright, Detroit, Mich., a Corporation of Michigan. Filed Mar. 16, 1928. Serial No. 262,163. 2 Claims. (Cl. 271—2.3.)



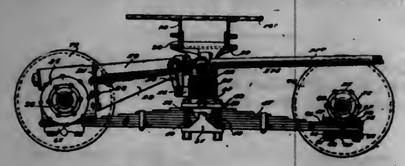
1. The combination with a variable feed device including electrical operating means, of a bell crank having a depending arm and a lateral arm, a roll journalled in the free end of the depending arm, means of adjustment associated with the lateral arm for measuring and varying

the pressure of said roll sidewise against a substantially vertical stretch of moving strip material, and contacts coacting with said bell crank to control circuits associated with said electrical means.

1,916,468. TEA EXTRACT PASTE. ALBERT A. EPSTEIN, New York, N. Y., assignor to Consolidated Patentees Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 4, 1931. Serial No. 513,356. 1 Claim. (Cl. 99—11.)

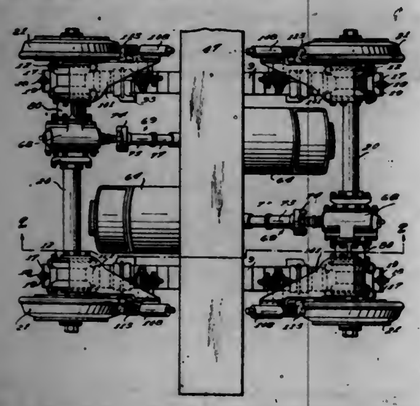
A method for preparing a tea extract paste which consists in, first, gathering a predetermined quantity of tea leaves, second, mixing calcium hydrate with cold water, third, mixing the tea leaves with the cold water, fourth, agitating the mixture, fifth, decanting the extracted solution, sixth, concentrating the residue and seventh, mixing the residue with a fluid to form a paste.

1,916,469. EIGHT WHEEL RAIL CAR. FRANK R. FAGBOL and WILLIAM B. FAGBOL, Kent, Ohio, assignors to Twin Coach Company, Kent, Ohio, a Corporation of Delaware. Filed Mar. 7, 1930. Serial No. 434,048. 36 Claims. (Cl. 105—119.)



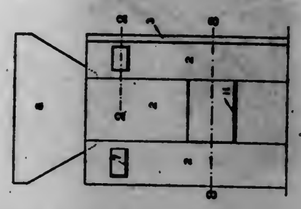
1. A rail car comprising a bolster arranged to support the car body for pivotal movement about a substantially vertical axis, a pair of drive axles disposed within axle housings arranged at each side of said bolster, springs to space said axle housings from said bolster, drive shafts for said axles, and torque tubes secured to said axle housings and through which said drive shafts extend, said torque tubes being connected to said bolster so as to be flexible in directions other than necessary to resist the driving torque reactions.

1,916,470. RAILWAY ROLLING STOCK. FRANK R. FAGBOL and WILLIAM B. FAGBOL, Kent, Ohio, assignors to Twin Coach Company, Kent, Ohio, a Corporation of Delaware. Filed Oct. 20, 1930. Serial No. 490,042. 13 Claims. (Cl. 105—119.)



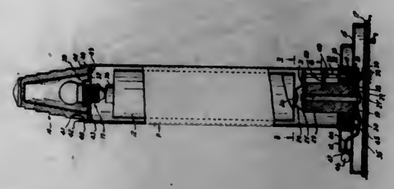
5. A rail car truck, comprising a bolster arranged to support a car body; a pair of axles; a pair of bearing housings for each axle; a pair of wheels for each axle; leaf springs secured between their ends to said bolsters and connected at their ends to said bearing housings; and a wheel brake assembly supported solely from one of said housings.

1,916,471. DISPLAY STAND. CLIFFORD D. FALLERT, St. Louis, Mo., assignor to Robert Gaylord Incorporated, a Corporation of Missouri. Filed Jan. 2, 1932. Serial No. 584,365. 3 Claims. (Cl. 211—156.)



1. A display stand comprising panels forming an open end tubular body portion, two of said panels being provided with open ended slots positioned adjacent their junction with a third panel, inwardly projecting integral brackets carried by said body portion, a shelf capable of being introduced into the open end of the body portion, said shelf resting upon said brackets, and a flange carried on one edge of said shelf and having laterally projecting parts entering the open ended slots when the shelf is positioned whereby the shelf is held in position on the brackets.

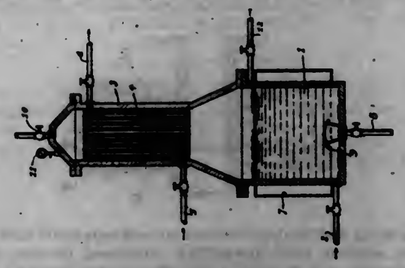
1,916,472. CANDLE FLASH LIGHT. ISAAC L. FERRIS and GILES C. FULLMER, Bridgeport, Conn., assignors to The Bridgeport Metal Goods Mfg. Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 2, 1931. Serial No. 527,180. 10 Claims. (Cl. 240—10.64.)



1. In a portable electric light generally in the form of a candle, a base of sheet metal, a casing of sheet metal threaded to said base, a bulb at the upper end of said casing, a battery in said casing, a disc of insulating material carried by the base, a post of insulating material carried by the disc, a spring contact carried by the post and engaging the lower end of the battery and acting to maintain the battery in engagement with the bulb, and switch means carried by the disc and operable to close a circuit between the battery and bulb.

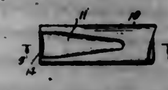
1,916,473. METHOD OF CONTROLLING THE TEMPERATURE OF CHEMICALLY REACTING LIQUIDS. HENRY O. FORREST, Andover, Mass., and PER K. FROLICH, Elizabeth, N. J., assignors to National Synthetic Corporation, Painesville, Ohio, a Corporation of Delaware. Filed Jan. 31, 1930. Serial No. 424,907. 9 Claims. (Cl. 260—172.)

1. A method of carrying out an exothermic liquid-gas reaction, comprising passing said gas into the liquid in a closed system, and regulably controlling vaporization of the liquid by regulation of the total pressure on the system, whereby to maintain the liquid uniformly at re-



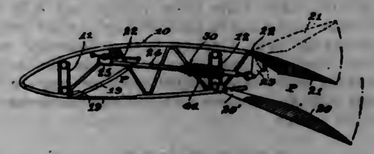
action temperature, said pressure being greater at all times than the vapor pressure of the liquid at said temperature.

1,916,474. COPPER AND COPPER ALLOY TUBE AND METHOD OF MAKING. FRED W. FRENCH, LEON H. FRENCH, and HARRY B. RATHBUN, Waterbury, Conn., assignors to The American Brass Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 10, 1930. Serial No. 501,226. 11 Claims. (Cl. 148—16.)



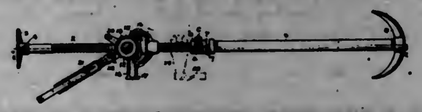
1. The method of annealing a metal tube which consists in producing a non-oxidising atmosphere within the tube, sealing the tube to maintain this atmosphere, and then heating the tube to the annealing temperature.

1,916,475. AIRPLANE. RANDOLPH F. HALL, Rochester, N. Y. Filed June 16, 1931. Serial No. 544,884. 24 Claims. (Cl. 244—29.)



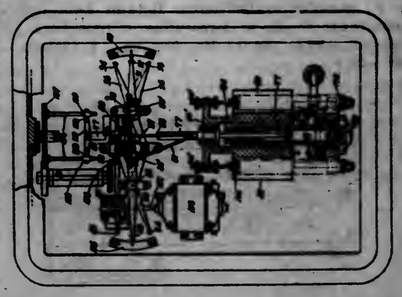
1. In combination, an airplane wing, an aileron on the wing, and means automatically positioning the aileron to increase lift capacity of the wing when the wing is under high attack angle or low speed flight conditions.

1,916,476. PUSHING AND PULLING IMPLEMENT. BRENT W. HARBAUGH and CHARLES JACOB SMITH, Ashland, Ohio, assignors to The Elite Manufacturing Company, Ashland, Ohio, a Corporation of Ohio. Filed May 18, 1929. Serial No. 364,210. 1 Claim. (Cl. 254—100.)



A push and pull implement, including a screw shaft, a tubular extension for said shaft axially aligned therewith, a coupling including a semi-cylindrical section and a screw-threaded semi-cylindrical section hinged together and releasably connected with said screw shaft, and work-engaging means upon said parts.

1,916,477. AUTOMATIC CONTROL APPARATUS. JOHN LAWRENCE HODGSON, ALEXANDER IVANOFF, and GILBS PHILIP ELIOT HOWARD, Luton, England, assignors to George Kent, Limited, London, England. Filed Aug. 22, 1931, Serial No. 558,822, and in Great Britain Aug. 29, 1930. 19 Claims. (Cl. 236—70.)

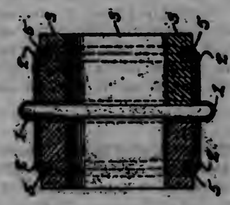


1. In apparatus for automatically controlling a condition of a fluid which depends upon its heat content, the combination of means responsive to the extent of deviation of said condition from a predetermined value; means responsive at intervals to the increment of deviation of the condition from that of a preceding interval to ascertain the rate of change; a device operatively connected with said deviation extent responsive means; a device operatively connected with said deviation rate responsive means; a control means adapted to effect change of said condition of the fluid; and a differential gearing connected to said control means for transmitting drive to the latter and being operable under conjoint control of said deviation extent responsive means and said deviation rate responsive means in dependence on the relative values of extent of deviation and rate of deviation.

1,916,478. PROCESS OF OBTAINING EFFICIENT GERM-GLAND SUBSTANCES IN A WATER-SOLUBLE CONDITION. WALTER HOHLWEG, Vienna, Austria. Filed Aug. 25, 1927, Serial No. 215,530, and in Germany Sept. 4, 1926. 6 Claims. (Cl. 167—74.)

1. Process of obtaining aqueous solutions of efficient constituents of germ glands consisting in dissolving a non-saponifiable sexual-hormone oil in alcohol, mixing to the solution a powdery hydrate of an alkaline earth until a thick paste is formed, boiling after addition of water while agitating the mixture, filtering off the liquid, precipitating in the latter the alkaline earth by carbonic acid and separating the formed carbonate from the aqueous hormone solution.

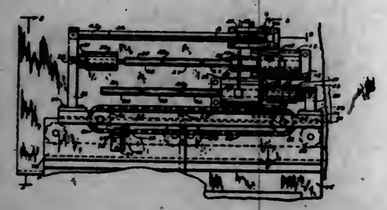
1,916,479. PIPE COUPLING. BRUCE GORDON HOWELL, Harlingen, Tex., and IRA F. STONE, Arlington, Va. Filed June 28, 1932. Serial No. 619,800. 2 Claims. (Cl. 285—114.)



1. Means for joining the abutting ends of pipe sections at the time they are being molded to provide for expansion and contraction due to temperature changes comprising a flexible metallic sleeve having an expansion zone adapted to be disposed about the pipe ends, and reinforced

beads at the ends of the sleeve anchored in the outer surfaces of the pipe sections at the time they are being cast.

1,916,480. ENTRANCE INCLOSURE DOOR ACTUATING MECHANISM. LUDWIG G. JACOBSON, Jamestown, N. Y., assignor to Dahlstrom Metallic Door Company, Jamestown, N. Y., a Corporation of New York. Filed Mar. 28, 1929. Serial No. 350,793. 8 Claims. (Cl. 268—49.)



1. In an entrance inclosure, multi-speed doors mounted for reciprocation upon said inclosure, a door operating mechanism comprising a channular member mounted upon one of said doors, a chain and sprocket structure mounted upon said channular member, the other of said doors being secured to said chain, supporting members mounted upon said channular member, rods parallel with each other mounted in said supports and electromagnetic means adapted to act upon and move said rods in one direction or another whereby to open or close said inclosure doors.

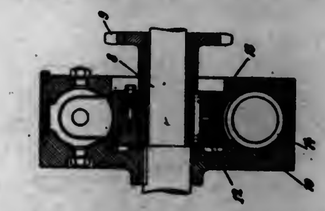
1,916,481. ELECTRICAL FIRE ALARM. RONALD PURVIS JAMESON, Christchurch, New Zealand, assignor to The Vigilant Automatic Fire Alarm Company Limited, Christchurch, New Zealand, a Company of New Zealand. Filed Oct. 27, 1931, Serial No. 571,389, and in New Zealand July 10, 1931. 4 Claims. (Cl. 200—142.)



1. In electrical fire alarm systems, a thermostatic switch device including a rigid part, a yieldable contact and other contacts associated therewith, a member controlling said yieldable contact, adjustable retaining means upon the end of said member to adjust said yieldable contact and held against the rigid part of the device, said retaining means formed of two parts, one part prevented from inward movement by the rigid part of the device, the other part adjustably joined to said member, fusible metal interposed between the two parts, said other part moving in relation to the first part and permitting said member to move inward under tension of the yieldable contact when the fusible metal is fused due to heating.

1,916,482. YIELDABLE GEARING. VIGGO AXEL KJAER, Copenhagen, Denmark. Filed Aug. 5, 1931, Serial No. 555,352, and in Denmark Sept. 4, 1930. 2 Claims. (Cl. 74—29.)

1. A yieldable gearing provided with means for dampening vibrations, comprising a driving member having a hub, an overload release mechanism mounted on said hub, the said mechanism comprising a plurality of concentric frictional elements provided with downwardly inclined contacting faces, the outermost of said elements carrying radially disposed abutments, a driven member including a housing surrounding said abutments, the said housing being oscillatably mounted on said outermost member, and resilient instrumentalities interposed between said abutments and connecting the same to said housing.

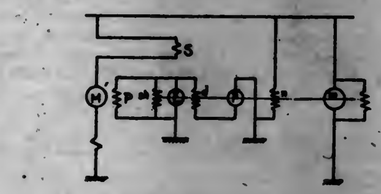


1,916,483. INFLATABLE ARTICLE. ORA KRICHBAUM, Delaware, Ohio. Filed Mar. 14, 1930. Serial No. 435,778. 1 Claim. (Cl. 5—349.)



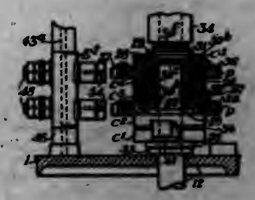
An inflatable envelope comprising upper and lower walls of flexible air-tight sheet material directly connected together at their edges, and a series of webs connecting said walls arranged in substantially parallel planes inclined transversely to their length when the envelope is inflated, said envelope when deflated having substantially parallel walls lying close together and said webs lying between said walls in substantially parallel arrangement therewith, said envelope having fastening means positioned along one side thereof adjacent the corners, by means of which the deflated envelope may be used as a cape with two corners fastened together across the chest of the wearer.

1,916,484. DIRECT CURRENT MOTOR CONTROL SYSTEM. FERNAND LEJEUNE, Paris, France, assignor to Forges & Ateliers de Constructions Electriques de Jeumont, Societe Anonyme, Paris, France. Filed Dec. 18, 1932, Serial No. 647,062, and in France Dec. 29, 1931. 5 Claims. (Cl. 172—179.)



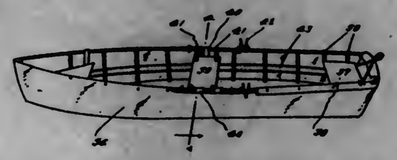
1. A direct current motor control system, comprising a motor, an independent field for said motor, a generator for exciting said motor field, said generator having shunt and independent field winding and also a separate field winding excited by the current of said motor, said last-mentioned field winding acting cumulatively with said shunt field winding and in opposition to said independent field winding of said generator during the starting of said motor, and means for feeding said independent field winding of said generator with a current regulated by the difference of two opposing voltages, one of said voltages being that of said generator and the other being constant.

1,916,485. TIME GOVERNED CIRCUIT CONTROLLING MECHANISM. KURT MANRODT, Newark, N. J., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Dec. 15, 1931. Serial No. 581,122. 6 Claims. (Cl. 200—38.)



1. A circuit controlling mechanism comprising a rotatable shaft, means for rotating said shaft from one extreme position to another extreme position at a constant rate of speed, three contacts, means controlled by said shaft for closing a first one of said contacts when and only when said shaft is in said other extreme position, other means controlled by said shaft for closing a second one of said contacts when said shaft occupies said one extreme position and for subsequently maintaining said contact closed during a portion of the movement of said shaft from said one extreme position to said other extreme position, and still other means controlled by said shaft for controlling the third one of said contacts in such manner that said third contact is open when said shaft occupies either extreme position but that said third contact becomes closed for a predetermined interval of time while said second contact is closed during movement of said shaft from said one extreme position to said other extreme position.

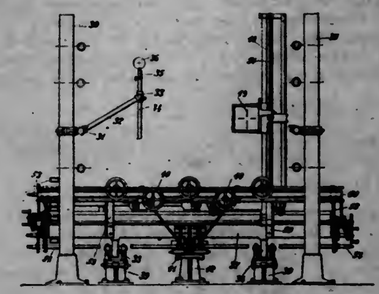
1,916,486. COLLAPSIBLE BOAT. ERNEST MILLER, Bremerton, Wash. Filed July 27, 1932. Serial No. 625,078. 7 Claims. (Cl. 9—2.)



1. A boat of the class described comprising a sectional bottom, a sectional stern, a hingedly attached keel member, a rail comprising a frontal section hingedly attached to said keel member, and spaced parallel rear end members hingedly attached to said stern, all of said rail members being separably joined together, longitudinally spaced ribs carried by said rail members and detachably connected with the marginal portion of said bottom.

1,916,487. PHOTOGRAMMETRIC APPARATUS. UMBERTO NISTRI, Rome, Italy. Filed July 19, 1930, Serial No. 469,117, and in Italy July 27, 1929. 2 Claims. (Cl. 33—20.)

1. Photogrammetric apparatus for tracing the drawing corresponding to a land tract represented by two photographs, comprising in combination two projecting apparatus having their axes disposed in the same relative direction as the axes of the optical system used for obtaining the impression of the image, means for supporting and controlling said optical systems consisting of two vertical columns, two guides fixed on each of said columns, two trucks symmetrically disposed to run independently on said guides, handwheels for controlling said trucks, a transverse slide carried on each of said trucks, a truck slidable on each of said transverse slides, a slide mounted orthogonally to each of said transverse slides and carried by each of said trucks running on said transverse slides, a projection device mounted on each of said two orthogonal slides, enabling the universal and independent movement of each of the two systems of projection in the direction of the three orthogonal co-ordinate axes in space, a rotating movement about the optical axis, a movement of inclination of the optical axis and a rotating movement



about an axis determined by the plane comprising the said axis and the optical axis in any inclination it may assume; a drawing system for drawing the map corresponding to the two photographs and comprising a number of small screens, each fitted with translucent glass and hair lines, two vertical columns disposed at the sides of the system, each carrying four of the said small screens by means of articulated rods, controlled with micrometrical devices, a drawing apparatus comprising a movably mounted main drawing board, two trucks disposed to move in the transverse direction to the movement of said drawing board, a vertical rod carried in the fore part on one of said trucks, a principal screen slidably carried on said rod, a second rod mounted on the other truck, disposed normally to the plane of the horizon of the reconstruction, and a truck adapted to carry a pencil, said last mentioned truck being slidably mounted on said second rod.

1,916,488. ELECTRIC LEAD CONNECTER. RICHARD PARRISH, Detroit, Mich., assignor to John A. Bedford, Detroit, Mich. Filed July 2, 1931. Serial No. 548,314. 5 Claims. (Cl. 173—263.)



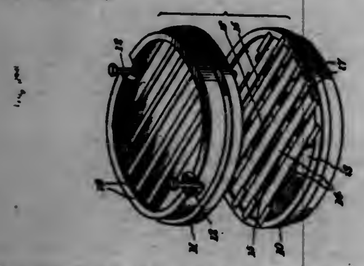
1. A connecter for electrical conductors comprising a body member provided with a channel extending throughout its length, the channel being open for the lateral insertion therein of an electrical conductor, a screw extending through the side of the body member for actuating the block to clamp the conductor between the block and the side of the member opposite said first mentioned side, and a slidable cover comprising marginal flanges connected by a web for limiting relative lateral movement of the margins of the sides of said member adjacent the open side of said channel.

1,916,489. LINK CHAIN FOR ELECTRIC ILLUMINATION. WILHELM REICHMANN, Wuppertal-Barmen, Germany, assignor to Albert Abraham Soesman, Zurich, Switzerland, and Otto Heinrich Zimmermann, Barmen, Prussia, Germany. Filed Oct. 10, 1930. Serial No. 487,884. 2 Claims. (Cl. 40—130.)



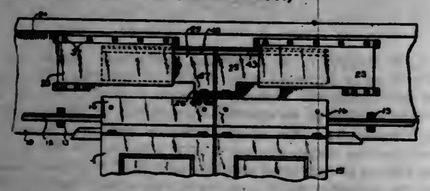
1. A link chain for electric illuminations and advertising comprising a plurality of links of insulating material and metallic conductors connected in parallel, each link being in the form of an elongated block having passages therein for the metal conductors and at least one loop at each end, thereby forming an independent and self-acting link and the loops at the ends forming a pivotal connection with adjacent links; means whereby the links are mechanically snapped together in electrical contact with each other; and a lamp socket for each link in electrical contact with at least one of the metal conductors, said socket being provided in the axis of its respective link.

1,916,490. VALVE. HOWARD A. RIKE, Norphlet, Ark. Filed June 27, 1931. Serial No. 547,361. 1 Claim. (Cl. 277—46.)



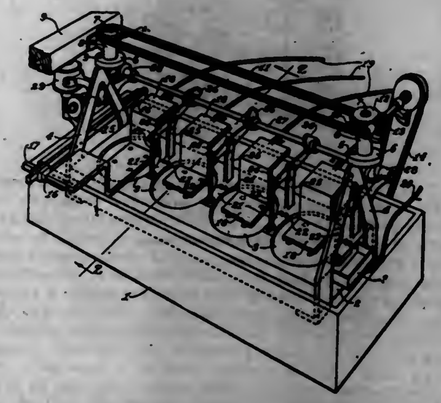
In a valve, a slotted valve seat, a valve guard having a countersunk open framework extending crosswise therein and secured against the inner face of the seat, said valve guard having at its inner face an inner marginal annular ledge and also having oppositely registering recesses spaced apart in said ledge and having rounded bottom walls, flat inelastic valve strips disposed on said ledge between the recesses and at an angle across the framework for bodily movement toward and from the valve seat, and wear keys seated in said recesses and having outer flat faces for engagement against the inner face of the valve seat and having rounded inner faces for seating engagement in the recesses for aligning said keys with said valve seat and stripe when said seat and valve guard are brought together.

1,916,491. RECTILINEAR INDUCTION MOTOR. EDWIN L. ROSE, Cambridge, Mass., assignor to Dahlstrom Metallic Door Company, Jamestown, N. Y., a Corporation of New York. Filed May 27, 1931. Serial No. 540,859. 6 Claims. (Cl. 172—290.)



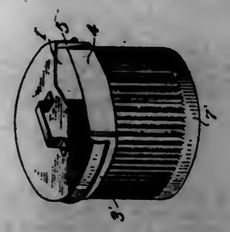
1. A rectilinear induction motor including a field structure comprising a casing and a stator, walls defining a longitudinal opening in said casing, said stator including a pair of duplicate spaced apart core elements, means in said casing supporting said core elements, walls defining slots in said core elements, coils mounted in said slots, a guide mounted in said casing and vertically aligned with said opening, a shoe, said shoe being engaged with and supported by said guide, an armature secured to and depending from said shoe, said armature being movable in one direction or the other when said coils are suitably energized from a two-phase source of current supply.

1,916,492. PROCESS OF PLATING SHOT. ALFONS G. SCHURICHT, Alton, Ill., assignor to Western Cartridge Company, East Alton, Ill., a Corporation of Delaware. Filed Jan. 31, 1929. Serial No. 336,428. 12 Claims. (Cl. 204—11.)



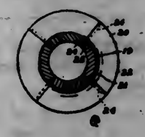
1. In the art of plating shot, the process comprising, rolling a batch of shot uniformly about all axes thereof on a substantially planar surface while the plating is deposited thereon and transferring the batch to another surface for similarly rolling thereon while the plating is continued.

1,916,493. CONTAINER. NAT L. SOLOMON, Brooklyn, N. Y., assignor to Harry S. Reel, New York, N. Y. Filed May 14, 1930. Serial No. 452,177. 1 Claim. (Cl. 220—65.)



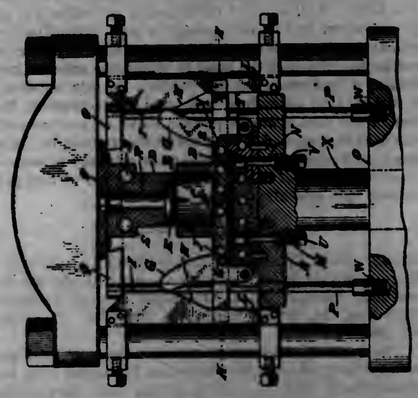
An improved preformed moisture and fly-proof bag-shaped garbage container adapted to be inserted into and conformed to the inside of a cylindrical garbage can forming a liner therefor, said container being made of a freely flexible water-proof fabric and comprising a preformed bag having a substantially square bottom together with unitary sides severally terminating in freely flexible but not self sustaining tab portions, the tab portions of the sides being of a size sufficient to fold toward each other and completely close the top of the container to prevent ingress of insects and also to prevent the liberation of odors and being further adapted to be bent over the rim of a can in which the bag is inserted and conformed as a liner whereby to form a substantially continuous depending sectional apron for the rim, the said apron being adapted to coact with a superimposed and fitted cover for the can to be retained thereby and to seal the can and its contents.

1,916,494. MOWER GUIDE FOR LAWN FIXTURES. OTTO SCHRICKEL, Mount Healthy, Ohio. Filed June 20, 1932. Serial No. 618,229. 2 Claims. (Cl. 47—33.)



1. A lawn mower guide structure for lawn edging purposes constituted of a series of interlocking members each of which comprises a substantially flat horizontal wall of sufficient width to accommodate a wheel and a portion of the cutting elements of a lawn mower, a substantially vertical retaining wall for confining earth, mulch and water within an enclosure bounded by said interlocking members and a light excluder for vegetation constituted of interlocking flange members extending substantially the full depth of the horizontal wall and substantially the full height of the vertical wall, said light excluder flanges being connected together along their full length to provide a continuous barrier to the growth of vegetation.

1,916,495. METHOD OF MOLDING. LOUIS B. SHAW, East Orange, N. J., assignor to John Stogdell Stokes, Spring Valley Farms, Pa. Filed Sept. 22, 1928. Serial No. 307,606. 6 Claims. (Cl. 18—55.)

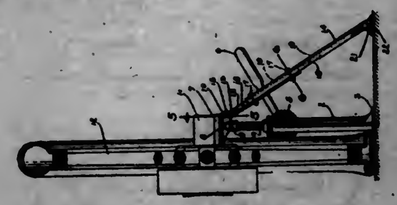


1. A transfer pressure method of molding potentially reactive infusibly thermosetting resinous material by the use of a closed mold and a pressure chamber in flow communication therewith, which includes placing solid potentially reactive infusibly thermosetting resinous material in the pressure chamber, heating and simultaneously subjecting the material to a positive pressure in order to plasticise the material progressively and to cause the same to flow from the pressure chamber to the mold until the mold is filled, continuing the application of said pressure on the material in the pressure chamber in order to hydrostatically apply pressure to the material in the filled mold and at the same time heating the material in the mold, the pressure and temperature in the mold being so controlled as to cause the material therein to rapidly react to its permanently set and infusible condition, the material being kept hot and under pressure throughout the molding operation.

1,916,496. METHOD OF MAKING LEAD ALLOYS. ROBERT J. SHOEMAKER, Chicago, Ill., assignor to S. & T. Metal Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 24, 1930. Serial No. 491,081. 5 Claims. (Cl. 75—1.)

1. Method of compounding a lead alloy which consists in melting the lead under a molten covering; introducing the tin, aluminum and magnesium into the lead through said covering and thereafter the calcium; and introducing the mercury, lithium, or potassium into the metallic body while it is at a temperature not substantially in excess of 700 degrees Fahrenheit.

1,916,497. LIFTING JACK. AUGUST W. SKOG, Minneapolis, Minn. Filed Feb. 27, 1928. Serial No. 257,410. 9 Claims. (Cl. 254—134.)



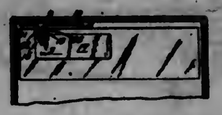
1. The combination with a lifting jack having a head connected therewith adapted to engage a wheel hub on the outer side of the wheel, of an auxiliary load-supporting member having one end movably connected with said head and its opposite end engaged with the ground whereby when the jack is operated to lift the load, the load may be shifted from said jack onto said member to permit the removal of the tire.

1,916,498. TEMPERATURE CONTROLLED APPARATUS. JOHN A. SPENCER, Newtonville, Mass., assignor to Spencer Thermostat Company, Cambridge, Mass., a Corporation of Massachusetts. Original application filed Apr. 3, 1925, Serial No. 20,455. Divided and this application filed Dec. 5, 1930. Serial No. 500,213. 2 Claims. (Cl. 219—25.)



2. In an electric sadiron which has a base member having a recess therein and a thermostat within the recess and a heating member juxtaposed to said base member, means conducting heat at varying rates from said heater to said thermostat comprising a rotatable stem and an arm on said stem adapted to be brought into greater and less degrees of juxtaposition with said heater as said stem is rotated.

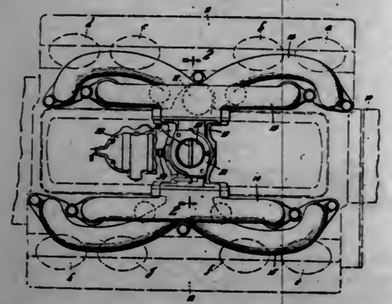
1,916,499. GLARE SHIELD. WILLIAM J. SUMMERBELL, Los Angeles, Calif. Filed July 6, 1932. Serial No. 621,047. 5 Claims. (Cl. 296—97.)



3. A glare shield comprising a track noncircular in cross section, a housing presenting a cylindrical interior surface and through which the track extends, a sectional bushing

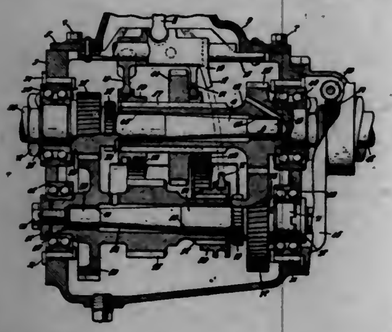
in the housing, one section of the bushing being grooved for reception of the track, track engageable means between the sections of the bushing, leaf spring means having its ends engaging and urging the track engageable means into engagement with the track and urging the bushing to expand in the housing, means for disengaging the track engageable means from the track, and a glare shield mounted for limited rotational movement on the housing.

1,916,500. INTAKE MANIFOLD. CALEB E. SUMMERS, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 8, 1930. Serial No. 450,700. 4 Claims. (Cl. 123—122.)



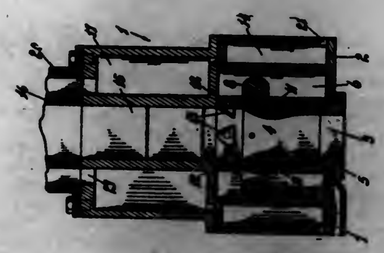
1. In an internal combustion engine of the class described, a plurality of cylinders, a charge forming device, a conduit communicating with the charge forming device, a conduit which communicates intermediate its ends with the first-mentioned conduit, at one end with one or more of the cylinders and at the other end with the other cylinder or cylinders, a valve located on the atmospheric side of the second-mentioned conduit for controlling the passage of combustible mixture from the charge forming device to the cylinders, a wall which forms a partition within the second-mentioned conduit and which is adapted to divide the stream of combustible mixture which passes the valve into two streams, of which one flows into each of the branches of the second mentioned conduit, and a passage opening into the first-mentioned conduit on the atmospheric side of the valve and having a branch opening into the second-mentioned conduit on each side of the partition.

1,916,501. TRANSMISSION. PERRY L. TENNEY, Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 22, 1931. Serial No. 510,361. 11 Claims. (Cl. 74—57.)



1. In a power transmission, a housing, aligned driving and driven shafts, anti-friction bearings for said shafts in opposite housing walls, a gear member fixed on each shaft adjacent its bearing, one of said shafts also having a clutch member adjacent its gear member, said shafts being telescopically arranged between the region of the gear of one shaft and the gear and clutch members of the other shaft, a clutch member slidable and non-rotatable about the outer of the telescopic shafts to cooperate with the first-mentioned clutch member whereby the two shafts may rotate as one, and selective means cooperating with said gears to drive the driven shaft from the driving shaft as a predetermined ratio.

1,916,502. CARBURETOR. JAMES WHYTE, Lynwood, Calif. Filed Mar. 26, 1932. Serial No. 601,355. 2 Claims. (Cl. 261—18.)



1. A carburetor for low gravity fuels comprising a branch manifold adapted to be secured to the intake manifold of the engine, a gasoline carburetor on one end of said branch manifold, a low gravity fuel carburetor attached to the other end of the branch manifold, a jacket surrounding the branch manifold above the low gravity fuel carburetor, a pipe extending from the exhaust manifold of the engine to the jacket, a bowl, said bowl having a central air passage, a venturi in the air passage, a pipe extending from the bowl to the branch manifold, a heating chamber surrounding the pipe and the bowl in which the exhaust gases circulate, a fuel chamber surrounding the air passage, a fuel intake pipe extending into said fuel chamber, float means in the fuel chamber, needle valve means connected to the float means, and means above the venturi in the air passage connected to the fuel chamber whereby pressure is exerted on the top of the fuel, and a plurality of fuel ports extending into said air passage.

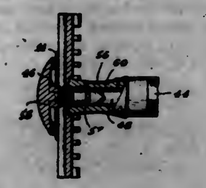
1,916,503. PROCESS OF CLEANING METAL. AUSTIN B. WILSON, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 14, 1930. Serial No. 475,374. 11 Claims. (Cl. 204—1.)

1. The method of cleaning carbon steel and analogous material which consists in immersing the metal in a bath of hydrochloric acid, to remove oxides and other foreign material from the surface of the metal and leaving a coating of oxidizable material thereon, and thereafter immersing the metal in a bath of chromic acid, and passing current through the bath with the metal acting as the anode to remove the oxidizable material.

1,916,504. SAFETY RAZOR. LAWRIE L. WITTER, Boston, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware. Filed Nov. 14, 1930. Serial No. 495,701. 21 Claims. (Cl. 30—12.)

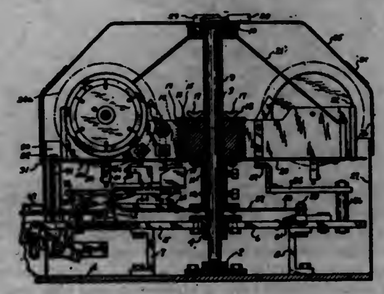
20. A safety razor comprising a cap having a screw-threaded stem extending from a curved, blade-engaging face, a guard having a co-operating face apertured to receive said stem, a handle constructed and arranged to be threaded upon the stem to force the faces of the cap and guard into flexing engagement with an interposed blade,

and co-operating stop means on the handle and stem in addition to the threads thereof for limiting the separation of the cap and guard to a position in which the blade may re-



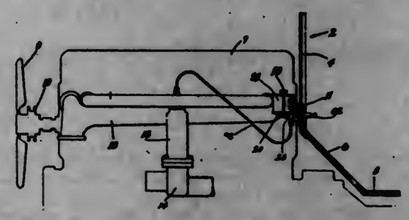
assume its flat condition, while maintaining the stem in position to serve as an axis for relative rotation of cap and guard.

1,916,505. VOTING MACHINE. ROBERT H. ZSCHAU, Cincinnati, Ohio. Filed Jan. 15, 1932. Serial No. 586,833. 14 Claims. (Cl. 235—50.)



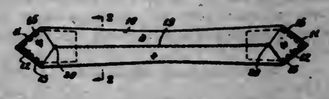
1. In a voting machine, a plurality of movable ballots, means for marking said ballots, operating means for said marking means, means for causing movement of selected ones of said ballots into position whereby said operating means may actuate said marking means to mark on the ballot, and means for causing movement of said ballots to present successive portions thereof to the marking means.

1,916,506. DECARBONIZER. JOSEPH ZUBATY and LUCIAN B. SMITH, Flint, Mich., assignors to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Apr. 17, 1931. Serial No. 530,872. 11 Claims. (Cl. 123—198.)



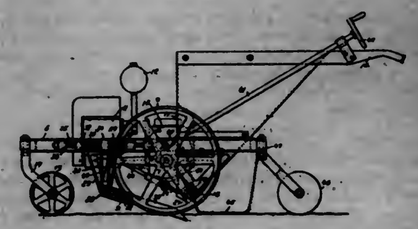
1. In a carbon removing device for application to an internal combustion engine, a bracket permanently mounted relative to the engine, said bracket having a recess, a container for a carbon remover mounted on the bracket, a portion of the container extending into the recess, means on the bracket to puncture the portion of the container extending into the recess, manually operable means to operate said first-named means after the container has been mounted on the bracket, and means constraining the carbon remover to flow to the engine.

1,916,507. SCARF. MORRIS A. GREEN and JACOB M. GREEN, New York, N. Y. Filed Sept. 26, 1932. Serial No. 634,809. 5 Claims. (Cl. 2—91.)



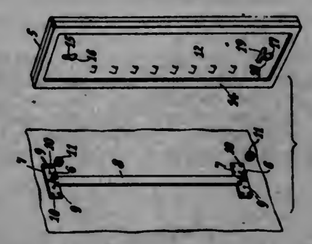
1. A process for manufacturing a scarf, consisting of securing pointed tips of lining material of a smaller size than the pointed tips of casing material along its sides upon the sides of the pointed tips of said casing material so as to cause the sides of the casing material to bend upwards, securing the sides of the casing together, placing a lining completely for the full length of said casing material and beneath said tips, turning said casing materials and lining tips inside out so that the lining is disposed therein and the sides of the casing material are displaced along the center line of said scarf, and securing the ends of the sides of said casing material upon said lining.

1,916,508. TURF RESTORATOR. FRANK GROSSI, Mamaroneck, N. Y. Filed Oct. 6, 1932. Serial No. 636,437. 3 Claims. (Cl. 111—1.)



1. In a turf treating device of the character described, in combination, a vehicle, turf cutting knives mounted beneath the vehicle and extending into the surface over which the vehicle travels, resilient means for permitting movement of said knives out of said surface when said knives encounter an obstacle, a container on said vehicle having a discharge opening adjacent said knives and means for closing said discharge opening when said knives are moved out of said surface.

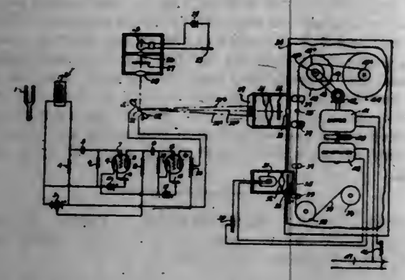
1,916,509. WALL CABINET MOUNTING. SAMUEL HAMMER, Brooklyn, N. Y., assignor to United Metal Box Co. Inc., Brooklyn, N. Y., a Corporation of New York. Filed Jan. 22, 1932. Serial No. 588,082. 1 Claim. (Cl. 312—112.)



An elongated cabinet adapted to be mounted upon vertically spaced studs projecting from the face of a wall, said cabinet including a rear wall having a vertically extending slot at its upper end to receive one of said studs,

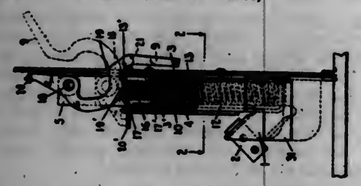
and said cabinet wall at its lower end being provided with an opening and a horizontal slot centrally communicating with the upper side of said opening to receive the other of said studs and to permit of the lateral adjustmen of the latter end of the cabinet relative to said stud, whereby the cabinet may be perpendicularly positioned upon the wall face when the studs are vertically disaligned.

1,916,510. ELECTRIC SYSTEM FOR RECORDING AND REPRODUCING SOUND. EDMUND H. HANSEN, New York, N. Y. Filed Oct. 25, 1927. Serial No. 228,597. 2 Claims. (Cl. 179—100.3.)



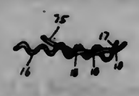
1. The method of photographically recording sound on moving film which comprises simultaneously affecting the film with sound modulated light, and a second light source the intensity and frequency of which varies with the speed of an alternator driven by the same source that drives the film.

1,916,511. HOOD LATCH. CHARLES HOLLERITH, Jackson, Mich., assignor, by mesne assignments, to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 2, 1931. Serial No. 527,098. 7 Claims. (Cl. 292—100.)



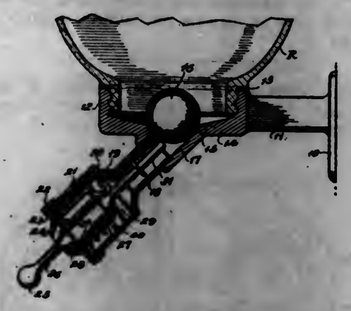
1. In hood latches, an automobile hood having an opening, a hook member attached to the inside of the hood, a handle pivoted to said hook member at a point located above said opening in the latched position and adapted to move therethrough during the latching and unlatching movements, said handle being shaped to have substantially the same clearance with the top of the opening in the latched and unlatched positions.

1,916,512. FIXED SIZE SPRING UNIT AND METHOD OF FORMING SAME. ROY S. JONES, Anderson, Ind., assignor to Barber Manufacturing Company, Anderson, Ind., a Corporation. Original application filed Jan. 16, 1932, Serial No. 587,106. Divided and this application filed July 23, 1932. Serial No. 624,231. 1 Claim. (Cl. 5—269.)



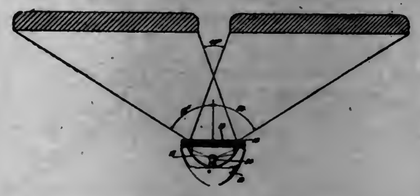
A spring unit of predetermined permanent length comprising a plurality of spring coils arranged in spaced and tandem relation and with their axes substantially parallel, a plurality of helices each having a plurality of coils interwoven with an end coil of each coil spring coil, the end of each helix terminating at an end coil spring, and a permanent connection between said end of the helix and the end coil of the end coil spring comprised of a plurality of corrugations in said end coil formed by mashing the helix end coils therein for nesting the end mashed coils of the helix in the corrugations.

1,916,513. DISPENSING DEVICE. TILMAN M. JONES, Huntington Park, Calif. Filed July 30, 1931. Serial No. 554,117. 8 Claims. (Cl. 221—94.)



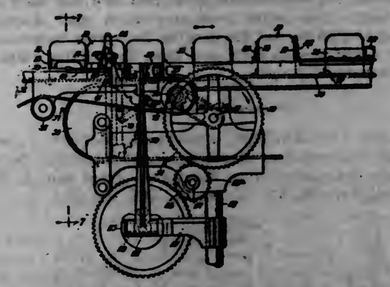
7. A dispensing device for use with a reservoir having an aperture in its bottom, including: a check ball for normally closing said aperture, a discharge tube extending downwardly from said bottom and communicating through said aperture with the reservoir, a valve seat at the outlet end of said discharge tube, a plunger in said tube and having a valve member to close said seat when said plunger is in its lower position and a stem thereon positioned on a line of movement eccentric to said ball whereby to eccentrically engage and displace said ball from said aperture when the plunger is in its upper position, a manually operable externally projecting member connected to said plunger for actuating the same, and a spring for normally urging said plunger into position for closing said valve seat.

1,916,514. AUXILIARY DRIVING LIGHT. JOHN L. KOUNEK, Anderson, Ind., assignor to Guide Lamp Corporation, Anderson, Ind., a Corporation of Delaware. Filed May 9, 1931. Serial No. 536,177. 2 Claims. (Cl. 240—41.4.)



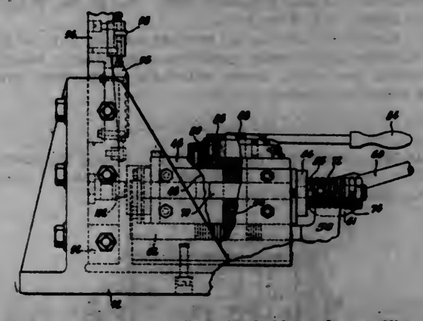
1. In a lamp having a light source, a lens provided on the side toward the light source with vertical prisms and on the side away from the light source with superimposed vertical concave flutes with vertical flats intermediate said flutes, each prism and its superimposed flute being substantially symmetrical with respect to a plane normal to the plane of the lens and connecting the apex of the prism with the center of curvature of the flute.

1,916,515. PACKAGE MAKING MACHINE. NORMAN KRAFT, Wilmette, Ill., assignor to Kraft-Phenix Cheese Corporation, Chicago, Ill., a Corporation of Illinois. Original application filed May 11, 1929, Serial No. 362,162. Divided and this application filed May 26, 1930. Serial No. 455,508. 11 Claims. (Cl. 93—7.)



1. In a machine for closing filled packages of material, said packages comprising an outer receptacle provided with end flaps and a top member, and a liner of sheet material in said receptacle, provided with flaps extending from each wall of the liner, the combination of a reciprocable pusher for effecting partial folding of one of said liner flaps, a pivoted folder for subsequently substantially completing the folding of said flap over and operative to press the flap against and to smooth the top of the contents of the package, means for folding the end flaps of the outer receptacle over the top of said contents and thereby incidentally folding the corresponding flaps of said liner, and means for subsequently folding the top member of said outer receptacle and the corresponding liner flap over the top of said contents to close said package.
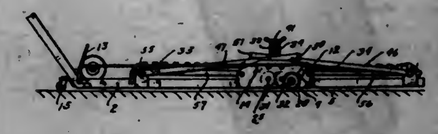
1,916,516. BROACHING MACHINE. CHARLES LANDERS, Lansing, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Original application filed Jan. 23, 1928, Serial No. 248,842. Divided and this application filed Nov. 20, 1929. Serial No. 408,494. 10 Claims. (Cl. 90—33.)



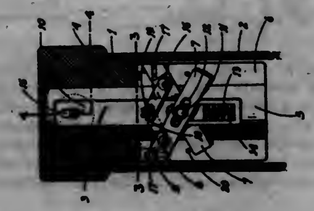
1. In a broaching machine for half bearing or like sections, cooperating clamping elements engageable with a section, a member movable relative thereto carrying cutting tools, and means for centering the section between the clamping elements prior to final clamping of the same, including elements mounted on said movable member.

1,916,517. LIFTING JACK. ELDRIDGE R. LONG, Troutdale, Oreg., assignor of one-half to Anthony Zeller, Troutdale, Oreg. Filed Sept. 20, 1932. Serial No. 633,977. 5 Claims. (Cl. 254—95.)

1. In a device of the class described, the combination of a chassis comprised of side, end and cross rail members, a platform disposed at one end of the chassis, a prime mover disposed upon the platform, a worm driven speed reducer adapted for being directly driven by the prime mover, a shaft driven by the speed reducer, a second speed reducer comprised of a worm and worm wheel adapted for being driven by the shaft, a plurality of parallelly disposed shaft journaled transversely of the chassis, one of said shafts being driven by one of the speed reducers, coacting gears disposed upon one of the pairs of shafts and adapted for driving one of the other of the shafts, companion sprockets disposed upon the respective shafts, pair of chains adapted to the sprockets and adapted for being driven thereby, cross bars of uniform length and cross sectional area, and uniformly spaced apart secured to the chain, a like number of cross bars having lugs outwardly extending therefrom disposed between the last mentioned cross bars and of greater length than the first mentioned cross bars, a yoke secured to one of the free ends of the pairs of chains, saddle superposed upon the yoke and journaled relative thereto, and means disposed in the side walls of the chassis adapted to form guides for the chain and for folding the chain thereupon and in a definite prearranged position.



1,916,518. TANK FILLER-CAP LOCK. WILLIAM P. LOWTHER, Merced, Calif. Filed July 5, 1932. Serial No. 620,783. 5 Claims. (Cl. 70—90.)



1. In a cap and lock structure for tubular outlets which includes a body to depend into and form a self-supporting cover over the outlet, arms having tongues on their outer ends to engage the inner wall of the outlet, means pivoting said arms intermediate their ends in the body, the arms having a downward slant from their upper ends, and means to move the lower ends of the arms downwardly whereby they will turn on their pivots and their upper ends will move inwardly and upwardly; means included in part with the pivot mounting means and with the arm moving means to cause the upper ends of the arms to be retracted in a direct inward direction before any raising of the same takes place.

1,916,519. CARTON FOR CYLINDRICAL OBJECTS. ALFRED W. MADSEN and SAMUEL D. GARSOLO, Joliet, Ill., assignors to National Carbon Company, Joliet, Ill., a Corporation of Illinois. Filed July 20, 1931. Serial No. 551,880. 4 Claims. (Cl. 229—21.)

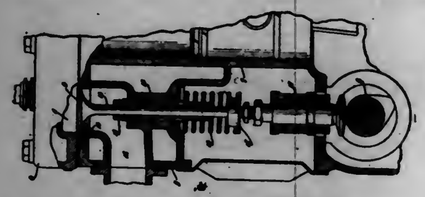
1. A carton having a body adapted to be wrapped around a cylindrical object, and a flange formed at the margin of the body, said flange being semi-flexible and

having a plurality of spaced prefermod transverse scores, whereby it may be manually turned inwardly after the cylindrical object has been inserted, to form an abutment



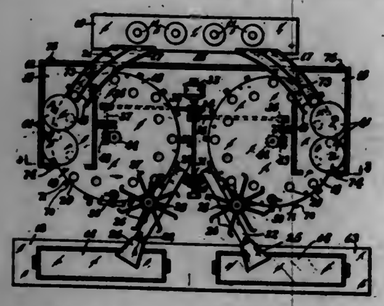
for preventing the escape of said object, the flange being of sufficient stiffness to maintain itself in abutting position.

1,916,520. VALVE GUIDE. WILLIAM H. MANNING, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 30, 1931. Serial No. 526,373. 13 Claims. (Cl. 123—188.)



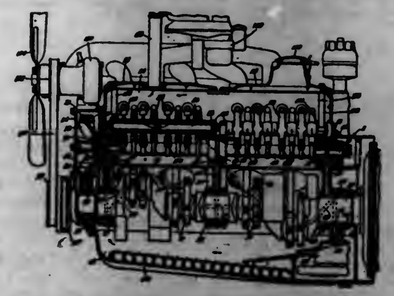
1. A valve assembly wherein a reciprocatory valve element is movable into and out of engagement with a seat and is guided in its movement by the slidable engagement of a part thereof with a bearing element, characterized by bearing surfaces on the valve and bearing respectively, which differ in taper relative to each other to provide a gradual change in clearance therebetween.

1,916,521. ICE CREAM DISPENSER. ARTHUR D. MARROS, New York, N. Y. Filed July 30, 1932. Serial No. 626,629. 10 Claims. (Cl. 186—1.)



1. In an ice cream dispenser, a back counter, a front counter, a dispenser casing between said counter, a display and a carrier disc rotatively mounted in said dispenser casing and partially viewable from the front and having apertures for receiving dishes of ice cream and dummy dishes of ice cream, a loading chute extending from the back counter and terminating on the top of said display and carrier disc, a conveyor from one side of said display and carrier disc discharging on to said front counter, means for rotating said display and carrier disc, means for moving ice cream containers from said disc upon said conveyor, syrup tanks supported upon said dispenser casing, and means for discharging the syrup upon the ice cream containers as they pass from the loading chute to the discharge conveyor.

1,916,522. V-8 ENGINE. CHARLES L. MCCUEN, Lansing, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 4, 1930. Serial No. 418,559. 5 Claims. (Cl. 184—6.)

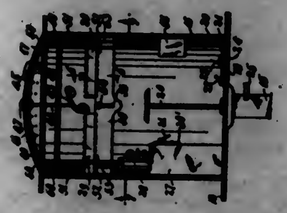


1. In a force feed lubricating system for internal combustion engines having a crankcase, a crankshaft and a hollow camshaft, a crankshaft bearing in the crankcase, an oil pump, means for conducting the oil to said camshaft bearing, means in the crankcase for conducting the oil from said bearing to the interior of the camshaft, and means for conducting oil from the interior of the camshaft to the other crankshaft bearings.

1,916,523. LEATHER PRESERVATIVE AND PROCESS OF APPLYING SAME. CHARLES S. MCNOWN, Bunker Hill, Ind. Filed Dec. 16, 1929. Serial No. 414,569. 6 Claims. (Cl. 149—6.)

1. A solution suitable for treating leather, and the like to increase its wearing qualities comprising a solution including gum copal oleate aluminum, turpentine japan and asbestine powder.

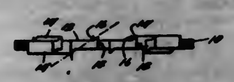
1,916,524. PROTECTION BOOTH. JAMES W. MOORE, West New York, N. J. Filed May 20, 1931. Serial No. 538,734. 5 Claims. (Cl. 89—36.)



1. A protection booth for location in a bank, comprising a bullet-proof container having a plurality of apertures formed in its top and having window openings closed by transparent material, a disc movably mounted in the top of the booth and having apertures alignable with the apertures in the top of the booth for closing them in a certain position, a guard movably mounted within the booth for assuming a position behind the transparent

windows, and a means for simultaneously moving the guard to its closed position and moving the disc to a position in which it closes the apertures in the booth.

1,916,525. LOCK WASHER. CARL G. OLSON, Chicago, Ill., assignor to Shakeproof Lock Washer Company, Chicago, Ill., a Corporation of Delaware. Filed July 31, 1930. Serial No. 471,972. 5 Claims. (Cl. 151—35.)



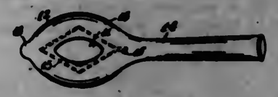
1. A lock washer including an annular body formed from resilient material, and a plurality of resilient prongs provided along at least one of the margins of said body, each prong having an acute work engaging toooth along one margin thereof and projecting out of the plane of the body in a given axial direction and a corresponding acute work engaging tooth on the other margin and projecting in an opposite direction out of the plane of the body, a portion at least of the transverse marginal surfaces of each prong extending substantially parallel with the axis of the washer and merging with the work engaging corner of a companion tooth, said teeth being adapted to set up a strutting action when the washer is tightened between clamping surfaces.

1,916,526. LOCK WASHER WITH KEYS. CARL G. OLSON, Chicago, Ill., assignor to Shakeproof Lock Washer Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 6, 1930. Serial No. 473,828. 3 Claims. (Cl. 151—32.)



2. A lock washer of the class described including an annular body portion, locking teeth extending out of the plane thereof, and a single locking element extending out of the plane of the washer which is adapted to interlock with a work piece and screw for securing said lock washer against relative rotation with respect thereto.

1,916,527. INFLATABLE TOY BALLOON WITH OPENINGS. FRANK B. PASTIR, New York, N. Y. Filed Apr. 8, 1932. Serial No. 603,913. 6 Claims. (Cl. 46—53.)



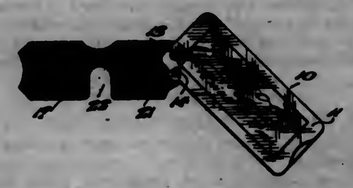
1. An inflatable balloon with openings, comprising material in the shape of an inflatable balloon having a transverse opening, and means for forcing the opening to assume a shape other than its natural shape when the balloon is inflated.

1,916,528. SPRAY EXTRACTOR. GWYNNE RAYMOND, Kansas City, Mo. Filed Aug. 31, 1931. Serial No. 560,375. 2 Claims. (Cl. 183—2.7.)

1. In a spray extractor, a rectangular casing having one open side, a U-shaped housing located within said casing and having its open end directed toward and spaced from the closed side of said casing, a plurality of vertical laterally spaced plates located within said casing and parallel to said housing, said plates being spaced from the closed side of said housing, a plurality of vertical baffles carried by opposite faces of said plates and adjacent faces of the vertical walls of the casing and the housing, said baffles arranged to form forwardly open pockets, and sinuous gas passageways between said plates and walls, a gas chamber formed in said casing to the rear of said plates and in said housing, means for conducting liquid from said casing, and means for conducting gas from said chamber.

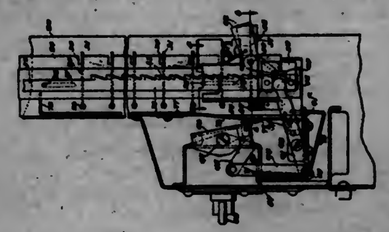


1,916,529. OPTICAL ADVERTISING DEVICE. JOHN J. REINHOLD, Marietta, Pa. Filed July 10, 1931. Serial No. 549,917. 6 Claims. (Cl. 88—1.)



1. An optical device comprising a cover member forming a handle, a plurality of transparent color screens pivoted to said member to swing parallel thereto from a position concealed by said cover to an exposed position for use in front of both eyes of the user, and means to limit the relative movement of each screen with respect to said handle.

1,916,530. VENDING MACHINE. MYRON H. RICHARDSON, Chicago, Ill., assignor to Advance Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 3, 1930. Serial No. 499,629. 14 Claims. (Cl. 312—94.)

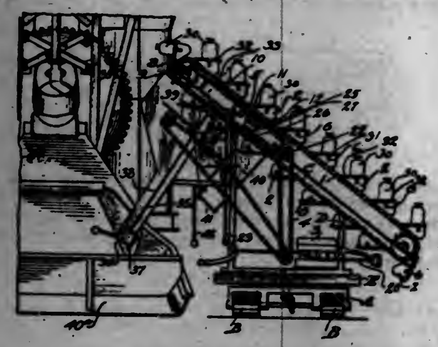


1. In a vending machine, plurality of article supports mounted for swinging movement about fixed pivots, locking means for maintaining them against such movement, and means for successively and bodily shifting said supports in directions lengthwise of their pivots to render the respective locking means inactive to permit the supports to swing about their pivots.

1,916,531. CEMENT LOADER, BAG COUNTER, AND INDICATOR FOR BATCH MIXING APPARATUS. JOHN F. ROSS, Cleveland Heights, Ohio. Filed Oct. 22, 1925, Serial No. 64,229. Renewed Dec. 1, 1932. 19 Claims. (Cl. 198—39.)

1. In a machine of the class described, in combination, a device for elevating bags of cement, operating means therefor, and means controlling said operating means so

that the elevating device will carry a predetermined number of bags of cement to a dumping point, then stop, the predetermined number of bags carried to the dumping point representing a measured batch for a batch of con-



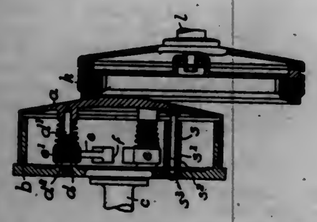
crete aggregates, and means cooperating with said elevating device for counting the measured batches handled thereby, and means for counting each bag of cement brought to the dumping point by the elevating device.

1,916,532. CONVEYER MECHANISM. FRANK B. ROBERTS and WILLIS G. HUNTINGTON, Anaheim, Calif., assignors to Food Machinery Corporation, San Jose, Calif., a Corporation of Delaware. Filed Mar. 13, 1929. Serial No. 346,617. 15 Claims. (Cl. 198—21.)



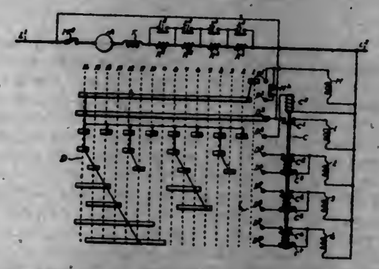
1. In a conveyer system, the combination of a main conveyer line, a lateral conveyer line including two sections, one of said sections being adapted to feed onto said main line and the other of said sections being adapted to feed onto said first named section, means for continuously driving said first named section, and means actuated by an article on the main conveyer line for intermittently operating the other section.

1,916,533. VARIABLE SPEED FRICTION GEARING. JOHN HOGG ROBERTSON and LEONARD GUTTERIDGE, London, England. Filed Aug. 20, 1931, Serial No. 558,266, and in Great Britain Sept. 12, 1930. 4 Claims. (Cl. 74—26.)



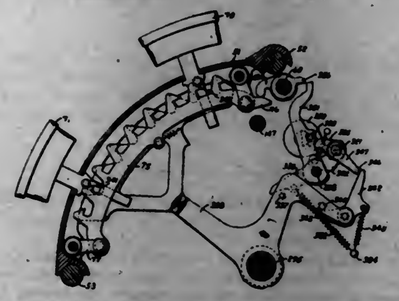
1. In variable speed friction gearing comprising a rotary driving member having a part-conical face, and a driven member adapted to make face contact with said driving member in positions of varying relative eccentricity, the combination of a centrifugal governor rotating with said driving member, and yielding spring means for exerting pressure upon said driving member to cause its axial displacement into engagement with said driven member, said yielding spring means compressed by operation of said centrifugal governor and pressing directly against said driving member.

1,916,534. RESISTANCE CONTROLLER. EDWIN W. SEEGER, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware. Filed June 7, 1929. Serial No. 369,096. 1 Claim. (Cl. 201—48.)



In combination, a plurality of resistance sections to be included in or excluded from a circuit, said resistance sections being so proportioned, that the ohmic value of each section is equal to substantially twice the ohmic value of the immediately preceding section, and means for commutating said sections in predetermined sequence, whereby resistance gradations of equal value corresponding in number to twice the ratio of ohmic values of the last section to the first section may be obtained, said means comprising a plurality of electromagnetically operable switches each adapted to control one of said resistance sections, an electroresponsive relay having contacts in circuit with the operating windings of said plurality of electromagnetically operable switches and a master switch having contacts in circuit with the operating windings of said plurality of electromagnetically operable switches and having additional contacts in circuit with the operating winding of said relay, said master switch contacts affording selection of said electromagnetically operable switches for different commutations of said resistance sections and said relay being energized and deenergized by said master switch according to the position of the latter to execute the selections made by said master switch in respect of said electromagnetically operable switches and to render transitions substantially instantaneous.

1,916,535. CASH REGISTER. BERNIS M. SHIPLEY, Dayton, Ohio, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed July 9, 1925. Serial No. 42,458. 37 Claims. (Cl. 235—130.)



1. In a normally locked machine of the class described, the combination of a totaliser, a manipulative device

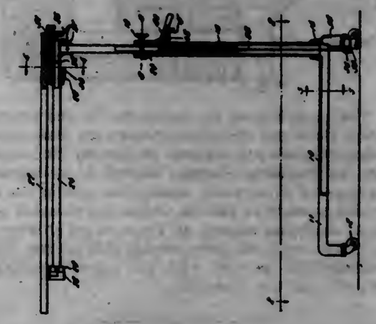
adapted to release the machine for entering amounts into the totaliser when the totaliser is standing at zero or has an amount accumulated thereon, a manipulative device adapted to release the machine for entering amounts into the totaliser when the totaliser has been overdrawn, a manipulative device adapted to release the machine for subtracting amounts from the totaliser when the totaliser is standing at zero or has an amount accumulated thereon, and means for determining the effectivity of all of said devices under control of said totaliser.

1,916,536. CONSTRUCTION, RELATIVE TO FRAMES. LIONEL L. SLAVIN, Brooklyn, N. Y., assignor of one-half to Saul Robinson, Brooklyn, N. Y. Filed July 8, 1931. Serial No. 548,541. 1 Claim. (Cl. 40—132.)



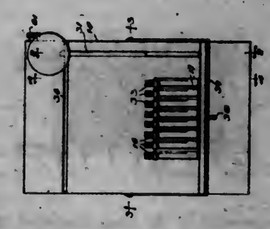
A compound-frame for illuminating advertising matters comprising, in combination, three individual frame-members arranged one inside of the other, each of said frame-members forming a completely closed and independent unit by itself, and the different frames in consecutive order from the circumference towards the centre of the compound-frame consisting alternately of non-transparent and transparent materials, the outer frames being formed with curvatures upon their inner sides for engaging and securing the center frame-member, the sides of the latter being of a cylindrical shape in cross-section, the front contours of the said frame-members lying in the same imaginary plane.

1,916,537. BED SIDE TABLE. LE ROY SMITH, Springfield, Mo. Filed July 20, 1931. Serial No. 551,988. 5 Claims. (Cl. 45—111.)



1. A table of the character described comprising in combination a carriage, a cross bar carried thereby, a plurality of relatively spaced sleeves mounted on said cross bar, spring pressed plungers arranged in said sleeves and normally urged downwardly, a bar connecting said plungers, and means on said bar for frictional contact with the ground, and manual means for retracting said plungers, said last mentioned means including a tubular standard rising from the carriage, a lever pivotally mounted on said standard, a link connecting said lever with the bar connecting said plungers, and latch means for locking said lever against swinging movement.

1,916,538. CHECK PROTECTOR. RAY C. SMITH, Chicago, Ill., assignor of one-half to Edith A. Boydston, Chicago, Ill. Filed Nov. 7, 1930. Serial No. 494,009. 17 Claims. (Cl. 101—20.)



1. In a device of the kind described the combination of a plurality of pivoted type bars, means for moving said type bars, a plurality of setting elements movable to various positions of angularity with which said type bars cooperate, means for locking said setting devices in adjusted position, said setting devices having stops provided therein with which said type bars engage to limit movement of said type bars, a platen, and means for moving the platen into printing relation with said type bars.

1,916,539. PROCESS OF TREATING COAL AND COKE. GEORGE P. SPENCER, New York, N. Y. Filed Dec. 11, 1929. Serial No. 413,424. 14 Claims. (Cl. 44—6.)

7. In a process of treating solid fuel the part process, consisting in applying to said fuel a solution of ligno-sulfonic acid substantially in the proportion of one part of said acid and three parts of water, said solution being enriched by the addition thereto of suitable coloring matter for restoring the color to badly discolored fuel.

9. In a process of treating solid fuel, the part process of applying to said fuel an emulsified coating to improve the combustible efficiency of said fuel, said coating consisting of a liquid ligno-sulfonic solution, and one part of oil to ten parts of said solution.

12. A process for treating coal, coke and similar fuel for rendering the fuel clean and dustless, said process comprising coating said fuel with a water solution of ligno-sulfonic acid; and causing said solution to dry, leaving the material covered with a dry coating which is dustless and clean and does not soil the hands.

14. A fuel comprising carbonaceous fuel coated with dried lignin liquor.

1,916,540. CLASP. ALLEN D. STRAHM, Tulsa, Okla., assignor to Snapplea, Inc., Tulsa, Okla., a Corporation of Oklahoma. Filed Apr. 28, 1932. Serial No. 607,986. 20 Claims. (Cl. 24—248.)



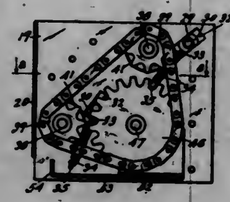
3. A clasp comprising, a pair of hinged clamping jaws, a hanger connected with the jaws for supporting and operating said jaws to open and close them, and a lever having means at one end for receiving and frictionally and rigidly holding thereto the hanger and for swinging said hanger to operate the jaws.

1,916,541. MARKER FOR FRUIT BRUSHING MACHINES. ALBERT R. THOMPSON, San Jose, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a Corporation of Delaware. Filed Mar. 30, 1931. Serial No. 526,330. 7 Claims. (Cl. 198—127.)
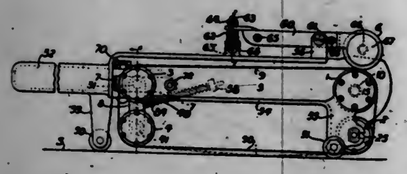


1. In an apparatus of the class described, the combination with a plurality of rotatable supporting members disposed in parallel relationship to form an article supporting runway of a marking element freely supported by said members transversely of the runway for advancement thereover.

1,916,542. TOWEL CABINET. JAMES E. TREWHITT, Oakland, and JOSEPH N. BORDOGNIS, Piedmont, Calif., assignors to Oakland-California Towel Company, Oakland, Calif., a Corporation of California. Filed Oct. 23, 1931. Serial No. 570,656. 2 Claims. (Cl. 312—38.)



1. A towel cabinet control mechanism comprising two pairs of cooperating rolls, each pair consisting of a master roll and an idler roll, means for urging said idler roll to cooperate with said master roll, a chain, a sprocket secured to one end of each master roll, a master sprocket cooperating with said sprockets through said chain, a stop lug on said master sprocket and a cam member slidably mounted and adapted to be moved out of engagement with said lug by means of a push button and to be moved by said lug into position for engaging said lug on completion of one revolution of said master sprocket.

1,916,543. PORTABLE SANDER TOOL. GEORGE D. WELCH, Hoquiam, Wash. Filed June 18, 1930. Serial No. 461,907. 12 Claims. (Cl. 51—170.)



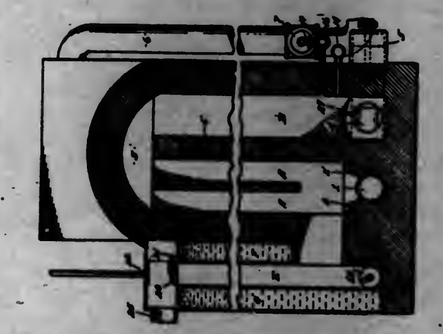
1. In combination with a sander belt, longitudinally spaced idling and driving rollers carrying the belt, a frame from which said rollers are supported, two of the idling rollers at one end of the frame comprising a pair, means for aligning the idling pair with the driving roller, at the opposite end, and means for yieldably supporting one roller of the pair to permit its movement towards the driving roller when the sander belt is deflected.

1,916,544. WINDSHIELD WIPER ARM CONSTRUCTION. JOHN B. WHITTED, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a Corporation of Virginia. Filed May 9, 1932. Serial No. 610,023. 6 Claims. (Cl. 15—225.)



1. In a windshield wiper construction, a driving shaft, a cross pin carried by the shaft adjacent its end, a wiper arm having a U-shaped portion receiving the shaft end and pivoted on said cross pin, and a tension spring connected to the shaft and wiper arm.

1,916,545. APPARATUS FOR THE THERMAL DISSOCIATION OF HYDROCARBON GASES AND VAPORS. WILLIAM D. WILCOX, Lawrence, Kans. Filed Apr. 12, 1930. Serial No. 443,903. 12 Claims. (Cl. 134—60.)

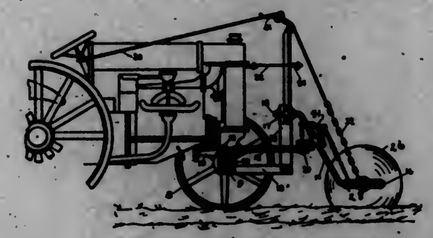


12. The improvement in apparatus for the production of carbon black and hydrogen through the dissociation of hydrocarbon gases and vapors effected by their passage through an enclosing chamber heated to a dissociating temperature by a precedent combustion within the chamber, which consists in placing within the chamber refractory heat absorbing masses, all the surfaces of which that are in contact with the gases passing through the chamber are substantially parallel with the general direction of gas flow through the chamber.

1,916,546. TRACTOR GUIDE. FRED L. WILLRODT, Omaha, Nebr., assignor to The Willrodt Tractor Guide Company, Omaha, Nebr., a Corporation of Nebraska. Filed July 19, 1930. Serial No. 469,143. 15 Claims. (Cl. 97—49.)

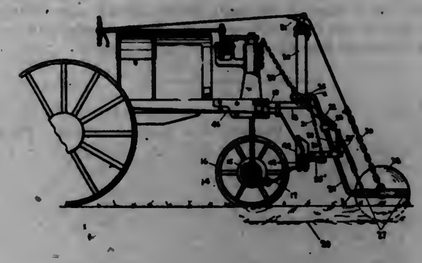
1. In a steering attachment for tractors, a steering arm connected with the steering mechanism of the tractor, a rock-bar normally disposed in a vertical plane at the front and mounted on the tractor to permit swinging movements of its lower end transversely to the line of draft, a control-bar mounted on the rock-bar and connected with the steering-arm, a swing-bar mounted pivotally at its inner end upon the lower end of the rock-bar

and provided at its outer end with a guide for engaging in a furrow, means on the swing-bar and rock-bar for adjusting the swing-bar for disposing the guide at se-



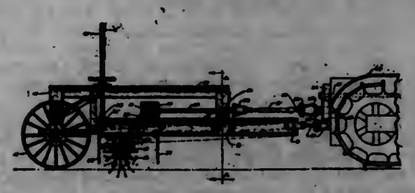
lected distances from the rock-bar, said swing-bar being movable to actuate the rock-bar, said control-bar, the steering-arm and steering mechanism of the tractor.

1,916,547. TRACTOR GUIDE. FRED L. WILLRODT, Omaha, Nebr., assignor to The Willrodt Tractor Guide Company, Omaha, Nebr., a Corporation of Nebraska. Filed Aug. 4, 1930. Serial No. 472,871. 12 Claims. (Cl. 97—49.)



1. In a guide for a tractor having a steerable axle, a steering arm rigidly mounted on the steerable axle of the tractor, a rock-bar normally pivotally connected with the steering arm and mounted on the tractor to permit lateral swinging movements, and an operating-bar mounted on the rock-bar and having a guide to engage in a furrow for moving the operating-bar, the rock-bar and said steering arm, said guide being adjustable to an inoperative position and said rock bar being flexibly and resiliently connected with said steering arm to permit independent movement of the latter when said guide is in such position to permit normal steering of said steerable axle.

1,916,548. EARTH SURFACE MIXER. CLYDE W. WOOD, Stockton, Calif. Filed Feb. 21, 1931. Serial No. 517,547. 4 Claims. (Cl. 259—144.)



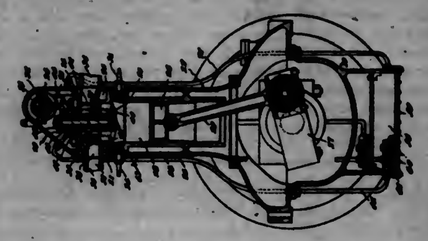
1. An earth surface mixer comprising a wheel supported frame, another frame pivoted on the front portion of the first mentioned frame, said second mentioned frame extending underneath the top of the first mentioned frame and toward the rear end portion thereof, an agitator for mixing soil revolubly mounted on the second mentioned frame, a threaded rod pivotally mounted on the rear end portion of the second mentioned frame and adapted to vertically extend above the top of the first mentioned frame, means for operatively connecting the agitator to a motor drive shaft, and threaded means adapted to engage with the threaded rod and to be revolubly supported on top of the first mentioned frame to raise and lower the rear portion of the second mentioned frame to vertically adjust the agitator to different positions.

1,916,549. HEAT TRANSFERRING UNIT. FRED M. YOUNG, Racine, Wis. Filed Nov. 14, 1932. Serial No. 642,533. 9 Claims. (Cl. 257—137.)



2. A heat transfer unit, comprising a plurality of suitably shaped tubes, a plurality of fins closely spaced and intimately bonded to said tubes, suitable headers and means for circulating heated liquid through said tubes and headers, means for moving an air current between said tubes and fins, said tubes and fins positioned at angles to the normal direction traveled by the air current, thereby to cause the air to impinge said fins and tubes and discharge the heated air downward and sidewise, as and for the purpose specified.

1,916,550. INTERNAL COMBUSTION ENGINE. VICTOR F. ZAHODIAKIN, Cincinnati, Ohio, assignor to The Stanwood Corporation, Cincinnati, Ohio, a Corporation of Ohio. Filed May 14, 1931. Serial No. 537,373. 9 Claims. (Cl. 123—81.)



1. In an internal combustion engine, comprising, a cylinder block, a cylinder head having inlet and exhaust ports for each cylinder, an oscillating valve for each cylinder adapted to cover and uncover said ports, means for operating said valves, a pump for supplying oil to said cylinder head, conduits extending from said pump to the seating surfaces of the valves and said valves having tubular stems and ports adjacent the heads thereof for connecting the oil supply at the seating surfaces of the valves to the interiors of the stems thereof.

1,916,551. METHOD OF REMOVING IMPURITIES FROM GAS. JOSEPH W. BARTLETT, Dallas, Tex. Filed Sept. 2, 1930. Serial No. 479,256. 7 Claims. (Cl. 22—3.)

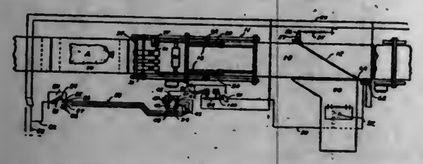
7. The hereindescribed process for the removal of H_2S from gas which consists initially in continuously forcing

said gas under its own pressure through a storage of Na_2CO_3 solution to obtain an atomized mixture to be held in suspension during transit of the gas to a point of exit,



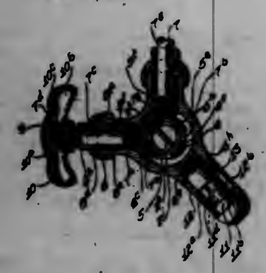
in baffling off the solution from the gas and in returning the solution by gravity to storage for recirculation or regeneration.

1,916,552. CONVEYER SYSTEM. ALBERT L. BEACH, Syracuse, N. Y., assignor to The Lamson Company, Syracuse, N. Y., a Corporation of Massachusetts. Filed Sept. 20, 1929. Serial No. 393,928. 3 Claims. (Cl. 209—121.)



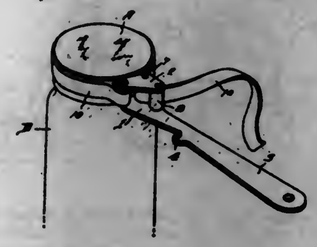
1. A conveyer system of that type in which articles are automatically sorted into classes during transit along a predetermined path said system comprising a scale beam and a freely suspended and counterbalanced scale platform, means for delivering the articles to and removing them from the scale platform, a plurality of weights with which an element of the scale beam comes into contact successively as the scale platform descends in response to load, two groups of electrical contacts, conductors connecting corresponding contacts of each group, a movable circuit closing arm adapted to engage the contacts of one group, means connecting said arm with the scale beam so that as the scale platform descends said arm will successively engage the contacts of its group, a manually actuated selector arm engageable with any of the contacts of the other group, an electrical circuit including said circuit closing arm, switch arm and a selected one of said conductors, means operative upon closure of said circuit through any of said conductors for diverting an article in transit from its normal path, and means operative to delay closure of said circuit as the circuit closing arm momentarily engages any of its group of contacts in passing from one contact to another.

1,916,553. FAUCET. MARTIN C. BERSTED, San Diego, Calif. Filed May 23, 1929. Serial No. 365,314. 9 Claims. (Cl. 137—111.)



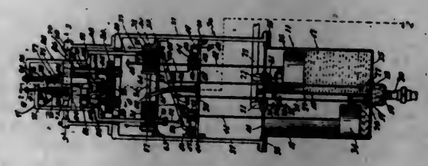
7. In a faucet, a valve housing, a pair of valves supported therein and a shiftable valve body provided with valve openings, the number thereof being in excess of the number of valves, said valves being adapted to register with any pair of said valve openings.

1,916,554. WRENCH FOR SCREW CAPS OF JARS AND BOTTLES. JOHN E. BEVINGTON, Cleveland, and BRENNAN B. WEST, Cleveland Heights, Ohio. Filed Apr. 25, 1931. Serial No. 532,782. 4 Claims. (Cl. 81—3.)



1. A cap wrench comprising a lever, a flexible member having one of its ends anchored thereto, and two spaced elements carried by the lever and between which a part of said member is adapted to be clamped, the portion of the member between said part and its anchored end constituting a loop that is adapted to be engaged about a cap, the aforesaid elements being spaced one further than the other from the cap, the one nearest the cap being movable toward and from the other.

1,916,555. LIQUID FUEL CONSUMPTION INDICATOR. CLAUDE C. BROWN, Los Angeles, Calif. Filed Nov. 30, 1927. Serial No. 236,739. 16 Claims. (Cl. 235—1.5.)

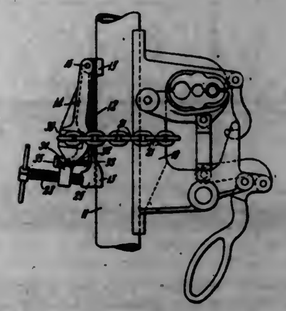


1. A liquid fuel indicator comprising in combination means to flow unit quantities of fuel alternately from two tanks to a consuming device by a common means, a plurality of indicators, means to drive each indicator alternately from a power device connected to moving machinery, means to stop one indicator to give an indication of the rate of consumption of fuel, and means to actuate the other indicator while one quantity of fuel is flowing to the consuming device.

1,916,556. CLAMP. HERBERT G. BUTT, Winthrop, Mass. Filed June 24, 1932. Serial No. 619,045. 9 Claims. (Cl. 81—41.)

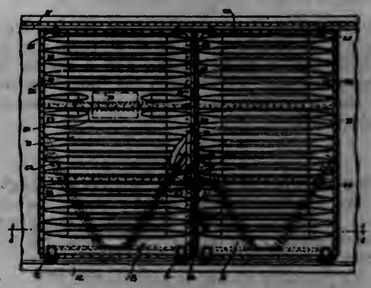
1. A clamp adapted to bind two bodies together, said clamp comprising a jaw formed to bear on one of said bodies, a straining member movably connected with the jaw and having a clutch part, an elongated inextensible ligature having a configuration adapting it to be interlocked with said clutch part, the ligature being fixed at one end to the straining member, and having a free portion adapted to be wrapped around said bodies and interlocked with said clutch part to provide the ligature with

an inextensible girdle portion bearing on the straining member and on the other of said bodies, and means for forcibly adjusting the straining member outward from the



jaw and maintaining it in any adjusted position, to strain said girdle portion and cause it to forcibly bind said bodies together.

1,916,557. CAR DOOR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed July 5, 1929. Serial No. 375,917. 14 Claims. (Cl. 189—46.)



1. In a sliding car door of the character described, the combination with a body portion including metallic paneling and a plurality of vertical marginal members respectively disposed on the inner and outer sides of said paneling and secured thereto; of an independent vertical beam element positioned inwardly away from said marginal members; and bracket means interposed between and secured to said body portion of the door and the beam element, whereby said body portion of the door and the beam element cooperate to form a trussed construction adapted to resist bending of the door.

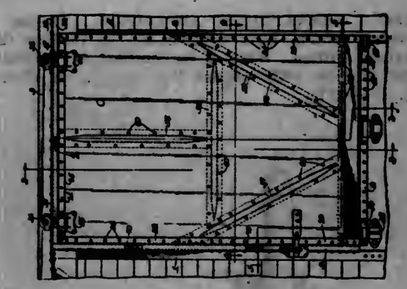
1,916,558. CAR DOOR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed July 5, 1929. Serial No. 375,918. 9 Claims. (Cl. 189—46.)

1. In a door construction of the character described, the combination with a main sliding door and an auxiliary sliding door, said auxiliary door including a main body portion and a marginal reinforcing member secured to said door and having a transversely extending wall adapted to cooperate with the main door; of bracket members secured to said transverse wall and the body portion of the door and extended beyond said transverse



wall; and a nailing block mounted on and secured to said brackets independently of and beyond the end of said transverse wall.

1,916,559. SIDE DOOR FOR RAILWAY CARS. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 12, 1931. Serial No. 521,941. 11 Claims. (Cl. 189—46.)

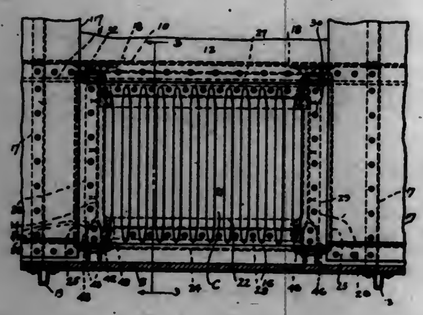


10. In a door for railway car, the combination with frame members defining the margins of the door and including vertical marginal members and upper and lower marginal members; of reinforcing means for the door including a plurality of bracing members, two of the said bracing members being secured to the vertical and lower marginal frame members and disposed diagonally in V relation to each other to reinforce the lower portion of the door and other bracing means for reinforcing the upper part of the door, said last named bracing means including bracing members arranged in angular relation to each other and to the V shaped members and having a point of attachment with each of the diagonal members.

1,916,560. LOAD DISCHARGING CAR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 15, 1931. Serial No. 568,998. 10 Claims. (Cl. 105—280.)

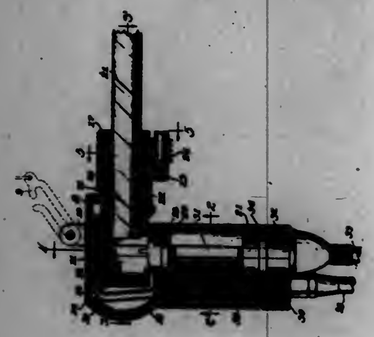
1. In a movable discharge door adapted to be pivotally mounted adjacent one edge thereof, the combination of supporting means adjacent the opposite edge of the door; means adapted to bridge as a unitary structure the distance between said supports and the pivotal mounting, said means including a hinge beam of substantially

Z-shape having a flange section underlying the door and secured thereto and having the other flange spaced away from the door with the web of the Z extending substantially normal to the plane of the door; a beam extending adjacent the free edge of the door in angular relation



with respect to said hinge beam, said beam being of substantially Z-shape with one flange secured to the door and having the adjacent flange extended into overlapping relation and above the spaced flange of the Z-shaped hinge beam and secured thereto.

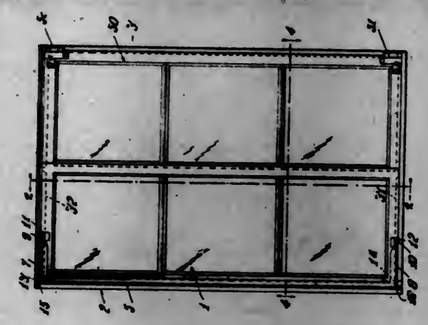
1,916,561. THERAPEUTIC APPLIANCE. GEORGE E. CROSLEY, Milton, Wis., assignor to The Burdick Corporation, Milton, Wis., a Corporation of Delaware. Filed Jan. 18, 1929. Serial No. 333,342. 11 Claims. (Cl. 174—177.)



1. A therapeutic appliance comprising, an element for generating red and infra-red rays, a chamber for housing the element, a conductor in the form of a quarts rod extending into the housing, a holder for the quarts rod carried by the housing, and means for adjusting the conductor so that the distance between the element and the end of the conductor proximal to the element may be varied, thus regulating the intensity of radiation available at the distal end of the conductor.

1,916,562. CASEMENT WINDOW OPERATOR AND LOCK. WILLIAM E. DRUMMOND, River Forest, Ill. Filed Sept. 30, 1929. Serial No. 396,376. 12 Claims. (Cl. 268—118.)

1. In a casement window frame, a sash, and means for mounting the sash on said frame for swinging movement about a plurality of axes and means for adjusting the position of the sash, said last mentioned means in-



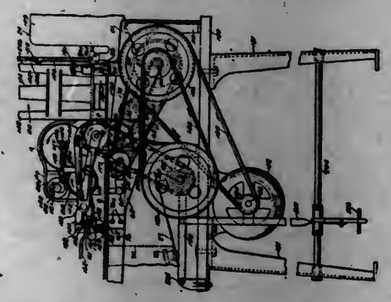
cluding a member acting as a stop and abutting against said sash for limiting the movement of said sash about one of said axes.

1,916,563. CONSTRUCTION OF CONCRETE PAVEMENTS. WALTER S. EDGE, Pittsburgh, Pa., assignor to National Steel Fabric Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 14, 1928. Serial No. 326,117. 3 Claims. (Cl. 94—39.)



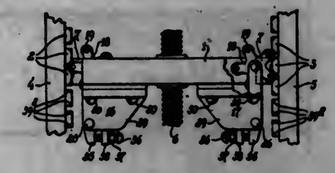
1. Apparatus for producing a joint in concrete, comprising a supporting framework to be positioned over a concrete surface, a guide member, and means for loosely supporting the said member upon the framework for vertically sliding movement to permit said member to rest upon the concrete.

1,916,564. ADDRESSING AND PRINTING MACHINE. HARMON P. ELLIOTT, Watertown, Mass., assignor to Elliott Addressing Machine Company, a Corporation of Massachusetts. Filed Nov. 2, 1931. Serial No. 572,480. 5 Claims. (Cl. 101—49.)



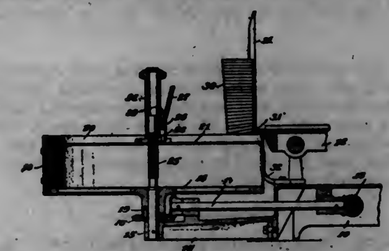
1. In an addressing machine employing stencils and provided with laterally adjustable grooved guides along which said stencils may be fed, the combination, with said above described apparatus, of means for locating and holding said guides in one or another position of adjustment, which comprises a latch pivoted to one guide and having a plurality of notches in one edge thereof, and a pin set in the other guide adapted to engage one or the other of such notches.

1,916,565. CIRCUIT CONTROLLING DEVICE. CLARENCE T. EVANS, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 7, 1931. Serial No. 579,450. 9 Claims. (Cl. 200—146.)



1. In a circuit controlling device, in combination, a plurality of fixed contacts arranged in spaced parallel relation to each other, a contactor movable progressively into and out of bridging engagement with successive pairs of said contacts, and an auxiliary contacting device carried by said contactor and movable therewith, said contacting device comprising a wheel having a plurality of radial spokes, roller contact members rotatably carried adjacent to the outer extremities of said spokes, said wheel being rotatable simultaneously with movement of said contactor in a given direction to effect insertion of the respective roller contact members successively between the contacts of each pair prior to bridging thereof by said contactor, said wheel being also rotatable during movement of said contactor in the opposite direction to effect withdrawal of the respective roller contact members successively from between the contacts of each pair subsequent to movement of said contactor out of bridging engagement with the latter.

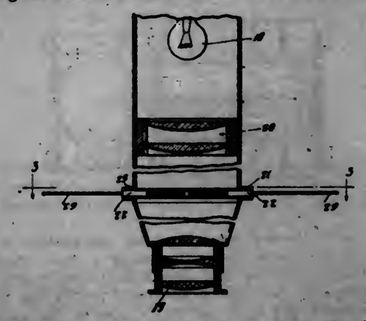
1,916,566. ASSEMBLING DEVICE FOR SLICING MACHINES. JOSEPH FOLK, La Porte, Ind., assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed Dec. 2, 1927. Serial No. 237,134. 31 Claims. (Cl. 146—94.)



1. The combination with a slicing machine, of a slice receiver, means for rotating said receiver about an upright axis to bring a portion thereof recurrently into slice receiving position adjacent said knife, means for deflecting the slices broad side down directly onto said receiver as said slices are cut, means for feeding said receiver downwardly to accommodate successive slices, and means for adjusting the position of the slice receiver to bring other portions of said slice receiver into slice receiving position.

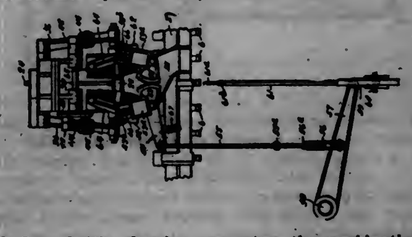
1,916,567. APPARATUS FOR PRODUCING LIGHT BOUNDARIES. EDWIN J. GRANT, Los Angeles, Calif. Filed Apr. 1, 1929. Serial No. 351,692. 3 Claims. (Cl. 88—24.)

1. In an apparatus for producing light boundaries on material for cutting, the combination of a housing provided with a light source and an aperture, a frame held by said housing between said light source and aperture, said frame lying in a plane transverse to the path of light from said source to said aperture, said frame being provided with a plurality of U-shaped carriers slidably mounted in each end of said frame, the open ends of said carriers extending toward the middle of said frame, and a delineating wire carried by and extending between the open ends of each of said carriers,



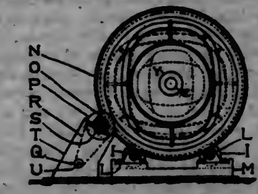
said delineating members lying in substantially the same plane transversely to the path of light from said source to said aperture, whereby a plurality of light boundaries may be cast by said light upon material to be cut.

1,916,568. BOTTLE BRUSHING APPARATUS. JOHN R. GRUETTER, Cleveland, Ohio, assignor to The Liquid Carbonic Corporation, Chicago, Ill., a Corporation of Delaware. Filed Sept. 14, 1929. Serial No. 392,662. 13 Claims. (Cl. 15—60.)



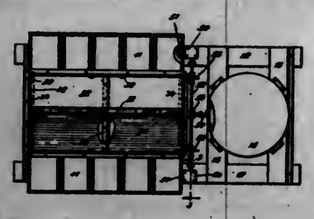
8. In a bottle cleaning apparatus, the combination of a series of bottle supports, a pair of brushes movably mounted above said supports, means for lifting the bottles from their supports and for moving them upwardly between said brushes and for thereafter returning them to their supports, connections between such bottle-raising-and-lowering means and the brushes for moving the brushes toward each other as the bottles move upwardly, means for separating the brushes when the bottles move downwardly, and means for reciprocating said brushes in a plane transverse to their movement toward and away from each other.

1,916,569. ROTATING FURNACE. CARL HALLER, Detroit, Mich. Filed July 14, 1930. Serial No. 467,706. 10 Claims. (Cl. 263—33.)



3. A furnace having an elongated charge receiving chamber polygonal in cross section and rotatable about its longitudinal axis, said chamber having certain of the side walls thereof tapering inwardly from one end thereof to the other and having other walls tapering outwardly from one end of the chamber to the other.

1,916,570. STOCK FEEDER. HENRY J. HEIDER, Carroll, Iowa. Filed Oct. 12, 1931. Serial No. 568,395. 6 Claims. (Cl. 119—51.)



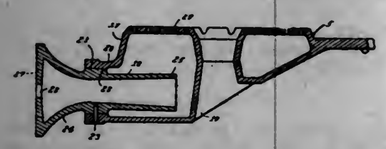
1. A stock feeder comprising in combination a skid, an automatic stock feeder including a feed trough, a water tank carried by said skid, a float casing, and pipes connecting said float casing with said trough and to said tank, whereby dry feed and water may be fed automatically to said trough.

1,916,571. DOORCHECK. LAURENCE N. HOFFMAN, Shelby, Ohio, assignor to The Shelby Metal Products Company, Shelby, Ohio, a Corporation of Ohio. Filed Feb. 4, 1932. Serial No. 590,884. 3 Claims. (Cl. 16—66.)



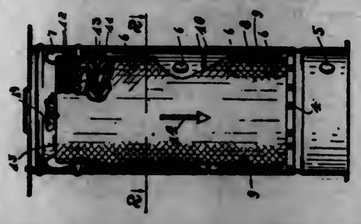
1. In a door check, the combination of a pneumatic cylinder, a piston operably positioned within said cylinder, a central portion in the wall of said cylinder raised out of contact with said piston and adapted to serve as a fluid by-pass, and a portion adjacent the compression end of the wall of said cylinder raised out of contact with said piston.

1,916,572. GAS BURNER. PETER I. HOLLMAN, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a Corporation of Illinois. Filed Apr. 12, 1930. Serial No. 443,646. 4 Claims. (Cl. 158—116.)



1. A star-shaped front cooking top burner for gas stoves comprising a hollow body member providing therein an annular mixing chamber, said body member being formed to provide hollow radiating fingers in communication with the annular mixing chamber, all of said fingers having suitable ports in the top walls thereof, one of said fingers being enlarged to provide a gas inlet, and a mixing tube in said finger, said tube being elongated and having one end enlarged and constituting its inlet end, said tube being disposed with its enlarged inlet end extending from the outer end of the finger, the outlet end of said mixing tube in said finger being in spaced relation to the inside walls of said finger substantially the full length thereof for good distribution of gas therefrom to all of the ports in the finger, said mixing tube being in direct communication at its outlet end with the aforesaid annular mixing chamber.

1,916,573. FUEL PACKAGE FOR HEATERS. JESSE CARL JESSEN, Los Angeles, Calif. Filed Aug. 16, 1929. Serial No. 386,294. 2 Claims. (Cl. 44—38.)



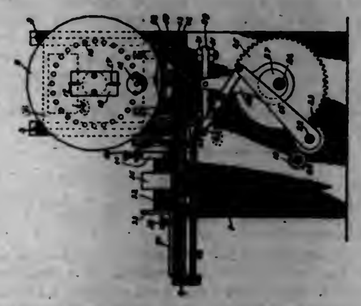
1. In combination, a heater and a package of fuel placed in said heater, said package comprising, a burnable casing having a filling of inflammable material and a kindler of more readily inflammable material than the filling placed near the top of said filling in said casing, whereby when the kindler is ignited at the top of said package the fuel is caused to progressively burn downwardly in said heater covering an extended heating period and said package of fuel being spaced inwardly from said casing whereby an upward draft of air is created between the inner wall of said casing and the side of said package to assist combustion of fuel in said package.

1,916,574. METHOD OF MAKING GILL RING TUBES. FREDERICK E. KEY, St. Louis, Mo., assignor to Key Boiler Equipment Company, East St. Louis, Ill., a Corporation of Missouri. Filed May 19, 1930. Serial No. 453,674. 4 Claims. (Cl. 219—10.)



1. The method of making a gill ring tube, consisting in forming gill ring segments with a welding surface of greater curvature than said tube, superimposing said segments upon said tube so that said difference in relative curvature spaces the segments from the tube, and then welding said segments in place, whereby the respective curvatures become identical.

1,916,575. HOT STAMP PRINTING MACHINE. ELMER T. KNITTER, San Francisco, Calif. Filed Sept. 8, 1930. Serial No. 480,560. 5 Claims. (Cl. 101—100.)



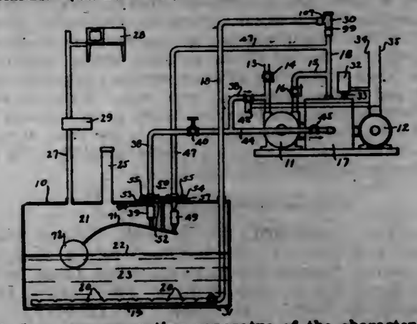
1. A stamping unit having means for displaying characters thereon in desired combinations, a bed plate, means for reciprocating the stamping unit relative to the bed plate, means for successively and intermittently feeding cards between the bed plate and the stamping unit and means for passing a ribbon over the cards transversely to the direction of travel of the latter and in timed relation to the stamping operations.

1,916,576. BOOKHOLDER. FREDERICK C. LANDSITTEL, Columbus, Ohio. Filed Oct. 22, 1931. Serial No. 570,408. 16 Claims. (Cl. 45—85.)



1. A book holder comprising a supporting base formed with a hub, a yoke rotatably mounted on said hub for turning movement about a substantially vertically disposed axis, a frame having at one side a horizontal pivotal connection with said yoke, threaded adjusting means pivotally connected with said yoke and the other side of said frame and serving to retain said frame in various positions of angular adjustment with respect to said base, wing members having hinged connections with said frame, and threaded adjusting means cooperative with said frame and said wing members for varying the spacing of said wing members.

1,916,577. GAS GENERATION. GEORGE W. LORIMER, Troy, Ohio, assignor, by mesne assignments, to Black Products Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 10, 1930. Serial No. 443,151. 22 Claims. (Cl. 261—26.)



1. In a gas generating apparatus of the character described, a tank adapted to contain a quantity of liquid fuel, means for bubbling combustion supporting gas through said fuel to generate a combustible gas, means for introducing a supplementary flow of combustion supporting gas to said tank, a valve for controlling said introducing means, said valve being positioned entirely within said tank, and means in the tank responsive to the level of the fuel in said tank for actuating said valve.

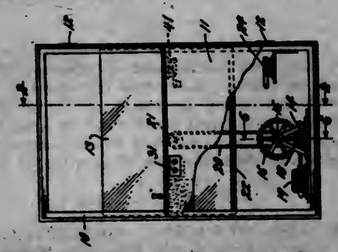
1,916,578. DOLL AND MOUTH SET FOR SAME. SAMUEL MARCUS, Belle Harbor, N. Y., assignor to Margon Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 21, 1932. Serial No. 638,884. 11 Claims. (Cl. 46—40.)

1. An artificial tongue or mouth element for a doll's head having a mouth opening, said element comprising a generally trough-like member the open side of which is adapted to fit in back of the mouth opening, with the trough extending horizontally from one side of the mouth



opening to the other, and additional mounting means so designed as to support the same at the mouth opening with the open side of the trough facing the mouth opening.

1,916,579. ELECTRICALLY OPERATED WINDOW. EVERT MOSHER, Eads, Colo., assignor of one-fourth to James G. Hopkins, Eads, Colo. Filed Mar. 5, 1932. Serial No. 597,023. 1 Claim. (Cl. 268—124.)



In a device for operating a window pane from a flexible chain, means for connecting said pane to said chain comprising: a frame member secured to said pane; and a pair of studs projecting from said frame member into engagement with opposite sides of said chain.

1,916,580. BASKET OR BOX CORNER REENFORCE. WALTER F. NEWHOUSE, Benton Harbor, Mich. Filed July 11, 1930. Serial No. 467,165. 7 Claims. (Cl. 217—69.)

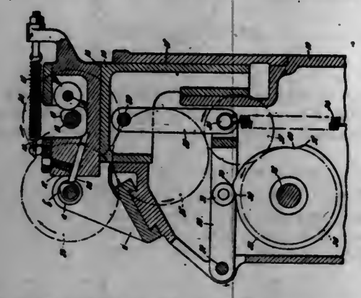


1. In a box or basket having side walls disposed at an angle to each other, a sheet metal covering or reenforce extending over the corner portion of the box or basket, formed entirely from sheet metal cut and bent into shape to extend downwardly both inside and outside the said receptacle or container, having all of its walls straight and flat, with a separable joint extending down the outer corner thereof, and having a flat top wall formed of two arms overlying the upper edges of the box or basket and integrally united from the inner to the outer corner thereof, said covering being fastened in place.

1,916,581. LATHE. FRANK O'BRIEN, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 24, 1929. Serial No. 373,180. 1 Claim. (Cl. 82—19.)
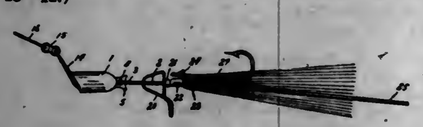
In mechanism of the class described: a frame, a work holder rotatably mounted on the frame; a tool carriage slidably mounted on the frame to one side of the work holder to move in a plane which is transverse to and does not intersect the axis of the work holder; a tool holder

slidably mounted on the tool carriage to move in a plane which is transverse to that in which the tool carriage moves and which is transverse to and intersects the axis of the work holder; and means to cause rotary movement of the work holder, to cause reciprocatory sliding movement of the tool carriage on the frame bodily with respect to the work holder, to cause reciprocatory sliding move-



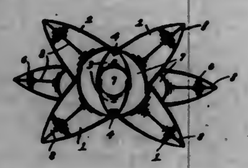
ment of the tool holder on the tool carriage bodily with respect to the work holder, and to synchronize the reciprocatory movements of the tool carriage and the tool holder with the rotary movement of the work holder so as to maintain the tool at all times at approximately the proper cutting angle to work whose periphery is not uniformly spaced from the axis of rotation of the work holder.

1,916,582. FISHING TACKLE. CHARLES T. PFLUEGER, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 3, 1929. Serial No. 397,110. 14 Claims. (Cl. 43—42.)



1. In an artificial bait, a sinker at the forward end thereof, the forward end of the sinker being formed with an upwardly and forwardly inclined surface, an elevating member attached to the surface, a hook jointedly connected to the sinker for relative angular movement both vertically and horizontally, and means to limit the vertical angular movement of the hook with respect to the sinker.

1,916,583. FLOWER HOLDER. ERNESTINE N. POLE, Hot Springs, Va. Filed Dec. 29, 1932. Serial No. 649,405. 3 Claims. (Cl. 47—41.)

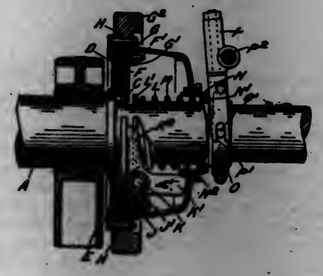


1. A flower holder comprising a plurality of substantially upstanding, outwardly curved plates having overlapping marginal portions secured together, a pair of inner plates mounted within the first named plates and secured thereto, the inner plates being substantially similar in shape to the outer plates and being secured together, the inner plates being smaller than the outer plates, and a pair of plates mounted exteriorly on the first named plates and being substantially similar in shape thereto, the third named plates bridging the joints of certain of the first named plates.

1,916,584. IMPREGNATING AND ADHESIVE COMPOSITION. WILHELM PUNGS, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Dec. 5, 1927, Serial No. 237,995, and in Germany Dec. 8, 1926. 9 Claims. (Cl. 134—13.)

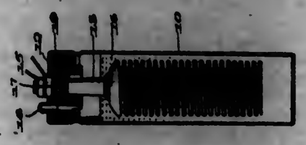
1. As a new article of manufacture, an impregnating and adhesive composition comprising a heat reaction product of a pitch of the nature of stearine-pitch together with oil of vegetal origin, a sulphur-supplying body and an organic sulphur-bearing substance extracted from a tar of a bituminous coal with an organic alcoholic solvent.

1,916,585. MEANS FOR DRIVING THE SPEED GOVERNORS OR OTHER AUXILIARIES OF FLUID-PRESSURE ENGINES. HARRY RALPH RICARDO, London, England. Filed Feb. 20, 1930, Serial No. 430,097, and in Great Britain Mar. 21, 1929. 2 Claims. (Cl. 264—4.)



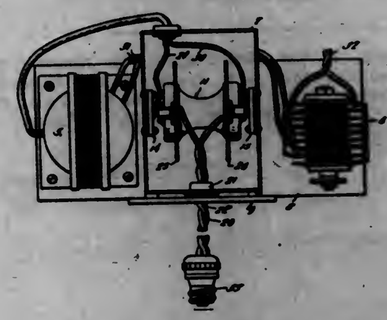
1. In a fluid pressure engine, the combination of a rotary driving member in which torsional oscillations are to be damped, a centrifugal governor for controlling the speed of the engine, this governor being mounted to rotate coaxially with one end of the rotary driving member and comprising governor weights and a spring acting on such weights, and a frictional driving coupling device connecting the governor directly to the rotary driving member and comprising driving and driven parts pressed together by the end of the governor spring opposite to that which acts on the governor weights so that the driving and driven parts shall have such friction between them as will transmit the regular drive to the governor but will permit oscillating slip to occur in the event of rapid reversals of torque due to torsional oscillations in the rotary driving member.

1,916,586. ELECTROLYTIC DEVICE. PRESTON ROBINSON and JOSEPH L. COLLINS, North Adams, Mass., assignors to Sprague Specialties Co., North Adams, Mass., a Corporation of Massachusetts. Filed May 8, 1931. Serial No. 536,072. 21 Claims. (Cl. 175—315.)



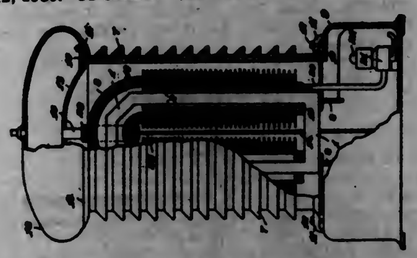
9. In the manufacture of electrolytic devices with aluminum electrodes and having an electrolyte with a pH between 4 and 8, the process which comprises forming the electrode in an electrolyte, maintaining the electrolyte at a substantially constant pH during the whole formation process and assembling the electrode into a condenser having an electrolyte of lower pH than the forming electrolyte.

1,916,587. BATTERY CHARGING UNIT. HERBERT RUSSELL, Williamsburg, Iowa. Filed Mar. 9, 1932. Serial No. 597,820. 1 Claim. (Cl. 175—363.)



A battery charging unit for a vehicle having a battery, said unit comprising a base mountable on the vehicle, a transformer, a rectifier, and extensible input connection means on the base, said extensible input connection means comprising a casing, a reel rotatably mounted within the casing, transformer and rectifier input conductors brought into the casing, contacts mounted in the casing to which the input conductors are connected, contact members on the reel for electrical engagement with the contacts, reel input conductors windable on the reel and connected with the contact members, and output conductors leading from the rectifier for selective connection to the battery, and connector means on the outer ends of the reel input conductors for connection to any available current outlet for charging the battery.

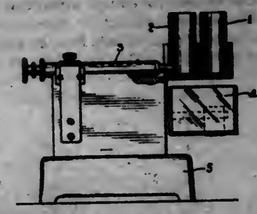
1,916,588. POWER TRANSFORMER AND MORE PARTICULARLY TO TRANSFORMERS AND REACTORS FOR EXTRA-HIGH VOLTAGE CURRENTS. CARL SCHRADER, Berlin-Halensee, GEORG KRINATH, Berlin-Charlottenburg, FRANZ POLIN, Berlin-Grunewald, and HANS RITZ, Berlin-Charlottenburg, Germany, assignors to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany, a Corporation of Germany. Filed Nov. 9, 1931, Serial No. 575,740, and in Germany Nov. 12, 1930. 34 Claims. (Cl. 175—361.)



1. An iron core with completely closed magnetic circuit, said core having a plurality of legs and two yokes connecting them, an insulating envelope enclosing all of said legs and one of said yokes, and a voltage winding located upon said insulating envelope and having a potential which drops toward that yoke which is clear of said insulating envelope.

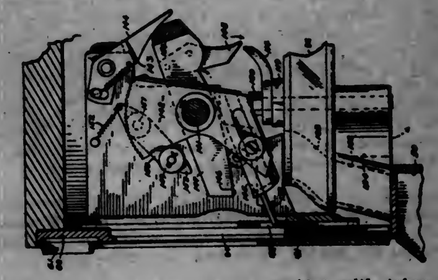
1,916,589. COLORIMETER. ABRAHAM G. SHEPTEL, New York, N. Y. Filed Feb. 17, 1930. Serial No. 429,073. 4 Claims. (Cl. 88—14.)

1. In a colorimeter, a container for the colored liquid specimen to be tested, a standard color specimen for comparison with the test specimen, and a graduated syringe for injecting additional quantities of the colored liquid test specimen into said container or withdrawing quanti-



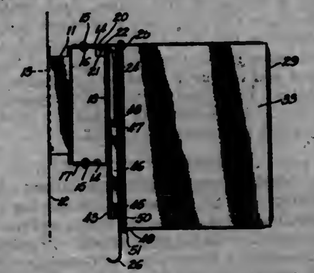
ties therefrom to vary the color of the liquid test specimen until it is the same as that of the standard of comparison.

1,916,590. AMUSEMENT DEVICE. WALTER A. TRATSCH, Chicago, Ill. Filed Sept. 2, 1930. Serial No. 479,315. 49 Claims. (Cl. 194—1.)



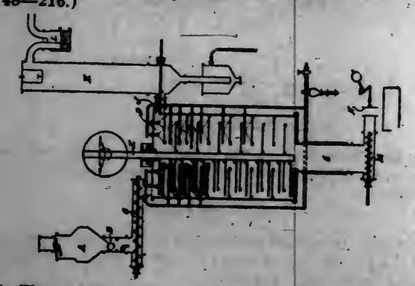
47. In an amusement device provided with token receiving means the combination of distributing means for the tokens received including a plurality of receptacles; and means for effecting the distribution of the tokens to said receptacles, said means including a pivoted member and a slide operatively mounted thereon, said slide governed by the receiving means.

1,916,591. BOOKHOLDING DEVICE. LEONARD M. WEBBER, Los Angeles, Calif. Filed Nov. 16, 1931. Serial No. 575,262. 7 Claims. (Cl. 45—85.)



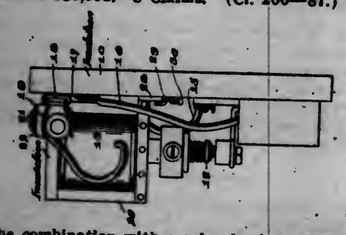
1. In a book-holding device, the combination of: a support; a book-supporting member pivoted at its upper end to said support so as to be vertically swingable and horizontally movable relative thereto; an engaging member slidable relative to said support and connected to said book-supporting member so as to be moved toward the upper end of said book-supporting member by the swinging up of said book-supporting member; and an engager adapted for engagement with said engaging member to secure said book-supporting member in extended position, said engaging member being adapted for disengagement from said projection by slight horizontal movement of said book-supporting member relative to said support.

1,916,592. PROCESS OF PREPARING ACETYLENE. CARL WIEDEMANN and FELIX WALTER, Knapsack, near Cologne-on-the-Rhine, Germany, assignors to Aktiengesellschaft für Stickstoffdünger, Cologne-on-the-Rhine, Germany, a Corporation. Filed Feb. 8, 1929, Serial No. 338,433, and in Germany Feb. 14, 1928. 3 Claims. (Cl. 48—216.)



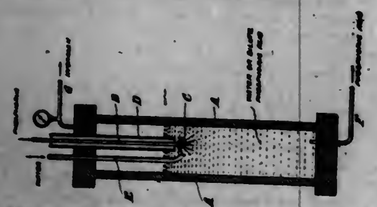
1. The process for continuously producing acetylene and substantially dry calcium hydroxide from calcium carbide which comprises moistening a moving body comprising calcium carbide with water at a plurality of points along its path of movement while continuously agitating the constituents of the moving body, the amount of water employed being only that necessary to effect a conversion of the calcium carbide into acetylene and calcium hydroxide and a reduction of the heat of the reaction to below 100° C. by evaporation of a part of said water.

1,916,593. CIRCUIT CONTROLLING DEVICE. WILLIAM T. WELCH, New Orleans, La. Filed Dec. 14, 1931. Serial No. 580,991. 8 Claims. (Cl. 200—87.)



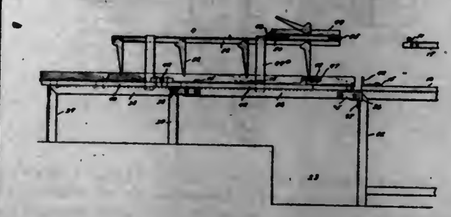
1. The combination with a relay having a panel board, a coil and a laminated coil frame, fixed switch connectors arranged on the panel board at opposite sides of the coil, cooperating switch connectors mounted on the coil frame and connected to the opposite ends of the coil, said panel board and coil switch connectors disposed in registering relation and adapted for interengagement to connect the coil in the circuit, and means for releasably supporting the coil in position.

1,916,594. PRODUCTION OF PHOSPHORIC ACID AND HYDROGEN. GUSTAV WIETZEL and GUSTAV PAUCKNER, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Sept. 9, 1929, Serial No. 391,511, and in Germany Oct. 16, 1928. 5 Claims. (Cl. 23—165.)



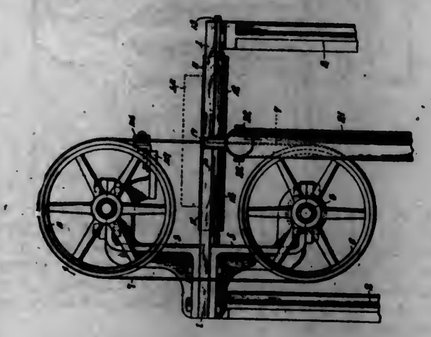
1. The process of producing phosphoric acid by interaction of liquid water and liquid phosphorus which comprises thoroughly disseminating the liquid phosphorus in the water and rapidly heating the phosphorus to above 240° C. under pressure to prevent the formation of red phosphorus in coherent form.

1,916,595. CAN WASHING MACHINE. LESTER J. WILLIAMS, Canastota, N. Y., assignor to Carl Braun Inc., Canastota, N. Y., a Corporation of New York. Filed Nov. 12, 1929. Serial No. 406,783. 4 Claims. (Cl. 198—224.)



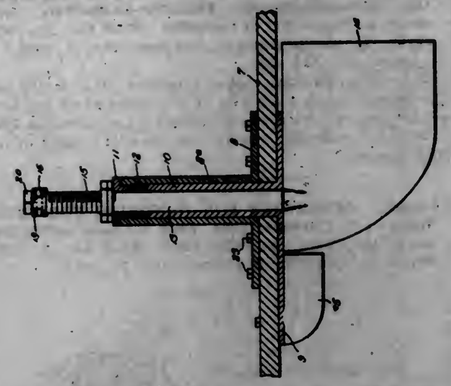
1. The combination with a sterilising device for cans and covers having a reciprocating slide for advancing the cans and a reciprocating member located above the can advancing slides for advancing the covers, with auxiliary mechanism for use at the end of the can and cover sterilising device comprising a reciprocating slide having a hinged connection to permit the remote end of the slide to be swung vertically, one end of the slide member having means for connecting the slide of the auxiliary mechanism to the slide of the can advancing device and a slide arranged above the can advancing slides for advancing the covers, the cover advancing slide being hinged to fold upon itself and having means to connect the cover advancing slide of the auxiliary mechanism and the cover advancing slide of the steriliser, the cover advancing slide having a plurality of dependent pivotally swinging cover engaging members and the can slides having a plurality of horisontally disposed can engaging members projecting toward each other and pivotally mounted on the slides to advance the cans.

1,916,596. CLEANER FOR CAKE-CUTTING MACHINES. JOHN BELL WINFREE, Jr., Lynchburg, Va. Filed May 28, 1930. Serial No. 456,752. 16 Claims. (Cl. 146—88.)



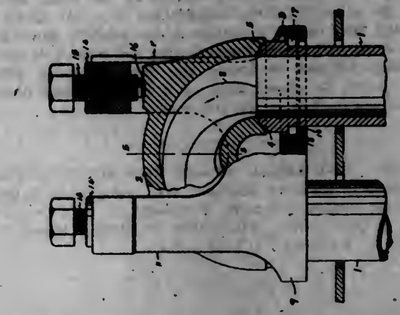
1. A band knife cleaner and steriliser particularly for cake-cutting machines, comprising a nozzle having a pair of passages therein for directing a jet of heated fluid on each side of the band in a direction from the rear edge of the band toward the front or cutting edge and a pair of passages therein below the first-named pair of passages for directing a jet of heated fluid against each side of the band to remove any cake matter.

1,916,597. MARINE STEERING MECHANISM. CLARA M. WITTE, Nebraska City, Nebr. Filed July 11, 1932. Serial No. 621,977. 1 Claim. (Cl. 114—162.)



A steering mechanism for marine crafts comprising a plate to be secured to the bottom of the craft having an opening therein and a tubular bushing extending upwardly therefrom and aligned with said opening, a rudder blade having an actuating stem projecting through the opening in the said plate and journaled in said bushing, and a stationary depending rudder blade on the under side of said plate in advance of the first-mentioned blade.

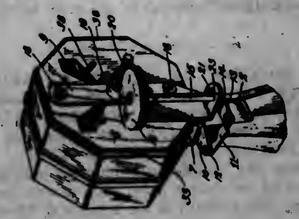
1,916,598. RETURN BEND. ROBERT O. AYRES, FREDERICK A. KROLL, and EDWIN A. JOHNSON, Houston, Tex.; said Johnson assignor to J. H. McEvoy and Company, Houston, Tex., a Corporation of Texas. Filed May 31, 1930. Serial No. 457,838. 3 Claims. (Cl. 285—20.)



1. The combination with a return bend, of tubes whose adjacent ends are connected by said return bend, said connected ends each having an external shoulder, a bracket having openings through which said ends of said tubes extend, each opening having an annular face inclined to the axis of the corresponding tube, an annular key between each shoulder and said corresponding face and having an annular outer edge which bears against said face, said key being movble on said face and serving to interlock said bracket with said tubes, means connected to the bracket and bearing against said return bend and effective to maintain said return bend in assembled relation with said tubes.

1,916,599. OSCILLATING ELECTRIC FAN. BERNHART A. BENSON, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 28, 1931. Serial No. 583,485. 8 Claims. (Cl. 230—256.)

1. In an oscillating electric fan, a supporting member; an electric motor and fan assembly including a fan shaft rotated by the motor, the shaft having a threaded portion; means pivoting the said assembly upon the supporting member on a pivoting axis transverse of and intersecting the fan shaft; and a mechanism interposed between the supporting member and the said assembly for oscillating the assembly about the pivoting axis; the mechanism including a worm-wheel meshing with the threaded shaft portion and supported by the said assembly with the



freedom for limited movement toward and away from the said shaft portion, a worm shaft fastened to the worm-wheel, a bracket spaced from the fan shaft and slotted to journal and guide the worm shaft with freedom for movement toward and away from the fan shaft, and spring means normally urging the worm shaft towards the fan shaft and pressing the worm-wheel against the said threaded shaft portion.

1,916,600. BLADE SHARPENER. BURT L. BENSON, Wheaton, Ill. Filed May 6, 1931. Serial No. 535,478. 1 Claim. (Cl. 51—214.)



A sharpening device comprising a holding portion and a blade-edge receiving portion composed of uniform elements of hard material provided with opposing arcuate surfaces of similar convexity with the horizontal radii of the elements arranged in the same plane in close spaced relation to constitute the blade-edge receiving space therebetween so that said surfaces will contact with the side faces of the blade cutting edge, said surfaces being immovable and receding from each other immediately beneath the blade-edge side face contacting surfaces.

1,916,601. OPHTHALMIC MOUNTING. SAMUEL E. BOUCHARD, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 28, 1931. Serial No. 532,217. 4 Claims. (Cl. 88—50.)



1. An eyeglass mounting comprising a bridge, lens holding members secured to said bridge, a downwardly projecting pivot pin having its upper end secured to said bridge, a guard lever mounted to turn on said pin, means for retaining said lever on said pin, said means comprising a bendable finger carried by said lever.

1,916,602. ACID RESISTING ALLOY. WILLIAM J. BRADDOCK, Wheeling, W. Va. Filed Feb. 20, 1933. Serial No. 657,680. 3 Claims. (Cl. 75—1.)

1. A drawable and weldable corrosion-resisting alloy consisting in substantial entirety of copper, aluminum, and nickel, the metals being included in the relative proportions by weight of ninety per cent, to ninety-four per cent. copper, three per cent. to five per cent. aluminum, and three per cent. to five per cent. nickel, the proportions of nickel and aluminum included in the alloy being substantially equal.

1,916,603. PROCESS OF PRODUCING ALUMINIUM SULPHATE. MAX BUCHNER, Hanover-Kleefeld, and FRITZ GEWECKE, Wunstorf near Hanover, Germany. Filed Nov. 18, 1929, Serial No. 408,157, and in Germany Nov. 24, 1928. 3 Claims. (Cl. 23—123.)

1. A process for producing aluminium sulphate, comprising reacting sulphuric acid with aluminium nitrate while heating the mixture in an apparatus of chromium-iron alloy.

1,916,604. N-SUBSTITUTED ARYL-SULPHONAMIDES AND PROCESS OF PRODUCING SAME. THOMAS S. CARSWELL and WILLIAM GUMP, St. Louis, Mo., assignors, by mesne assignments, to Monsanto Chemical Company, a Corporation of Delaware. Filed Jan. 16, 1929. Serial No. 333,016. 7 Claims. (Cl. 260—124.)

7. A composition of matter having the structural formula:



where R is an aromatic hydrocarbon radical; X is an alkyl radical and Y an acetyl radical.

1,916,605. METHOD OF MAKING ADJUSTABLE SPANNERS. JACQUES FRANÇOIS GABRIEL CHOBERT, St. Etienne, France. Filed July 1, 1930, Serial No. 465,230, and in France Aug. 8, 1929. 3 Claims. (Cl. 76—114.)



1. A method of manufacture of adjustable spanners, one of the jaws of which comprises two parallel side-plates, the said method consisting in cutting out a flat plate comprising two extensions which correspond to the side-plates of the jaw and which are connected to each other by the part of the metal which corresponds to the nose of this jaw and throughout the length of this nose projects beyond the body of the jaw and corresponds only to the working zone of this jaw, said method also consisting in pressing and folding this plate subsequently along a line passing through this part of the metal.

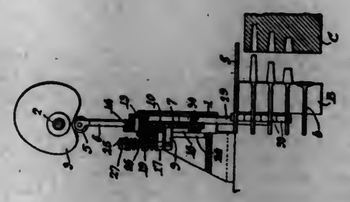
1,916,606. SAFETY PAPER. WILLIAM N. DOUSHKESS, Easton, Pa., assignor, by mesne assignments, to Milton C. Johnson Company, New York, N. Y., a Corporation of New York. Original application filed Mar. 6, 1928, Serial No. 259,594. Divided and this application filed Oct. 9, 1929. Serial No. 398,572. 7 Claims. (Cl. 91—67.95.)

2. A safety paper carrying a leuco indophenol and manganous sulphate.

1,916,607. WEATHER-RESISTANT COATING MATERIAL. WALTER DROSTE and MAX WEHNER, Wiesdorf-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Feb. 18, 1930, Serial No. 428,237, and in Germany Mar. 6, 1929. 5 Claims. (Cl. 134—39.)

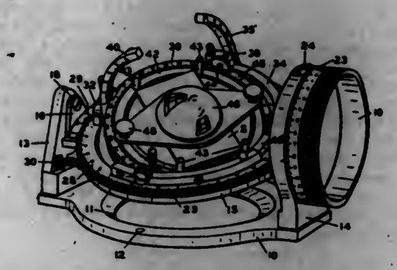
1. Coating materials being composed of a drying oil, lithopone and such a quantity of zinc oxide which has been precipitated and dried at a temperature not exceeding 500° C. as is just sufficient to neutralize the acid content of the binding agent.

1,916,608. APPARATUS FOR HANDLING FORGINGS. WILLIAM E. ERINGER, Tiffin, Ohio, assignor to The National Machinery Co., Tiffin, Ohio. Filed Aug. 2, 1929. Serial No. 382,974. 6 Claims. (Cl. 78—96.)



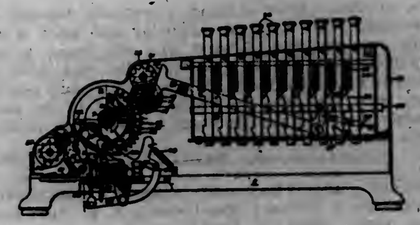
1. A machine of the class described including gripping and forming dies mounted for relative movement, in combination with feeding mechanism including relatively movable slides, arms pivotally connected to one of the slides, opposed work gripping jaws carried by the arms, means upon the other slide for cooperation with the arms to close the jaws during a portion of the relative movement of the slides and means for actuating the respective slides in timed relation to swing the jaws laterally while closed, lower the closed jaws, open the jaws, and finally return them to their initial position.

1,916,609. UNIVERSAL STAGE FOR MICROSCOPES. RICHARD C. EMMONS, Madison, Wis., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 23, 1931. Serial No. 564,548. 4 Claims. (Cl. 88—39.)



1. A universal stage comprising a base adapted to be attached to a microscope stage, a support ring pivotally mounted on said base, an outer ring rotatably mounted on said support ring, a swing ring pivotally mounted on said outer ring, an inner ring pivotally mounted on said swing ring, a stage ring rotatably mounted on said inner ring and means for holding a specimen on said stage ring.

1,916,610. CALCULATING MACHINE. CARL M. F. FRIDEN, Oakland, Calif., assignor to Marchant Calculating Machine Company, Emeryville, Calif., a Corporation of California. Filed June 1, 1926. Serial No. 112,756. Renewed Jan. 23, 1933. 14 Claims. (Cl. 235—130.)



1. In a calculating machine, reversible registering mechanism, actuating means therefor, means controlled by said registering mechanism for stopping said actuating means, and means rendered effective during operation of said registering mechanism in one direction for disabling said stopping means.

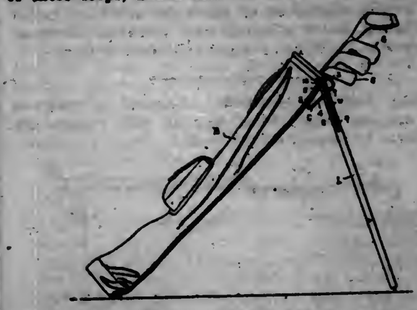
1,916,611. CALCULATING MACHINE. CARL M. F. FRIDEN, Oakland, Calif., assignor to Marchant Calculating Machine Company, Emeryville, Calif., a Corporation of California. Filed Dec. 12, 1928. Serial No. 325,555. 2 Claims. (Cl. 235—79.)



1. In a calculating machine, a plurality of value selecting units comprising levers adapted to be differentially positioned, a bank of keys located above the levers of each of said units and depressible to contact and position said levers differentially, and a fraction key carrying differentially proportioned elements overlying the levers associated with a plurality of adjacent banks of keys, said elements being adapted to directly contact and position said levers differentially upon depression of said fraction key.

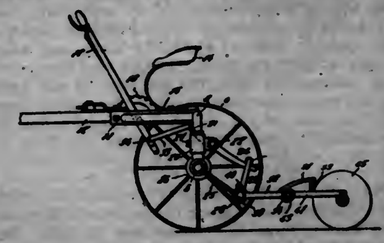
1,916,612. SUPPORT. HUGH B. G. GALT, Norfolk, Va. Filed Jan. 24, 1931. Serial No. 511,012. 4 Claims. (Cl. 150—1.5.)

4. In combination with a receptacle, a clamp having two portions for insertion into the receptacle, two loops extending outwardly and downwardly from the first two portions respectively, and a portion connecting the ends of these loops, and a coil formed in each of said loops



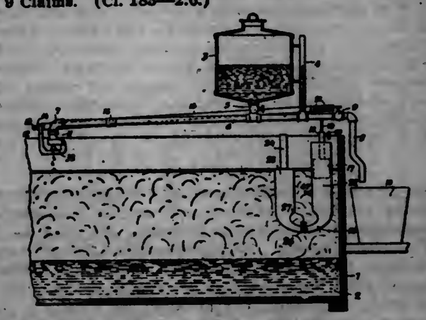
closely adjacent the said connecting portion; a yoke passing through said coils; and a leg attached at each end of said yoke.

1,916,613. STALK CUTTER. LARKIN ALONZO HACKER, Vernon, Tex. Filed Sept. 4, 1929, Serial No. 390,294. Renewed Jan. 21, 1933. 2 Claims. (Cl. 55—61.)



1. A machine of the character described comprising an axle, supporting wheels journaled on the axle, risers mounted on the axle, bearings mounted on the risers, a rocker shaft journaled in the bearings, means for actuating the rocker shaft, rockable arms on the axle, a shaft fixed to the rockable arms, yokes fixed to the rockable arms, lifting arms fixed to the rocker shaft and operatively engaged with the yokes in a manner to raise and lower the second named shaft, and cutting members operatively mounted on said second named shaft.

1,916,614. DEVICE AND METHOD FOR SUPPLYING FOAM SUPPRESSING SUBSTANCES. ARTHUR P. HARRISON, Takoma Park, Md., assignor to Standard Brands Incorporated, New York, N. Y., a Corporation of Delaware. Filed July 2, 1930. Serial No. 465,432. 9 Claims. (Cl. 183—2.6.)



4. In combination with a vat or fermenter adapted to contain a body of ebullient liquid on the surface of which foam is formed in a layer of variable thickness,

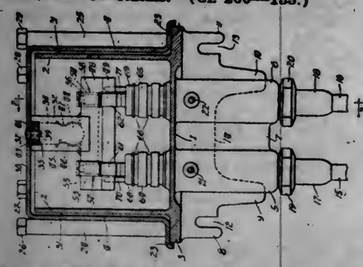
means for automatically introducing a foam suppressing material to the foam zone at a rate directly proportional to the increase in thickness of foam and independently of the surging variations of the liquid and foam including actuating means shielded from turbulent movement and surges of the body of liquid and layer of foam.

1,916,615. NAPKIN HOLDER. EVANGEL A. HAVELES, Los Angeles, Calif. Filed May 21, 1930. Serial No. 454,297. 9 Claims. (Cl. 312—62.)



2. In a device of the class described, a casing having a large opening at one vertical side, a narrow dispensing opening at the upper portion of its front side, and a rack, adapted to contain vertically arranged napkins or the like, slidably mounted within the casing and adapted to be removed from the casing through said open vertical side for refilling the rack, the one edge of the napkins or the like being positioned opposite the narrow opening at the front side of the casing for removing the front napkin or the like through said opening.

1,916,616. ELECTRIC SWITCHING DEVICE. ALFRED HERZ, Chicago, Ill., assignor of one-half to Edmund O. Schweitzer, Chicago, Ill. Filed May 5, 1930. Serial No. 449,762. 33 Claims. (Cl. 200—133.)

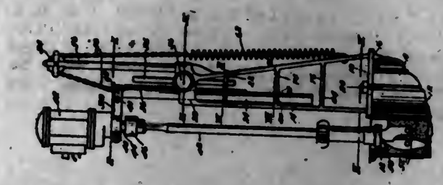


2. A switching device, comprising a substantially cup shaped container, stationary contacts disposed in said container at the base thereof, current conductors attached to said container and connected to said stationary contacts, a removable substantially bell shaped closure for attachment to said container, and a fuse link assembly comprising compression blocks and yieldable contacts removably disposed within said closure for closing the circuit of said conductors over said stationary contacts and said yieldable contacts when said closure is attached to said container.

1,916,617. MANUFACTURE OF MIXED FERTILIZERS. ERNST JAENECKE, Heidelberg, and FRIEDRICH FROWEIN, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Dec. 6, 1928, Serial No. 324,317, and in Germany Dec. 20, 1927. 19 Claims. (Cl. 71—9.)

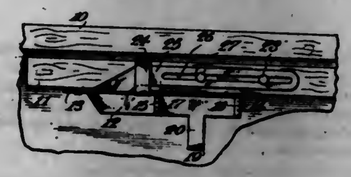
1. A process for the manufacture of mixed fertilizers which comprises treating an aqueous dispersion comprising magnesium nitrate with potassium nitrate.

1,916,618. CYLINDER GRINDING STAND. WILLIAM A. JENNINGS, Raytown, Mo., assignor to Rapid Tool Corporation, Raytown, Mo., a Corporation of Delaware. Filed May 24, 1930. Serial No. 455,289. 1 Claim. (Cl. 29—26.)



In a cylinder grinding stand, a vertically disposed reciprocating shaft, a frame supporting said shaft, a laterally extending table integral with said frame, a tool actuating motor and an arm supporting said motor in operative position adjacent the upper end of said vertical shaft, said arm being releasably clamped to the shaft whereby the motor may be swung to and from a position above the table.

1,916,619. ASH TRAY AND SUPPORT THEREFOR. KENNETH B. JOHNSON, Kew Gardens, N. Y. Filed Sept. 20, 1929. Serial No. 393,928. 7 Claims. (Cl. 45—75.)



5. An ash tray support comprising a frame to which the ash tray may be removably connected, means for pivotally connecting the frame to the leg of a table, means on the frame to grip the leg and hold the frame thereto when the frame is folded against the leg, and means on the table to be moved into position to support the frame and the tray in the operative position.

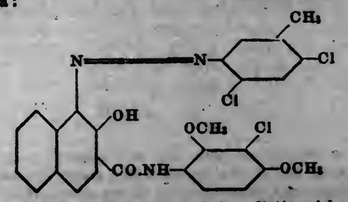
1,916,620. PAVEMENT AND PAVING UNIT. WARREN JOHNSON, New Orleans, La. Filed June 19, 1931. Serial No. 545,580. 3 Claims. (Cl. 94—13.)



1. A pavement comprising a plurality of polygonal slabs, upper and lower tongue members formed with the sides of said slabs and disposed in staggered relationship, said tongue members being slightly less than half the thickness of the slab, the upper tongue members being formed with the upper portion of the slab and the lower tongue members being formed with the lower portion thereof whereby to form recesses with which interlocking engagement is made by alternate tongues, the upper tongues of one slab being slightly spaced from the lower tongues of the next adjacent slab and being formed with openings extending vertically therethrough, and a plastic binder forced into said openings and in the spaces between said tongue portions to produce a solid joint.

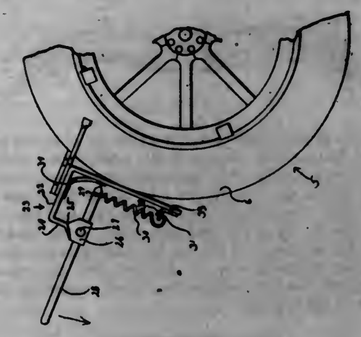
1,916,621. AZO DYESTUFF AND FIBER DYED THEREWITH. HERBERT KRACKER, Frankfort-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 12, 1931, Serial No. 522,171, and in Germany Mar. 19, 1930. 2 Claims. (Cl. 260—95.)

1. As a new product, the azo-dyestuff of the following formula:



dyeing a Turkey red tint and being distinguished by its good fastness properties, particularly by its good fastness to boiling lye and to light.

1,916,622. BRAKE TESTER. LORNE KRAMER, Tonawanda, N. Y. Filed Apr. 21, 1931. Serial No. 531,617. 3 Claims. (Cl. 265—1.)



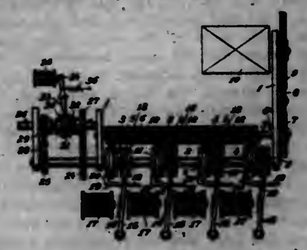
1. A vehicle wheel brake tester of the type described, comprising, a support engageable with the tire of the wheel, a pair of crossed and pivoted gripping arms having portions engageable under the belly of the sides of tire pivotally connected links connecting the radially outward portions of the arms pivotally to the support, a lever pivoted intermediate its ends on said support, a spring connected to the inward end of the lever and to the support for resisting pivotal movement of the lever in one direction, and a curved plate having indicia thereon mounted on the support, said lever being formed with a pointer at its inward end which co-operates with the indicia to indicate the force applied to rotate the wheel.

1,916,623. SHOULDERED STUD BOLT RIVETING OR SETTING DIE. HARRY W. KULP and MARTIN C. DELLINGER, Lancaster, Pa. Filed Mar. 18, 1930. Serial No. 436,766. 1 Claim. (Cl. 78—46.)



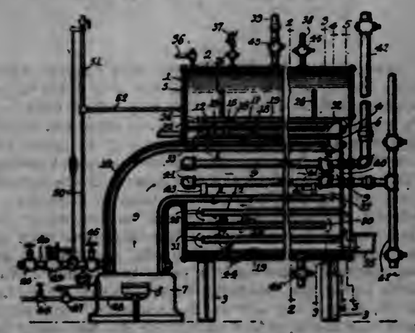
A set of dies for expanding the cross-sectionally enlarged shoulder of a stud bolt in the registering perforations of a hub flange and brake-drum web and closely adjacent to the axially inwardly extending hub bearing sleeve, said set of dies comprising an anvil die having a portion adapted to extend closely adjacent to said bearing sleeve and to engage and support the head of the stud bolt, in combination with a pressure die having a bore of uniform diameter throughout its length and of greater length than the screw-threaded portion of said stud bolt and just snugly receiving slidably said screw-threaded portion, the face of the lower portion of said pressure die tapering inwardly and downwardly and intersecting the wall of said bore to form an annular edge surface adapted to engage, cut into, and spread the enlarged annular shoulder of the stud bolt.

1,916,624. AUTOMATIC CONTROL MECHANISM. PAUL MANSEL, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany, a Corporation of Germany. Filed Mar. 21, 1929, Serial No. 348,711, and in Germany Mar. 26, 1928. 1 Claim. (Cl. 235—92.)



In a control device of the character described, an actuated mechanism, a series of gear wheels, graduated as to the number of their teeth, co-operating with said actuated mechanism and adapted to impart thereto motions of different extent, each of said wheels having a recess, a clutch associated with each gear wheel and adapted, when engaged, to rotate such gear wheel, a locking member for each gear wheel, arranged to enter said recess and to lock such gear wheel in its initial position after the wheel has performed one complete revolution, said locking member being operatively connected with the respective clutch to bring such clutch into the disengaged condition by the movement of the locking member into locking position in the initial position of the corresponding gear wheel.

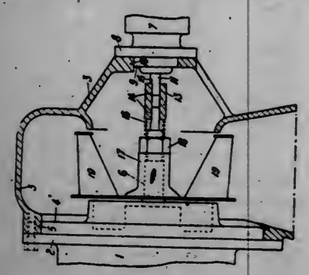
1,916,625. WATER HEATER. GEORGE A. MATTESON, Los Angeles, Calif. Filed Jan. 28, 1932. Serial No. 589,455. 1 Claim. (Cl. 122—135.)



In a device of the class described, a water tank comprising a body having first and second end walls, a head in the body, near to the first end wall, but spaced therefrom, a horizontal conducting flue for the products of combustion, extending through the second end wall to the

head, a water tube about the flue, and extended through the second end wall to the head, a plurality of tubes, comprising first, second, third, fourth, fifth, sixth, and seventh horizontal tubes disposed one about the other and about the conducting flue and the water tube, all of the tubes of said plurality extending from the second end wall to the head, saving the seventh tube, the seventh tube extending between the first and second end walls, and having an opening located adjacent to the second end wall and communicating with the top portion of the tank body, radial first, second, third, fourth, fifth, and sixth division plates extending between the conducting flue and the seventh flue, and extending between the second end wall and the head, the space between the flue and the water tube being closed, and the space between the third and fourth tubes being closed, adjacent to the first end wall, in the spaces between the fifth and fourth, the third and second, and the first and sixth division plates, the space between the first and second tubes, and the space between the fifth and sixth tubes being closed, adjacent to the second end wall, in the spaces between the fifth and fourth, third and second, and first and sixth division plates, the space between the water tube and the first tube being closed, and the space between the fourth and fifth tubes being closed, adjacent to the second end wall, in the spaces between the fourth and third, the second and first, and the sixth and fifth division plates, the space between the second and third tubes, and the space between the sixth and seventh tubes being closed, adjacent to the first end wall, in the spaces between the fourth and third, second and first, and sixth and fifth division plates, the space between the sixth and seventh tubes being in communication with the space between the head and the first end wall, and the last-specified space having an opening for the exit of the products of combustion.

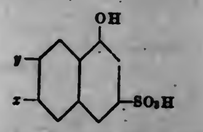
1,916,626. AIR AND FUEL PUMP UNIT. JOHN GRAVES McKEAN, Mount Vernon, and ROBERT FREDERICK JONES, Glasgow, Scotland. Filed Dec. 14, 1931, Serial No. 580,975, and in Great Britain Dec. 16, 1930. 4 Claims. (Cl. 103—4.)



1. Liquid fuel burning plant comprising a motor casing, a rotary driving spindle protruding from said motor casing, a pump casing, a driven spindle protruding from said pump casing, a fan secured on the protruding end of said driving spindle, a fan casing constructed to house said fan and interposed between said motor and pump casings, two cylindrical machined surfaces formed on the fan casing and having their axial center lines in alignment, a cylindrical machined surface formed on the motor casing and having its axial center line coinciding with the axial center line of the driving spindle, a cylindrical machined surface formed on the pump casing and having its axial center line coinciding with the axial center line of the driven spindle, said machined surfaces being so positioned that one machined surface on the fan casing fits the machined surface on the motor casing and the other machined surface on the fan casing fits the machined surface on the pump casing whereby the driving and driven spindles are arranged in axial alignment and means for coupling together said driving and driven spindles.

1,916,627. PROCESS OF PREPARING 1.7-DIHYDROXYNAPHTHALENE. JOSEF MERSCH, Leverkusen, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 12, 1931, Serial No. 515,423, and in Germany Feb. 20, 1930. 5 Claims. (Cl. 260—154.)

1. The process which comprises heating a compound of the general formula:



wherein x stands for hydrogen or a sulfonic acid group and y stands for a substituent of the group consisting of the hydroxy- and amino-groups, in aqueous acid of about 1 to about 30% strength at a temperature between about 150 and about 210° C.

1,916,628. GOGGLES. EMIL B. MEYROWITZ, New York, N. Y., assignor to E. B. Meyrowitz, Inc., a Corporation of New York. Filed Mar. 21, 1929. Serial No. 348,851. 8 Claims. (Cl. 2—14.)



1. As a frame member for goggles, an eye cup jointed to open transversely at one point, and locking means at the joint comprising two operatively connected links, one pivoted to the eye cup at one side of the joint and being of a length substantially to overlap the eye cup at the other side of the joint, and the other being pivoted to the eye cup at the other side of the joint between the joint and the overlapping end of the first link at such point as to permit the two links to be folded compactly against the face of the eye cup.

1,916,629. MANUFACTURE OF CONDENSATION PRODUCTS FROM CARBAZOLE COMPOUNDS AND OLEFINES. RICHARD MICHEL, Uerdingen, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Dec. 3, 1928, Serial No. 323,573, and in Germany Dec. 8, 1927. 10 Claims. (Cl. 260—46.)

1. Process which comprises reacting with an olefine upon a compound of the carbasole series in the presence of a hydrosilicate having a large surface.

1,916,630. GOGGLES. JOHN L. MORAN and ALVIN J. LEE, Spokane, Wash., assignors, by direct and mesne assignments, of one-fourth to Francis E. P. Wilder, Spokane, Wash., and one-fourth to Robert Malcom, Chicago, Ill. Filed May 28, 1930. Serial No. 456,507. 1 Claim. (Cl. 2—14.)



In goggles of the character described, adapted for use with spectacles, provided with a pair of eye-cups flexibly secured together, having side walls increasing in width

toward the outer temple sides thereof and lens-seats at the forward ends of the eye-cups; the outer temple side wall of each eye-cup being partially cut away from a point rearward of the lens-seat to the rear end of the cup to provide an elongated opening open at the rear end of the cup, a channeled member adapted to be removably secured across said opening; the opposite longitudinal sides of the opening and the opposite longitudinal edges of said member being formed into complementary portions whereby the member is slidingly held in place, the member at its inner end being provided with an end wall, whereby complete closure of said opening is effected, while the outer end of said member is provided with a slot for attachment of a head band thereto; said member having an opening in its main wall with the opposite marginal edges of said opening being bent into channel formation open at the rear end of the member; and a side vision providing element slidably mounted in said channeled formation of the member.

1,916,631. PAVING TILE. HENRY E. MUCHNIC, Atchison, Kans., assignor to The Locomotive Finished Material Company, Atchison, Kans., a Corporation of Kansas. Filed May 7, 1931. Serial No. 535,702. 2 Claims. (Cl. 94—12.)



1. A metallic tile comprising a flat plate of polygonal shape, the perimeter of the plate having a continuous depending flange, while the bottom of the plate is provided with transversely disposed intersecting flanges, with the inner face of the perimetric flange and said intersecting flanges adjacent their lower marginal edges having laterally disposed enlargements with oppositely beveled faces to provide a lower wedging surface and a locking upper surface adapted to be pressed into a roadway surface; the tile being provided with paving material receiving openings having side walls converging toward the bottom of the plate, and depending flanges on the plate bottom about said openings.

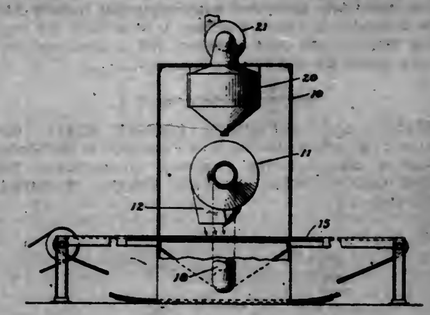
1,916,632. PLUG STOP. FRANK H. MUELLER and JAMES W. SIMPSON, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a Corporation of Illinois. Filed July 2, 1931. Serial No. 548,420. 7 Claims. (Cl. 251—97.)



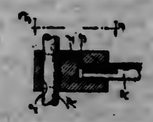
1. A valve of the class described including a body having a valve seat, a rotatable plug valve arranged to be moved into and out of engagement with said seat, said plug valve having its stem extending through said body, an operating nut non-rotatably but slidably connected to said stem and means threaded to said stem and said nut for moving the plug valve relative to its seat.

1,916,633. PROCESS AND APPARATUS FOR CLEANING FRUIT. HARRY A. MULVANY and HARRY E. KENNEDY, Berkeley, Calif. Filed Sept. 23, 1929. Serial No. 394,554. 5 Claims. (Cl. 146—219.)

1. A process of cleaning fruit which comprises subjecting the surface of the fruit to a blast of finely divided soft and light material in a closed chamber, said blast of divided material being sufficiently abrasive to remove foreign matter from the surface of the fruit, and exhausting the removed foreign matter from the chamber during the cleaning of the fruit.

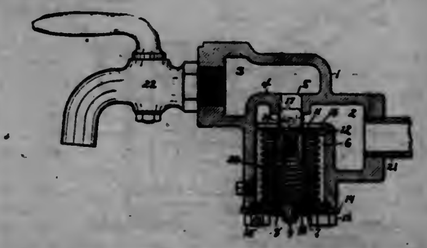


1,916,634. TOY CONSTRUCTION BLOCK. CHARLES HAMILTON PAJEAU, Glencoe, Ill., assignor to The Toy Tinkers, Inc., Evanston, Ill., a Corporation of Illinois. Original application filed Jan. 16, 1932, Serial No. 587,013. Divided and this application filed Dec. 10, 1932. Serial No. 646,575. 2 Claims. (Cl. 46—35.)



1. A toy construction block for use with rods of uniform diameter, comprising a cap member having a bore extending part way into it from one end of that member, the bore being of such a size as to fit tightly over an end portion of a rod; the cap member also having a cross-bore extending through it between the inner end of the last named bore and the other end of the cap member, the cross-bore being sufficiently larger in diameter than a rod to permit the rod to slide freely through it.

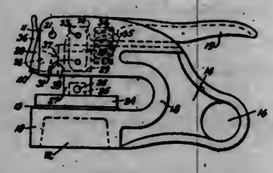
1,916,635. FLUID FLOW REGULATOR. BYRON J. PEPPER, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, a Corporation of Indiana. Filed Jan. 21, 1932. Serial No. 587,978. 1 Claim. (Cl. 137—153.)



A fluid flow regulator comprising a housing having inlet and outlet chambers connected by a passageway therebetween and having also a compression chamber communicating with said inlet chamber, at one end and having an apertured head at its opposite end, a poppet disposed in said compression chamber having a valve thereon for closing said passageway and a stem guided in the aperture of said head, an expansible cup disposed in said compression chamber closed with respect thereto and operatively associated with said poppet, a dasher disposed

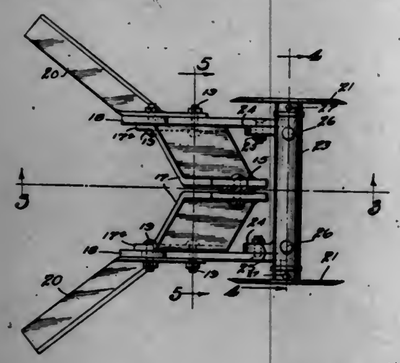
in said compression chamber fitting loosely in the bore thereof and conjoined with said poppet, a compression spring operatively associated with the poppet to hold said valve normally in closed position, a connection for supplying fluid to said inlet chamber, and a discharge controlling means for said outlet chamber.

1,916,636. ALL ALUMINUM POCKET SEAL. EDWARD J. RANTSCH, Hollis, N. Y., assignor to Hill-Independent Manufacturing Company, Germantown, Pa. Filed Oct. 19, 1932. Serial No. 638,449. 6 Claims. (Cl. 101—3.)



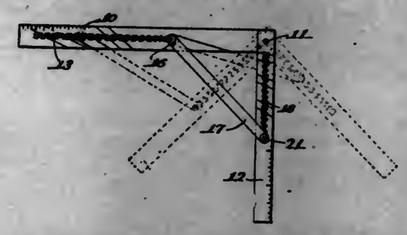
1. In a pocket seal, a body of substantially U-shape but turned around on a side and having a rear extension forming the stationary handle of the seal, a movable handle of substantially L-shape pivotally mounted upon the top of said arm of said body in a manner so that the long arm extends across the top of the top arm and the short arm extends downwards across the front of the top arm of said body, the inner face of the short arm being adapted to act against a portion of said body, for limiting pivoting of said movable handle to the open position, a stationary die section upon the bottom of said body, a movable die section above said stationary die section, a sleeve connected with said movable die section and slidably extending into an opening in said body, a link pivotally connected with the top of said sleeve and pivotally connected with said movable handle, a spring connecting between said movable handle and body for normally urging the movable handle into the open position, and a locking element adjustably mounted upon the short arm of said movable handle for engaging against said body and holding said movable handle in the closed position.

1,916,637. LISTER ATTACHMENT. WADDILL L. RHODES, San Jon, N. Mex. Filed Dec. 21, 1931. Serial No. 582,463. 3 Claims. (Cl. 97—179.)



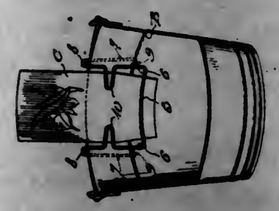
1. In a seed planter or the like including a wheeled-frame and having a vertically movable post element extending toward the ground in advance of the planting device; a lister attachment adapted to be secured to said post and incorporating divergent plate members providing a substantially U-shaped hood adapted to straddle a row of plants, runners carried by the lower portions of said hood, a sleeve extending across said runners at the forward ends thereof and secured thereto, a shaft extending through said sleeve, cutting disks carried by said shaft for cutting weeds and trash, knives carried by said runners at their outer sides and adjacent the lower edges thereof, means for lubricating said shaft through said sleeve, and washers disposed between the ends of said sleeve and the disks carried by said shaft.

1,916,638. FOLDING SQUARE. MICHAEL B. RIZIANU, Los Angeles, Calif. Filed Nov. 4, 1931. Serial No. 572,941. 2 Claims. (Cl. 33—75.)



2. A folding square comprising a pair of straight-edged blades pivotally connected to each other at one end, each blade being provided with a longitudinally disposed slot, blocks arranged for sliding movement in said slots, a clamping brace arranged between said blocks, clamping screws seated in said sliding blocks and passing through the ends of said clamping brace and the length and arrangement of the two slots and the length of the clamping brace being such that when the sliding block is at the inner end of one of the slots and the other sliding block is at the outer end of the other slot, the blades will occupy positions 90° apart.

1,916,639. CARD HOLDER. GEORGE D. ROGERS, Louisville, Ky. Filed July 21, 1932, Serial No. 623,861. Renewed May 23, 1933. 2 Claims. (Cl. 40—11.)



1. A device for holding a card against a container wall, comprising a length of wire whose central portion forms a horizontal bar for disposition at one side of a container wall, the wire being bent upwardly at the ends of said bar to provide fixed arms for disposition against said one side of the container wall and being bent downwardly at the upper ends of said fixed arms to provide spring arms for disposition at the other side of the container wall, intermediate portions of said fixed arms being bent inwardly toward each other to provide fingers, said horizontal bar and said fingers being adapted to lie against a card to hold the latter against said one side of the container wall.

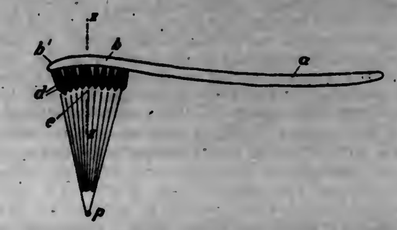
1,916,640. HOSPITAL SHEETING. SOLOMON H. RUBIN, Brookline, and JAMES J. CLIFFORD, Reading, Mass. Filed Jan. 11, 1933. Serial No. 651,134. 9 Claims. (Cl. 5—334.)

1. A hospital sheet comprising a base of water-proof sheet material and a coating of rubber applied thereto, said coating having high surface frictional properties and being of sufficient thinness to afford great flexibility and pliability, said coating covering at least the marginal areas



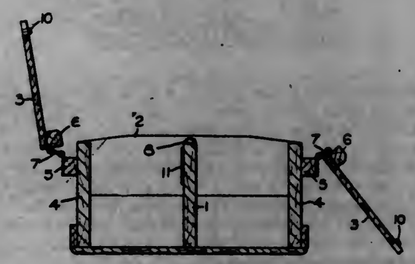
of the sheet adjacent to the opposite edges thereof, whereby to hold the sheet firmly against slipping and wrinkling when said margins are tucked under the mattress.

1,916,641. TOOTHBRUSH. HERMANN SMELIGER, Berlin-Grunewald, Germany. Filed Aug. 29, 1932, Serial No. 630,829, and in Germany Sept. 2, 1931. 1 Claim. (Cl. 15—167.)



A tooth brush having an elongated head and knots of bristles secured to the head, said head being curved in side elevation and being thinned and narrowed at its outer end, and the knots being arranged so that their axes longitudinally of the head are radial to the concave face thereof and transversely converge toward the longitudinal center of the head whereby projected axes of the knots both longitudinally and transversely of the head will meet at common points.

1,916,642. EGG CRATE. WILLIAM SHELBY, Eastwood, Ontario, Canada. Filed Apr. 18, 1932. Serial No. 606,019. 6 Claims. (Cl. 217—57.)



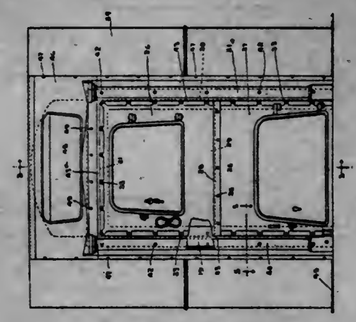
1. In an egg crate, a transverse partition contained within the crate and having its upper edge at a lower level than the upper edges of the sides of the crate, a pair of lid members hinged to the ends of the crate and adapted to lie between the inner faces of the sides of the crate and supported by the partition, and a lock for the lid members carried by the partition and positioned below the level of the upper faces of the closed lid members.

1,916,643. SNOW VEHICLE. OSVILLE R. STEELE, Covington, Va. Filed Dec. 7, 1931. Serial No. 579,514. 1 Claim. (Cl. 180—6.)



In a snow vehicle in combination, a toboggan-like base having a medial aperture cut out forming a wheel-way, a wheel frame pivotally mounted at its forward margin over the wheel-way and adapted to vibrate vertically, a paddle wheel journaled in the frame and adapted to play through the wheel-way, resilient means for normally supporting the wheel frame and wheel in a raised position, means for driving the paddle wheel, runners laterally arranged and adapted to vibrate vertically, means for raising or lowering the runners, a rudder and controlling means therefor, braking fins hinged at the rear of the base and controlling means for the said fins.

1,916,644. HEATING APPARATUS. MAX M. SUPPES, Elyria, Ohio, assignor to The Fox Furnace Company, Elyria, Ohio, a Corporation of Ohio. Filed Nov. 13, 1930. Serial No. 495,411. 7 Claims. (Cl. 126—99.)



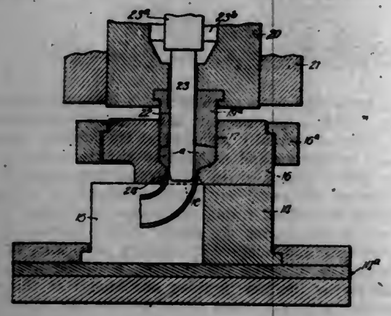
1. A bot air furnace, comprising a casing having a front opening, a frame sealed to said casing around said opening, a front furnace wall rigidly secured at its top and side edges to said frame, and a jacket enclosing said casing and secured to said frame in spaced relation to said wall whereby the joint between said wall and said frame is out of communication with the space within said jacket.

1,916,645. METHOD OF AND MEANS FOR MAKING CURVED PIPE FITTINGS. JAMES HALL TAYLOR, Oak Park, Ill. Filed Oct. 24, 1932. Serial No. 639,272. 4 Claims. (Cl. 207—10.)

1. The method of making a curved pipe fitting, which comprises confining an annular billet of metal with its internal periphery in substantially coaxial relation and its external periphery in eccentric relation to an annular orifice, and simultaneously subjecting the entire billet to endwise pressure toward said orifice to force different volumes of metal through said orifice at opposite sides thereof, and confining the flow through said orifice in respect of said different volumes of metal to produce greater linear speed of flow at said orifice at the side of the greater volume, thus causing curvature of the fitting as formed.

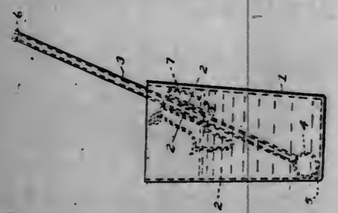
2. A machine for forming curved pipe fittings, comprising a die member having a cavity therein and an opening leading therefrom, the axis of said opening being offset from the axis of said cavity, and a plunger and a mandrel cooperating with said die member, said mandrel being arranged to extend eccentrically through said cav-

ity to leave an annular cavity increasing in width in both directions from a point at one side to a point at the opposite side thereof and to extend into said opening to leave an annular orifice, the width of said annular cavity on its wider side divided by its width on its narrower side being greater than the width of said annular orifice



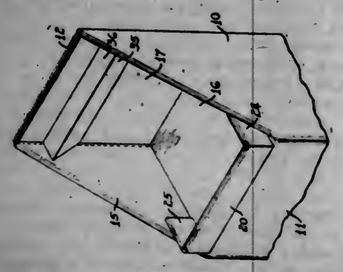
on either of its sides divided by its width on its other side, and said plunger fitting said cavity and movable therein toward said annular orifice, whereby an annular metal blank disposed in said cavity may be forced by said plunger through said annular orifice to form a curved tube.

1,916,646. COMBINATION FLUID SIPPING AND FLOAT DEVICE. SONIA TYCKO, Los Angeles, Calif. Filed Nov. 9, 1931. Serial No. 573,903. 4 Claims. (Cl. 299—17.)



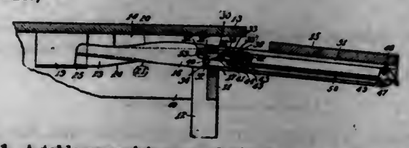
1. In an article of the class described, the combination of a hollow rod having no interior obstruction and having one of its ends enlarged to comprise a butt end, a float having an opening therethrough and arranged for movable engagement on said hollow rod, said butt end holding said float against disengagement from said rod when positioned for use.

1,916,647. DISPLAY DEVICE. WALTER HOUGHTON WALKER, New York, N. Y., assignor to Ottawa River Paper Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 20, 1933. Serial No. 661,736. 11 Claims. (Cl. 211—156.)



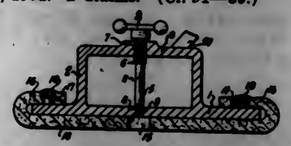
1. The combination with a seat having a bottom, a back and sides, of an insert having a bottom adapted to overlie the seat bottom, a front strip connected to the front edge of the insert bottom and foldable upwardly to form the front rim of a tray, side strips connected to the ends of said front strip and foldable to extend within the sides of the seat to form sides for the tray, and flaps extending inwardly from said side strips and foldable into a position underneath the insert bottom to hold said front and side strips in such folded position.

1,916,648. DRAW-LEAF TABLE. FREDERICK B. WALTER, Wabash, Ind., assignor to B. Walter & Company, Inc., Wabash, Ind., a Corporation of Indiana. Filed Oct. 29, 1930. Serial No. 492,007. 12 Claims. (Cl. 45—113.)



1. A table comprising a main frame, a main top secured to the main frame to form a leaf-receiving pocket between the main frame and an edge of the main top, extension-leaf slide-bars slidably mounted in the main frame beneath the main top and carrying an extension-leaf nestable in said pocket, means supported beneath the main top for slidably supporting inner portions of the slide-bars in a low plane during initial outward movement of the extension leaf and for elevating the inner ends of said slide-bars during the final outward movement of said bars and for retaining said inner ends elevated during a portion of the return inward movement of the slide-bars sufficient to bring the inner edge of the leaf closely adjacent the adjacent edge of the main top, a vertically-adjustable ledge carried by a slide-bar at an intermediate point in its length, means for holding said ledge in adjusted position, and a member carried by the main frame and arranged to be traversed below and above by said ledge, said ledge resting upon said projection when the extension leaf is in the plane of the main top and closely adjacent an edge thereof.

1,916,649. FLOOR WAXER AND POLISHER. LESLIE MACPHAIL APPLEFORD, Hamilton, Ontario, Canada. Filed Sept. 21, 1931, Serial No. 564,228, and in Canada June 18, 1931. 2 Claims. (Cl. 91—89.)



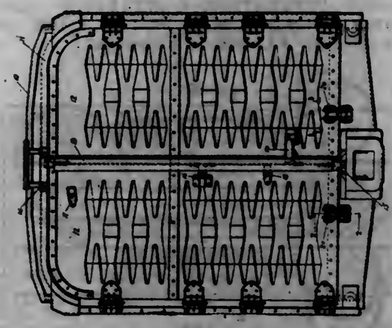
2. In a floor waxer and polisher, the combination with a wax distributing pad positioned upon the under face of the polisher and a fluid wax reservoir incorporated in the polisher and having an orifice communicating with an orifice in the pad, a needle valve seat formed at the inner end of the reservoir orifice, a needle valve seating upon the valve seat, and a removable valve actuating rod of enlarged diameter at its upper end and having such enlarged diameter portion threaded through a filling orifice in the reservoir, the needle valve being carried upon the lower end of the rod.

1,916,650. LATCHING DEVICE. WILFRED A. BEAUCHAMP, Chicago, Ill., assignor to Camel Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 18, 1930. Serial No. 428,157. 4 Claims. (Cl. 292—67.)

1. A latching device comprising, a bolt housing, said housing having walls defining an opening, the opposed walls of said opening converging from the upper and

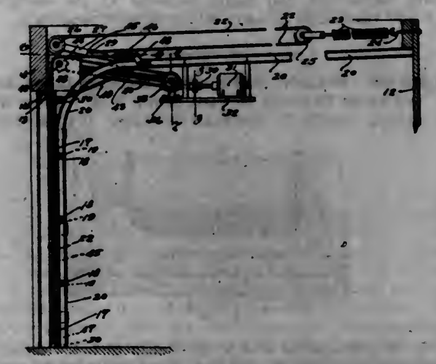
CARNEGIE LIBRARY OF ATLANTA

lower portions of said housing toward the center thereof, a latching bolt adapted to be received in said opening and a keeper, said bolt being adapted, in latching position,



to extend into an opening in said keeper, and adapted in unlatching position to assume an inclination in said housing and be supported by said keeper.

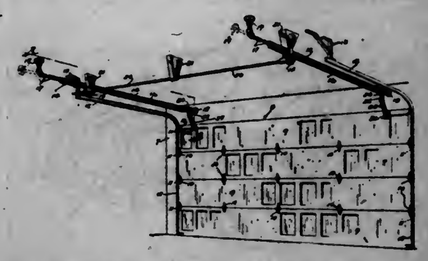
1,916,651. DOOR ACTUATING MECHANISM. EDWIN R. BEEMAN and LLOYD B. EDWARDS, Minneapolis, Minn.; said Edwards assignor to said Beeman. Filed May 16, 1930. Serial No. 452,925. 20 Claims. (Cl. 268—59.)



1. A sliding door, a track for the door arranged to change the direction of travel of the door during its opening and closing movements, a traveler mounted for hinge-like movement with respect to the plane of the door and arranged to be moved by the door in advance of its opening movement, and reversible driving means operable to open the door in advance of the point of action thereon produced by said driving means and operable on the traveler to close the door in advance of the point of action thereon.

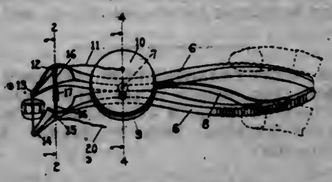
1,916,652. DOOR OPERATING MECHANISM. EDWIN R. BEEMAN and LLOYD B. EDWARDS, Minneapolis, Minn.; said Edwards assignor to said Beeman. Filed Dec. 28, 1931. Serial No. 583,426. 10 Claims. (Cl. 268—58.)

1. In a device of the class described, an overhead sliding door, means for guiding the door from a closed vertical position to an open overhead horizontal position, a rack having a tubular body, a shaft extending axially through the rack body and supporting the rack for endwise move-



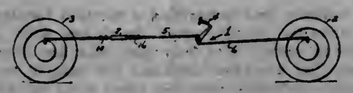
ment thereon, means connecting the door to the rack body for movement therewith, and means for reciprocating the rack to open and close the door.

1,916,653. DENTAL FLOSS HOLDER. THEODORA BODDE, Rochester, N. Y. Filed Sept. 28, 1931. Serial No. 564,591. 11 Claims. (Cl. 132—92.)



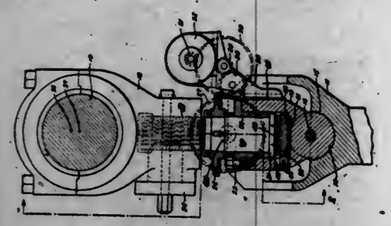
1. In a dental floss holder, two pivoted arms, one dental floss threading hole in the extreme end of each arm, and one dental floss threading and gripping hole near the pivot in each arm.

1,916,654. BRAKE OPERATING MECHANISM. JOHN G. BREWER, New Orleans, La. Filed Oct. 6, 1931. Serial No. 567,241. 1 Claim. (Cl. 188—10.)



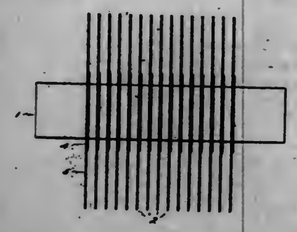
In combination with a four wheel brake mechanism having the front brake shoes thereof adjusted further from their drums than the rear brake shoes with respect to their drums to permit the rear brakes to take effect prior to the front brakes, a cylinder connected to the rear brakes, a stem connected to the operating medium of the brake mechanism and slidably received in the cylinder, a head on the stem and having a slot, a pin secured in the cylinder and extending through the slot to connect the stem to the cylinder for a limited sliding movement relative to said cylinder, and a coiled spring between the head and cylinder having tension sufficient to prevent sliding of the stem relative to the casing during the initial movement of the operating medium of the brake mechanism for applying the rear brakes with normal braking action, said spring yielding to prevent further application of the rear brakes during continued movement of the operating medium of the brake mechanism for applying the front brakes.

1,916,655. PRESS MECHANISM. ARTHUR A. BYERLEIN, Detroit, Mich., assignor to General Machinery Corporation, Hamilton, Ohio, a Corporation of Delaware. Filed June 27, 1931. Serial No. 547,251. 4 Claims. (Cl. 74—48.)



1. In a power press having a die carrying part, a driving element adapted for the transmission of force to the die carrying part, said element comprising a plurality of members and a break device of predetermined strength arranged between said members for the transmission of force from one member to the other, the break device normally rigidifying said sections with respect to one another but adapted to break upon a predetermined overload and prevent injury to other working parts of the press, one of said members having an opening at a side thereof through which the break device is insertable and removable, and an encircling ring enclosing said break device for facilitating its removal through said opening.

1,916,656. HEAT TRANSFER UNIT. WALTER R. CLARKE, Hartford, Conn., assignor to The Vulcan Radiator Company, Hartford, Conn., a Corporation of Connecticut. Filed June 15, 1931. Serial No. 544,479. 2 Claims. (Cl. 257—263.)

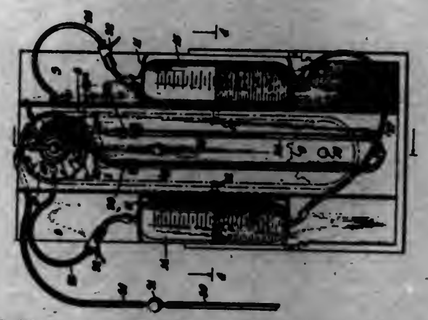


1. A radiator unit comprising a metallic tubular core, and a plurality of thin sheet metal fins with central perforations located upon said core, said fins having inner areas that are offset from but are parallel with the outer areas, both said inner and outer areas extending at right angles to the axis of the tubular core with the thin inner edges of the inner areas in close contact with and embedded in the exterior surface of the tubular core perpendicular thereto.

1,916,657. PROCESS OF REFINING CRUDE PHTHALIC ANHYDRIDE. COURTNEY CONOVER, St. Louis, Mo., assignor, by mesne assignments, to Monsanto Chemical Company, a Corporation of Delaware. Filed Nov. 29, 1926. Serial No. 151,606. 15 Claims. (Cl. 260—123.)

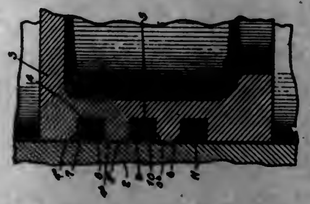
7. The method of refining crude phthalic anhydride formed by the catalytic air oxidation of naphthalene containing characteristic impurities such as maleic acid, benzoic acid, quinones, and color imparting materials, which comprises incorporating in the crude phthalic anhydride a high boiling organic acidic reagent which is retained in the anhydride under the prevailing conditions of the subsequent step, maintaining the resulting mixture at approximately the boiling temperature thereof whereby impurities in the crude anhydride are rendered separable and thereafter separating pure phthalic anhydride from the mixture by volatilisation.

1,916,658. PNEUMOTHORAX APPARATUS. LOUIS R. DAVIDSON, New York, N. Y. Filed Oct. 9, 1931. Serial No. 567,809. 4 Claims. (Cl. 128—184.)



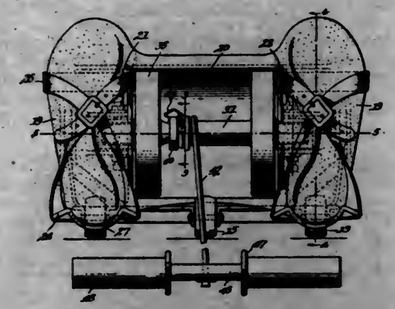
3. The combination, in a pneumothorax apparatus, having reservoirs that are vertically movable in opposite directions, and are in communication at their lower portions, of a valve having a casing and a stem revolvable therein, said casing provided with a plurality of vents and said stem having passageways that selectively connect certain of said vents, respective means of communication between the upper portions of said reservoirs and said valve, a water manometer, respective means of communication between said valve, water manometer and a pneumothorax needle, also between said valve and a mercury manometer, and means actuated by the operation of said valve stem to move said reservoirs oppositely.

1,916,659. SEALING RING. JOHN MAYNARD DODGE, Rye, and PETER OAKLAND, Howard Beach, N. Y. Filed May 9, 1932. Serial No. 610,212. 2 Claims. (Cl. 74—109.)



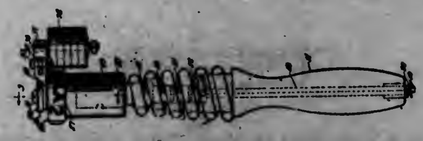
1. In combination with a cylinder, a piston within the cylinder and having an annular groove with parallel upper and lower walls, an oil ring within the groove, said ring comprising superposed interengaging sections, each section consisting of a ring integral throughout, the interengaging faces of the sections being conical and of the same inclination, the upper face of the upper section and the bottom face of the lower section being parallel and normally engaged with the upper and lower walls respectively of the piston groove, the outer edge of the upper face of the upper section terminating within the groove and the outer face of the upper ring section extending outwardly and downwardly and meeting the lower face of the upper ring section outside the plane of the piston side, the outer edge of the bottom face of the lower section terminating outside the piston groove and the outer face of the lower section extending upwardly and inwardly and meeting the upper face of the lower section within the plane of the piston side, the lower section being of considerably greater cross-sectional area and mass causing it to act as a wedge to force the upper section radially outward and to force both rings into engagement with the upper and lower walls of the piston groove.

1,916,660. EXERCISING MACHINE. CHARLES L. DUFF, Columbus, Ohio. Filed Dec. 5, 1932. Serial No. 645,617. 15 Claims. (Cl. 272—79.)



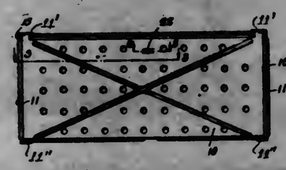
1. An exercising machine of the class described including a portable base having revoluble means for permitting the movement of the machine toward and away from the operator, a platform mounted on the base and provided with foot engaging portions, a revoluble member having its shaft journaled on the platform between said portions, and a flexible member connected at one end to said shaft and having a handle at its opposite end arranged to be grasped by the operator whereby upon the movement of the machine or the arms of the operator to actuate the revoluble member and cause the flexible member to be wound and unwound on the shaft.

1,916,661. BRANDING AND INKING DEVICE. ALFRED C. FLOTHOW, Maywood, Ill., assignor to Everhot Manufacturing Company, Maywood, Ill., a Corporation of Illinois. Filed Jan. 30, 1932. Serial No. 589,801. 3 Claims. (Cl. 101—25.)



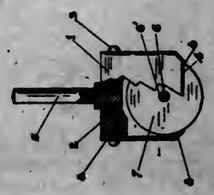
1. A portable branding device comprising a handle member, an electrical heating element carried by the handle, said heating element comprising a heat conducting member providing a bore, a resistance coil in said bore, means for energizing said coil, a branding disc rotatably mounted on said heat conducting member, an arm projecting from the device adjacent said branding disc, a pad mounted on the outer end of the arm, said arm having a joint adapting it to be folded to bring said pad into contact with said disc and when extended to move the pad to a substantial distance from the disc.

1,916,662. FOLDING RECEPTACLE. DONALD FORBES, Vero Beach, Fla. Filed Sept. 24, 1931. Serial No. 564,877. 2 Claims. (Cl. 220—6.)



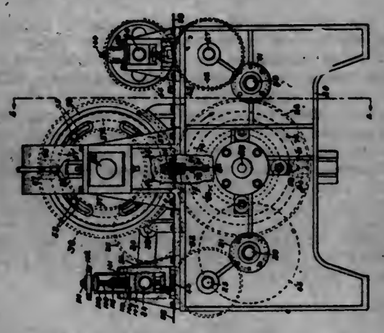
1. A collapsible receptacle comprising hingedly connected sides and ends, said ends having their upper and lower edges turned inwardly in covering relation to the ends of said hinged connections, a bottom hinged to one of said sides, an intermediate transverse partition hinged to said bottom and foldable thereonto, and a removable top frictionally engaged beneath said turned ends and bearing on the upper edge of said partition.

1,916,663. CASTER. CARL K. GREENLEAF, Palo Alto, Calif. Filed Aug. 17, 1931. Serial No. 557,528. 2 Claims. (Cl. 16—41.)



1. A caster comprising a four-sided casing, two opposite side walls of the said casing being larger in area than the other two opposite side walls, a detachable top member enclosing the top end of the casing, a wheel mounted in the casing on an axis, the ends of the said axis being mounted in the larger side walls of the casing, a part of the periphery of said wheel extending beneath and through the lower end of the casing, a pair of scrapers secured to the smaller opposite side walls of the casing, one end of each scraper extending beneath the lower edge of the casing and in contact with the periphery of the wheel, and means secured to the top member for attaching the caster to a device.

1,916,664. CUTTER FOR SEVERING BAG LENGTHS FROM PAPER TUBES. CARL H. HARTMAN, Toledo, Ohio, assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y., a Corporation of New York. Filed Aug. 5, 1927. Serial No. 210,902. 28 Claims. (Cl. 93—19.)

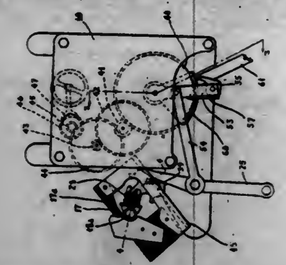


1. Apparatus for severing a tube comprising a cutter carrier and knives removably mounted in the carrier outlining an inclosed figure and lines running in opposite directions from opposite sides of said figure.

1,916,665. TIME CONTROLLING SWITCH DEVICE. ALBERT P. HODGE, Winsted, Conn., assignor to William L. Gilbert Clock Company, Winsted, Conn., a Corporation of Connecticut. Filed Mar. 15, 1930. Serial No. 436,070. 3 Claims. (Cl. 200—35.)

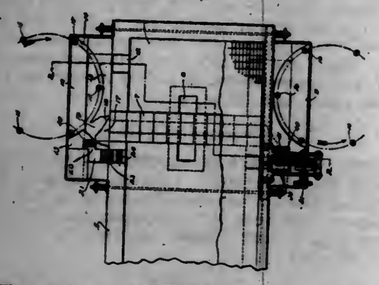
1. A timing device of the character described comprising a supporting frame, a gear having gear teeth, carried by said frame, a switch including a lever and a spring urging said lever into a direction wherein the

switch is in "off" position, an arm extending from said lever and including means for engaging said gear teeth to turn the gear under the influence of said spring, and



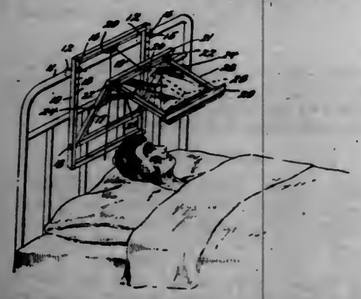
means for maintaining said engaging means inoperative until it has reached a certain predetermined point with respect to the said gear teeth.

1,916,666. METHOD OF AND APPARATUS FOR SUPPLYING GLASS TO SUCTION MACHINES. WILLIAM T. HONESS, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Connecticut. Filed Sept. 10, 1931. Serial No. 562,072. 6 Claims. (Cl. 49—56.)



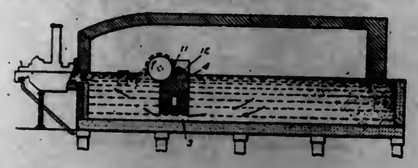
1. The method of maintaining a pool of molten glass from the surface of which charges of glass may be gathered by suction, which comprises melting the glass in one chamber of a glass tank, conducting the glass from the melting chamber to a tempering chamber connected therewith, supplying glass from the tempering chamber to a gathering pool, and causing a direct return flow of glass in molten condition from the gathering pool into the melting chamber, without passing through the tempering chamber.

1,916,667. BED READER. FREDERIK VAN ROSSEN HOOGENDYK, New York, N. Y. Filed Oct. 31, 1931. Serial No. 572,397. 1 Claim. (Cl. 45—82.)



A bed reader comprising a frame, a glass plate carried thereby and adapted to support a book face downwards, the said glass plate terminating short of the end of the frame to provide a slot through which the fingers may be inserted in order to turn the pages of the book.

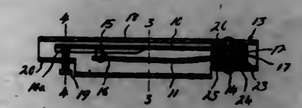
1,916,668. METHOD AND APPARATUS FOR CONDITIONING MOLTEN GLASS. GEORGE B. HOWARD, Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed July 25, 1929. Serial No. 380,929. 17 Claims. (Cl. 49—54.)



1. The method of circulating glass in a melting tank which comprises, establishing a flow of glass through the refining end thereof toward a discharge opening, and drawing a current of glass through the refining end of said tank in a path transverse to and crossing the path of the flow of the glass toward the discharge opening.

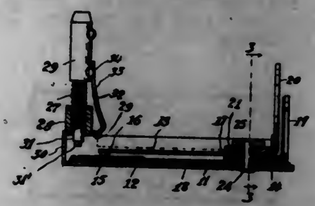
12. A glass melting tank having a melting end and a refining end separated from each other by a bridge wall, a throat for conducting glass from the melting end to the refining end, a channel by-passing the bridge wall above the level of the throat, the ends of said channel communicating respectively with the melting and refining ends of the tank, and power means for impelling glass through said channel into the melting end of the tank.

1,916,669. THERMOSTAT. FRANK KUHN and LAURENCE H. THOMAS, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 26, 1928. Serial No. 264,900. 5 Claims. (Cl. 200—138.)



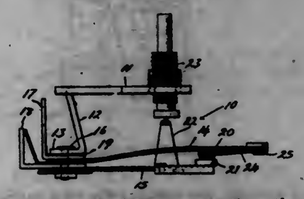
1. A thermostatic switch comprising a pair of laterally spaced bi-metallic strips, each fixed at one end and having opposite ends in contact, said strips both being laterally movable in the same direction under increasing temperature conditions, the following strip under such conditions being thinner than the leading strip and means for arresting movement of said thinner strip.

1,916,670. THERMOSTATIC SWITCH ASSEMBLY. FRANK KUHN and LAURENCE H. THOMAS, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 18, 1929. Serial No. 348,062. 11 Claims. (Cl. 200—139.)



1. A thermostatic switch comprising a casing, thermostatic elements supported upon one wall of the casing and adapted to move laterally under temperature changes, cooperating contacts on the respective elements, an adjustable stop threadedly mounted upon the casing and having a portion arranged in the path of one of the thermostatic elements for intercepting the same at predetermined points in the deflection thereof to permit separation of said contacts under changing temperature conditions, said adjustable stop having another portion provided with a projection, and a fixed stop projecting upwardly from the casing in the path of travel of the projection for limiting the extent of adjustment of said first mentioned stop.

1,916,671. THERMOSTAT. CHARLES A. HANSEN, Detroit, and ERWIN A. LOCKWOOD, Royal Oak, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed June 16, 1930. Serial No. 461,534. 12 Claims. (Cl. 200—139.)



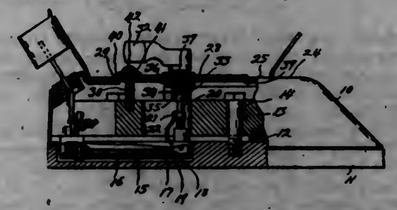
1. A thermostat comprising cooperating thermostatic elements movable laterally relative to each other under temperature changes, and means for resisting relative movement of said elements.

1,916,672. SUBASSEMBLY FOR ELECTRICAL HEATERS. FRANK KUHN and LAURENCE H. THOMAS, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 18, 1929. Serial No. 348,063. 8 Claims. (Cl. 219—25.)



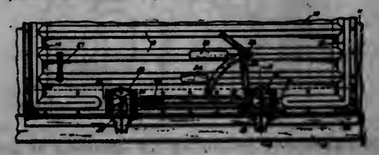
1. A sub-assembly for electrical heaters including, a heating element having an elongated slot therein, a thermostatic switch arranged beneath the slot and having contact elements extending therethrough, and a bracket secured to said heating element adjacent to said slot and electrically connected to said contact elements whereby the thermostat, heating element and bracket form a unitary construction.

1,916,673. ELECTRIC IRON. FRANK KUHN and LAURENCE H. THOMAS, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 18, 1929. Serial No. 348,061. 9 Claims. (Cl. 219—25.)



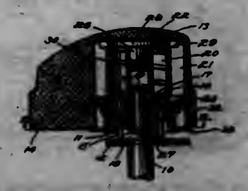
4. In an electric iron, the combination with a cover, of a plate seated upon said cover and having a portion extending through an aperture in the cover and engageable with the under side of the latter forming a detachable interlocking connection therewith and means for controlling the operation of the iron including a control arm carried by said plate and removable therewith as a unit.

1,916,674. LIFT MECHANISM. JOSEPH A. KWAKE, Chicago, Ill., assignor to Camel Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 13, 1932. Serial No. 637,584. 9 Claims. (Cl. 16—99.)



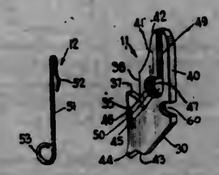
1. In a railway house car, a track, a sliding door normally seated upon said track, in combination with a plurality of spaced rollers resting upon said track, means for mounting each of said rollers upon said door comprising a pair of cams, a stud connecting said cams in spaced relation, a roller mounted upon said stud and spaced bracket members secured to said door, said cams being journaled in said members in offset relationship to said studs, means connecting certain of the cams of each roller, and lever means for operating one of said cams to elevate said door for support upon said rollers.

1,916,675. SWITCH. CARL A. LANDIN, Hartford, Conn., assignor to The Hart Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed June 12, 1930. Serial No. 460,685. 12 Claims. (Cl. 200—172.)



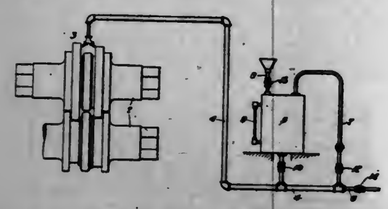
1. An electric switch of the character described comprising a switch mechanism adapted to assume a plurality of positions whereby current supply to an electric range or the like is controlled, one of said positions being off, and an operating member for the switch mechanism, said operating member also constituting indicating means for indicating the position of the switch, said operating member being recessed, means in said recess for establishing a driving connection between the operating member and the switch mechanism, and means within said recess for permitting the varying of the position of the operating member with respect to the switch mechanism while each of said means is disposed within the recess.

1,916,676. HOLDER AND NEEDLE FOR KNITTING MACHINES. GEORGE LANGE, Brooklyn, N. Y. Filed Sept. 24, 1931. Serial No. 564,767. 11 Claims. (Cl. 66—114.)



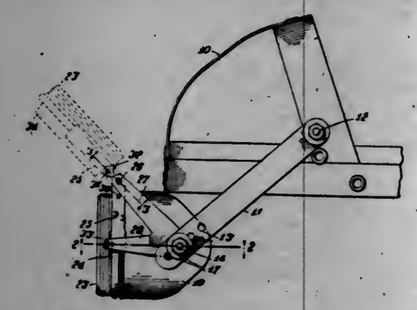
1. A knitting machine accessory comprising a substantially flat holder comprising a single piece of metal having a recess in a side face thereof and a knitting needle frictionally engaging within said recess.

1,916,677. METHOD OF PREVENTING THE FORMATION OF SCALE. JOHN LLOYD, North Braddock, Pa. Filed Aug. 28, 1931. Serial No. 560,044. 3 Claims. (Cl. 80—60.)



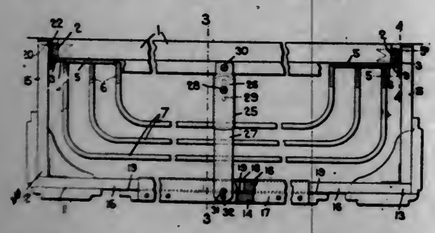
2. The method of preventing the adherence of scale to the surfaces of shaped rolls in hot rolling ferrous metal shapes which consists in maintaining a secondary surface composed of a coating of a chemical salt on said rolls during the rolling operation to which the scale is non-adherent.

1,916,678. GOGGLES. ROBERT MALCOM, Chicago, Ill. Filed Dec. 14, 1931. Serial No. 580,873. 5 Claims. (Cl. 2—8.)



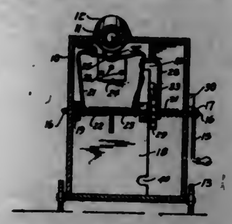
1. A goggle of the character described comprising, in combination with a goggle, lens carrying means adapted to extend across the front of the goggle and provided with a vertically disposed portion, and means immovably secured at the side of the goggle so as to be disposed forwardly and arranged to movably support the lens carrying means, said last means having portions adapted to form locking engagement with the lens carrying means when the latter is moved into and out of operative position.

1,916,679. CURTAIN FIXTURE. ALEXANDER MARCZUKOWSKI, South Boston, Mass. Filed May 2, 1931, Serial No. 534,506. 1 Claim. (Cl. 156—13.)



In a device of the class described, the combination with two supporting members, of means for securing each supporting member to the end of the head of a window frame for vertical adjustment, an ear extending from each supporting member in the direction of the plane of the window frame, a finish member comprising a body portion extensible as to its length to fit window frames of different widths, two arm portions extending at right angles to the body portion at each end thereof, said arm portions having recesses on their inner faces to receive the ears and also having means to detachably interlock with said ears, and an adjustable brace member detachably secured at one end to the top of the body portion and the other of which is adapted to be secured to the top of the heading of the window frame.

1,916,680. TOY MACHINE-GUN. FREDERICK E. MILLER, Cleveland Heights, Ohio. Filed Aug. 23, 1932. Serial No. 630,043. 3 Claims. (Cl. 124—18.)



1. In a toy gun, the combination of a casing and a barrel, means to feed balls in succession to the breech of the barrel, a shaft extending across the casing, a spring hammer carried by the shaft, a crank handle on the outer end of the shaft, and means actuated by rotation of the shaft to successively cock and release the hammer, the hammer being arranged to strike the ball at the breech, the means to cock and release the hammer comprising a trigger arm rotatable with the shaft and normally engaging the hammer to cock the same, and means to shift the trigger and shaft to release such engagement.

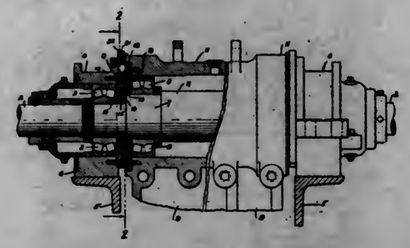
1,916,681. WINDOW STRUCTURE. HENRY WILLIAM NAGEL, Chicago, Ill. Filed May 18, 1932. Serial No. 611,201. 4 Claims. (Cl. 189—67.)



1. A window structure comprising a frame including jambs having vertical grooves formed therein, each of said grooves having at its lower end a recess and said recess extending laterally out of said grooves, upper and lower sashes slidable in said frame, members carried by said sashes slidable laterally of said grooves and having portions adapted for projection into and out of said grooves, and certain of said slidable members being adapted to have said projectable portions thereof projected into said recesses.

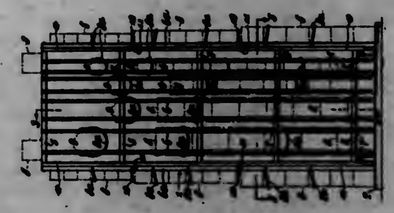
1,916,682. BEARING STRUCTURE. MELVIN OVERSTRUD, Minneapolis, Minn., assignor to Pioneer Gravel Equipment Manufacturing Company, Minneapolis, Minn., a Corporation of Delaware. Filed June 4, 1932. Serial No. 615,341. 6 Claims. (Cl. 308—187.)

1. In a bearing structure, a bearing block having an anti-friction bearing mounted therein, a shaft supported in said bearing and provided with an eccentric, a pitman having a head at one end provided with an anti-friction bearing adapted to receive said eccentric, said bearings being disposed in close proximity to one another, and means between said bearings for preventing foreign matter from entering therein, said means comprising a member provided with a bore adapted to receive said shaft and having a counterbore adapted to receive one end of the eccentric whereby said member will rotate therewith, an outwardly extending radial flange on said member, an annulus secured to the pitman head and having means



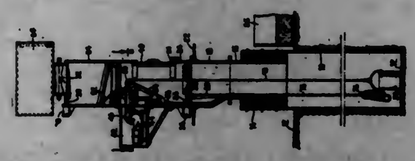
thereon cooperating with said flange to provide a seal for the bearing on said eccentric, an inwardly facing channel on the bearing block, and a web secured to the pitman head and received in said channel member.

1,916,683. DISPLAY RACK FOR CANNED GOODS. TIMOTHY F. PHARO, Sr., Tuckerton, N. J. Filed Dec. 28, 1931. Serial No. 583,522. 1 Claim. (Cl. 211—49.)



In a display rack for canned goods, the combination with a base section and an upright section rising from the base section, said upright section comprising side end pieces, of transverse pieces in spaced relation connecting the side end upright pieces, guide rails secured to the transverse pieces in vertical parallelism and disposed in differently spaced pairs with edges thereof arranged to be engaged by the canned goods, and spring loops having their ends pivoted to the guide rails at spaced intervals throughout the heighth of the upright section, the loops adapted to be inclined downwardly slightly and clamp against the canned goods.

1,916,684. AIR LOCK FOR PNEUMATIC CAISSONS. CHARLES L. POWELL, New York, N. Y., assignor to Caisson Contracting Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 3, 1931. Serial No. 566,597. 8 Claims. (Cl. 61—83.)



1. An air lock having a bucket hoisting device therein and adapted to be placed on top of a caisson, in combination with manually operable means in the caisson for controlling said hoisting device.

1,916,685. VALVE. ALEXANDER V. SAHAROFF, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Feb. 12, 1930. Serial No. 427,667. 1 Claim. (Cl. 277—46.)



The combination with a valve seat having a plurality of ports, a plurality of thin, elastic, valve-forming strips free to permit uniform bending, an abutment block having curved abutment surfaces for said valve strips, said curved abutment surfaces being milled longer than the corresponding valve strips and certain of said curved abutment surfaces and valve-forming strips being longer than others, shoulder-forming strips inserted in said abutment block and extending across the longer of said curved abutment surfaces inwardly of the ends of the curved abutment surfaces, and other shoulder-forming strips inserted in said abutment block and extending across the ends of the shorter curved abutment surfaces, said shoulder-forming strips providing square transverse ends for the active portions of said curved abutment surfaces.

1,916,686. CASING LINER. HARVEY DAVID SANDSTONE, Los Angeles, Calif. Filed Mar. 18, 1929. Serial No. 347,850. 4 Claims. (Cl. 166—21.)



1. The method of lining well bores which contemplates the continuing application to the wall of the well bore of a cementitious mixture ahead of the continuing downward progress of a suitable core or form, and simultaneously introducing reinforcing material into such cementitious material as it is being applied to such wall.

1,916,687. APPARATUS FOR CURLING HAIR. ERNEST L. SMITH, San Francisco, Calif., assignor, by mesne assignments, to Luis J. Marcus and John A. Lesoine. Filed May 20, 1929. Serial No. 364,409. 5 Claims. (Cl. 132—36.)



1. A hair curling apparatus comprising a unitary gripping block, a gripping bar operatively associated with one side edge thereof and extending longitudinally thereof and between which and the side edge of the gripping block a lock of hair is releasably gripped, a winding spindle disposed longitudinally of the upper surface of the gripping block between its side edges, and a hood in spaced parallel relation to the winding spindle and adapted to grip the hair around the spindle, said hood having one edge forming a seal with the gripping block and a free edge spaced from the gripping block providing an elongated opening for escape of steam and heat generated within the hood.

1,916,688. EARTH BORING APPARATUS. HERMAN R. SMITH, Douglaston, N. Y., assignor to Raymond Concrete Pile Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 3, 1932. Serial No. 596,429. 10 Claims. (Cl. 255—19.)

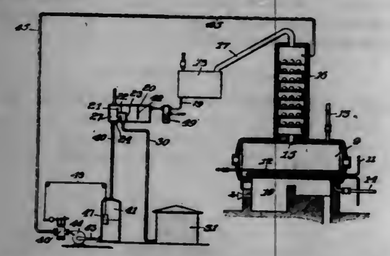


1. In a machine of the class described, in combination, a rotary digging bucket having a discharge gate, a latching device for said gate, and a drive shaft connected to the bucket and rotatable in one direction for operating said bucket and rotatable in reverse direction for operating said latching device to release said gate.

1,916,689. PROCESS OF RIPENING A CELLULOSE ESTER AND THE PRODUCT THEREOF. GEORGE SCHNEIDER, Montclair, N. J., assignor to Celanese Corporation of America, a Corporation of Delaware. Original application filed Nov. 5, 1927, Serial No. 231,897. Divided and this application filed July 2, 1930. Serial No. 465,447. 8 Claims. (Cl. 260—102.)

1. In the process of partially hydrolyzing cellulose acetate, conducting the operation in two stages, in the first of which there is added to the liquid product of acetylation a quantity of water sufficient to produce a mild hydrolysis and when this hydrolysis has occurred the acetate is precipitated by adding much water, while in the second stage the precipitated acetate is further hydrolyzed by treatment with dilute acid.

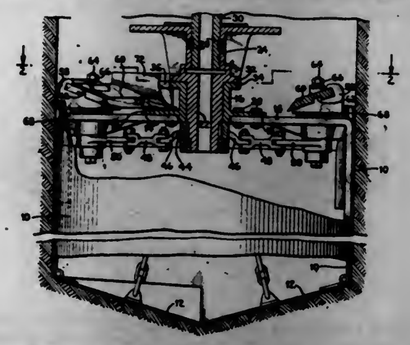
1,916,690. APPARATUS FOR DISTILLING HYDROCARBON OILS. HARRY G. SCHNETZLER, Hammond, Ind., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Original application filed Mar. 10, 1927, Serial No. 174,180, now Patent No. 1,779,918, dated Oct. 28, 1930. Divided and this application filed May 24, 1930. Serial No. 455,314. 6 Claims. (Cl. 196—139.)



1. An apparatus for distilling hydrocarbon oils comprising a still, a fractionating column, a condenser, a plurality of fixed means for dividing the total condensate in predetermined and definitely fixed proportions into more than two parts and means for returning any number of selected parts of said condensate to the fractionating column for reflux therein.

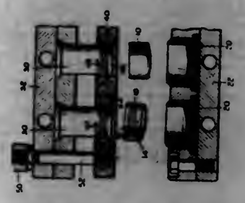
1,916,691. REAMER FOR EARTH BORING BUCKETS. FREDERICK A. SCHROEDER, Rochelle Park, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 24, 1932. Serial No. 600,840. 8 Claims. (Cl. 255—76.)

1. In apparatus of the class described, in combination, a rotary digging bucket for boring a hole in the earth, a hole-enlarging reamer comprising blades mounted at the upper end of said bucket for swinging movement on



vertical axes, and bucket rotating means for shifting the reamer blades from inoperative to operative reaming position while the bucket is in the hole in the ground.

1,916,692. MOLDING OF PLASTIC ARTICLES. GEORGE K. SCRIBNER, Boonton, N. J., assignor to Boonton Molding Company, Boonton, N. J., a Corporation of New Jersey. Filed May 5, 1930. Serial No. 449,852. 20 Claims. (Cl. 18—55.)



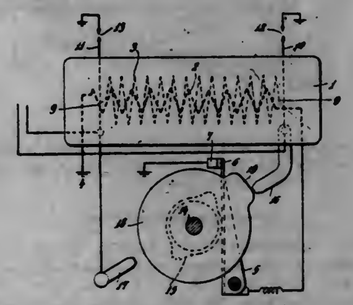
1. In the manufacture out of phenolic condensation product of a molded article naturally adapted by reason of its configuration for removal from a non-collapsible core in a preferred direction except for a ridge or recess extending in a direction transverse to the aforesaid preferred direction, the method which includes molding the condensation product about the core to the shape of the desired article including the ridge or recess, and stripping the article directly from the non-collapsible core by relatively moving the article and the non-collapsible core solely in the aforesaid preferred direction while the article is still hot, the presence of the ridge or recess on the core being disregarded and taken care of by the elasticity of the molded material.

1,916,693. MOLDED CLOSURE. GEORGE K. SCRIBNER, Boonton, N. J., assignor to Boonton Manufacturing Company, Boonton, N. J., a Corporation of New Jersey. Filed May 5, 1930. Serial No. 449,851. 8 Claims. (Cl. 215—40.)



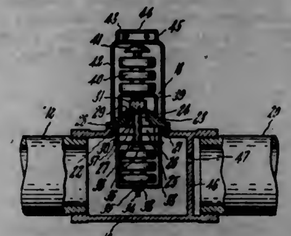
1. A liner recess closure cap made directly in finished form by a simple molding operation out of a synthetic resin composition which, during the final stages of the molding operation, is somewhat elastic and thereby adapted to be removed from a molding pin despite interlocking of the molding pin with the liner recess, said cap having an inner surface molded to provide holding means and a vacant annular liner recess located above the holding means and defined by a liner supporting ledge, said recess serving to subsequently receive and retain a separate liner in place within the cap.

1,916,694. IGNITION COIL AND CONTROLLING DEVICE THEREFOR. WOLFGANG E. SCHWAREMANN, Longmeadow, Mass., assignor to United American Bosch Corporation, Springfield, Mass., a Corporation of New York. Filed May 6, 1932. Serial No. 609,666. 2 Claims. (Cl. 123—148.)



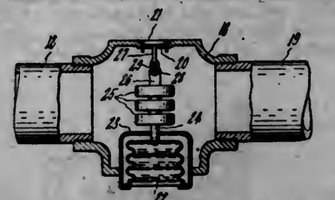
1. An ignition coil comprising a primary and a secondary winding, a circuit breaker comprising a fixed and movable contact and a cam having one or more projections to control the circuit of said primary winding, a fixed terminal connected to each end of the secondary, a permanent connection for a spark plug to be united to each end of the secondary winding, and a substantially circular member of conductive material rotating with said cam and having a projection on its circumference to ground the terminals of the secondary by turns, said member and said terminals being so disposed that said projection, as said member rotates, passes in proximity to each of said terminals in succession but without making contact therewith, in conjunction with the action of said cam, whereby when the primary circuit is opened one of the ends of the secondary will be connected to ground and a spark will be produced at the plug connected to the other terminal of the secondary.

1,916,695. VACUUM CHECK AIR VALVE FOR VAPOR HEATING SYSTEMS. WILLIAM K. SIMPSON, Waterbury, Conn., assignor to Hoffman Specialty Company, Waterbury, Conn., a Corporation of Illinois. Filed Oct. 9, 1930. Serial No. 487,439. 8 Claims. (Cl. 236—61.)



2. A valve of the character described comprising a casing having inlet and outlet openings, a thermostatically controlled valve for said outlet arranged to be closed under high temperature conditions and opened under low temperature conditions, a check valve for said inlet, and a thermostat external to the casing and disconnected from said check valve but arranged to unseat the same when affected by high temperature conditions only.

1,916,696. VACUUM AIR VALVE FOR VAPOR HEATING SYSTEMS. CHARLES W. STEWART, Waterbury, Conn., assignor to Hoffman Specialty Company, Waterbury, Conn., a Corporation of Illinois. Filed Oct. 9, 1930. Serial No. 487,440. 18 Claims. (Cl. 236—61.)



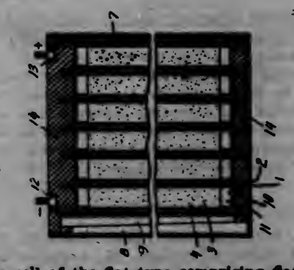
3. A vacuum check vent valve comprising a casing having a vent opening, a valve body controlling said opening and combined thermostatic and pressure responsive members conjointly associated to control said valve body and having a lost motion connection therewith.

1,916,697. PROCESS FOR THE PREPARATION OF ALKALINE EARTH ALUMINATES. JOSEF STÖHR, Waldshut, Germany, assignor to the Firm of Lonza-Werke Elektrochemische Fabriken G. m. b. H., Waldshut-Badenia, Germany, a Corporation of Germany. Filed Nov. 27, 1931, Serial No. 577,715, and in Germany Dec. 6, 1930. 7 Claims. (Cl. 23—52.)

1. Process of preparing calcium aluminate comprising preparing a melt consisting of calcium carbide and calcium oxide at an excessively high temperature, introducing into the said melt an aluminous material, drawing off the metal alloy formed by reduction of the impurities of said aluminous compound, subsequently drawing off the molten aluminate and disintegrating same.

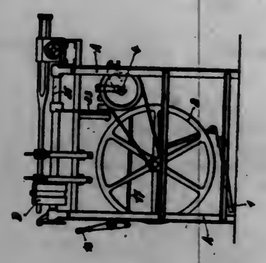
7. The process of preparing alkaline earth aluminates which comprises thoroughly mixing about 300 parts of burnt lime with about 125 parts of anthracite, melting said mixture in an electric furnace to establish a molten bath at an excessively high temperature and to cause a reaction producing calcium carbide, introducing into said molten bath at an excessively high temperature about 900 parts of dried bauxite, continuing the application of heat to maintain said bath in a molten condition and to cause a reaction producing calcium aluminate and an alloy containing iron, silicon and titanium, permitting said molten bath to stratify whereby the alloy containing iron, silicon, titanium and impurities sinks to the bottom thereof and relatively pure calcium aluminate floats to the top thereof, and tapping said alloy from said bath whereby relatively pure calcium aluminate is produced.

1,916,698. DRY BATTERY. OLIVER W. STOREY, Madison, Wis., assignor, by mesne assignments, to Burgess Battery Co., Madison, Wis., a Corporation of Wisconsin. Filed Oct. 1, 1927. Serial No. 223,835. 15 Claims. (Cl. 136—111.)



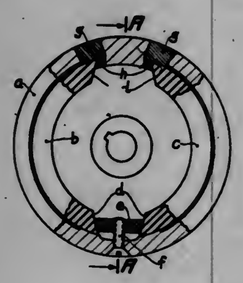
7. A dry cell of the flat type comprising flat electrodes in parallel spaced relation, a depolarising mix cake between the electrodes and a strip of zinc chloride resisting material surrounding the mix cake and spaced therefrom to form an expansion space.

1,916,699. MEANS FOR STRINGING TENNIS RACKETS WITH STRINGS. SIEGFRID TAUBER and LADISLAUS FISCHMANN, Vienna, Austria, assignors, by mesne assignments, to Dunlop Rubber Company Limited, London, England. Original application filed Mar. 19, 1929, Serial No. 348,328, and in Austria Oct. 17, 1928. Divided and this application filed July 9, 1931. Serial No. 549,675. 3 Claims. (Cl. 254—161.)



1. In a tennis racket stringing machine, the combination with oppositely arranged string clamping devices for tensioning the transverse racket strings, of a support for each device, actuating means for said clamping devices comprising a main driving shaft, pulleys operable from said driving shaft and cords connecting said pulleys with said supports, and means for selectively coupling said pulleys to said driving shaft to selectively operate said clamping devices.

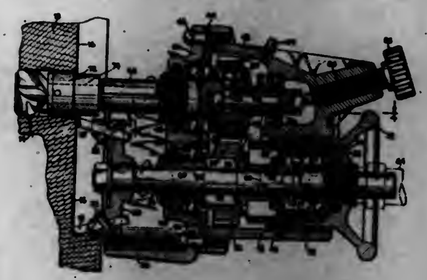
1,916,700. FLYWHEEL MAGNETO IGNITION APPARATUS. WILHELM WALTHER, Stuttgart, Germany, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Filed Aug. 8, 1931, Serial No. 556,004, and in Germany Sept. 1, 1930. 3 Claims. (Cl. 171—209.)



1. A flywheel magneto device, comprising a magnet casing of circular form, a pair of opposed segmental-shaped magnets having bevelled ends, a displaceable wedge adapted to engage one end of each magnet, a pole piece cast in said casing at a point diametrically opposite said wedge and extending inwardly from said casing, said pole piece having a pole face on the outside of said casing and having a dove-tailed face on the inside of said casing for receiving the opposite end of one of said magnets.

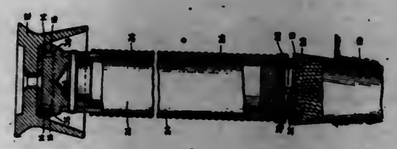
1,916,701. PILE BORING AND FACING MACHINE. ELIHU D. WATT, La Grange, Ill., assignor to Raymond Concrete Pile Company, New York, N. Y., a Corporation of New Jersey. Filed June 6, 1931. Serial No. 542,566. 4 Claims. (Cl. 144—3.)

1. In apparatus of the class described, in combination, means comprising a chuck and a drill bit for drilling a hole in the head of a pile, and means for facing said pile head, said drilling means serving to support said



facing means and said facing means being adapted to revolve on its own axis in an orbit about said drilling means during the facing operation.

1,916,702. COMPOSITE PILE JOINT. ELIHU D. WATT, Plainfield, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 20, 1932. Serial No. 633,966. 11 Claims. (Cl. 61—53.)



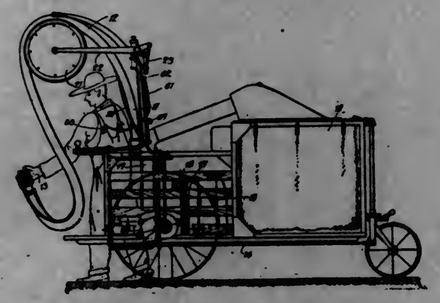
1. In the method of forming a composite pile having a lower section of wood and a shell surmounting said lower section, said shell having a lower end of restricted diameter, the steps of mounting said shell on said lower section whereby said restricted portion enters an annular groove in the flat top of said lower section, flaring out a portion of said lower section into engagement with said restricted portion, and then filling the shell with concrete.

1,916,703. ELECTROMAGNETIC ACOUSTIC DEVICE. JACK WHITE, Palmers Green, London, and EDWIN MALCOLM PAYNE, Southall, England, assignors to Victor Talking Machine Company, a Corporation of New Jersey. Filed July 9, 1930, Serial No. 466,670, and in Great Britain Aug. 20, 1929. 3 Claims. (Cl. 179—100.41.)



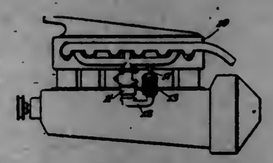
2. In an electro-magnetic device of the character described, the combination of means providing a magnetic circuit within said device, said magnetic circuit having a normal cross-sectional area and a region along its length wherein said cross-sectional area is reduced, and a coil of insulated wire of magnetic material located in said region of reduced cross-sectional area, said coil being thereby included in and forming part of the magnetic circuit and serving to restore to substantially normal cross-sectional area the magnetic circuit within said region.

1,916,704. DRIVING MECHANISM FOR COTTON PICKERS. WALLACE R. WILLETT, New York, N. Y., and Harvey E. Brown, St. Louis, Mo., assignors to American Cotton Picker Corporation, St. Louis, Mo., a Corporation of Delaware. Filed Oct. 10, 1930. Serial No. 487,659. 9 Claims. (Cl. 56—13.)



1. In an apparatus of the type described, a vehicle to accompany an operator, driving mechanism for said vehicle, and control means having a part to engage the operator and to disconnect said driving mechanism when the vehicle has advanced to a definite position relative to the operator and automatically to connect said driving mechanism when said relative advance of said vehicle is lessened.

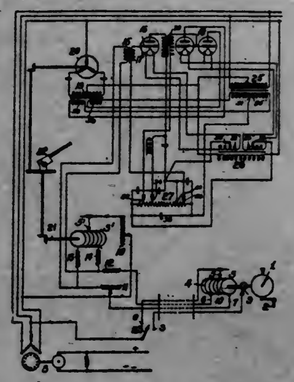
1,916,705. FLAME ARRESTER FOR CARBURETORS. LEWIS W. WILLIAMS, Morris Township, Morris County, N. J., assignor to Motor Improvements, Inc., Newark, N. J., a Corporation of Delaware. Filed Apr. 9, 1930. Serial No. 442,770. 4 Claims. (Cl. 123—142.)



1. In combination with the carburetor of an internal combustion engine, a tubular member composed of a helically wound ribbon having projections spacing apart successive turns, the passages thus provided being sufficiently restricted to prevent the passage of flame therethrough, a fluted hollow member enclosed by and supporting said member and forming channels therewith, said supporting member having apertures establishing communication between said channels and the interior of the supporting member, and a conduit leading from the interior of the supporting member to the carburetor.

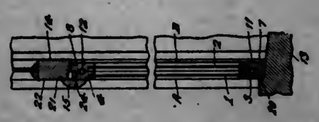
1,916,706. REMOTE CONTROL SYSTEM. BRUNO A. WITTKUHNS, Chatham, N. J., and FREDERIC M. WATKINS, Forest Hills, N. Y., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Oct. 8, 1930. Serial No. 487,858. 6 Claims. (Cl. 172—239.)

2. In a remote control system, a sending device comprising a two-part resistance and variable means for increasing one part as the other is decreased, a controlled device including a three-phase motor, a two-part resistance, and means driven by said motor for varying the same as said first-named resistance is varied, an amplifier unit in circuit between said resistances and motor,



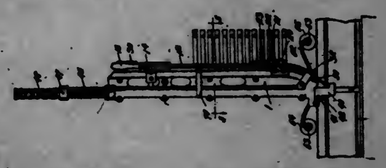
and a three-phase source having a phase connected to said resistances and another phase connected to said motor.

1,916,707. CLOSURE. FRITZ S. ZAISSER, Bronx, N. Y. Filed Jan. 30, 1932. Serial No. 589,809. 2 Claims. (Cl. 156—38.)



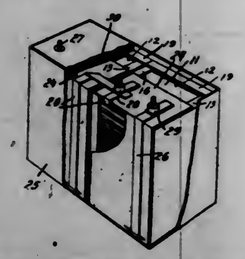
1. In a closure, in combination: two frames, each including a top, a bottom and two side rails, the bottom rail of one frame being slightly below the bottom rail of the other frame, and the top rail of the one frame being slightly above the top rail of the other frame, whereby the one frame will alone contact the sill of a window and the lower rail of a sash; the other frame including a shoulder formed to contact the inside face of the lower rail of a sash and formed with a cut away portion for the reception of the front stop of a window; the inside faces of the outside side rails of each frame being in line.

1,916,708. SPIKE SETTING DEVICE. FREDERICK F. ZAVATKAY, Winsted, Conn. Filed Feb. 5, 1932. Serial No. 591,069. 10 Claims. (Cl. 104—17.)



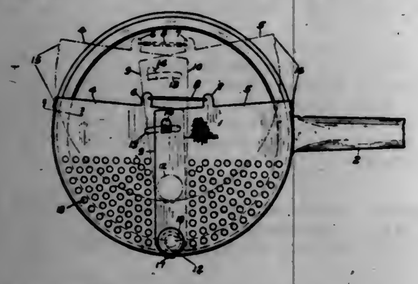
1. A spike setting device of the character described comprising a frame member formed with a hammer rod bearing and with a magazine guideway adapted to receive spikes therein, said guideway being of curved form at its lower end portion for guiding the spikes to a driving position beneath the hammer bearing, yieldable means adapted to support the spikes in position for driving, a hammer rod fitting to the bearing, resilient means normally operative to support the hammer rod to allow feeding of the spikes thereunder, a manually operable escapement means positioned to support the spikes and to successively release the spikes to descend into driving position.

1,916,709. DRY BATTERY. JAMES GARFIELD ZIMMERMAN, Madison, Wis., assignor, by mesne assignments, to Burgess Battery Co., Madison, Wis., a Corporation of Wisconsin. Filed Oct. 1, 1927. Serial No. 223,341. 11 Claims. (Cl. 136—111.)



1. A dry battery comprising a plurality of flat electrodes in parallel spaced relation, each cell except the negative end cell in said battery comprising a composite flat zinc anode, a paper partition with slitted edges and slightly smaller than said anode and in contact therewith, a flat depolarising mix cake slightly smaller in area than said partition and in contact therewith, a composite flat cathode in contact with said mix cake, an expansion space adjacent three of the four edges of said mix cake, a pitch seal closure for said expansion space, a tape encircling said battery holding said cell parts in intimate contact, paper trays adjacent the edges of said electrodes and on the three sides of said battery having expansion spaces, a relatively thick cheesecloth reenforced pitch seal on the fourth side of said battery, a casing for said battery, and a finishing seal for said casing with terminals projecting therethrough.

1,916,710. STRAINING ATTACHMENT FOR PANS AND KETTLES. ROY W. ALEXANDER, Newark, N. J. Filed June 11, 1931. Serial No. 543,583. 8 Claims. (Cl. 53—8.)



1. A straining attachment for pans, kettles, and the like comprising two sector-shaped pieces having drain holes therein and pivoted together near the arcuate edge of the two sectors in movable overlapping relationship, means for assisting in holding and guiding the two sectors as they move one in respect to the other, a plurality of clips positioned on one side of said sectors for the purpose described, means for manipulating the attachment, and a spring connected between said sectors for automatically operating said sectors to adjust themselves about the pivot to allow the clips to engage the rim of the vessel to which the attachment is being applied.

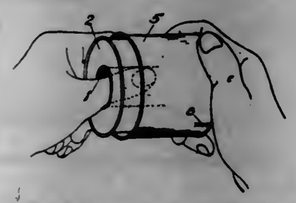
1,916,711. FUSE TIGHTENER. FREDERICK W. ALLGEIER, Lakewood, Ohio, assignor to The Leonard Electric Mfg. Company, Cleveland, Ohio. Filed Apr. 11, 1932. Serial No. 604,466. 7 Claims. (Cl. 200—124.)

1. In a device of the class described, the combination of a fuse having end ferrules, clips into which the ferrules are engaged, yieldable means for engaging the opposite free end portions of the clip, and means associated with



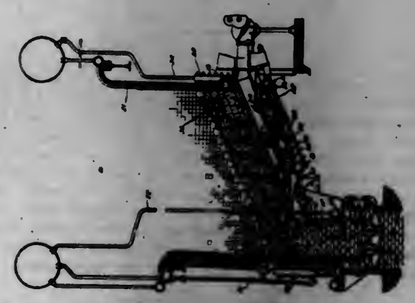
said yieldable means and adapted to engage the ferrule for buckling said yieldable means so as to effect a tightening action of the clip upon the ferrule.

1,916,712. RECEPTACLE FOR MATERIAL-CARRYING SPOOLS. GEORGE D. ATWOOD, Brooklyn, N. Y. Filed June 4, 1930. Serial No. 459,225. 3 Claims. (Cl. 206—52.)



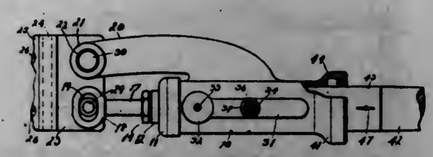
1. A sheet metal receptacle for a material-carrying spool having annular flanges at its ends, said receptacle comprising a casing provided at or near its lower end with a plurality of inwardly-pressed projections extending longitudinally of the casing and frictionally engaging the outer edge of the inner flange of the spool during and on completion of the inward movement of the spool, whereby the spool is frictionally locked to the casing at that flanged end, the outer end of the receptacle being of larger diameter than the outer flange of the spool whereby the spool may be rocked sidewise at its outer end to facilitate its disengagement from said projections and the pulling thereof from the receptacle.

1,916,713. WATER COOLED STOKER. JOSEPH S. BENNETT, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 11, 1929. Serial No. 398,924. 15 Claims. (Cl. 122—4.)



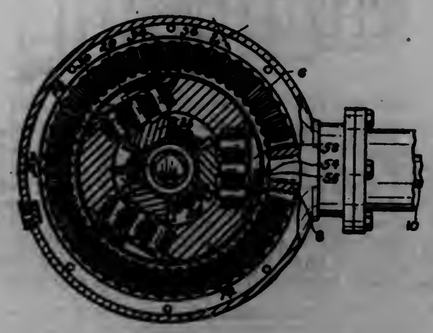
1. In combination with a stoker furnace having a crusher pit, a front wall and the usual under-feed and over-feed sections extending from the front wall to the upper end of the crush pit wall, means for fluid cooling the tuyère sections and said crusher pit wall including fluid circulation tubes extending from said front wall to the lower end of said crusher pit wall, said tubes being formed in sections, there being a header at the upper end of the crusher pit wall with which adjacent ends of the sections communicate.

1,916,714. SELF CONTAINED TRAINING AND EXERCISING OAR. ROBERT F. BURKE, Phoenixville, Pa. Filed July 9, 1932. Serial No. 621,615. 4 Claims. (Cl. 272—72.)



1. In a self contained training and exercising device for duplicating the movements of rowing, a cylinder, an arm extending from said cylinder, a member to which said arm is pivoted, a piston fitted to slide within said cylinder, a piston rod extending from the piston through one head of the cylinder, said piston rod being pivoted to said member in such manner as to provide for a sliding movement upon its pivot point, a by-pass leading from one side of the piston to the other side thereof, means for regulating the flow of a fluid contained in said cylinder through said by-pass, and means for regulating the flow of said fluid through openings in the piston.

1,916,715. DIFFERENTIAL BALANCING MEANS. DANA D. COREY, Seattle, Wash. Filed July 29, 1932. Serial No. 626,087. 2 Claims. (Cl. 74—99.)

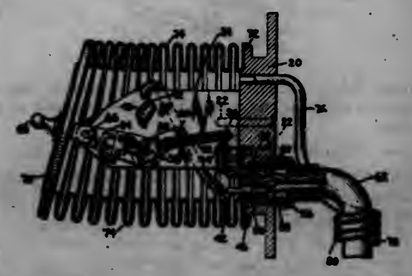


1. In a balancing means for differential transmission mechanism, the combination with an axle housing and a differential housing therein, and planetary gearing in the latter housing, of a gear-pump unit complementary to and operated by each planetary gearing, means for circulating oil to said pump units including collector scoops mounted on the differential housing, said units having opposed pump chambers, and spring actuated check valves controlling flow of oil to said chambers.

1,916,716. PROCESS FOR THE MANUFACTURE OF PORTLAND CEMENT. LOUIS A. DAHL and WILSON C. HANNA, Colton, Calif., assignors to California Portland Cement Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 8, 1932. Serial No. 585,636. 5 Claims. (Cl. 106—25.)

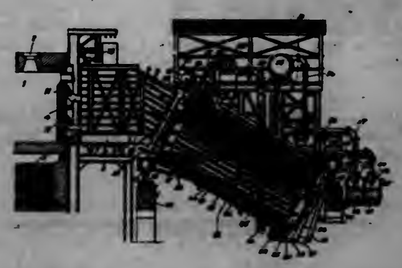
1. The process of making Portland cement that includes, first calcining to incipient fusion material containing stack dust and over-saturated with lime, to produce a clinker that is over-saturated with lime, and then mixing the clinker with lime-deficient Portland cement clinker and calcining the mixture to produce a final Portland cement clinker, the composition of said mixture being such that the lime deficiency in said final Portland cement clinker does not substantially exceed 5%.

1,916,717. SAFETY ELECTRIC SWITCH. CLEARENCE A. DE GIERS, Forest Hills, N. Y., assignor to The Liquidometer Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed Aug. 21, 1930. Serial No. 476,801. 10 Claims. (Cl. 200—168.)



1. In an electric switch, a vacuum chamber, a contact button and a contact blade in said chamber, means for deforming said chamber whereby said blade is moved into or out of contact with said button, and means for automatically preventing said blade and said button from contacting when the vacuum in the chamber is broken.

1,916,718. APPARATUS FOR THE DRY COOLING OF COKE. ALFRED DIERSCHKE, Essen, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa., a Corporation of Delaware. Filed Dec. 14, 1931, Serial No. 580,949, and in Germany Dec. 10, 1930. 11 Claims. (Cl. 202—228.)



1. The combination with a coke oven battery comprising coking chambers and coke conveyor rails extending longitudinally of the battery opposite the coking chambers for the conveyance of coke from the coking chambers, of a carriage adapted for being propelled along said rails, a steeply inclined closed dry cooling coke container mounted on said carriage and provided with upper and lower closable coke inlet and outlet openings for receiving hot coke from the coking chambers; means cooperating with said container and carried therewith by said carriage for effecting a recirculation of an inert cooling gas through hot coke in said container, and means carried with said container by said carriage and adapted for cooling the recirculating inert coke cooling gas by indirect heat exchange.

1,916,719. DRAPERY SUSPENSION DEVICE FOR CURTAINS. GEORGE W. DOVER and DELMAR S. DOVER, Edgewood, R. I., assignors to Dovercraft Company, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Oct. 22, 1931. Serial No. 570,416. 12 Claims. (Cl. 156—20.)

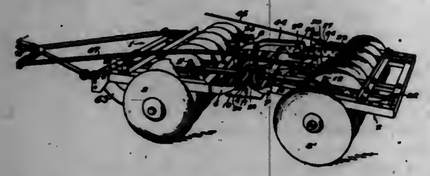
4. In a drapery suspension device for curtains, a pair of hollow telescoping sections having the longitudinal edges thereof spaced from each other vertically to form

a slot, a filler member secured to one end of each of said sections and serving as a closure for the slot, the filler member mounted upon the smaller of said telescoping



sections having a portion overlying a part of the end thereof to increase the outer diameter of the end of said section.

1,916,720. INTERGEARED OFFSET DISK HARROW. JACOB V. DYER, Bell, Calif. Filed Feb. 2, 1931. Serial No. 512,877. 7 Claims. (Cl. 55—83.)



1. In a tractor operated ground working implement, forward and rearward framed gangs of ground working tools, means interconnecting the gangs for horizontal swinging movement comprising intermeshing gear segments mounted on the respective gangs, and draft means for the gangs; said draft means comprising a draft frame for the forward gang, an angular draft hitch bar pivoted to said draft frame and to which the tractor is connected, and a draft bar connected to the hitch bar and to the rear gang to angle both gangs into working position by a direct forward pull of the tractor; and locking means to lock said two gangs in a parallel, non-working position.

1,916,721. INTERGEARED OFFSET DISK HARROW. JACOB V. DYER, Bell, Calif. Filed June 15, 1931. Serial No. 544,354. 41 Claims. (Cl. 55—83.)



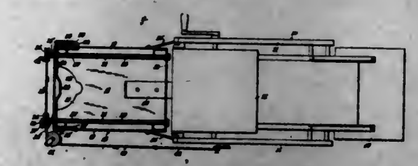
1. A ground working implement comprising forward and rearward framed gangs of ground working tools, means interconnecting the gangs for relative movement in a horizontal plane and including a pair of contacting rolling surfaces restricting such relative movement to a rolling movement, means for holding the rolling surfaces in contact, and draft means for the gangs.

1,916,722. DIATHERMY. FRANK M. ENDE, Los Angeles, Calif. Filed June 15, 1931. Serial No. 544,491. 2 Claims. (Cl. 174—89.)



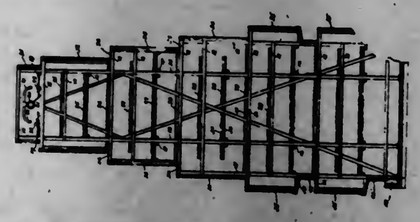
1. Therapeutic apparatus for local application of high frequency electrical current to tissue comprising an insulating handle, conductors carried and insulated by said handle, and a pair of separate electrodes carried and supported by said conductors, certain of said electrodes being rotatable and having eccentric tip portions whereby upon rotation of the electrodes about the axes of the conductors to which they are attached the spacing between the electrodes may be varied.

1,916,723. SLIP-SHEETER. BERNARD FERBAR, New York, N. Y. Filed Aug. 26, 1930. Serial No. 477,848. 8 Claims. (Cl. 271—23.)



1. A slip-sheeter comprising a pair of rotatable members including sheet-supporting portions adapted to support a plurality of slip-sheets in a stacked relation, and including sheet-engaging means adapted to engage the lowermost of said sheets and forcibly remove it from its supported position while the remaining sheets are supported by said supporting portions.

1,916,724. ATMOSPHERIC COOLING TOWER. PETER E. FLUOR, Anaheim, Calif., assignor to The Fluor Corporation Ltd., Los Angeles, Calif., a Corporation of California. Filed July 5, 1932. Serial No. 620,790. 22 Claims. (Cl. 261—113.)



1. In an atmospheric cooling tower comprising a frame, a substantially vertically extending apertured baffle mounted at one side of the tower, a panel extending inwardly of the tower, from the lower end of said baffle, a vertically extending apertured baffle offset inwardly of the tower from the first mentioned baffle, and extending downwardly from said panel, and a plurality of vertically spaced decks within the tower, both said baffles being spaced transversely of the tower from said decks.

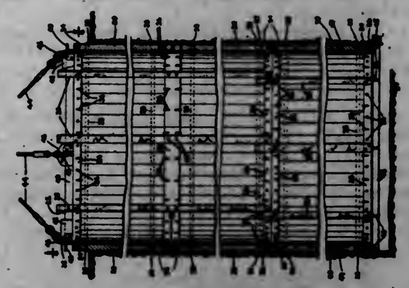
1,916,725. LAWN EDGER. ARTHUR LEROY HARBOUR and HARRY ALBRECHT, Portland, Oreg. Filed July 27, 1932. Serial No. 625,160. 3 Claims. (Cl. 97—227.)



1. In a lawn edger, a handle, a separable yoke secured to said handle, a rotatable flat disc carried on one portion of said yoke, and a dished disc rotatably carried on the other portion of said yoke, the axes of said discs being angularly disposed with relation to each other.

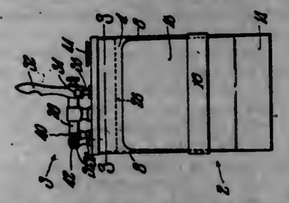
1,916,726. LINING FOR MOLDS FOR CONCRETE COLUMNS. LINTON HART, Englewood, N. J., and GORDON FLETCHER, New York, N. Y., assignors to Caisson Contracting Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 9, 1931. Serial No. 573,840. 10 Claims. (Cl. 61—41.)

1. A section of a lining adapted to be placed in a hole in the ground to form a mold for a concrete column, comprising a steel skeleton having longitudinal circumferentially spaced strips with external rings spaced longitudinally of said strips and attached thereto to provide an unobstructed interior for the lowering of the



digging bucket, in combination with wooden staves between said rings whereby a tubular shell section is formed.

1,916,727. SMOKER'S APPARATUS. LOUIS HASBROUCK, Springfield, Mass. Filed July 10, 1930. Serial No. 466,948. 1 Claim. (Cl. 206—41.4.)



As a new article of manufacture, the combination of a co-operating cigarette case and lighter to form a unitary structure, the said lighter including rigid upper, lower, front, rear and side walls to form a reservoir and lighting mechanism carried by said upper wall, the said case including front, rear and side walls of non-rigid light-weight material and having open ends, the said walls of the lighter being inserted at one of the open ends within the said walls of the case and secured thereto whereby the said end of the non-rigid case is made relatively rigid by the walls of the lighter and whereby the rigid lower wall of the lighter serves as an end wall of the case and provides a protection for cigarettes in said case, the side walls of said case being bendable along longitudinal lines whereby the front and rear walls may be moved between a position parallel with said side walls of said lighter and a position where the walls converge therefrom, a closure flap of flexible material carried by the end of the rear wall of the case opposite the said rigid end and means on the front wall of said case for engaging said flap.

1,916,728. STORAGE BATTERY TERMINAL. THOMAS HILL, Detroit, Mich. Filed Dec. 26, 1930. Serial No. 504,793. 1 Claim. (Cl. 173—259.)



A storage battery terminal of the character described, having a body with a clamping portion formed integral thereon and adapted to engage a battery post, means within the said clamping portion for accommodating a lubricating paste, comprising a plurality of uniformly spaced recesses extending completely through the inner surface of the said portion and the upper end of the said recesses terminating within a countersunk surface within the upper end of the aforesaid clamping portion of the device.

1,916,729. SMOKER'S ARTICLE. HARRY H. HONIGBAUM, New York, N. Y. Filed Feb. 5, 1930. Serial No. 425,983. 1 Claim. (Cl. 131—12.)



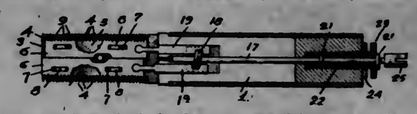
A pipe having a stem comprising a one piece integral construction having intermediate its ends two separate conduits merging with sweeping curves at their opposite ends into two single conduits, leading respectively to the opposite ends of the stem, whereby a pipe cleaner may be passed through the stem from one end thereof to the other through either of the intermediate separate conduits, and a bowl supported rigidly on one end of the stem and provided with a tobacco cavity from the base of which a smoke passage leads to the single conduit in the adjacent end of the stem.

1,916,730. PAD HOLDER. JOHN B. KEMP, Ridgewood, N. J., assignor to Clark Loose Leaf Manufacturing Company, a Corporation of New York. Filed Aug. 9, 1930. Serial No. 474,122. 7 Claims. (Cl. 129—1.)



3. A pad holder including a supporting base, apertured to receive portions of rings, forming binders for a pad of leaves, and a bracket carried by the base and forming an end embracing structure for the pad and an abutment for the rings.

1,916,731. AUTOMATIC HAIR-CLIPPER. ROBERT KNUDSEN, Martinez, Calif. Filed Nov. 16, 1932. Serial No. 644,662. 7 Claims. (Cl. 30—1.)

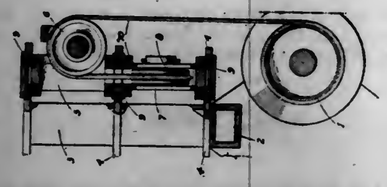


1. An automatic hair-clipper comprising a handle having an extension on one end thereof; a cutting blade detachably mounted upon said extension and having opposite longitudinal edges provided with serrated cutting teeth; a pair of blades slidably mounted upon said plate and each provided with serrated cutting teeth registering, when either plate is in either extreme position, with the teeth on said plate; a shaft rotatably mounted within said handle; and reciprocating means mounted upon said shaft and operatively connected to said blades for simultaneously reciprocating said blades in opposite directions whereby the cutting teeth of said blades may operate in conjunction with the teeth of the plate as cutting elements.

1,916,732. SPOOLING DEVICE FOR DRUM CABLES. ROBERT G. LE TOURNEAU, Stockton, Calif. Filed July 27, 1932. Serial No. 625,052. 5 Claims. (Cl. 254—190.)

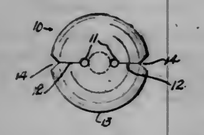
1. A spooling device for drum cables comprising with a drum, a sheave whose axis is parallel to that of the

drum and from one side of which the cable directly passes to the adjacent side of the drum, a housing in which said sheave is mounted and a pivot mounting means for



said housing disposed at right angles to the drum axis centrally between the ends of the drum, and tangent to the periphery of the sheave on the side opposite to that from which the cable leads to the drum.

1,916,733. SELF LOCKING SLIP UNDER BUTTON. CHARLES A. LIGHT, Brooklyn, N. Y. Filed July 29, 1932. Serial No. 625,691. 1 Claim. (Cl. 24—90.)



A slip-under button for mattress tufts, said button consisting of rubber and having a relatively thin edge and a substantial circular convexity on one side thereof to form a depressed seat for the button in a mattress, said button having an integral reinforcing control projection on said one side thereof for reinforcing the button, said button additionally being provided with a pair of apertures adjacent to said projection, the apertures being on opposite sides of said projection, elastically self-closing slits being provided in said button, said slits extending in opposite directions from said apertures to the periphery of the button, and said slits terminating in notches at said periphery for guiding strands to said apertures, the strands being retained in the apertures by the self-closing action of the said slits.

1,916,734. AUTOMATIC LOCATOR RECORDER. EVERETT LOGAN, Portland, Oreg., assignor of one-half to Avan B. Cummons, Portland, Oreg. Filed Feb. 2, 1932. Serial No. 590,364. 3 Claims. (Cl. 116—29.)

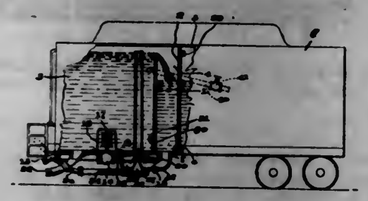


1. In a device of the class described, the combination of a case, a delineated strip removably securable to the case, graduations disposed adjacent one edge of the strip, an endless band graduated into linear graduations at either side of a pointer carried by the endless band, a screw rotatably mounted within the case, means disposed between the pointer and the screw to move the pointer and the band when the screw is rotated, selective power means for predetermining the direction of rotation of the screw and the direction of rotation and the direction of movement of the band, and means for automatically stopping the power rotation of the graduated endless band when a predetermined point is reached in the travel of the pointer carrying block and for placing the drive in a neutral driving position.

1,916,735. LIQUID FUEL. GORDON MACLEAN, Flushing, and EDGAR G. SIBSON, Jr., New York, N. Y., assignors of one-third to Harlow D. Gaines, New York, N. Y. Filed May 10, 1928. Serial No. 276,802. 4 Claims. (Cl. 44—9.)

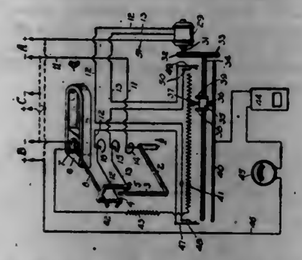
1. As a composition of matter, a liquid fuel containing in solution therein a small amount of a manganese soap.

1,916,736. LOCOMOTIVE FEED WATER HEATER OF THE TANK TYPE. THOMAS C. MCBRIDE, Philadelphia, Pa., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Sept. 10, 1930. Serial No. 480,842. 8 Claims. (Cl. 122—434.)



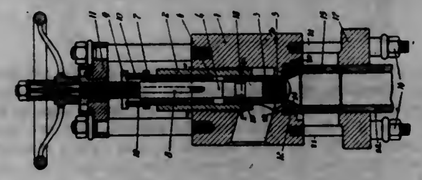
1. In a feed water heater, a locomotive tender having a heated water compartment, a cold water supply compartment, an overflow compartment between said heated water compartment and cold water supply compartment, an injector structure for injecting water and steam into said heated water compartment, said injector having connection with the overflow compartment for receiving water therefrom, the walls of said overflow compartment having valved openings therein communicating respectively with the heated water compartment and the cold water supply compartment, said valves being so constructed and arranged whereby when the water in the overflow compartment falls below a predetermined level cold water will flow from the cold water supply compartment into the overflow compartment and when water falls below a predetermined level in the heated water compartment water will flow from the overflow compartment direct into the heated water compartment.

1,916,737. INSTALLATION FOR REPEATING INDICATIONS OF MOVEMENT AT A DISTANCE. CYRIL MIDWORTH, London, England, assignor to Evershed & Vignoles, Limited, London, England. Filed May 28, 1926, Serial No. 112,417, and in Great Britain Feb. 11, 1926. 9 Claims. (Cl. 177—351.)



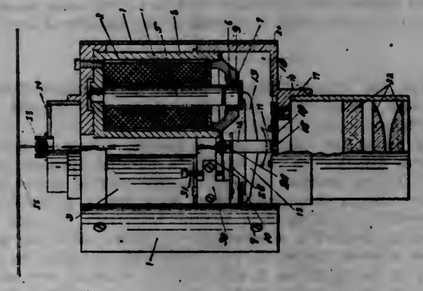
1. An installation for repeating indications at a distance having in combination a plurality of devices each having an angularly moving part which are electrically responsive to variations in current flow and have similar electrical and mechanical characteristics, contacts on the angularly moving part of one of said devices, contacts on the device the angular movements of which are to be repeated at a distance for cooperation with the first named contacts, an electrical resistance, a contactor for said resistance, a reversible electric motor for displacing said contactor along said resistance, and a source of electrical energy, the supply of current to said motor being controlled by the cooperating contacts so that movement of the contactor is interrupted when the value of that part of the resistance which is connected electrically in series with all the electrically responsive devices and a source of electrical energy allows a current to flow directly proportional in value to the degree of movement to be repeated thus similarly deflecting the moving parts of all the electrically responsive devices.

1,916,738. VALVE. HANS MILLER, Berlin-Lichterfelde, and MARTIN EULE, Berlin-Spandau, Germany, assignors to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany. Filed July 7, 1931. Serial No. 549,142. 6 Claims. (Cl. 251—50.)



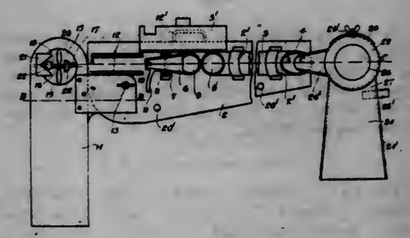
3. A valve consisting of a valve body, a valve head disposed in said body, a valve spindle for operating said head and a valve seat for said head disposed in said body, a cylindrical stuffing box bushing fixed in said body, and having means for rotatably guiding the valve spindle, packing material in said bushing surrounding the spindle and a packing gland on the spindle disposed in the upper sleeve end, a pair of pressure members, spaced a distance above said gland, one on each side of the spindle, and removable spacers between said members and said gland, and means for ofrcing said members toward the valve body to move the gland into said bushing for compressing the packing therein, said spacers having sufficient depth to permit, when withdrawn the removal of the gland from said bushing sufficiently far for inserting additional packing material into said bushing.

1,916,739. ELECTRODYNAMIC PHOTOGRAPHIC SOUND DEVICE. FREEMAN H. OWENS, New York, N. Y., assignor to Owens Development Corporation, New York, N. Y., a Corporation of New York. Filed July 31, 1929. Serial No. 382,567. 3 Claims. (Cl. 88—61.)



2. A light valve for photographic sound recording comprising a substantially U-shaped member resiliently mounted and laterally extending arms thereon provided with voice coils responsive to electrically translated sound, the closed side of said U-shaped member comprising a shutter.

1,916,740. APPLIANCE FOR GOLF PRACTICE. BERTRAM VERNON RADLEY, Shaldon, near Teignmouth, England. Filed Feb. 17, 1930, Serial No. 428,982, and in Great Britain Mar. 1, 1929. 1 Claim. (Cl. 273—33.)



An appliance for golf practice comprising a ball magazine, a teeing cup associated therewith and means for supplying balls to the said teeing cup one by one from said magazine at the will of the player, the said means comprising a pivoted cradle adapted to hold a ball and to be recharged automatically from the magazine together with means for rocking said cradle about its pivot so as to raise the ball and cause it to run down an inclined slope and take up its position automatically on said tee, in combination with an eccentrically positioned stop adjacent said tee against which the ball is adapted to strike when delivered from said pivoted cradle in order to impart a spin to the ball on contacting with said stop.

1,916,741. PRODUCTION OF ALIPHATIC-AROMATIC KETONES. RUDOLF SCHMIDT, Berlin-Grunewald, Germany, assignor to Schering-Kahlbaum A.-G., Berlin, Germany. Filed June 27, 1930, Serial No. 464,825, and in Germany July 9, 1929. 6 Claims. (Cl. 260—131.)

1. A process for the production of acetophenone comprising passing the vapors of aromatic compounds of the class consisting of phthalic acid and phthalic anhydride together with the vapors of acetic acid at temperatures of 300° to 500° C. over catalysts which may be used for the production of ketones from corresponding acids.

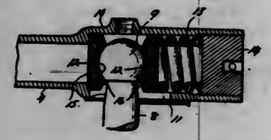
1,916,742. MANUFACTURE OF MONOBROMINATED MENTHANE. WALTER SCHOELLER, Berlin-Westend, and ERICH BORGWARDT, Berlin-Pankow, Germany, assignors to Schering-Kahlbaum A.-G., Berlin, Germany. Filed Dec. 27, 1929, Serial No. 416,998, and in Germany Dec. 31, 1928. 2 Claims. (Cl. 260—160.)

2. Process for the production of a monobrominated menthane comprising reacting upon paramenthane, with a substantially equal molecular quantity of bromine in the presence of iodine at a temperature of about 0° C.

1,916,743. PRODUCTION OF ACROLEIN. ERWIN SCHWENK, MAX GEHRKE, and FRANZ AICHNER, Berlin, Germany, assignors to Schering-Kahlbaum A.-G., Berlin, Germany. Filed June 7, 1930, Serial No. 459,825, and in Germany June 15, 1929. 15 Claims. (Cl. 260—138.)

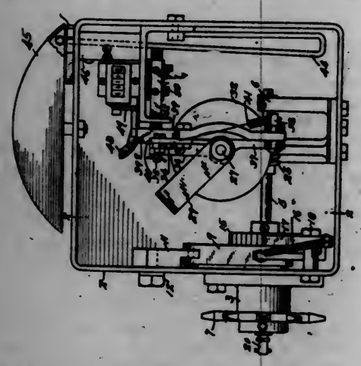
1. The process for the production of acrolein comprising passing the vapors of glycerine at a temperature of about 300–600° C. over phosphates, of elements included in group 1 of the periodic system.

1,916,744. BALL AND SOCKET CONNECTION. NEWTON SKILLMAN, Highland Park, Mich., assignor to O. & S. Bearing Co., Detroit, Mich., a Corporation of Michigan. Filed Jan. 3, 1927. Serial No. 158,775. 3 Claims. (Cl. 308—238.)



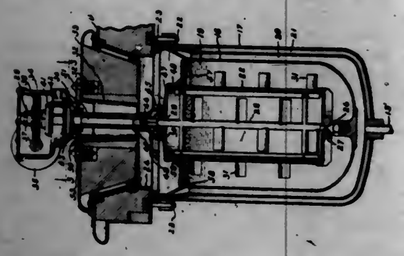
1. A bearing member for a ball and socket connection consisting of a container within which is positioned a mass of highly compressed bonded fibrous material impregnated with a solid lubricant, said container confining and supporting said mass on substantially all sides except the bearing surface.

1,916,745. TIMING DEVICE FOR MACHINERY. GROVER C. SMITH, Los Angeles, Calif. Filed June 30, 1930. Serial No. 465,023. 8 Claims. (Cl. 161—1.)



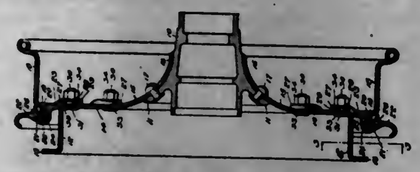
1. A signal effecting device including a tubular shaft, a bell clapper having a stem operatively passing through the shaft, a clapper striking assembly including a part to engage said stem, means carried by said shaft and operative on said assembly to set it in striking position, and control means for operating the shaft to effect setting of said assembly.

1,916,746. APPARATUS FOR AND METHOD OF MAKING ICE CREAM OR THE LIKE. THOMAS H. SWISHER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 10, 1928. Serial No. 276,766. 20 Claims. (Cl. 62—116.)



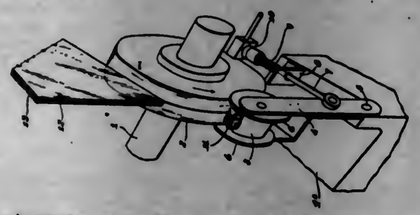
1. In combination with a refrigerator cabinet, a cooling unit therein in the form of a container for a freezing solution having a refrigerating system associated therewith, said cooling unit including a closed evaporator chamber surrounding said container and communicating with said system, a vessel adapted to contain a mixture for making ice cream or the like, means for supporting said vessel in said container and in direct contact with the freezing solution therein so as to utilize the refrigerating effect of the freezing solution to freeze the mixture in said vessel, and means for agitating the mixture during freezing the same.

1,916,747. VEHICLE WHEEL. JAMES H. WAGENHORST, Jackson, Mich. Filed Dec. 5, 1927. Serial No. 237,821. 4 Claims. (Cl. 301—6.)



1. A vehicle wheel comprising a demountable rim having a plurality of short apertured lugs attached to and extending radially inwardly from the inboard edge of the rim base, a hub, a brake drum of substantially the same diameter as the rim base secured to said hub, a plurality of bolts attached to the side-wall of said brake drum adjacent its periphery and extending through the apertures of said lugs, and nuts threaded upon said bolts and securing said rim to the side wall of said brakedrum.

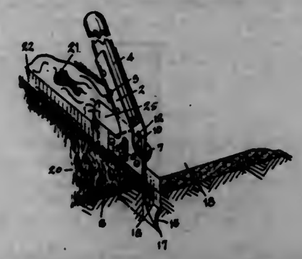
1,916,748. PROCESS AND APPARATUS FOR APPLYING EDGE SEALING MATERIAL TO LAMINATED GLASS. THOMAS G. WRIGHT, Tarentum, Pa., assignor to Duplate Corporation, a Corporation of Delaware. Filed Feb. 11, 1932. Serial No. 592,291. 5 Claims. (Cl. 18—3.5.)



1. A process of applying plastic caulking paste to the grooved edge of a plate of laminated glass, which consists in dragging a cylindrical rotating surface through a mass of the paste held against bodily movement, so that a layer of the paste is spread over the surface, and progressively engaging the grooved edge of the plate with such surface with the plate held in a plane substantially parallel to the plane of rotation of the cylindrical surface.

1,916,749. TURF EDGER. JOSEPH F. BIRINGER, Toledo, Ohio. Filed Mar. 19, 1932. Serial No. 599,888. 2 Claims. (Cl. 97—227.)

1. In a turf edging tool, a handle, a pair of curved plates attached to the handle in parallel opposite relation to one another, each of the said pair of plates having corresponding longitudinal slots and a plurality of laterally extending slots leading therefrom, a shaft extending through a selected pair of lateral slots for slidable support therein, a wheel rotatably mounted on one end of the shaft, an L-shaped cutter member secured to one of the parallel plates comprising a vertical blade having a vertical concave undercutting knife edge and a basal horizontal blade having a concave cutting edge receding from the point of juncture with the vertical undercutting edge, an upwardly concave deflector extending from the cutting edges of the L-shaped cutter member and extending vertically to the top of the vertical leg thereof, and a horizontal plate joining the vertical leg



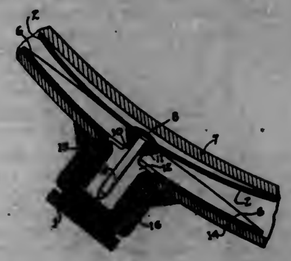
of the L-shaped cutter member and the deflector whereby sod cut by the advancing blades is deflected in a direction perpendicular to the face of the vertical leg and aside from the path of the cutting edges.

1,916,750. ORNAMENTAL ACCESSORY FOR AUTOMOBILES. RAY L. BLACK, Orcutt, Calif. Filed June 6, 1931. Serial No. 542,589. 2 Claims. (Cl. 240—10.)



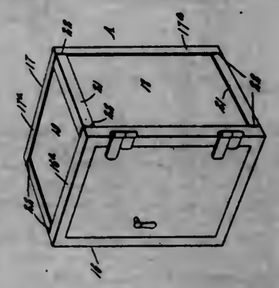
1. In a device of the character described, a base, a tubular body vertically disposed upon said base and designed to simulate the trunk of a tree, a plurality of tubular branches each having an arcuate plate flexibly connected to one end, each of said plates being secured to the tubular body, each of said plates having an aperture therein coinciding with the aperture in the tubular body and alining with the adjacent branch tube, an electric incandescent lamp mounted upon the free end of each branch tube, electrical conductors passing through said body and through the apertures therein and in the plates to said tubes for connection with the incandescent elements, and members simulating tree branches connected with the body, certain of said tree branch members being secured to and extending longitudinal of the branch tubes.

1,916,751. JACKETED VESSEL. IRVING W. BRINGMANN, Pittsburgh, Pa., assignor to The Aluminum Cooking Utensil Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Nov. 21, 1932. Serial No. 643,691. 9 Claims. (Cl. 257—211.)



3. In a double-walled vessel, a curved baffle plate positioned between the walls with its edge in contact with the inner wall, said baffle having a smaller radius of curvature than the portion of the inner wall covered thereby and being held against the inner wall by a member adjustably attached to the outer wall and bearing against said baffle substantially at its center.

1,916,752. INSULATED CABINET OR RECEPTACLE. DAVID A. CARLSON, Jamestown, N. Y., assignor to Art Metal Construction Company, Jamestown, N. Y. Filed Aug. 18, 1931. Serial No. 557,774. 7 Claims. (Cl. 109—2.)



1. A receptacle comprising a lining of insulating material, and a metal casing enclosing said lining and comprising a front frame and a back plate having marginal flanges which extend toward each other, corner angles extending between and welded at their ends to the flanges of said front frame and back plate, and casing plates arranged against the outer faces of said lining with their edges extending under and confined by the flanges of the front frame, back plate and corner angles, the only rigid connections between the parts of said casing being the welded joints connecting the ends of the corner angles to said front frame and back plate.

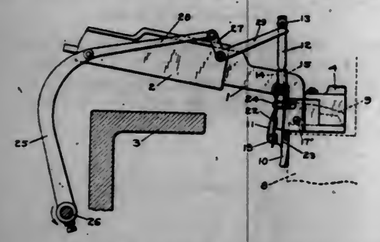
4. A metal casing comprising opposite wall members having integral marginal flanges projecting towards each other from the peripheral edges of said members, corner angles extending between and welded at their ends to the flanges of said opposite wall members at the corners of the casing, and casing plates forming the remaining walls of the casing and having their edges extending under and confined by the flanges of the front and rear members and corner angles.

1,916,753. ORNAMENTAL GLASS. FRANK CLARKE, St. Louis, Mo., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed May 19, 1932. Serial No. 612,287. 1 Claim. (Cl. 40—135.)



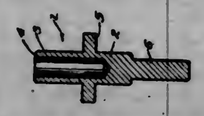
In combination, a glass plate having its rear face provided with a design in relief, said design and the area of the rear face surrounding it being roughened, and a second sheet of glass having its front face in engagement with the rear face of the first sheet and provided upon its other face with a metallic reflecting coating, said design and the surrounding area being covered by colored coatings applied thereto which are of contrasting color and are translucent to permit the reflecting coating to reflect light therethrough.

1,916,754. INTERMITTENTLY OPERATING THREAD CUTTING MECHANISM. FREDRIC E. DOUGLAS, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 29, 1932. Serial No. 649,423. 6 Claims. (Cl. 139—266.)



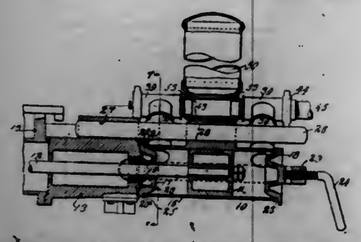
1. A thread cutting temple for automatic filling replenishing looms comprising, a temple head, thread cutting mechanism positioned therein, a gravity operated rack adapted when in its lower position to render said thread cutting mechanism inoperative, means operative upon call for filling replenishing to raise said rack and thereby restore said thread cutting mechanism to operation, and means including a pawl for controlling the downward movement of the said rack.

1,916,755. STACKING FIXTURE. RUTH E. DOWDELL, Columbus, Ohio. Filed Sept. 2, 1931. Serial No. 560,682. 2 Claims. (Cl. 206—65.)



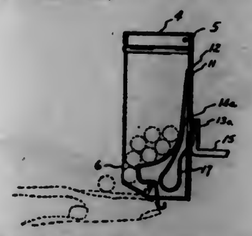
1. As a new article of manufacture, a lamp shade spacing fixture comprising a cylindrical body having a longitudinally extending axially disposed socket formed therein opening to one end of said body, a positioning flange extending peripherally and laterally from said body at a point intermediate of its ends, and an extension of reduced diameter formed at one end with said body and receivable within the socket of an adjoining fixture.

1,916,756. PUMP. HARVEY FELDMEIER and ROLAN JAY WIGHTMAN, Little Falls, N. Y., assignors to Cherry-Burrell Corporation, Little Falls, N. Y. Filed Jan. 10, 1930. Serial No. 419,797. 6 Claims. (Cl. 103—175.)



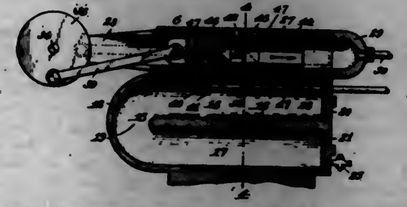
1. In a liquid pump, the combination with a cylinder and a piston supported independently of the cylinder and arranged to reciprocate therein, said cylinder having an inner head and a body separable therefrom of a support on which said cylinder body is mounted and slidable parallel with the axis of the piston for removal from the piston, said support being arranged to guide said cylinder body in its sliding movements both horizontally and vertically, and said piston being retained in operative position by its support when the cylinder is removed.

1,916,757. CIGARETTE DISPENSER. FREDERIC J. FLACH, Cincinnati, Ohio, assignor to The Metal Specialty Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 27, 1932. Serial No. 624,954. 2 Claims. (Cl. 312—83.)



2. In a cigarette dispensed, a container having a lateral opening unobstructed from below and near the base thereof, a movable plate in the receptacle having an abutment normally registering with said opening and a portion curving upwardly from the abutment on which cigarettes are supported, a finger extending down from the plate and out through the base of the container for actuation of the plate, and means for limiting the movement of the finger, said abutment and the adjacent portions of the walls of the container forming a pocket to receive a single cigarette at the opening when the finger is pushed inwardly by the operator and push it out when the finger is released.

1,916,758. AIR CONTROLLING MECHANISM FOR PAINT-FILTERING APPARATUS. FRANK N. GEORGE, Buffalo, N. Y. Filed Feb. 9, 1932. Serial No. 591,794. 7 Claims. (Cl. 137—145.)



1. The combination with a rotatable shaft, of an air-controlling valve having a cylindrical elongated casing provided with an air-inlet port between its ends, an air-outlet at one end and air-exhaust ports at opposite sides of a plane passing transversely through said air-inlet port, a piston-valve within said casing adapted to travel over said air-inlet port and successively over said air-exhaust ports, and a piston rod operatively connected to said shaft and piston-valve to cause said valve to reciprocate and uncover said air-inlet port when covering said air-exhaust ports.

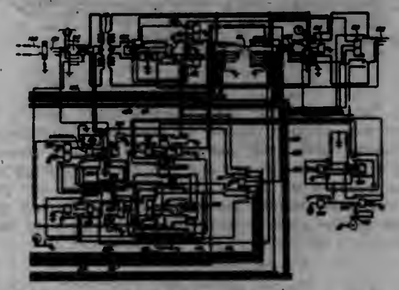
1,916,759. BUFFING WHEEL. ELISHA WINTHROP HALL, Marshfield Hills, Mass. Filed Feb. 18, 1930. Serial No. 429,265. 3 Claims. (Cl. 51—193.)



1. A buffing wheel comprising a plurality of assembled thin circular disks of fibrous material having a peripheral

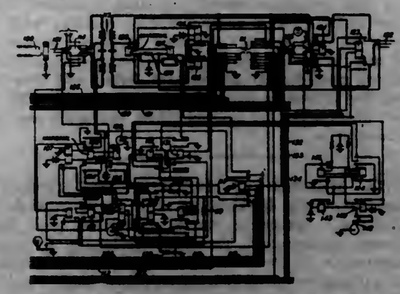
zone forming the working area sewed together by a wide spiral line of stitching formed of a succession of short stitches presenting repeated zigzagged designs in which each stitch extends in an abruptly different direction from the next preceding stitch and in which the areas of the designs of each inner convolution of the spiral overlaps a portion of a like design in the adjacent outer convolution without intersection of the stitches thereof, and whereby the stitches join the plies at closely adjacent intervals.

1,916,760. TELEPHONE EXCHANGE SYSTEM. ISRAEL H. HENRY, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 23, 1932. Serial No. 630,009. 17 Claims. (Cl. 179—27.)



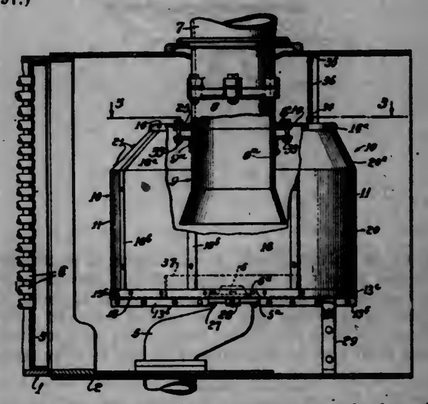
1. In a telephone exchange system, a first group of trunk circuits, each trunk circuit having access to a train of selector switches responsive to a fixed number of impulse series for completing connections, a second group of trunk circuits, each trunk circuit having access to trains of selector switches responsive to a variable number of impulse series for completing connections, a plurality of senders for controlling said selector switches, means operable upon the seizure of any one of said trunk circuits for associating an idle one of said senders therewith, and means in said sender controlled from the trunk circuit associated therewith for recording a class registration indicative of the group to which the trunk circuit taken for use belongs.

1,916,761. TELEPHONE EXCHANGE SYSTEM. ISRAEL H. HENRY, East Orange, and RALPH E. HERSEY, Madison, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 23, 1932. Serial No. 630,010. 14 Claims. (Cl. 179—27.)



1. In a telephone exchange system, a plurality of trunk circuits having access to trains of selector switches, said trunk circuits being divided into groups in accordance with the character of the connections to be established thereover, a plurality of register senders for transmitting series of impulses for setting said selector switches, means operable upon the seizure of any one of said trunk circuits for associating an idle one of said senders therewith, means in said sender for introducing a measured time interval between the transmission of successive series of impulses, means in each sender controlled from the trunk circuit associated therewith for recording the class registration indicative of the group to which the trunk circuit taken for use belongs, and means controlled in accordance with the class registration for changing the time interval between the transmission of any successive digit series.

1,916,762. SPARK ARRESTER. WALTER H. HINSCH, Chicago, Ill., assignor to Locomotive Firebox Company, Chicago, Ill., a Corporation of Delaware. Filed May 8, 1931. Serial No. 535,828. 10 Claims. (Cl. 230—97.)

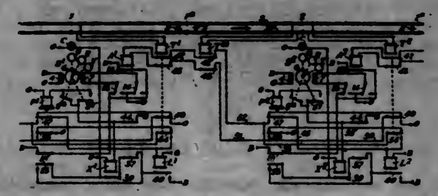


1. In combination with a locomotive smoke box shell and associated aligned smoke stack and exhaust nozzle, an upright tubular casing in said shell and enclosing portions of said stack and nozzle, said casing having converging portions at the front which define an inlet opening for the casing, a baffle closing off the space between said shell and casing excepting the bottom portion thereof and arranged to the rear of said inlet opening, and upright deflectors in said inlet opening arranged to deflect the products of combustion entering said opening into the casing in a direction substantially parallel with one of said converging portions of said casing, said casing including sections having overlapped marginal portions detachably connected together.

1,916,763. MANUFACTURE OF SMOKELESS POWDER PROPELLANTS. ARTHUR HOUGH, Passaic, N. J., assignor to Degn Corporation, a Corporation of Delaware. Filed Apr. 3, 1929, Serial No. 352,220. Renewed Mar. 15, 1933. 2 Claims. (Cl. 52—13.)

1. A smokeless powder propellant, containing about 85 to 90% of nitrocellulose together with a small percentage of diethylene glycol dinitrate.

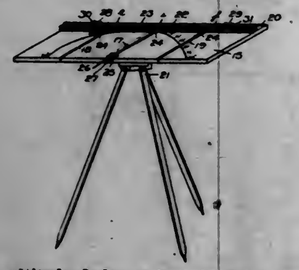
1,916,764. RAILWAY SIGNALING SYSTEM. ROBERT M. LAURENSON, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Apr. 16, 1932. Serial No. 605,661. 1 Claim. (Cl. 246—41.)



In combination, a light signal of the searchlight type, a polar relay for the control of said signal, a repeater relay

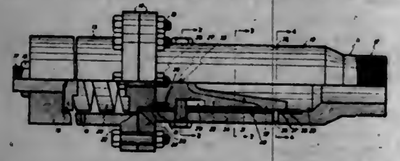
controlled by a front neutral contact of said polar relay, a slow-releasing relay also controlled by a front neutral contact of said polar relay, a circuit for the lamp of said signal including a back contact of said slow-releasing relay, and a second circuit for the lamp of said signal including in series a front neutral contact of said polar relay and a front contact of said repeater relay.

1,916,765. POSITION AND ALTITUDE FINDER. ERNEST HENRY LEWIS, Verdun, Quebec, Canada. Filed Mar. 21, 1931. Serial No. 524,310. 3 Claims. (Cl. 33—66.)



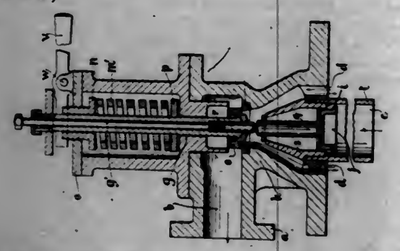
1. In an altitude finder, a base having a longitudinal scale and a scale at right angles thereto movable along said longitudinal scale on said base, a pair of sights adjustable on and along said right angular scale and a fixed sight at the inner end of said longitudinal scale for determining sight lines in conjunction with said movable sights.

1,916,766. HIGH PRESSURE RELIEF VALVE. HARVEY M. LYTEL, Los Angeles, Calif. Filed Feb. 12, 1932. Serial No. 592,562. 3 Claims. (Cl. 137—53.)



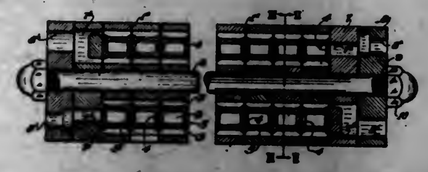
1. A pressure release valve, comprising: a body having a longitudinal bore, a plurality of ports formed in the wall of said body and a piston sliding within said bore, the skirt of said piston being divided into tongues, said tongues tapering longitudinally and being substantially flat rearwardly, the extremity of each said tongue covering one of said ports when said piston is in a retracted position.

1,916,767. VALVE. HAROLD LYALL MASON, Hampstead, London, England. Filed Dec. 6, 1928, Serial No. 324,142, and in Great Britain Dec. 13, 1927. 6 Claims. (Cl. 137—53.)



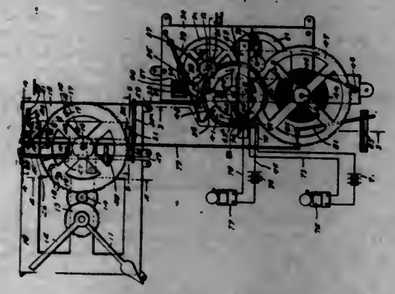
1. An automatically operated fluid valve comprising a main valve and a supplementary actuator valve on the side of the main valve presented to the actuating fluid pressure, both controlled by a common loading device, means being provided whereby the lift of the actuator valve can be varied and adjusted independently of the lift of the main valve.

1,916,768. HEAT EXCHANGER. HARRY G. MELCHER, Grove City, Pa., assignor of one-half to John G. Carruthers, Grove City, Pa. Filed Sept. 9, 1932. Serial No. 632,353. 7 Claims. (Cl. 257—245.)



1. A heat exchanger comprising a plate having an annular flow passage therein in heat exchange relation with one or more axial passages, said annular passage having communicating inlet and outlet ports in staggered relation whereby the flow of fluid is divided in said passages and said annular and axial passages having connections at the ends of said plate for sources of fluid supply.

1,916,769. AUTOMATIC SIGNALING MECHANISM FOR SCHOOLS. EDWARD R. MERCER, Gibbon, Nebr. Filed May 28, 1932. Serial No. 614,183. 11 Claims. (Cl. 200—40.)



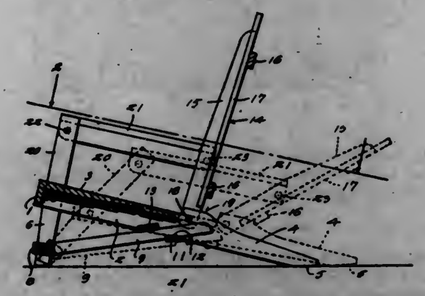
1. A time controlled switch including a contact wheel, a motor therefor, fixed contact fingers coacting with the contacts on the wheel, a detent holding the contact wheel and the motor from operation, and clock actuated means for momentarily lifting said detent and then permitting the detent to again detainingly engage with the contact wheel after the contact wheel has made one complete revolution.

1,916,770. METHOD OF IMPROVING THE HANDLING AND STORING QUALITIES OF COMPOUNDS OF CALCIUM. HEINRICH REITZ, Bitterfeld, and HANS EHLERS, Sandersdorf, Germany, assignors, by mesne assignments, to Pen-Chlor, Incorporated, Philadelphia, Pa., a Corporation of Delaware. Filed Sept. 10, 1930, Serial No. 481,080, and in Germany Sept. 17, 1929. 2 Claims. (Cl. 23—248.)

1. The method of improving the handling and storing qualities of crystallized calcium hypochlorite obtained from lyes containing calcium chloride which consists in admixing to the finely grained crystals a quantity of sodium sulfate approximately in the proportion stoichiometrically corresponding to the quantity of calcium chloride contained in the adhering lye, and drying the product.

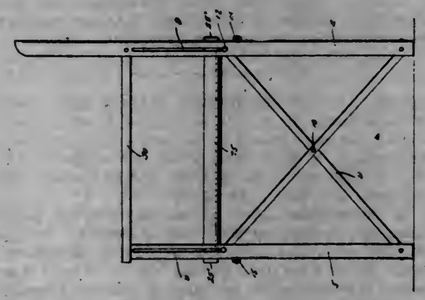
2. A new non-hygroscopic composition consisting of calcium hypochlorite and, in intimate admixture therewith, a quantity of calcium sulfate ranging between approximately 5 and 10 percent of the total.

1,916,771. FOLDING LAWN AND CAMP CHAIR. JOHN A. PARKS, Villa Ridge, Mo. Filed Oct. 3, 1931. Serial No. 566,769. 3 Claims. (Cl. 155—117.)



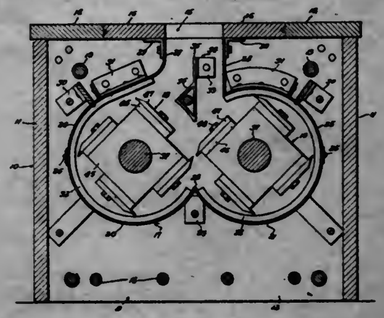
3. A chair comprising a seat, side bars secured to the seat, rear legs formed with the side bars, front legs pivoted to the side bars and terminating thereabove, a back pivoted in a fixed position on the side bars, arms pivotally connecting the upper ends of the front legs and the back, back holding members carried by the side bars, a cross bar carried by the back and engageable with the back holding members to hold the back in one position relative to the seat, a notched bar carried by the front legs and extending rearwardly thereof and means carried by the side bars for engagement with the notched bar to hold the back in another position.

1,916,772. FOLDING CAMP ARMCHAIR. SHERRY A. PRATT, Oakland, Calif. Filed Sept. 8, 1931. Serial No. 561,763. 1 Claim. (Cl. 155—140.)



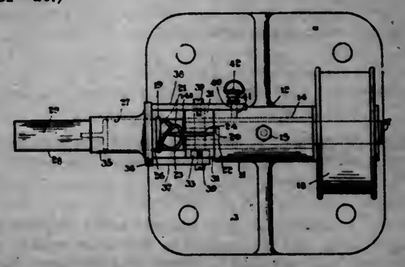
A chair of the class described comprising a pair of front legs and a pair of rear legs, each leg being of angle shape in cross section and the rear legs being longer than the front legs, each leg having an elongated slot in each flange thereof in an upper portion of the leg, a pair of braces connecting each leg to each of the adjacent legs, the braces of each pair being pivotally connected together intermediate their ends with the lower ends of the braces pivotally connected to the lower ends of a pair of the legs and the upper ends having projections thereon engaging the slots in said pair of legs, a seat including a pair of angle shaped side members having tongues at their forward and rear ends engaging the front slots in the front legs and the rear slots in the rear legs, a flexible sheet connected with the side members, a foldable brace connecting the front legs together, a foldable brace connecting the rear legs together, a pair of arms each of which have one end pivotally supported from a rear leg and latch means for connecting the front end of each arm to a front leg.

1,916,773. CEREAL CUTTING MACHINE. DAVID M. SHALER, Platte City, Mo. Filed Sept. 8, 1930. Serial No. 480,502. 3 Claims. (Cl. 83—6.)



1. In a cutting machine of the class described, in combination, a casing, a foraminous cage structure mounted therein and including a horizontally disposed lower part embodying substantially segmental curved portions adjoined together through the medium of a material dividing and separating rib, said cage also including upper curvate portions hingedly connected to the opposite ends of said lower horizontal parts, and said upper portions terminating in spaced parallel vertically disposed walls, said casing embodying an inlet associated with said walls, and said walls defining a material intake chute, for feeding the material into the central portion of the cage, and rotary cutters mounted in said cage, and a baffle located in said chute consisting of a dividing plate and a substantially V-shaped projection constituting a baffle, said plate and baffle being disposed at a point above the aforementioned rib for the purpose stated.

1,916,774. CIGAR HEAD KNURLING AND PUNCHING DEVICE. FRANK J. SOMERVILLE, Montreal, Quebec, Canada, assignor to Imperial Tobacco Company of Canada Limited, Montreal, Quebec, Candaa. Filed June 10, 1932. Serial No. 616,506. 6 Claims. (Cl. 131—20.)

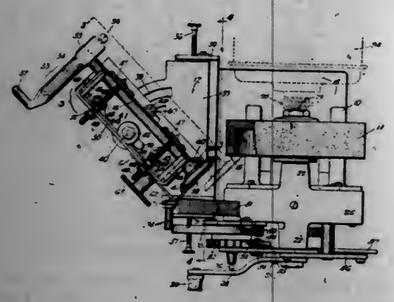


1. The combination with a rotary cigar end knurling device of a punch, and means mounting the punch on the knurling device, said punch being adapted to penetrate the cigar wrapper and filler to form a smoke or draft passage in the filler during the knurling operation.

1,916,775. VALVE GRINDING MACHINE. BERNARD T. STEBER, Utica, N. Y. Filed Jan. 22, 1929. Serial No. 334,251. 2 Claims. (Cl. 51—129.)

2. In a machine for grinding valves, a frame, an abrasive wheel rotatable on said frame, a drive shaft, means

operated by said drive shaft for rotating said wheel, a cradle mounted to oscillate on said frame about an axis parallel to the axis of rotation of said wheel, a valve holder adjustable on said cradle, a stub shaft on said frame, a double involute cam mounted to rotate on said stub shaft, a post fixed to one end of said cradle and having a pin extending laterally therefrom in sliding contact with the edge of said cam, a lever pivoted at one end to said frame and having a pin extending later-



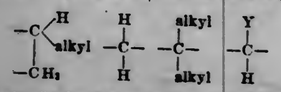
ally therefrom in sliding contact with the edge of said cam, said post and lever being arranged so that the pins thereon contact with the edge of said cam at substantially diametrically opposite points, a spring connecting the free ends of said post and lever to hold said pins in yielding contact with the edge of said cam, and mechanism connecting the drive shaft to said cam to rotate the cam at a rate of rotation lower than that of the drive shaft.

1,916,776. SULPHONATED FATTY ACID ESTERS AND THEIR PRODUCTION. ADOLF STEINDORFF, KARL DAIMLER, and KARL PLATZ, Frankfort-on-the-Main-Hochst, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Feb. 17, 1931, Serial No. 516,514, and in Germany Feb. 25, 1930. 10 Claims. (Cl. 260—106.)

1. The process which comprises causing a compound of the general formula:

$$HO_3S-R-X$$

wherein X stands for OH or a halogen atom and R stands for an isocyclic ring system or for one of the groups



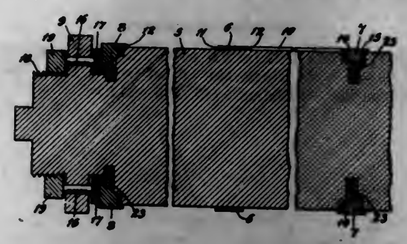
wherein Y stands for benzene or a naphthalene nucleus to react with a fatty acid compound of the general formula:

$$R_1.CO.Z$$

wherein Z stands for OH, O.alkali metal, O.alkyl or a halogen atom and R_1 represents the alkyl radicle of a fatty acid, the molecule of which contains more than 3 carbon atoms.

1,916,777. PLATE MOUNTING. ARTHUR RONALD TRIST, London, England, assignor, by mesne assignments, to Pantone Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 24, 1930. Serial No. 423,048. 5 Claims. (Cl. 101—378.)

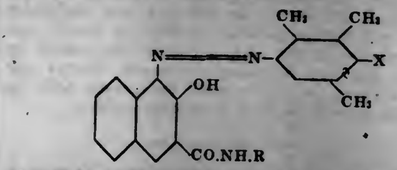
1. A printing press including, in combination, a cylinder to receive a plate, a ring disposed adjacent one of the ends of said cylinder and movable with respect thereto, said ring overlapping an edge portion of said plate to retain the same in association with said cylinder, means for shifting said ring, means cooperating with the further edge of said plate to retain the same against displacement and resilient means associated with said



cylinder and cooperating with said ring to maintain the same in substantially concentric position with respect to the axis of said cylinder.

1,916,778. WATER-INSOLUBLE AZO-DYESTUFF AND FIBER DYED THEREWITH. HERMANN WAGNER, Soden-on-the-Taunus, and HERBERT KRACKER, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 12, 1931, Serial No. 522,172, and in Germany Mar. 20, 1930. 12 Claims. (Cl. 260—95.)

1. As new products, the water-insoluble azo-dyestuffs of the following general formula:



wherein X represents halogen and R represents a residue of the benzene or naphthalene series, which must not contain any free sulfonic- or carboxylic acid groups, dyeing vivid red shades and being distinguished by their good fastness properties, particularly by their good fastness to kier-boiling, to chlorine and to light.

1,916,779. LIGHT-SENSITIVE MATERIAL. BRUNO WENDT, Dessau in Anhalt, and HANS BINCER, Dessau-Ziebigk, Germany, assignors to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed May 9, 1930, Serial No. 451,192, and in Germany May 14, 1929. 6 Claims. (Cl. 95—7.)

1. A photographic layer for the bleaching-out process comprising bleaching-out dyes and a sensitiser for said dyes, both substances uniformly distributed throughout a mixture of at least two binding agents one of which dissolves said dyes while the other is capable of swelling in the fixing agent.

5. A photographic layer for the bleaching-out process comprising bleaching-out dyes and a sensitiser for said dyes, both substances uniformly distributed throughout a mixture of a compound selected from the group consisting of high boiling alcohols and cellulose esters with at least one compound selected from the group consisting of cellulose ethers and ether-esters.

1,916,780. ALLOY. FREDERICK M. BECKET, New York, N. Y., assignor to Electro Metallurgical Company, a Corporation of West Virginia. Filed May 13, 1930. Serial No. 452,131. 5 Claims. (Cl. 75—1.)

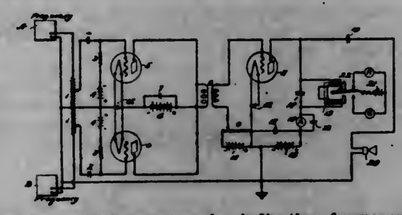
1. A ferrous alloy characterized by high resistance to sulphur-containing gases and by high strength at elevated temperatures in the vicinity of 600° C., and which has substantially the composition: chromium from about 16% to about 22%, manganese from about 6% to about 16%, molybdenum from about 1% to about 10%, and carbon, the carbon content being less than about 0.3%, the balance being iron.

1,916,781. SEEDER. GEORGE BLATCHFORD, Friend, Nebr. Filed Sept. 9, 1931. Serial No. 561,974. 4 Claims. (Cl. 221—119.)



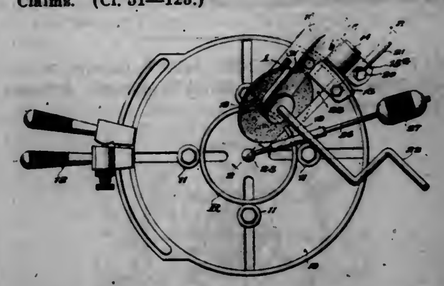
1. A seeder comprising a hopper for the reception of seeds, said hopper including a bottom having a seed outlet opening therein, a cut-off plate disposed rotatably beneath the bottom of the hopper and having an opening therein for registry with the opening in the hopper bottom, a regulating plate mounted rotatably beneath the cut-off plate and having a substantially ovate opening therein for communication with the first and second named openings, handles projecting from the cut-off plate and the regulating plate for manually actuating the same, a stationary supporting plate disposed beneath the regulating plate and having an opening therein in communication with the first named openings, a discharge spout depending from the supporting plate and communicating with the opening therein, ears projecting from the periphery of the supporting plate, a bracket attached to the hopper, a bolt passing through the bracket and one of the ears, and a handle having a part connected to the hopper and another part connected with the other ear of the supporting plate.

1,916,782. FREQUENCY AND PHASE INDICATING SYSTEM. ALFRED CROSSLEY, Washington, D. C. Filed June 11, 1928. Serial No. 284,572. 2 Claims. (Cl. 175—368.)



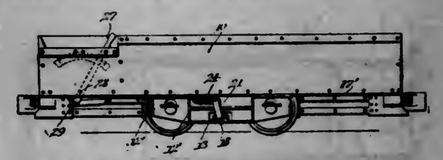
1. In a precision system for indicating frequency differences, a source of known frequency, a source of unknown frequency, separate electron tube circuits connected to each of said sources for multiplying the frequency of each of said sources, an amplifier circuit individual to each of said electron tube circuits, tuning means connected with the input of each of said amplifier circuits for tuning said amplifier circuits to a selected harmonic of the multiplied frequency, tuning means in the output circuit of each of said amplifier circuits responsive to the selected harmonic frequency, a combining circuit connecting the outputs of said amplifier circuits, said tuning means in the output circuits of said amplifier circuits operating to regulate the energy transferred to said combining circuit, said means connected to said combining circuit for indicating the frequency of said unknown source.

1,916,783. APPARATUS FOR FITTING THE ENDS OF PISTON RINGS. CHARLES E. DANIELS, Atchison, Kans. Filed Nov. 17, 1931. Serial No. 575,630. 6 Claims. (Cl. 51—125.)



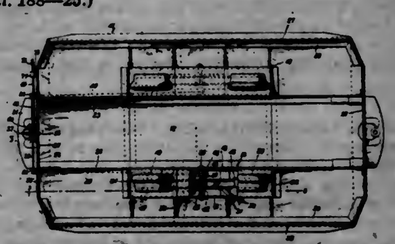
1. In an apparatus for fitting the ends of piston rings, a base plate constituting a ring support, a substantially radially and horizontally disposed pivot pin fixed with respect to said base plate, a substantially L-shaped cutting tool carrier inclusive of a substantially horizontal arm overlying said base plate and a downwardly directed arm mounted on said pivot pin for rotative adjustment thereon, means for fastening the last mentioned arm upon said pivot pin in any rotated position of said arm relative to said pin, and a cutting tool carried by the horizontal arm for operation between the ends of a piston ring disposed on said base plate.

1,916,784. MINE CAR BRAKE MECHANISM. GLENN E. EDMUNDS, Columbus, Ohio, assignor to The Bonney-Floyd Company, Columbus, Ohio, a Corporation of Ohio. Filed Sept. 19, 1929, Serial No. 393,764. Renewed June 4, 1932. 22 Claims. (Cl. 188—55.)



1. A mine car brake mechanism comprising a brake shoe housing, a pair of oppositely movable shoes in said housing adapted to be supported by the housing and guided thereby in their movement, cam means operative to move said shoes in opposite directions, a rock shaft adjacent said cam means, the rock shaft and cam means being independently mounted, means for rocking said shaft, and linkage connecting said shaft and the cam means whereby rocking movement of the shaft is transmitted to the cam for moving the shoes in opposite directions.

1,916,785. MINE CAR BRAKE MECHANISM. GLENN E. EDMUNDS, Columbus, Ohio, assignor to The Bonney-Floyd Company, Columbus, Ohio, a Corporation of Ohio. Filed June 22, 1931. Serial No. 546,107. 25 Claims. (Cl. 188—25.)



1. Mine car brake operating mechanism comprising a rotatable drum, cable lengths led from substantially oppo-

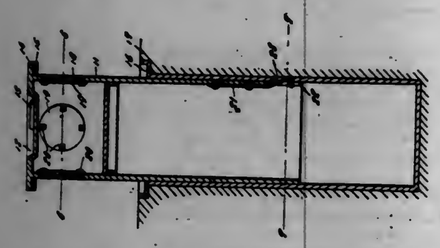
site directions to said drum and simultaneously windable thereon upon rotation thereof, and means supporting said drum for bodily movement whereby to equalize the tension exerted on the cable lengths.

1,916,786. CLUTCH DEVICE. SETH N. ELLIOTT, Marine, Ill. Filed Nov. 28, 1930. Serial No. 498,805. 3 Claims. (Cl. 192—46.)



1. A clutch device including in combination a driving member and a driven member, a clutch pin on the driven member constrained to shift radially relative thereto, yieldable means normally urging the pin in one direction, and said driving member provided with a circular series of relatively spaced notches, and a hook on one end of the pin arranged normally in the path of the notches for positive engagement therewith.

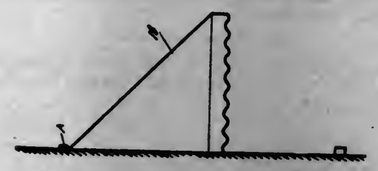
1,916,787. TRAFFIC GUARD. CHARLES C. ELSTON, Pasadena, Calif. Filed Aug. 23, 1932. Serial No. 630,120. 2 Claims. (Cl. 40—145.)



1. In a traffic guard, a casing, a tubular post having a sliding fit within said casing, said post having at one end a wall provided with a circular recess, a ball pivoted to said wall and adapted to lie wholly within said recess, said post adjacent said one end being also provided with a circular series of relatively spaced openings, reflector buttons mounted interiorly of the post opposite said openings, a leaf spring member anchored at one end interiorly of said post and having a free end movable into and out of said post through a lateral notch provided in said post, and said casing intermediate its ends being provided with an aperture for accommodating the free end of said leaf spring, said leaf spring having said free end formed to provide a keeper engageable with the aperture in a manner to secure the post with the closed end thereof projected outwardly relative to said casing.

1,916,788. AWNING HANGER. ISADORE FLEXER, Philadelphia, Pa. Filed Feb. 12, 1932. Serial No. 592,604. 1 Claim. (Cl. 156—15.)

An awning rod supporting bracket formed of a single piece of material and including a base adapted to be fastened to a support and a U-shaped part extending at right angles from the base and having the end of its inner limb connected with the outer end of the base with the bight of the U-shaped part extending in an opposite direction from the base, whereby the outer limb of the U-shaped part is spaced outwardly from the base, said inner limb having a hole therein for receiving an end of the rod and



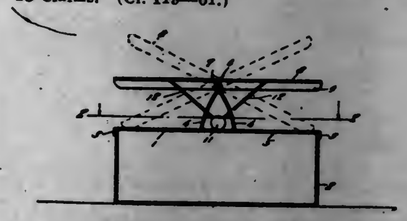
the outer limb being imperforate and forming a stop for that end of the rod which passes through the hole, to limit longitudinal movement of the rod.

1,916,789. GARMENT. GEORGE FORDHAM, Powellton, W. Va. Filed Oct. 26, 1932. Serial No. 639,697. 20 Claims. (Cl. 128—87.)



1. In a garment of the class described, a relatively flat flexible body having a jacket portion and leg portions, said leg portions being independent of and separate from each other and longitudinal stiffening members extending through the jacket portion into said leg portions for a distance sufficient to stiffen the respective leg portions.

1,916,790. POULTRY APPLIANCE. JOHN B. GUENSER, Chaska, Minn. Filed July 15, 1932. Serial No. 622,765. 18 Claims. (Cl. 119—61.)

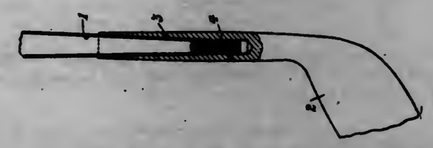


1. A poultry appliance comprising a plate, arms struck up from the plate providing openings in said plate, and a tiltable guard having means connected to and supported for swinging movement on the arms.

1,916,791. GOLF CLUB. WILLIAM JAMES HADDEN, Glasgow, Scotland, assignor to Donaldson Manufacturing Company Limited, Glasgow, Scotland. Filed Aug. 23, 1928, Serial No. 301,672, and in Great Britain July 18, 1928. 9 Claims. (Cl. 273—80.)

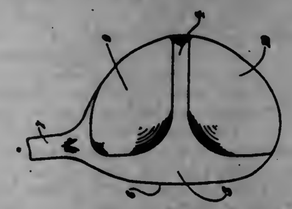
1. A two piece golf club comprising in combination a metallic head and a tubular tapering metallic shaft which

are quickly and easily detachable, or securable together with a metal to metal joint, said head having a socket with an inner cylindrical screw threaded part at the lower end thereof and an internal plain tapering part at the upper end thereof tapered to correspond with the shaft, of comparatively slight taper and merging into said screw threaded part, and said shaft having a cylindrical screw threaded part at the smaller end thereof corresponding in size to the internal threaded part on the socket, the screw



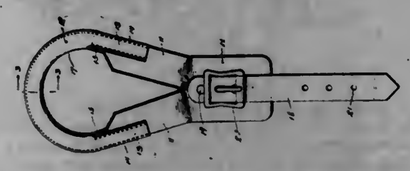
being formed on the shaft by bending the metal of the shaft itself into screw formation without thickening, reinforcing, or cutting the metal, the smallest diameter of the tapering part of the shaft being slightly greater than that which allows engagement of the tapering parts of the shaft and socket over the whole length of the tapering part of the socket, said parts being proportioned to leave a clearance in the socket below the lower end of the shaft and the bottom of the socket.

1,916,792. GOLF CLUB HEAD. WILLIAM JAMES HADDEN, Glasgow, Scotland, assignor to Donaldson Manufacturing Company Limited, Glasgow, Scotland. Filed Mar. 26, 1931, Serial No. 525,530, and in Great Britain Nov. 20, 1930. 1 Claim. (Cl. 273—77.)



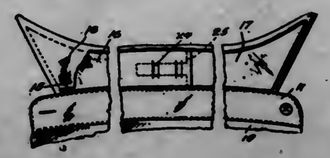
A head for a golf club comprising a body formed as a unitary structure and having an upper wall extending its full length and width and a depending wall only along the front edge of the upper wall, the said front wall having its intermediate portion of increased thickness and merging into a rib extending from the front wall to the rear edge of the upper wall, said rib having its lower edge flush with the lower edge face of the front wall and the rear portion of its lower edge extending upwardly to intersect the rear edge of the upper wall.

1,916,793. HANDLE EXTENSION. SAMUEL R. HARPER, Waco, Tex., assignor to Clifton Manufacturing Company, a Co-partnership composed of A. T. Clifton, A. L. Clifton, and W. R. Clifton. Filed July 16, 1931. Serial No. 551,261. 1 Claim. (Cl. 224—55.)



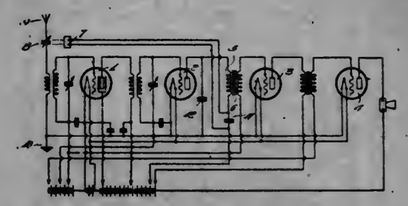
As a new article of manufacture, a flexible flat member having a bifurcated end portion, a looped handle carried by the bifurcated end portion of said member, a filling inserted within the handle, an elongated strap, means for securing said strap to said member, said strap extending in a direction oppositely from said looped handle, and a buckle carried by said strap and said member whereby to maintain said strap in a looped position about an article.

1,916,794. COLLAR CONSTRUCTION. LOUIS HAVEN, Seattle, Wash. Filed Aug. 13, 1931. Serial No. 556,881. 1 Claim. (Cl. 2—132.)



An improved collar construction comprising a pocketed collar portion, a reinforcing element fitting at its ends removably in the pocketed construction, said reinforcing element being in two sections, one section provided with a tongue and the other section provided with straps for removably receiving said tongue, said tongue section having a shoulder whereby said sections may adapt themselves to the curvature and length of the collar when closed and constricted.

1,916,795. VOLUME CONTROL SYSTEM FOR RADIO-RECEIVERS. ERNEST R. HENTSCHEL, Washington, D. C.; John Olson, administrator of said Ernest R. Hentschel, deceased, assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Aug. 12, 1930. Serial No. 474,779. 12 Claims. (Cl. 250—20.)

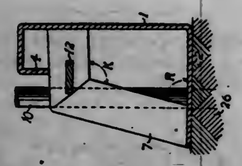


1. A radio receiving system including a radio frequency amplifier, a detector and an audio frequency amplifier, a radio frequency energy pick-up circuit connected with said radio frequency amplifier, an electromagnetic device connected in series with the output circuit of said detector, a variable impedance disposed in said radio frequency energy pick-up circuit, said electromagnetic device operating to vary the value of said impedance according to the amplitude of the energy delivered in the output circuit of said amplifier, and electromagnetic damping means mounted on said electromagnetic device but electrically insulated therefrom for damping the response of said electromagnetic device.

1,916,796. ROAD RAIL FORM. HAROLD L. HIRSCHHORN, New York, N. Y., assignor to Standard Steel Sections, Inc., a Corporation of New York. Filed June 6, 1931. Serial No. 542,607. 3 Claims. (Cl. 25—118.)

1. In a road rail combination, a rail member having a web portion and a base portion with a stake opening therein, a buttress channel member having a stake opening therein, said buttress member joining said web and base portions to reinforce said web portion, and said buttress member comprising a horizontal portion and a leg portion disposed at an angle to the horizontal portion, the horizontal portion being substantially spaced from the

base portion and secured to the web at a top portion only of the web, the leg portion being secured to the base, a stake passing through the respective stake openings of the buttress member and the base, the arrangement being such that the leg portion is substantially spaced from the

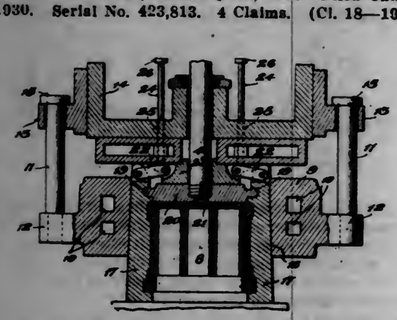


web portion to provide a substantial cut-out opening therebetween, said horizontal portion of the buttress channel member being channeled in vertical cross-section and said leg portion of the buttress channel member being channeled in horizontal cross-section.

1,916,797. PROCESS OF PREPARING ANTIMONATES. FRIEDRICH HÖRNER, Frankfort-on-the-Main, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed June 22, 1932, Serial No. 618,807, and in Germany July 3, 1931. 4 Claims. (Cl. 23—53.)

1. In the process of preparing antimonates the step which consists in heating a mixture of an antimony oxide, an alkali metal chlorate and an alkaline reacting metal compound selected from the group consisting of alkali metal carbonates, alkali metal oxides, alkali metal hydroxides, alkaline-earth metal carbonates, alkaline-earth metal oxides, alkaline-earth metal hydroxides.

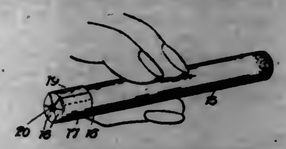
1,916,798. MOLDING PRESS FOR HOLLOW ARTICLES. LOUIS W. HOTTEL, Indianapolis, Ind. Filed Jan. 27, 1930. Serial No. 423,813. 4 Claims. (Cl. 18—19.)



2. In a molding press, an articulated mold plate assembly, a fulcrum plate movable relative to said mold plate assembly, link connections between said fulcrum plate and the mold plates, means for moving the mold plate assembly in a mold closing direction, and stop means for arresting movement of the fulcrum plate during movement of the mold plate assembly in a mold closing direction whereby the link connections between the fulcrum plate and the mold plates are rendered effective to produce closing movement of the mold plates relative to one another.

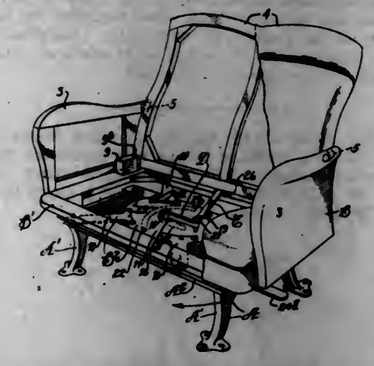
1,916,799. MOUTHPIECE FOR CIGARETTES. JAMES F. HUGHES, New York, N. Y. Filed Feb. 18, 1932. Serial No. 593,846. 3 Claims. (Cl. 131—52.)

1. A mouthpiece for a cigarette, comprising a paper strip adapted to encircle the cigarette end and having tabs adapted to be bent into contact with the tobacco of the cigarette, the tabs when bent having their side edges in overlapping relation and having an annular series of openings for the passage of smoke, and the tabs being adapted when bent to have their free ends arranged in



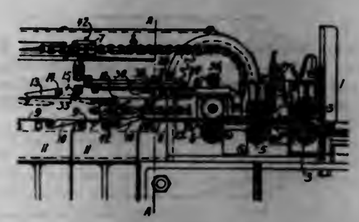
slightly spaced relation to provide an opening concentrically related to said annular series of openings and also providing for the passage of smoke.

1,916,800. REVERSIBLE SEAT OR CHAIR. CHARLES R. HULTGREN, Chicago, Ill., assignor to S. Karpen & Bros., Chicago, Ill., a Corporation of West Virginia. Filed July 15, 1929. Serial No. 378,473. 15 Claims. (Cl. 155—96.)



1. In combination: a base; a chair-structure shiftably and pivotally mounted on said base and equipped with a seat and a back tiltably related to said seat; connections between said chair-structure and said base serving to effect shifting of the chair-structure in the operation of turning the chair-structure; and means for actuating said back with relation to said seat in the operation of turning said chair-structure on said base.

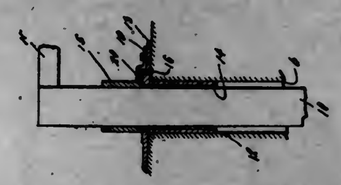
1,916,801. MACHINE FOR SORTING PERFORATED CARDS. KNUT ANDREAS KNUTSEN, Ljan, Norway. Filed Nov. 21, 1929, Serial No. 408,887, and in Norway Sept. 28, 1929. 9 Claims. (Cl. 209—110.)



1. A machine for sorting perforated cards of the type described which comprises in combination, a series of compartments, a slideway above said compartments, conveying means for moving the cards along said slideway, a plurality of flaps, one for each compartment, in said slideway for causing the cards to fall into the compartments to which they are intended, pivoted arms for operating said

flaps, a plurality of series of pivoted catches carried by said conveying means, and disposed at right angles to the direction of travel of the conveying means, each catch of a series being adapted to be swung into an operative position for actuating one of said pivoted arms, a single series of cams disposed along a line forming an acute angle with the direction of travel of the conveying means, a common supporting member for all said cams adapted to slide in a direction at right angles to the direction of travel of the conveying means, an electro-magnet for operating said cam supporting member and a feeler adapted to close the circuit of said electromagnet according to the position of the hole provided in each card, whereby one of the cams is caused to swing one of the catches of one series into its operative position.

1,916,802. RUDDER MOUNTING. OWEN S. LANTZ, South Essex, Mass. Filed Aug. 15, 1932. Serial No. 628,981. 1 Claim. (Cl. 114—169.)

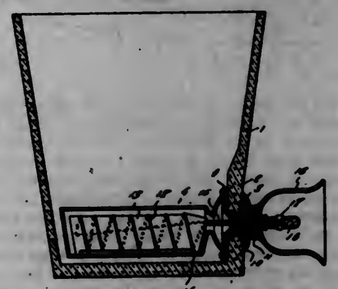


As a new article of manufacture, a rudder mounting comprising a bushing formed with a disk-like attaching plate, a sleeve adapted to fit telescopically in the bushing and designed to surround the rudder shaft, said sleeve having its upper end longitudinally slit and formed with radial, longitudinally extending clamping flanges, said upper end constituting a clamping collar, the intermediate portion of the sleeve being formed with an outstanding circumferential flange adapted to rest on said plate, and a clip secured to said plate and having one end portion positioned to engage over said circumferential flange, and to also engage said clamping flanges for limiting oscillatory movement of the rudder shaft.

1,916,803. PRODUCTION OF SODIUM SULPHIDE. PAUL LEY and LUDWIG TEICHMANN, Leverkusen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Feb. 1, 1932, Serial No. 590,808, and in Germany May 6, 1929. 12 Claims. (Cl. 23—137.)

1. Process for preparing anhydrous, carbon-free sodium sulphide, comprising reducing sodium sulphate by means of hydrogen and performing the whole reduction process in the solid phase.

1,916,804. STERILIZER. GORDON MCNAB, Britton, S. Dak. Filed Oct. 8, 1931. Serial No. 567,708. 2 Claims. (Cl. 219—38.)

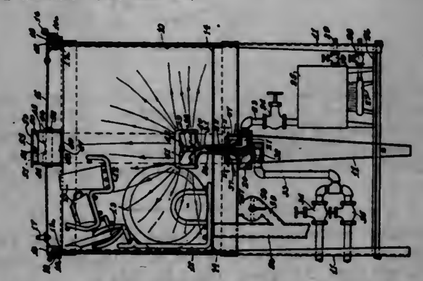


1. A sterilizer for instruments and the like comprising a receptacle having an open top and an opening in a lower wall thereof, a casing located in the lower part of the receptacle and having its bottom spaced from the bottom of the receptacle and its sides slightly spaced from the sides of the receptacle, the upper face of the casing being flat to support articles without injuring the article, the stem connected with the casing and passing through the hole in the receptacle, said stem having an enlargement adjacent its inner end having a flattened outer face, a gasket located between said face and part of the internal wall of the receptacle, a nut on the outer end of the stem for removably holding the stem in the hole, a coil in the casing, a supporting member for the coil located in the casing, the ends of the coil passing through the stem and a plug extending into the stem and having contacts thereon with which the ends of the coil are connected.

1,916,805. PRODUCTION OF SICCATIVES ON THE BASE OF NAPHTHENIC ACID. FRIEDRICH MEISERT, Frankfort-on-the-Main, Griesheim, and HERMANN SCHATZ, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Jan. 11, 1930, Serial No. 420,293, and in Germany Feb. 22, 1929. 7 Claims. (Cl. 134—57.)

1. As a new composition of matter a concentrated siccative preparation for lacquers and varnishes comprising a solution of a naphthenic acid salt of at least one metal of the group consisting of cobalt, manganese, lead, zinc and calcium in a free fatty acid of a drying oil said naphthenate constituting at least about 50% by weight of the preparation.

1,916,806. WASHING MACHINE. GEORGE H. MYRICK, Chicago, Ill. Filed Apr. 20, 1931. Serial No. 531,378. 4 Claims. (Cl. 141—9.)

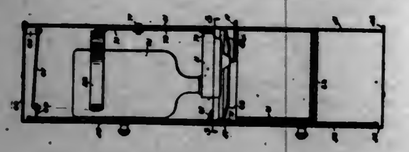


1. In a washing machine, a casing for containing the articles to be washed and having side and bottom walls, a cover for said casing having open and closed positions, a steam nozzle extending upwardly through the bottom wall of said casing, a water nozzle concentric with said steam nozzle and extending through the bottom wall of said casing, a tubular directing member surrounding said nozzles and having an admission opening at its lower end above said bottom wall, a spraying spinner mounted for rotation above the discharge end of said directing member and above and in line with the upper end of said water nozzle, an open water outlet in said casing higher than the admission opening of said directing member, and means for selectively supplying said nozzles with steam and with hot and cold water.

1,916,807. FUEL SUPPLY DEVICE FOR LIQUID FUEL BURNERS. FREDERICK F. NEUMANN, West Hartford, Conn., assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn., a Corporation of Connecticut. Filed Mar. 19, 1931. Serial No. 523,910. 12 Claims. (Cl. 137—68.)

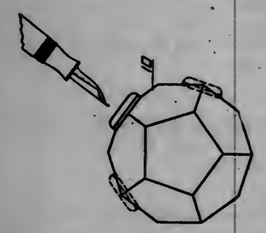
1. A housing for the liquid supplying apparatus of a liquid level maintaining system of the type involving a

constant level supply receptacle, a liquid supply bottle, a device in which the liquid level is maintained, and a conduit for supplying liquid from said constant level receptacle to the said device; said housing comprising, in combination, a sheet metal cabinet for enclosing and protect-



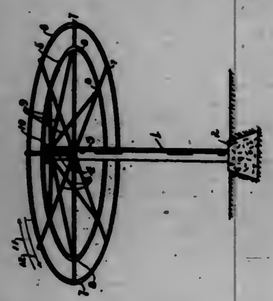
ing said receptacle and bottle and from which said conduit extends, and a support for carrying said receptacle and holding said bottle in inverted, liquid-sealed, supply relation thereto, said support being secured to a wall of said cabinet and being vertically adjustable therein to raise or lower the liquid level in said device.

1,916,808. DESK SET. KENNETH S. PARKER, Janesville, Wis., assignor to The Parker Pen Company, Janesville, Wis., a Corporation of Wisconsin. Filed July 18, 1931. Serial No. 551,716. 8 Claims. (Cl. 120—108.)



1. A writing instrument receptacle comprising in combination a base, an aperture in said base, and means on and integral with said base whereby upon oscillation thereof a writing instrument mounted in said aperture may be angularly adjusted relative to the plane on which the base rests.

1,916,809. PLAYGROUND APPARATUS. JAMES F. PATTERSON, San Jose, Calif. Filed Mar. 19, 1930. Serial No. 437,045. 2 Claims. (Cl. 272—60.)



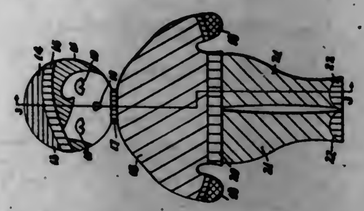
1. An exercising apparatus comprising, supporting means, and a pair of hand-bars forming rings of different diameters concentrically and horizontally disposed thereon and spaced from the ground to permit a child to swing freely therefrom and arranged for permitting the user to travel therealong indefinitely in one direction by swinging alternately from one bar to the other.

1,916,810. ELECTRICALLY HEATED BAKE OVEN. OTTO SCHMIDT, Feuerbach, Germany, assignor to Baker Perkins Company, Inc., Saginaw, Mich., a Corporation of New York. Filed Apr. 3, 1930. Serial No. 441,190. 2 Claims. (Cl. 219—35.)



1. In a traveling oven, an elongated baking passage and a conveyor therein, electrically heated heat accumulators, located at spaced intervals along said baking passage in proximity to the conveyor and non-accumulating electric heating elements located along said passage in the spaces between said heat accumulating elements.

1,916,811. DOLL. FRANK M. SCHWARTZ, New York, N. Y. Filed Dec. 12, 1931. Serial No. 580,513. 5 Claims. (Cl. 46—40.)

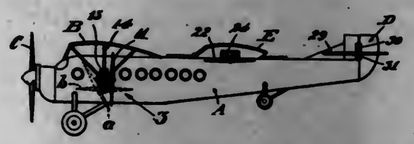


1. A doll, comprising material in the form of a doll, applique patches thereon to form the features thereof, larger applique patches over said patches to form different features thereof, and means to hold the outer applique patches in place to allow removing to expose the inner ones.

1,916,812. MACARONI AND METHOD OF MAKING THE SAME. BAYARD S. SCOTLAND, Joliet, Ill. Filed Mar. 20, 1931. Serial No. 524,218. 3 Claims. (Cl. 99—1.)

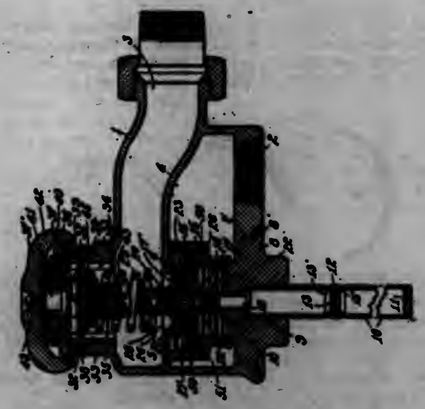
1. The method of making macaroni which consists in forming a dough containing uncooked flour and uncooked white only of eggs; forming thin walled tubular sections from said dough; and then drying said sections.

1,916,813. AEROPLANE. MICHELE SESSA, Los Angeles, Calif. Filed Apr. 4, 1932. Serial No. 602,987. 2 Claims. (Cl. 244—14.)



2. In an aeroplane, a fuselage, main wings extending transversely of the fuselage, supplemental wings extending transversely of the fuselage in horizontal spaced relation to said main wings, a power propelled propeller arranged beneath each of said wings, the propellers beneath the main wings being mounted for operation on various planes relatively to the main wings, and the propellers beneath the supplemental wings being carried thereon and being arranged to rotate on a plane parallel therewith, and means for shifting said supplemental wings longitudinally of the fuselage to vary the spacing of the propeller thereon relatively to the propellers beneath the main wings.

1,916,814. RADIATOR VALVE. PAUL F. SHIVERS, Wabash, Ind., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a Corporation of Delaware. Filed Dec. 18, 1930. Serial No. 503,190. 9 Claims. (Cl. 236—42.)



1. A thermo-responsive valve comprising inlet and outlet chambers and an interposed valve seat, a bellows mounted in one of said chambers, a container for volatile liquid arranged in communication with said bellows, a valve carried by said bellows and positioned to coact with said valve seat, a coiled spring acting upon said bellows in opposition to pressure therein created by the volatile liquid, and a yieldable resistance element associated with said spring to damp axial vibrations thereof.

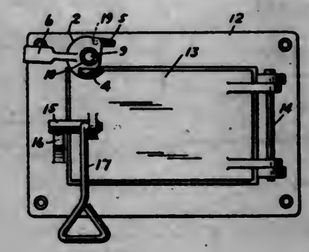
1,916,815. SHOE BACK AND HEEL PROTECTOR. JOSEPHINE N. SMITH, Brooklyn, N. Y. Filed Mar. 30, 1932. Serial No. 601,921. 3 Claims. (Cl. 36—72.)



1. In a shoe back and heel protector, a sheet body comprising a chest portion for extending across a portion of the heel and the back of a shoe, a neck portion connected with the top of the chest portion and having its sides extending over portions of said chest portion in a position to form a hollow corresponding with the convexed surface of the rear of the shoe, said neck portion being for extending across a portion of the back of the shoe, a head portion connected upon the top of the neck portion for extending across the upper portion of the back of the shoe, and means connected between said overlapped portions of the chest portion for urging the chest portion into a position of maximum degree of hollowness.

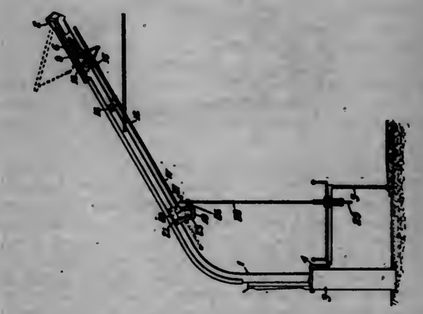
1,916,816. AUTOMATIC LATCHING DEVICE. EDMUND T. SPRAKE, Plymouth, Pa., assignor of one-fourth to John Daugherty, Plymouth, Pa., one-fourth to Lazarus Lowe, and one-fourth to O. E. Matter, Kingston, Pa. Filed Dec. 17, 1931. Serial No. 581,617. 4 Claims. (Cl. 292—198.)

1. In a door structure including a door frame and a door hingedly mounted on said frame, a latch pivotally mounted on said frame adjacent said door, a counterweight on said latch, a cam face on said latch adapted to be engaged by said door in closing to rotate said latch in one direction, and a second cam face on said



latch adapted to be engaged by said door upon closing to rotate said latch in the opposite direction, and to close said latch upon said door by the action of said counterweight.

1,916,817. SASH OPERATING MECHANISM. EDWIN W. TERHUNE, Irvington, N. Y., assignor to Lord & Burnham Company, Irvington, N. Y., a Corporation of New York. Filed Nov. 19, 1928. Serial No. 320,399. 7 Claims. (Cl. 268—108.)

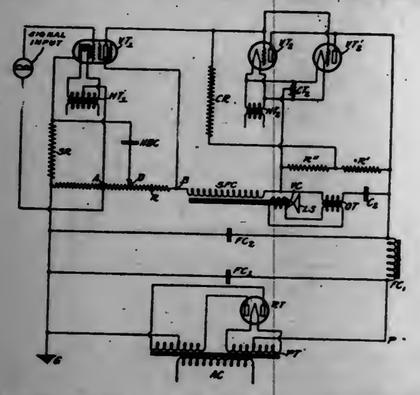


1. Sash actuating mechanism comprising in combination a sash mounted for pivotal movement about a horizontal axis, roof bars extending normal to said axis, a line shaft mounted on and contiguous to said roof bars and extending normal thereto, an operating rod mounted below and adjacent to a roof bar so as to permit axial movement of the operating rod normal to the line shaft, means for obtaining axial movement of said operating rod, including a screw thread and nut at one portion of said operating rod, and means for transmitting the axial movement of the operating rod to the sash, including a rod and arm connection between the operating rod and the line shaft, and a rod and arm connection between the line shaft and the sash.

1,916,818. ELECTRON TUBE SYSTEM. SIDNEY Y. WHITE, New York, N. Y., assignor to Edward H. Loftin, trustee. Filed Apr. 18, 1930. Serial No. 445,285. 2 Claims. (Cl. 179—171.)

1. In an electron tube system, the combination of a source of unidirectional current, an indicator having a field coil and an input impedance, an output tube the plate of which is directly connected to the positive terminal of said source, the cathode of said tube being con-

nected to the negative terminal of said source by way of said field coil, and a coupling between the plate and cathode of said tube including in series a condenser and



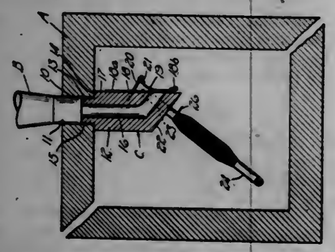
said input impedance of the indicator, whereby said indicator is energized at least substantially with discharge current from said output tube.

1,916,819. SUGAR MEASURING AND SERVING DEVICE. JOSÉ ACOSTA, New York, N. Y. Filed May 3, 1932. Serial No. 608,909. 7 Claims. (Cl. 221—98.)



1. A sugar measuring and serving device, comprising a container open at the top, a hollow cover detachably mounted upon the top of the container and having a discharge spout and a valve seat arranged on the inner wall thereof, a cup shaped valve with lugs resting on the top of said container in its open position and adapted to engage against said valve seat in its closed position, and an inverted funnel shaped member fixedly connected with the cup shaped valve and spaced from the inner wall of the cup shaped valve allowing for the passage of material and having a tubular end slidably engaged in said spout.

1,916,820. ELECTRICALLY OPERATED VALVE FOR ORGAN PIPES. BASIL G. AUSTIN, West Hartford, Conn., assignor to The Austin Organ Company, Hartford, Conn., a Corporation of Connecticut. Filed Aug. 10, 1932. Serial No. 628,218. 6 Claims. (Cl. 84—339.)



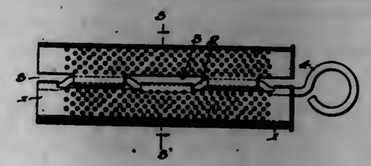
1. A valve comprising a valve body having a valve seating surface provided with a port, a rocking member having a surface opposed to said seating surface, a sealing strip disposed between said surfaces and having one end connected to said rocking member, and means for rocking said rocking member, one of said surfaces being curved in the direction of movement of said rocking member.

1,916,821. BRACELET. SIDNEY O. BIGNEY, Attleboro, Mass., assignor to S. O. Bigney & Company, a Corporation of Massachusetts. Filed June 24, 1932. Serial No. 619,049. 3 Claims. (Cl. 29—84.)



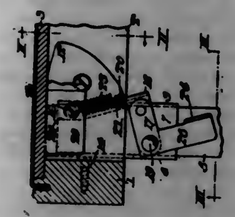
1. The method of forming a bracelet which consists in providing a channel member with inturned flanges, positioning a flexible strip of metal beneath said flanges holding said member in engagement with said flanges by the insertion of an element between said member and strip, securing said strip to the flanges of said member and subsequently removing said element.

1,916,822. SPOOL. OTTO BOCHMANN, Remscheid-Lennep, Germany, assignor to American Glanzstoff Corporation, New York, N. Y., a Corporation of Delaware. Filed June 2, 1931, Serial No. 541,625, and in Germany June 13, 1930. 5 Claims. (Cl. 242—72.)



1. A spool comprising, in combination, a cylindrical body portion with a slot extending longitudinally thereof, a plurality of rolled-over portions at the edges of the slots, and a crank-like wire engaging alternately the edges of the slots at the rolled-over positions.

1,916,823. FOLDING TABLE. BERNARD BOESWINKEL, Woodcliff, N. J., assignor to Ferguson Brothers Manufacturing Company, Hoboken, N. J., a Corporation of New Jersey. Filed May 24, 1932. Serial No. 613,197. 1 Claim. (Cl. 45—11.)



A hinge structure for folding table legs comprising a table top hinge member U-shaped in cross section, a leg hinge member embracing the leg and inserted between the sides of the table top hinge member, a pivot screw passing through the leg and the sides of said table top and leg hinge members into the table top frame side rail, and a spring actuated swinging latch carried by the leg hinge member, the sides of the table top hinge member

having alined notches for receiving the latch to lock the leg in its unfolded position and alined shoulders for engaging the latch to yieldingly retain the leg in its folded position.

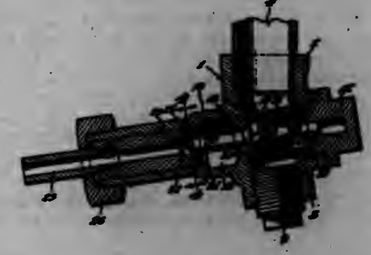
1,916,824. REMOVAL OF SULPHUR COMPOUNDS FROM GASES. KARL BRAUS, Oppau, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Aug. 27, 1930, Serial No. 478,807, and in Germany Sept. 8, 1929. 5 Claims. (Cl. 23—3.)

1. In the removal of organic sulphur compounds contained in a gas obtained by distillation of a solid fuel, the step which comprises freeing the said gas from unsaturated and higher molecular hydrocarbons and then treating it while heating to from 300° to 400° C. with a hydrogenating catalyst in the absence of nascent hydrogen.

1,916,825. SEPARATING SUBSTANCES FROM SOLUTIONS THEREOF. KARL BURROUGHS, Watertown, Mass. Filed Nov. 29, 1930. Serial No. 499,047. 4 Claims. (Cl. 23—1.)

1. A method of recovering a salt from a solution containing the same which comprises establishing a continuous supply of the liquid at a rapid rate to a zone of refrigeration to effect precipitation of salt in said zone, withdrawing the precipitated salt with the stream of liquid, checking the velocity of the stream to permit substantial separation of the precipitate and redirecting the supernatant liquor to return to the zone of refrigeration to complete a closed, continuously flowing system.

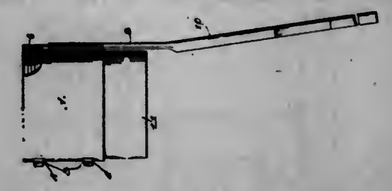
1,916,826. FLANGE OILER. ELMER O. CORNY, Norwood, Ohio, assignor to The Edna Brass Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 16, 1930. Serial No. 482,250. 3 Claims. (Cl. 184—3.)



1. A lubricator, comprising, a hollow body interiorly providing a supply chamber and a dispensing chamber connected by a port, a valve for closing said port, a tubular plunger reciprocable in a cylindrical portion of said body, its inner end adapted to dip into said dispensing chamber in a retreat stroke of the plunger for collecting a charge of oil, a rod extending from said valve coaxially with the bore of the plunger to close the bore against the admission of oil in a retreat stroke of the plunger and to connect the plunger and valve for unseating the valve.

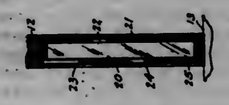
1,916,827. PISTON RING COMPRESSOR. GEORGE F. CREMER, Milwaukee, Wis., and ROY N. SMITH, San Francisco, Calif. Filed Feb. 4, 1931. Serial No. 513,328. 1 Claim. (Cl. 29—86.4.)

As a new article of manufacture, a piston ring compressor comprising a sleeve including a pair of semi-circular companion sections, one of said sections having a series of spaced openings formed therein, the other of said sections having struck-out tongues for selective engagement within the openings, out-turned flanges formed on facing ends of the sections, and a manipulating handle having a flat shank portion provided with converging



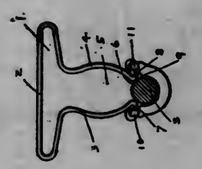
guide channels on its side edges for receiving the flanges, and an integral hand grip formed on one end of the shank extending at an angle thereto.

1,916,828. ROBBERYPROOF CASHIER'S WINDOW. JOHN J. DE GLORIA, San Leandro, Calif. Filed July 20, 1931. Serial No. 551,860. 8 Claims. (Cl. 20—1.01.)



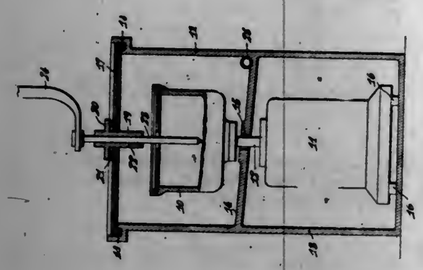
1. A cashier's window comprising two spaced apart, parallel, transparent plates of bullet resistant material, each of said plates having a sound aperture formed therethrough, said sound apertures being normally out of alignment to prevent passage of a projectile in a direct line through both apertures and permit passage of sound, and means for aligning said apertures for the direct passage of articles and sound.

1,916,829. BUTTON LOOP. GEORGE HENRY ELWELL, New Haven, Conn., assignor to The Wire Novelty Manufacturing Company, West Haven, Conn., a Corporation of Connecticut. Filed July 16, 1931. Serial No. 551,156. 1 Claim. (Cl. 24—224.)



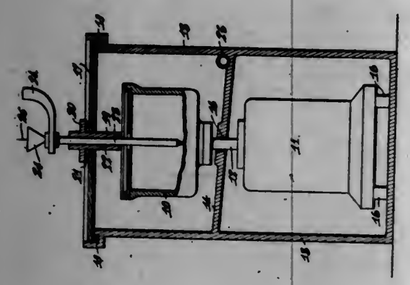
A button loop comprising a wire member of which a middle portion of a piece of round wire is bent to provide a suspension loop having depending spring arms adapted for lateral movements and formed to together provide a button-receiving loop having a contracted portion and wire terminals bent in substantially opposite directions, and a rigid button-retaining member having flat extremities formed to provide sleeves for the holding and snug lateral movement therein of said wire terminals only along arcs described by said terminals upon the lateral movement of said arms, the relative directions, one to the other, of each terminal-holding course through said sleeves being such that said members are thereby held against relative pivotal movement and said rigid member being held against substantial axial movement and permitting only the lateral movement of said wire terminals toward and away from each other in substantially opposite directions.

1,916,830. CENTRIFUGE. RUDOLF ETZKORN, Oberbruch, Regierungsbezirk Aachen, Germany, assignor to American Glasswoff Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 1, 1932, Serial No. 596,040, and in Germany Mar. 12, 1931. 7 Claims. (Cl. 118—49.)



2. In a device of the class described, a housing having located therein a spinning pot, a cover for said housing having an opening formed therein, packing means fitting loosely in said opening, thread guide means passing through said packing means and into said spinning pot, means to impart reciprocatory motion through said thread guide, and means located in said housing whereby a partial vacuum may be produced therein.

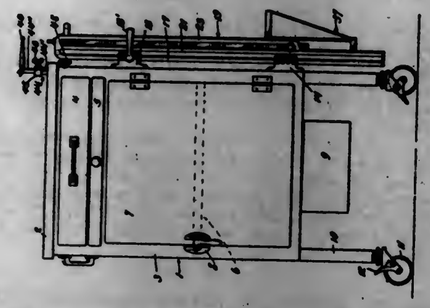
1,916,831. METHOD FOR THE MANUFACTURE OF ARTIFICIAL SILK. RUDOLF ETZKORN, Oberbruch, Germany, assignor to American Glasswoff Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 25, 1932, Serial No. 601,296, and in Germany Apr. 11. 1931. 2 Claims. (Cl. 18—54.)



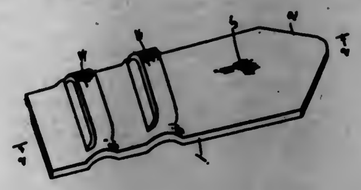
1. A process for the reduction of the energy consumption for rotating spinning pots which comprises enclosing the spinning pot in an evacuated chamber, leading the thread into said chamber through a narrow opening and in maintaining a constant flow of liquid through said opening during the spinning operation whereby the ingress of air into said chamber is prevented.

1,916,832. HOSPITAL BEDSIDE UNIT. JOHN FEHL and ALVA BELCHER, Jersey City, N. J. Filed Apr. 10, 1931. Serial No. 529,024. 2 Claims. (Cl. 45—111.)

1. A bedside unit, a bedside feeding table carried by said unit, said bedside feeding table comprising a flat top, a frame supporting said top, said frame carrying lugs, said lugs adapted to slide in slots of supporting rods, supporting rods mounted on said unit, cross bars connecting said supporting rods at the top to retain said top and frame vertical and cooperating with said lugs and supporting rods to maintain said top and frame in horizontal position when said top and frame are vertically raised to their limiting position and lowered to the horizontal.

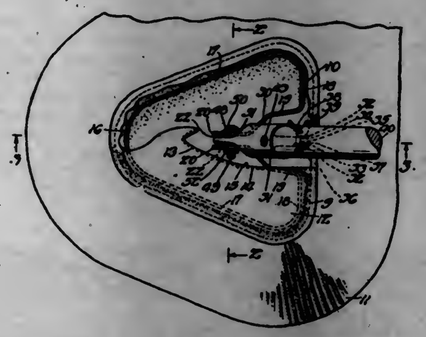


1,916,833. EARTH WORKING IMPLEMENT. LORENZO G. GADD, Hollister, Calif. Filed June 13, 1932. Serial No. 616,796. 2 Claims. (Cl. 97—203.)



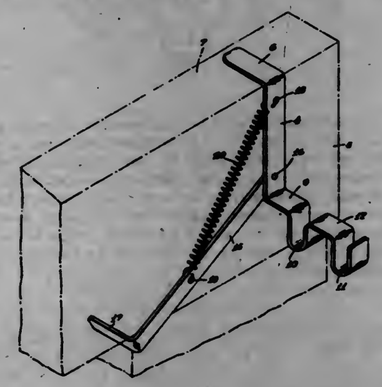
1. A device of the character described comprising, a tooth point for harrows and the like having parts formed integrally therewith and on one side thereof to overlie and frictionally engage the body of the tooth at spaced points, and means formed integrally therewith and on the same side of the point to urge the parts into said frictional engagement when the point is forcibly mounted upon the body.

1,916,834. MOP. JOHN GLOVER, Chicago, Ill. Filed Dec. 4, 1930. Serial No. 499,859. 2 Claims. (Cl. 15—229.)



1. The combination of a mop head comprising a collapsible spreader member having a selected peripheral configuration and possessing parts extending inwardly from one edge to a position centrally thereof, and means at the ends of said inwardly extending parts for attaching a handle to said mop head, of a mop member comprising a lower sheet of material of a shape similar to the shape of said spreader member when the latter is extended, thrums depending from said sheet, an upper sheet of material congruent to said lower layer and having a narrow opening extending inwardly from an edge to slightly past the center thereof, said sheets being bound together at their edges to form a pocket, and said mop head when collapsed being insertable into said pocket, the opening therein extending inwardly beyond the handle attaching means on said head.

1,916,835. HANGER. SAMUEL GOLDSTEIN, Boston, Mass. Filed Nov. 23, 1932. Serial No. 644,036. 9 Claims. (Cl. 156—22.)



1. A hanger comprising at least two arms pivoted together and adapted to engage yieldingly the top and bottom of a lintel, respectively.

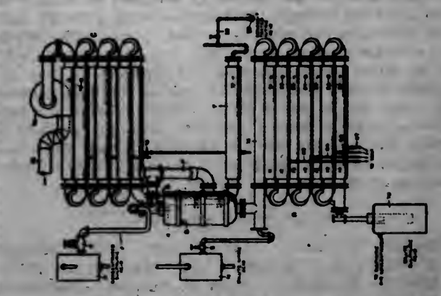
1,916,836. PRODUCTION OF SHAPED ARTICLES FROM MASSES CONTAINING SILICON. HANS HAUBER, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Dec. 14, 1931, Serial No. 581,079, and in Germany Dec. 22, 1930. 1 Claim. (Cl. 25—156.)

A process for the production of shaped masses from metallic silicon which comprises mixing metallic silicon with a ceramic material sintering below 1000° C., heating the mixture obtained to a temperature above the sintering temperature of said ceramic material but below 1000° C., imparting to the obtained mass the desired shape by a mechanical operation and heating the shaped mass to a temperature between 1000° C. and the melting point of the metallic silicon contained therein.

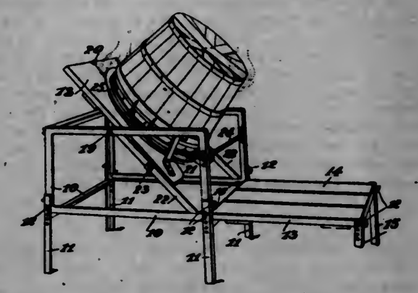
1,916,837. NITRIC ACID CONCENTRATION. INGENUIN HECHENBLEIKNER, Charlotte, N. C., and SAMUEL F. SPANGLER, Philadelphia, Pa., assignors to Chemical Construction Corporation, Charlotte, N. C., a Corporation of North Carolina. Filed May 9, 1930. Serial No. 450,912. 29 Claims. (Cl. 23—160.)

1. In the operation of a nitric acid separator or/and concentrator comprising a series of heated retort tubes, the method which includes mixing the dilute nitric acid with sulphuric acid and passing the resulting acid mixture through the retort tubes, and independently controlling the level of the acid mixture in each of the retort tubes relative to the levels in the other tubes in order to obtain the most favorable evolution of nitric acid.

4. A nitric acid separation or/and concentration system comprising a plurality of vertically superposed retort tubes connected in series and each provided at its discharge end with a dam, a relatively short dehydrating tower connected thereto, a sulphuric acid supply tank arranged to cause sulphuric acid flow through the dehydrating tower and into the retort tubes, a supply tank for dilute nitric acid connected to the retort tubes below the tower, and means to heat the retort tubes.

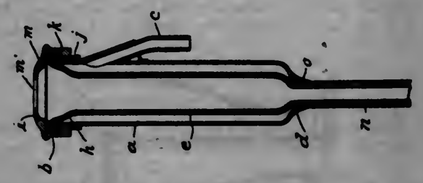


1,916,838. BASKET TURNER. ENOS B. HIATT, Denver, Colo., assignor to Ovenda Corporation, Chicago, Ill., a Corporation of Illinois. Filed Aug. 8, 1930. Serial No. 473,834. 8 Claims. (Cl. 226—17.)



1. A container inverting device comprising a main frame, a rotatable working top having an arm slot cut therein, means for normally supporting said top in horizontal position, brackets rigidly fastened to said top to support a container when said top is rotated, and a horizontal rod carried by said frame and positioned to act as a pivot for said container during the inverting operation.

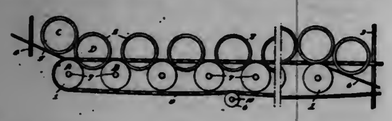
1,916,839. MILKING MACHINE TEAT CUP. JOHN L. HULBERT, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 14, 1931. Serial No. 515,686. 1 Claim. (Cl. 31—85.)



A teat cup for milking machines comprising a rigid tubular shell with a large opening at one end and a smaller opening at the other end, a flexible liner having a body portion, an abruptly enlarged portion at one end of the body portion of sufficient length to allow the folding back over the end of the shell a varying distance, a

milk tube of reduced diameter connected to the other end of the body of the liner, a shoulder on the milk tube end of greater diameter than the smaller opening in the shell, the milk tube and shoulder being arranged to be inserted into the shell through the larger opening with the milk tube extending through the smaller opening, after which the enlarged portion of the liner is folded over the edge of the larger end of the shell and drawn down over the outside to leave the proper amount of the body between the larger end of the shell and the shoulder on the milk tube to properly tension the liner when the shoulder is drawn through the smaller opening in the shell, and means for securing the liner to the shell in its adjusted position at the larger end thereof.

1,916,840. ROLLER DRIER FOR CYLINDRICAL BODIES AND METHOD OF HANDLING SUCH BODIES THEREIN. JOHN P. KELLER, Orangeburg, N. Y., assignor to The Fibre Conduit Company, Orangeburg, N. Y., a Corporation of New York. Filed Apr. 16, 1931. Serial No. 530,709. 10 Claims. (Cl. 198—127.)



1. A method of advancing a cylindrical body across a train of rolls to successive positions in which it is caused to rotate freely about its own axis by its tractive engagement with successive pairs of said rolls, said method consisting in placing said cylindrical body on one pair of said rolls, applying a tangential force to said body to retard its rotation about its own axis thereby combining the tractive engagement of the supporting roll in advance of the body with the counter-tangential effect of said force to raise said cylindrical body from its position on said pair of rolls and over the roll in advance thereof.

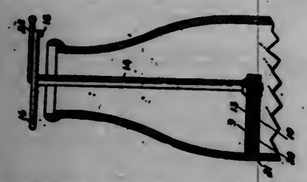
1,916,841. AMMONIUM NITRATE-SULPHITE FERTILIZER SALT AND METHOD OF MAKING SAME. HERMANN KLIPPEL, Ludwigshafen-on-the-Rhine, and ERNST JAENECKE, Heidelberg, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed June 3, 1931, Serial No. 541,948, and in Germany June 7, 1930. 7 Claims. (Cl. 71—9.)

1. As a new article of manufacture the double compound of the formula

$$NH_4NO_3.(NH_4)_2SO_3.$$

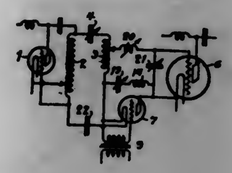
3. The process of producing a double salt suitable for fertilizing purposes which comprises contacting ammonia and sulphur dioxide with ammonium nitrate in the presence of water.

1,916,842. CREAM SEPARATOR FOR MILK BOTTLES. GERALD LANDER, Vineland, Ontario, Canada. Filed Apr. 7, 1932. Serial No. 603,768. 1 Claim. (Cl. 210—51.5.)



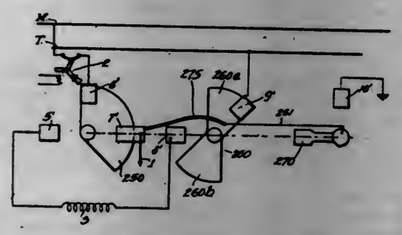
A cream separator for a milk bottle comprising a head composed of radial blades arranged one on top of another, a hollow stem fixed to the top blade, a rod running through and fixed to the bottom blade, a quadrant secured to the top of the stem, a depression therein, a lever rigid with the upper end of the rod for turning around said quadrant and engaging in said depression.

1,916,843. HIGH FREQUENCY TRANSMITTER. WILHELM LANGEWIESCHE, Berlin-Tempelhof, Germany, assignor of fifty per cent to Radio Patents Corporation, New York, N. Y. Filed Sept. 20, 1930, Serial No. 483,241, and in Germany Sept. 21, 1929. 9 Claims. (Cl. 250—17.)



1. In combination with a telephone transmitter, a master oscillator generating high frequency currents, a power amplifying tube controlled by said master oscillator, a modulating tube having its filament inserted in the output circuit of said master oscillator to be heated by said high frequency current and having its anode connected to the cathode of said power amplifying tube and a high frequency shunt between the cathode and anode of said modulating tube.

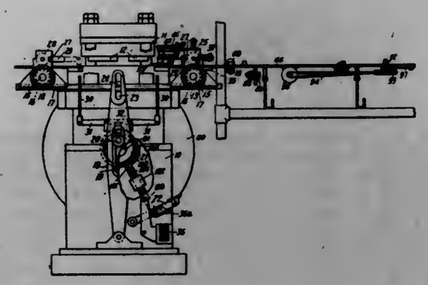
1,916,844. ROTARY SWITCH AND SWITCHING SYSTEM. TITUS G. LE CLAIR and CHARLES M. GROSS, Chicago, Ill. Filed June 28, 1930. Serial No. 464,554. 12 Claims. (Cl. 171—97.)



1. A switch comprising a casing adapted to contain an insulating liquid, a plurality of bushings extending into the casing, a line connection, main and transfer bus connections and regulator connections all extending through said bushings and terminating in separate contacts below the liquid level in the casing, a switch shaft in the casing, and switch blades mounted on the shaft for engagement with the respective contacts and selectively establishing circuit connections between them, said switch blades and contacts being disposed to maintain the circuit to the contact terminating the first mentioned connection uninterrupted during the selective switching movement of the shaft, the blade engaging one of the regulator contacts being electrically connected to the main bus switch blade and to the line switch blade.
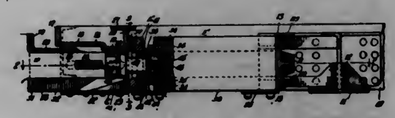
12. An electric system wherein there is a first bus, a second bus, a line, a regulator, and switching means for selectively connecting the line to either bus and for interconnecting the buses and for including and excluding the regulator in certain of said connections, characterized in that the switching means comprises a multicircuit controller of a circuit interrupting capacity substantially below that required for the system, and an oil circuit breaker for interrupting the circuit.

1,916,845. AUTOMATIC FEED CONTROLLING MECHANISM FOR PUNCH PRESSES AND THE LIKE. GEORGE H. LELAND, Dayton, Ohio, assignor to The Leland Electric Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 16, 1931. Serial No. 575,824. 25 Claims. (Cl. 271—2.4.)



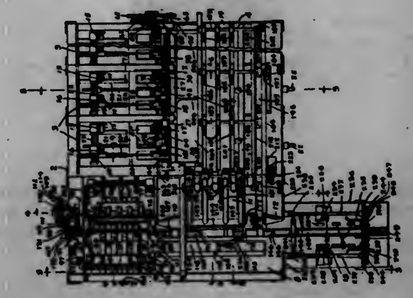
1. The combination with a machine having a part to operate on strips of material fed successively thereto, cooperating members to feed a strip to said operating part, one of said members being movable to an inoperative position, and a device to retain said member in its inoperative position, of means for moving said retaining device to an inoperative position, comprising a part arranged in a predetermined position beyond said feeding members, in advance of the part which operates on the strip and in the path of a strip inserted between said feeding members, and means for moving the last mentioned part out of the path of said strip after it has been actuated thereby, and before said strip has been advanced by said feeding members.

1,916,846. RAILWAY DRAFT RIGGING. HARVEY J. LOUNSBURY, Glen Ellyn, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 13, 1928. Serial No. 253,878. 4 Claims. (Cl. 213—22.)



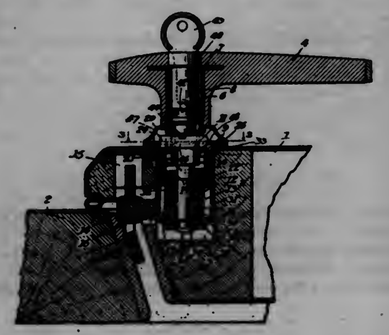
1. In a railway draft rigging, the combination with a shock absorbing mechanism including a friction shell open at one end, and friction means within the shell, said shell and friction means being relatively movable lengthwise of the mechanism and said shell being held against movement inwardly of the rigging, said shell being movable outwardly in draft; of a main follower, said follower and shell being relatively movable toward and away from each other, and said follower being held against outward movement, said follower having a main portion engageable with said shell to limit relative movement of the shell and follower, and an inwardly offset central portion adapted to enter the shell, said offset portion being engageable with said friction means during a draft action; and a pressure transmitting plunger adapted to receive buffing forces extending through said follower and relatively movable with respect to the same, said plunger engaging the friction means to actuate the friction means during inward or buffing movement of the plunger.

1,916,847. GATHERING AND INSERTING MACHINE. FLORENCE MCCARTHY, New York, N. Y., assignor, by mesne assignments, to McCarthy Business Machines Co., Inc., New York, N. Y., a Corporation of Delaware. Filed June 18, 1926. Serial No. 116,786. 64 Claims. (Cl. 93—6.)



1. A machine of the character described having a plurality of enclosure magazines, an envelope magazine, means for presenting the envelopes successively for loading means, for delivering enclosures simultaneously from the enclosure magazines at different points, and mechanism operative to translate the delivered enclosures so as to form collections by addition resulting from successive deliveries, and means forming part of the same mechanism operative to positively insert the successive collections into the envelopes by further translational movement in the same direction.

1,916,848. CONCEALED REFRIGERATOR LOCK. EDWIN W. NORTH, Rockford, Ill., assignor to National Lock Co., Rockford, Ill., a Corporation of Delaware. Filed May 22, 1931. Serial No. 539,188. 11 Claims. (Cl. 70—91.)

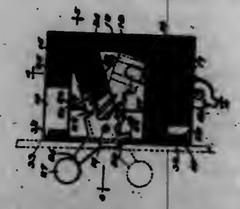


1. In a concealed refrigerator lock, a post, a handle secured to one end of said post for rotating the latter and a bolt secured to said post for rotation therewith, and means for heat insulating said bolt from said post to prevent transmission of heat from said bolt to said post.

1,916,849. ELECTRIC SWITCH. THOMAS L. PARKER, Chicago, Ill. Filed Apr. 24, 1929. Serial No. 357,752. 3 Claims. (Cl. 200—67.)

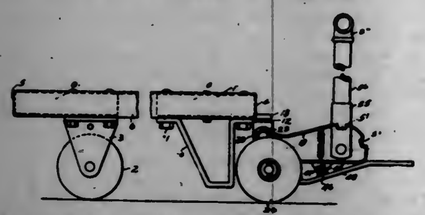
3. An electric switch comprising a plurality of contact brushes, a pivotally mounted operating lever having a socket formed therein, a rocker arm independent of said lever and pivotally mounted on an axis coincident with the pivotal axis of the lever, a plurality of insulating washers mounted on the free end of said arm and having shouldered portions formed on their adjacent ends, an

electrical connector ring mounted on said washers between said shouldered portions, a rivet for securing said washers to said rocker arm, and resilient means having one of its end portions engageable with said socket and



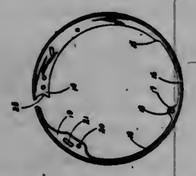
its opposite end with said rivet for imparting an impulsive movement to said arm and electrical connector in a manner to connect or disconnect said brushes when said lever is moved in one direction or another.

1,916,850. HAND TRUCK. SVEN JOHAN PEHRSSON, Elyria, Ohio, assignor to The Colson Company, Elyria, Ohio, a Corporation of Ohio. Filed Nov. 30, 1928. Serial No. 322,649. 6 Claims. (Cl. 280—46.)



1. In a device of the class described, a platform truck having a pair of wheels at one end and a stationary support at the other, a downwardly extending lug attached to the stationarily supported end, a removable jack, said jack comprising in combination a channel frame, a pair of wheels supporting the frame, a handle, socket means adapted to receive the lug on said platform, lever operable means pivotally secured to the said frame adapted to lock said lug receiving means, and means to unlock said lock, said unlocking means comprising a pedal pivotally supported on said frame, said jack being adapted to raise the stationarily supported end of the platform.

1,916,851. BRAKE SHOE AND METHOD OF MAKING SAME. JOHN SNEED, Grosse Pointe Shores, Mich. Original application filed Mar. 16, 1929, Serial No. 347,515. Divided and this application filed Apr. 10, 1930. Serial No. 443,061. 18 Claims. (Cl. 29—152.1.)



1. A brake shoe formed from T section stock rolled into a split ring with an inwardly extending reinforcing flange of uniform depth, said flange being cut away at various points to give different characteristics of flexibility and rigidity to different sections of the shoe.

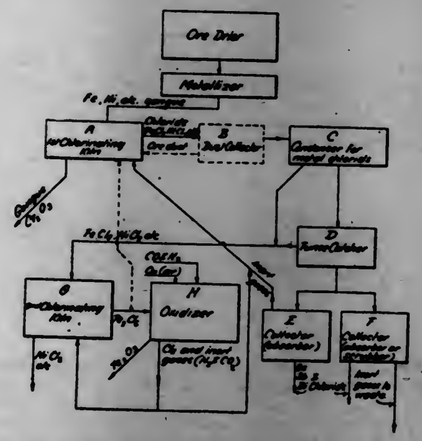
6. The method of forming a brake shoe which consists in rolling stock of T section into a split ring while leaving the flange intact and thereafter trimming the flange to vary the rigidity of the shoe throughout various parts according to the depth of the remaining flange.

1,916,852. REFRIGERATOR CONSTRUCTION. FRANCIS MARVIN SUTTON, New York, N. Y. Filed June 10, 1930. Serial No. 460,113. 4 Claims. (Cl. 312—150.)



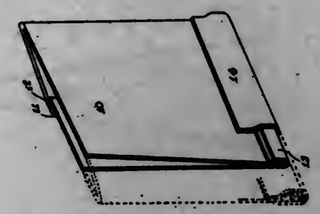
2. In a refrigerator construction, a support comprising front and rear frames each consisting of vertical members spaced fom each other by horisontal members, and a plurality of horizontal members connecting said frames, a plurality of removable trays adapted to be positioned in said support and supported on said horizontal frame connecting members, said trays having front, rear and side members and bottom covered with wire mesh, a horizontal angle bar secured to each side of said tray, cut out portions in the vertical members of the front frame of said support adapted to receive the horizontal angle bars of said trays, cut out portions in the horizontal frame connecting members of said support, means on said trays to abut against said horizontal frame connecting members of said support to prevent the accidental withdrawal of said trays.

1,916,853. PROCESS OF TREATING ORES. ERNEST W. WESCOTT, Niagara Falls, N. Y., assignor, by mesne assignments, to Sulphide Corporation, a Corporation of Delaware. Filed June 1, 1929. Serial No. 367,814. 23 Claims. (Cl. 23—200.)



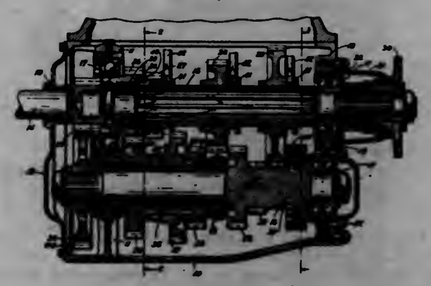
1. The process of treating in a dry way and at elevated temperatures materials containing iron and optionally containing other values with cyclic use of chlorin which comprises supplying such a material to a chlorinating zone, chlorinating iron present therein to ferrous chlorid with a gaseous mixture of a chlorinating agent and an inert diluent gas, withdrawing said chlorid and other values from reaction-inhibiting relation with said material and separating any non-ferrous heavy metal chlorids present and at least part of said ferrous chlorid from the gangue by vaporization, condensing the chlorids so vaporized, treating said ferrous chlorid to convert the iron into oxid with simultaneous generation of dilute chlorinating gases and using dilute chlorinating gases so generated to chlorinate fresh material.

1,916,854. RECEPTACLE. LUDWIG BISCHOFF, Brooklyn, N. Y. Filed Dec. 29, 1932. Serial No. 649,427. 2 Claims. (Cl. 229—57.)



2. As an article of manufacture, a bag comprising a tubular body having flush cut ends; a short folded back portion on one end abutting a side wall of the body with the end edges of the plies exposed; and an imperforate adhesive strip secured to the closed end of the bag on the opposite side walls covering the folded back plies from one side edge of the bag to the other, said adhesive strip being also secured to the outer face of the outer folded back ply and to the exposed end edges of both folded back plies constituting the sole sealing means for the closed end.

1,916,855. TRANSMISSION. HAROLD D. CHURCH, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 30, 1928. Serial No. 250,546. 8 Claims. (Cl. 74—58.)



1. In a transmission mechanism the combination of a driving shaft provided with a plurality of gears, a driven shaft comprising a splined portion and having a plurality of gears movably mounted thereon, a counter-shaft provided with gearing, one gear of which is in constant mesh with one of the driving shaft gears, a second countershaft comprising a sleeve rotatable upon said first countershaft provided with gearing, one gear of which is in constant mesh with one of the driving shaft gears, one of said driven shaft gears being electively engageable with either of a pair of similar gears associated respectively with each of the said counter-shafts.

1,916,856. CLOTHESPIN. LLOYD G. COPEMAN, Flint, Mich., assignor to Copeman Laboratories Company, Flint, Mich., a Corporation of Michigan. Filed May 5, 1930. Serial No. 449,834. 4 Claims. (Cl. 24—138.)



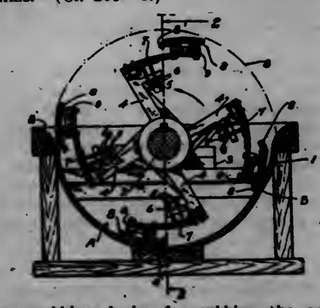
1. As a new article of manufacture, a rubber clothes pin having downwardly extending similarly shaped leg members with converging inner faces, said leg members being substantially in contact with each other at said converging faces, said leg members having diverging end portions, and said leg members being normally spaced apart from their converging faces to their junction with the body of the clothes pin, the space at said junction constituting an opening of a size to receive a clothes-line.

1,916,857. CLOSURE MEMBER AND METHOD OF FORMING AND APPLYING. LLOYD G. COPEMAN, Flint, Mich., assignor to Copeman Laboratories Company, Flint, Mich., a Corporation of Michigan. Filed July 2, 1930. Serial No. 465,388. 10 Claims. (Cl. 215—51.)



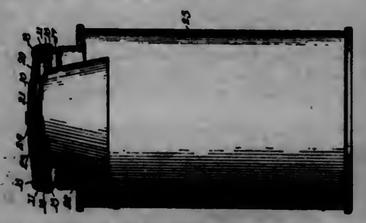
1. A closure member for milk bottles and the like formed of relatively stiff paper having a coating of elastic material around the periphery thereof, said material being deposited from an aqueous dispersion of rubber.

1,916,858. MILLING MACHINE. THEODORE EARLE, Denver, Colo. Filed Oct. 19, 1929. Serial No. 400,925. 8 Claims. (Cl. 209—6.)



1. In a rubbing device for rubbing the adhered constituents of a material from its harder constituents, a stationary member having a longitudinally extending smooth substantially semi-cylindrical surface, a rotatable shaft mounted substantially centrally to said semi-cylindrical surface of the stationary member and provided with arms securely mounted thereon, rubber faced mullers adapted to contact with said semi-cylindrical surface as the shaft revolves and means carried by said arms to mount the mullers and to hold each of them in resilient contact with the semi-cylindrical surface of said stationary member, during substantially half of each revolution of said shaft.

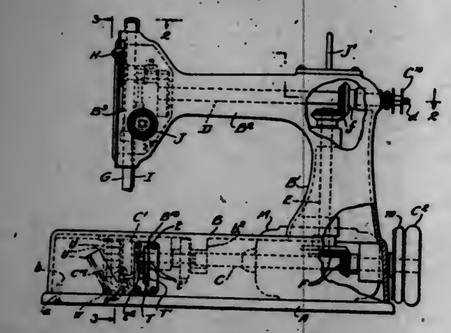
1,916,859. CONTAINER. BENJAMIN HELLER, Chicago, Ill., assignor to B. Heller & Company, Chicago, Ill., a Corporation of Illinois. Filed May 15, 1930. Serial No. 452,529. 2 Claims. (Cl. 220—23.)



1. In a container of the character described the combination comprising a metallic snap closure having a flexi-

ble top adapted to flex substantially to permit application and removal of the top, an accessory receptacle carried on the under face of said closure, and means connecting said receptacle with the flexible top of said closure adjacent its center and contacting therewith in a relatively small area, said receptacle being spaced from said closure top around the region of connection to allow the top freedom to flex.

1,916,860. SEWING MACHINE. RICHARD K. HOHMANN, Brooklyn, N. Y., assignor to Frederick Osann Company, New York, N. Y., a Corporation of New York. Filed Dec. 24, 1927. Serial No. 242,868. 7 Claims. (Cl. 112—220.)



1. A portable sewing machine, comprising a frame casting including a chambered bed portion open at its underside, a completely operative work feeding and stitch forming mechanism mounted in said frame, a base member on which said bed portion rests and to which it is detachably secured, a motor mounted on said base member and extending into the chamber space in said bed portion, a sewing machine drive shaft journalled in said bed portion, and means connecting the motor shaft to said drive shaft.

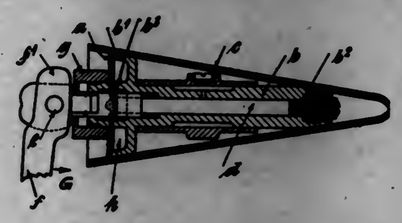
1,916,861. WATER STORAGE HEATER. LEE P. HYNES and HARRY A. WILLIAMS, Albany, N. Y., assignors to Hynes & Cox Electric Corporation, Albany, N. Y., a Corporation of New York. Filed June 28, 1928. Serial No. 288,943. 3 Claims. (Cl. 219—38.)



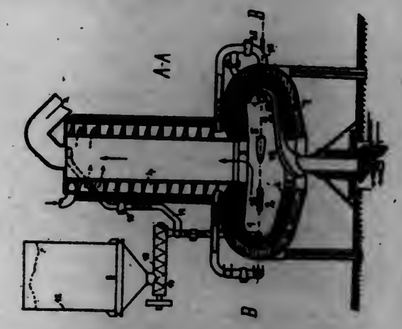
1. A hot-water storage tank provided with a long-time heater at the bottom and a short-time heater at the top, each heater being immersed in a separate vertical water-column isolated from the main body of water but communicating therewith at top and bottom.

1,916,862. TUBE HOLDER. GRINDROD KERSHAW, Whitworth, Rochdale, England. Filed Dec. 20, 1928, Serial No. 327,377, and in Great Britain Dec. 21, 1927. 8 Claims. (Cl. 242—130.)

1. A tube holder comprising a spindle, a dished resilient metal plate thereon, relatively fixed and axially movable collars on the spindle, said collars engaging the plate upon opposite sides thereof and at different distances from its center, and means for actuating the movable collar to cause the periphery of the plate to engage and release the tube.

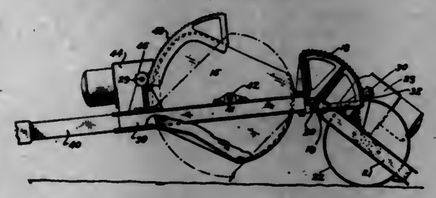


1,916,863. METHOD AND APPARATUS FOR AGGLOMERATING METALLIFEROUS MASSES. ADOLPHE VICTOR KROLL, Luxemburg, Luxemburg. Filed Jan. 30, 1930, Serial No. 424,699, and in Germany Feb. 9, 1929. 8 Claims. (Cl. 75—65.)



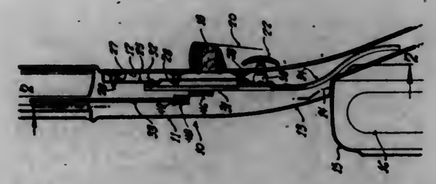
1. The process of agglomerating metalliferous masses, divided to parts of a small size, consisting in exposing the divided, solid mass, to the influence of a gaseous medium and simultaneously to centrifugal forces, by creating whirls with said mass and gases, in a suitable furnace-room, heating the whirling mass, by burning combustible matters, so as to agglomerate at least a part of it by sintering, separating the waste gases from a great part of the dust and of the agglomerated product by centrifugal action, and removing the said product out of the furnace, substantially as described.

1,916,864. SCRAPER. EARL B. MALOON, Oakland, Calif., assignor, by direct and mesne assignments, to Pacific Tractor Equipment Inc., Oakland, Calif., a Corporation of California. Filed May 20, 1931. Serial No. 538,763. 5 Claims. (Cl. 37—129.)



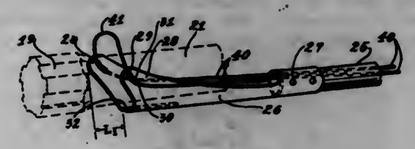
1. A scraper of the character described comprising a frame including a drawbar by means of which it may be connected to a tractor, a wheeled carriage pivotally connected at its forward end to the rearmost end of said frame for swinging movement in a vertical plane, a scraper bowl rotatably supported on the frame, electrically operated means for swinging the carriage in a vertical plane relative to the frame for raising and lowering the latter, and electrically operated means for revolving the bowl.

1,916,865. WINDOW REGULATOR. STANLEY W. NICHOLSON, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Oct. 5, 1931. Serial No. 566,973. 5 Claims. (Cl. 268—132.)



1. In a device to raise and lower a window, a channel member having a portion thereof curved and having an inturned edge on one leg thereof extending substantially throughout the length of said channel, an inturned edge on the opposite leg of said channel extending throughout the curved portion thereof, a flexible and resilient rack bar approximately the width of said channel and operating therein and having its minimum radius of gyration in a direction radially of said curves, means connecting the upper portion of said rack bar to a window pane whereby movement of the rack bar causes corresponding movement of the pane, and a pinion engageable with said rack bar to effect movement thereof.

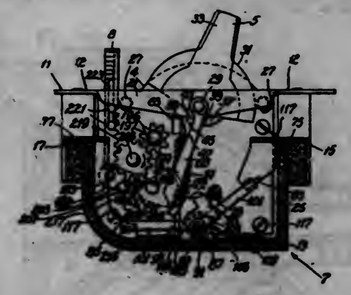
1,916,866. AXLE PULLER. IRVING J. PORTER, DONALD A. PORTER, and FRED ALLEN PORTER, Cortland, N. Y. Filed July 1, 1932. Serial No. 620,464. 9 Claims. (Cl. 294—100.)



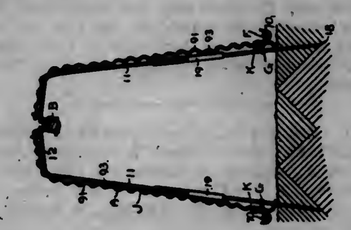
1. In a tool for axle repair purposes, said tool comprising a reach rod having an axle gripping member disposed at one end region of the rod and which member includes a pair of adjustably spaced clamping jaws respectively equipped with eye means and which jaws are interconnected by yoke means arranged to seat upon and partially encircle the gripped axle, a remote manipulative control associated with said rod, and snare strand means threaded through said eyes to constitute a solitary loop hitch extending between said eyes and serving to complete the encirclement of the gripped axle, the loop hitch extremities being operatively interconnected with said control.

1,916,867. SWITCH. MARCUS H. RHODES, New Haven, Conn., assignor to M. H. Rhodes, Inc., New Haven, Conn., a Corporation of Delaware. Filed Jan. 24, 1931. Serial No. 510,905. 18 Claims. (Cl. 200—39.)

2. In a time-delayed switch, means for controlling the time of making and breaking contacts comprising a time escapement mechanism and at least two latches controlled by said escapement mechanism, and means for independently adjusting said latches, said adjusting means also being adapted to remove said latches from operative position, whereby said switch is conditioned for non-time delay operation, and will remain indefinitely at rest in either circuit-making or circuit-breaking position.

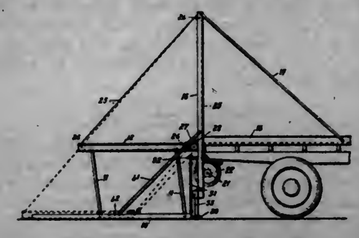


1,916,868. PROTECTOR AND SUPPORTER FOR PLANTS. ZESTON STARKS, Malvern, Ohio. Filed Jan. 20, 1932. Serial No. 587,813. 7 Claims. (Cl. 47—44.)



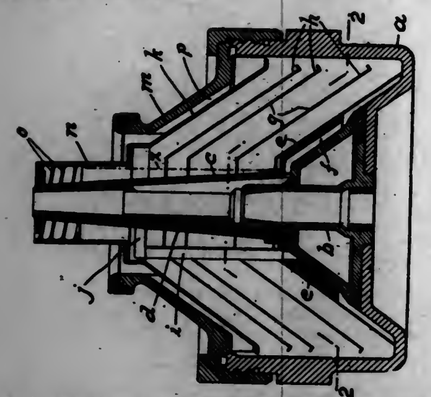
1. As an article of manufacture, a trellis support comprising a single length of wire bent to form a leg portion, a substantially laterally projecting extension therefrom, and a U-shaped ridge pole receiving socket in the extension substantially midway the ends thereof, said socket opening upwardly with its axis substantially vertical and having a normally restricted mouth.

1,916,869. LOADING PLATFORM OR LIKE ATTACHMENT FOR VEHICLES. ALASTAIR CAMPBELL STEWART, Crianlarich, and JAMES CAMPBELL, Doune, Scotland. Filed Nov. 16, 1931, Serial No. 575,834, and in Great Britain Nov. 18, 1930. 14 Claims. (Cl. 214—75.)



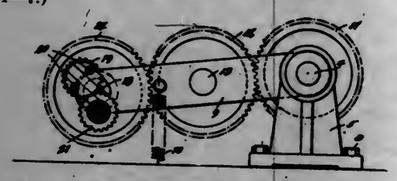
1. In combination with or for attachment to a veihcle, a loading device comprising a load-supporting frame or platform, means for hingedly attaching it to the vehicle, a foundation frame, parallel motion mechanism connecting said frames, and winch mechanism for swinging the load supporting frame or platform about its hinged connection to the vehicle.

1,916,870. CENTRIFUGAL BOWL. GEORGE J. STRZYNSKI, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed June 25, 1931. Serial No. 546,756. 9 Claims. (Cl. 233—29.)



1. A centrifuge comprising a bowl, a central tubular feed shaft, discs whose inner edges are spaced a substantial distance from the fee dshaft and whose outer edges are spaced from the bowl wall, and disc-guiding devices extending substantially parallel to the axis of the feed shaft and spaced from the feed shaft so as to provide a substantially unobstructed discharge passage for the light constituent.

1,916,871. MECHANICAL MOVEMENT FOR INTERMITTENT MOTION. GEORGE W. SWIFT, Jr., Bordentown, N. J., assignor to George W. Swift, Jr., Inc., Bordentown, N. J., a Corporation of New Jersey. Filed June 6, 1931. Serial No. 542,505. 8 Claims. (Cl. 74—7.)



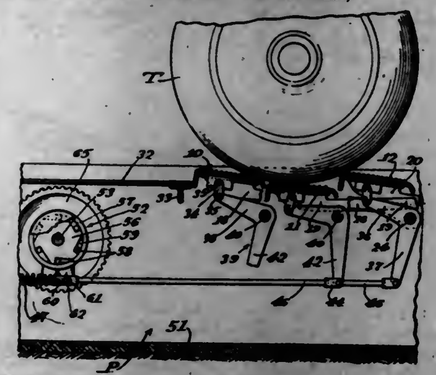
1. In a mechanical movement for intermittent motion, the combination of a main drive shaft rotatable on a fixed axis, an arm oscillatable on said main drive shaft, a stub shaft journaled in the outer end of said oscillatable arm and projecting on opposite sides thereof gearing connections between one end of said stub shaft and said main drive shaft, a radial arm mounted on the other end of said stub shaft, a driven shaft rotatable on a fixed axis, a gear keyed to said driven shaft, and another gear mounted on said radial arm with its axis offset from the axis of said stub shaft and continuously in mesh with said driven shaft gear.

1,916,872. STARCH CONVERSION PRODUCT AND PROCESS OF MAKING SAME. JOHN WACHMAN and GEORGE B. SIPPEL, Cincinnati, Ohio, assignors, by mesne assignments, to Standard Brands Incorporated, New York, N. Y., a Corporation of Delaware. Filed Apr. 30, 1931. Serial No. 534,132. 14 Claims. (Cl. 127—32.)

1. As a new article of manufacture, a substantially completely water-soluble starch conversion product, composed largely of amylo-dextrin, and containing a small amount of maltose.

4. A process of manufacturing a substantially completely water-soluble starch conversion product, which includes dextrinizing starch with a mineral acid until it gives a blue to blue-purple color reaction with iodine, and thereafter diastatically converting said dextrinized starch until it gives a brown color reaction with iodine.

1,916,873. APPARATUS FOR CONVERTING INERTIA OF MOVING VEHICLES INTO POWER. EARL B. WIGGINS, Los Angeles, Calif. Filed Apr. 13, 1931. Serial No. 529,758. 2 Claims. (Cl. 185—39.)



2. An apparatus of the character described comprising a plurality of shafts, a pair of arms pivotally mounted on each of said shafts, a plate connected to the outer ends of each pair of said arms, said plates being arranged in a row with their faces disposed in an inclined plane, quadrants pivotally mounted on said shafts, a second shaft, a plurality of ratchets including disks secured to said second shaft and slip rings engaging the disks, links connecting one arm of each of said quadrants to said plates, links connecting the other arm of said quadrants to the slip ring of said ratchets, a power take-off shaft, and multiple gearing arranged between said second shaft and power take-off shaft.

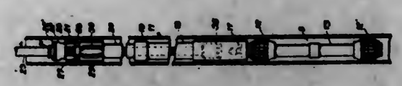
1,916,874. FRAZING TOOL. JOHN H. WILHELM, Rockaway Beach, N. Y., assignor, by mesne assignments, to Margon Corporation, New York, N. Y., a Corporation of New York. Filed June 25, 1928. Serial No. 288,024. 11 Claims. (Cl. 29—103.)



10. A frazing tool for cutting eye sockets in dolls' heads comprising a substantially hemispherical metallic shell having an elongated portion extending along a line intermediate the apex or pole and the base or equator cut out and removed, the outer periphery or base or equatorial portion of said hemispherical shell being left complete and intact, one of the edges bounding said cut-out portion constituting a cutting edge and being displaced radially outwardly relatively to the opposite edge bounding said cut-out portion, the cut-out portion being large and forming an unobstructed space for the rapid passage of the chips and shavings cut by the tool.

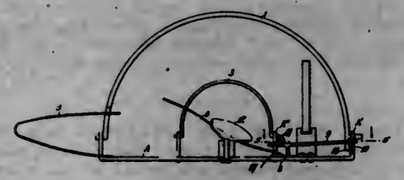
1,916,875. COMBINATION WELL CLEANER AND PUMP. HAROLD C. YARBROUGH, Brea, Calif., assignor to Yowell & Yarbrough, Inc., Los Angeles, Calif., a Corporation of California. Filed Feb. 12, 1932. Serial No. 592,576. 20 Claims. (Cl. 166—20.)

1. An apparatus for cleaning perforated pipe and the like embodying: packing means adapted to be inserted in said pipe and to form a confined space of limited proportions therein; means including a conduit for applying



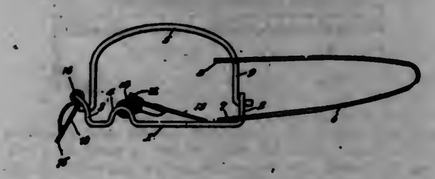
suction to said confined space; and a by-pass conduit interposed between said packing means and opening into said pipe outside of said confined space.

1,916,876. SELECTIVE DOUBLE JAW TRAP. JOSEPH D. ZAHM, Lititz, Pa., assignor to Animal Trap Company of America, Lititz, Pa., a Corporation of Pennsylvania. Filed May 22, 1929. Serial No. 364,959. 8 Claims. (Cl. 43—88.)



1. An animal trap comprising a set of small jaws, a set of large jaws, a spring for said small jaws and a releasable tension lever for said spring releasable by said large jaws.

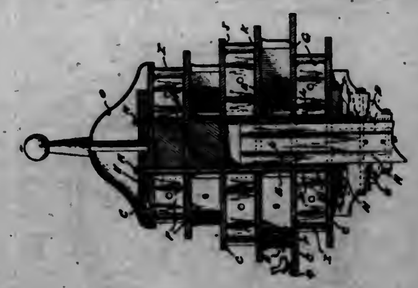
1,916,877. ANIMAL TRAP. JOSEPH D. ZAHM and JOHN U. LEHN, Lititz, Pa., assignors to Animal Trap Company of America, Lititz, Pa., a Corporation of Pennsylvania. Filed Apr. 16, 1931. Serial No. 530,480. 3 Claims. (Cl. 43—92.)



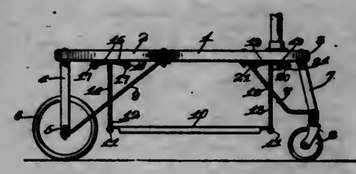
1. An animal trap comprising a base member, upturned perforate lugs at opposite ends thereof, one of which is bent outwardly, jaws pivoted in said upturned lugs, a spring to close said jaws, a latch and a solid cam shaped detent of dished formation to engage said latch and to cooperate with said jaws and having thereon a downwardly curled eye which is received in an opening in said outwardly bent lug to pivotally connect said detent to said lug.

1,916,878. BIRD HOUSE. WILLIAM F. ANKLAM, Detroit, Mich. Filed Feb. 15, 1932. Serial No. 593,165. 3 Claims. (Cl. 119—23.)

1. A bird house comprising a series of tiers each including a base member, a hub member centrally above the same and provided with vertically extending grooves in its peripheral surface, a series of radial partitions having their inner ends engaging said grooves in said hub member, an annular wall surrounding the outer ends of said partitions and apertured for access to the compartments therebetween, and posts outside of said annular wall in alignment with said partitions being provided with tenons at their opposite ends for engaging registering apertures in the base members and one or more clamping bolts extending through said hubs for holding the entire series in assembled relation.



1,916,879. WHEEL TOY. ANTON CHLOSTA, Sheboygan, Wis., assignor to Garton Toy Company, Sheboygan, Wis. Filed May 14, 1931. Serial No. 537,334. 4 Claims. (Cl. 208—165.)



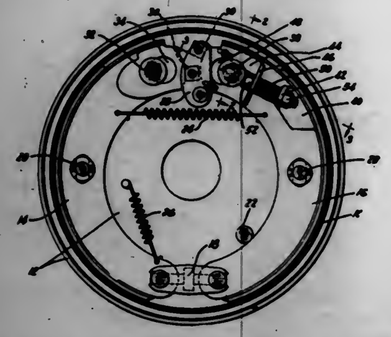
1. A wheel toy including a seatboard and a footboard, front and rear hangers for the footboard, the ends of each hanger being disposed in opposite directions and detachably connected to the seatboard to secure the footboard against transverse and longitudinal movement relative to the seatboard.

1,916,880. COMPOSITING PYROXYLIN. FORD C. CLOSE, New York, N. Y. Filed July 13, 1931. Serial No. 550,363. 14 Claims. (Cl. 41—21.)



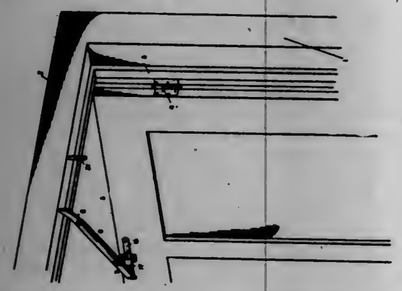
4. The method of compositing pyroxylin, which involves spreading a color-body over a pyroxylin sheet and preliminarily attaching said color-body to said sheet by the aid of heat and pressure, thereby to insure that the color-body in dried condition will be sufficiently secured to said pyroxylin sheet to preclude relative shift of the color-body parts in the plane of the color-body in response to movements of a jellified pyroxylin stratum extended facewisely of the color-body in direct abutment thereagainst, thereafter incorporating jellified pyroxylin material as such a stratum as an incident to the application of a second pyroxylin sheet to said color-body, and applying heat and pressure simultaneously to all the elements aforesaid, such pressure being exerted transversely of said stratum to an extent sufficient to cause parts of said stratum to tend to have such movements, thereby to bond the color-body to both pyroxylin sheets by interpenetrations of parts of said color-body and the pyroxylin material of both sheets without deleterious damage to said color-body as a decorative adjunct to be finally viewed through one of said pyroxylin sheets.

1,916,881. BRAKE. ADIEL Y. DODGE, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois. Filed Oct. 15, 1930. Serial No. 488,743. 18 Claims. (Cl. 188—78.)
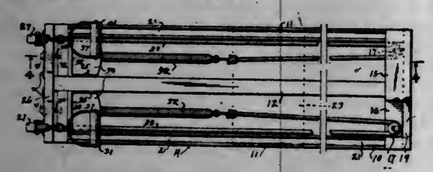


1. A brake comprising a drum and friction means having one anchorage when the drum is turning in one direction and another anchorage when the drum is turning in the other direction, at least one of said anchorages being yieldable, and said anchorages acting on different parts of the friction means.

1,916,882. COLLAPSIBLE STRUT. CURTIS GREENE, San Francisco, Calif. Filed Mar. 24, 1931. Serial No. 524,785. 5 Claims. (Cl. 16—82.)



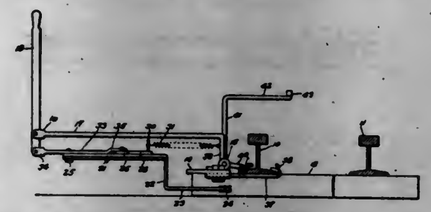
1. In combination with a stationary member having a swing member hinged thereto, an elongated strip of spring material curved transversely to the longitudinal axis pivoted to said stationary member; a resilient bracket fixed to said swing member and pivotally engaging said strip and a detent on said swing member engaging said bracket.

1,916,883. ROWING MACHINE. A. DE VERE HARNETT, Racine, Wis. Filed Jan. 21, 1932. Serial No. 587,891. 11 Claims. (Cl. 272—72.)



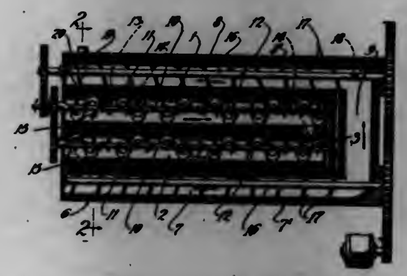
1. An exercising machine of the rowing type comprising a horizontally disposed body frame, a seat for the frame, sliding foot-pedals carried by the frame, hand-pulls associated with the frame, and springs connected respectively to the hand-pulls and foot-pedals.

1,916,884. RAILWAY TIE EXTRACTING DEVICE. ANTON JAKOB, Gary, Ind. Filed June 23, 1932. Serial No. 618,954. 4 Claims. (Cl. 254—44.)



1. In a structure of the class described, in combination, a rail, a tie located beneath the rail, a supporting plate resting on the protruding end of the tie, adjustable clamping members connected with said plate and adapted for releasable connection with a base flange of the rail, additional foot actuated clamping means carried by said plate cooperable with the remaining flange of the rail, an arm attached to and extending out from the intermediate portion of the plate, a tie engaging and withdrawing tool, a lever pivotally mounted on the outer end of said arm having operating connection with said tool.

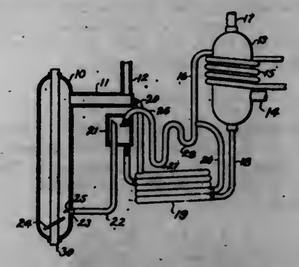
1,916,885. PROCESS AND APPARATUS FOR PRODUCING EMULSIONS. LESTER KIRSCHBRAUN, Leonia, N. J., assignor, by mesne assignments, to The Flintkote Corporation, Boston, Mass., a Corporation of Massachusetts. Continuation of application Serial No. 346,872, filed Mar. 14, 1929. This application filed Dec. 20, 1930. Serial No. 503,850. 11 Claims. (Cl. 259—104.)



1. A process which comprises mixing and agitating water-immiscible material with water to produce a dispersion in which the water-immiscible material constitutes the internal phase and the water the external phase, subjecting said dispersion to a more intense agitating action, and thereafter combining regulated portions of finished emulsion with the materials being mixed and agitated in the initial dispersing stage.

1,916,886. ABSORPTION TYPE REFRIGERATING APPARATUS. PETER KÖHLER, Stockholm, Sweden, assignor, by mesne assignments, to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 20, 1931, Serial No. 531,436, and in Germany Aug. 25, 1930. Renewed July 2, 1932. 14 Claims. (Cl. 62—119.5.)

1. In absorption refrigerating apparatus of the pressure equalised type, means for circulating absorption liquid between the generator and absorber comprising a fluid tight vessel located below the generator liquid level, a pipe connected below the liquid level to the generator and extending into said vessel terminating near the top thereof, a valve pipe connected at one end to the absorber and terminating at its other end in a siphon which extends into said vessel below the opening of the first said pipe, said valve pipe being formed with two U-bends below the generator liquid level, and a pipe connecting



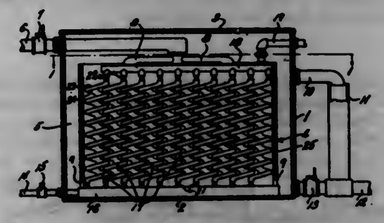
the lower part of said vessel to the rising part of said valve pipe adjacent the absorber at a level above the opening of said siphon in said vessel.

1,916,887. DUMMY JOINT CUTTER FOR CONCRETE PAVEMENTS. WILLIAM THOMAS MCCLAIN, Los Angeles, Calif. Filed Apr. 23, 1930. Serial No. 446,570. 3 Claims. (Cl. 94—39.)



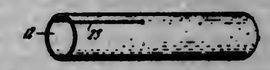
1. In an apparatus for cutting grooves in a road surface, the combination of: a frame comprising a pair of horizontal bars adapted for contact with said surface in spaced relation to a selected line; a cutting member associated with said frame; rollers on said cutting member adapted for movement on said bars for supporting said cutting member; and guide rollers on said cutting member operable in the space between said bars, said guide rollers contacting with said surface to equalize the pressure on said surface during the grooving operation.

1,916,888. HEAT RECLAIMER. CLIFTON S. MALOTT, Jr., Cincinnati, Ohio, assignor to American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 3, 1932. Serial No. 631,663. 3 Claims. (Cl. 257—205.)



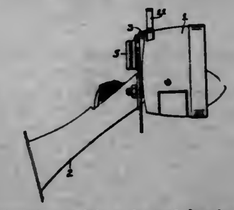
1. A heat reclaimer of the character described, comprising a series of hollow generally spiral container members each having a more or less thin and generally spiral vane and being formed to avoid a direct open channel along the central axes, said containers being mounted in parallel relation with their vanes interlocked with each other, means for causing parallel flow of water to be heated through said containers in one direction, and means for causing flow of heating water in the opposite direction along the outside of said containers.

1,916,889. PENCIL SHARPENER. HERBERT A. MOULTON and EVELYN L. MOULTON, Plymouth, N. H. Filed Nov. 5, 1932. Serial No. 641,429. 1 Claim. (Cl. 120—87.)



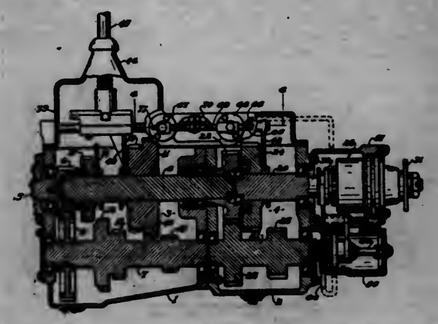
As an article of manufacture, a two-piece pencil sharpener composed of a seamless sheet metal tube having cylindrical end portions constituting sockets in axial alignment with each other, and an intermediate portion having a deformation constituting a hollow knife-holding rib projecting outward from one side of the axis of the tube, said rib including flat parallel sides tangentially and obliquely arranged relative to the tube axis, a longitudinal neck portion connecting the outer portions of the rib sides and inclined relative to said axis, and a transverse neck portion substantially at right angles with the tube axis, said tube and rib being integral with each other, and a substantially triangular sharpening knife having a back edge seated on the longitudinal neck portion, a relatively wide end edge seated on the transverse neck portion, flat sides bearing on the sides of the rib, and a cutting edge projecting from the rib into the intermediate portion of the tube, the portion of the tube having said rib being inexpansible.

1,916,890. EMERGENCY KEY HOLDER FOR AUTOMOBILES. OSCAR E. NEWBAUER, Rochester, N. Y. Filed Dec. 29, 1932. Serial No. 649,362. 10 Claims. (Cl. 70—14.)



1. The combination with a barrel having a recess and a permutation locking member movable into said recess, of a key carrier positionable in said recess and adapted to be retained by said locking member, said key carrier being removable from the recess and including a key holding portion entirely housed within the barrel when locked.

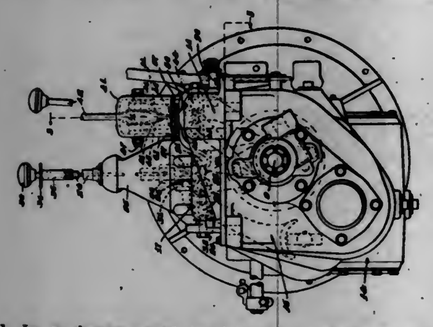
1,916,891. TRANSMISSION GEARING WITH REAR CLUTCH. JOSEPH E. PADGETT, Toledo, Ohio, assignor to Spicer Manufacturing Corporation, Toledo, Ohio, a Corporation. Filed Dec. 23, 1931. Serial No. 582,812. 8 Claims. (Cl. 74—58.)



2. In a transmission gearing having a normally engaged rear clutch, a gear shifting lever operable from neutral

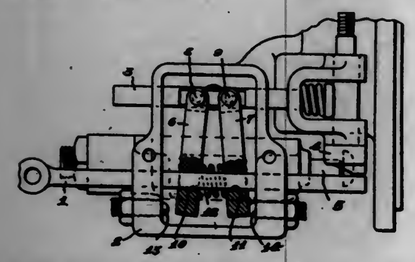
to effect different gear changes, power means for operating the clutch including a vacuum operated motor having a movable member connected to the clutch to shift the same, a conduit system connecting the motor and a source of vacuum, a normally closed valve in said conduit system, and means operated by the gear shifting lever for opening said valve when the gear shifting lever is moved to neutral position and to close said valve when the gear shifting lever is moved out of neutral position.

1,916,892. GEAR SHIFTING MECHANISM FOR AUXILIARY GEAR SETS OF CHANGE SPEED TRANSMISSION GEARING. CARL D. PETERSON, Toledo, Ohio, assignor to Spicer Manufacturing Corporation, Toledo, Ohio, a Corporation of Virginia. Filed Mar. 12, 1932. Serial No. 598,436. 10 Claims. (Cl. 74—39.)



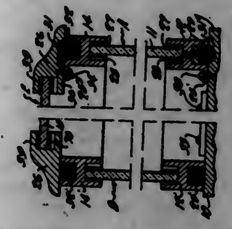
1. In a change speed gearing, the combination of a main gear set, an auxiliary gear set, and a housing, in which they are mounted, including a main gear box, and an auxiliary box detachably mounted on the main gear box, said gear sets including shiftable elements, means for shifting said elements including shift rods, a selecting and gear shifting lever for operating the shift rods of the main gear set, an auxiliary gear shifting lever for operating the shift rods of the auxiliary set, covers for the gear boxes in which the shift rods for the sets are mounted respectively, the cover for the main gear set including a tower in which the main gear shift rod is mounted, and a second tower in which the auxiliary gear shifting lever is mounted, the second tower being mounted on the cover of the main gear box, motion transmitting connections between the auxiliary shifting lever and the auxiliary shift rod, said connections being supported by the second tower, and means for detachably securing the second tower to the cover.

1,916,893. TWO-WAY CLUTCH DEVICE. CARL D. PETERSON, Toledo, Ohio, assignor to Spicer Manufacturing Corporation, Toledo, Ohio, a Corporation of Virginia. Filed Oct. 12, 1932. Serial No. 637,481. 7 Claims. (Cl. 74—14.)



1. The combination of a sliding actuator rod and a sliding actuated rod, a clutch device connecting the rods comprising a part connected to one rod to move as a unit therewith, and having clutch means normally clutching the other rod to shift therewith, whereby the actuated rod moves as a unit with the actuator rod upon the initial movement of the actuator rod, and means for declutching said part from the latter rod when the actuated rod has been actuated a predetermined distance.

1,916,894. CABINET CONSTRUCTION. WILLIAM R. REX, Ilion, N. Y., assignor to A. N. Russell & Sons Company, Ilion, N. Y., a Corporation of New York. Filed Oct. 15, 1931. Serial No. 568,925. 4 Claims. (Cl. 312—140.)



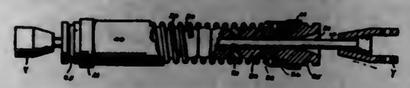
1. In a cabinet of the class described, a horizontal corner joint comprising a frame member having a substantially plane, horizontal surface formed with an elongate recess therein, a panel margin piece having spaced flanges abutting said plane surface at opposite sides of the recess, said flanges defining a channel opening toward said frame recess and cooperating therewith to provide an elongate chamber for the reception of packing material, compressible packing in said chamber, and means for fastening the margin piece to the frame member to compress said packing in said chamber.

1,916,895. WINDSHIELD HEATER. FRED H. ROWE, Gloucester, Mass. Filed July 1, 1929. Serial No. 375,111. 1 Claim. (Cl. 219—19.)



A windshield heater comprising in combination two oppositely bevelled glass plates separated by an electrical heater unit, a frame adapted to partly overlap the bevelled portions of said glass plates and support and hold said plates and heater unit, and brackets adapted to attach said frame to a windshield.

1,916,896. FLEXIBLE CONDUIT. JOHN SNEED, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 21, 1928. Serial No. 263,544. 9 Claims. (Cl. 74—39.)



1. A flexible force transmitting device comprising a cable and a flexible conduit comprising alternate balls and spools each having central apertures generally aligned with adjacent units for the reception of the cable passing therethrough and offering substantially continuous support therefor, and normally distended resilient means secured to the ends of the conduit and compressing the several units into contact with each other and laterally engaging and supporting all of the said units.

1,916,897. BEARING FOR SANDING MACHINES. PETER A. SOLEM, Rockford, Ill. Original application filed Oct. 16, 1925, Serial No. 62,694. Divided and this application filed Dec. 26, 1929. Serial No. 416,523. 14 Claims. (Cl. 308—189.)



1. In a machine of the character described, a rotating shaft having means for communicating reciprocatory movement thereto, and means for supporting said shaft for combined rotation and reciprocation comprising an outer anti-friction race member received in a bearing for said shaft, an inner antifriction race member, anti-friction rolling elements between said race members, a bearing sleeve on said shaft reciprocable in said inner race member, means providing a shoulder for an abutment at one end of said sleeve whereby said sleeve is movable endwise with said shaft in the reciprocation thereof, a spacing sleeve engaging the other end of said bearing sleeve, and means forming a shoulder to provide an abutment for the free end of said spacing sleeve whereby the latter moves with said bearing sleeve in the reciprocation of said shaft, said spacing sleeve and said bearing sleeve being of equal diameters to afford interchangeability thereof.

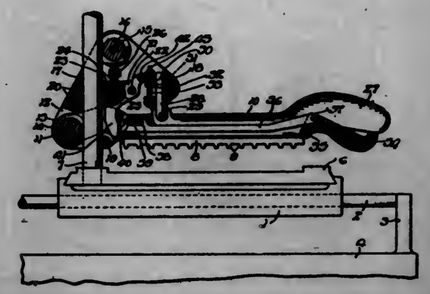
1,916,898. CURTAIN. HERBERT THORNE, Boston, Mass., assignor to Modern Curtain Co., Inc., Boston, Mass., a Corporation of Massachusetts. Filed June 25, 1932. Serial No. 619,271. 6 Claims. (Cl. 156—10.)



1. A curtain having a body portion and a ruffle each having a multi-ply hem, means uniting the hems of the body portion and ruffle, and a substantially straight band of material superposed upon the junction of the body portion and ruffle, said band being regularly tucked to increase its thickness and opacity.

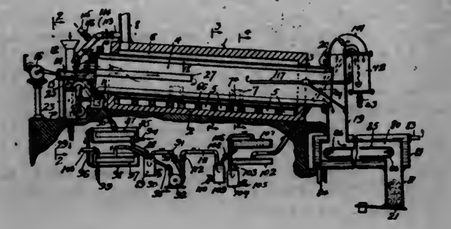
1,916,899. MEAT CLAMP FOR SLICING MACHINES. CORNELIS F. M. VAN BERKEL, Wassenaar, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed June 6, 1929, Serial No. 368,991, and in Great Britain June 12, 1928. 17 Claims. (Cl. 146—216.)

1. In a meat clamp for slicing machines, the combination with a support, of an upright on said support, a member slidable on said upright, a spring pressed pawl for holding said slidable member in adjusted position on said upright, a clamping bar pivoted to said slidable member, a pin connected to said clamping bar, a clutch ring surrounding said pin, and means to urge the edges



of said clutch ring into frictional engagement with the pin to hold said clamping bar in adjusted position relative to said slidable member.

1,916,900. METHOD OF LOW TEMPERATURE DISTILLATION. JAMES N. VANDEGRIFT and CARL POSTEL, New York, N. Y., assignors to International Bitumenoil Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 16, 1928. Serial No. 299,928. 4 Claims. (Cl. 202—20.)

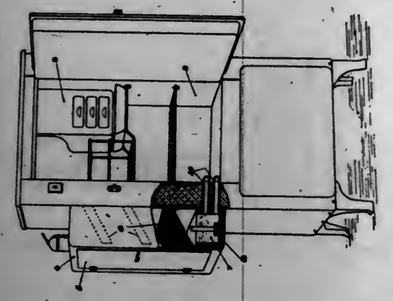


1. A continuous process of distillation of solid carbonaceous materials in an inclined retort which comprises heating the material in a relatively low temperature zone adjacent the feed end of the retort, thereby removing the moisture content therefrom; introducing into said zone a current of air into contact with the material passing therethrough before the material passes to the higher temperature carbonizing zone adjacent the discharge end of the same retort, simultaneously withdrawing adjacent the feed end of the retort by suction the moisture vapors and the air introduced into the feed end of the retort chamber, and separately removing adjacent the discharge end of the retort by suction the higher boiling point volatiles and fixed gases from a higher heat zone of the same retort chamber.

1,916,901 REFRIGERATING SYSTEM AND STRUCTURE THEREFOR. NATHANIEL B. WALES, New York, N. Y., assignor to Vaporedair Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 29, 1932. Serial No. 640,290. 9 Claims. (Cl. 62—104.)

4. A refrigerator for the preservation of vegetables and the like having means to refrigerate a body of water

located in a sump in its base, said refrigerator having open containers for said vegetables therein, an electric motor operated blower positioned in the top of said re-



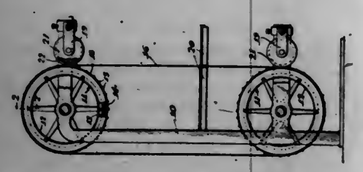
frigerator and means operated by said blower to elevate said refrigerated sump water and atomize and distribute said water over said containers.

1,916,902. ADSORBENT. RALPH C. WILBUR, Brooklyn, N. Y., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed Nov. 19, 1930. Serial No. 496,833. 16 Claims. (Cl. 252—2.)

1. The method of preparing an activated silicious substance which comprises digesting silicious material in a hot alkali carbonate solution, separating undissolved silicious material from the solution while maintaining the solution at an elevated temperature, digesting the undissolved silicious material in a sulfuric acid solution, separating the silicious residue from the solution, and washing and drying the silicious residue.

9. The method of preparing an activated silicious material which comprises digesting silicious material in an alkaline solution, separating undissolved silicious material from the solution, treating the undissolved silicious material for a substantial period of time with a relatively concentrated acid, whereby the silicious material is converted to an active form, and separating acid-soluble substances from the silicious material.

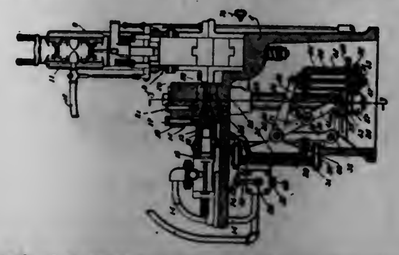
1,916,903. SAFETY BAND SAW. ALBERT WINE, Los Angeles, Calif. Filed Apr. 18, 1932. Serial No. 605,861. 9 Claims. (Cl. 143—17.)



1. The combination with an endless flexible saw blade, of a wheel for supporting said blade and teeth mounted for circumferential movement upon and projecting from the periphery of said wheel for engagement between the teeth of said endless flexible blade.

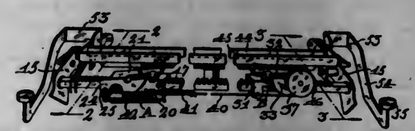
1,916,904. DRILL STEEL SHARPENING MECHANISM. WADE H. WINEMAN, Michigan City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Nov. 20, 1929. Serial No. 408,618. 12 Claims. (Cl. 76—5.)

1. In a forging machine, means for clamping a work piece including a reciprocable clamp actuating member and means for reciprocating said clamp actuating member comprising a motor having a movable force transmitting element, the path of movement of said reciprocable clamp actuating member being angularly related to the path of movement of said element, link means connecting said element and clamp actuating member and pivoted to each of the same, and a tie member oscillatable about a relatively fixed pivot disposed at the same side of



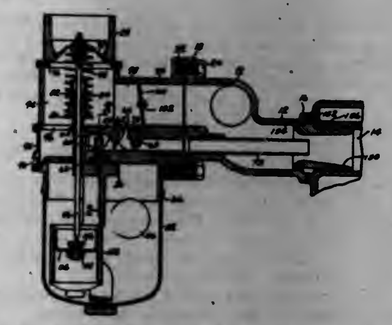
the path of movement of said element as the pivotal connection of said link means with said clamp actuating member, said tie member being pivotally connected directly to said element and placed under tension during clamping, and maintaining a portion of said element at a substantially uniform distance from the fixed pivot.

1,916,905. MARGIN REGULATOR FOR TYPEWRITERS. WILLIAM WOODFINE, Verdun near Montreal, Quebec, Canada. Filed Nov. 21, 1932. Serial No. 643,570. 4 Claims. (Cl. 197—70.)



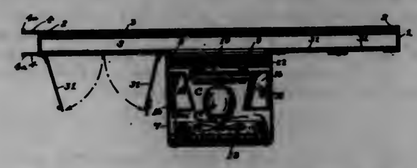
1. In margin regulator mechanism the combination with a typewriter including a movable carriage and a fixed stop post, of a rack bar mounted on the carriage, a pair of stops disposed for longitudinal sliding movement on the rack bar, an oscillatory catch member mounted on each stop, means attached to the stops adapted to releasably adjust the catch members to a stop securing position and tending to slide the stops in one direction on the rack bar, movable trip members operable to trip the catch members and release the margin stops, and operating keys attached to the said trip members whereby the latter may be actuated from a remote position.

1,916,906. CHARGE FORMING DEVICE. FRED E. ASELTINE, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a Corporation of Delaware. Filed June 29, 1929. Serial No. 374,869. 9 Claims. (Cl. 261—45.)



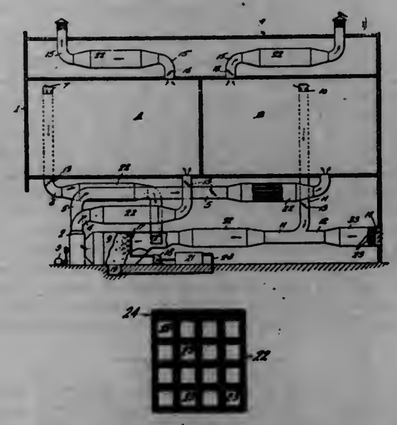
1. A charge forming device for internal combustion engines comprising a plurality of secondary mixing chambers, a plurality of primary mixture passages delivering a primary mixture of fuel and air thereto, a fuel inlet supplying fuel to said primary mixture passages, a primary throttle valve regulating the flow through all of said passages, an air chamber for supplying air to all of said passages and secondary mixing chambers and provided with a main air inlet, means for regulating the mixture proportions comprising an auxiliary air inlet admitting air to said air chamber, and means operated by the primary throttle for regulating the flow of air through said inlet.

1,916,907. VENTILATING AND AIR-CONDITIONING APPARATUS. DON A. SARGENT, Portland, Me. Filed Feb. 15, 1933. Serial No. 656,774. 8 Claims. (Cl. 257—8.)



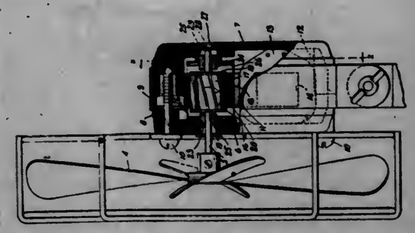
2. A device of the character described comprising a screen-box adapted to be positioned in a window frame beneath the raised lower sash therefor, a screen removably mounted in and adjacent the outdoor side of said screen-box, an air-conditioning box extending from the indoor side of said screen-box, an air-filtering element removably mounted in said air-conditioning box, adjacent said screen-box, a fan wheel in said air-conditioning box, and means to rotate said fan wheel.

1,916,908. SOUND ABSORBING MEANS. ALFRED E. STACEY, Jr., Essex Fells, LEO L. LEWIS, Plainfield, and MILTON S. SMITH, Maplewood, N. J., assignors to Carrier Engineering Corporation, Newark, N. J. Filed June 4, 1929. Serial No. 368,409. 4 Claims. (Cl. 137—160.)



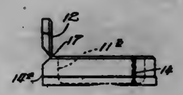
2. An acoustic device for use in ventilating systems, comprising a conduit through which rapidly moving air may be conducted for ventilating purposes, and a plurality of tubes of sound absorbing material disposed side by side, so as to substantially fill said conduit cross-sectionally thereof, and extending endwise in a direction along the walls of said conduit, said tubes being substantially straight and free of baffles in their passages, of material diameter, and being relatively long in proportion to their diameters, whereby any air flowing in said conduit will be subdivided into a plurality of smaller streams all of which pass through said tubes, and any sound waves travelling in the air of said tubes will be silenced.

1,916,909. ALTERNATING CURRENT MOTOR. DUNCAN J. STEWART, Rockford, Ill., assignor to Howard D. Colman, Rockford, Ill. Filed Feb. 9, 1931. Serial No. 514,345. 5 Claims. (Cl. 172—275.)



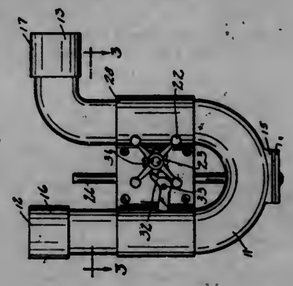
4. An alternating current electric motor having a squirrel cage rotor with a cylindrical iron core, a stator providing poles of a thickness approximating the length of said core, and a thrust bearing acting on the shaft of said rotor to maintain said core offset axially in one direction with respect to said poles.

1,916,910. PROCESS OF MAKING SINKS, WASH-BASINS, AND THE LIKE. JACQUES STANITZ, Warren, Ohio, assignor to The Youngstown Pressed Steel Company, Warren, Ohio, a Corporation of Ohio. Filed Dec. 7, 1932. Serial No. 646,207. 1 Claim. (Cl. 113—120.)



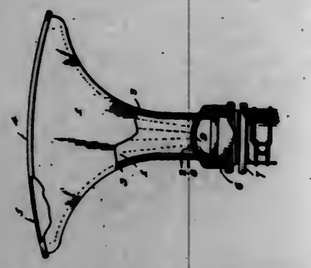
The process of forming sinks, wash basins, and the like, with a splash-back, which consists in drawing down an integral sheet of metal to form the fluid-receiving bowl, leaving at one side sufficient metal to form the back; and bending the back upwardly to a substantially vertical position along a line lying back of the plane of the back wall of the fluid-receiving bowl.

1,916,911. DRAIN TRAP. CHARLES W. ANDERSON, Toledo, Ohio. Filed Jan. 2, 1932. Serial No. 584,430. 5 Claims. (Cl. 137—76.)



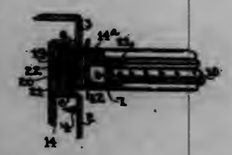
1. In combination, a drain trap body having a drain opening therein, a removable closure for said opening, a bar attached to the closure a rotatable member supported by the body, and gearing including rack teeth on the bar for operatively connecting the member and closure.

1,916,912. SPRAY NOZZLE. CHARLES C. ARMSTRONG, Peoria, Ill., assignor to L. R. Nelson Manufacturing Co., Inc., Peoria, Ill., a Corporation of Illinois. Filed July 30, 1932. Serial No. 626,944. 9 Claims. (Cl. 297—141.)



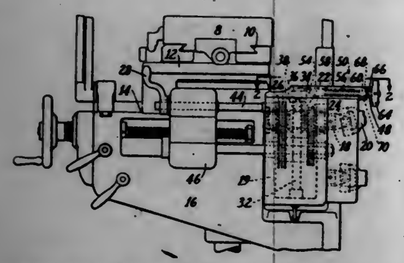
9. A sprinkler nozzle comprising a sprinkler head having a water inlet portion for attachment to a hose and including a neck, said head having a wall opposite the bore of said neck provided with discharge perforations, and a diaphragm within the bore having passages extending therethrough radially with respect to the axis of the bore and directed toward said sprinkler-head for projecting divergent water streams toward said wall.

1,916,913. SHEET METAL SASH CONSTRUCTION. ROY T. AXE, Syracuse, N. Y., assignor, by mesne assignments, to The Syracuse Trust Company, Syracuse, N. Y., a Corporation of New York, Trustee. Filed Apr. 12, 1928, Serial No. 269,436. Renewed June 27, 1932. 9 Claims. (Cl. 189—76.)



1. The combination with a window frame having a window stop, of a sash having a hollow sheet metal member and a wear strip extending lengthwise of said member on one side thereof for coacting with the stop, the wear strip having an angular flange extending away from the sash forming a shield for the crevice between the stop and the wear strip.

1,916,914. CONTROL MECHANISM FOR MACHINE TOOLS. ARTHUR F. BENNETT, West Barrington, R. I., assignor to Brown and Sharpe Manufacturing Company, a Corporation of Rhode Island. Filed July 29, 1931. Serial No. 553,759. 15 Claims. (Cl. 192—82.)

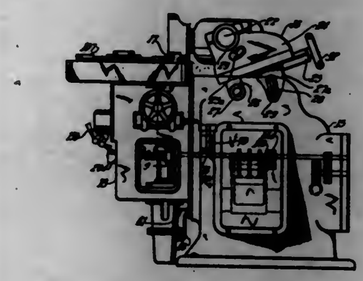


1. A manually operable control mechanism for a machine tool comprising a clutch member arranged to be moved alternatively into an operative and a rest position, a member connected for rotary movement to actuate the clutch, a spring plunger, a cam on said member engaged by the plunger tending yieldingly to turn said rotatable member to disengage and maintain the clutch connected thereto in rest position, and a cam on said member alternatively engaged by the plunger to hold the rotatable member and clutch yieldingly in each of said operating and rest positions.

1,916,915. EDIBLE MEAL AND PROCESS OF PREPARING THE SAME. CLARENCE BIRDSEYE, Gloucester, Mass., assignor, by mesne assignments, to Frosted Foods Company, Inc., Dover, Del., a Corporation of Delaware. Filed Jan. 10, 1929. Serial No. 331,700. 4 Claims. (Cl. 99—11.)

1. An edible meal comprising dry uncooked particles, each individual particle consisting of combined fish substance and milk substance which have been intimately mixed and united with each other in moist condition and then dried so as to form composite particles in which both said substances are united to form a food embodying fish and milk as food components thereof.

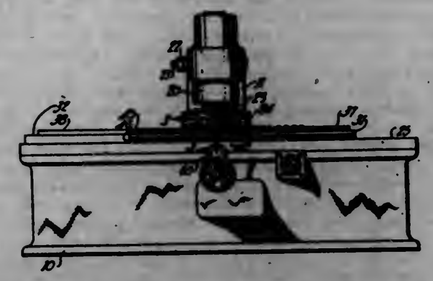
1,916,916. GRINDING MACHINE. CLEMENT BOOTH, Cincinnati, Ohio, assignor, by mesne assignments, to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 31, 1930. Serial No. 440,369. 37 Claims. (Cl. 51—50.)



1. In a device of the class described the combination of a bed, a slide pivotally carried by the bed and having guideways thereon, a carriage on the slide movable relative thereto in an angular direction as determined by the adjustment of the slide, a grinding wheel unit including a grinding wheel and a prime mover pivotally carried by the carriage and adjustable relative thereto whereby the grinding wheel unit may be moved in the angular plane of the carriage with its axis disposed parallel with the bed, and means for adjusting and locking the slide in angular positions relative to the bed including a pivotal connection between the slide and bed, a quadrant depending from the slide and having an elongated opening therein, and means carried by the bed and engaging within the opening for clamping the quadrant in adjusted positions.

1,916,917. GRINDING MACHINE. CLEMENT BOOTH, Cincinnati, Ohio, assignor, by mesne assignments, to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 25, 1930. Serial No. 491,123. 14 Claims. (Cl. 51—129.)

1. In a grinding machine of the class described, the combination of a bed, a grinding wheel carried by the bed, a work receiving trough carried by the bed comprising a fixed side secured to the bed and a movable side spaced from the fixed side forming the work receiving trough therebetween in which the work is disposed in simultaneous engagement with the sides of the trough, means for actuating the movable side and rolling the work on the fixed side relative to the grinding wheel, and additional means in the work receiving trough laterally engaging the work to take the thrust of the grinding wheel, said last



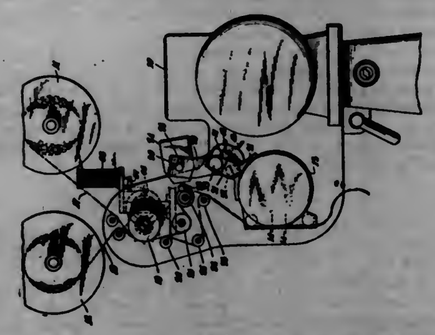
means being movable to maintain engagement between said means and the work as the latter is rolled by the movable side.

1,916,918. CONTAINER FOR WRENCHES AND THE LIKE. ELBERT H. CARROLL, West Boylston, Mass. Filed Mar. 4, 1932. Serial No. 596,785. 3 Claims. (Cl. 206—16.)



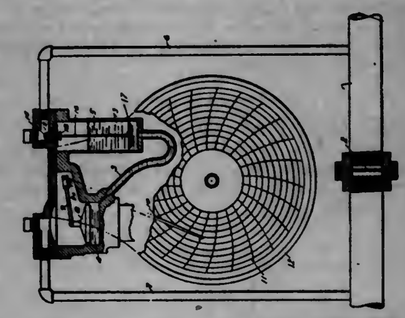
3. A container for tools comprising a tray having an open top and upwardly extending ends, a cover slidably connected to the ends of the tray, said cover having a compartment therein open at least at one end thereof, said cover, when in closed position, preventing access to said tray, and said upwardly extending ends on the tray closing the compartment in the cover.

1,916,919. AUTOMATIC SYNCHRONIZING MECHANISM FOR FILM PRINTING MACHINES. CHARLES DE MOOS, Fort Lee, N. J., assignor to Pathe Exchange, Inc., Bound Brook, N. J., a Corporation of New York. Filed Feb. 9, 1931. Serial No. 514,414. 11 Claims. (Cl. 95—75.)



1. In a device of the kind described, means for printing a positive film from a negative film, said negative film having successive portions of different average densities, a printing light, means for successively varying the intensity of said printing light, means for synchronizing said variations in printing light with said variations in average density, said last mentioned means comprising control means on said film, control means for said light varying means, and means actuated by said film control means adapted to in turn actuate said light control means after a predetermined time interval, said time interval being adjustable as required by the position of said control means on said film.

1,916,920. ORIFICE METER. JOHN C. DIEHL, Erie, Pa., assignor to American Meter Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 18, 1928. Serial No. 313,334. 8 Claims. (Cl. 73—167.)



3. In a differential pressure indicating device, the combination of a U-tube; liquid in the U-tube; pressure pipes leading to the ends of the U-tube; a check valve; a cup-shaped float in the U-tube adapted to hold a liquid when the liquid falls below the level of the float; and means connecting the float to the check valve so that the float will hold the check valve normally open.

1,916,921. THUMB PROTECTOR. ANNA M. DOUGAN, Olathe, Kans. Filed July 30, 1932. Serial No. 626,477. 5 Claims. (Cl. 2—21.)



1. As a new article of manufacture, a protector comprising a hollow body of flexible material; a thickened zone formed on one side of said body; means integral with the body for securing the same in place; and a multiplicity of spherical members embedded within said thickened zone.

1,916,922. REMOVING IODINE FROM DISPERSION IN A LIQUID MEDIUM. HERBERT H. DOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Dec. 20, 1929. Serial No. 415,454. 7 Claims. (Cl. 23—217.)

1. The method of removing free iodine from solution in a liquid which comprises blowing said liquid with air while flowing in relatively thin layers over extended surfaces in a lath tower.

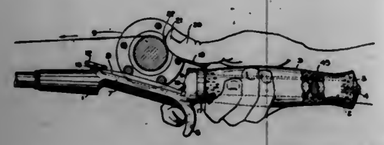
6. In a method of transferring free iodine from a state of dispersion in a liquid to a state of dispersion in a gas, the steps which consist in flowing said liquid in a zig-zag course having a general downward direction through a plurality of superimposed inclined courses, each said inclined course containing a plurality of substantially parallel flow-directing strip-like inclined members

located in general above the spaces between like members in the course next below, and passing said gas in a general upward direction through spaces between said members in contact with said liquid.

1,916,923. PROCESS OF OXIDIZING NAPHTHENES. HENRY O. FORREST, Andover, Mass., and PER K. FROLICH, Elizabeth, N. J., assignors to National Synthetic Corporation, Painesville, Ohio, a Corporation of Delaware. Filed Jan. 31, 1930. Serial No. 424,905. 8 Claims. (Cl. 265—108.)

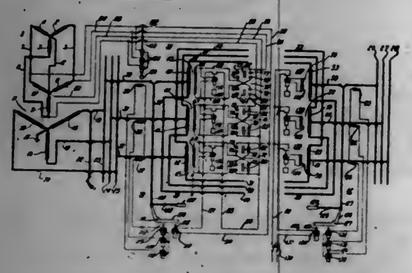
1. A process of directly oxidizing a compound of the group consisting of cyclohexane and related naphthenes, comprising contacting the compound in a liquid body at an elevated temperature with molecular oxygen in a closed system and under a pressure substantially in excess of the vapor pressure of the compound at said temperature, and thereby producing a partial oxidation product of the compound.

1,916,924. FISHING ROD HANDLE. WILLIAM A. FOSS, Cleveland, Ohio, assignor to The American Fork & Hoe Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 7, 1929. Serial No. 405,329. 13 Claims. (Cl. 43—22.)



1. In a casting rod handle adapted to support a line reel, a grip portion adapted to be grasped by the hand of the caster and an upwardly forwardly inclined plane surfaced perch portion on one side of the handle axis upon which surface the caster's thumb may rest in gripping the grip and upon which it may rock to bring the thumb into braking engagement with the reel.

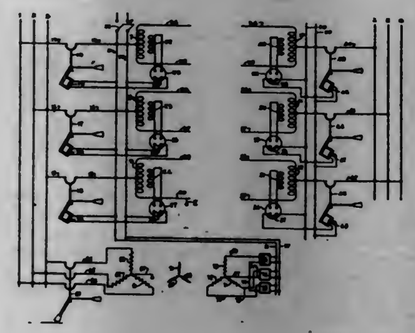
1,916,925. POWER TRANSMISSION SYSTEM. FRAZER W. GAY, Newark, N. J. Filed Sept. 7, 1929. Serial No. 390,899. 9 Claims. (Cl. 171—97.)



1. A transmission system comprising, a sending station bus, a receiving station bus, a plurality of transmission lines having conductors connecting said station busses, a plurality of transformers having winding elements, certain of which winding elements are included in said transmission lines intermediate said station busses, and control means utilizing certain of said transformer winding elements for causing the transformers to reduce the voltage on a faulty line conductor to substantially ground potential.

9. A transmission system comprising, a generator having polyphase windings, a polyphase station bus having bus conductors, a polyphase power transformer having primary windings connected respectively to one of said generator windings and secondary windings connected respectively to one of said bus conductors, said secondary windings having their neutral connection grounded, a pair of polyphase transmission lines, each having a plurality of phase conductors, a plurality of transmission line transformers corresponding in number to the number of phase conductors in each bus, each of said line transformers having a continuous winding with a mid-tap connected to one of said bus phase conductors, the ends of each said winding being connected to a phase conductor of each of said transmission lines, each of said line transformers having an additional low voltage winding, control means comprising selector switches and circuits extending between said selector switches and the primary windings of said power transformer for connecting one of said low voltage windings in multiple with one of the power transformer windings, and time relay means connected across said low voltage windings for effecting the disconnection of said transmission lines from said power station bus.

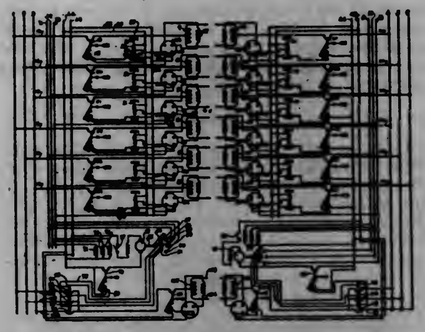
1,916,926. ARCING GROUND SUPPRESSOR. FRAZER W. GAY, Newark, N. J. Filed Dec. 11, 1930. Serial No. 501,608. 5 Claims. (Cl. 175—294.)



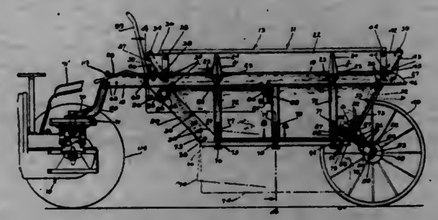
1. In combination in a three phase transmission system fed by a transformer winding having a solidly grounded neutral, a switch arranged on closing to bring one phase of said transmission system to ground potential during a predetermined short interval of time, a conductor connected to said phase through circuit interrupting means, relay means cooperating with said switch and arranged upon the occurrence of a ground on said conductor to maintain said switch in a closed position during a predetermined period of time and relay means operating upon the occurrence of said ground and adapted to cause the tripping of said circuit interrupting means following the expiration of said predetermined period of time.

1,916,927. SWITCHING A SPARE LINE. FRAZER W. GAY, Newark, N. J. Filed Dec. 19, 1930. Serial No. 503,462. 5 Claims. (Cl. 171—97.)

5. In combination, in a transmission system arranged to connect two spaced locations, a plurality of electric transmission wires constituting a power circuit to carry power between said two locations, a spare wire, switches arranged to disconnect any transmission wire from said power circuit, switches adapted, upon the occurrence of a fault on any one of said transmission wires, to connect said spare wire in multiple with said faulty transmission wire, and relay means cooperating with said switches and arranged to cause said switches to first effect the connection of said spare wire in multiple with a faulty transmission wire, and second, to effect the disconnection of said faulty wire from said system.

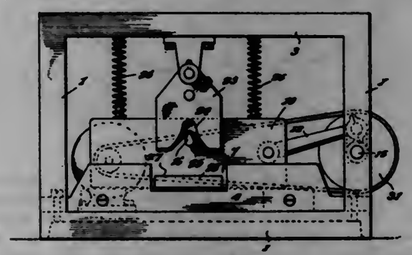


1,916,928. DUMP WAGON. EDWARD R. GREER, Minneapolis, Minn. Filed Mar. 28, 1929. Serial No. 350,551. 8 Claims. (Cl. 298—35.)



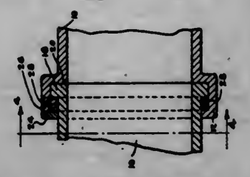
1. A dump wagon comprising a wagon box, means for supporting the forward end portion of said wagon box, corner brackets fitting over the lower, rearward corners of said wagon box, leaf springs secured to said corner brackets, and rear wheels having an axle to which said leaf springs are attached.

1,916,929. SHARPENER FOR HAIR CLIPPER BLADES. EDWARD W. LEE, Jacksonville, Fla., assignor of one-fourth to Wesley Starks, Jacksonville, Fla. Filed Aug. 14, 1929. Serial No. 385,815. 3 Claims. (Cl. 51—158.)



1. A blade sharpener including a sharpening stone, a block thereon recessed in its lower face, guide strips at the sides of the stone and block, one of the strips having a recess, an ejector on the other strip, a blade holder in the recess of the block and displaceable therefrom by the said ejector, means for reciprocating the block, and yieldable means pressing the block on the stone and normally retaining the blade holder in place.

1,916,930. PIPE COUPLING. WILLIAM S. LYNESS, Minneapolis, Minn. Filed June 30, 1932. Serial No. 620,081. 4 Claims. (Cl. 285—111.)

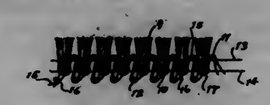


1. In a pipe coupling, a pipe section having a female member at one end and a male member at the other, said female member comprising an outwardly-positioned circumferential flange concentric with the body portion of the pipe section to provide an internal annular seat, said flange being extended for a portion of its circumference and then turned inwardly whereby an arcuate recess is provided which merges into said annular seat, said male member having an outwardly-extending circumferential rib adapted to be slid sidewise through the vacant area in the flange extension of an adjacent pipe section and then to be pushed longitudinally into the annular seat, and means in said recess which secures said rib in said annular seat.

1,916,931. HEAT-TREATMENT OF METALS. SHINTA MATSUNAWA, FUSATOSHI NOZAWA, and MASUHIRO SUZUKI, Tokyo, Japan, assignors to Kabushiki Kaisha Sumitomo Seikosho, Osaka, Japan, a Corporation of Japan. Filed Jan. 16, 1933, Serial No. 652,096, and in Japan Feb. 5, 1932. 2 Claims. (Cl. 148—29.)

1. A process of heat treatment of metals, comprising quenching the heated metals in a cooling medium, comprising an emulsion of water and a mineral oil containing 0.5% to 10% petrolene.

1,916,932. RUG. ANTHONY M. MULDOON, Englishtown, N. J. Filed Nov. 30, 1931. Serial No. 578,021. 5 Claims. (Cl. 139—401.)

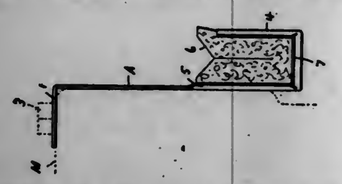


1. A tufted pile rug woven with three shots of weft comprising two series of stuffer warps extending substantially straight through the fabric in parallel planes, the first shot of weft lying between both stuffer warps, the second shot of weft lying above the stuffer warps, the third shot of weft lying below both stuffer warps, a binder warp interwoven about the three shots of weft and passing across and above the first shot, a second binder warp interwoven about the three shots of weft and passing across and below the first shot of weft, and tufts looped about the first shot of weft having bights positioned between the second and third shots of weft whereby said bights are exposed and the same pattern shows both upon the face and back of the rug.

1,916,933. OIL GAUGE WIPER. HENRY A. PECK, Crown Point, N. Y. Filed May 31, 1932. Serial No. 614,531. 1 Claim. (Cl. 15—210.)

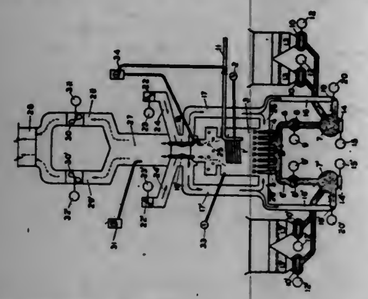
A device of the class described comprising a bracket of substantially U-shape with one limb extended to form sup-

porting means, a folded piece of absorbent material placed in the bracket, the limbs of the U-shaped part and the bight part thereof having inwardly extending flanges,



the flanges of the bight part extending upwardly and outwardly to form lips which are spaced from the absorbent material.

1,916,934. SYSTEM AND METHOD OF REGULATION. ALLEN M. ROSSMAN, Wilmette, Ill., assignor to Rossman, Sargent & Lundy Patents Corporation, Chicago, Ill., a Corporation of Illinois. Filed Aug. 28, 1930. Serial No. 478,521. 29 Claims. (Cl. 236—14.)



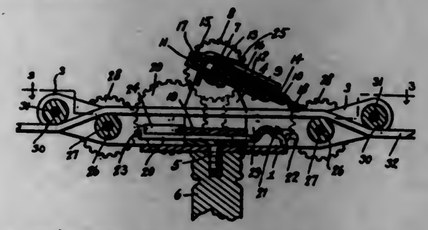
1. In combination, a furnace, means for producing a draft in the furnace, means controlled responsive to the occurrence of an increase or a decrease of the furnace pressure from a predetermined normal for producing a continuous motion tending to bring about a corresponding change in the draft to correct the furnace pressure, means responsive to the occurrence of an increase or a decrease in the heat demand on the furnace from a normal amount for producing a continuous motion tending to bring about a corresponding change in the draft, means actuated in accordance with the instantaneous extent of the two motions for effecting the change in the draft, and means for adjusting the relative extents of the two motions.

1,916,935. VALVE ORGANIZATION FOR PLAYING BALLS AND THE LIKE. OSWALD A. SAVARIA, Chicopee, Mass., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed July 17, 1931. Serial No. 551,477. 10 Claims. (Cl. 273—65.)



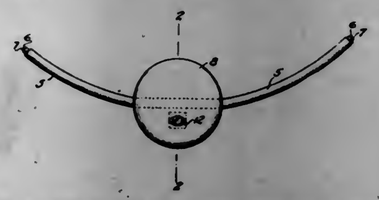
1. An inflatable playing ball having a casing, an inflatable bladder within the same, having a tube attached exterior thereto communicating with the interior of the bladder, said tube having an enlargement, a rubber member of disc form of larger diameter than the enlargement, located between said enlargement and bladder fitting flatwise over the latter and completely surrounding, contacting with and normally constricting said tube so that its opposite wall portions are in contact to close the tube against the escape of air from the bladder, said rubber disc being flexible in a direction radially of the bladder, substantially as described.

1,916,936. COMBINED SAFETY RAZOR AND STROPPER. CHARLEY AUGUST SCHEER, Cedar Rapids, Iowa. Filed Sept. 17, 1930. Serial No. 482,611. 1 Claim. (Cl. 51—218.)



A blade holder of the class described comprising a bracket, a shaft having its end journalled in the bracket, a lower jaw plate having the rear part of the upper face connected with the shaft, an upper jaw plate, means for connecting intermediate portions of the jaw plates together, each jaw plate having a pair of spaced rearwardly extending portions extending beyond the shaft and having arcuate flanges at the rear ends, the flanges of the lower jaw plate extending upwardly and those of the upper jaw plate extending downwardly and overlapping the flanges of the lower jaw plate, a bar of considerable width passing between the two sets of rearwardly extending portions, a spring finger connected with the bar at the central part of its upper edge and said finger being curved adjacent its point of connection with the bar, said curved portion passing between the rearwardly extending portions of the upper jaw plate, said finger resting upon the upper jaw plate and applying pressure thereto when the bar has been turned on edge to move the rearwardly extending portions of the two jaw plates away from each other, to cause the opposite ends of the jaw plates to clamp a blade between them.

1,916,937. SLACK TAKE-UP FOR ELECTRIC CONDUCTOR CORDS. CHARLES SCHLABURG, Akron, Ohio. Filed Dec. 27, 1929. Serial No. 417,010. 2 Claims. (Cl. 24—115.)



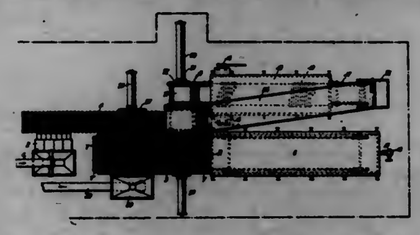
2. In a device of the character described, a spherical body of relatively soft elastic rubber, said body having a bore extending diametrically therethrough and having a radial cut disposed longitudinally of said bore and extending from one side thereof to said bore, the walls of said cut adapted to be forced apart to position the body on a cord, said body having a bore extending therethrough transversely of said cut and a bolt positioned in the last named bore said bolt operable to hold said cut in a closed position.

1,916,938. INTERNAL COMBUSTION ENGINE SUPPLEMENTARY AIR CONTROL. MYRON B. SMALL, Wollaston, Mass. Filed Aug. 12, 1930. Serial No. 474,793. 6 Claims. (Cl. 123—119.)



1. In a combined air and liquid feeding valve for internal combustion motors comprising an elongated shell having means at one end for connection to an intake manifold, a valve seat formed intermediate the length of said shell, a valve for said valve seat and normally maintained in seated engagement with said seat, a plug for the other end of said shell having a small bore, a head within said shell and positioned in advance of and in alinement with said bore and means for introducing a liquid into said bore to engage said head.

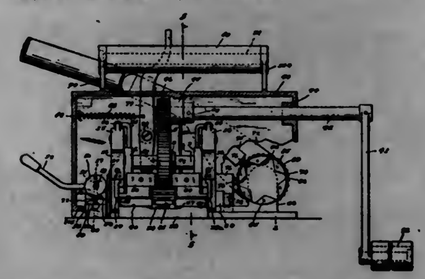
1,916,939. CARBONIZING PROCESS. WALTER EDWIN TRENT, New York, N. Y., assignor to Trent Process Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 31, 1924, Serial No. 759,152. Renewed Feb. 2, 1932. 25 Claims. (Cl. 44—10.)



1. A carbonising process consisting in forming fuel masses of a cylindrical contour, in passing said masses through a distilling zone, in heating the masses during passage through said distilling zone to remove volatiles therefrom, and in rolling said preformed masses during the distillation thereof to maintain the carbonized residue in substantially the same contour and of the same dimensions as the preformed carbonaceous masses.

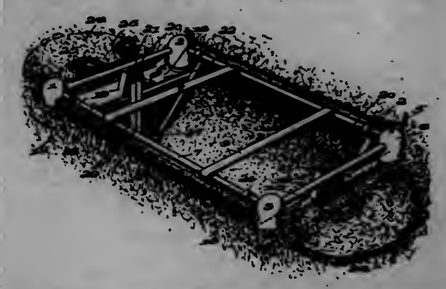
11. The method of preparing fuel which consists in passing a stream of plastic blocks of oil wet fine coal through a chamber in which they are heated and in which they are subjected to an oxidising action.

1,916,940. BOX STRAPPING APPARATUS. EARL D. TUBBS, New York, N. Y. Filed Mar. 5, 1930. Serial No. 433,478. 1 Claim. (Cl. 140—93.)



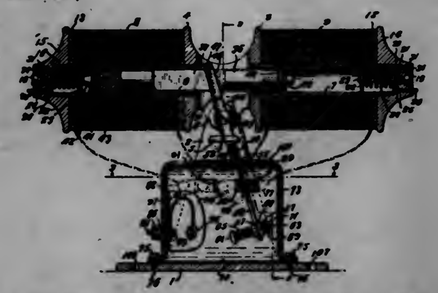
In a device of the character described, mechanism for gripping the end of a wire, means for tensioning the wire including a rotatable star drum adapted to receive the other end of the wire, said means operating to increase the clamping action of said gripping mechanism as the tension is increased, means for twisting the wire, rotative means for operating said twisting means, cutters operable by said rotative means and adapted to sever the free ends of the swisted wire and latch means operated by said gripping mechanism to permit the removal of the wire from the twisting means.

1,916,941. AUTOMATIC GRAVE COVER. SHEPP A. WILLIAMS, Bristol, Va. Filed June 16, 1932. Serial No. 617,507. 7 Claims. (Cl. 27—30.)



1. In a combined lowering and covering mechanism having a plurality of bearing members with shafts rotatable in said bearing members and belts attached to said shafts, a frame adapted to receive said bearing members, a plurality of covers, pivotal mountings for said covers, said covers having a plurality of different radii from said pivotal mountings and means actuating said covers by said shafts.

1,916,942. CIRCUIT BREAKER AND CHANGER. LEONARD KAY WRIGHT, Jackson Heights, N. Y. Filed Jan. 31, 1928. Serial No. 250,774. 3 Claims. (Cl. 200—97.)

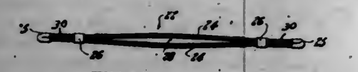


1. An electrical control device comprising a base, a support, solenoids positioned thereon in spaced apart relation, a plunger extending between and within said solenoids, said plunger having cylindrical ends and a cutaway center portion, a rocker arm pivotally mounted upon said support, one end of said arm being forked and engaging the cutaway portion of the plunger, a spring secured to said forked end and to the support, the other end of said rocker arm being provided with a plurality of contacts so that solenoid circuits and a main circuit may be made and broken.

1,916,943. HAIR FORMER. BLANCHE E. BRADLE, Springfield, Mass. Filed Feb. 23, 1932. Serial No. 594,524. 14 Claims. (Cl. 132—38.)

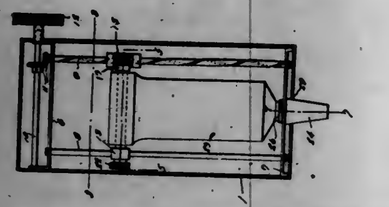
1. A hair forming device of the class described comprising in combination, side members of bendable metal cov-

ered with non-metallic material, a pair of clasps adjustably secured to and intermediate the ends of said side members to form a hair receiving slot therebetween, looped



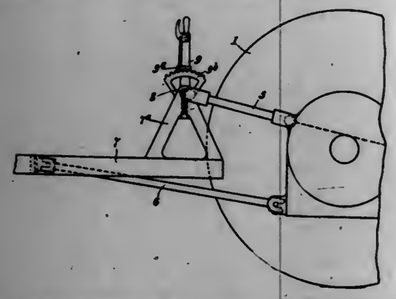
ends formed exteriorly of said clasps, said looped ends being adapted to be bent adjacent said clasps for firmly gripping and retaining the hair when in rolled position.

1,916,944. TUBE PASTE DISPENSER. GEORGE U. CARTER, Orange, Calif. Filed June 29, 1932. Serial No. 620,016. 4 Claims. (Cl. 221—60.)



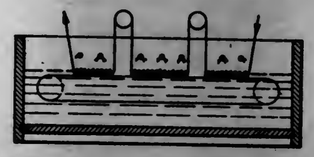
1. A tube paste dispenser comprising a housing, guide rods mounted in the housing, a drive shaft rotatably mounted in the housing in spaced parallelism with the guide rods, said drive shaft having a spiral groove therein, a frame slidably mounted on the guide rods and on the drive shaft, the end portion of the frame which is engaged with the drive shaft being bifurcated, a worm gear mounted on the drive shaft and having its ends engaged with the bifurcations of the frame, a key on the worm gear engaged in the groove of the drive shaft, a sleeve journaled for rotation in said one end portion of the frame, a gear on the sleeve engaged with the first named gear for actuation thereby, means for actuating the drive shaft, and a spool journaled in the frame and operatively connected with the sleeve for actuation by said sleeve, said spool being connectible with the tube for winding said tube thereon.

1,916,945. TRACTOR-DRAWN AGRICULTURAL IMPLEMENT. HARRY FERGUSON, Belfast, Ireland. Filed June 6, 1929, Serial No. 368,876, and in Great Britain July 3, 1928. 17 Claims. (Cl. 97—47.)



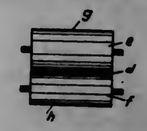
1. A hitch connection for coupling an agricultural implement to a tractor comprising two spaced universal mountings on the tractor, two links each secured at one end to one of said mountings, a cross shaft turnably secured to the implement, a crank at each end thereof, the cranks being set at different angles to the shaft and the second ends of the links being universally secured to the cranks, and means for rotating said shaft to vary the relative positions of the links.

1,916,946. PROCESS FOR WET-TREATMENT, ESPECIALLY FOR WASHING TEXTILE GOODS IN THE FORM OF FABRICS. CONRAD J. FRÜH, Zurich, Switzerland. Filed Aug. 8, 1931, Serial No. 556,006, and in Germany June 6, 1929. 1 Claim. (Cl. 8—19.)



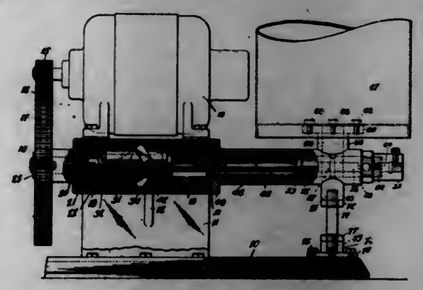
The method of washing fabric in the piece which consists in forming a series of loose plaits in the fabric, partially immersing the plaited fabric in a washing bath in such manner that the upper portions of the plaits project above the bath whereby the fabric is substantially supported by the flotative effect of the bath, moving the fabric in its plaited condition through the bath without producing pressure on or tension in the fabric, and simultaneously with said movement sprinkling the portions of the plaits projecting above the bath.

1,916,947. MACHINE FOR IMPRESSING PATTERNS ON MATERIALS. WALTER HAENDEL, Berlin, Germany. Filed June 12, 1929, Serial No. 370,358, and in Germany June 20, 1928. 3 Claims. (Cl. 204—1.)



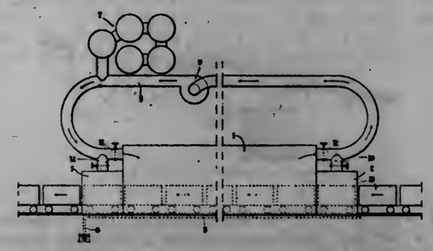
1. In a machine for impressing patterns on fabrics, knitted materials, woven materials, leather and other materials composed of vegetable and animal fibres by electrolytic decomposition of a solution contained in the material, rollers of non-conductive material, a layer of thin conductive material cut out and forming a stencil arranged on said rollers, and current leads connected to said stencil, as set forth.

1,916,948. GREASE PUMP. PAUL D. HARTOG, St. Louis, Mo., assignor, by mesne assignments, to Frier-Hartog, Incorporated, a Corporation of New York. Filed July 19, 1929. Serial No. 379,508. 8 Claims. (Cl. 103—213.)



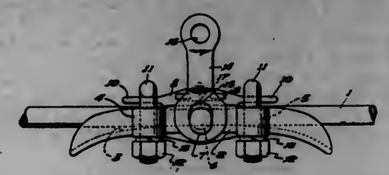
7. The combination with the piston rod of a grease pump, of a driving mechanism therefor comprising a cylinder aligned with the longitudinal axis of the piston rod, a piston operating member slidably engaging the cylinder and bearing upon the inner walls thereof, a cam groove about the periphery of said piston operating member, a member carried by said cylinder and projecting inwardly therefrom into said cam groove, and means to rotate said piston operating member.

1,916,949. CELLULAR SYNTHETIC CARBONATE PRODUCT. CHARLES HOLMES HARRISON, Iron Acton, England, and ARTHUR HUGO HARRISON, Gold Pines, Ontario, Canada, assignors to Carbonated Lime Processes Limited. Filed Feb. 2, 1931. Serial No. 512,999. 4 Claims. (Cl. 1847.5.)



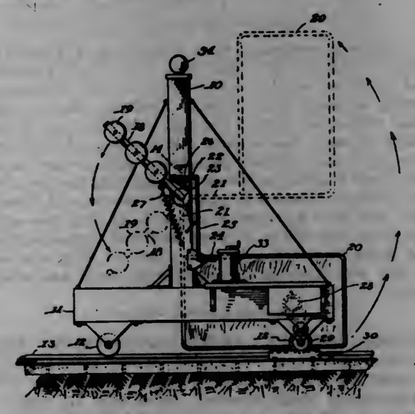
1. A cellular synethetic product the aggregate of which consists of cells bonded into a structural unit with carbonated lime.

1,916,950. RELEASING CLAMP. KENT A. HAWLEY, Baltimore, Md., assignor to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed July 11, 1929. Serial No. 377,565. 9 Claims. (Cl. 248—31.)



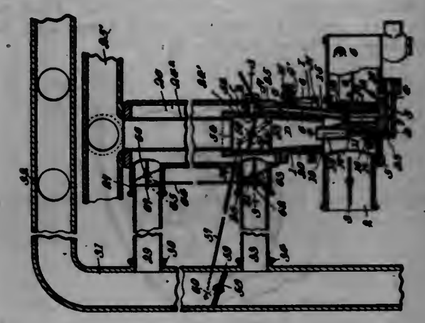
1. A combination, a clamping member adapted to support a conductor, a suspension means for said clamping member, a second clamping member, bolt means connecting said clamping members, and means located above the conductor engaging portion of the second clamping member and cooperating between the suspension means and the second named clamping member for distorting and decreasing the holding action of the latter.

1,916,951. RACE-STARTING GATE. EDWARD J. HEALY, Baltimore, Md. Filed Dec. 5, 1929. Serial No. 411,908. 9 Claims. (Cl. 119—15.5.)



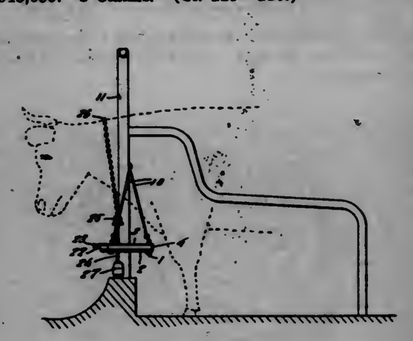
1. A starting gate for race tracks, comprising means for separating the horses while they are in starting position on the track, and means operable upon the start of the race for moving the said separating means out of position on the track in a direction out of the path of the horses' vision and to thereby leave the track unobstructed so that the horses may re-pass through the gate in the course of a race.

1,916,952. CHARGE FORMING AND FEEDING MEANS FOR INTERNAL COMBUSTION ENGINES. FRANK H. HEITGER, Flint, Mich.; Mattie G. Heitger, Flint, Mich., administratrix of said Frank H. Heitger, deceased. Filed Aug. 15, 1929. Serial No. 386,174. 6 Claims. (Cl. 123—122.)



6. In a charge forming system for internal combustion engines, the combination with main and auxiliary means for forming explosive charges of fuel and air, of a heated riser disposed between said charge forming means and said engine having independent passages to receive explosive charges from said main and auxiliary charge forming means, a throttle valve disposed in said riser, one of said passages extending through the heated riser and terminating posterior of said throttle valve.

1,916,953. CATTLE HITCH. ARMAND P. JACOBSEN, Cranbury, N. J., assignor of one-half to William Sayler, Cranbury, N. J. Filed June 11, 1931. Serial No. 543,699. 3 Claims. (Cl. 119—110.)



1. A cattle hitch comprising, in combination, a casing, means for suspending the casing in position in a stall, said casing having a slot extending thereinto, a member suspended from the animal's neck for engagement in the slot, and a pair of complementary keepers pivotally supported in the casing for disposition across the slot for retaining the member therein, said keepers being operatively engageable by the member entering the slot for actuation to their closed position by said member.

1,916,954. MAKING POROUS MATERIAL. HANS KRAUSS, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed July 22, 1931, Serial No. 552,551, and in Germany July 29, 1930. 4 Claims. (Cl. 49—77.5.)

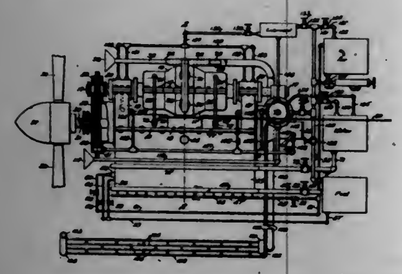
1. A process of making porous material having a high strength and mostly closed pores from molten refractory slags which comprises causing the molten slag to flow on to a porous bedding soaked with water in such a manner that the level of the water is approximately equal to but not below the level of the bedding.

1,916,955. MOUNTING AN ANCHOR BRIDGE IN WATCH MOVEMENTS. ALBERT KUNZ and CHARLES-FERDINAND PERRET, Le Locle, Switzerland. Filed May 11, 1931. Serial No. 536,636, and in Switzerland Nov. 12, 1930. 1 Claim. (Cl. 58—104.)



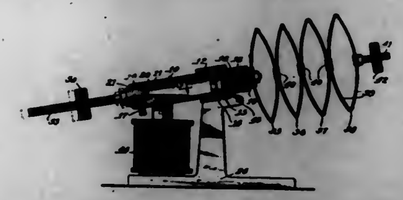
Apparatus for adjusting the footless anchor bridge on its support in a horological movement having an escapement wheel, comprising an anchor bridge, a support on which the said bridge is adjustably mounted, enlarged cylindrical portions adjacent the periphery of the said bridge, the said support having recesses therein of circular section closely conforming in shape to the said cylindrical portions and adapted to receive said portions, so that the position of the anchor bridge with respect to its support is exactly determined both vertically and laterally, and banking pins on said bridge for limiting the movement of the escapement lever for the escapement wheel, and at least one bearing opening in said bridge for the pivot of the escapement wheel.

1,916,956. AIRCRAFT. JAMES EDWARD LAKE, Evanston, Ill. Filed Dec. 16, 1931. Serial No. 581,481. 4 Claims. (Cl. 244—25.)



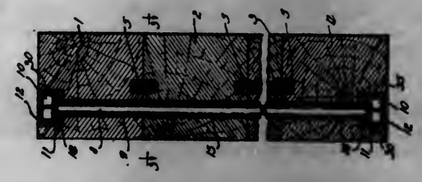
4. In combination with an aircraft having a propeller, a steam turbine to drive the same, a manifold therefor, a condenser associated with said manifold, and an aspirator pipe positioned in said manifold having upon one end thereof a funnel to receive a draft from the propeller to draw the exhaust from the turbine.

1,916,957. MERCURY SWITCH AND THE LIKE. FRED S. ARMSTRONG, River Forest, Ill., assignor to Jefferson Electric Company, Bellwood, Ill., a Corporation of Illinois. Filed Apr. 22, 1930. Serial No. 446,268. 11 Claims. (Cl. 200—138.)



1. In a device of the class described, the combination of a mercury contactor including a chamber wherein is contained a body of mercury adapted to be shifted from end to end of the device when it is tilted, means for pivotally supporting the device to permit it to tilt about a horizontal transversely extending axis whereupon the mercury travels lengthwise of the device between circuit closing and circuit opening positions, with consequent shifting of the center of gravity of the device, an adjustable counterbalance on the device for establishing a condition of balance when the mercury is at its position most distant from the pivotal support one portion of the device being of magnetic material, a solenoid in position to influence said magnetic material portion, and means for energizing the solenoid to thereby exert attraction for the magnetic material when the mercury is in one position where said mercury is closer to the pivotal point of the device than otherwise, to thereby compensate for the shifting of center of gravity of the device due to shifting of the position of the mercury, substantially as described.

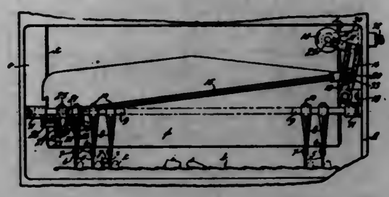
1,916,958. PICKLING TANK. JOSEPH R. BROOKS, Chicago, Ill., assignor of one-half to Wilbur R. Pounder, Chicago, Ill. Filed June 3, 1929. Serial No. 367,959. 2 Claims. (Cl. 217—4.)



1. An acid resistant tank comprising a plurality of wooden members laid one upon the other, grooves in said members, wooden strips fitted in said grooves, and joining adjacent ones of said members together, there being bolt holes drilled through said members independently of said grooves and counterbored at their ends, bolts extending through said holes, lead sleeves on said bolts, said sleeves projecting into said counterbores, nuts and washers disposed in said counterbores and threaded upon said bolts and against the ends of said sleeves, and lead seals disposed in said counterbores around said nuts and washers and fused to the ends of said sleeves to thereby completely encase said bolts, nuts, and washers in lead.
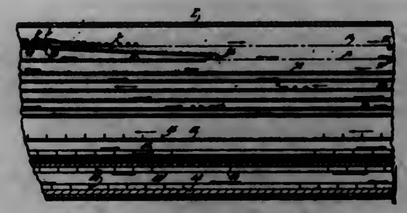
1,916,959. ARTICLE ALIGNING MECHANISM. ALONZO LINTON BAUSMAN, Springfield, Mass., assignor to National Equipment Company, Springfield, Mass., a Corporation of Massachusetts. Filed Apr. 17, 1930. Serial No. 445,164. 6 Claims. (Cl. 198—30.)

1. In a confection coating machine and in combination with the conveyer on which the confections are carried in a plurality of longitudinally disposed rows while being coated, a plurality of fingers one for each such row mounted above said conveyer in laterally spaced relation and arranged in a transverse series across said conveyer, each such finger positioned in alignment with the direction of movement of said conveyer and all such fingers except for one end finger of the series disposed between the rows of confections, said fingers mounted for simultaneous and bodily shifting movement with a motion of pure translation in a direction transverse to the direction of movement



of the conveyer, means for reciprocating said fingers, means for adjusting the stroke thereof, and means for simultaneously varying the position of all such fingers with respect to the conveyer, said stroke-adjusting and position-varying means being manipulated for confections of any given size so that each finger will at one end of its stroke just touch a confection in one of the two adjacent rows and at the other end of its stroke just touch a confection in the other adjacent row provided the confection in each case is accurately aligned in its row.

1,916,960. METHOD AND APPARATUS FOR MAKING CONFECTIONS. ALONZO LINTON BAUSMAN, Springfield, Mass. Filed Aug. 6, 1930. Serial No. 473,324. 7 Claims. (Cl. 107—8.)

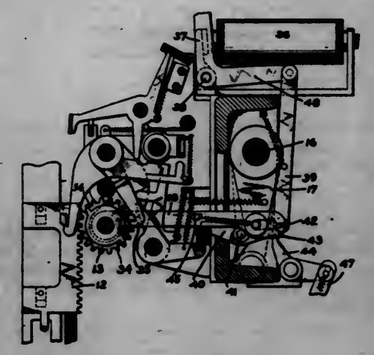


2. The method of making molded confections, consisting in forming molds in starch-like material, in casting confections in said molds, in causing the confections to become partially set while in said molds, in disintegrating the molds and gradually separating said material from the confections before the latter have fully set, and in completing the setting of the confections after the same have been removed from said material.

1,916,961. GROUP INDICATING SYSTEM. JAMES W. BAYCE, Bloomfield, N. J., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed Sept. 5, 1928. Serial No. 304,139. 15 Claims. (Cl. 235—92.)

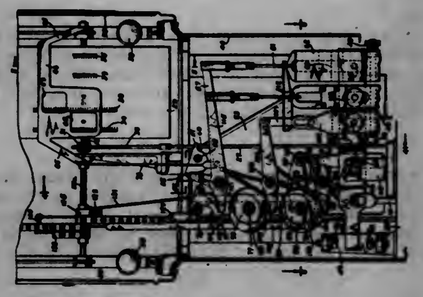
1. In a record controlled tabulating machine, an entry receiving device adapted to receive entries from the

records, means for comparing index points of successive records and means controlled by said comparing means for



automatically causing resetting of said entry receiving device and then re-entering the first item entry as long as subsequent cards have identical index points.

1,916,962. SCALE. JAMES W. BAYCE, Bloomfield, N. J., assignor to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Sept. 11, 1930. Serial No. 481,101. 14 Claims. (Cl. 265—60.)

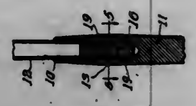


1. In a scale, weighing mechanism, an indicating mechanism controlled thereby having a plurality of indications thereon proportional to weight, certain of said indications representing in duplicate both front and rear of said scale the normal capacity of said scale, the others representing in duplicate an excess capacity, means for increasing the capacity of said mechanism beyond the normal capacity, and means controlled by said last named means for obscuring said duplicate normal capacity indications and exposing said duplicate excess capacity indications whenever said first named means is effective.

1,916,963. GOLF CLUB. ALFRED E. BUHRKE and ALLEN F. HEETER, Chicago, Ill., assignors to R. H. Buhrke Company, a Corporation of Illinois. Filed Sept. 26, 1930. Serial No. 484,534. 5 Claims. (Cl. 273—80.)

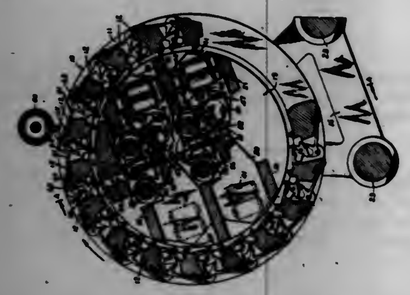
1. In a golf club, the combination with a metallic head portion provided with an integrally formed hosel and having a hosel socket therein, a tubular metallic shaft adapted to co-operate with said hosel opening, and a locking device angular in cross section on the interior of said

shaft within the hosel opening and being adapted when driven thereinto to force the material in the walls of the tubular shaft outwardly to tend to conform to the



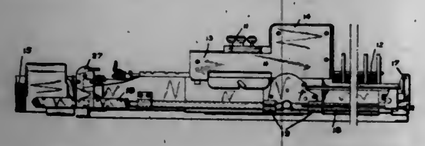
cross sectional angular shape of the locking device and to cause the material of the tubular shaft thus distorted to penetrate the walls of the hosel.

1,916,964. PRINTING MECHANISM. FRED M. CARROLL, Yonkers, N. Y., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed June 26, 1930. Serial No. 463,900. 18 Claims. (Cl. 101—96.)



1. In a printing machine, type members supported both for movement in a circumferential path and for movement in the same direction in a supplemental pivotal striking path, and means for selectively calling one or more of said members into movement in their striking paths.

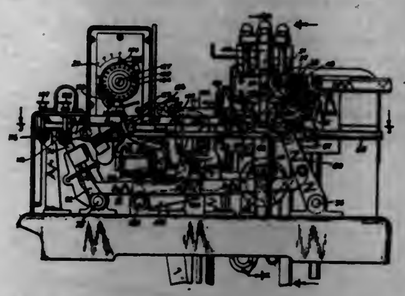
1,916,965. CARD HANDLING MACHINE. JAMES MASON CUNNINGHAM, San Pedro, Calif., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed Sept. 6, 1929. Serial No. 390,755. 23 Claims. (Cl. 271—82.)



1. In a card handling mechanism, in combination, means automatically operable for flipping and turning a card to an eject position, said means including provisions for automatically gripping the card while it is being flipped and movable means engaging the card to positively remove the card from said gripping means when said card is in the eject position.

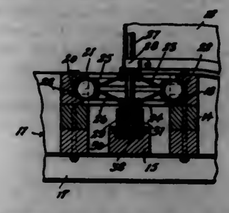
1,916,966. GANG PUNCH. JAMES MASON CUNNINGHAM, Endicott, N. Y., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed May 6, 1930. Serial No. 450,130. 8 Claims. (Cl. 101—19.)

1. In a machine of the class described, means for feeding a record card to printing position, means for counting the number of cards passing to said printing position, an operating mechanism therefor controlled by an electric



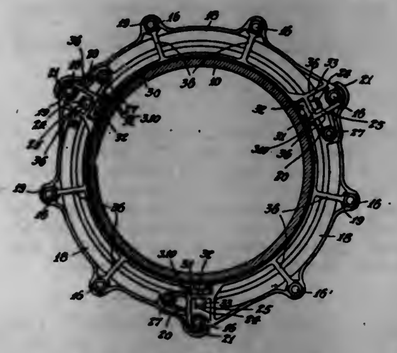
circuit, and means controlled by the card in printing position for rendering said circuit effective.

1,916,967. FLEXIBLE COUPLING FOR VEHICULAR STRUCTURES. GLENN H. CURTISS, Country Club Estates, Fla., assignor, by mesne assignments, to Curtiss Aerocar Company, Inc., Opa Locka, Fla., a Corporation of Florida. Filed June 8, 1928. Serial No. 283,881. 32 Claims. (Cl. 280—33.1.)



27. A coupling mechanism for connecting two vehicles together for articulate tractor-trailer operation including an annular pneumatic cushion so positioned as to cushion the draft action in all angular positions of the vehicles.

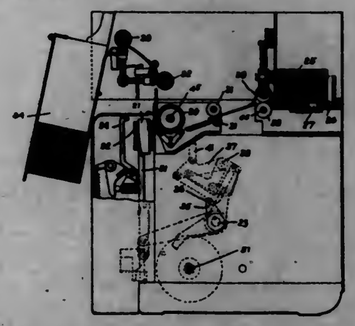
1,916,968. PIPE CLAMP. RAYMOND S. DAVIS and WILLIAM L. BEAUCHAMP, Indianapolis, Ind., assignors to National Malleable and Steel Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 8, 1930. Serial No. 494,267. 15 Claims. (Cl. 285—142.)



1. A pipe coupling which comprises a multi-sectioned ring, the sections of said ring having overlapping portions, a bull ring, bolts for tying said multi-sectioned ring and bull ring together certain of said bolts serving

to join the overlapping portions of said sections together, and additional means spaced circumferentially from said bolts for drawing together said overlapping portions in a direction parallel with said bolts.

1,916,969. ACCOUNTING MEANS. SHERWIN K. DECKER and GORDON ROBERTS, Los Angeles, Calif., assignors to International Business Machines Corporation, New York, N. Y., a Corporation of New York. Filed June 20, 1929. Serial No. 372,867. 4 Claims. (Cl. 235—92.)



1. In a record controlled accounting machine having item accumulating, item recording, and total taking mechanisms, means for feeding individual slips into position to be operated upon by the item recording mechanism, and means controlled by the total taking mechanism for operating said feeding means after item recording operations on one of the slips to feed the slip free from recording position subsequent to a total taking operation.

1,916,970. COATING FOR WALLS OF ASPHALT CONTAINERS. PAUL S. DENNING, Joliet, Ill., assignor to Frederic B. Schundler, Joliet, Ill. Filed Mar. 1, 1930. Serial No. 432,554. 8 Claims. (Cl. 91—68.)

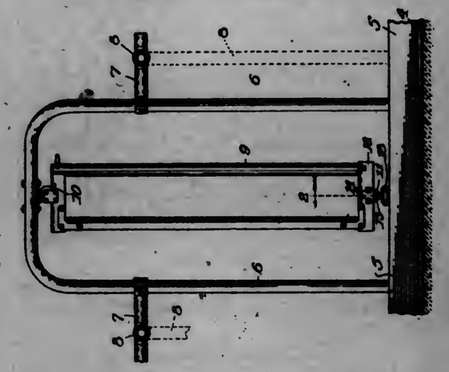
1. The process of coating the inner walls of a container for asphalt which consists in first mixing together a quantity of finely ground talc and bentonite, in the proportion of 90% to 98% of talc to 2% to 10% bentonite, mixing the mass with water while simultaneously agitating the mass, and then applying the mixture in a thin coat to the inner walls of the container.

1,916,971. HIGH TEMPERATURE CEMENT. PAUL S. DENNING, Joliet, Ill., assignor to Frederic B. Schundler, Joliet, Ill. Filed Sept. 11, 1930. Serial No. 481,355. 1 Claim. (Cl. 106—9.)

A high temperature cement capable when set of withstanding high temperature without splitting or spalling including the following initial ingredients, a water solution of magnesium sulphate, a citrate radical to the amount of one-half of one percent of the weight of the magnesium sulphate, magnesium oxide, and an aggregate to the amount of substantially one-third of the mass by weight, said aggregate comprising a quantity of particles of exfoliated vermiculite.

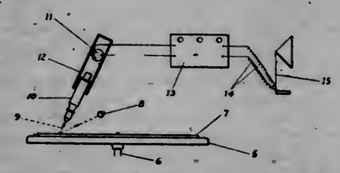
1,916,972. STALL FRONT. HENRY L. FERRIS, Harvard, Ill.; Howard J. Ferris and Eugene C. Ferris, executors of said Henry L. Ferris, deceased, assignors to Starline, Inc., Harvard, Ill., a Corporation of Illinois. Filed Mar. 1, 1930. Serial No. 432,493. 7 Claims. (Cl. 119—149.)

1. In combination with a floor comprising a curb portion containing a socket, a stall front comprising a support, a stanchion, means connecting said stanchion with said support at its upper end to swing thereon and rotate about a substantially vertical axis, and means for limiting the swinging movement of said stanchion including a flexible member ending in an enlargement, said flexible member being attached at one end to the lower end of said stanchion, the enlarged free end extending



into said socket and movable up and down therein, and restricting means removably attached to said socket, provided with an opening through which said flexible member passes and limiting upward movement thereof, the last mentioned means being located on the flexible member when the last mentioned means is detached and the member is displaced from the socket.

1,916,973. SOUND REPRODUCING MEANS AND METHOD. REGINALD T. FRIEBUS, Montclair, N. J., assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn., a Corporation of New York. Filed May 21, 1929. Serial No. 364,897. 8 Claims. (Cl. 179—100.4.)



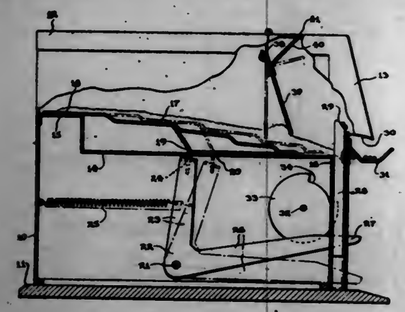
1. In a machine for reproducing sound, in combination, a sound record, means for throwing a beam of light on to said record, a microscope positioned to receive reflected light rays from a portion of the record, a light sensitive cell disposed beyond the eyepiece of said microscope, an amplifier, a circuit to said amplifier adapted to be closed when light is directed against said cell, and a loud speaker operated by said amplifier.

1,916,974. MATCH DISPENSING APPARATUS. HOMER H. FULLER and ELMER M. JONES, Atlanta, Ga.; said Jones assignor to said Fuller. Filed Nov. 16, 1931. Serial No. 575,332. 6 Claims. (Cl. 312—79.)

1. A timing device for a dispensing apparatus consisting of a plunger having a vertical slot cut therein, and a circular disk pivoted at a point adjacent the plunger and adapted to register with the slot and having a segmental portion cut therefrom to allow vertical movement of the plunger when the disk is at rest.

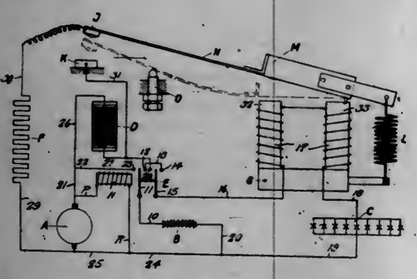
2. An article dispensing device comprising, in combination: a casing; a vertically reciprocable ejector mounted in the casing and having a slot; a feed plate movable in the casing to move articles into the range of movement of the ejector; a bell crank pivoted in the casing;

means to connect one arm of the bell crank to the feed plate; the remaining arm of the bell crank projecting through said slot and to the exterior of the casing for



manual actuation; and spring means acting upon one of the movable parts to hold all of said parts at one limit of their movement.

1,916,975. ELECTRIC REGULATION. HUGO GROB, Berlin, Germany. Filed Mar. 10, 1930, Serial No. 434,542, and in Germany Mar. 11, 1929. 15 Claims. (Cl. 171—313.)



1. In apparatus of the character described, in combination, a generator, a storage battery to be charged thereby, a work circuit, a pressure-operated carbon pile resistance in circuit with the work circuit for protecting the latter against over-voltage, an auxiliary resistance in shunt relation to said work circuit, switching means for controlling the circuit of said auxiliary resistance, and means responsive to current flowing to said work circuit adapted, when said current is below a certain value and the carbon pile resistance is insufficient, to close the circuit of said auxiliary resistance and to open the circuit of the latter when the work circuit current is above a certain value.

1,916,976. CONTAINER CLOSURE. JESSE GUTMANN, Babylon, N. Y., assignor to Ferdinand Gutmann & Co., Brooklyn, N. Y., a Corporation of New York. Filed Feb. 25, 1932. Serial No. 595,001. 4 Claims. (Cl. 215—43.)



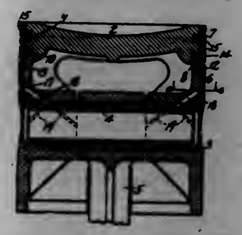
1. A container closure consisting of a rigid non-resilient, non-metallic tubular element open at both ends and having means whereby it may be attached to a container to close the same, a sealing gasket closing the top of said element, and a deformable shell of sheet material inclosing the top and the side of, and permanently secured to said element and inclosing said gasket and holding the same engaged with said element.

1,916,977. BOTTLE CLOSURE. JESSE GUTMANN, Babylon, N. Y., assignor to Ferdinand Gutmann & Co., Brooklyn, N. Y., a Corporation of New York. Filed Dec. 27, 1932. Serial No. 648,892. 7 Claims. (Cl. 215—37.)



1. A bottle closure embodying therein a thin, non-compressible, primary sealing disk of a material affording an anchorage for an adhesive or cement, and of a diameter to span and lap the top of a container outlet, a facing disk of non-absorbent, impermeable material immune to deterioration from contact with the contents of a container, and of a diameter to expose said primary sealing disk adjacent its edge to facilitate the bonding of said primary sealing disk to a container, and a stratum of bonding material securing said disks together.

1,916,978. PISTON. WILLIAM HARPER, Jr., Port Washington, N. Y. Filed Feb. 10, 1930. Serial No. 427,334. 15 Claims. (Cl. 74—108.)



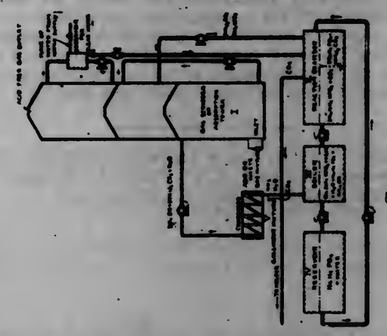
1. A piston comprising a body portion of circular cross-section having an annular groove in its periphery, a snap ring in said groove, and a continuous annular band disposed about said body portion having a groove receiving said snap ring whereby said band is locked to said body portion and said ring will prevent leakage of gases between said band and body portion.

1,916,979. PROCESS FOR PRODUCING ASYMMETRICAL DICHLORACETONE. WILLY O. HERRMANN and ERICH BAUM, Munich, Germany, assignors to Consortium für Elektrochemische Industrie, G. m. b. H., Munich, Germany, a Corporation of Germany. Filed Dec. 12, 1930, Serial No. 502,002, and in Germany Dec. 27, 1929. 10 Claims. (Cl. 260—184.)

1. A process for producing asymmetrical dichloracetone from acetone and chlorine comprising chlorinating acetone by heating the mixture above 30° C.

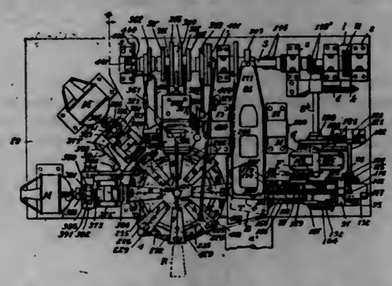
1,916,980. PROCESS FOR THE RECOVERY OF ACID GAS. GERALD J. HORVITZ, Woodmere, N. Y. Filed May 22, 1931. Serial No. 539,159. 4 Claims. (Cl. 23—2.)

1. A process of recovering waste acid gases which are unstable in solution when their normal or acid salts in solution are acted upon by an acid or acid salt of a strong acid comprising scrubbing a waste gas mixture containing an acid gas with a water solution of ammonia and ammonium carbonate, pumping said solution from the scrubbed gas into a reaction chamber and mixing with a solution of sodium dihydrogen phosphate and forming a double ammonium salt and expelling the acid gas from the solution to a holder tank, then pumping the solution to a boiler



where under heat action the complex phosphate is regenerated to sodium dihydrogen phosphate salt, ammonia and residual acid gas of solution which latter two with water vapor passes to the condenser to be recycled and the remainder of sodium dihydrogen phosphate solution passing to a reservoir for cooling and thence to the reaction chamber to be recycled.

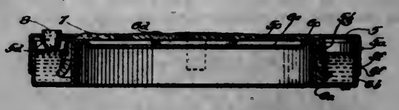
1,916,981. RECEPTACLE MAKING APPARATUS. ELLIS L. JONES, Long Island City, N. Y., assignor, by mesne assignments, to American Sealcone Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 21, 1929. Serial No. 394,315. 15 Claims. (Cl. 93—39.)



1. In receptacle forming apparatus, a disk rotatable on a vertical axis having perforated lugs equidistantly spaced about and extended upward from the top face of the disk, shafts mounted in the lug perforations, holders for receptacle bodies each comprising a pair of sections pivotally supported upon a shaft to extend upward from and beyond the periphery of the disk, and each holder section having a laterally and downwardly extending arm, rollers carried by said arms, a spring interposed between the holder sections exerting a spreading force on the sections, a fixed annular member extended around the disk upon which said rollers ride to maintain the holder sections in mating relation against the tension of the spring, and means to intermittently rotate the holder carrying disk.

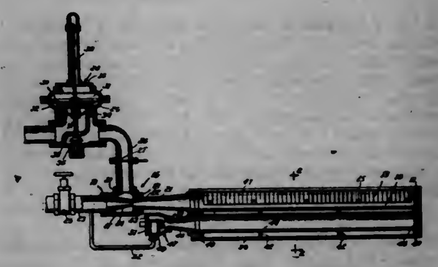
1,916,982. FLY DESTROYER. MARGARET JONES, Milwaukee, Wis. Filed Jan. 25, 1932. Serial No. 588,555. 8 Claims. (Cl. 43—131.)

1. A fly destroyer comprising a box having a top opening, an absorbent pad under the latter, a water trough receiving the marginal portion of the pad, and a bottom inwardly of the water trough and having a raised portion supporting the pad from underneath, said raised portion



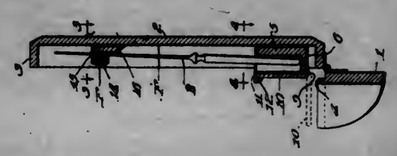
having a medial depression for receiving a fly poison deposit, and radial channels extended from said depression for access of a solution of said deposit to outer portions of the pad.

1,916,983. GAS BURNER. GARNET W. MCKEE, Rockford, Ill. Filed Nov. 8, 1928. Serial No. 318,079. 15 Claims. (Cl. 158—119.)



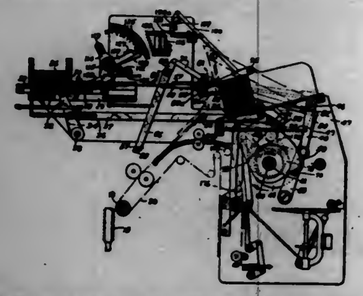
1. A gas burner comprising, in combination, an enclosed casing having an opening, a burner element disposed in said casing and having means for defining a gas flame in registration with said opening, a proportioning device connected to said element, means for supplying a fluid under pressure to said device as an inducing fluid, means for supplying another fluid by induction to said device, and means for supplying secondary air to said casing, said last mentioned means being responsive to the pressure of said inducing fluid.

1,916,984. CHEST FOR SILVERWARE. JENE L. NAKEN, Chicago, Ill. Filed Mar. 3, 1932. Serial No. 596,446. 2 Claims. (Cl. 206—16.)



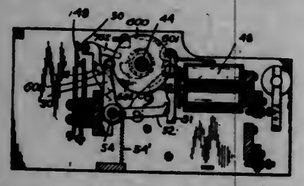
1. The combination with a case for silverware, including a hinged lid, adapted to house knives of different lengths, of a row of deep pockets for the knife handles extending along the inner side of the lid near the hinged edge and open only on the end that is at the top when the lid is upright, and a ledge extending across the lid parallel with said row of pockets, between the pockets and the edge of the lid opposite the hinged edge, said ledge having blade-receiving slits through the same, there being a slit directly opposite each pocket, the distance of the ledge from the row of pockets being such that the blades of short as well as long knives having their handles in the pockets will be received by the said slits, and the depth of the pockets being such that the ends of the short knives will strike against a part of the case before clearing the pockets when the knives are moved lengthwise to withdraw them from the pockets while the lid is closed.

1,916,985. PRINTING DEVICE FOR TABULATING MACHINES. JAMES STANLEY OGSBURY, Dayton, Ohio, and FRED M. CARROLL, Yonkers, N. Y., assignors to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed May 27, 1931. Serial No. 540,256. 17 Claims. (Cl. 235—92.)



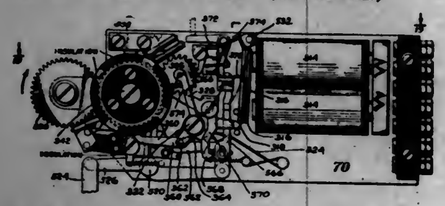
1. In a machine of the class described, a single set of printing devices for listing groups of items and the totals thereof upon a strip, a hinged electro plate adapted to be swung before printing therefrom to printing position adjacent the printed strip, a roller, and an operating mechanism automatically effective after printing each group of items for printing a related total by said printing devices and reciprocating said roller over the electro to impress separate sections of the strip against said electro.

1,916,986. GROUP INDICATING SYSTEM. RALPH E. PAGE and CLAIR D. LAKE, Binghamton, N. Y., assignors to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed Dec. 15, 1928. Serial No. 326,275. 14 Claims. (Cl. 235—92.)



1. In an accounting machine, an accumulator having transfer devices for different denominational orders, operating means for said accumulator, means for automatically controlling said operating means to enter ten units into the units order and means for automatically controlling said operating means to enter nine units into all other orders of the accumulator irrespective of the amount represented by each order of the accumulator.

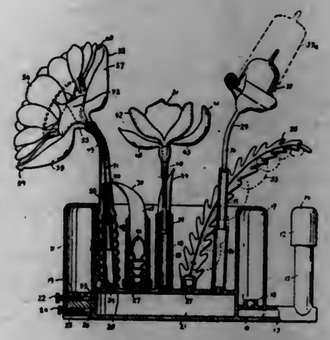
1,916,987. ACCOUNTING MACHINE. JOHN R. PEIRCE, New York, N. Y., assignor, by mesne assignments, to The Tabulating Machine Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 18, 1927. Serial No. 226,845. 17 Claims. (Cl. 235—92.)



11. In an accumulating device, an accumulating gear, a constantly running gear, a pinion constantly meshing with said accumulating gear and a pinion constrained to turn with said first named pinion and record controlled means for causing said second named pinion to be moved into mesh with said constantly running gear.

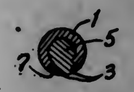
16. An entry receiving device with means for entering readings therein and means for reading the data represented by the entry receiving device comprising a rotatable commutator with means for setting the same in accordance with the reading of the entry receiving device, means for rotating the commutator and means cooperating therewith during rotation for effecting a reading of the data represented by the original setting of the commutator when the latter reaches zero position.

1,916,988. COLLAPSIBLE FLOWER DISPLAY. FRITZ PIESCHKE, New York, N. Y. Filed Nov. 12, 1932. Serial No. 642,385. 22 Claims. (Cl. 41—12.)



22. In an artificial flower, an elongatable stem, means elongating said stem, and a tensile means contracting said stem and counteracting said elongating means.

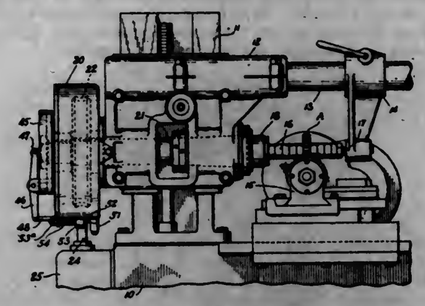
1,916,989. WIRE. HAROLD K. RADER, Port Huron, Mich., assignor to Mueller Brass Co., Port Huron, Mich., a Corporation of Michigan. Filed May 14, 1930. Serial No. 452,450. 3 Claims. (Cl. 29—182.)



1. A wire comprising a sheath of resiliant metal, the cross section of which comprises an incomplete circle, and solder positioned within said incomplete circle, the exterior surface of said solder comprising a continuation of the surface of said sheath to form a regular figure.

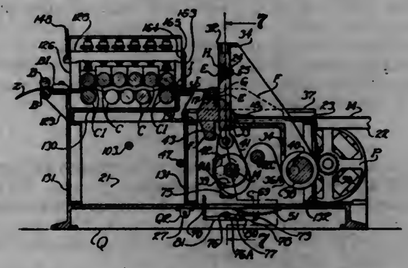
1,916,990. INDEXING MECHANISM. STAFFORD M. RANSOME, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Dec. 7, 1931. Serial No. 579,515. 11 Claims. (Cl. 74—7.)

1. A drive mechanism comprising, in combination, a housing, a drive shaft rotatably mounted in said housing, a worm mounted in said housing for rotation with said shaft, a worm wheel mounted for rotation in said housing and meshing with said worm, a cam mounted externally of said housing for rotation with said worm wheel and formed in accordance with the cooperative inaccuracy of said worm and worm wheel, and means actuated by said cam and extending into said housing for shifting



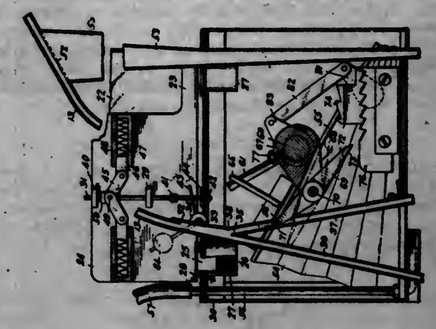
said worm axially in said housing, whereby said worm wheel is rotated to compensate for said cooperate inaccuracy.

1,916,991. LONG STOCK FABRICATING MACHINE. JOSEPH H. ROBERTS, Waterbury, Conn., assignor to F. B. Shuster Co., Inc., New Haven, Conn., a Corporation. Filed May 23, 1929. Serial No. 365,528. 22 Claims. (Cl. 164—49.)



1. In a machine for shearing a wide but relatively long metal strip into shorter but equal sub-lengths, the combination with a roll-stand, of an adjacent shear-stand normally stationary but reciprocable to and from the adjacent roll-stand lengthwise of the strip; wide rotatable rolls with their long axes arranged transversely of the strip substantially from edge to edge thereof, feeding the same lengthwise and journaled in the roll-stand; a shear-carrier also normally stationary but reciprocable in the shear-stand to and from a surface of the strip and arranged transversely of the strip; a shear-blade fixed to said carrier and also arranged transversely of the longitudinally fed strip and carried thru the strip by its said carrier; shear-operating mechanism reciprocating said shear-stand and shear-carrier, a drive-shaft; mechanism connecting said drive-shaft continuously with said transverse feed rolls; mechanism including a uniformly-acting clutch for operatively connecting said drive-shaft to the shear-operating mechanism at desired times; mechanism normally locking said clutch in inoperative relation between the drive-shaft and shear-operating mechanism; a master device for unlocking said clutch to cause the drive-shaft to operate the shear-operating mechanism; an adjustable-speed mechanism continuously operated via said drive-shaft and operating said master device; mechanism operated by the shear-operating mechanism to re-lock said clutch in inoperative relation between the drive-shaft and shear-mechanism; and alternative mechanism operable at will for operating said master device and constructed and arranged to keep said continuously operated adjustable-speed mechanism and said master device from operating connection with one another while said alternative mechanism is operating said master device.

1,916,992. PERFUME VENDING MACHINE. SALVATORE SCHIANO, Brooklyn, N. Y. Filed Dec. 14, 1931. Serial No. 580,898. 16 Claims. (Cl. 194—1.)



1. In a coin-controlled vending machine, a coin-receiving chute bifurcated to provide a coin-return chute and a coin-retaining chute, a shutter in the coin-receiving chute above the other chutes, said shutter being normally arranged out of the path of the coin to permit the coin to enter the coin-retaining chute, and means for operating the shutter to direct a coin into the coin-return chute when substantially all of the vendable material has been dispensed, comprising a spring-pressed supporting member for the material, adapted to move upwardly as the material is dispensed, and means for operatively connecting said member to the shutter to swing said shutter to obstruct the coin-retaining chute.

1,916,993. THRUST PLATE. LEO J. SCHUMAKER, Dayton, Ohio, assignor to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Feb. 19, 1930. Serial No. 429,594. 1 Claim. (Cl. 308—2.)



In combination with a knife edge and a bifurcated support therefor, an angle plate having a vertical side for engaging the end of the knife edge to resist end thrust thereof and a horizontal side for engaging the top of the support, said horizontal side provided with elongated slots, and screws threaded into each furcation of said support and passing through the slots for engaging and adjustably fixing the angle plate relative to the support.

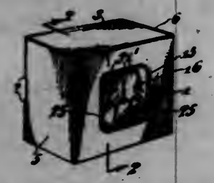
1,916,994. PUSHPIN PACKAGE. ADOLPH SIMONIST, Jenkintown, Pa., assignor to Moore Push-Pin Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 6, 1930. Serial No. 438,528. 5 Claims. (Cl. 206—46.)



5. A push pin package comprising in combination a carton having front and rear sides and sides located intermediate the opposite edges of the said front and rear

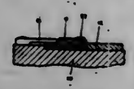
sides, one of the said opposing sides being extended to form a section located inside of and in contiguous relation to the said rear side, said section having a portion stamped out and bent inwardly to form a shelf, and the outer edge of said section being extended to provide a portion which extends downwardly in angular relation to the said section, push pins mounted upon the said shelf, said push pins being engaged by the lower inner edge of the downwardly extended portion of said section whereby they are retained upon the said shelf.

1,916,995. HOOK DISPLAY CARTON. ADOLPH SIEGRIST, Jenkintown, Pa., assignor to Moore Push-Pin Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 6, 1930. Serial No. 433,524. 2 Claims. (Cl. 206—46.)



1. A carton for supporting and displaying small articles of merchandise comprising front and rear sides, the front side having an opening therein closed by a transparent sheet and also having a sheet located intermediate the said front and rear sides and extending upwardly in a plane making an acute angle with the plane of the front side, the upper and lower edges of the said sheet being located in contact with the opposite sides of the said carton intermediate of and in spaced relation to the said front and rear sides, the lower portion of the said sheet being integral with a portion extending inwardly from the lower edge of the rear side of the said carton, and the upper edge of the said sheet having an extension extending toward the rear side whereby the rear side operates to retain the said sheet in predetermined position within the said carton.

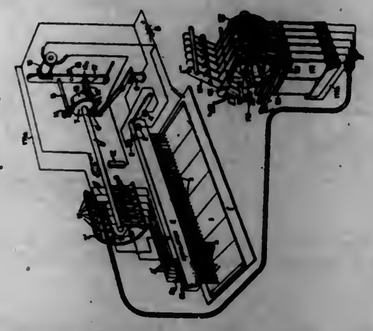
1,916,996. MACHINE FOR PRESSING SOUND RECORDS AND THE LIKE. WILLIAM SOMNER, London, England, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn., a Corporation of New York. Filed May 27, 1930, Serial No. 456,065, and in Great Britain June 19, 1929. 3 Claims. (Cl. 18—5.3.)



2. In combination, a die holder, a matrix on said die holder, means to clamp the matrix to the die holder, said means including a ring, means on the die holder to cooperate with the ring and force it against the die holder on the ring being given a partial rotation, a buffer ring between the matrix and said first ring and adapted to be pressed into place to clamp said matrix to the die holder on the first ring being given a partial rotation.

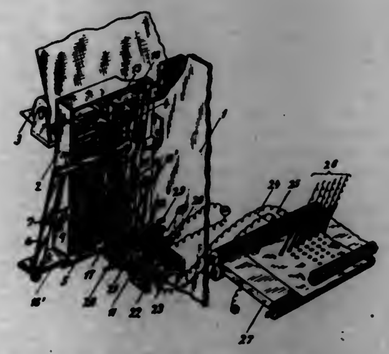
1,916,997. MACHINE FOR CALCULATIVELY INTERPRETING PERFORATED CARDS. GUSTAV TAUSCHEK, Vienna, Austria, assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed Mar. 1, 1928, Serial No. 258,239, and in Austria Mar. 24, 1927. 16 Claims. (Cl. 235—92.)

2. In a machine controlled by cards having columns of perforations, a plurality of columns comprising a card field, an accounting mechanism for adding the numbers represented by said card fields, a sensing device for each card column, a bar upon which said sensing devices are mounted, said bar adapted to be oscillated in the direction of the columns of perforations, contacts forming part of an electric circuit and arranged to be closed by said bar in each end position thereof, and an electromagnet in said circuit operable to effect a control in succession by each of said card fields for the accounting mechanism.



16. In a machine of the class described controlled by a single card having several fields of perforations representing entries, each field constituting several card columns, a single accounting device, perforation analyzing devices one for each card column, and means effective while maintaining the normal columnar relationship between the analyzing devices and the columns of perforations for connecting the single accounting device to receive successively the entries from the several card fields under control of the analyzing devices.

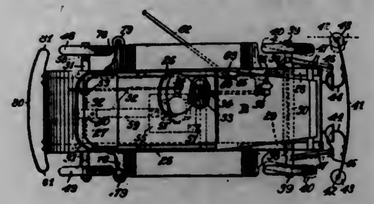
1,916,998. TABULATING, CALCULATING, AND SIMILAR MACHINE. GUSTAV TAUSCHEK, Vienna, Austria, assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed May 28, 1930, Serial No. 456,367, and in Austria July 25, 1927. 19 Claims. (Cl. 101—58.)



1. In a tabulating machine, the combination of sensing mechanism for interpreting a perforated card, a magazine having two compartments arranged side by side for receiving type slugs in columnar relation, means for guiding a web of paper for receiving imprints thereon, a hammer arranged to engage one of said type slugs to cause the same to print on said web, a reciprocable slide arranged to transfer type slugs from the top of the first compartment to the top of the second, a second reciprocable slide arranged to transfer type slugs from the bottom of the second compartment to the bottom of the first means controlled by said card for operating said hammer, and means for reciprocating said slides.

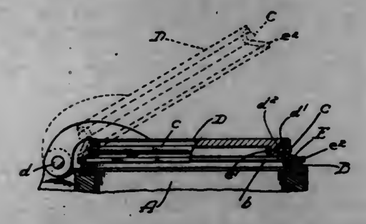
CARNEGIE LIBRARY OF ATLANTA

1,916,999. AMUSEMENT RIDE AND VEHICLE. HARRY G. TRAVER, Beaver Falls, Pa. Filed July 24, 1929. Serial No. 380,568. 20 Claims. (Cl. 104—63.)



1. In a vehicle arranged with driving and steering wheels, steering knuckles connected with the steering wheels and having a part extended forward of the wheels, a bumper bar, and semi-circular yielding members secured at one end to the bar and pivotally mounted at the opposite ends on the extended knuckle parts, said bar being of a length to extend beyond the sides of the vehicle and operative to adjust the steering wheels by the colliding of said bar with an obstruction in the path of travel of the vehicle to steer the vehicle away from the obstruction.

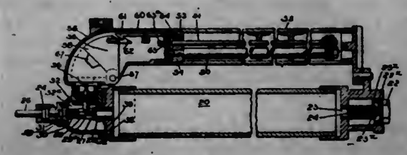
1,917,000. VALVE. EMIL TYDEN, Hastings, Mich. Filed June 30, 1930. Serial No. 464,944. 8 Claims. (Cl. 251—128.)



1. A valve consisting of a rigid body member having a peripheral encompassing groove of substantial depth radially of said body member forming a radially extended flange of the body member at the seating side of said body member; a ring of resiliently flexible material dimensioned as to diameter for snugly peripherally encompassing the body member at the sone of said groove, and as to width exceeding the width of the groove, plus the dimension of said flange axially of the valve body member by an amount sufficient to form a seating face of the valve; a flexible element encompassing said seating member at the sone of the groove and stressed thereabout, the said seating member being pressed by said flexible element into the groove with said excess width protruding radially from the periphery of the body member about the entire circumference thereof, whereby said flexible resilient ring constitutes a resiliently flexible seating member of the valve.

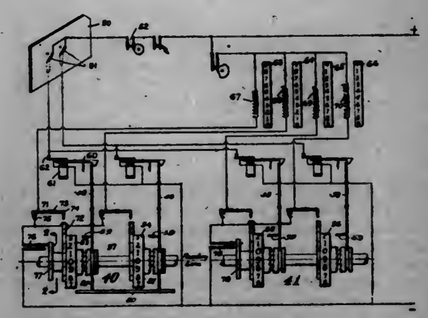
1,917,001. TEMPERATURE RESPONSIVE DEVICE. EMIL TYDEN, Hastings, Mich. Filed Nov. 19, 1930. Serial No. 496,807. 9 Claims. (Cl. 169—19.)

1. A construction arranged to be mounted as a unit on the enclosing walls of an apartment to be protected against fire comprising two cooperating members, the first being an elongated chamber arranged for connection at one end with a source of fluid under pressure and having at the other end a valved fitting adapted to be connected for communicating said fluid pressure, and having a valve controlling said communication; a similarly elongated structure comprising elongated temperature-responsive members and a housing in which they are carried arranged to serve as a mounting for said fluid pressure chamber and having said chamber fixedly attached to said housing, the housing having mounted movably on it proximate to the valve fitting of the fluid pressure chamber a part whose movement is controlled by the temperature-responsive action of said temperature-responsive members arranged with respect to said fitting and the valve thereof for operating said valve for communicating the fluid pressure to fire-protective devices.



6. An apparatus comprising a fitting arranged for detachably attaching thereto a charging pipe with a plug closing said connection, said fitting having a chamber which is closed at the outer end by a sleeve mounted in the fitting constituting a flow passage from said chamber of the fitting into a fluid pressure chamber, and a check valve in said flow passage opening for flow into the pressure chamber and seating against backflow.

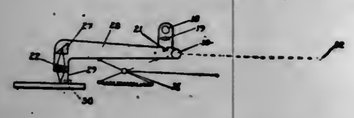
1,917,002. DEBIT AND CREDIT TABULATOR. HERMANN ADALBERT WEINLICH, Berlin, Germany, assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed Mar. 12, 1927, Serial No. 174,780, and in Germany Mar. 20, 1926. 15 Claims. (Cl. 235—92.)



1. An accounting machine including an accumulating mechanism, means for entering certain items as direct numbers and other items as the tens complement to add and subtract, printing mechanism controlled by said accumulating mechanism and comprising two sets of printing devices, the type of one set of devices being complementally arranged with respect to the type of the other set of devices, and means controlled by the accumulating mechanism for automatically selecting one or the other of said sets of devices for a printing operation in accordance with whether the accumulating mechanism is in a positive or negative condition.

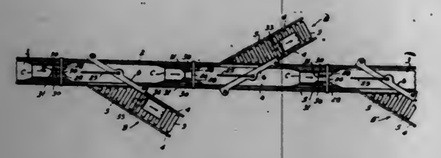
3. An accounting machine comprising a pair of accumulators one of which comprises adding elements initially set to a normal position and the other of which comprises adding elements initially set to an off-normal position, means for additively and subtractively entering numbers in both accumulators, mechanism controlled by said accumulators for manifesting balances standing on each accumulator, and selective means for selecting one of said accumulators for the result manifesting operation by said mechanism when the balance is represented as a true number or the other accumulator when the balance is represented as a nines complement.

1,917,003. REPRODUCTION OF SOUND RECORDS. WILLIAM EWART WILLIAMS, Bromley, England, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn., a Corporation of New York. Filed Jan. 20, 1930, Serial No. 422,151, and in Great Britain Jan. 21, 1929. 8 Claims. (Cl. 179—100.4.)



1. Apparatus for reproducing sound from a sound record, said apparatus including means for projecting a beam of light upon a record, means for intercepting the light reflected from the surface of the record, a light sensitive device for converting the reflected light into electrical impulses, a diaphragm having an aperture, means for projecting an image of said aperture onto the surface of the sound record, a diaphragm in front of the light sensitive device, and said second diaphragm having an aperture for the passage of light rays.

1,917,004. CONVEYER SYSTEM. ROY R. WORRALL, Webster Groves, Mo., assignor to Alvey Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 2, 1931. Serial No. 527,069. 15 Claims. (Cl. 198—38.)



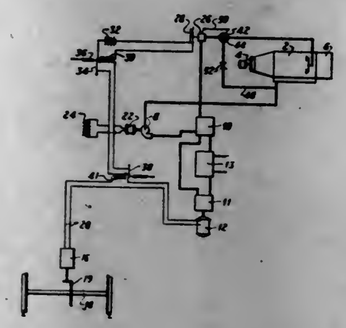
1. The combination of a conveyer, electrically operated means for deflecting an article therefrom, means for controlling said deflecting means comprising an electrical circuit, electric switches connected in series in said circuit and having actuating levers in position to be actuated solely by projections having a predetermined location on an article riding on said conveyer.

1,917,005. DISPLAY DEVICE. REUBEN W. ANDERSON and MICHAEL J. KANE, Minneapolis, Minn. Filed Dec. 11, 1931. Serial No. 580,342. 7 Claims. (Cl. 211—157.)



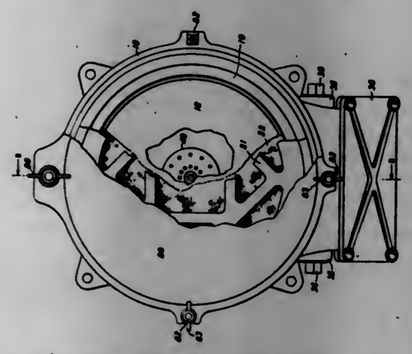
1. A display rack comprising an end to end series of wedge shaped merchandise support sections formed by an elongated connecting back strip and by folded, overlapped, and interlocked lateral extensions of the strip.

1,917,006. AIR CONDITIONING METHOD AND APPARATUS. SAMUEL M. ANDERSON, Sharon, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Mass., a Corporation of Massachusetts. Filed July 18, 1931. Serial No. 551,630. 19 Claims. (Cl. 62—117.)



16. A method of conditioning air which consists in circulating liquid through air cooling devices, intermittently cooling the liquid and by-passing it around the cooling devices when the cooling of the liquid begins and until the liquid is cooled to a predetermined temperature.

1,917,007. SOUND TRANSLATING DEVICE. GEORGE E. ATKINS, Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 10, 1932. Serial No. 591,961. 12 Claims. (Cl. 181—31.)

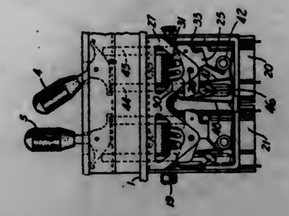


1. A sound translating device comprising a large direct-acting diaphragm, an actuating unit, a member connecting said diaphragm and said unit, and a stop member adjacent said diaphragm and extending outwardly from the point of attachment of said member and said diaphragm.

1,917,008. TIMING MECHANISM. WILLIAM O. BECK, Ridgefield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1930. Serial No. 448,508. 5 Claims. (Cl. 161—19.)

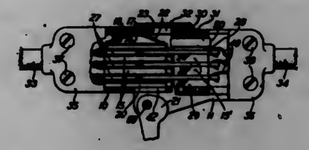
1. In combination, a driving member, a cradle pivoted to rock between two extreme positions, a rotatable shaft supported by the cradle and movable bodily by the rocking action thereof, a driven wheel secured to said shaft, a plunger for rocking said cradle into one of its extreme positions to bring said wheel into engagement with said driving member, a set of circuit controlling

contacts, a device on said shaft rotatable therewith to actuate said contacts when the shaft has rotated through a predetermined distance, a second plunger for rocking



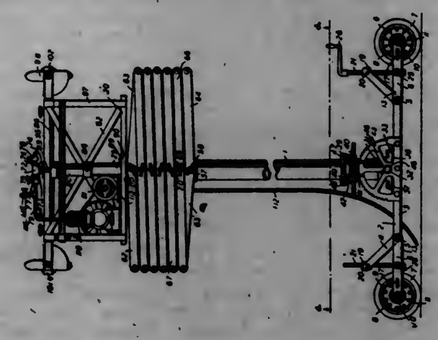
said cradle in the opposite direction to disengage said driven wheel, and means for restoring said shaft to its normal position.

1,917,009. ELECTRICAL CONNECTER. WALTER L. BETTS, Brooklyn, and ERNEST SORENY, New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 17, 1931. Serial No. 523,220. 8 Claims. (Cl. 173—328.)



1. In an electrical connecter, a pair of shells, a jack pile-up in one of said shells, a plug pile-up in the other shell for engaging said jacks with a predetermined contact pressure, a cam operable for increasing the contact pressure between said jacks and said plugs and means carried by one of said shells cooperating with said cam when in its operated position for interlocking said shells independently of the pressure applied between said jacks and said plugs.

1,917,010. EXTENSIBLE STAGE. FRED A. BIRD, Kansas City, Mo. Filed Aug. 1, 1930. Serial No. 472,288. 24 Claims. (Cl. 304—9.)

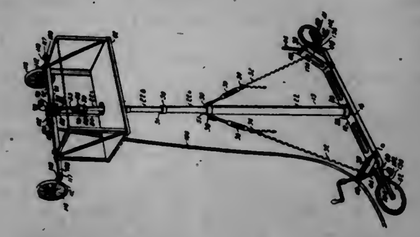


1. An extensible stage including a base, a plurality of sets of telescoping tubes mounted on the base, a platform mounted on the sets of tubes, and arms pivoted to said tubes and having outer ends connected with outer ends of adjacent ones of said arms to form lasy tongs for assuring equal movement of telescoping tubes.

13. In apparatus of the character described including an extensible mast, a frame mounted on the mast, a platform on the mast, means for delivering an air blast adjacent the platform, means including brackets mounted on the frame, a curtain on said brackets forming a chamber for a workman positioned on the platform, and means including a valved perforate pipe communicating with the air delivering means for moving air from said chamber.

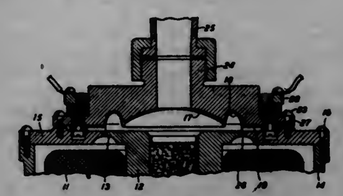
24. In apparatus of the character described, a support, a plurality of sets of telescoping tubes mounted on the support, a platform carried by the topmost tubes of the sets, collars on the ends of the tubes, means for connecting the collars of the respective tubes together whereby the tubes in each set operate in synchronism with the corresponding tubes in the other sets, and means for admitting a pressure medium to the sets of tubes to extend the tubes for raising the platform.

1,917,011. TELESCOPING STAGE. FRED A. BIRD, Kansas City, Mo. Filed July 6, 1931. Serial No. 548,853. 11 Claims. (Cl. 254—93.)



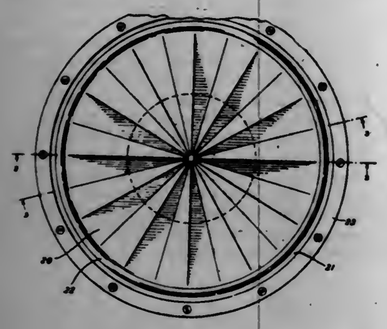
9. In a mast of the character described, an outer series of telescoping members, an inner series of telescoping members arranged within and having communication with the outer series of telescoping members, and means for admitting a pressure medium to one of said series of telescoping members to effect extension of the mast.

1,917,012. SOUND TRANSLATING DEVICE. DAVID G. BLATTNER, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 5, 1931. Serial No. 513,466. 16 Claims. (Cl. 179—115.5.)



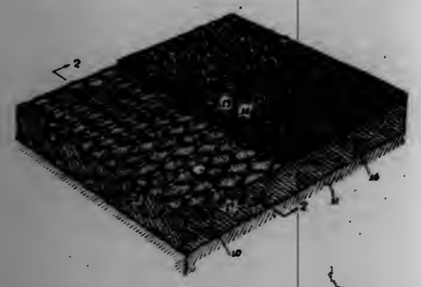
13. A sound translating device comprising a diaphragm, an air chamber adjacent said diaphragm, a horn acoustically coupled to said air chamber, and means including a coil for actuating said diaphragm, the mass and edge stiffness of said diaphragm and the stiffness of said air chamber being so proportioned that a uniform sound pressure is obtained on the axis of said horn between at least 100 and 7000 cycles.

1,917,013. SOUND TRANSLATING DEVICE. LEE G. BOSTWICK, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 27, 1930. Serial No. 505,068. 20 Claims. (Cl. 181—32.)



1. A sound translating device comprising a pleated diaphragm, a ring member affixed to said diaphragm intermediate its center and edge for reinforcing it, and actuating means attached to said ring member.

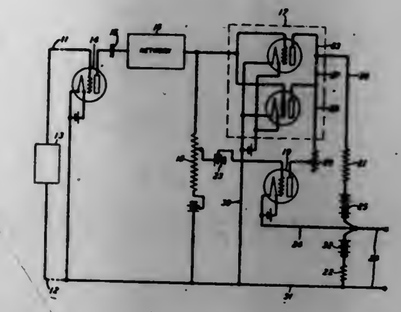
1,917,014. GOLF PLAYING SURFACE. GEORGE BOWES, St. Paul, Minn. Filed Oct. 22, 1930. Serial No. 490,430. 1 Claim. (Cl. 94—7.)



In a construction of the character described, a moisture filtering foundation consisting of disconnected particles, a metallic web spread over the surface of said foundation and consisting of a multiplicity of interconnected strips partially imbedded edgewise in the foundation and forming together therewith a multiplicity of pockets, a moisture filtering covering of disconnected cushioning particles poured into said pockets and over the web structure and packed to bind the covering particles together and to firmly imbed the upper marginal portions of said strips in the sub-structure of the covering, and to provide a firm playing surface which is secure against shifting movements in use and which may be readily repaired in areas where wear occurs.

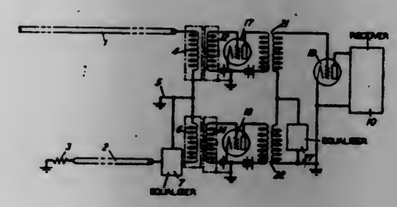
1,917,015. POWER AMPLIFIER. EVERETT T. BURTON, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 25, 1931. Serial No. 546,743. 5 Claims. (Cl. 179—171.)

1. An amplifier circuit, a space discharge device, a second space discharge device, said devices having curved amplification characteristics and being so arranged with respect to each other that the input voltage is impressed on the first device and the total input voltage or any part thereof is simultaneously impressed on said second device, an output circuit for each of said devices, the output circuits being so arranged with respect to each other that the currents in a common portion of the output circuits are superimposed on each other in such a manner



as to effect in a portion of the output circuit of the first device only, a characteristic having on opposite sides of its operating point, curves which are symmetrical but inversely disposed to each other.

1,917,016. CIRCUIT FOR REDUCING INTERFERENCE. EVERETT T. BURTON, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 10, 1932. Serial No. 591,962. 7 Claims. (Cl. 178—63.)

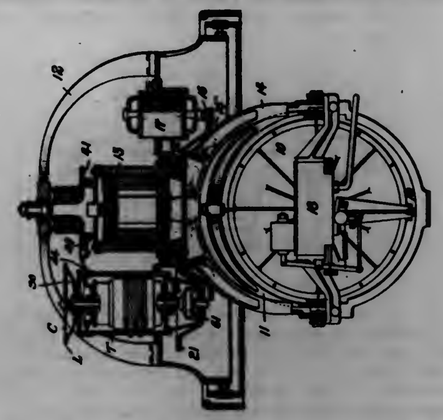


1. The combination of a main loaded submarine cable exposed to extraneous interference whereby signals as received over said cable are accompanied by interference currents also received over said cable, and a second cable conductor exposed to like interference and having transmission properties similar to those of said main cable, local earth connections for both cables at a receiving point, a coupling element included in each local earth connection, and a receiver differentially coupled to said coupling elements, said receiver having impressed on it signal currents principally through one of said coupling elements and the interference currents in opposed relation from both coupling elements, whereby the signals are received while the interference currents are reduced in said receiver.

1,917,017. GYROCOMPASS TRANSMISSION SYSTEM. JOSEPH L. CHANTEMERLE, New York, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 16, 1926. Serial No. 116,271. 10 Claims. (Cl. 177—351.)

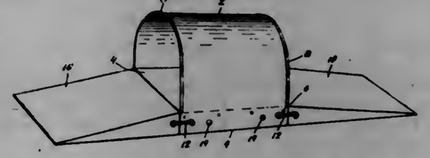
1. In combination, a gyroscopic compass, means for transmitting the indications of said compass including coarse and fine transmitters having a predetermined ratio

of movement with respect to said compass and to each other, means whereby said compass actuates said transmitters, a correction device also actuated from said com-



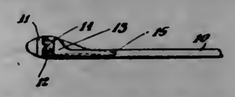
pass, and means for introducing corrections from said device into each of said transmitters in the same ratio as said first ratio of movement.

1,917,018. TUNNEL TOY. BARBARA CLARK, Boston, Mass. Filed Nov. 18, 1931. Serial No. 574,791. 2 Claims. (Cl. 272—57.)



1. A toy to simulate crawling comprising an open tunnel member of a size conveniently to accommodate a small child, engaging along two edges thereof a base member presenting a flat floor, and inclined approaches leading to the floor of the tunnel.

1,917,019. PILE WIRE SPOON, HOLDER, FOR TWO EDGE CUTTING BLADES. FRANZ DEHLER, New York, N. Y. Filed Apr. 11, 1932. Serial No. 604,487. 5 Claims. (Cl. 139—44.)



1. A spoon or holder for the cutters of pile wires comprising a slotted stem adapted to be attached to a pile wire, a means formed with said spoon to securely hold a double-edged blade inserted into the spool through the slotted stem thereof and pushed forward, a plate integral with said spoon cut away so as not to bear on the cutting edge of the blade to hold the blade in place and protecting the lower unused edge of the cutter blade in said spoon against damage.

1,917,020. COMPOSITE ARTICLE AND METHOD OF BONDING WITH RESIN SOLUTIONS. HARRY M. DENT, Buffalo, N. Y., assignor to General Plastics, Inc., North Tonawanda, N. Y. Filed May 12, 1932. Serial No. 610,943. 4 Claims. (Cl. 144—309.)

1. The method of producing bonded composite articles from wooden plies, which comprises coating at least one of the plies to be bonded with a dispersion comprising a resin and a liquid non-solvent for the resin, placing the wooden plies adjacent one another with the resin dispersion interposed therebetween, and subjecting the assem-



bled wooden plies and the bonding material to heat and pressure for a time sufficient to drive the liquid non-solvent out of the bond and produce a definite glue line of permanently set resin.

1,917,021. TYPEWRITING MACHINE. WILLIAM A. DOBSON, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 14, 1929. Serial No. 339,764. 9 Claims. (Cl. 197—82.)

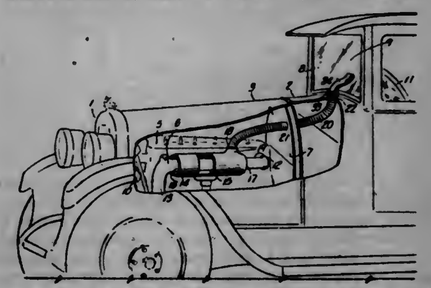


1. In a carriage-feeding device for typewriting machines, the combination with a carriage and means for moving the same, of a letter-spacing mechanism including a shaft rotated in one direction by the carriage, an escapement-wheel and flange on the shaft, a pair of ball-bearings of different diameters for the shaft, the smaller one bearing directly against the shaft, the larger one opposed to the smaller and bearing against the periphery of said flange, the side of the escapement-wheel bearing against the large ball-bearing and taking the endwise thrust of the shaft in one direction, a carriage-rack, a pinion loose on said shaft and wholly supported thereby, and connected by a pawl to said escapement-wheel, and an intermitting device controlling the mechanism for giving the carriage a step-by-step movement.

1,917,022. ELECTROCHEMICAL PROCESS FOR CLEANING METAL. THOMAS E. DUNN, Bridgeport, Conn., assignor to The Bullard Company, a Corporation of Connecticut. Filed July 28, 1932. Serial No. 625,539. 4 Claims. (Cl. 204—1.)

4. A process for removing organic dirt from metallic parts which consists in subjecting the parts as anodes to electrolytic action in an alkaline electrolyte containing phosphate and metallic ions of the group including lead, tin, zinc and cadmium which combine with oil or grease in the dirt to form a metallic soap.

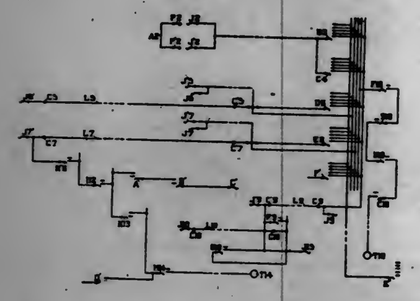
1,917,023. WINDSHIELD HEATER. ROLLO E. EVANS, Emporia, Kans. Filed Mar. 8, 1929, Serial No. 345,321. Renewed Dec. 5, 1932. 3 Claims. (Cl. 20—40.5.)



1. A windshield heater including a casing for conducting a heating medium toward the windshield of an auto-

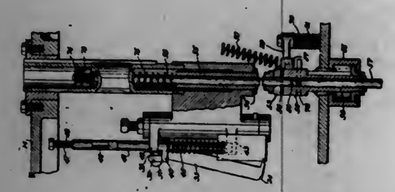
mobile and a nozzle having an open upturned delivery end for discharging said medium substantially tangentially to the windshield over a large area of the windshield relative to the opening of the nozzle and having a laterally presented opening for discharging said medium substantially right angularly to said windshield.

1,917,024. TELEPHONE SYSTEM. HERBERT M. FRIENDLY, Chicago, Ill.; Milton S. Friendly and Central Trust Company of Illinois, executors of said Herbert M. Friendly, deceased. Filed Oct. 30, 1922, Serial No. 597,933. Renewed Nov. 12, 1925. 73 Claims. (Cl. 179—27.)



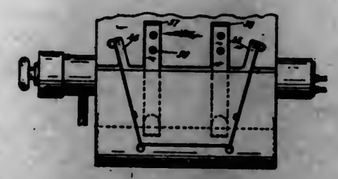
1. In a telephone system, a calling line and a called line, a train of switches for linking a connection from the calling to the called line, an impulse contact for directively operating the switches, a source of current, means in the last switch of the train for sustainingly applying signaling current to the called line under automatically applied control of the next antecedent switch thereto, means for disconnecting the applied signaling current consequent to a response on the called line, means responsive to the application of the said source of current to the calling line and also means responsive to the operation of the impulse contact to reinitiate and thereupon self-sustainingly apply the signaling current to the called line while maintaining the previously established connection.

1,917,025. CONTAINER CAPPING MACHINE. JOHN J. GAYNOR, Pittsburgh, Pa., assignor to Horix Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 10, 1931. Serial No. 507,890. 8 Claims. (Cl. 226—88.1.)



1. In a container capping mechanism, a reciprocable device for applying a cap to a container, a stationary abutment, and means for feeding a cap to said device including an arm for moving a cap into position to be assembled by said device with a container, and yieldable means engageable with said stationary abutment upon movement of said device away from cap applying position to actuate the arm.

1,917,026. CIGARETTE DISPENSING DEVICE. ALEXANDER GERTANNER, Bayside, N. Y., assignor to Automatic Lighter Corporation, Stamford, Conn., a Corporation of Delaware. Filed Sept. 22, 1926, Serial No. 137,113. Renewed May 28, 1929. 3 Claims. (Cl. 312—86.)

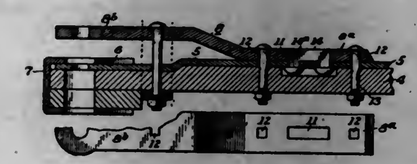


3. In a device of the class described, a container having delivery means at one end, and a receptacle adjacent said end, the receptacle having upward extending arms attached thereto at one side and the container having downward inclined recesses in one lower edge with extensions at their inner ends to receive said arms and hold the receptacle in place on the container.

1,917,027. PIPE JOINT COMPOUND. HARRY GOLDHAGEN, New York, and OSCAR H. CORNELIUS, Maspeth, N. Y. Filed July 27, 1932. Serial No. 625,059. 4 Claims. (Cl. 106—8.)

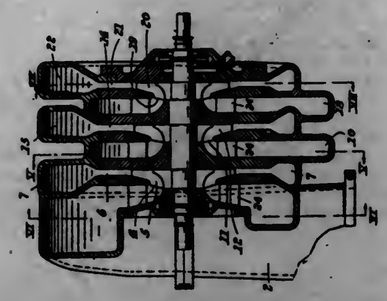
1. A pipe joint compound comprising flour, Portland cement, lamp black, talcum, and sea sand.

1,917,028. DRAWBAR CONSTRUCTION FOR MINE CARS AND THE LIKE. ALBERT GOLETZ, Crescent, Ohio, assignor to Phillips Mine and Mill Supply Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 23, 1929. Serial No. 415,935. 2 Claims. (Cl. 213—188.)



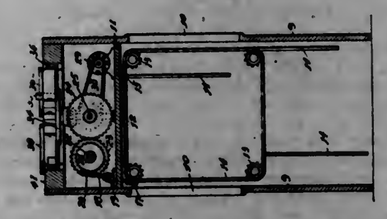
1. A mine car comprising a body having a bottom and a main drawbar extending along the bottom inside the car and projecting beyond the opposite ends thereof, a bumper on each end of the car and slidably embracing the end of the drawbar, an auxiliary drawbar having an upwardly bent outer end portion positioned over the projecting end portion of said main drawbar and having an inner end portion resting on top of the main drawbar inwardly from the bumper, and means spaced inwardly from the bumper connecting the auxiliary drawbar and the main drawbar, said means comprising spaced bolts and nuts passing loosely through the main and auxiliary drawbars and constituting clamping means for the main and auxiliary drawbars, and a cooperating key and slot arrangement in the main and auxiliary drawbars also positioned rearwardly of the bumper for transmitting stresses and strains from the auxiliary to the main drawbar, the relation of the bumper and drawbar being such that impacts on the bumper are not transmitted to the connecting means between the main and auxiliary drawbars.

1,917,029. MULTISTAGE ROTARY COMPRESSOR. PAUL E. GOOD, Riverton, N. J., assignor to Elliott Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed Mar. 14, 1931. Serial No. 522,704. 4 Claims. (Cl. 230—133.)



1. A device for increasing the pressure of fluids comprising initial, intermediate and final stages, each including an impeller chamber having an impeller therein, a discharge volute and an inlet volute for each of said intermediate stages, and a connection between the discharge volute of one of said intermediate stages and the inlet volute of the succeeding stage, successive cross sections taken along said volutes and connections having substantially the same shape, the dimensions thereof changing only slightly from one section to the next, and the center line of the path defined by the volutes and the connection changing its direction only gradually.

1,917,030. COMBINED ADVERTISING AND DISPLAY DEVICE. JAMES G. GRACEY, St. Louis, Mo. Filed June 9, 1932. Serial No. 616,289. 4 Claims. (Cl. 40—80.)



1. A device of the character described comprising a frame, a housing forming the upper part thereof, a rotatable Geneva wheel positioned in the housing, a turntable located in the housing and positioned eccentrically to the Geneva wheel, posts located on the turntable the same extending through slots formed in the Geneva wheel and by which the Geneva wheel is rotated, detachable discs eccentrically mounted on the Geneva wheel, a driving means for operating the turntable and dummies located on the discs and turntable posts, substantially as specified.

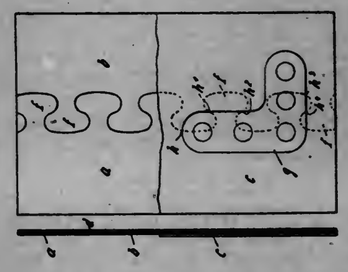
1,917,031. COMBUSTION APPARATUS. FRED A. HAMILTON, Albany, N. Y., assignor of one-half to Fitzsimmons & McAllister, Inc., Albany, N. Y., a Corporation of New York. Filed Aug. 26, 1931. Serial No. 559,509. 4 Claims. (Cl. 158—76.)

1. In combustion apparatus, an imperforate baffle plate provided with a substantially flat surface having a free edge, means for directing liquid fuel under pressure at an angle against said surface and adjacent to the free edge thereof whereby a spray of fuel is produced, and a



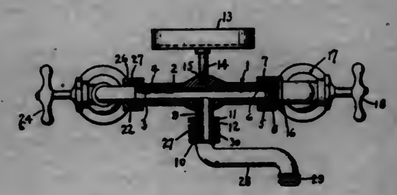
nozzle having its discharge end in advance of said baffle plate and positioned for projecting a jet of air against said spray.

1,917,032. PHOTOGRAPHIC PRINTING PAPER. MAX HEINRICH, Berlin-Pankow, Germany, assignor to Firm Graf Und Co., Verpackungs-Maschinen, Berlin, Germany. Filed July 10, 1931, Serial No. 549,866, and in Germany July 12, 1930. 1 Claim. (Cl. 95—8.)



As an article of manufacture, a photographic printing paper, especially for making copies of drawings, said paper consisting of a light-sensitive sheet, a metal foil backing fastened to the rear surface of said light sensitive sheet, said metal foil backing being composed of several pieces placed side by side and abutting with each other along wave-shaped edges, and a sheet of drawing paper fastened to the rear surface of said metal foil backing.

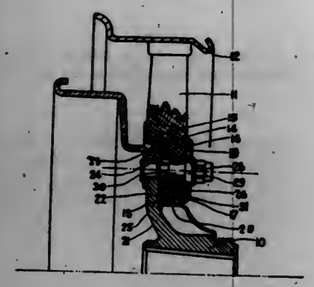
1,917,033. COMBINATION HOT AND COLD WATER CONNECTION. HOWARD P. HESS, Chester, N. Y. Filed Mar. 23, 1929. Serial No. 349,857. 1 Claim. (Cl. 137—111.)



A combination hot and cold water connection comprised of a pipe with threads and a counterbore at one end, a ring on the other end holding a swivelled nut, the center of said pipe provided with means for holding a swivelled tubular arm and a means for holding a soap

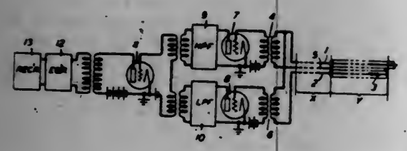
dish, said threaded end provided with a nut co-operating with said counterbore to receive and hold the end of a plain bib and the swivelled nut on the other end of said pipe adapted to hold the end of a hose bib.

1,917,034. DEMOUNTABLE SPOKED WHEEL. J. HAROLD HUNT, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 7, 1928. Serial No. 268,340. 3 Claims. (Cl. 301—9.)



1. A rigid spoked wheel comprising spokes having their inner ends axially inwardly recessed to form a seating face for attachment to a radial hub flange and provided with radially spaced annular seats adapted to form mounting seats for said wheel on said hub flange.

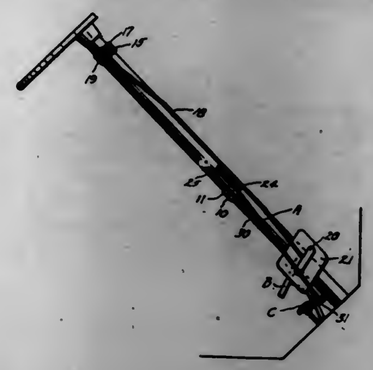
1,917,035. CIRCUIT FOR REDUCING INTERFERENCE. OLIVER B. JACOBS, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 25, 1932. Serial No. 595,050. 7 Claims. (Cl. 179—1.)



1. In a receiving system, a main signaling conductor exposed to interference, an auxiliary conductor exposed to similar interference, a receiver, separate receiver coupling circuits for said conductors, one including said main conductor and auxiliary conductor in series whereby the interference energy received from both conductors is balanced out in the receiver, and the other circuit of lower resistance noise, said receiver connected to both of said coupling circuits, and filter means for impressing only relatively high frequency currents from said circuit of lower resistance noise on said receiver whereby the resistance noise is kept low in the upper range of signal frequencies.

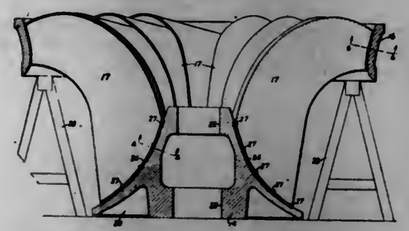
1,917,036. FOOT THROTTLE FOR MOTOR VEHICLES. LOUIS JACOBY, Dallas, Tex. Filed Aug. 25, 1932. Serial No. 630,329. 17 Claims. (Cl. 74—31.)

1. In an auxiliary throttle attachment for motor vehicles, a support for attachment to the vehicle, a lever pivoted on the support above the brake pedal, said lever extending downward alongside and at an angle to the plane of said pedal, a gearing mounted on the support,



a connection between the lever and the gearing, and means actuated by the gearing for connection with the foot throttle of a motor vehicle for operating the same.

1,917,037. MANUFACTURE OF FRANCIS RUNNERS FOR HYDRAULIC TURBINES. GEORGE A. JESSOP and DANIEL C. DE VINE, York, Pa., assignors to S. Morgan Smith Company, York, Pa., a Corporation of Pennsylvania. Filed Nov. 28, 1931. Serial No. 577,772. 3 Claims. (Cl. 29—156.8.)



1. In the manufacture of Francis runners for hydraulic turbines, the method which comprises first separately forming and finishing the hub, the shroud ring, and the buckets, the hub being formed with a series of grooves therein, one for each bucket, the side walls of the grooves being inclined, the buckets being formed from sheet metal, the edges of the buckets being bevelled, then assembling the buckets on the hub with the edges of the buckets arranged in spaced relation to the grooves in the hub, then tacking the buckets to the hub, then positioning the shroud ring and securing the buckets thereto by means of fused metal arranged in smooth fillets along the opposite faces of the buckets, and then securing the buckets to the hub by forming fillets of fused metal in the grooves in the hub and along the opposite sides of the buckets.

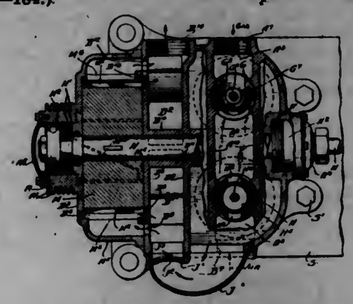
1,917,038. PLASTIC PRODUCT AND PROCESS OF PRODUCING SAME. LEMUEL B. JONES, Petersburg, Va. Substitute for application Serial No. 51,509, filed Aug. 20, 1925. This application filed June 19, 1929. Serial No. 372,227. 11 Claims. (Cl. 260—2.)

1. A process of producing a plastic product, comprising, heating a fibrous carbohydrate-containing vegetable material with a phenol and a mineral agent, with a greater proportion of the vegetable material than of the phenol, and continuing the treatment until a sticky, gummy, only partially disintegrated mass is produced, finely dividing such product, and removing substantially all water-soluble substances and uncombined acids therefrom.

1,917,039. METHOD OF CLEANING MOLDS. PAUL KLEIN, Budapest, Hungary, and ANDREW SZEGVARI, Akron, Ohio, assignors to American Anode Inc., Akron, Ohio. Filed Apr. 13, 1927, Serial No. 183,607, and in Hungary Apr. 15, 1926. 6 Claims. (Cl. 204—1.)

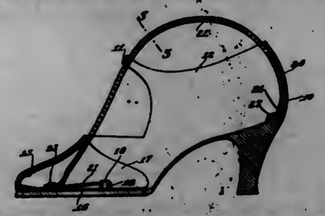
1. The method of cleaning a porous electrodepositing mold which comprises, mechanically removing solid particles from the pores of the mold by forcing a fluid therethrough, immersing the mold in an electrolytic solution, and passing an electric current therethrough in a direction opposite to that used in the electrodeposition.

1,917,040. MIXING AND COMPRESSING MACHINE. HENRY W. LE BOUTILLIER, Drexel Hill, and FRED HESS, Philadelphia, Pa., assignors to The Selas Company, Philadelphia, Pa., a Corporation of New York. Filed Jan. 22, 1929. Serial No. 334,335. 20 Claims. (Cl. 48—184.)



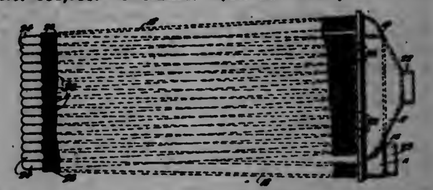
1. Apparatus for mixing a plurality of gases in a predetermined volumetric ratio and at the same pressure and compressing the same which comprises a gas supply conduit in which the gas pressure is variable and normally above a predetermined pressure, means for admitting gas from said conduit and reducing its pressure to said predetermined pressure, a second gas supply conduit containing another gas at said predetermined pressure, means for mixing said gases in a predetermined volumetric ratio and at said predetermined pressure, a compressor unit arranged to receive said gases from said mixing means, means associated with said gas mixing means for regulating the amounts of gas admitted to the latter directly in accordance with the demand on said compressor unit, and means for maintaining said volumetric ratio constant irrespective of variations in demand.

1,917,041. SHOE FORM. ALFRED G. LEGGE, Brockton, Mass. Filed Mar. 5, 1932. Serial No. 596,968. 4 Claims. (Cl. 12—128.2.)



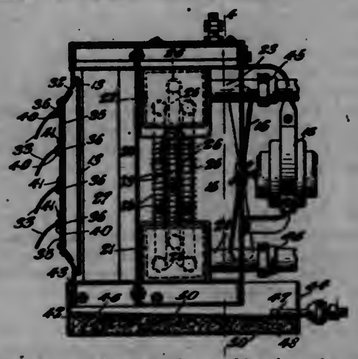
1. In a shoe form, the combination of a flexible toe part having an inwardly extending flange at the bottom thereof, a toggle connecting the opposite side portions of said flange, a member operatively connected with said toggle and extending rearwardly from within said toe part, said member being flexible and of such length as to permit its free end portion to engage substantially from the top to the bottom of the heel portion of the upper of a shoe in which the form is placed whereby the intermediate portion of said member is caused to bulge upwardly and forwardly to engage a cross strap of the shoe.

1,917,042. HEATING COIL. ALEXANDER THORNTON LEWIS and DONALD E. FRENCH, Merion, Pa., assignors, by mesne assignments, to Carrier Research Corporation, Newark, N. J., a Corporation of New Jersey. Original application filed May 9, 1928, Serial No. 280,458. Divided and this application filed Jan. 18, 1929. Serial No. 333,399. 6 Claims. (Cl. 257—247.)



1. A new article of manufacture comprising a heating coil formed of two headers each including a metal plate, a tube having its ends terminating respectively in said header plates and formed of material having a lower fusing point than the metal of said plates, and a bonding material having a fusing point approximately that of the metal of said tubes integrally uniting the tube ends and plates in fused relation.

1,917,043. COOLING UNIT. THORNTON LEWIS, Cynwyd, Pa., assignor, by mesne assignments, to Carrier Research Corporation, Newark, N. J., a Corporation of New Jersey. Filed July 28, 1930. Serial No. 471,179. 6 Claims. (Cl. 62—103.)

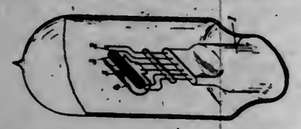


5. In a heat exchanger, the combination of a casing, a cooling coil in said casing, means to circulate air through said coil and casing, a receptacle for collecting drip from said casing and said coil, a false bottom in said receptacle, and an insulating material between said false bottom and the real bottom thereof.

1,917,044. PROCESS FOR MANUFACTURING HIGHLY EMISSIVE CATHODES. BERNHARD LOEWE, Berlin, Germany. Filed Feb. 26, 1929, Serial No. 342,930, and in Germany Feb. 28, 1928. 6 Claims. (Cl. 250—27.5.)

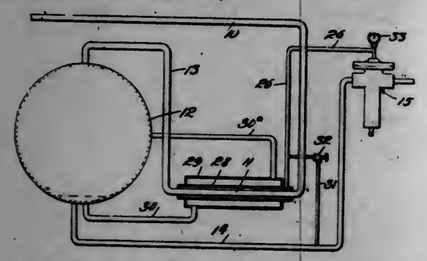
1. A method of producing a highly emissive cathode for electron emission purposes, comprising the steps of

arranging a refractory filament in a vacuum, placing adjacent thereto a mixture of an earth alkaline oxide and a reducing agent, the heat of reaction of this mix-



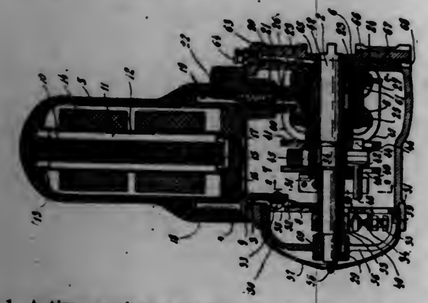
ture being small when reacting, and heating said mixture to cause the earth alkaline metal to be liberated and vaporized onto the filament to form a thin earth alkaline metal layer on said filament.

1,917,045. APPARATUS FOR CONTROLLING THE LEVEL OF LIQUIDS. HENRY H. MARSHALL, Highland Park, N. J., assignor, by mesne assignments, to Carrier Research Corporation, Newark, N. J., a Corporation of New Jersey. Filed May 8, 1930. Serial No. 450,653. 6 Claims. (Cl. 62—126.)



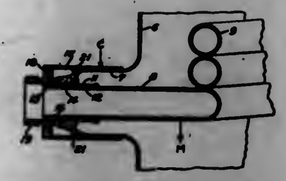
1. In a refrigerating system, the combination with a condenser, a conduit to withdraw condensed liquid refrigerant from said condenser and a thermostatic valve controlled by a diaphragm and controlling such withdrawal of liquid refrigerant, of a conduit for supplying refrigerant vapor to said condenser and having a horizontal portion at a predetermined level for the maintenance of liquid level in said condenser, a jacket forming thermal chamber surrounding such vapor supplying conduit and connected with said valve at one side of said diaphragm to open said valve upon decrease of pressure in said thermal chamber and to close said valve upon increase in pressure, said jacket around said thermal chamber being connected at its lower part with the liquid containing part of the condenser and at its upper part with the vapor containing part of the condenser.

1,917,046. IGNITION TIMER. JOHN F. MARTIN, Springfield, Mass., assignor to United American Bosch Corporation, Springfield, Mass., a Corporation of New York. Filed Aug. 27, 1932. Serial No. 630,664. 15 Claims. (Cl. 123—148.)



1. A timer casing adapted to be secured to the frame of an internal combustion engine to control the ignition circuits, said casing having an operating shaft therein, a rotor on the shaft at the rear end thereof, a circuit breaker operated by the shaft at the front end thereof and a governor for the circuit breaker between same and said rotor.

1,917,047. GLASS TO METAL CONNECTION. FREDERICK S. MCCULLOUGH, Edgewood, Pa., assignor to The Union National Bank of Pittsburgh, Pittsburgh, Pa. Filed Apr. 8, 1929. Serial No. 353,397. 4 Claims. (Cl. 250—27.5.)



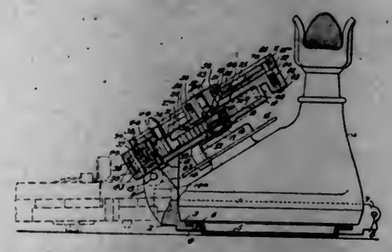
1. In a device of the class described comprising a glass body and a metal pipe passing through the body and forming a continuation of a tubular electrode, said body having an extension thereon through which the pipe passes, a flexible sleeve on the pipe fused to the extension exteriorly of the confines of the glass body, and a rigid member surrounding the pipe tightly secured to the pipe outside the body and contacting with said extension of the body for transmitting moments of stress from the pipe to the body.

1,917,048. TELLTALE MEANS. THOMAS MIDGLEY, JR., Worthington, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Oct. 30, 1931. Serial No. 572,206. 1 Claim. (Cl. 116—114.)



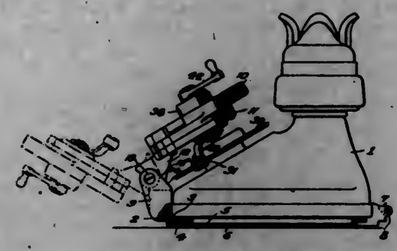
A frozen food package comprising a container, a wrapper of transparent material enclosing at least a portion of said container, and a visible character formed of frozen material located between said transparent material and said container, said frozen material being adapted to melt and to permanently change in form when the temperature of the package rises to the temperature below which it is desired to maintain the frozen food.

1,917,049. DIAL OPERATING MECHANISM. LOUIS H. MORIN, New York, N. Y. Filed Jan. 15, 1932. Serial No. 586,901. 26 Claims. (Cl. 179—90.)



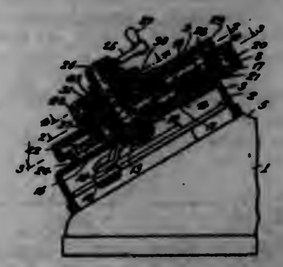
1. A telephone dialing device for selectively actuating the dial of an automatic telephone comprising a dial actuating means for imparting movement to the telephone dial, means for operating said actuating member, and a translating element between said actuating means and operating member for converting movement of the operating member into successive, predetermined movements of the actuating means to progressively dial the items of a particular call number.

1,917,050. DIALING DEVICE. LOUIS H. MORIN, New York, N. Y. Filed Jan. 15, 1932. Serial No. 586,902. 16 Claims. (Cl. 179—90.)



1. A telephone dialing device for selectively actuating the dial of an automatic telephone comprising a dial actuating member for imparting movement to the telephone dial, means for operating said actuating member, and a translating element for selectively limiting successive movements of the operating means to progressively dial the items of a telephone call number.

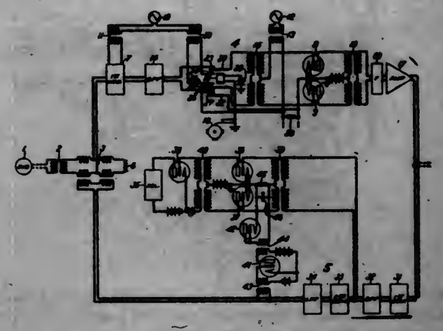
1,917,051. DIALING DEVICE. LOUIS H. MORIN, New York, N. Y. Filed Jan. 15, 1932. Serial No. 586,903. 12 Claims. (Cl. 179—90.)



1. A telephone dialing device for selectively actuating the dial of an automatic telephone comprising dial operating means connectable to the dial of a telephone, and translating means including a series of controls shiftable upon each actuation of the dial transversely of the operating means into position to selectively control movements of the operating member.

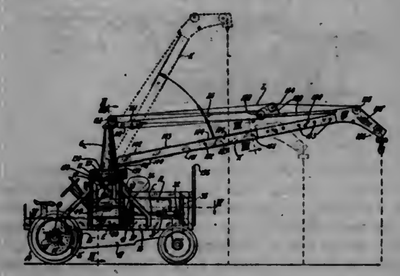
1,917,052. POWER LINE CARRIER CURRENT SYSTEM. CHARLES N. NEBEL, Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 10, 1929. Serial No. 384,878. 15 Claims. (Cl. 179—2.5.)

1. In a power-line carrier-current signal system, a high-tension power line, a plurality of signal stations connected to said power line, means for communicating in opposite directions between stations by carrier current of one frequency modulated with voice frequency currents, control means for selectively calling a station by transmitting code signals of said carrier current free from modulation with voice frequency currents, and means at



said stations responsive to the current employed for communication between stations for preventing operation of said control means during communication between stations.

1,917,053. PORTABLE CRANE. NELS PETER NELSON, Passaic, and FREDERIC WILTON JAMES, Belleville, N. J., assignors to N. P. Nelson Iron Works, Passaic, N. J., a Corporation of New York. Filed Mar. 21, 1931. Serial No. 524,296. 11 Claims. (Cl. 212—59.)

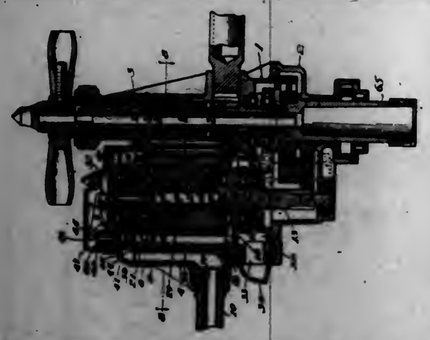


1. A crane mechanism comprising a framework, a hoisting drum, a topping drum, a hollow mast rotatably supported on said framework, a rigidly inclosed reversing mechanism for operating said topping drum, a rigidly enclosed mechanism for operating said hoisting drum, means for removably attaching said enclosed mechanisms to said framework and flexible means for removably connecting said mechanisms to the respective drums.

1,917,054. ROTARY MOTOR. REINHOLD A. NOBLING, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 11, 1929. Serial No. 406,271. 8 Claims. (Cl. 121—84.)

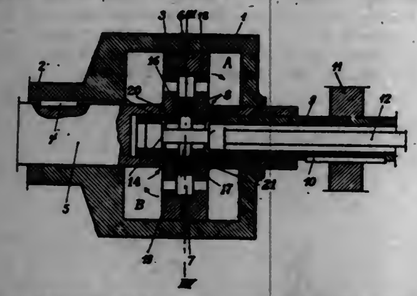
1. In a fluid actuated rotary motor, inner and outer casings spaced apart to provide an exhaust chamber between them, a rotor within the inner casing, piston elements carried by said rotor and engageable with the inner surface of the inner casing, plates closing the ends of the inner casing, inlet ports in said plates for supplying motive fluid to the rear sides of the blades on one

side of the rotor, said inner casing having exhaust ports on the opposite side of the rotor and opening into the exhaust chamber between the casings, said inner casing



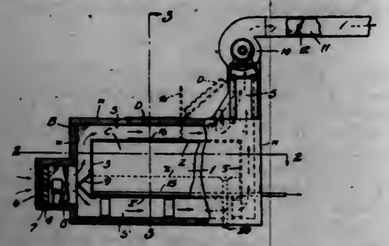
having an exterior radial lug on one side, and a passageway in said lug for connecting the inlet ports of the plates together across the exhaust chamber.

1,917,055. HYDRAULIC SERVO MOTOR. GUSTAV OPLUSSTIL, Brunn, Czechoslovakia, assignor to Firm Ignaz Storek, Brunn, Czechoslovakia. Filed Dec. 24, 1930, Serial No. 504,474, and in Czechoslovakia Feb. 21, 1930. 7 Claims. (Cl. 60—52.)



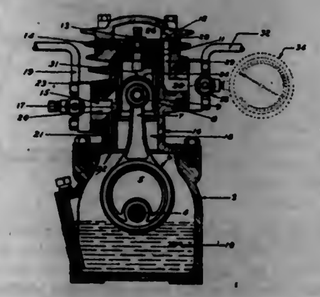
1. A hydraulic servo-motor, comprising a rotating casing, a piston rotating with the casing and movable therein under the action of compressed fluid, means for transmitting the force of the piston to the outside of the casing, a control device for controlling the supply of fluid to the sides of the piston, a pump device built into the rotating servo-motor and means for driving the pump device, distinct from those which transmit the force of the piston.

1,917,056. REFRIGERATOR AND COOLING APPARATUS. JOHN B. PECK, Richmond Heights, Mo., assignor to Joseph M. Brown, St. Louis, Mo., and Margaret Peck, Richmond Heights, Mo. Filed July 13, 1932. Serial No. 622,301. 2 Claims. (Cl. 62—131.)



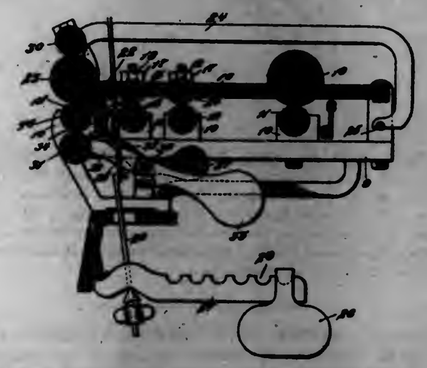
1. A refrigerator comprising a box having inner walls spaced from the box walls to provide an ice chamber and an air circulating space around said ice chamber, said box having an air inlet and an air outlet, air moving devices connected to the inlet and outlet respectively, means for dividing the air flow as it enters said box whereby part will pass over the ice chamber and part under the ice chamber, a food storage chest within the ice chamber, said chest and box having one wall in common and a door in said wall, and means for draining the ice chamber.

1,917,057. COMPRESSOR. MAURICE H. PENDERGAST, Utica, N. Y., assignor to Brunner Manufacturing Company, Utica, N. Y., a Corporation of New York. Filed June 1, 1932. Serial No. 614,791. 6 Claims. (Cl. 230—190.)



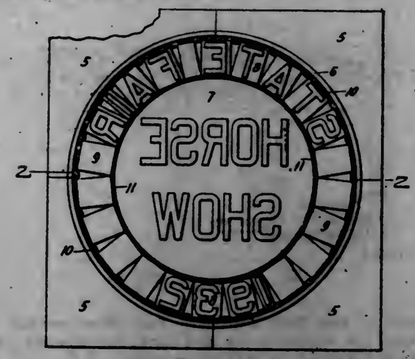
1. In a compressor the combination of hollow casing members forming a vertical compression cylinder and, communicating therewith below, an oil chamber, and having an outlet port leading from the upper end of the cylinder and an inlet port to the cylinder, a passage leading to said inlet, a by-pass extending from said passage to the oil chamber, a check valve controlling said by-pass and tensioned to open towards said oil chamber on upward movement of the piston, a check valve on the outlet port, a rotatable shaft horisontally mounted in said chamber, an eccentric on said shaft, a piston mounted in the cylinder and connected to said eccentric and a check valve on the piston.

1,917,058. SPINNING MACHINE. FERNAND PIRON, Woonsocket, R. I. Filed June 21, 1932. Serial No. 618,453. 8 Claims. (Cl. 19—130.)



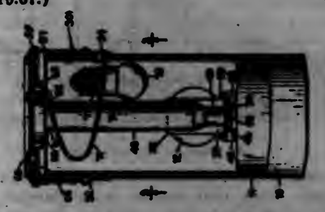
1. In a spinning machine, a plurality of pairs of rolls between which the yarn travels, including a pair of front rolls and a pair of rolls back of the front rolls, an elongated member supported between said pairs of rolls and having a notch in its upper edge, a yarn guide in said notch with portions engaging the front and rear surfaces of said member permitting it to slide along said member.

1,917,059. PRINTING DIE. ROLLIN B. POWERS, Ashley, Ohio. Filed Dec. 28, 1932. Serial No. 648,621. 9 Claims. (Cl. 101—28.)



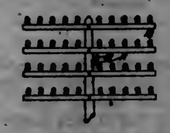
1. In an embossing die, a die block having an opening therein and comprising a plurality of relatively movable parts, a center block arranged within said opening and spaced from the wall thereof, the parts of said die block being movable toward and from said center block and a plurality of removable type members arranged in the space between said center block and the wall of said opening, and adapted to be clamped therein by the inward movement of the parts of said die block.

1,917,060. FLASH LIGHT. GOODRICH B. PRATT, Grantwood, N. J., assignor to Bond Electric Corporation, Jersey City, N. J., a Corporation of Delaware. Filed Jan. 27, 1931. Serial No. 511,496. 2 Claims. (Cl. 240—10.67.)



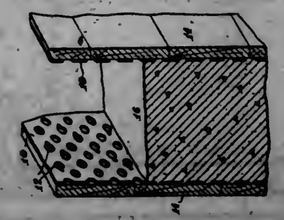
1. In a flashlight having a casing, a removable cap therefor, a substantially axially disposed rod carried by the cap within the casing, in combination, a spare lamp carrier comprising a ribbon of resilient metal bent into substantially U-shaped form, a hole formed in each arm of the ribbon through which the axial rod extends whereby remote portions of the edges of the holes are urged into yielding engagement with the rod by the resiliency of the metal, one arm of said ribbon being formed with a third hole between the first named hole and the end of the arm whereof the edge of the hole is helically deformed to receive the threaded base of a lamp.

1,917,061. COMPOSITE TRANSMISSION SYSTEM. DONALD A. QUARLES, Englewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 30, 1929. Serial No. 351,303. 15 Claims. (Cl. 179—2.5.)



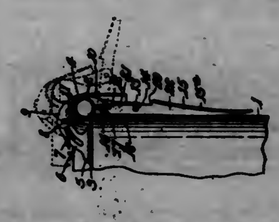
1. A wave transmission system comprising a conductor forming one side of a transmission line and a plurality of conductors in parallel forming the return, said latter conductors surrounding said one conductor symmetrically in space and serving also for other circuits.

1,917,062. CONCRETE WALL CONSTRUCTION. FRANK A. REINHARD, Norton, Mass., assignor to Lawrie L. Witter, Boston, Mass. Filed Sept. 10, 1930. Serial No. 480,932. 4 Claims. (Cl. 25—122.)



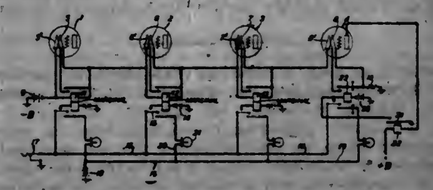
1. In a mould for forming a cementitious wall with a bonding surface including undercut projections for retaining plaster or the like, a flat supporting form, a lining thereof comprising a flat mat having cement receiving holes therethrough and the walls of which are shaped to form said undercut projections, the mat being so resiliently flexible that it may be stripped from the set wall without injury.

1,917,063. SHEET METAL CONTAINER. CHARLES E. ROLLASON, Wheeling, W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed May 16, 1931. Serial No. 537,885. 10 Claims. (Cl. 220—38.)



7. In combination, a container, a cover therefor, a hinge member on said cover, a lever pivotally connected to the container, a cover clamp pivotally connected to said lever and said member, and a stop on said lever for engaging said clamp when the cover is removed from the container.

1,917,064. VACUUM TUBE CIRCUITS. HARALD I. ROMNES, Upper Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 16, 1931. Serial No. 522,932. 6 Claims. (Cl. 250—27.)



1. In combination, a plurality of space discharge devices each of said devices equipped with a main filament and an auxiliary filament, a relay associated with each of said devices having a winding shunted around a portion of the filament current circuit of said devices, and adapted to

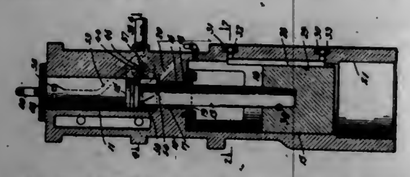
operate upon change of current flow in said winding, and contacts actuated by the operation of said relay adapted to close the circuit of said auxiliary filament.

1,917,065. APPARATUS FOR DYEING OR OTHERWISE TREATING FABRICS. ETHELBERT A. RUSDEN, Nayatt, R. I., assignor to The Textile-Finishing Machinery Company, a Corporation of Rhode Island. Filed Oct. 7, 1930. Serial No. 486,941. 3 Claims. (Cl. 8—19.)



1. An apparatus for treating textile material, comprising a stack for receiving a pile of cloth, a header at the upper end thereof of a size larger than said stack, a liquid-containing chamber, a curved chute communicating with said stack and located in said chamber, means for withdrawing the treating liquor from said chamber and discharging it on the work in said header, and an overflow conduit between said header and chamber.

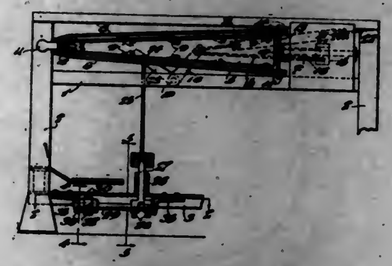
1,917,066. PILE HAMMER. MAX SCHALSCHA, Summit, N. J. Filed Apr. 2, 1929. Serial No. 351,881. 8 Claims. (Cl. 61—76.)



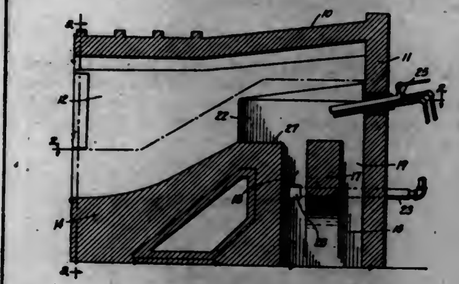
1. In a pile hammer a one piece casting having aligned power and ram cylinders, a piston in one cylinder, a ram in the other, a piston rod connecting the piston and the ram, an integral intervening partition between said cylinders and bored to receive said piston rod, the thickness of the partition being substantially greater than that of the piston rod, removable means disposed on and projecting inwardly from the inner face of the ram cylinder, said ram having a groove to receive said means to guide the ram and prevent turning thereof during reciprocation thereof, an anvil plate disposed within the lower end of the ram cylinder having a cup shaped outer face, means for supporting the anvil plate within the cylinder while permitting slight reciprocation thereof to prevent turning, said anvil plate having a contact portion adjacent the ram.

1,917,067. STOCKING INSPECTING DEVICE. AUGUST C. SCHOEN, Lansdale, Pa. Filed Oct. 20, 1931. Serial No. 569,903. 6 Claims. (Cl. 223—19.)

1. A stocking inspecting device comprising an outer expansible frame, an inner actuating member operatively connected to said outer frame, a bell crank lever operatively connected to said actuating member, an operating arm connected to one link of said bell crank lever and to a foot pedal, a shaft to which said foot pedal is keyed, a second foot pedal loose on said shaft, and a dog fast on said shaft and registering with the underside of said second foot pedal, whereby the depression of said second foot pedal serves partly to depress said first mentioned foot pedal and partly to expand said outer frame by partial movement of said actuating member, the subsequent depression of said first mentioned foot pedal serving to complete the movement of said actuating member and resultant expansion of said outer frame.

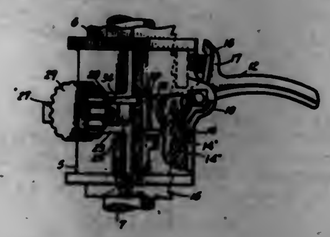


1,917,068. FURNACE. THOMAS T. SCOTT, Fairmount, Mo., assignor to Sheffield Steel Corporation, Kansas City, Mo., a Corporation of Delaware. Filed Nov. 18, 1930. Serial No. 495,440. 11 Claims. (Cl. 158—1.)



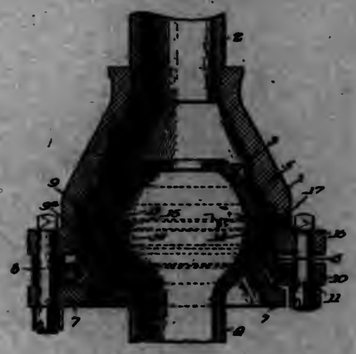
1. In a combined oil and gas burning furnace, a hearth, an oil burner above said hearth, an air passage leading to said oil burner, a partition in said air passage dividing said air passage into two parts, and a gas inlet in one of said parts.

1,917,069. DRILL MOUNTING. VICTOR L. SCOTT, Ottumwa, Iowa. Filed June 16, 1930. Serial No. 461,507. 2 Claims. (Cl. 255—51.)



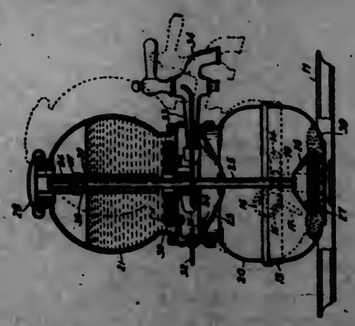
1. A drill mounting for drilling machines comprising a bracket member formed with a drill disk receiving socket, a pivoted and sliding latch member mounted opposite the receiving end of said socket for clamping engagement with the disk, a clamping screw carried by one end of said latch member for actuating the same into latching position, and a movable abutment element carried by said bracket member in position for engagement with one end of said screw.

1,917,070. BALL JOINT LUBRICATOR. JOHN C. SHREEVE, Joliet, Ill. Filed Mar. 17, 1932. Serial No. 599,409. 1 Claim. (Cl. 285—94.)



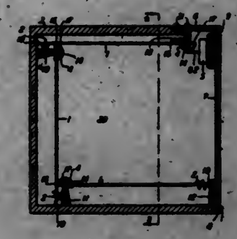
In a ball joint for conduits, the combination of a shell adapted to communicate with one conduit member, a ball adapted to communicate with another conduit member, a built up column of packing occupying the space between said ball and said shell and comprising substantially rigid packing rings each having a spherical surface engaging the corresponding surface on opposite sides of a great circle of the ball, a substantially rigid lubricating ring located between and in contact with the packing rings, and engaging a great circle of the ball and an adjustable packing flange adapted to apply pressure to said column of packing with the pressure distributed equally throughout substantially the width of the column; whereby a leak proof fit is maintained between the spherical surfaces on the packing rings and the ball on opposite sides of the lubricating ring.

1,917,071. APPARATUS FOR MAKING COFFEE. JOHN E. SMITH, Plainfield, N. J. Filed May 1, 1930. Serial No. 448,833. 8 Claims. (Cl. 219—44.)



1. In an apparatus of the character described, a pair of receptacles, a siphon connecting said receptacles, one of the receptacles being normally sealed, means for supplying heat to the sealed receptacle, a leg of the siphon extending into and opening near the bottom of the sealed receptacle, said leg having an orifice therein opening into the upper part of the sealed receptacle, a support on which the receptacles are mounted to oscillate, and means controlled by the position of the receptacles for turning said heat on and off.

1,917,072. ACOUSTIC DEVICE. EDWIN H. SMYTHE, Evanston, Ill., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed July 15, 1930. Serial No. 468,101. 23 Claims. (Cl. 181—32.)

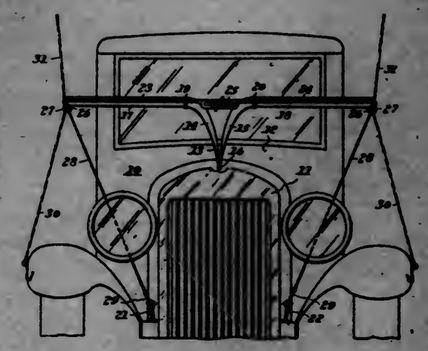


1. An elongated direct acting sound radiator comprising a plurality of connected angularly disposed portions under different degrees of tension.

1,917,073. METHOD OF STABILIZING CHLORINATED ALIPHATIC HYDROCARBONS. LEROY C. STEWART and LEE DU PAGE, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed June 22, 1932. Serial No. 618,693. 14 Claims. (Cl. 23—250.)

1. A composition of matter comprising a chlorinated aliphatic hydrocarbon and a relatively small amount of a mercaptan.

1,917,074. SUPPORT FOR AUTOMOBILE HOODS. KARL D. STORCH, Pittsburgh, Pa. Filed Dec. 9, 1931. Serial No. 579,977. 4 Claims. (Cl. 280—150.)

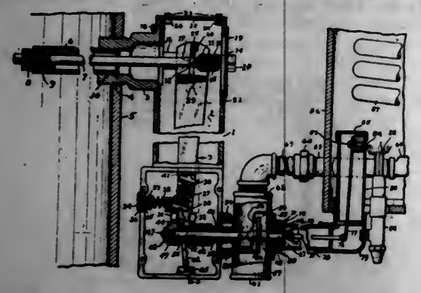


2. A device for supporting the side and top portions of a motor car hood in uplifted, outstretched position comprising a pair of hook members for removably overlying the outstretched hood and engaging the lower edges of the side portions of the hood, a connection between said members, and means for bracing the hood in its uplifted position.

1,917,075. GAS BURNER CONTROL. EDMUND J. TE PAS, Lakewood, Ohio, assignor to The Patrol Valve Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 21, 1928. Serial No. 271,801. 15 Claims. (Cl. 236—21.)

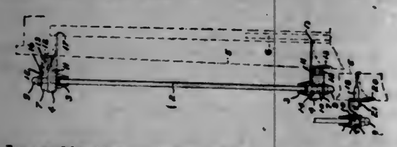
2. A thermostatically controlled valve comprising, a valve body having a valve port formed therein, a valve member cooperating with said valve port, a pair of valve

stems connected to the opposite sides of said valve member, thermostatic means directly connected to one of said valve stems, and thermostatic means independent



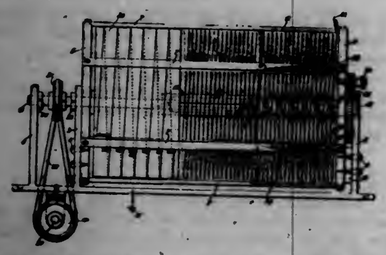
of said first named thermostatic means adapted to engage the other of said valve stems to move said valve member to its closed position.

1,917,076. DEFLECTOR SHIELD. JOEL R. THORP, West Allis, Wis., assignor, by mesne assignments, to The Fulton Company, West Allis, Wis., a Corporation of Wisconsin. Filed Nov. 2, 1929. Serial No. 404,260. 5 Claims. (Cl. 296—84.)



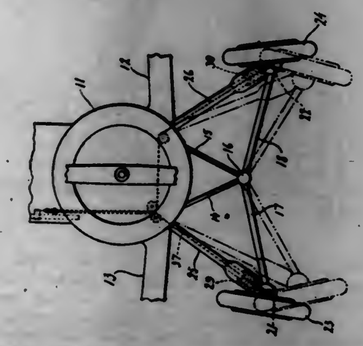
1. In combination, a frame having an opening bounded by upper and lower reveals, a deflector shield having upper and lower coaxial vertical pivots disposed adjacent to said frame reveals, the forward and rear edges of said shield being swingable toward and away from said frame opening about the axis of said pivots, a supporting bracket extending laterally from each of said pivots toward the adjacent reveal, a connection between each of said brackets and the adjacent pivot formed to permit both rotation of the pivot about said axis and lateral angular displacement thereof relative to its supporting bracket about a point on said axis and each of said brackets having a clamping surface disposed remote from said axis and engageable with a side surface of the adjacent reveal, a plate cooperable with each of said brackets and having a clamping surface engageable with the opposite side surface of the adjacent reveal, and means for clamping the reveals between said surfaces.

1,917,077. RADIO TUNING DEVICE. GEORGE WALD, Belleville, Ill. Filed Apr. 30, 1930. Serial No. 448,462. 4 Claims. (Cl. 175—41.5.)



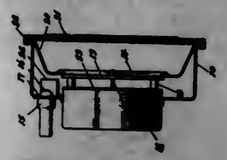
2. A condenser comprising a plurality of helical stator plates in intertwined relationship, a plurality of helical rotor plates in intertwined relationship carried by a common supporting element, each of said rotor plates being adapted to cooperate with a stator plate, and means for simultaneously rotating and longitudinally moving said supporting member whereby each of said rotor plates will be simultaneously moved into cooperation with a stator plate.

1,917,078. LANDING GEAR FOR AIRCRAFT. THEODORE P. WRIGHT, Port Washington, and ROBERT R. OSBORN, Garden City, N. Y., assignors to Curtiss Aeroplane & Motor Company, Inc., a Corporation of New York. Filed Mar. 19, 1930. Serial No. 436,938. 9 Claims. (Cl. 244—2.)



2. In an airplane shock absorbing strut, a cylinder, a piston adapted to slide within said cylinder, resilient rubber rings surrounding said cylinder, a bracket on said piston adapted to either engage or disengage said rings, and releasable means adapted to hold said bracket adjacent said rings.

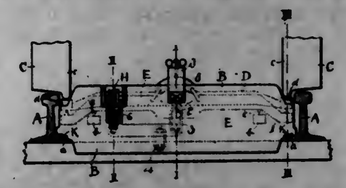
1,917,079. INSTRUMENT PANEL. CLARK M. ADAMS, Toledo, Ohio, assignor to Moto Meter Gauge & Equipment Corporation, Toledo, Ohio, a Corporation of Delaware. Filed June 14, 1932. Serial No. 617,282. 19 Claims. (Cl. 116—129.)



1. In an instrument panel, a casing, an instrument associated with said casing, a light transmitting dial for said instrument, having a continuous periphery, an indicator actuated by said instrument and cooperating with said dial, and an imperforate opaque light shield between said instrument and said dial and concealing said instrument from said dial.

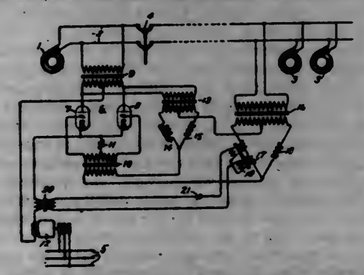
1,917,080. WEIGHING DEVICE FOR WAGONS. KYUTARO AIHARA, Tetsudo-Kansha, Teishaba-Dori, Mihoro-Machi, Abashiri-Gun, Hokkaido, Japan. Filed Feb. 18, 1931, Serial No. 515,620, and in Japan Mar. 6, 1930. 6 Claims. (Cl. 265—71.)

1. A weighing device comprising a main frame adapted to be disposed between the rails of a railway track with the respective end portions of said frame in overlapping relation with respect to, and adapted to be supported by, the respective opposed inner base flanges of the respective rails of said track, two main levers respectively fulcrumed in said main frame between their respective inner and outer end portions, and means connecting the adjacent inner end portions of said main levers for relative swinging movement, the respective outer end portions of said levers being located closely adjacent to, and below the level of the treads of, the respective adjacent rails



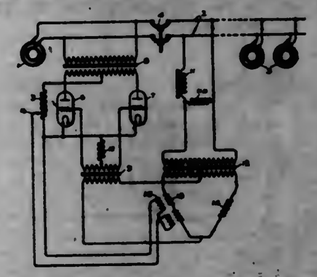
and adapted to receive the thrust of the weight of the car wheels and the loads carried thereby in combination with counterpoise and weight indicating mechanism and an element for connecting said connecting means with said mechanism.

1,917,081. SYSTEM OF ELECTRIC POWER TRANSMISSION. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 16, 1931. Serial No. 581,866. 19 Claims. (Cl. 172—237.)



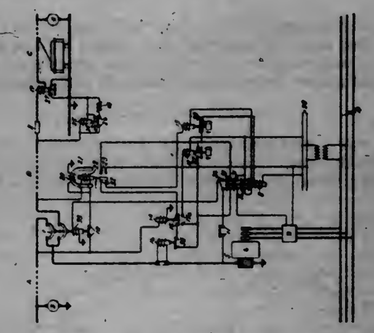
1. In combination, a plurality of synchronous dynamo-electric machines, electrical connections between said machines, a variable power circuit connected to one of said machines for retarding or accelerating said machine upon any tendency to depart from synchronism and means independent of synchronizing forces transmitted by said electrical connections and responsive to any departure from synchronism of said machines for varying the interchange of power between said variable power circuit and the machine associated therewith.

1,917,082. SYSTEM OF ELECTRIC POWER TRANSMISSION. ERNST F. W. ALEXANDERSON, PHILIP L. ALGER, and SAMUEL P. NIXDORFF, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Dec. 16, 1931. Serial No. 581,867. 17 Claims. (Cl. 172—237.)



1. In a system of distribution, a synchronous generating circuit, a synchronous receiving circuit, a power transmission circuit interconnecting said generating and receiving circuits, a power absorbing circuit, means for interconnecting said power absorbing circuit and said generating circuit, and means for varying the average power consumption in said power absorbing circuit in accordance with the advance of the generating circuit voltage vector from a predetermined phase position with respect to a selected time-phase voltage vector of reference.

1,917,083. SYSTEM OF ELECTRIC DISTRIBUTION. ARVID E. ANDERSON, Lansdowne, Pa., assignor to General Electric Company, a Corporation of New York. Filed July 22, 1931. Serial No. 552,447. 4 Claims. (Cl. 191—2.)



1. In combination, a sectionalised circuit including two adjacent electrically isolated sections, a source of current for one of said sections, means for connecting said source to said one of said sections at a point remote from the adjacent ends of said two isolated sections, and means controlled through said one of said sections from said remote point to the other isolated section for effecting the operation of said connecting means in response to the location of the load on said other isolated section.

1,917,084. CURTAIN STRETCHER. JOHN A. ANDERSON, Grand Rapids, Mich. Filed May 26, 1930. Serial No. 455,495. 4 Claims. (Cl. 45—24.)

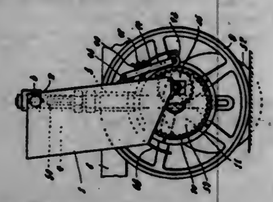


1. In a curtain stretcher, upper and lower bars adapted to retain respectively the upper and lower edges of a curtain, a pair of side members, each formed of a single piece of yieldable material and bent intermediate its ends to form front and rear arms adapted to receive therebetween a side of said curtain and a bight intermediate said arms adapted to slidably receive the end portion of one of said bars, and clamping means for clamping together said front and rear arms of the side members.

1,917,085. SEED DISTRIBUTOR. WILLIAM HENRY BARBER, Ongarue, New Zealand. Filed Mar. 24, 1931, Serial No. 524,973, and in New Zealand Apr. 28, 1930. 6 Claims. (Cl. 111—65.)

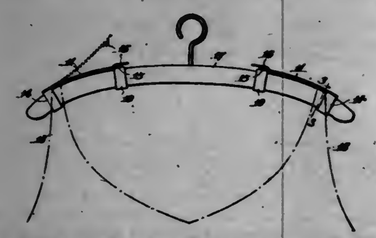
1. A seed and the like distributor for attachment to a plough comprising a member vertically slidable on the beam of the plough, a seed box pivoted at its upper end upon said member, an axle traversing the bottom of said

box, seed distributing means controlling the lower end of said box and mounted upon said axle, a driving wheel mounted upon said adjustable member, a concentric toothed rim on said driving wheel, and a pinion on the end



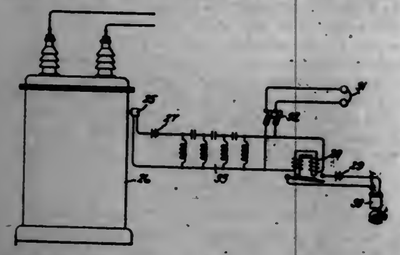
of said axle adapted to engage said rim on said driving wheel and said seed box being pivoted in such a position on said member in respect to the gravity axis that the said pinion will be urged into mesh with said rim.

1,917,086. RETAINING AND SUSTAINING DEVICE. DORA F. BEAUCHAMP, New York, N. Y. Filed Sept. 9, 1932. Serial No. 632,441. 1 Claim. (Cl. 223—64.)



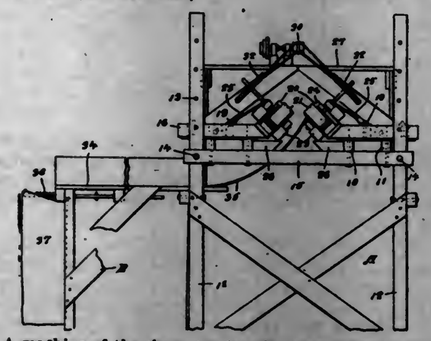
A device of the character described comprising two strip members of limp material each having means on the opposite ends thereof for securing the strip members in spaced relation embracing the arm of a garment hanger, or for securing said strip members in spaced relation on a suitable substanially flat support, a third strip member of limp material, one end of said third strip member being secured to one of said two strip members, and coacting means on the remaining end of said third strip member and the other of said two strip members, to detachably secure said end thereto, whereby said third strip member may be engaged and disengaged for the purposes specified.

1,917,087. PROTECTIVE DEVICE FOR ELECTRICAL APPARATUS. LOUIS F. BLUME and GUGLIELMO CAMILLI, Pittsfield, Mass., assignors to General Electric Company, a Corporation of New York. Filed Mar. 19, 1928. Serial No. 262,785. 5 Claims. (Cl. 177—311.)



1. The combination with high voltage electrical induction apparatus, of means responsive to sounds produced by abnormal electrical disturbances in said apparatus, a protective device, and means controlled by said sound responsive means for actuating said protective device, said actuating means being tuned to actuate said protective device only when the frequency of the sound is of the order of at least two thousand cycles per second.

1,917,088. GRADING MACHINE. JOHN H. BOOK, Lancaster, Pa. Filed Apr. 29, 1931. Serial No. 533,779. 1 Claim. (Cl. 209—102.)

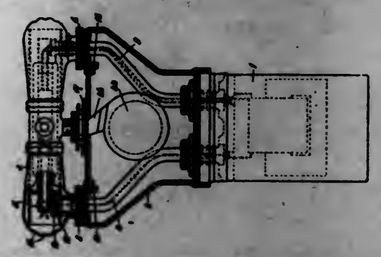


A machine of the character described comprising a stand constituting a frame having end uprights provided with spaced openings, cross pieces arranged at the end uprights, fasteners selectively engageable in the openings in the uprights and engaging the cross pieces for adjustment thereof, inner and outer longitudinal sills arranged in spaced pairs upon the cross pieces, bracket supports carried by the sills adjacent to opposite ends of the stand and each having a bracket provided with a slot, fasteners engaged in the supports and said slots of the brackets whereby said brackets may be moved upon the supports and fastened in adjusted position, guide pulleys, hangers for the pulleys, framings carried by the brackets and supporting the hangers, means for adjusting certain of the hangers, a pair of oppositely arranged endless flat belts trained over the pulleys and disposed longitudinally in spaced converging relation to each other at the center of the stand, each framing having a bed for the inner stretch of the belt, and abutment cleats on each bed and arranged at intervals with respect to the lowest edge of the inner stretches of the belt.

1,917,089. INORGANIC LUBRICANT AND PROCESS OF PRODUCING THE SAME. WILLIS A. BOUGHTON, Cambridge, Mass. Filed June 28, 1930. Serial No. 464,714. 13 Claims. (Cl. 87—9.)

1. A viscous mixture of phosphoric and boric acids.

1,917,090. X-RAY APPARATUS. ALBERT BOUWERS and WILLEM HONDIUS BOLDINGH, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Filed Oct. 15, 1931, Serial No. 569,090, and in the Netherlands Oct. 11, 1930. 11 Claims. (Cl. 250—84.)



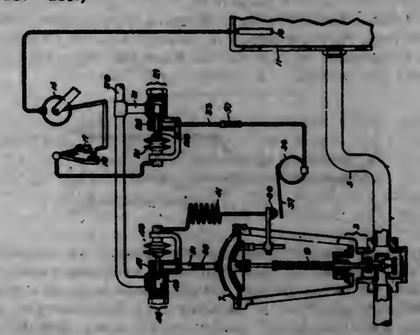
1. In combination, a transformer, a casing therefor, spaced contact terminals on said casing connected to said transformer, an X-ray tube having contact terminals at the ends thereof adapted to register with said transformer terminals when the tube is mounted on the transformer casing, circuit-controlling means in circuit with said transformer and means for detachably securing said X-ray tube to said transformer casing with the terminals of said tube in engagement with the transformer terminals, said securing means being arranged to control said circuit-controlling means when the X-ray tube is mounted on the transformer casing.

1,917,091. MONEY HANDLING MACHINE. EDWARD J. BRANDT, Watertown, Wis., assignor to Brandt Automatic Cashier Company, Watertown, Wis., a Corporation of Wisconsin. Filed Feb. 12, 1930. Serial No. 427,833. 10 Claims. (Cl. 133—1.)



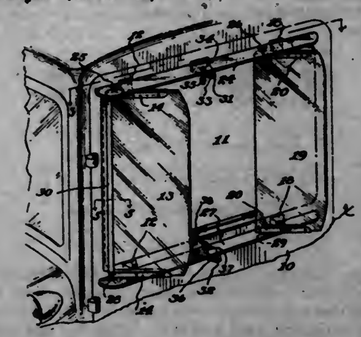
1. In combination with a money handling machine, a coin supporting tray adapted to be readily positioned relative to the machine or removed therefrom, a cover carried by the tray and normally positioned to prevent access to the coins, and means for locking the cover in its normal position and for locking the tray to the machine, said means being operable in one direction for releasing the cover and in another direction for releasing the tray from the machine.

1,917,092. CONTROL SYSTEM. EDGAR H. BRISTOL, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a Corporation of Massachusetts. Filed Jan. 24, 1931. Serial No. 510,926. 4 Claims. (Cl. 137—139.)



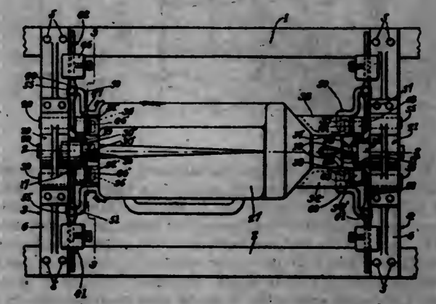
1. In combination with a valve having a pressure-fluid-operated motor for operating the same, means controlling the supply of pressure fluid to the motor comprising a valve mechanism of the supply and waste type, a control couple therefor, the relative approach and recession of the elements of which govern the said valve mechanism, one element of which couple is moved proportionately to movement of said valve, the relative position of said elements being further controlled by a pressure-fluid-operated device, means controlling flow of fluid to said device comprising a valve mechanism of the supply and waste type and a control couple, and means responsive to the fluctuations of a variable condition for relatively positioning the elements thereof.

1,917,093. AIR DEFLECTOR. LEWIS O. CAMERON, Washington, D. C., assignor to Louise W. Cameron, Washington, D. C. Filed Sept. 19, 1932. Serial No. 633,864. 6 Claims. (Cl. 98—2.)



1. In a structure of the class described, the combination with a passenger transporting enclosure having a window opening, of a pair of spaced vertical air current deflectors for the opening pivotally mounted on the enclosure exteriorly of the latter, and upper and lower horizontal air current deflectors for the window opening, each pivotally connected to the vertical deflectors and movable into and out of engagement with the enclosure as the vertical deflectors are moved to their operative and inoperative positions with respect to the deflection of air current against entry through the window opening.

1,917,094. MOTOR SUSPENSION. DAVID E. CARLSON, Chicago, Ill. Filed Apr. 8, 1933. Serial No. 665,209. 14 Claims. (Cl. 248—142.)

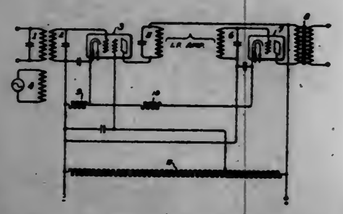


1. In a suspension for the motor of an automotive vehicle, the combination with the motor and the chassis of the vehicle, a front and a rear supporting member disposed transversely of and secured to said chassis and between which the motor is suspended, of a pair of oppositely extending spring controlled spaced counterbalanced suspension units pivotally supported at their inner ends from said front member and supported intermediate their ends from the forward end of the motor, and a pair of oppositely extending spring controlled spaced counterbalanced suspension units pivotally supported at their inner ends from said rear member and supported intermediate their ends from the rear end of the motor.

1,917,095. SIGNAL LIMITING DEVICE. WENDELL L. CARLSON, Haddonfield, and RALPH S. HOLMES, Haddon Heights, N. J., assignors to General Electric Company, a Corporation of New York. Filed Nov. 19, 1931. Serial No. 576,116. 3 Claims. (Cl. 250—20.)

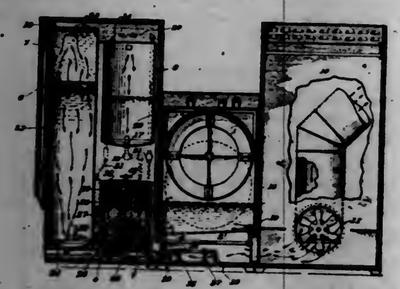
1. In a radio receiving circuit, the combination including a heterodyne detector of the electron discharge type,

and a second electron discharge detector, said detectors including cathode, anode and control elements, connections whereby current having amplitude variations dependent upon the characteristics of the transmission medium are supplied to said detectors, and means common to the cath-



ode-anode circuits of both said detectors arranged to produce a source of direct current potential which is variable in response to the intensity of the received current and for supplying said potential to the control element of said heterodyne detector thereby to control the output thereof in response to the intensity of the received current.

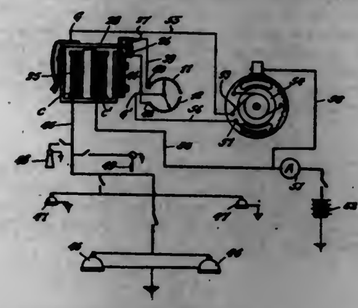
1,917,096. METHOD AND APPARATUS FOR CLEANING. JOHN W. CHAMBERLIN, Akron, Ohio. Filed Oct. 24, 1932. Serial No. 639,291. 4 Claims. (Cl. 68—38.)



1. A reclaiming mechanism adapted to reclaim a solvent of high specific gravity which has been contaminated by a washing of fabrics in a washing machine, which comprises a container having a contaminated solvent inlet at its top and a reclaimed solvent outlet at its bottom, said container having in its upper portion a volume of liquid alkaline material into which the used solvent is introduced through said inlet so as to pass therethrough in a downward direction for removing soluble greases from the solvent, a comparatively small volume of liquid viscous porous material beneath said liquid alkali for removing insoluble foreign matter from the solvent as it passes downwardly therethrough, and a considerable volume of solvent from which the above mentioned foreign matter has been removed in said container and extending from the bottom thereof to the liquid viscous porous material which is supports.

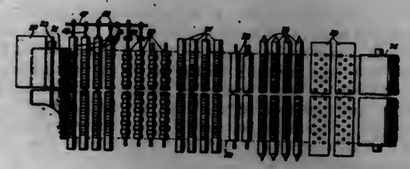
1,917,097. GENERATOR REGULATOR FOR AUTOMOTIVE VEHICLES. DOLPH O. CLEGG, Bellefontaine, Ohio. Filed May 29, 1931. Serial No. 541,100. 5 Claims. (Cl. 171—313.)

1. In a system of electrical distribution, the combination with a generator of the third brush type, a storage battery, and electrical appliances, said generator and battery being each connected in circuit and to circuits containing the appliances, of manually adjustable variable resistance units in circuit with the third brush for varying the resistance of the field of the generator, and a relay in the appliance circuit controlled automatically by current to the appliances to cut out one of the resistances and throw in another of the resistances whereby to main-



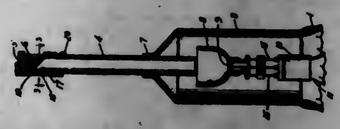
tain a predetermined rate of charge of the battery regardless of whether the electrical appliances are energized or de-energized.

1,917,098. APPARATUS AND PROCESS FOR MAKING PAPER. AUSTIN E. COUBIN, Green Bay, Wis. Filed Feb. 2, 1932. Serial No. 590,505. 18 Claims. (Cl. 92—38.)



1. In a paper making machine, in combination with a Fourdrinier wire, a comb-like structure precipitating seepage from the lower surface of the wire as a substitute for a conventional tube roll.

1,917,099. X-RAY TUBE. WILLIAM D. COOLIDGE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 18, 1929. Serial No. 400,691. 2 Claims. (Cl. 250—35.)

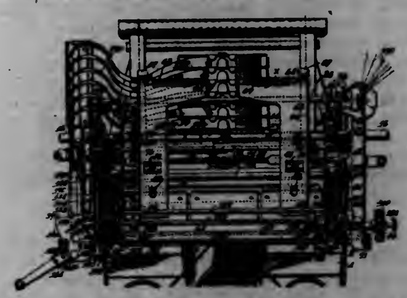


1. In an X-ray tube for internal therapy, an evacuated envelope comprising glass and metal cylinders sealed together, the metal cylinder being tapered down to a tube sufficiently small to be inserted into body cavities, an anode positioned in the smaller portion and a cathode positioned in the larger metallic portion.

1,917,100. MANIFOLDING DEVICE. GUSTAVE O. DEGENER, San Francisco, Calif., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed July 30, 1930. Serial No. 471,802. 12 Claims. (Cl. 197—126.)

1. In a manifolding device, the combination with a pair of cooperating rolls for feeding work sheets; of a supporting frame for one of the rolls pivotally mounted in rear of the other roll for movement from an operative to an inoperative position for permitting insertion of the lead-in ends of the work sheets between the rolls, the

pivot being movable in a direction towards and from the other roll; a lug fixed to the frame; a pivoted latch cooperating with the lug to retain the frame in its operative position; and a spring connected to the latch for yieldably retaining the same in operative engagement with the lug and for retaining the pivotally supported roll in yieldable contact with the other roll.



6. In a manifolding device, the combination with a typewriter including a carriage; of a platen over which work sheets are fed; a rod supported on the carriage in rear of the platen and in parallelism therewith; a rock shaft disposed in rear of the rod and in parallelism therewith; a pair of rearwardly extending arms connected at their front ends to the platen; supporting links connecting the carriage and the front ends of the arms; supporting links connecting the rod and the rear ends of the arms; cam arms fixed to the rock shaft and engageable with the rear ends of the arms to move the platen forwardly; coil springs mounted on the rod and engageable with the rear supporting links to yieldably retain the platen carrying arms in engagement with the cam arms; and means for oscillating the rock shaft.

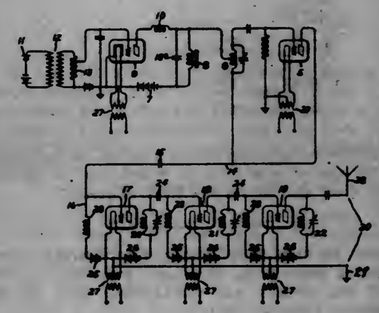
12. In a manifolding device, the combination with a platen past which work sheets are fed, means for supporting a plurality of carbon strips interleaved with and transverse to said work sheets, means located above and independent of the platen for line spacing the work sheets comprising a feed roll and a cooperating idle roll, means for feeding the carbon strips, a single manually operable independent element for controlling both of said means, and means operable independently of said element for rendering the feed roll inoperative whereby the carbon strips only will be fed upon operation of said element.

1,917,101. PRODUCTION OF FAST DYEINGS WITH ESTER-SALTS OF LEUCO VAT-DYESTUFFS. GEORGES DE NIEDERHÄUSERN, Basel, Switzerland, assignor to the Firm of Durand & Huguenin S. A., Basel, Switzerland. Filed Apr. 19, 1929, Serial No. 356,621, and in Germany Apr. 26, 1928. 4 Claims. (Cl. 8—5.)

1. A process for producing fast dyeings with ester salts of leuco-vat-dyestuffs, which consists in applying on the fibre an ester salt of a leuco-vat-dyestuff together with a cupric salt and an organic acid not injurious to the fibre, and performing the development by a simple drying operation.

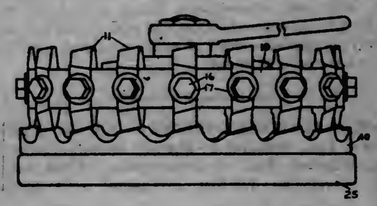
1,917,102. FREQUENCY MODULATION. ROBERT B. DOME, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 22, 1929. Serial No. 379,892. 6 Claims. (Cl. 179—171.)

1. In a frequency modulation system, the combination of a master oscillator, means for adjusting the output frequency of said oscillator to a predetermined value, means for applying a signal to the oscillator to vary the output frequency thereof in accordance with the amplitude of the signal and produce a frequency modulated output which is modulated at a rate which is dependent upon the frequency of the applied signal, and a frequency multiplying means connected with the oscillator for receiving the output therefrom, said means including a series of cascade connected electric discharge devices and a tuned circuit associated with each of said devices, each of said circuits being tuned to a higher harmonic of the frequency to which a preceding circuit is tuned, and one or more of the electric discharge devices being excited with oscillations from the previous discharge device of such value that it operates in a region above the knee of the



anode current grid voltage curve whereby any amplitude modulation produced during frequency modulation of said oscillator is suppressed and the tuned circuit associated with the last of said discharged devices being tuned to a harmonic frequency so high that side band frequencies produced by amplitude modulation are displaced from the carrier frequency in the frequency spectrum by an amount greater than the audio range.

1,917,103. APPARATUS FOR TRUING FACE MILL CUTTERS. SCHUYLER H. EARL, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Apr. 15, 1929. Serial No. 355,357. 7 Claims. (Cl. 33—201.)

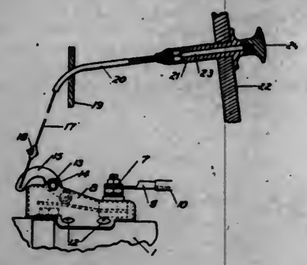


5. A truing fixture for rotary face-mill cutters comprising a support, a plurality of members arranged on said support about a common axis and adapted to engage different blades of the cutter to be trued, and means on the support for locating said cutter so that its axis coincides with the common axis about which said blades are arranged.

1,917,104. STARTING MOTOR SWITCH. LOUIS B. EHRLICH, Toledo, Ohio, assignor to The Electric Auto-Lite Company, Toledo, Ohio, a Corporation of Ohio. Original application filed June 11, 1925, Serial No. 36,467, now Patent No. 1,839,916, dated Jan. 5, 1932, divided and this application filed Sept. 20, 1928. Serial No. 307,191. 9 Claims. (Cl. 200—52.)

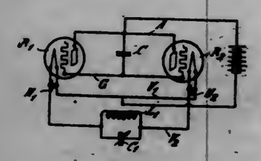
1. In a motor switch, a pair of terminals; an element attached to one of said terminals; a reversible lever adapt-

ed to be pivotally mounted in either of two positions with respect to said element and adapted to move said element



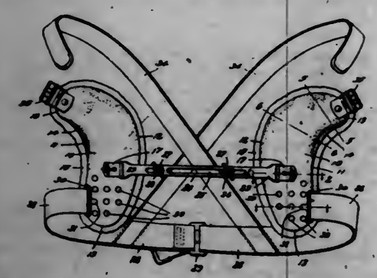
into engagement with said other terminal in one position when the end of said lever is pulled, and in the other position when the end of said lever is pushed.

1,917,105. DEVICE FOR GENERATING SHORT WAVES. ABRAHAM ESAU, Jena, Germany. Filed July 22, 1930, Serial No. 469,873, and in Germany July 25, 1929. 3 Claims. (Cl. 250—36.)



1. A device of the kind described including a pair of three element tubes each having a plate, a grid and a filament, a conductive connection between said plates, a second conductive connection between said grids, a third conductive connection independent of the said second connection between a terminal of one filament and a corresponding terminal of the other filament, a closed circuit including an inductance and a capacity connected in series, conductive connections each extending between the remaining terminal of a respective filament and the closed circuit, said last connections being connected to the closed circuit between the capacity and resistance and respectively on opposite sides of said resistance, and a heating means for said filament.

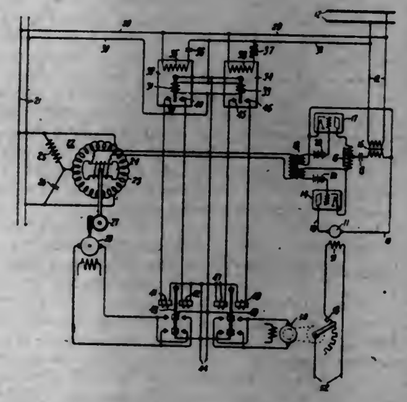
1,917,106. CLAVICLE SPLINT. JOE J. ETTINGER, Warsaw, Ind., assignor to Zimmer Manufacturing Company, Warsaw, Ind., a Corporation. Filed Aug. 12, 1932. Serial No. 628,610. 6 Claims. (Cl. 120—78.)



1. In a clavicle splint, a pair of rigid plates shaped to conform to the front and shoulder joint part of the shoulder region of a human body, a back strap, coacting means on the ends of said strap and the lower parts of said plates for connecting said ends to a selected point of a multiplicity of connection points on said lower parts, buckles each fixed to the upper end of a respective plate, a pair of shoulder straps arranged in crossed relation and each having one end secured to the back strap adjacent a respective plate and having its other end secured to the buckle of the other plate, hinge plates each pivotally mounted on the front face of one of said rigid plates, means to secure the hinged plates in adjusted pivotal positions on said rigid plates, and rigid connecting means having its ends hinged respectively to the hinge plates.

5. In a clavicle splint, a pair of shoulder plates for engaging the shoulders of a patient, hinge plates each mounted pivotally on a respective shoulder plate to swing about an axis normal to the plate, means to hold said hinge plates in pivotally adjusted position, and rigid connecting means pivoted to said hinge plates at its ends.

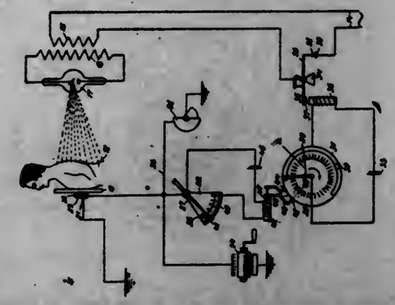
1,917,107. ELECTRIC POWER CONVERTING APPARATUS. ALAN S. FITZ GERALD, Wynnewood, Pa., assignor to General Electric Company, a Corporation of New York. Filed Jan. 12, 1931. Serial No. 508,160. 13 Claims. (Cl. 172—281.)



13. In combination, an apparatus for converting direct current into alternating current including an electric valve provided with a control grid, a source of alternating potential for exciting said grid, an impedance device connected between said source and said grid, a second electric valve provided with a control grid for carrying said impedance, a third electric valve provided with a control grid, a circuit for energising the grid of said third valve in accordance with the phase displacement between the potential of said source and that of the alternating current output of the apparatus, and a circuit including said third valve for controlling the grid potential of said second valve.

1,917,108. METHOD OF AND SYSTEM FOR TAKING X-RAY PHOTOGRAPHS. HEINRICH FRANKE, Hamburg-Altona, Germany, assignor to C. H. F. Müller Aktiengesellschaft, Hamburg-Fuhlsbuttel, Germany, a Corporation of Germany. Filed Feb. 8, 1931, Serial No. 513,677, and in Germany Dec. 2, 1929. 2 Claims. (Cl. 250—84.)

1. A system for taking X-ray photographs, comprising a source of X rays, a support for a sensitised body in the path of the X rays emanating from said source and in position for having an object placed between the same and the source of X rays, an apparatus for gauging the intenalty of radiation and comprising a cell responsive to radiation and means connected with said cell for measuring the intensity of the radiation, means for deenergising said source of X rays, time-controlled mecha-



nism for automatically operating said deenergising means and means controlled by said measuring apparatus for arresting said time-controlled mechanism.

1,917,109. OXY-ARC CUTTING NOZZLE. DONALD F. FROST, Rockport, Mass., assignor to General Electric Company, a Corporation of New York. Filed Dec. 7, 1929. Serial No. 412,528. 9 Claims. (Cl. 219—15.)



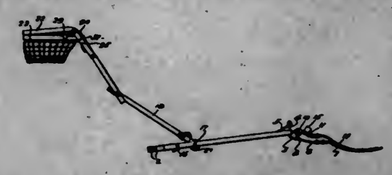
1. An oxy-arc cutting nozzle comprising an electrode and a juxtaposed conduit of refractory oxide material consumable in the arc at substantially the same rate as said electrode extending along said electrode.

1,917,110. FULL CIRCLE RETREADER. ARTHUR WILSON GAY, Reading, Ohio. Filed Aug. 7, 1931. Serial No. 555,831. 9 Claims. (Cl. 18—18.)



4. A full circle retreader for pneumatic tire casings comprising the following instrumentalities: an external covering containing a tread mold and adapted to extend completely around and entirely cover the periphery of the casing, heating means within the substance of said cover extending across and around said mold, and means for expanding the tire casing within the cover so as to force the gum tread into said mold, together with a layer of inexpansible material such as fabric or cording extending completely around the periphery of the cover and secured thereto outside of the mold.

1,917,111. TRAP FOR CATCHING ANIMALS ALIVE. WALTER A. GIBBS, Chester, Pa. Filed Nov. 7, 1930. Serial No. 494,135. 5 Claims. (Cl. 43—90.)

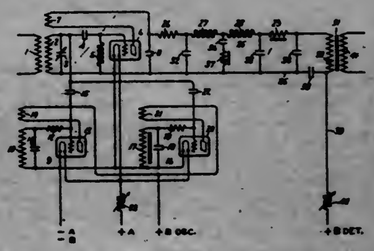


1. In a device of the type described, a base, a frame pivotally mounted on said base, a trap carried by said frame, means for moving said frame relative to said base, and common means for holding said trap open and for rendering said first means inoperative until said device is sprung.

1,917,112. ACOUSTICAL PRODUCT. RAFAEL GUASTAVINO, Bay Shore, N. Y., assignor to R. Guastavino Company, New York, N. Y., a Corporation of Massachusetts. Filed Jan. 17, 1929. Serial No. 333,246. 2 Claims. (Cl. 106—11.)

1. A tile or block consisting of graded non-absorbent siliceous aggregates of a character that are superficially fusible with or without a flux at a temperature between 1500° to 2000° F. and of a size to provide a porous mass capable of absorbing sound between C—1 and C—7 of the musical pitch, bonded at their points of contact by superficial fusion.

1,917,113. SUPERREGENERATIVE RECEIVER. CLARENCE A. GUNTHER, Haddonfield, N. J., assignor to General Electric Company, a Corporation of New York. Filed Apr. 28, 1932. Serial No. 607,992. 6 Claims. (Cl. 250—20.)



1. In combination, an electron discharge detector having an input circuit and an output circuit, said circuits being arranged to produce normally-sustained oscillations in said input circuit, an electron discharge device including a grid element arranged in an oscillatory circuit to produce high frequency oscillations having a steep wave front, impedance means for coupling said grid element to said detector input circuit whereby said electron discharge device periodically suppresses said normally-sustained oscillations in said circuit, and means included in said oscillatory circuit for isolating the circuit elements thereof from said detector input circuit.

1,917,114. RADIANT ENERGY GUIDING SYSTEM FOR AIRPLANES. JOHN HAYS HAMMOND, Jr., Gloucester, Mass., and ERNST F. W. ALEXANDERSON, Schenectady, N. Y.; said Alexanderson assignor to General Electric Company, a Corporation of New York. Filed Feb. 15, 1928. Serial No. 254,540. 7 Claims. (Cl. 250—11.)

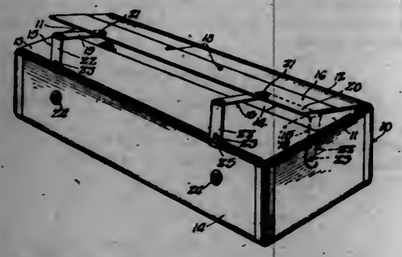
5. In a system for guiding aircraft to a landing field, the combination comprising a plurality of short wave

antennæ spaced along a boundary of said field, each of said antennæ being constructed and arranged to project upward from said boundary of said field a fan-shaped beam of radio waves of short wave length, and the differ-



ent antennæ being so spaced and arranged relative to each other that said fan-shaped beams combine to form a continuous sheet of radio waves extending longitudinally of said boundary.

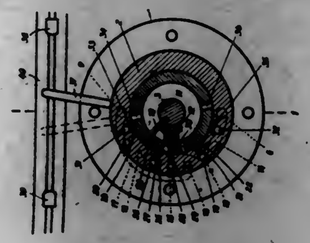
1,917,115. BOX. HERMAN HANSEN, Chicago, Ill. Filed Aug. 5, 1931. Serial No. 555,829. 2 Claims. (Cl. 229—47.)



1. A fibre box comprising a body having an open side and closure members therefor, a reenforcing strip on one of said members overlapping a portion of the other member when the same are in closed position, a fastening device comprising a substantially L-shaped strip including a leg pivotally attached to said reenforcing strip and extending over the other of said closure members when in fastened position, a male element on said body, and said strip including a resilient leg provided with an aperture for the detachable reception of said male element, said device being adapted to be pivoted so that said second-named leg may be frictionally engaged with an end of said box and keep said closure members in closed position without the use of said element while permitting said closure members to be readily opened and closed.

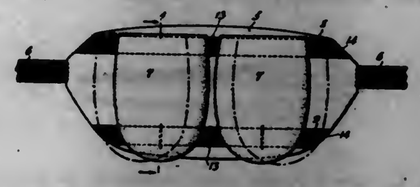
1,917,116. FLUID DISTRIBUTOR DEVICE FOR FLUID DRIVING GEARS. KARL HENTSCHEL, Berlin-Charlottenburg, and OTTO VOM BOVERT, Dresden, Germany, assignors, by mesne assignments, to Samsonwerk G. m. b. H., Berlin, Germany. Filed July 8, 1931, Serial No. 549,476, and in Germany July 12, 1930. 3 Claims. (Cl. 121—45.)

1. In a device of the character described including in combination with a reversing drive motor having a traveling carriage, a control device comprising a casing having an extension, a sleeve member mounted for oscillation on said extension, said casing and sleeve member having respectively a plurality of conduits for a fluid driving medium, a valve member mounted for oscillation within said casing and having a plurality of conduits for a fluid driving medium, a vanetype motor mounted for oscillation within the extension of the casing and coaxially connected to said valve member, a lever carried by the aforesaid sleeve member, stop members carried by the carriage and respectively adapted to coact with said lever upon en-



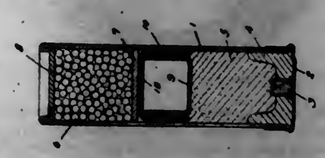
gagement therewith at the end of the path of travel of said carriage to bring said conduits into respective selected registry with each other to reverse the flow of said fluid driving medium whereby the motor is reversed.

1,917,117. BANDAGE FOR THE EYES. WILLIAM W. HINES, New York, N. Y. Filed Oct. 3, 1931. Serial No. 566,723. 2 Claims. (Cl. 2—15.)



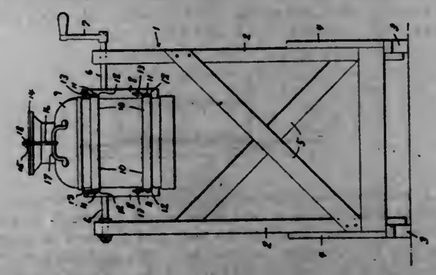
1. A bandage for the eyes including a pad for each eye, each pad having a body fashioned to provide a pocket having a mouth for the reception of a quantity of padding material essential to cause the pads to fill the orbital recession to which it is applied and a head encircling member supporting the pads and means connecting the pads with the supporting member for independent lateral adjustment relative thereto so as to coincide with the spacing of the orbital recessions, said means including a transverse strip on the inner side of the member and loops formed on said pads.

1,917,118. SHOTGUN CARTRIDGE. CHARLES ANDREW HISLOP, Seamill, West Kilbride, Scotland, assignor to Imperial Chemical Industries, Limited, a Corporation of Great Britain. Filed July 7, 1932, Serial No. 621,277, and in Great Britain July 7, 1931. 8 Claims. (Cl. 102—42.)



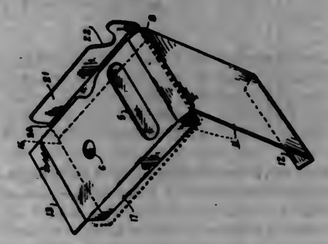
1. A shot gun cartridge comprising a powder charge and a shot charge and an intermediate wad consisting of a unit formed from two hollow substantially cylindrical cups which are open at one end and closed at the other end, the said cups being of slightly different diameters and the cup of smaller diameter being inverted inside the other cup.

1,917,119. MIXING MACHINE. ALBERT HOLMQUIST, Holmquist, S. Dak. Filed July 6, 1932. Serial No. 621,098. 2 Claims. (Cl. 259—81.)



1. A mixing machine comprising a supporting structure, a pair of aligned, spaced shafts journaled on the supporting structure, elongated members fixed on the inner end portions of the shafts for rotation therewith, said members having pairs of openings extending transversely through their end portions, upper and lower pairs of arcuate straps engageable with the container, bolts on the end portions of the straps insertable through the openings, and nuts threaded on the bolts and engageable with the members for clamping the straps around the container.

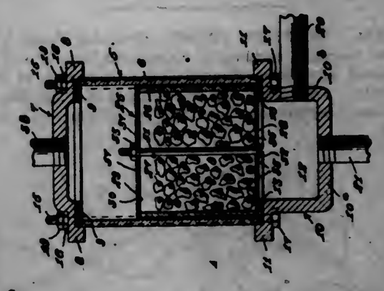
1,917,120. FOLDING BOX. CHESTER EVERTS HOWELL, Jr., Orange, N. J., assignor to F. M. Howell & Co., Elmira, N. Y. Filed Dec. 31, 1930. Serial No. 505,948. 2 Claims. (Cl. 229—38.)



1. A blank for a foldable box comprising a front face, a flap extending from one side of the front face, said flap foldable to form the sides, a reinforcing flap and a closure member, a second flap extending from an end of the front face foldable to form a bottom and back and having a securing tab on its end, said front face having a securing tab adapted to contact with the last mentioned securing tab to form an end of the box, said reinforcing flap adapted to form means to permit the front face, ends and back to collapse when empty upon said reinforcing flap being pushed.

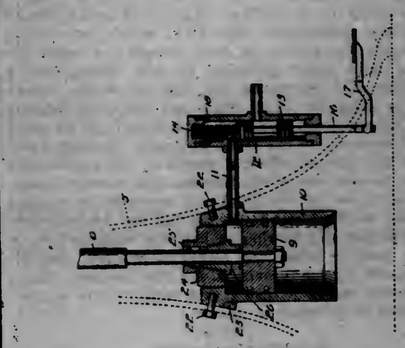
1,917,121. FILTER. EDWIN B. HUGHSON, Big Indian, N. Y. Filed Aug. 12, 1931. Serial No. 556,692. 3 Claims. (Cl. 210—131.)

1. A filter comprising an outer casing composed of an open-ended cylinder of transparent material, a hollow bottom member on which said cylinder is seated, a cap member seated on the top of said cylinder, gaskets interposed between the cylinder and the bottom member and the cap respectively, bolts extending through peripheral flanges of the bottom member and the cap and disposed exteriorly of the cylinder to secure the elements of the outer casing together, and an inner casing of cylindrical form and of substantially the same diameter as the interior diameter of the outer casing but of less height than the latter, said inner casing being floatingly mounted in the cylindrical portion of the outer casing, and a filtering medium in the inner casing, the inner casing having ap-



ertured top and bottom walls, the bottom member being tapped for an intake pipe and the cap member being tapped for an outlet pipe.

1,917,122. STAPLING MACHINE. SYLVESTER H. HUNT, Norfolk, Va. Filed May 28, 1931. Serial No. 540,723. 2 Claims. (Cl. 1—2.)



1. In a stapling machine embodying a hollow pedestal, a vertical piston rod for operating the stapler, a piston on the lower end of said rod, a cylinder for this piston, and valve means for admitting and exhausting an expansive fluid into and out of the cylinder at a point above the piston to thereby perform the working stroke under the action of an expansive fluid, and spring means for returning the rod of the stapler preparatory to another working stroke, said cylinder being housed and centered within said hollow pedestal at the lower end thereof and having its top closed and its bottom open.

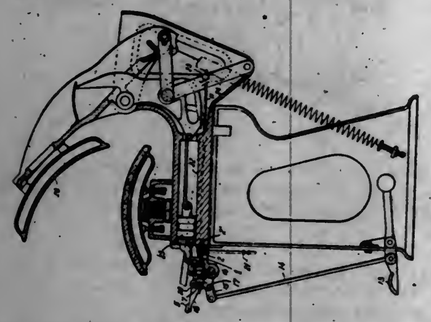
1,917,123. CARD HOLDER. LE ROI E. HUTCHINGS, Buffalo, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y. Filed Nov. 9, 1928. Serial No. 318,220. 7 Claims. (Cl. 40—124.)



1. A card holder for card index systems, comprising a sheet of flexible material formed to provide a front portion and a back portion joined together at one marginal edge, a supporting strip secured to said sheet adjacent said marginal edge, and means spaced from said marginal

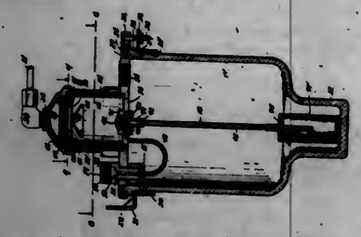
edge for retaining said front and back portions in spaced relation to provide pockets opening between the free marginal edges of said front and rear portions.

1,917,124. LAUNDRY PRESS. WILLIAM JACK, Clydebank, Scotland, assignor of nine-tenths to D. & J. Tullis, Limited, Clydebank, Scotland, a Corporation of Great Britain. Filed Apr. 13, 1932, Serial No. 604,898, and in Great Britain Mar. 16, 1931. 1 Claim. (Cl. 121—38.)



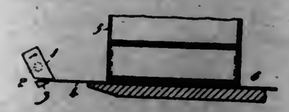
In a laundry press having a fixed buck and a platen movable into engagement therewith, means for raising and lowering the platen by fluid pressure, a valve for admitting fluid under pressure to said means and a second valve for permitting the fluid to escape, means tending to close the inlet valve and open the exhaust valve, a whipple tree connected to said valve at its pivot so that movement of the pivot will open the inlet valve and close the exhaust valve, a manually operated handle connected to each end of the whipple tree whereby simultaneous operation of the handle is necessary to operate the valves, resilient means connecting the whipple tree with the platen and serving to hold the whipple tree in operative position when the platen is lowered, said resilient means having provision for lost motion, and a foot operated means releasing said whipple tree against the pressure of the resilient means.

1,917,125. LUBRICATOR FOR INTERNAL COMBUSTION ENGINES. WILLIAM M. S. JACKSON and PAUL F. HACKETHAL, Detroit, Mich.; Lucile J. P. Jackson, administratrix of said William M. S. Jackson, deceased, assignors to National Bank of Germantown & Trust Company, trustee, Philadelphia, Pa., a Corporation. Filed Feb. 15, 1929. Serial No. 340,270. 14 Claims. (Cl. 261—76.)



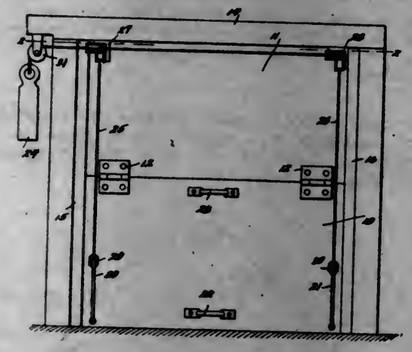
1. A device of the character described, comprising a body having a chamber which is provided with a gas inlet and an outlet, means for mixing liquid with the gas passing through said chamber, means connecting said outlet with a source of underpressure, a metering member arranged across said chamber between said mixing means and said outlet and baffle means interposed between said mixing means and said metering member for diverting excess liquids from said metering member.

1,917,126. MANDREL FOR BOX-MAKING MACHINES. BROR ANDREAS EMIL JOHNSON, Alsten, Sweden, assignor to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden, a Corporation of Sweden. Filed July 11, 1931, Serial No. 550,159, and in Germany Apr. 14, 1927. 1 Claim. (Cl. 93—59.)



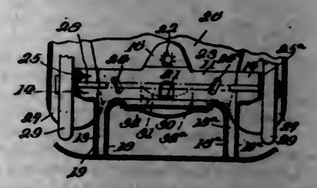
A mandrel for box-making machines, comprising a rotatable body having a corner cut away, a tongue secured at the cut away corner of the body and disposed in spaced relation to the latter to provide a slot extending in the direction of the axis of rotation of the body and open at both sides of the latter for receiving and holding a box blank.

1,917,127. DOOR CLOSURE. ORVILLE C. JOHNSON, Aurora, Ill. Filed Aug. 12, 1931. Serial No. 556,653. 1 Claim. (Cl. 20—20.)



In a manually operated door, a door proper composed of upper and lower sections hingedly connected, said sections being of substantially the same height and adapted to lie outside the frame in their flexed and open position, and means for counterbalancing the weight of said door comprising a cable and weight, said cable being connected to the lower section of said door by a sliding connection, whereby the initial pull upon the door will be at substantially the central portion of said lower section and the final pull upon the door will be at substantially the lower portion of said lower section.

1,917,128. UNIT FOR TOY VEHICLES. HARRY T. KINGSBURY, Keene, N. H., assignor to Kingsbury Mfg. Company, Keene, N. H., a Corporation of New Hampshire. Filed Jan. 25, 1933. Serial No. 653,543. 17 Claims. (Cl. 46—48.)



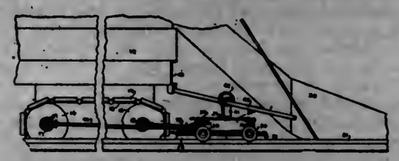
1. A blank consisting of a single sheet of metal adapted to be formed into a combined axle support and bumper for a toy automobile, said blank comprising a body portion having oppositely disposed projecting portions, arms forwardly extending from said body portion, and a bumper section connected with and extending transversely across the ends of said arms.

1,917,129. TEMPERATURE INDICATOR. ERNST KIRCH, Berlin-Oberschoneweide, Germany, assignor to General Electric Company, a Corporation of New York. Filed Dec. 21, 1931, Serial No. 582,456, and in Germany Dec. 24, 1930. 6 Claims. (Cl. 73—52.)



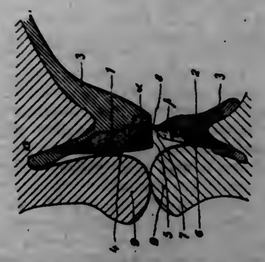
3. In combination with an insulated electrical cable, a hollow wire embedded in a portion of said cable, a substance varying in pressure with variations in temperature and contained in said hollow wire, a terminal insulator for said cable, a pressure-responsive device attached to said insulator, and an insulating tube connecting said pressure-responsive device and the interior of said hollow wire.

1,917,130. SUBGRADE PLANER. HARRY L. KISTLER and PETER J. THOMPSTER, Jr., Peru, Ill. Filed Sept. 27, 1929. Serial No. 395,606. 7 Claims. (Cl. 94—39.)



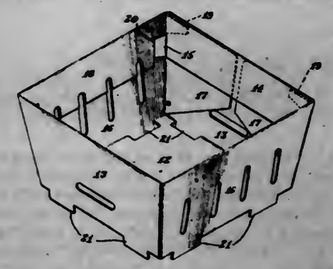
1. In combination with a road building machine, a subgrade planer comprising a transverse frame positioned in front of the forward end of the road machine, bars pivotally carried by the frame extending upwardly and in rearwardly converging relation therefrom and pivotally attached to the machine for advancing the frame ahead of the machine, means on the opposite ends of the frame for travelling on the spaced forms at opposite sides of the road, and planer blades carried by the frame and extending downwardly therefrom for engagement with the subgrade to cut and level the same.

1,917,131. ARTIFICIAL INCISOR. LUDWIG KÖHLER, Cologne, Germany. Filed Oct. 29, 1932, Serial No. 640,305, and in Germany Oct. 26, 1931. 1 Claim. (Cl. 32—9.)



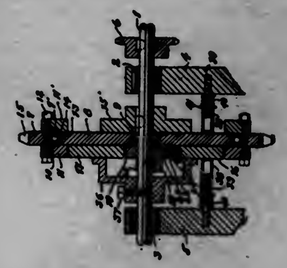
In artificial dentures, an upper incisor having a substantially horizontal plane masticating surface and an opposed lower incisor having on its labial side a front surface proper, a biting edge adapted to engage the masticating surface of the upper incisor, and an inclined surface extending from said biting edge downward to the front surface proper and forming with the latter an obtuse angle.

1,917,132. PAPER RECEPTACLE. ELIE W. LABOMBARDE, Nashua, N. H. Filed June 23, 1931. Serial No. 546,287. 1 Claim. (Cl. 229—34.)



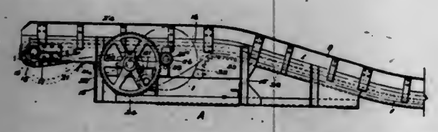
A paper receptacle having a bottom and four diverging walls, the two side walls having wide tapering end flaps of single thickness and having inwardly folded upper edge flaps the ends of which are provided with substantially rectangular notches to present abutments, and having free tongues extending from their ends, the two end walls having upper edge flaps folded inwardly over the wide end flaps of the side walls and over said free tongues, the end corners of the said flaps of the end walls having tongues the ends of which abut the edges of the notches of the side wall edge flaps, the upper edges of the tapering end flaps of the side walls and said free tongue extending snugly along the inner surfaces of the folds of the end wall flaps and resisting outward swing of the flaring side walls and consequent separation of the abutting tongues and notches.

1,917,133. CLUTCH. DONATO A. LETTINI, Elizabeth, N. J. Filed Oct. 10, 1932. Serial No. 637,151. 6 Claims. (Cl. 192—48.)



1. In a free wheel clutch, a driving shaft, a driven member, a cam surface disposed eccentrically on the shaft, an arcuate cam plate in engagement with said cam surface and movable in either direction around the shaft, spring members for yieldably retaining said cam plate in a neutral position in contact with the cam surface, a clutch member, said member being provided with a cam face in engagement with the cam plate, a clutch engaging surface on said driven member adjacent the outer end of the clutch member, said cam plate being movable radially by the cam surface whereby to move the clutch member to engage the clutch engaging surface upon relative movement between the driving shaft and driven member, a second cam surface disposed eccentrically on the shaft, a second clutch member having a cam face engaging said last named cam surface and being movable thereby to engage said clutch engaging surface to provide a two way engaging clutch.

1,917,134. CONVEYER. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Oct. 15, 1924, Serial No. 743,723. Renewed May 20, 1931. 49 Claims. (Cl. 198—171.)



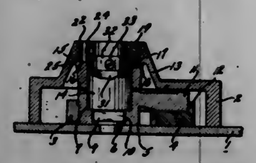
1. In a continuous conveyer of the class described, the combination of a plurality of readily detachable conveyer sections disposed in end to end relation and each made up of a lower chain carrying pan and an upper chain and material carrying pan, readily detachable coupling means connecting said pans, and links flexibly connecting said coupling means to secure said sections together.

1,917,135. WELL APPARATUS. JAMES LITTELL, Maracaibo, Venezuela. Filed Feb. 17, 1932. Serial No. 593,612. 5 Claims. (Cl. 294—96.)



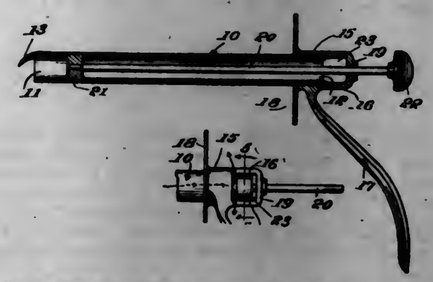
1. In a device of the character described, a body portion, slips movably connected with the body portion and movable by gravity from a normally retracted position therein into coupling engagement with a well casing, a cross head disposed below the slips and movable in the body, the slips engaging with and being supported on the cross head, spring means contained within the body and operative through the cross head to maintain the slips in said retracted position, the body having a connection with a source of fluid pressure, a reciprocating plunger within the body responsive to such pressure, and a connection between the plunger and the cross head.

1,917,136. JAIL LOCK. ANDREW MAIN, Cleveland, Ohio, assignor, by mesne assignments, to Cleveland Fare Box and Four-Way Lock Co., Cleveland, Ohio, a Corporation of Ohio. Filed May 11, 1931. Serial No. 536,401. 2 Claims. (Cl. 70—46.)



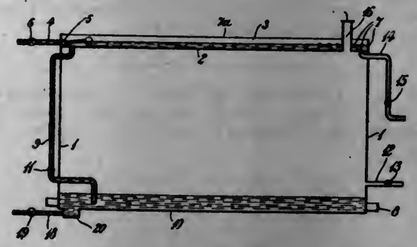
1. Lock mechanism, comprising a hollow casing having an opening, a movable bolt therein, a roll-back having a non-circular driving portion opposite the opening of the casing and adapted to move said bolt, and a lock unit insertable by straight line movement through said opening into said casing and including cylinder and plug members, the latter having a non-circular driving portion corresponding to and adapted to cooperate with the non-circular driving portion of the roll-back, connecting means between said cylinder and plug members permitting relative rotation but preventing relative longitudinal movement therebetween, whereby said members may be assembled and handled as a unit and so introduced into or removed from the casing, interlocking means between said unit and the casing to prevent rotation of the cylinder therein, a washer threaded into the casing for confining said unit therein, and means for locking the washer to the casing against unauthorized removal, said last named means including pin means extending through said washer and parts of said cylinder.

1,917,137. BANANA EXTRACTOR AND ICE CREAM INJECTOR. PHILLIP MARCHIO, North Adams, Mass. Filed July 25, 1932. Serial No. 624,684. 1 Claim. (Cl. 107—1.)



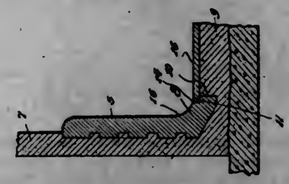
An implement of the character described comprising a straight unbroken tubiform body open at opposite ends, an outwardly tapered and inwardly curved single knife tip at one end of the body, a cylindrical hollow head telescoped on the other end of the body and forming a cell beyond the end of the body joined therewith, the head being formed with openings diametrically opposite each other and of a size substantially the same as the cell, an angularly disposed handle integrally formed with the head, a guard on the head in advance of the handle, and a piston reciprocatingly movable in the body and having a stem passed centrally through the head and having a cross piece forming a hand grip exteriorly of the head.

1,917,188. STORAGE TANK FOR PETROL AND LIKE INFLAMMABLE LIQUIDS. JOHN FORREST MARTYN and ROBERT JACKSON LEGGETT, Durban, Union of South Africa, assignors to Gasolene Storage Patents (Proprietary) Limited, Durban, South Africa. Filed Dec. 15, 1930, Serial No. 502,484, and in Great Britain Sept. 1, 1930. 1 Claim. (Cl. 220—85.)



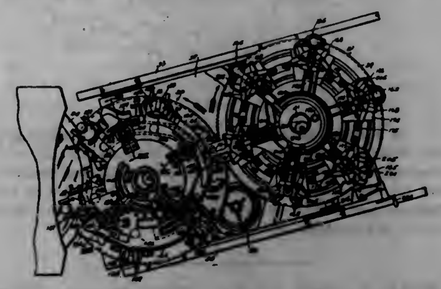
In a storage tank for inflammable or volatile liquids, a flat roof forming a shallow vessel, a float valve controlled inlet for supplying cooling liquid to a pre-determined level in said vessel, there being perforations in the wall of the vessel maintaining a predetermined head of cooling liquid in the vessel and permitting said liquid to overflow down the exterior of the tank wall, a valved conduit communicating with the bottom of the vessel and with the lower portion of the tank to supply the tank with liquid from the vessel so that the stored liquid in the tank is maintained against the underside of the roof by the head of liquid in the vessel above the roof, a valved outlet for the stored liquid in the tank communicating with the tank immediately below the roof, a valved inlet for said stored liquid communicating with the tank at a predetermined level above the bottom thereof, a valved outlet communicating with the bottom of the tank, and a gauging hatch communicating with the tank underneath the bottom of the vessel for permitting the escape of entrapped air between the roof and the surface of the stored liquid within the tank.

1,917,139. TILE. THOMAS E. MCCUTCHEON, Washington, D. C. Filed Aug. 9, 1932. Serial No. 628,077. 2 Claims. (Cl. 72—18.)



1. As a new article of manufacture, a base tile comprising an upright body having its lower portion provided with a downwardly inclined lateral extension the end of which is formed with a transverse rabbet extending the entire width of the tile and opening through the top and front face of said extension to provide an open seat for floor surfacing material and an abutment at the end of the extension for engagement with a floor substructure, the walls of the rabbet being disposed at substantially right angles to each other and defining upper and lower straight edges, one of which indicates the level of the floor surfacing material and the other the level of the floor substructure.

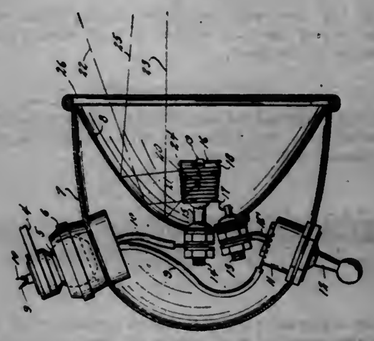
1,917,140. MACHINE FOR FORMING GLASS ARTICLES. JOHN E. MCLAUGHLIN, Alton, Ill., and JESSE H. TREECE and LEONARD D. SOUBIER, Toledo, Ohio, assignors to Owens-Illinois Glass Company, a Corporation of Ohio. Filed Jan. 22, 1930. Serial No. 422,574. 15 Claims. (Cl. 49—5.)



10. The combination of a mold carriage rotatable about a vertical axis, an annular series of molds thereon, each comprising horizontally separable sections, means for individually adjusting the molds each in a direction radial to the mold carriage, means for individually adjusting the molds circumferentially of the mold carriage, a stationary cam, mechanism actuated by said cam for operating the mold sections, and adjusting means between said mechanism and cam by which said mechanism may be adjusted to correspond to adjustments of the mold.

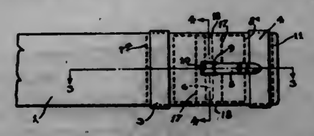
11. The combination of a mold carriage mounted for rotation about a vertical axis, an annular series of molds thereon, an air and vacuum drum mounted for rotation with the mold carriage and comprising an annular chamber divided into a plurality of compartments corresponding in number to the molds of said series, air lines leading from said compartments to the respective molds, means for connecting each said compartment alternately with air pressure and vacuum during each rotation of the mold carriage, a valve in each air line, a cam controlling each said valve while the corresponding said compartment is connected with air pressure, and a separate cam controlling each said valve while the corresponding compartment is connected with said source of vacuum, each of said cams being adjustable to adjustably vary the points at which the valves are opened and closed.

1,917,141. DEFROSTER. LESLIE H. MIDDLETON, Adrian, Mich., assignor to Schwarze Electric Company, Adrian, Mich., a Corporation of Michigan. Filed Oct. 9, 1931. Serial No. 567,872. 2 Claims. (Cl. 219—19.)



1. A defroster for a constant voltage supply, said defroster embodying a parabolic reflector, a winding entirely inward from approximately half of the depth of the reflector, mounting means fixing the winding in said inner half depth and about the axis of the reflector for the winding to extend away from the reflector farther than the effective focus of the reflector, a shell about the reflector assembled with the open front end of the reflector, a universal mounting for the shell, electrical connections for the winding extending through the mounting and a switch carried by the shell for the connections with the winding.

1,917,142. FLEXIBLE BUCKLE BELT. EDWIN S. MIX, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Nov. 30, 1931. Serial No. 578,151. 9 Claims. (Cl. 241—8.)

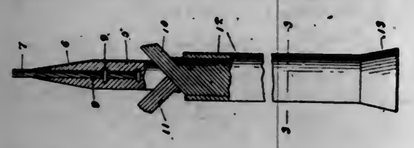


1. A flexible buckle belt, comprising a belt having a buckle end and an end provided with holes, inner and outer loops secured to the buckle end of the belt and spaced apart and projecting outwardly from the outer face of the belt to form openings for the insertion of the other end of the belt over the outer face of the buckle end of the belt, and a tongue having a pivot secured to the belt between the inner and outer loops, said tongue cooperating with the outer loop and adapted to engage the end of the belt having the said holes, the belt between the inner and outer loops constituting the body or the connecting portion of the buckle to form a flexible buckle.

1,917,143. DRILL CABLE SNAP OR CRACKER. DALLAS C. MOFFETT, Logan, Ohio. Filed June 15, 1932. Serial No. 617,416. 2 Claims. (Cl. 24—123.)

1. A device of the character described comprising a solid straight resilient core, two-ply wrappings of fibrous cord

about the core, a protective coating enveloping the wrappings and vulcanised thereto, the said wrappings being reversely extended, and a wire drill line anchored in one



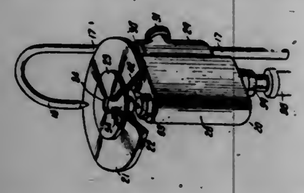
end of the core, said protective coating being enlarged at the end of the core to form a head remote from the anchorage of the line.

1,917,144. MECHANICAL PENCIL. GROVER C. MORRISS, Austin, Tex. Filed Mar. 15, 1932. Serial No. 598,995. 3 Claims. (Cl. 120—14.)



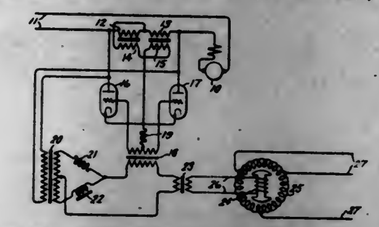
3. In a magazine pencil, a barrel provided with a bore, a tip also provided with a bore for partially closing one end of the barrel, a chambered cylinder revoluble between the barrel and tip, a lead stick holding element normally held from movement in each of the chambers, means for holding the cylinder from turning, means for turning the cylinder to bring any of its chambers into alinement with the bore of the barrel, a screw plunger in the bore of the barrel, a removable pin engaging the threads of the plunger, means operable from the exterior of the barrel for imparting a turning and longitudinal movement to the plunger and means on the plunger to releasably engage with the lead holding means in the chamber alining with the bore of the barrel to advance or to retract the lead holding means.

1,917,145. DEAD WEIGHT GAUGE. GEORGE E. NICHOLSON, Tulsa, Okla., assignor, by mesne assignments, to Refinery Supply Company, Tulsa, Okla. Filed Mar. 15, 1930. Serial No. 436,053. 9 Claims. (Cl. 73—111.)



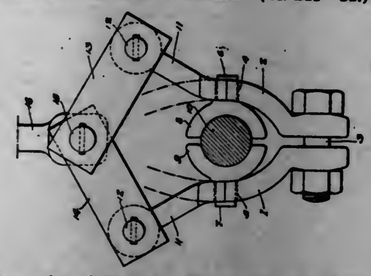
9. In a device of the character described, a vertically disposed casing provided with a first chamber and a second chamber, a port placing the lower portions of said chambers in communication with one another, a first tubular member extending upwardly through the bottom of the casing and having a restricted outlet at its upper end arranged in close proximity to but spaced from the top of the first chamber, means at the lower end of said member for connecting the same with a service line, a second tubular member projecting downwardly through the top of the casing into the second chamber, and having a bore, the inlet of the bore being arranged adjacent to said port, a stem slidable in the bore, a weight supporting head carried by the stem, and a hook-shaped retaining bar connected to the casing and having an end positioned above said head.

1,917,146. REGENERATIVE ELECTRIC REGULATOR. SAMUEL P. NIXDORFF and ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Dec. 16, 1931. Serial No. 581,368. 14 Claims. (Cl. 171—119.)



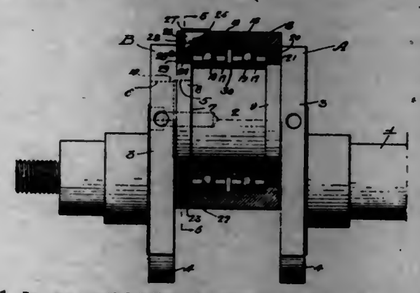
1. An electric translating circuit comprising a source of alternating current, a load device, a discontinuous control electric valve for transmitting energy from said source to said load device, a source of control potential for said valve, and means variable in accordance with the current transmitted through said valve for modifying the action of said control potential to render said valve alternately completely conductive and non-conductive whereby a regenerative oscillation is induced in said translating circuit of a frequency dependent upon the constants of said circuit and said load device.

1,917,147. CABLE CLAMP. JOHN K. OSTRANDER, Philadelphia, Pa. Filed Jan. 12, 1931, Serial No. 508,807. Renewed May 18, 1933. 7 Claims. (Cl. 248—81.)



7. In a cable clamp, the combination with cable-gripping elements, of means including a cable-supporting member constructed to distort under a predetermined abnormal load for reducing the gripping force on the cable of said elements when the load imposed by the cable on the clamp reaches a predetermined maximum.

1,917,148. CRANK SHAFT. HENRY PERAZZOLI, Philadelphia, Pa. Filed Dec. 10, 1932. Serial No. 646,651. 6 Claims. (Cl. 308—179.)



1. In an anti-friction bearing assembly, the combination of a crank shaft having a crank section and pin, a bearing mounted on said pin, said bearing including

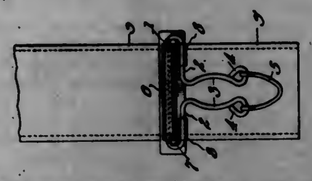
inner and outer one-piece rings interposed by ball bearings, a connecting rod hub embracing the bearings and being provided with a channeled retaining flange at one end thereof, a retaining ring threaded internally at the other end and arranged to abut the annular face of the one-piece outer bearing ring of the adjacent bearing, the periphery of the said retaining ring being provided with a plurality of spaced slots therein, a pin extending inwardly from the hub and engaging one of said slots in said retaining ring for securing the latter in predetermined position with respect to said hub, said pin being removable from said slots to permit adjustment of the retaining ring both inwardly and outwardly with respect to the bearings to permit play occurring in the assembly to be eliminated, and a closure ring overlying the annular face of the retaining ring.

1,917,149. SELF LOCKING SLIDE LOOP. GEORGE H. PERRINE, deceased, Hastings-upon-Hudson, N. Y., by Annie E. Perrine, executrix, Hastings-upon-Hudson, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 29, 1930. Serial No. 505,418. 4 Claims. (Cl. 14—73.)



1. A self-locking slide loop, comprising a loop having an upper cross bar and reversely curved approaching limbs substantially parallel with the upper cross bar and a garment-engaging element arranged at the bottom of the device, and a swinging bar pivoted to the upper cross bar and hanging downwardly therefrom and overlying the reversely curved approaching limbs.

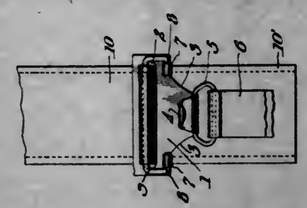
1,917,150. SELF LOCKING SLIDE LOOP. GEORGE H. PERRINE, deceased, Hastings-upon-Hudson, N. Y., by Annie E. Perrine, executrix, Hastings-upon-Hudson, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 29, 1930. Serial No. 505,419. 2 Claims. (Cl. 24—73.)



1. A self-locking slide loop, having a wire body provided with a transverse upper cross bar and a swinging bar of sheet metal pivoted to the body below its upper cross bar and provided with a transverse slot, and a suspender or strap looped about the cross bar and through the swinging bar, the edges of the slot in the swinging bar engaging both sides of the suspender or strap back of the bight in the suspender or strap.
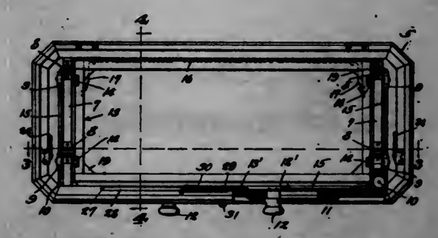
1,917,151. SELF LOCKING SLIDE LOOP. GEORGE H. PERRINE, deceased, Hastings-upon-Hudson, N. Y., by Annie E. Perrine, executrix, Hastings-upon-Hudson, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 29 1930. Serial No. 505,420. 1 Claim. (Cl. 24—192.)

A self-locking slide loop, having a sheet metal body provided with a transverse slot adjacent its upper end, and a swinging bar pivoted to the front of the body below the slot and adapted to engage a suspender or strap by passing the suspender or strap from the back of the body forwardly through the slot and over the swinging bar and then backwardly under the swinging bar and out



through the same slot, whereby under tension the loop and strap are held in adjusted position, the body of the loop terminating in a hook to engage a part to be suspended, the parts of the body not covered by the strap serving to receive and expose advertisements, trademarks, decorations and other matter.

1,917,152. CASKET. GEORGE A. PHELPS, Flemington, W. Va. Filed Nov. 18, 1931. Serial No. 574,818. 4 Claims. (Cl. 27—12.)



3. A burial casket comprising a body portion, a vertically movable frame within the body portion, cords connected with the ends of the frame, pulleys over which the cords operate, slidable bars to which the cords are connected, said bars adapted to operate the cords to elevate the frame to a position flush with the top of the body portion, and means cooperating with the bars for securing the bars, cords and frame against movement.

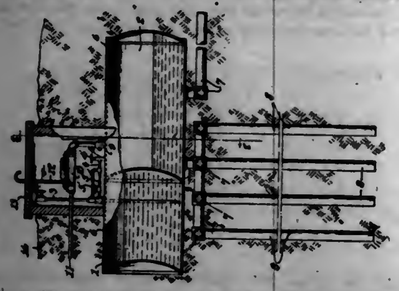
1,917,153. PROCESS OF MANUFACTURING PERYLENE TETRACARBOXYLIC ACID ANHYDRIDE. ALFRED PONGRATZ, Graz, Austria, assignor to Felice Bensa, Genoa, Italy. Filed Mar. 1, 1929, Serial No. 343,854, and in Austria Apr. 6, 1928. 4 Claims. (Cl. 260—123.)

1. A process for manufacturing perylene tetracarboxylic acid anhydride comprising the steps of finely sub-dividing diacyl-dinitril perylene having an acyl group and a nitril group in adjacent peri position and treating it with a salt of an oxygen acid of a group consisting of manganese and chromium capable of forming strongly oxidising acids, in the presence of sulphuric acid.

1,917,154. VAPORIZING SYSTEM FOR COMMERCIAL LIQUEFIED HYDROCARBONS. EDGAR E. PORTER, Charlotte, N. C. Filed May 11, 1932. Serial No. 610,740. 2 Claims. (Cl. 257—122.)

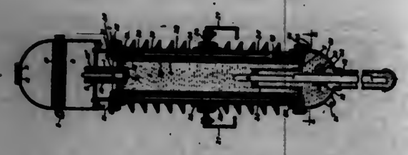
1. In a vaporizing system for liquefied hydrocarbons for individual installation, the combination of plural containers for the storage and use of compressed fuel, a filling pipe leading to one of the containers, a second filling pipe leading from the first filling pipe to the other container, valves for said pipes, a gas delivery conduit leading from one of the containers, a pressure regulating

valve in said conduit, and pipes opening out of the aforesaid container, and said containers and pipes being embedded in the earth for the circulation of fuel for heating



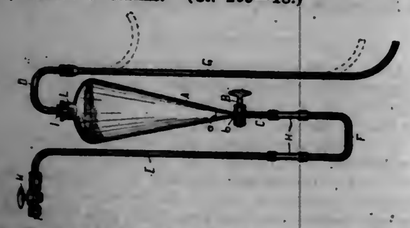
it by making use of the reserve heat of the earth, said pipes comprising a series disposed horizontally below the gas container.

1,917,155. FLUID-BREAK CIRCUIT INTERRUPTER. WILLIAM K. RANKIN, Lansdowne, Pa., assignor to General Electric Company, a Corporation of New York. Filed July 9, 1930. Serial No. 466,641. 3 Claims. (Cl. 200—150.)



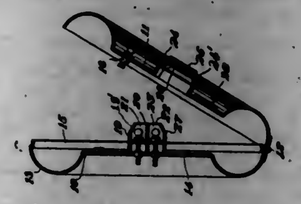
3. An oil circuit breaker of the expulsion type comprising a vertically mounted cylindrical casing containing oil, said casing being restricted in cross section as compared with its length, a stationary contact immersed in said oil disposed centrally of and within the upper end of said casing, a rod contact coacting therewith and movable vertically through the oil within said casing so that an arc drawn between said contacts within the oil is effective to eject oil and the resulting arc gases through the arc and from the upper end of said casing, and an expansion and separating chamber disposed above and freely communicating with said casing for receiving oil and gases during circuit interruption, said chamber being provided with a separating chamber and vent for venting said gases exteriorly of the chamber and permitting return of the oil to said casing.

1,917,156. METHOD OF AND APPARATUS FOR SEPARATING ORE OR METAL OF HIGH SPECIFIC GRAVITY. CARL THEODOR RAUSCHENBUSCH and FELIX RAUSCHENBUSCH, Kirchen-on-the-Sieg, Germany. Filed Nov. 6, 1931, Serial No. 573,508, and in Germany Nov. 7, 1930. 6 Claims. (Cl. 209—18.)



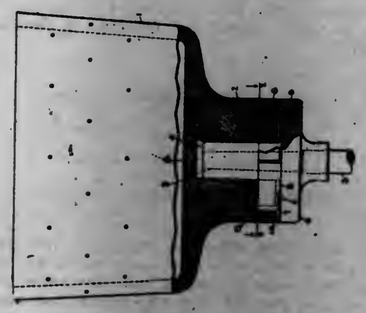
1. The herein described method of separating metal or ore from a mixture of metal or ore and comminuted matter of lower specific gravity, which consists in subjecting a quantity of the mixture to an upwardly directed current of a suitable liquid of such velocity as to stir the said mixture while maintaining the same at a predetermined point, and thereafter partially reducing the quantitative flow of the liquid at said point sufficiently to permit the components of higher specific gravity to sink within the current of liquid in opposition to the flow thereof.

1,917,157. ALL METAL TIRE COVER. LEONARDO RICCI, Arnold, Pa. Filed Dec. 6, 1930. Serial No. 500,613. 1 Claim. (Cl. 224—29.)



In a tire carrier, a casing formed of two hingedly connected sections, a holder having a forward open end carried by and projecting axially from one section, said holder being provided with a tapering open outer end, a sleeve carried by and extending axially from said outer section to receive therein the holder and form a closure therefor, said sleeve being provided with a tapering seat portion arranged interiorly thereof and upon which the tapering forward end of the holder is seated, and a gasket surrounding the said holder and engaging with the inner circumference of the sleeve for preventing the rattling of the sections of the casing when in closed position.

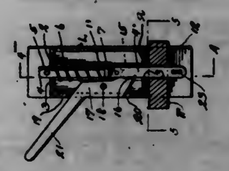
1,917,158. RAYON SPINNING BUCKET DRIVE. HENRY M. RICHARDSON, Marblehead, Mass., assignor to General Electric Company, a Corporation of New York. Filed Dec. 14, 1932. Serial No. 647,208. 8 Claims. (Cl. 118—40.)



1. The combination with a rayon bucket having a hub provided with a central opening and an annular groove, of a driving member having a post which fits the central opening in the hub and a plurality of fingers which fit into said groove and are adapted to be forced against the wall thereof by centrifugal force when the bucket is rotating.

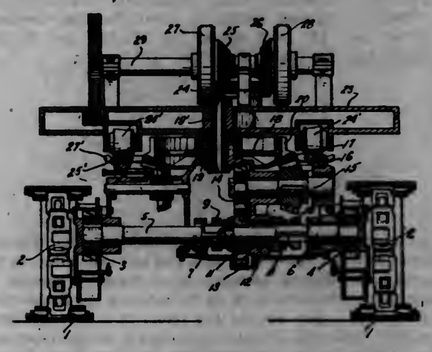
1,917,159. CAR DOOR LATCH. RICHARD A. SCHAAF, New York, N. Y. Filed June 30, 1932. Serial No. 620,261. 2 Claims. (Cl. 292—332.)

1. A latch mechanism for a hasp lever having a cam surface comprising a latch bar, means for throwing the bar into a position to engage the hasp lever, and a movable arm for throwing the latch bar into release position, said arm when the latch bar is in release position being in the path of travel of the cam surface of



the hasp lever when said lever is brought into position for engagement by the latch bar to throw the arm in a direction to allow the latch bar to engage with the hasp lever.

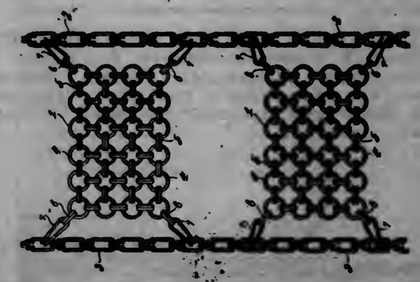
1,917,160. GEAR LOCK FOR COMBINED TURNTABLES AND TRACTORS. HARRY B. SCOTT, Cleveland Heights, Ohio, assignor to The Thew Shovel Company, Lorain, Ohio, a Corporation of Ohio. Filed Aug. 26, 1929. Serial No. 388,572. 15 Claims. (Cl. 212—38.)



1. In a combined turntable and tractor, a tractor frame, a turntable mounted for rotation thereon, supporting and traction members carried by said frame, motor operated means carried by said turntable, drive transmission mechanism between said motor operated means, said turntable and said frame supporting and traction members, a common element in said transmission forming a part of the driving mechanism for said supporting and traction members and said turntable, means for locking said common transmission element to the tractor frame whereby it is rendered ineffective as a drive transmitting means for said motor operated means to said supporting and traction elements, said motor operated means being effective for moving said locking means to locked or unlocked position, and operator-operated control means carried by said turntable for rendering said motor operated means effective as a lock actuating means.

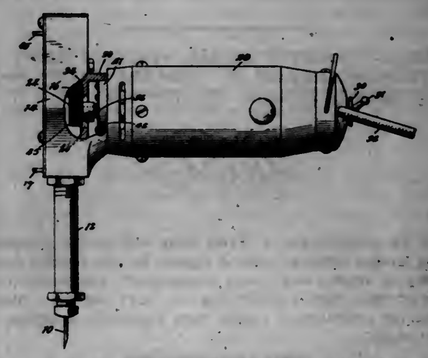
1,917,161. NONSKID TIRE CHAIN. CHARLES LEONARD SMITH, Rochester, N. Y., assignor of one-half to Harry Duckman, Rochester, N. Y. Filed Nov. 18, 1931. Serial No. 574,720. 2 Claims. (Cl. 152—14.)

1. A non-skid tire chain comprising a series of friction pads resting on the tread of the tire with open spaces between them, circular chains extending around the tire on each side thereof, said pads being connected to said chains by diagonal links, each of said pads being made up of parallel rows of rings lying flat on the tire, said rings being connected together loosely by rings standing upright on the tire and being arranged in rows transverse to the tread of the tire and in lines running parallel to the tread of the tire, four of the upright rings



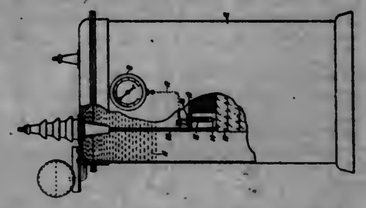
and four of the horizontal rings being arranged substantially in a square and enclosing an open space between them.

1,917,162. MOTOR OPERATED TUFTING MACHINE. LAWRENCE P. SMITH, Dalton, Ga., assignor to "Cabin Crafts", Dalton, Ga., a Corporation of Georgia. Filed June 23, 1932. Serial No. 618,965. 5 Claims. (Cl. 112—80.)



1. A tufting machine comprising a casing, means in said casing for reciprocating tufting elements, means projecting laterally from said casing and forming a handle for said machine, and an electric motor in said handle for operating said tufting-element-operating means, and means on said casing and said handle means cooperating upon relative rotation of said handle means with respect to said casing to detachably secure said handle means to said casing.

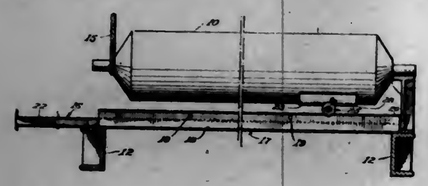
1,917,163. TEMPERATURE INDICATOR. HOWARD O. STEPHENS and FRIEND H. KIERSTEAD, Pittsfield, Mass., assignors to General Electric Company, a Corporation of New York. Filed Apr. 30, 1931. Serial No. 534,026. 1 Claim. (Cl. 73—52.)



The combination with electrical induction apparatus, of a temperature indicator, said indicator including a metallic temperature responsive element located in the

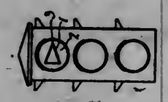
path of leakage flux from said apparatus, and means for adjusting the rate of dissipation of heat from said element.

1,917,164. PRESS ROLL REMOVING APPARATUS. EDWARD T. STREET, Downingtown, Pa., assignor to Downingtown Manufacturing Company, Downingtown, Pa., a Corporation of Pennsylvania. Filed July 18, 1932. Serial No. 623,279. 6 Claims. (Cl. 92—49.)



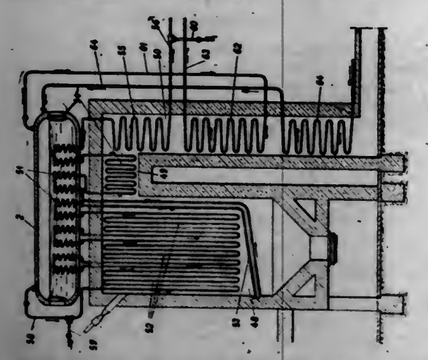
1. In press-roll-removing apparatus, a beam to seat on the press frame in underlying relation to the roll to be removed, a frame including tracks and having a support to engage the beam whereby the track frame may be supported at its inner end as it is moved beneath the press roll, and a dolly having means to engage said tracks including means to support an end of the press roll.

1,917,165. TRAFFIC SIGNAL SYSTEM. MARION B. THOMPSON, Louisville, Ky. Filed May 8, 1930. Serial No. 450,607. 2 Claims. (Cl. 177—329.)



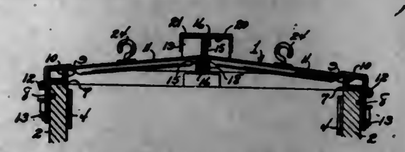
2. In combination, a traffic light unit of the standard type having different colored signals for the routine regulation of traffic, and means permanently associated with one of said signals modifying the light emission therefrom for indicating a special turn regulation applying to that signal.

1,917,166. INDIRECT GENERATION OF STEAM BY MEANS OF SUPERHEATED HEATING STEAM. HANS TREDE and OTTO H. HARTMANN, Kassel-Wilhelmshohe, Germany, assignors to Schmidt'sche Heissdampf-Gesellschaft mit beschrankter Haftung, Kassel-Wilhelmshohe, Germany, a Corporation of Germany. Filed Feb. 7, 1929, Serial No. 338,156, and in Germany Feb. 15, 1928. 5 Claims. (Cl. 122—33.)



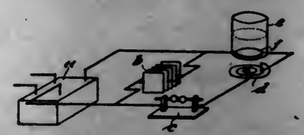
3. Steam generating plant comprising a boiler drum, a plurality of heating elements in the drum, a plurality of superheaters, said heating elements and superheaters being alternately connected in series, and a conduit connecting the steam space of said drum with said series connected superheaters and heating elements.

1,917,167. ROOF FOR CARS. ERNEST F. TUCKE, Niles, Ohio. Filed Oct. 4, 1932. Serial No. 636,234. 3 Claims. (Cl. 105—377.)



1. A roof comprising a frame mounted on the walls of a car body, and having channeled seats, roof sections engageable with the channeled seats and hingedly and detachably secured to the walls, means for forming an interlocking connection between the roof sections when in a closed position and a cat-walk mounted to the roof sections and overlying said last-named means.

1,917,168. PROCESS FOR TREATING FIBROUS MATERIAL. ALFRED UHLMANN, Berlin-Steglitz, Germany. Filed Jan. 18, 1929, Serial No. 333,486, and in Germany Jan. 18, 1928. 8 Claims. (Cl. 8—2.)



1. A process for separating and bleaching the fibres of fibrous material containing fats and oils consisting in immersing the fibrous material in a vessel permeable to magnetic waves containing water having a slight electrical conductivity; then placing the vessel in a high-frequency magnetic field until the fats and oils are broken down and the fibres separated, and removing the fibres from the vessel and drying the same.

2. In a process as set forth in claim 1, adding an aqueous solution of dye to the water to color the fibres.

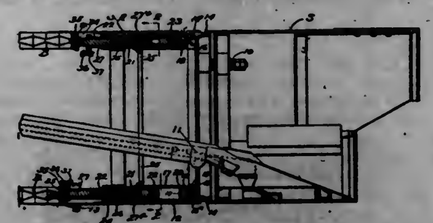
5. In a process as set forth in claim 1, the drying operation consisting in placing the bleached fibres in said vessel containing a small quantity of mineral oil, and subjecting the vessel to the influence of said magnetic field to vaporize the oil.

1,917,169. LIQUID FUEL INJECTION PUMP FOR INTERNAL COMBUSTION ENGINES. RONALD WHITEHAIR VIGERS and ERNEST EDWARD CHATTERTON, London, England, assignors to D. Napier & Son Limited, London, England, a Company of Great Britain. Filed Aug. 13, 1931, Serial No. 556,928, and in Great Britain Sept. 26, 1930. 5 Claims. (Cl. 103—41.)



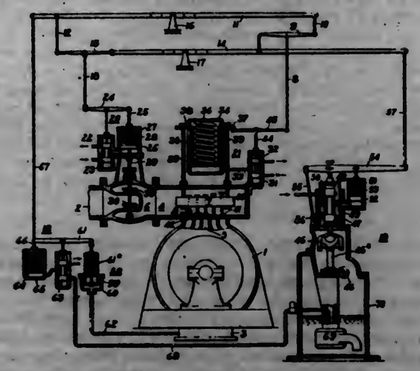
1. A liquid fuel injection pump for internal combustion engines, including in combination a cylinder having a delivery passage, a relief passage and at least one relief port, a plunger adapted to reciprocate within the cylinder and act as a valve to open a relief port during the latter part of the suction stroke and beginning of each delivery stroke and having on the one hand a relief groove therein which uncovers a relief port during the latter part of each delivery stroke so that fuel is only delivered through the delivery passage during an intermediate operative part of each delivery stroke, and on the other hand a delivery groove which communicates with the delivery passage during at least such intermediate part of the delivery stroke but has an edge which covers the delivery passage as the relief groove comes into communication with the relief port, the edge on the relief groove which uncovers the relief port and the edge on the delivery groove which covers the delivery port at the end of the fuel delivery period being formed correspondingly helical, and means for causing relative rotation between the pump plunger and the cylinder whereby the quantity of fuel delivered on each delivery stroke can be varied while maintaining synchronism between the opening of the relief port and the closing of the delivery passage at the end of the delivery period.

1,917,170. METHOD OF AND APPARATUS FOR FORMING TUNNELS. ARTHUR W. WARNER, Media, and ROSCOE F. BALLARD, Chester, Pa., assignors to Tunnel and Mine Machinery Company, Philadelphia, Pa., a Corporation of New Jersey. Filed July 16, 1930, Serial No. 468,338. Renewed Apr. 27, 1933. 9 Claims. (Cl. 61—85.)



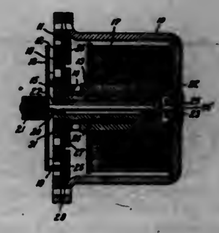
1. In tunneling apparatus, a tunneling shield having a plurality of circumferentially-spaced longitudinally-extending hydraulic jacks therein and pressure supply means for said jacks comprising a pair of manifolds, each manifold communicating with alternate jacks.

1,917,171. GOVERNING MECHANISM FOR ELASTIC FLUID TURBINES. DONALD F. WARNER and EDWARD V. POLLARD, Lynn, Mass., assignors to General Electric Company, a Corporation of New York. Filed Mar. 16, 1931. Serial No. 522,916. 10 Claims. (Cl. 60—64.)



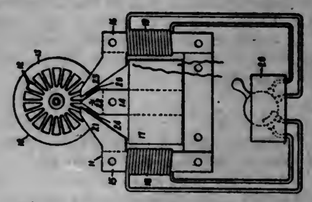
1. The combination with an elastic turbine having an admission and an exhaust conduit, of two valve means for primarily regulating the pressure and the amount respectively of elastic fluid supplied to the turbine, and means for simultaneously positioning said valve means in response to the demand for elastic fluid in the exhaust and of the load output to maintain constant the amount of elastic fluid at varying load output and vice versa.

1,917,172. SYNCHRONOUS MOTOR. HENRY E. WARREN, Ashland, Mass., assignor to Warren Telechron Company, Ashland, Mass., a Corporation of Maine. Filed July 30, 1931. Serial No. 554,033. 10 Claims. (Cl. 172—275.)



1. A synchronous motor comprising cooperating stator and rotor member, the rotor having salient poles, the stator member having a fixed field part for producing the motor fluxes and a relatively rotatable salient pole part of low inertia interposed in the flux path between the rotor and fixed field part, and magnetic means for resiliently resisting rotation of said salient pole part.

1,917,173. ELECTRIC MOTOR. HENRY E. WARREN, Ashland, Mass., assignor to Warren Telechron Company, Ashland, Mass., a Corporation of Maine. Filed Oct. 19, 1931. Serial No. 569,608. 15 Claims. (Cl. 172—278.)



1. An alternating current motor comprising cooperating stator and rotor members, the rotor member having a non-salient pole magnetic portion and a salient pole magnetic portion, the stator having a three-legged field element with pole pieces positioned to simultaneously produce fluxes in both portions of the rotor and spaced apart in a circumferential direction about the rotor, means for energizing said field to produce alternating fluxes of the same polarity in the outer pole pieces and a flux of the opposite polarity in the middle pole piece at any instant, and means for causing the flux in one outer leg to lag behind that in the outer leg.

13. An alternating current motor comprising stator and rotor elements, the rotor having a plurality of disc-shaped members of magnet steel spaced from each other along the axis of rotation, the stator having a field element with salient poles spaced apart in a circumferential direction about the rotor, means for producing alternating fluxes between said poles, said pole pieces having recesses in alignment with rotor disc members and into which the aligned rotor members extend in an interleaving relation so as to provide a large surface area between adjacent stator and rotor parts.

1,917,174. CYLINDRICAL CAN BODY AND BLANK THEREFOR. WALTER W. WILHELM, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed June 11, 1930. Serial No. 460,435. 3 Claims. (Cl. 220—62.)



1. A can body having a side seam wherein the ends are overlapped and joined by solder, the outer lapped portion of said body having a slit extending from the outer edge thereof in the general direction of the side seam, and located between the side limits of the overlapping portions whereby the strain on the solder bond between said lapping portions when the flange is turned on the can body will be distributed so as to avoid rupturing the solder bond joining said lapped portions.

1,917,175. METAL JOINT WASHER OR GASKET. ARNOLD FRANK WILLS, Burnham-on-Sea, and PERCY WILLS, Bridgwater, England. Filed May 14, 1932, Serial No. 611,270, and in Great Britain June 29, 1931. 2 Claims. (Cl. 288—1.)



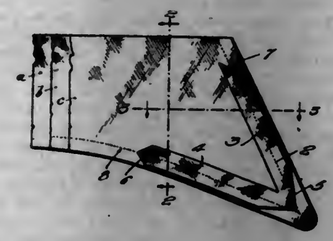
1. As a new article of manufacture a hermetically sealed hollow metal sealing ring having a chamber of substantially annular form filled with a gas under a pressure of the order of three hundred pounds per square inch while the bore of the chamber still conforms to its original cross section.

1,917,176. PROCESS OF IMPREGNATING FIBER BOARD WITH SOLID SUBSTANCES. ALEXANDER WINOGRADOW, New York, N. Y. Filed July 1, 1932. Serial No. 620,537. 13 Claims. (Cl. 91—68.)

1. The process of impregnating fiber board with a chemical soluble in one liquid but insoluble in said liquid mixed with another, consisting in causing said board to be completely impregnated with a solution of said chemical, removing a substantial amount of said solution from within the board by squeezing the board, then causing said other liquid to mix with the solution remaining in the board, whereby said chemical is precipitated throughout the board, then effecting the removal of the remaining liquids from the board.

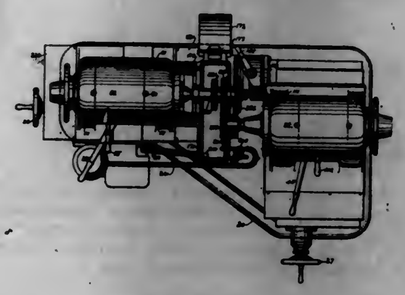
1,917,177. COLLAR. ABRAHAM WOLF, New York, N. Y., assignor to Apollo Shirt Company, New York, N. Y. Filed Nov. 14, 1931. Serial No. 575,059. 2 Claims. (Cl. 2—131.)

1. A soft collar having end portions extended to form wings tapered towards their free ends, the collar being provided with a bordering seam having portions extending along the lower edges and front edges of the wings, and fabric stays for said wings, each stay consisting of a V-shaped strip of fabric conforming to the taper of the wing and having arms disposed entirely within the seams along the front and lower edges of the wing, the arms having their converging ends integrally united and tapered from opposite side edges to a point spaced from the point of the wing and being folded along their lon-



gitudinal centers to provide a stay of double thickness and rear ends of the folded arms being formed with diagonally extending edges.

1,917,178. COMBINATION LAPPING AND TESTING MACHINE FOR GEARS. BERNARD J. WOLFE, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed May 27, 1930. Serial No. 456,006. 6 Claims. (Cl. 51—26.)

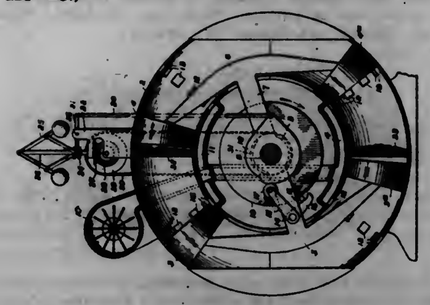


1. In a machine of the class described, a frame, a pair of slides adjustably mounted on the frame, a spindle journaled in each slide so that the axes of the two spindles are parallel, a tail-stock with a rotatable center journaled therein adjustable on the frame in the direction of adjustment of one slide and adapted to cooperate with the spindle carried by said slide to detachably support a spur gear therebetween, means for detachably securing a spur gear to the other spindle, means for adjusting one of said slides in a direction parallel to the axis of its spindle, means for adjusting the other slide in a direction at right angles to the direction of adjustment of the first slide, cooperating means on the frame and tail-stock for guiding the tail-stock in its adjustment, and means for rotating one of said spindles to rotate the gears in mesh.

1,917,179. PREPARATION OF ALLYL ALCOHOL. CHARLES O. YOUNG and GEORGE H. LAW, Charleston, W. Va., assignors to Carbide & Carbon Chemicals Corporation, a Corporation of New York. Filed Dec. 12, 1930. Serial No. 502,004. 3 Claims. (Cl. 260—156.)

1. The process of making allyl alcohol which comprises rapidly and continuously passing propylene oxide vapor over a contact catalyst of the group consisting of alumina, titania and thoria at a temperature between about 200° and about 400° C.

1,917,180. PISTON MOTOR. WALTER ZWICK, Berlin-Westend, Germany. Filed Feb. 9, 1931, Serial No. 514,591, and in Germany Feb. 10, 1930. 3 Claims. (Cl. 123—18.)

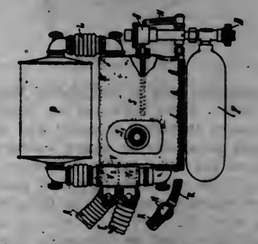


3. A transmission particularly for internal combustion motors for transmitting the movements of the pistons to the shaft comprising in combination with pistons freely movable in one stroke and a shaft, two clutch members coacting with said pistons during the counter-stroke thereby coupling them with said shaft, one clutch member being coupled with the shaft when turning in one direction, and the other when turning in the other direction, and means adapted to positively disengage the clutch member at any desired point of the counter-stroke.

1,917,181. CERAMIC PRODUCTS AND METHOD OF MANUFACTURING THE SAME. HUGO ACKERMANN, Bonn-on-the-Rhine, Germany, assignor to Didier-Werke Aktiengesellschaft, Berlin-Wilmersdorf, Germany. Filed Mar. 31, 1932. Serial No. 602,389. 20 Claims. (Cl. 25—156.)

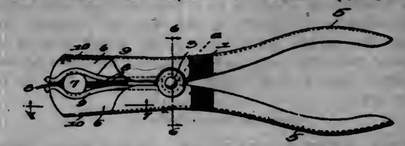
1. The herein described method of manufacturing ceramically bound products, which consists in mixing disintegrated leaning or non-plastic matter adapted to be bound by clay with finely ground raw flint-clay, water, and matter having liquefying action on the flint-clay, moulding the uncastable composition thus obtained and burning the same.

1,917,182. BREATHING APPARATUS. ALEXANDER BERNHARD DRÄGER, deceased, Lubeck, Germany, by Elfriede Dräger, executrix, Lubeck, Germany, assignor to Heinrich Otto Dräger, Lubeck, Germany. Filed July 23, 1930, Serial No. 469,979, and in Germany Aug. 28, 1929. 14 Claims. (Cl. 128—191.)



1. A self-contained breathing device adapted to prevent the breathing air from becoming over-charged with nitrogen, comprising, in combination, an air circuit system, a collapsible breathing bag in said system, an oxygen container, means connecting said container and said bag to conduct oxygen to the latter, movably mounted closure mechanism adapted to control the communication between said connecting means and said bag, the latter having a movable wall which is substantially continuously collapsed upon withdrawal of gas from the interior thereof in proportion to the amount of gas withdrawn, and controlling means adapted to be moved by said collapsing wall and arranged to move said closure mechanism in the opening direction a distance determined by the extent of collapse of said wall, the total flow area of said connecting means being of such magnitude relatively to the rate at which such area is rendered effective to introduce oxygen as the said mechanism increasingly opens, that increasing flow areas for oxygen are exposed by said mechanism until substantially the limit of the opening movement thereof as said bag increasingly collapses, whereby oxygen at progressively increasing rates is fed to the bag as greater drafts of gas are withdrawn therefrom.

1,917,183. POSITIONING TOOL. HARRY W. KULP and MARTIN C. DELLINGER, Lancaster, Pa. Filed Nov. 23, 1929. Serial No. 409,324. 21 Claims. (Cl. 81—5.1.)



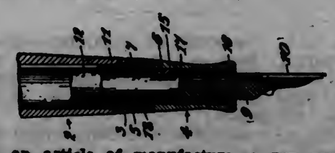
21. A positioning tool comprising a pair of jaws mounted for movement in the same plane toward and from each other, a lug on each lever to engage the face of half of a split sleeve valve keeper adjacent one side thereof, means mounted on each lever and adapted to be engaged by the face of said keeper adjacent the other side thereof, and resilient means for retaining said keeper in engagement with said lug and means.

1,917,184. BRAKE SHOE. JOHN SNEED, Grosse Pointe Shores, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a Corporation of Ohio, trustee for Steeldraulic Brake Corporation, Detroit, Mich., a Corporation of Michigan. Filed Dec. 30, 1929. Serial No. 417,802. 12 Claims. (Cl. 188—251.)



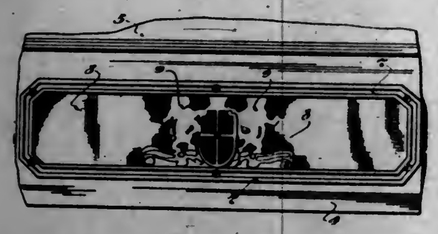
1. An articulated brake shoe comprising a plurality of ring sectors having radial webs, said webs being pivotally connected to form substantially complete articulated ring, each pivotal connection including complementary integral bearing portions on the respective webs.

1,917,185. FOUNTAIN PEN AND THE LIKE. MILFORD GUY SYPHER, Jersey City, N. J., assignor to The Chilton Pen Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed May 11, 1932. Serial No. 610,557. 18 Claims. (Cl. 120—52.)



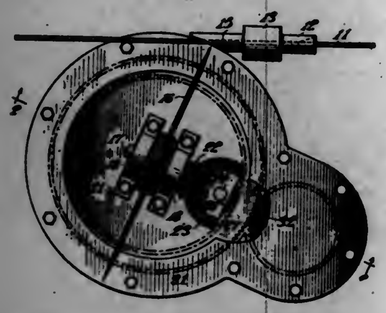
1. As an article of manufacture, a pen section for fountain pens and the like, comprising the combination of an inner member made of substantially non-shrinkable material, and an outer member of shrinkable material, fitting about said inner member.

1,917,186. WINDOW VENTILATOR. GORHAM G. CARLSON, Minneapolis, Minn. Filed Apr. 27, 1931. Serial No. 533,078. 2 Claims. (Cl. 98—97.)



1. In a device of the class described, a closure plate for a ventilating aperture in a window sash and having hinges directly applicable to the sash for hingedly connecting the closure plate thereto for direct endless engagement with the sash surrounding its aperture to close the same, and a drip flange on the inner face of the closure plate.

1,917,187. CUTTING MACHINE. EUGENE CONTI, Mount Vernon, N. Y., assignor to Alexander Hers, New Rochelle, N. Y. Filed Aug. 23, 1930. Serial No. 477,219. 12 Claims. (Cl. 164—60.)

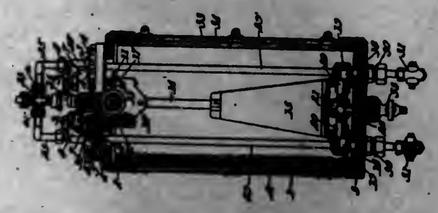


1. In a machine for cutting a continuously formed length of moving material into predetermined lengths, the combination of a rotatable shaft, a fork secured to one end of said shaft, a second shaft rotatably mounted on said fork substantially at right angles to said first mentioned shaft, a disk cutter carried by said second mentioned shaft and rotatable therewith, a third rotatable shaft carried by said fork substantially parallel to said first mentioned shaft, bevel gears connecting said second and third mentioned shafts, and an annular gear coaxially encircling said first mentioned shaft, said first mentioned shaft being rotatable relative to said annular gear, and a pinion on said third mentioned shaft engaging said annular gear, whereby rotation of the first mentioned shaft causes the second mentioned shaft and the disk cutter to rotate.

1,917,188. PROCESS OF ELECTRO-DEPOSITING CHROMIUM. WILLIAM S. EATON, Sag Harbor, N. Y., assignor of one-half to Walter W. Burns, Washington, D. C. Filed Apr. 23, 1926. Serial No. 104,208. 4 Claims. (Cl. 204—1.)

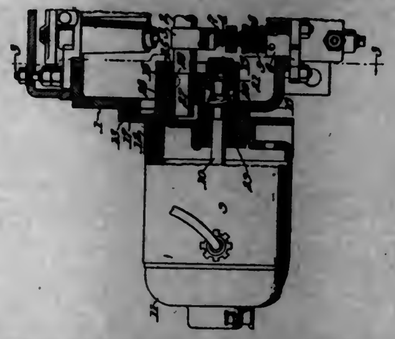
1. A chromium deposition bath characterised by being the result of mixing a water solution of chromic acid and inorganic sodium compounds, the sodium compounds comprising caustic soda to the extent of nearly all of said sodium compounds, the ratio of the chromic acid to the sodium compounds being at least two to one.

1,917,189. RAIL AND FLANGE OILER. FRANK WILLIAM EDWARDS, Chicago, Ill., and NORMAN M. BARKER, Lakewood, Ohio, assignors, by mesne assignments, to The Ohio Injector Company of Illinois, Chicago, Ill., a Corporation of Illinois. Filed Jan. 25, 1929. Serial No. 335,069. 16 Claims. (Cl. 184—3.)



1. A rail and flange oiler including, in combination, a lubricant reservoir of the condensation displacement type, said reservoir provided adjacent to its top with lubricant outlet openings, and a gravity-responsive member arranged within said reservoir and having one end pivotally supported between and adjacent to said outlet openings and provided adjacent to its pivot with valve elements for cooperation with said outlet openings, whereby when said gravity-responsive member hangs axially relatively to said reservoir said openings will be closed by said valve elements and upon relative movement between said member and reservoir one of said valve elements will be unseated and its respective opening opened.

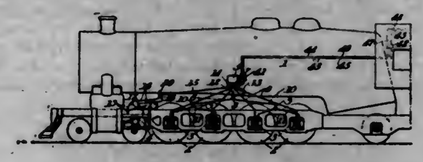
1,917,190. MECHANICAL LUBRICATOR WITH INDIVIDUAL MOTOR DRIVE. FRANK WILLIAM EDWARDS, Chicago, Ill., and FORDYCE B. FARNSWORTH, Wadsworth, Ohio, assignors to The Ohio Injector Company of Illinois, Chicago, Ill., a Corporation of Illinois. Filed Oct. 30, 1929. Serial No. 403,537. 2 Claims. (Cl. 184—27.)



1. The combination with a mechanical lubricator having a casing and a drive shaft, of an individual drive mechanism therefor including a motor and gearing, and a casing for said motor having means whereby the motor is supported upon the casing of the lubricator, said motor casing provided with a housing for said gearing extending within said lubricator casing and including an open-ended bearing member carrying a gear of said gearing with which said drive shaft is engaged in driven relation.

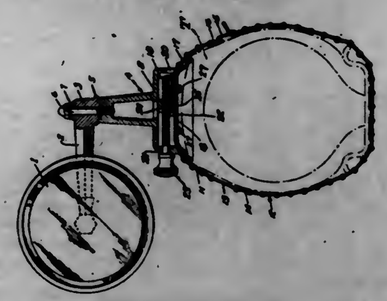
1,917,191. LUBRICATION ASSEMBLY FOR LOCOMOTIVES. FRANK WILLIAM EDWARDS, Chicago, Ill., assignor to The Ohio Injector Company of Illinois, Chicago, Ill., a Corporation of Illinois. Filed Dec. 6, 1930. Serial No. 500,623. 2 Claims. (Cl. 184—7.)

1. In a lubrication assembly for locomotives, the combination with the axle brasses of the driver axles of such locomotives, of means including a force feed lubricator and conduits for supplying lubricant to each of said brasses at two points radially thereof, one of said points being at substantially the diametrical top of each of said axles, said last mentioned point being at times subject



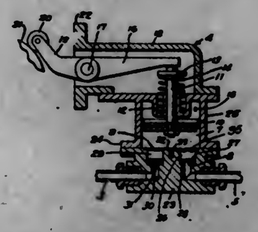
to sealing so that lubricant cannot pass, and means interposed in the feed conduit leading to said point for by-passing lubricant back to the lubricator upon occurrence of such sealing.

1,917,192. SPARE TIRE MIRROR. HENRY HUBBER, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y. Filed May 15, 1930. Serial No. 452,739. 6 Claims. (Cl. 24—19.)



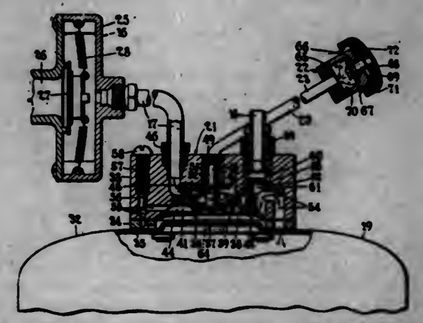
6. In means adapted to support a vehicle accessory upon a spare tire, a standard comprising a body having an elongated channel in the base thereof and a plate for abutment with the spare tire and extending across the base of the body to form with the channel a substantially closed guideway, a take-up block slidable longitudinally in said guideway, a flexible anchoring member passing about said spare tire and having one end engaged with the standard, the opposite end of the flexible anchoring member extending through the standard and engaging said take-up block, and means for varying the position of the take-up block within the guideway.

1,917,193. VACUUM STABILIZER. HENRY HUBBER, Buffalo, and ERWIN C. HORTON, Hamburg, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y. Filed June 23, 1930. Serial No. 463,282. 2 Claims. (Cl. 230—231.)



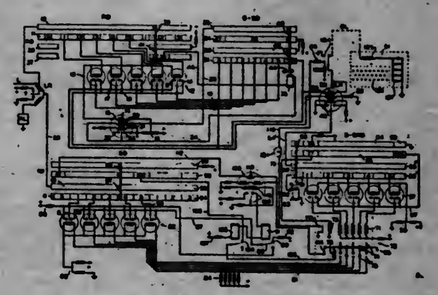
1. An air pump for interposition in the suction line of motor vehicle accessories having a cylinder and a piston therein, inlet and outlet valve chambers for said pump, an orificed plate covering said chambers, ports to said chambers, projections extending downwardly from said plate into said inlet chamber, projections extending upwardly into said outlet chamber, and floatable disc valves movable between the ports and said projections in said chambers in response to fluid pulsations therein.

1,917,194. HORN SYSTEM. HENRY HUBBER, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y. Filed Apr. 5, 1932. Serial No. 603,429. 15 Claims. (Cl. 116—142.)



1. In a fluid pressure horn system for a motor vehicle having an internal combustion engine with a fluid intake, a horn operable by suction, a suction storage tank, a check valved passage between said intake and the tank for allowing fluid to pass only from the tank into the intake, a fluid passage between the tank and the horn, valve means in said last mentioned passage comprising a valve for controlling fluid movement through the passage, a piston for actuating the valve, means whereby one side of said piston is normally subjected to the pressure effective in said tank, and means including an air inlet valve for applying atmospheric pressure to the other side of the piston, whereby upon opening of said air inlet control valve said piston will move to open the valve of said valve means to effect actuation of the horn.

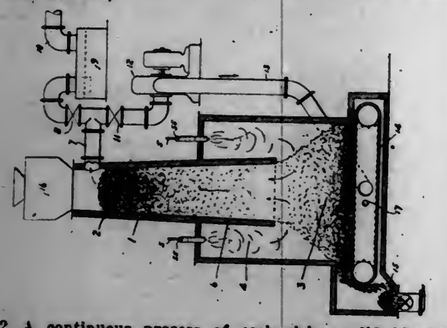
1,917,195. EXTENDED CHANNEL SYSTEM. PAUL A. NOXON, Jackson Heights, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Dec. 18, 1931. Serial No. 581,946. 17 Claims. (Cl. 178—52.)



1. In a telegraph system, a multiplex circuit terminating at a main station, a simplex circuit arranged for non-duplexed or single line operation only, also terminating at said station, means for transmitting corresponding marking and spacing conditions over said multiplex circuit when marking and spacing conditions are received over the simplex circuit, means for transmitting corresponding marking and spacing conditions over said simplex circuit when marking and spacing conditions are

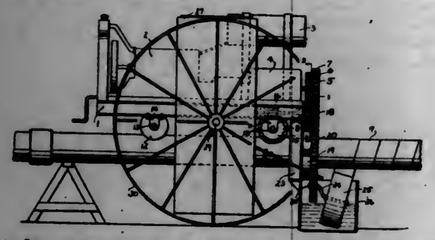
received over said multiplex circuit and means for preventing the repeating of said last marking and spacing conditions back over said multiplex circuit.

1,917,196. PROCESS OF CARBONIZING SOLID BITUMINOUS FUEL. JOSEPH A. PERRY, Swarthmore, Pa., assignor to The United Gas Improvement Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 27, 1929. Serial No. 343,091. 5 Claims. (Cl. 202—7.)



2. A continuous process of carbonizing solid bituminous fuel, which comprises establishing a substantially vertical descending column of solid bituminous fuel, burning secondary fuel other than the material in said column with an oxygen-containing gas having a greater proportion of free oxygen than atmospheric air adjacent the middle portion of said column, admitting all the products of the combustion of the secondary fuel to said column, carbonizing the material in the intermediate portion of said fuel column by said burning of secondary fuel and by said products of combustion, causing products of combustion to ascend through the descending fuel column, taking off a portion of the gas so formed, and recirculating the remainder of the gas so formed from the bottom through the entire fuel column.

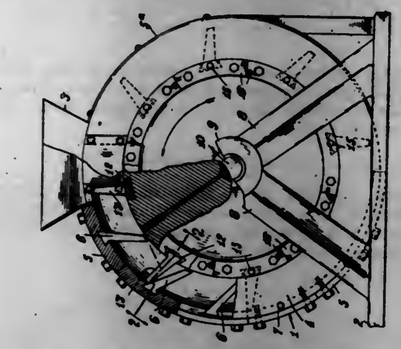
1,917,197. PIPE WRAPPING MACHINE. EUGENE LEONARD ROLFS, St. Louis, Mo., assignor to Johns-Manville Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 29, 1931. Serial No. 533,843. 10 Claims. (Cl. 242—11.)



1. In a pipe wrapping machine adapted to travel along a pipe, a drum rotatable about the pipe, a spool of wrapping material on said drum, a tank containing coating material, and means to rotate said drum to move said spool through said tank and in a planetary path about said pipe, whereby coating material is applied to said wrapping material and the coated wrapping material is wrapped upon said pipe.

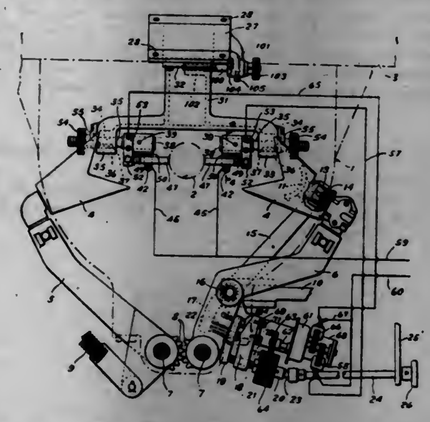
1,917,198. COMMINUTING MACHINE. RUDOLPH SCHEINOST, Chicago, Ill., assignor of one-half to Chas. Hollenbach, Inc., Chicago, Ill., a Corporation of Illinois. Filed Aug. 21, 1931. Serial No. 558,447. 1 Claim. (Cl. 146—123.)

A comminuting machine including a casing, a drum rotatable within and disposed concentric with said casing, and sets of cutters mounted on said casing and on said drum, respectively, the cutting edges of said cutters on said drums being angularly disposed relatively to radial planes of the axis of said drum to cause the said cutting edges of the said cutters to tend to move material coming into contact therewith toward said drum, and said cutters on said drum having their cutting edges disposed angularly to radial planes of said drum in a direction to tend to move material engaged by said cutting edges during rotation of said drum toward the cur-



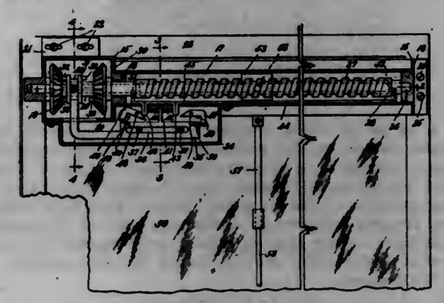
rounding casing, the respective angles of disposition of the cutting edges of the respective sets of knives being at respectively different angles to the said radial planes of the drum and casing and to cause cooperation of said cutting edges to tend to move material cut thereby toward the said drum and effect draw-cuts through said material, and means for effecting lateral adjustment of said respective sets of cutters to vary the distance of the planes of travel of the cutters on the drum with respect to the planes in which the cutters on the casing are disposed.

1,917,199. AUTOMATIC CHARGE GUIDE ADJUSTING MECHANISM FOR GLASS FEEDING APPARATUS. HAROLD A. WADMAN, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed July 30, 1932. Serial No. 626,352. 13 Claims. (Cl. 49—55.)



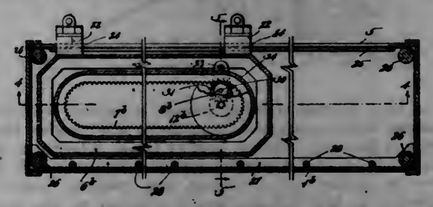
6. In glass feeding apparatus, the combination with a pair of pivotally mounted shear blades for severing mold charges periodically from successive suspended mold charge masses of glass, an adjustable guide for opposing the "batting" action of the shear blades on the upper end portion of each of the several charges, a pair of deflection-detecting elements located at opposite sides of the path of fall of each several charge, said elements being spaced apart to permit each undeflected properly delivered charge to fall between these elements without contact therewith and to cause actuation of one or the other of said elements when a charge having a laterally deflected portion falls between the elements, and means operable by either of said deflection-detecting elements when the latter has been actuated by a falling charge to adjust said guide so as to obviate in a succeeding charge a lateral deflection such as indicated by the actuation of said deflection-detecting element.

1,917,200. WIPER MECHANISM FOR WINDSHIELDS AND THE LIKE. JOSEPH BORNSTEIN, Boston, Mass., assignor to Louis Bornstein, Quincy, Mass. Filed Aug. 6, 1929. Serial No. 383,865. 9 Claims. (Cl. 74—14.)



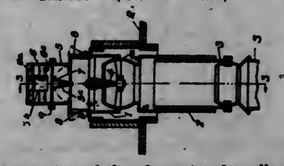
1. The combination of a frame; a carriage movably supported by said frame; a worm shaft for reciprocating said carriage; a continuously driven member; power transmitting mechanism through which said continuously driven member operates said worm shaft, said mechanism being adjustable the reverse the direction of rotation of said worm shaft, a control member for said mechanism that is periodically adjusted alternately in opposite directions in timed relation with the movements of said carriage to cause said power transmitting mechanism to rotate said worm shaft alternately in opposite directions, a pair of latches for positively locking said periodically adjusted control member in its adjusted position during the interval of time between adjustments thereof and means through which said carriage controls and positively operates said latches in alternation.

1,917,201. WIPER MECHANISM FOR WINDSHIELDS AND THE LIKE. JOSEPH BORNSTEIN, Boston, Mass., assignor to Louis Bornstein, Quincy, Mass. Filed Mar. 21, 1930. Serial No. 437,713. 14 Claims. (Cl. 74—14.)



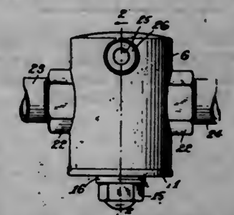
1. In combination, a frame including as a part thereof a tubular housing made at one side thereof with a longitudinal slot; a shaft journaled on said frame that is continuously driven in one direction; a rack-slide within and shielded by said housing made with a longitudinally disposed rack of teeth, said rack-slide being directly mounted upon and slidably supported by said frame so as to be reciprocable longitudinally within said tubular housing while held against lateral movement relatively to said frame; a pinion within and shielded by said housing, said pinion continuously engaging said rack of teeth; a carrier for said pinion that is pivotally supported within said housing to swing on an axis coincident with the axis of said shaft; means within said housing through which said shaft drives said pinion to cause the latter to traverse said rack thereby to reciprocate said rack-slide, a work-performing instrument outside of said tubular housing and means connecting said instrument with said rack-slide so that said instrument is reciprocated by and with said rack-slide, said means extending through said slot.

1,917,202. ROUNDHOUSE EQUIPMENT. FRANS H. C. COPPUS, Worcester, Mass., assignor to Anna M. C. Wechsberg, Vera L. Wood, and Frans H. C. Coppus, trustees, Worcester, Mass. Filed Jan. 20, 1932. Serial No. 587,736. 40 Claims. (Cl. 104—52.)



1. In an apparatus of the character described, an uptake conduit adapted to lead from a locomotive stack, an exhauster adapted to communicate with said conduit, a damper arranged to shut off communication between said conduit and said exhauster and means for insulating said conduit from said exhauster.

1,917,203. FLUID STRAINER. GEORGE J. HEINZ, Roosevelt, N. Y., assignor of one-third to Thomas J. Perry, Brooklyn, N. Y., and one-third to General Engineering Company, a Copartnership comprising Charles F. Semon and Albert F. Semon, Newark, N. J. Filed Aug. 27, 1931. Serial No. 559,627. 2 Claims. (Cl. 210—164.)

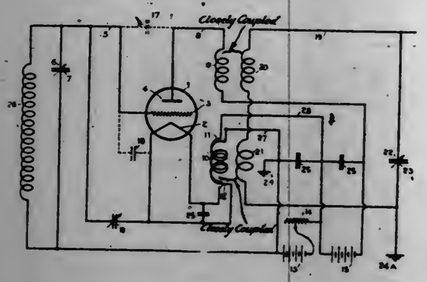


1. In a strainer for pipe lines, a cylindrical casing having one end open and arranged with opposed openings intermediate the ends of the casing adapted to connect the casing in a pipe line, a portion of reduced diameter arranged in the end of the casing opposite to the open end and having a flange extending as a continuation of said portion and in spaced relation to the casing wall and terminating out of alinement with the opposed openings, a plate member having an annular flange to engage the interior wall of the casing to close the open end of the casing and the plate being arranged to be secured to the casing, a cylindrical screen engaged on the exterior of the flange of the portion of reduced diameter and within the annular flange of the plate member, and an outlet opening arranged in the casing to extend in a plane parallel to and in a direction transversely of the axis of the opposed openings and in communication with the portion of reduced diameter of the casing and the interior of the screen.

1,917,204. INDUCTIVE COUPLING ARRANGEMENT FOR ELECTRON TUBE CIRCUITS. LAWRENCE C. F. HORLE, Newark, N. J. Filed Jan. 24, 1930. Serial No. 428,087. 10 Claims. (Cl. 179—171.)

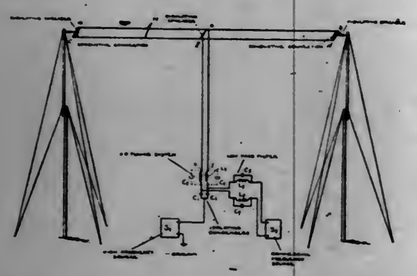
1. A thermionic device comprising a cathode, an anode, and a control electrode, a cathode heating current source,

a cathode heating circuit comprising the source and further comprising two inductive windings in series in the heating circuit and in connection respectively with opposite terminals of the source, said windings being closely inductively coupled, an input oscillation circuit comprising the cathode and control electrode and an inductive winding on which oscillations are impressed, the input circuit further comprising at least one of the windings comprised in the cathode heating circuit, an oscillation circuit comprising the cathode and anode and at least



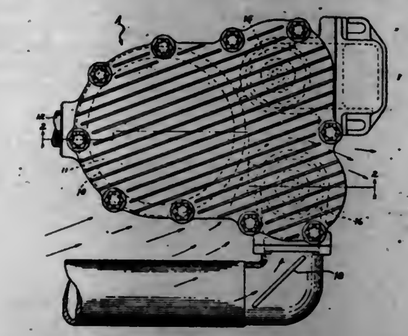
one of the windings comprised in the cathode heating circuit, said cathode-anode circuit further comprising another inductive winding, said other winding being connected into the cathode-anode circuit between the anode and one of the windings comprised in the cathode heating circuit, an output oscillation circuit comprising an inductive winding closely inductively coupled to at least one of the windings comprised in the cathode heating circuit and to said other winding connected into the cathode-anode circuit between the anode and one of the windings comprised in the cathode heating circuit.

1,917,205. ANTENNA SYSTEM FOR SLEET MELTING AND CONDUCTOR THEREFOR. LAWRENCE C. F. HORLE, Newark, N. J. Filed June 20, 1932. Serial No. 618,236. 16 Claims. (Cl. 250—33.)



10. In an antenna system, an antenna conductor consisting of an inner core of comparatively high electrical resistivity and an outer contiguous shell of comparatively low electrical resistivity, said antenna conductor comprising a plurality of conductor elements connected to form a continuous electrical path, means for delivering high-frequency energy to said antenna conductor, means for delivering low-frequency current to two separated points of said antenna conductor which are electrically distant from each other for low-frequency currents, and means for electrically isolating said means for delivering high-frequency energy from said means for delivering low-frequency current, whereby high-frequency current and low-frquency current can circulate simultaneously in said antenna conductor without mutual interaction of said means.

1,917,206. INTERNAL COMBUSTION ENGINE. ROBERT INSLEY, Detroit, Mich., assignor, by mesne assignments, to Continental Aircraft Engine Company, a Corporation of Delaware. Filed Mar. 22, 1930. Serial No. 438,215. 21 Claims. (Cl. 123—171.)

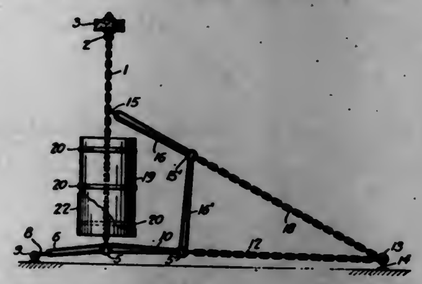


1. In an air cooled internal combustion engine of the radial cylinder type an engine structure having a cylinder and a crankshaft, a propeller operatively connected with said crankshaft, said engine structure subjected to the cooling influences of the air stream induced by said propeller and directed substantially against the front of the engine structure, and an exhaust valve located generally to the rear of said cylinder and lying in the path of a portion of said air stream.

1,917,207. TRIARYL STIBINE SOLUTIONS. LUDWIG KAUFMANN, Berlin-Wilmersdorf, Germany. Filed Nov. 24, 1931, Serial No. 577,162, and in Germany Dec. 3, 1930. 6 Claims. (Cl. 23—250.)

1. As a new composition, a solution of triaryl stibine in fat oil.

1,917,208. FOOTBALL TRAINING DUMMY. JOE H. MADDOCK, Idaho Falls, Idaho. Filed Feb. 1, 1932. Serial No. 590,136. 16 Claims. (Cl. 273—55.)

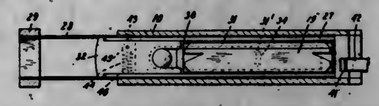


1. In a football training dummy, a padded body, suspension means suspended from above and passing down through the body, resilient holding means attached to the lower end of the suspension means and anchored in the floor or ground under tension, and resilient means in addition to said holding means attached to the lower end of said suspension means and anchored to the floor or ground under tension for opposing the tension of said holding means.

1,917,209. SAFETY RAZOR. JOSEPH MUROS, New York, N. Y. Filed Mar. 10, 1928. Serial No. 260,676. 15 Claims. (Cl. 30—12.)

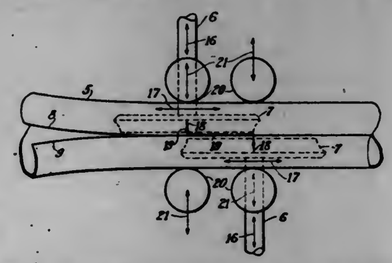
11. A razor comprising a handle adapted to contain a stack of blades, a blade holder pivoted to said handle

being in shaving position when extended at an angle to said handle and being in blade-receiving position when shifted around its pivot to a position in which it forms a continuation of said handle, means for feeding blades



successively from said handle to said blade holder, and means controlling said feeding means so as to prevent the operation of the latter unless said blade holder is in blade-receiving position.

1,917,210. ELECTRIC WELDING MACHINE AND METHOD OF WELDING. JAMES L. ADAMS, Jr., Youngstown, Ohio, assignor to The Youngstown Sheet & Tube Company, Youngstown, Ohio, a Corporation of Ohio. Filed Oct. 17, 1930. Serial No. 489,367. 16 Claims. (Cl. 219—4.)



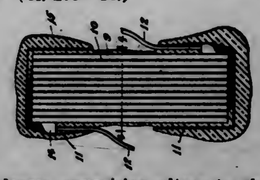
1. In the method of electric welding, the steps comprising providing a single linelike contact with the material on each side of and adjacent to the proposed line of weld, and maintaining said contact lines in spaced relation longitudinally of the material.

1,917,211. BAILER. OMAR A. CAVINS, Taft, Calif. Filed Nov. 14, 1930. Serial No. 495,699. 25 Claims. (Cl. 166—19.)



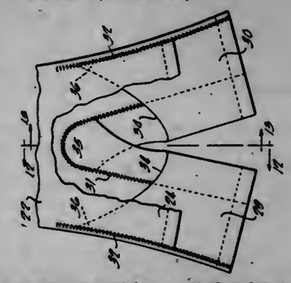
1. In a bailer, the combination of a casing having a sand chamber, with a bottom inlet, and a closed substantially air tight chamber, a valve mounted between the chambers for limited up and down movement independent of the sand chamber, automatic means for effecting a delayed movement of the valve toward its open position when the bailer lands on an obstruction in the well, means for retaining the valve open while resting on the obstruction, and means on the bailer for enabling the valve to be released after withdrawal from the mouth of the well.

1,917,212. CONDENSER. ADOLPH DE CLAIRMONT, Los Angeles, Calif. Filed Oct. 3, 1930. Serial No. 486,249. 4 Claims. (Cl. 175—41.)



4. A condenser comprising alternate sheets of metal foil and glass, and a coating surrounding said sheets, said coating comprising a compound of sulphur, silica and cement.

1,917,213. UNDERGARMENT. WALTER M. HASTINGS, Lawrence, Mass. Filed Nov. 16, 1931. Serial No. 575,183. 1 Claim. (Cl. 2—78.)



An undergarment comprising a tubular fabric cut along longitudinally extending lines to provide right and left leg portions and a rear skirt portion integral with and depending from the trunk portion, and a pair of insets joined to the inner edges of the respective leg portions and to the opposite sides of the skirt portion to provide the legs of the garment, said insets having free concave upper edges corresponding ends of which terminate in upwardly directed portions which overlap at the front of the garment and provide a fly opening, the intermediate portions of said free edges extending downwardly toward the lower end of said skirt portion with their opposite ends extending outwardly toward said opposite sides of said skirt portion and curving upwardly toward the rear to provide a broad seat opening in the rear of the garment, said skirt portion extending across the full width of the back and having its bottom edge terminating just below the free upper edges of the insets to cover the seat opening.

Patents Nos. 1,917,214 to 1,918,233

CARNEGIE LIBRARY OF ATLANTA

THE OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 432—No. 2 TUESDAY, JULY 11, 1933 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.25; single numbers, 25 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
Issue of July 11, 1933	259
Trade-Marks Canceled	260
Adverse Decisions in Interference	260
Notice of Cancellation	260
Renewal of Forfeited Cases	260
Photostat Copies	260
Applications Under Examination	260
Commissioner's Decisions—	
Heath v. Jacks v. Rice	261
Decisions of the U. S. Courts—	
Thompson v. Fawick	261
In re Castonguay	263
In re Hamilton	263
In re Bombow and Grean	265
Sessions v. Schmidt	266
Patent Suits	267
Disclaimers	268
Trade-Marks Published (216 Applications)	269
Trade-Mark Registrations Granted	296
Trade-Mark Registrations Renewed	305
Labels	307
Prints	308
Reissues	309
Designs	310
Patents Granted	314

July 11, 1933

Trade-Marks	283—No.	304,440 to No.	304,692, inclusive.
T. M. Renewals	36		
Labels	35—No.	42,295 to No.	42,329, inclusive.
Prints	10—No.	14,288 to No.	14,297, inclusive.
Reissues	5—No.	18,890 to No.	18,894, inclusive.
Designs	28—No.	80,276 to No.	80,301, inclusive.
Patents	1,020—No.	1,917,214 to No.	1,918,233, inclusive.
Total	1,387		

Trade-Marks Canceled

125,929. Preparation for treatment of certain skin conditions. W. W. Beitenman, Englewood, Colo. Registered July 15, 1919. Canceled June 19, 1933.

272,953. Solidified peroxide of hydrogen. Arthur H. Cox & Co., Limited, Brighton, England. Registered July 15, 1930. Canceled June 19, 1933.

300,264. Pile fabrics. Crompton-Richmond Co., Inc., Crompton, R. I. Registered January 10, 1933. Canceled June 19, 1933.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,792,815, H. S. Chapin, Construction element extension hanger, decided May 31, 1933, claims 7 and 8.

Pat. 1,759,725, A. P. Young and Joseph Hutt, Sound producing device, decided June 21, 1933, claims 1 and 2.

Pat. 1,826,728, H. E. J. Camps, Hull structures of ships and the like, decided May 18, 1933, claims 1, 2, and 3.

Pat. 1,834,233, R. H. Worrall, Harmonic frequency selector and amplifier circuit, decided May 31, 1933, claims 1 and 2.

Pat. 1,849,934, Benjamin Kirsch, Automotive heater, decided June 19, 1933, claims 1, 2, and 3.

Pat. 1,850,207, H. L. Hyde, Stop motion for twisting machines, decided May 31, 1933, claims 1, 2, and 3.

Pat. 1,863,782, H. L. Young, Multi-color attachment for spray guns, decided June 19, 1933, claims 1, 2, and 4.

Notice of Cancellation

U. S. Patent Office, *Washington, June 19, 1933.*

George G. Waldron, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Chanel, Inc., 25 West 54th St., New York, N. Y., to effect the cancellation of the trade-mark registration of George G. Waldron, 117 West 116th St., New York, N. Y., No. 158,157, dated August 22, 1922, and the notice of such proceeding sent by registered mail to the said Waldron at the said address having been returned by the post-office as undeliverable, notice is hereby given that unless said Waldron, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Renewal of Forfeited Cases

A petition for the renewal of a forfeited application need not be signed by the inventor or assignee, but may be signed by the attorney.

A power of attorney in the original application authorizing an attorney to transact all business in the Patent Office in connection with the application construed to be of sufficient scope to include the signing of a petition for renewal and the subsequent prosecution of the application. (*Ex parte Agee*, 101 O. G., 1600.)

Photostat Copies

In ordering photostat copies of United States and foreign patents, when only the number of the patent is given the whole patent, comprising specification and drawing, will be furnished, unless the order specifically states that the "specification only" or "drawing only" is required. Care should be taken in making out orders for foreign patents to give the year of the patent, as in old French and British patents the number will vary according to the year.

Condition of Applications Under Examination at Close of Business June 24, 1933

(Total number of applications awaiting action, excluding Trade-Mark Division, 49,235; Trade-Mark Division, 1,080. Oldest new case, Feb. 24, 1933; oldest amended, Feb. 24, 1933.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Handling Implements	Feb. 24	Feb. 24	614
6708	2. HERRMANN, D. (Act.), Fishing and Trapping; Dairy; Animal Husbandry; Presses; Tobacco; Velocipedes.	Mar. 1	Mar. 6	837
4003	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Apr. 4	Mar. 29	601
7063	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Mar. 6	Mar. 6	584
3628	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Mar. 29	Apr. 1	480
4808C	6. LEWERS, A. M., Carbon Chemistry	Mar. 8	Mar. 8	1,062
5725	7. JARBOE, C. G., Optics; Photography	Mar. 9	Mar. 7	1,060
7514	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Apr. 24	Apr. 17	483
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Apr. 1	Apr. 4	629
6512	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Apr. 3	Apr. 5	491
8067B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Feb. 27	Feb. 25	604
7701	12. HENRY, C. C., Machine Elements	Mar. 13	Mar. 13	593
8006	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Mar. 24	Mar. 24	711
8097	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	Mar. 31	Apr. 6	485
4907	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Mar. 9	Mar. 9	1,188
5612	16. SPENCER, C. J., Telegraphy; Telephony	Mar. 22	Mar. 22	596
5701	17. ARMSTRONG, F. (Act.), Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 24	Feb. 24	1,089
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Apr. 28	May 8	261
4006	19. KENNEDY, A. R., Furnaces and Stoves; Heating Systems; Fuel Burners	Feb. 25	Feb. 25	1,063
6613	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	May 2	Apr. 25	290
7723	21. THOMPSON, T. J., Textiles; Cloth Finishing	Feb. 24	Feb. 24	857
5724	22. RINGLE, D. (Act.), Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Mar. 3	Mar. 3	1,006
7802	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Mar. 3	Feb. 27	596
8083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Apr. 24	Apr. 24	476
5709	25. BLAKELY, C. F., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Mar. 1	Feb. 28	1,046
5898	26. ADAMS, W. M. (Act.), Electricity, Generation; Motive Power	Apr. 6	Apr. 5	454
5705	27. CLARK, W. N. (Act.), Brushing, Scrubbing, and Cleaning; Washing Apparatus	Mar. 24	Mar. 24	486
4628	28. BENSON, A. R., Internal-Combustion Engines	Feb. 24	Feb. 24	760
5082	29. MORRIS, B. N., Woodworking; Tools; Compound Tools; Furniture; Metal Working, Assembling.	Mar. 24	Mar. 23	359
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	Mar. 22	Mar. 23	632
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Feb. 28	Feb. 28	1,253
4086	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Mar. 28	Mar. 29	510
6096	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Feb. 28	Feb. 27	1,214
6625	34. SAPERSTEIN, S. (Act.), Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders.	Feb. 24	Feb. 24	994
3000	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Feb. 27	Mar. 2	702
7024	36. McFAYDEN, A. D. (Act.), Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Feb. 24	Feb. 24	1,281
5830	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Mar. 24	Mar. 24	572
7610	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Feb. 25	Feb. 25	727
4874	39. WHITNEY, F. J. (Act.), Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Mar. 9	Mar. 10	797
7880	40. OBERLIN, J. J., Receptacles	Mar. 8	Mar. 10	1,308
6082	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles: Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices.	Mar. 18	Mar. 9	616
5882	42. CUTTING, H. O., Electric Signaling	Feb. 27	Feb. 24	909
4896B	43. KLINGE, E. F., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Mar. 7	Mar. 9	975
4087B	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Feb. 27	Feb. 25	811
7097	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	Apr. 25	May 2	345
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers	Mar. 10	Mar. 10	569
7600	47. BARKER, H., Clutches and Power Stops; Brakes; Motors	Mar. 8	Mar. 8	1,092
5731	48. ROEPKE, O. B., Electricity, General Applications	Mar. 15	Mar. 7	649
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Feb. 25	Feb. 24	902
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Feb. 24	Feb. 24	970
5626	51. BACKUS, C. D., Radiant Energy	Mar. 27	Mar. 27	798
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Apr. 11	Apr. 15	486
6907	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Apr. 22	Apr. 26	499
5574	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Mar. 1	Mar. 1	820
6867	55. BOWEN, S. T.—Bread, Pastry, and Confection Making; Cutlery	Apr. 7	Apr. 8	304
	Designs	May 29	June 12	277
4726	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Mar. 7	Mar. 2	911
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Mar. 25	Mar. 27	416
5605	58. DOWELL, E. F., Abrading; Typewriting	Apr. 3	Apr. 1	393
4709	59. RICHARD, V. L., Chemistry; Alcohol; Fertilizers; Cement and Lime; Hides, Skins, and Leather; Fuel.	Mar. 14	Mar. 14	630
8006	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Mar. 1	Mar. 1	997
6724	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Horology; Time-Controlling Apparatus.	Feb. 25	Feb. 27	593
7825	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles.	Mar. 24	Mar. 20	1,216
4888	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Feb. 27	Feb. 27	1,084
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue	Mar. 9	Mar. 9	1,080
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Feb. 25	Feb. 27	1,093
2099B	Trade-Marks, Labels, and Prints: F. A. RICHMOND—Trade-Marks	May 27	June 12	842
	Labels and Prints	May 24	June 9	208

DECISIONS IN PATENT AND TRADE-MARK CASES

Commissioner's Decision

HEATH *v.* JACKE *v.* RICE

Decided March 28, 1933

INTERFERENCES—MOTIONS UNDER RULE 109—PRACTICE.

Where new counts for an interference are proposed it is the duty of the Office to ascertain whether those counts are patentable over the prior art and, if the Examiner of Interferences in his decision cites references not previously of record and denies the motion in view thereof, amendments to avoid those references cannot be permitted.

ON PETITION.

Messrs. Wilkinson, Huxley, Bryon & Knight for Heath.

Messrs. Howson & Howson for Jacke.

Messrs. Cheever, Cox & Moore for Rice.

KINNAN, *First Assistant Commissioner:*

The party Jacke filed a petition asking that the Examiner of Interferences be directed to pass upon the question of patentability of certain amended counts and if he finds them patentable to declare an interference between the parties Rice and Jacke, or in the alternative be directed to set for hearing the motion to amend the counts.

The record shows that the Examiner of Interferences rendered a decision in which he granted Jacke's motion to amend as to certain proposed counts and denied it as to others. Thereafter Jacke filed another motion in which he sought to amend the counts as to which his prior motion had been denied and to add an additional count. The Examiner of Interferences refused to set this motion for hearing on the ground that Jacke had ample opportunity to present such claims as he thought necessary, that he did not ask for reconsideration of the references as to the counts originally proposed and that the practice does not contemplate prosecution of proposed counts piecemeal before the Examiner of Interferences.

It was stated by Jacke that the original motion contained forty counts and upon the objection of the Examiner of Interferences he reduced the number of these, that in his decision the Examiner of Interferences cited certain new references and under those circumstances he (Jacke) should be permitted to amend certain of the proposed counts to avoid these references.

When new counts for an interference are proposed it is the duty of the Office to ascertain whether those counts are patentable over the prior art and therefore a search must be made to ascertain whether references, other than those cited in the record, are available. If references are found which in the opinion of the Examiner of Interferences anticipate the counts, the motion must be denied as to such counts. It is incumbent upon a party to an interference proposing the new counts to ascertain to the best of his ability that those counts are patentable and amendments to avoid the references cited by the Examiner of Interferences cannot be permitted.

It is thought that the Examiner of Interferences correctly refused to consider the proposed amended counts. The party Jacke has the right of appeal, if he is of the opinion that the counts which he originally proposed are patentable over the art cited.

The petition is denied.

U. S. Court of Customs and Patent Appeals

THOMPSON *v.* FAWICK

No. 3,114. Decided April 17, 1933

INTERFERENCE—PRIORITY—DILIGENCE.

Record reviewed and *Held* that priority was properly awarded to F., the first to reduce the invention to practice, since T., who was the first to conceive the invention, was not diligent in reducing it to practice from and after the time that F. entered the field.

APPEAL from the Patent Office. Affirmed.

Mr. Justin W. Macklin and *Mr. George M. Soule* for Thompson.

Messrs. Brown, Jackson, Boettcher & Dienner and *Mr. Charles V. Hildebrecht* for Fawick.

BLAND, *J.:*

From a decision of the Board of Appeals of the United States Patent Office, affirming that of the Examiner, awarding priority of invention to Fawick, the senior party. Thompson, the junior party, has appealed to this court.

The invention relates to a transmission system of the type used on automobiles for giving an additional or fourth speed of operation. The single count of the interference recites the details of the structure, but it is conceded that the gist of the invention involved herein lies in the sliding combined clutch and pinion. The other portions of the count relate to features which are old in gearing of this kind. The count reads as follows:

In combination, a gear case, driving and driven shafts journaled in the gear case and piloted into each other and having external bearings in said gear case, one shaft having a slidable pinion splined thereupon, a sleeve journaled eccentrically with respect to said shafts, said sleeve having at one end internal gear teeth adapted to mesh with the pinion, a gear rigid on the other shaft, the sleeve having at its other end gear teeth constantly in mesh with said gear, and cooperating means on said gear and pinion for clutching said parts together for direct drive, said slidable pinion being longitudinally shiftable from meshing position with the internal teeth on the sleeve to clutching position with the gear.

Fawick filed his application on September 26, 1924, which, in this proceeding, is his date of reduction to practice. His proof shows that he conceived the invention August 28, 1924. It thus appears that Fawick filed his application less than one month from the time of his conception, and the two tribunals below concurred in awarding these dates to Fawick, and they are not questioned in this proceeding.

Thompson was the first to conceive, and he was awarded June 3, 1924, for conception, and November

26, 1926, for reduction to practice. Thompson contends that he actually reduced to practice in April or May of 1925. He filed his application on February 15, 1927.

The whole contention resolves itself into the single question: Was Thompson, he being the first to conceive, reasonably diligent in reducing his invention to practice during a period beginning immediately prior to August 28, 1924, and ending on the date of his reduction to practice?

There is much testimony in the case taken by both sides. It is well summed up in the two opinions of the tribunals below. Both tribunals concurred in finding that the testimony did not show diligence on the part of Thompson from just prior to August 28, 1924, to a date of reduction to practice, regardless of whether he was given the date in April or May, 1925, or the date of November, 1926, as the date of his reduction to practice. The Board in its decision, in part, said:

Thompson has presented in evidence blue prints of several drawings and also photographs of some of the structures built by him. His photograph, Exhibit No. 1 does not show the structure recited by the count. The drawing, Exhibit No. 2, dated April 25, 1924, shows a four-speed transmission having internal and external gears in constant mesh. It does not have the slidable pinion recited in the count.

The Exhibit No. 3 drawing discloses the subject matter in issue. It bears date of June 3, 1924, the date accorded Thompson for conception in view of the testimony of Thompson and of his witness Cherry, who made this drawing.

Exhibits Nos. 4, 5, and 6 are drawings showing variations of the sliding gear arrangement, this gear in Exhibit No. 5, however, being one provided with internal instead of external teeth. These drawings are dated respectively, July 8, July 10 and August 10, 1924.

There is another drawing showing a slidable gear dated prior to Fawick's filing date of September 26, 1924. This is Thompson's Exhibit No. 7, dated September 10, 1924. However, it shows a construction not fully responding to the requirements of the count.

Exhibit No. 8 is an assembly drawing of structure responding to the count. It is dated December 15, 1924. Detail drawings of its various parts were made at later dates and three of these have been placed in evidence as Exhibits Nos. 8a, 8b, and 8c. The first device of the slidable pinion type required by the count was constructed from these drawings during the first part of 1925, and was placed in the Ford car of Dove for experimental purposes.

The parties are in sharp conflict as to the result of these tests. The Examiner has held the proofs insufficient to establish successful operation of this device, which was later replaced by another device of similar type but differing in the character of one of the bearings used therein. There is no definite testimony as to the time, duration, or result of the experiments with the second device. The Examiner has accordingly restricted Thompson to November, 1926, the date of alleged successful operation of another device built in accordance with the drawing, Exhibit No. 22, and tested in Cherry's car.

Exhibits Nos. 2–6 inclusive, are all dated prior to Fawick's entry in the field on August 28, 1924. At that time and from then on until about December 15, 1924, Thompson was doing nothing toward the building and testing of any structure responding to the count. His drawing Exhibit No. 7A appears to have been made in October, 1924, but not in connection with the building of any device. His drawings, Exhibits Nos. 11 and 12 were not made until September and October, 1925, instead of September and November, 1924, as stated in the Examiner's decision. During this period of inactivity on Thompson's part, Fawick not only entered the field but also reduced to practice by filing his application.

It is therefore believed that even if Thompson be given the date of May, 1925, alleged in his fourth ground of appeal, instead of the later date of November, 1926, accorded by the Examiner, for reduction to practice, he still must be held not to have exercised due diligence during the latter part of August, the months of September and October, and the first part of December, 1924. We are persuaded also that the Examiner was not in error in restricting Thompson to November, 1926, for reduction to practice, nor in holding that there were other periods of inactivity prior to that date.

During the latter part of 1924, Thompson constructed a device of his Exhibit No. 2 type in which the external and internal gears are constantly in mesh. The device was made in accordance with the drawing, Exhibit No. 18. It was placed in Thompson's Cadillac car on September 24, 1924. The results of the tests are recorded in Exhibit No. 20. Thompson contends that the work on this device should be regarded as necessary or desirable preliminary work to the building and testing of the Exhibit No. 8 device. He claims to have deliberately chosen the constant mesh type for his first tests to facilitate the elimination of noise in the gears.

It seems to us that Thompson gave preference to his constant mesh gear type over his sliding pinion type, and neglected work on the latter in favor of the former. Not only did he build and test the constant mesh gear type first, but he testified he filed an application for patent thereon on August 13, 1924, (Q. 48) whereas his application involved in this proceeding was not filed until February 15, 1927. The devices are so different that an actual reduction to practice of the sliding pinion type could never have been secured by testing the other type. While the internal and external gears were common to the two devices they must necessarily be tested in their new cooperative relation, involving the slidable external gear, before successful operation of the latter type could be demonstrated.

It is a settled rule of law of this court, as it was with the Court of Appeals of the District of Columbia, that concurring findings of the tribunals of the Patent Office on questions of this character, upon appeal, will not be disturbed, unless they are manifestly wrong. *Clancy* v. *De Jahn*, 17 C. C. P. A. (Patents) 714, 36 F.(2d) 131, 392 O. G. 244; *Stern* v. *Schroeder*, 17 C. C. P. A. (Patents) 670, 36 F.(2d) 515, 393 O. G. 3; *Stern* v. *Schroeder*, 17 C. C. P. A. (Patents) 690, 36 F.(2d) 518, 393 O. G. 4; *Oldroyd* v. *Morgan*, 58 App. D. C. 78, 24 F.(2d) 1004, 374 O. G. 4.

We have read the record carefully and considered the points presented in appellant's oral argument and brief, and we are not convinced that the Board committed error in its decision. On the contrary we think it correctly interpreted the evidence and properly applied the law.

It should be noticed that although appellant claimed a conception prior to June 3, 1924, he filed no application for a patent until February 15, 1927, which was approximately three years after his conception and almost two and one-half years after the filing date of Fawick. During the critical period the record discloses that appellant did nothing as far as the invention involved in the pending count was concerned that may properly be regarded as efforts directed towards reducing his invention to practice, except to make drawings which were filed away in the vaults of his company. Making drawings alone cannot be depended upon, under circumstances like those at bar, for proof of diligence. *Paul* v. *Johnson*, 28 App. D. C. 187, 109 O. G. 807; *Watson* v. *Thomas*, 28 App. D. C. 65, 108, O. G. 1590. The tests made in the Cadillac and the test made of the Dove device, for reasons explained by the Board and the Examiner of Interferences, in our opinion, are not sufficient to cover the critical period. Moreover, these experiments and the results obtained therefrom, together with the fact that appellant filed no application for nearly two years after they were made, leads to the conclusion that nothing more resulted from his claimed activities towards reducing to practice than an abandoned experiment. *Smith* v. *Brooks*, 24 App. D. C. 75, 112 O. G. 958.

The Board correctly awarded priority of the invention to the senior party, Fawick, and its decision is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE CASTONGUAY

No. 3,125. Decided April 17, 1933.

PATENTABILITY—FUEL CONTROL AND IGNITION DEVICE FOR GAS RANGES.

Claims for a fuel control and ignition device for gas ranges *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Strauch & Hoffman and *Mr. James A. Hoffman* for Castonguay.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

BLAND, *J.*:

Claims 11 to 17, inclusive, of appellant's application for a patent were allowed by the Examiner. Claims 28 to 33, inclusive, were refused. The Board of Appeals of the United States Patent Office affirmed the action of the Examiner in refusing to allow claims 28, 29, 30, 31, and 33, but reversed the Examiner as to claim 32, and from the adverse decision of the Board, appellant has appealed here.

Claim 28 is illustrative of the claims on appeal and follows:

28. A safety fuel control and ignition device for gas ranges adapted to maintain one or more of the main gas burners of the range in normal operation as long as gas is supplied thereto and to cut off the supply of gas to said burners upon the failure of the ignition means, comprising the combination of a plurality of spaced main gas burners, a source of gas supply therefor, means for controlling and operating said burners independently of each other, a continuously operating pilot burner positioned at a point outside the range of normal lighting proximity to said main gas burners, means cooperating with said pilot burner to effect the ignition of gas issuing from said main gas burners, and thermostatic means operatively associated with said pilot burner so as to be substantially unaffected by the operation of the main burners for cutting off the gas supply of said independently controlled and operated main burners upon the extinguishment of said pilot burner.

The claims were rejected on Schaetzel, No. 1,134,350 of April 6, 1915, and Graf, sr., 1,550,313 of August 18, 1925.

The invention relates to gas burner control in an ignition system of a gas stove or range. The purpose of the invention is to provide safety in operation. Appellant's device consists of the usual arrangement of burners. A pilot light is centrally located between the burners, and ignition pipes lead from the pilot light to the burners. Between the gas supply line and the opening of the pilot burner there is located a thermostatic valve control, and it is so arranged that when the pilot light goes out, the thermostatic shut off valve operates to cut off the main gas supply, and no further gas is distributed to the burners.

Schaetzel relates to a lighting device for gas burners, the drawing showing four burners. Leading to said burners from a centrally located point are pipes which conduct gas from the pilot burner. The burners are lighted from the pilot burner. In Schaetzel there is no thermostatic cut off arrangement for cutting the gas off when the pilot light is extinguished.

Graf, sr., relates to a pilot and gas cut off and shows a cut off between the burner and the supply. It will be noticed that applicant's cut off valve operates from the pilot burner to the valve rather than from one of the main burners to the valve.

It was thought by the Examiner and the Board that there was no invention in combining the two features of the two patents in the manner in which applicant has combined them.

In affirming the Examiner, the Board said:

The Examiner holds that no invention is involved to apply the Graf device to control the flow of gas to the main and pilot burners in Schaetzel. To make this application the pilot disk 34 can be located above the pilot burner opening 19 (Fig. 3) of Schaetzel and the valve 19 can be arranged to control the flow of gas through the main line 7 of Schaetzel. Since Graf intends to have his control applied to a gas stove presumably in the usual way it would appear to involve no invention to apply it to the gas stove of Schaetzel and in the manner indicated above. Applicant points out that the thermostatic element is located at a distance remote from the main burners so as not to be affected by heat from them. We do not see anything of patentable merit in this arrangement of the thermostat as it would naturally be located away from the main burners. We believe that claims 28, 29, 30, 31, and 33 are not patentable over the above references for reasons pointed out above.

We agree with the decision of the Board of Appeals and the same is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE HAMILTON

No. 3,128. Decided April 17, 1933

1. PATENTABILITY—DISCOVERY OF DEFECTS IN PRIOR ART.

The discovery of defects in the prior art is often a very essential element in an invention correcting such defects. When the defect is realized, it may be a very simple matter to utilize old elements to remedy it, but when a new and useful result is secured, invention is not negatived by the fact that the elements employed are separately old.

2. SAME—BOOSTER PUMP APPARATUS FOR FIRE EXTINGUISHING SYSTEMS.

Claims for a booster pump apparatus for fire extinguishing systems *Held* patentable over the prior art.

BLAND, *J.*, dissenting.

APPEAL from the Patent Office. Reversed.

Messrs. Townsend & Decker and *Mr. Lee B. Kemon* for Hamilton.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office, affirming the decision of the Examiner, rejecting claim 8 of appellant's application for want of invention over the prior art; claims 1, 2, 4 and 5 were allowed by the Examiner.

The claim in issue reads as follows:

In a fire extinguishing system provided with a booster pump for maintaining effective pressure in the distributing piping, and with means responsive to a thermostatically controlled decrease of pressure in the system for bringing the pump into operation, automatic and periodically operating testing means therefor comprising a valve connected with the system and normally closed and means acting automatically and independently of any supervisory act on the part of an attendant for periodically or at regularly recurring intervals opening and then closing said valve said means acting independently of the pressure conditions in the distributing piping and means responsive to increase of pressure due to the operation of the pump thus brought about for indicating the operation thereof.

The references relied upon are: Brooks, 1,598,238, August 31, 1926; Lang, 1,606,245, November 9, 1926; Knight, 1,633,107, June 21, 1927; Knight, 1,633,108, June 21, 1927.

The alleged invention covered by the claim on appeal is described in the brief of the Solicitor for the Patent Office in the following terms:

> The application relates to booster pump apparatus for fire-extinguishing systems including supply main A feeding riser E supplying the fuse-controlled sprinkler heads W. The starting gauge G controls the starting and stopping of the electric motor L which drives the booster pump D, the function of which is to increase the water pressure when necessary. An automatic testing device is provided including a valve B periodically opened and closed by automatically operating device T. The pressure changes affect a second pressure device N, the lower pressure closing contact K and actuating indicating device I while a higher pressure caused by proper operation of motor L and the booster pump closes contact K and actuates indicating device I'.

The specification of appellant relates that heretofore it has been the practice for a central supervising station operator to make periodical tests to determine from time to time that the booster pump apparatus was in working condition. This procedure, appellant indicates, is subject to two objections: 1, that the making of the tests is purely at the discretion of the operator, and 2, that a system of indicating circuits was necessary from each installation to the central station. His objective in the present device is to remove the possibility of failure to test upon the part of the operator, thus safeguarding life and property, and also to obviate the necessity of special supervising and signaling circuits.

The appealed claim was rejected by the Board of Appeals on the ground that all of the structure claimed therein except the "automatically and periodically operating testing means" was found in the reference Knight; that while Knight discloses *manually* operated testing means, inasmuch as the references Lang and Brooks disclose *automatic* control of the operating of a lawn sprinkling mechanism, there would be no invention in changing the manual control shown by Knight to an automatic control.

We agree with the finding of the Board with respect to the disclosures of the references, but we are unable to agree that the substitution for a manual control shown by Knight of a control such as shown by appellant does not involve invention.

It is true, as argued by the Solicitor for the Patent Office, that a mere statement that a device is to be operated automatically instead of by hand, without a claim specifying any particular automatic mechanism, is not the statement of an invention. This court has so held. *In re Rundell*, 18 C. C. P. A. (Patents) 1290, 48 F.(2d) 958, 411 O. G. 537; *In re Gill*, 17 C. C. P. A. (Patents) 700, 36 F.(2d) 128, 392 O. G. 493.

The element of the claim involving this point reads:

> * * * means acting automatically and independently of any supervisory act on the part of an attendant for periodically or at regularly recurring intervals opening and then closing said valve. * * *

It will be observed that this element does not call merely for the substitution of automatic opening and closing of a valve which had theretofore been performed by hand, but in addition the means embrace the certain opening and closing of the valve *periodically or at regularly recurring intervals.* It is not therefore merely a substitution of automatic means for an operation which had theretofore been performed by hand, and for that reason we do not think that the cases of *In re Rundell*, supra, and *In re Gill*, supra, are applicable here.

Apparently the Board of Appeals was of the opinion that said cases were not applicable, for neither of them is cited, nor is there any expression in its decision that the claim is not allowable upon the ground that it specifies broadly an automatic means for doing something previously done manually. The Solicitor in his brief makes this contention, but both the Board and the Examiner rejected the claim wholly upon the references.

Before leaving this branch of the case we would observe that in the case of *Bresnahan et al.* v. *Tripp Giant Leveller Co.*, 102 Fed. 899, the Court of Appeals for the First Circuit held valid a claim reading as follows:

> A machine for beating out the soles of boots and shoes, provided with two jacks, two molds, and means, substantially as described, having provision for automatically moving one jack in one direction while the other is being moved in the opposite direction, whereby the sole of the shoe upon one jack will be under pressure, while the other jack will be in a convenient position for the removal of the shoe therefrom.

In said case, like the case at bar, all of the elements claimed were old, but invention was found in the provision for automatically moving the jacks, although no specific mechanism for such automatic movement was set out in the claim.

We next proceed to consider the ground of rejection of the claim upon the references relied upon by the Board of Appeals. The question is whether one skilled in the art, having all the references before him, could, without the exercise of invention, so modify the Knight structure as to embody the element of providing means for periodically, or at regularly recurring intervals, opening and then closing the valve described in said claim, said means acting automatically.

Both Brooks and Lang show devices acting automatically and periodically, or at regularly recurring intervals, in the operation of lawn sprinkling systems. Both of the Knight references and appellant's application relate to *testing* apparatus for fire extinguishing systems. We do not think there is any analogy between *testing* apparatus for fire extinguishing systems and *operating* apparatus for lawn sprinkling systems, but, however this may be, we doubt that it would be obvious to one skilled in the art, upon having the four patents cited as references before him, to modify Knight by incorporating therein the automatic *operating* device shown by Lang and Brooks.

[1, 2] The prior art with relation to the testing of a fire extinguishing system was dependent upon the human element to faithfully and periodically subject the system to certain tests in order to determine its operativeness. Error upon the part of a manual operator might involve the loss of lives and property. Appellant realized this was a serious defect in the prior art, and that life and property would be safer if the liability to such human error could be obviated. The discovery of defects in the prior art is often a very essential element in an invention correcting such defects. *Eibel Process Company* v. *Minnesota & Ontario Paper Company*, 261 U. S. 45, 310 O. G. 3.

When the defect is realized, it may be a very simple matter to utilize old elements to remedy it, but when a new and useful result is secured, invention is not negatived by the fact that the elements employed are separately old. The Solicitor for the Patent Office in his brief states:

> It must be conceded that the automatic control is advantageous and probably advances the practical art.

This is unquestionably true, but we think that it can hardly be said, as held by the Board, that invention is lacking in appellant's application upon the reference Knight in view of either Brooks or Lang. At least, there is in our minds sufficient doubt upon the matter that, in accordance with the general rule, such doubt should be resolved in favor of the applicant.

The decision of the Boards of Appeals is reversed.

Reversed.

U. S. Court of Customs and Patent Appeals

IN RE BENBOW AND GREEN

No. 3,909. Decided April 17, 1933

PATENTABILITY—DUMP WAGONS—DOUBLE PATENTING.

Claims for a dump wagon *Held* unpatentable since not inventively different from the claims of applicant's prior patent.

APPEAL from the Patent Office. Affirmed.

Messrs. Brown, Jackson, Boettcher & Dienner and *Mr. Arthur H. Boettcher* for Benbow and Green.

Mr. T. A. Hostetler and Mr. Howard S. Miller for the Commissioner of Patents.

GARRETT, *J.:*

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming the rejection by the Examiner of a claim for improvement in dump wagons, which claim reads as follows:

> 21. A heavy-duty dump trailer of cart class, comprising an open-bottom container-body, mobile supporting means for said body, including running gear characterized by rolling elements of diameter less than the width of the body opening and medially located axle means associating the body with the running gear, said axle means being arched over the bottom opening and including arms depending from the body and having at their lower ends tilting bearing connection with said gear, whereby the body is supported in elevated position to tilt fore-and-aft about the bearing axis and is substantially balanced but in unstable equilibrium over said axis, and means for dumping the entire contents of the trailer fore-and-aft of said axle means simultaneously, said dumping means comprising dumping doors mounted to swing downwardly and laterally to dumping position, whereby dumping of the load will be uniform fore-and-aft of said axis of balance, and said balance will thus be maintained independent of whether the load is carried or dumped.

The references relied upon are: Benbow et al., 1,706,099, March 19, 1929; and Armington et al., 1,752,056, March 25, 1930.

The application is a division of a prior application, Serial No. 270,745, filed April 17, 1928, which matured into the Benbow et al. reference patent, March 19, 1929. Since the latter is appellant's own patent, and not issued more than two years before the filing of the instant application, it is pertinent as a reference only as to that which is therein claimed.

The following are claims 5 and 9 of said patent:

> 5. A dump wagon comprising a frame, a bed supported thereby, an arched axle structure extending transversely between the sides of said frame intermediate the ends of said bed, said arched axle structure comprising outwardly extending stub axles, endless tread units pivotally supported on said axles at opposite sides of the wagon, dump doors in the bottom of said bed extending forwardly and rearwardly from said arched axle structure, and mechanism for raising said doors to closed position comprising flexible members engaging with said doors adjacent to said arched axle structure and adjacent to the front and rear ends of said bed.
>
> 9. A dump wagon comprising a load carrying bed, a frame therefor comprising a transversely extending arched axle structure intermediate the ends of said frame, longitudinally extending dump doors closing the bottom of said bed forwardly and rearwardly of said arched axle structure, stub axles on said arched axle structure projecting outwardly beyond the sides of said frame, and endless tread units pivotally supported on said stub axles for relative rocking movement, said transversely extending arched axle structure supporting the bed substantially clear of the load dumped by a substantially full bed.

It was found and held by the tribunals of the Patent Office that the construction covered by the appealed claim is substantially the same as that described in the foregoing claims of the patent, except that the appealed claim has an introductory clause, reading "a heavy-duty dump trailer of cart class."

The parent application, which matured into the patent disclosed two forms of dump wagon, one having a small two-wheeled truck at the front end with tongue for tractor attachment and the other having a trailer tongue at the front end adapted also to be connected with a tractor.

The patent specifically covers the first form and is generic in character. It was and is the claim of appellants that the second form is a species under the genus which the patent covers, and they insist that they are entitled to have a divisional patent on a specific form after issuance of the parent patent showing several forms and containing only broad claims.

Of this insistence the Board of Appeals says:

> In our opinion, we are not faced with any such situation. It seems obvious to us that the introductory clause of claim 21 is not limiting but is merely a statement of one form of dumping wagon to which the invention covered by the claims of the patent may be applied and that the construction operates exactly in the same way whether applied to one form of wagon or the other, the invention being solely in the construction of the running gear and its connection with the wagon body, which is fully covered by the claims of the patent.

We have examined the drawings and specifications of the applications with care, being greatly aided in understanding same by well executed models supplied by appellant's counsel, and we are wholly unable to detect any inaccuracy in the quoted statement of the Board.

Every patentable element of the "wagon" form, as same is described in claims 5 and 9 of the patent, is found in the "cart" form upon which the appealed claim is based, and no other element is found.

It is noted that the container body is equipped with, or carried upon, caterpillar wheels or devices.

The front truck of the one, therefore, makes it a four-wheel or "wagon" form, while the other having only the two caterpillar wheels or devices is a "cart" form.

The running gear, the mechanism for operating the dumping doors, the contrivance for supporting the body in elevated position to tilt fore-and-aft about the bearing axis—in short every feature in every detail which is found in the "cart" form described in the claim is exactly the same in the "wagon" form already patented, except that the latter has a two-wheeled truck at its front end with a tongue to which a tractor may be attached for drawing it, while the former has no truck but only a tongue extending out from the front part of the container body.

If the truck part be removed from the patented device, there is left the entire structure of the appealed claim and the truck element is no part of the patentable matter in the patent.

It seems perfectly obvious to us that every patentable feature of the claim on appeal is covered fully and completely by the patent already issued and that to grant the patent here asked would, as was held by the Examiner and by the Board, inevitably result in double patenting.

The so-called specific claim on the "cart" form contains nothing which the so-called generic claims, 5 and 9, do not cover, element for element, and in identical combination. The so-called specific form, therefore, is not distinct and separable from the so-called generic invention. The two are precisely the same in general and in detail. Hence the rule announced in the case of *Thomson-Houston Electric Co.* v. *Ohio Brass Co. et al.*, 80 Fed. 712, cited by appellants, has no application here.

In view of our opinion upon the question of double patenting there is no necessity of any discussion of the estoppel phase of the controversy growing out of the interference proceeding between Armington et al. and appellants.

The decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

SESSIONS *v.* SCHMIDT

No. 3,871. Decided March 6, 1933

1. INTERFERENCE—ISSUE—CONSTRUCTION.

It is a familiar rule that the counts of an interference "are to be given the broadest construction reasonably permissible under whatever limitations they may contain." The word "reasonably" may not "be deleted in applying the rule, and express limitations may not be disregarded."

2. SAME—PRIORITY—RIGHT TO MAKE THE CLAIMS.

Record reviewed and *Held* to establish that Sessions has no right to make a claim corresponding to the count of the interference "when the count is reasonably interpreted and the limitations properly regarded" and that priority was properly awarded to Schmidt.

APPEAL from the Patent Office. Affirmed.

Mr. Charles M. Thomas and *Mr. Francis D. Thomas* for Sessions.

Mr. Eugene E. Stevens and Mr. A. R. Townshend, jr., for Schmidt.

GARRETT, *J.*:

The subject matter of this controversy comprises certain claimed improvements in motor-driven well pumps. A single count is involved which reads as follows:

In a pump, the combination of: a shell arranged to be lowered into a well and providing a lubricant containing chamber; a motor situated in said chamber; pump operating connections in said chamber, driven by said motor; a pump connected with and operated by said connections; and means for placing said lubricant in said chamber under a pressure substantially equal to the pressure outside said shell.

This count appeared as claim 8 in a patent, No. 1,736,094, granted to Schmidt November 19, 1929, upon an application filed December 9, 1924. At the time of the filing of Schmidt's application and at the time of the grant of the patent there was pending in the Patent Office an application by Sessions, Serial No. 476,092, filed June 8, 1921, for motor pump.

Sessions copied the claim 8; interference was duly declared; order having been issued upon Schmidt to show cause why judgment upon the record should not be issued against him, he moved to dissolve the interference on the ground that Sessions had no right to make the count; the Examiner of Interferences held that Sessions might make the count and awarded priority to him; appeal was taken to the Board of Appeals of the United States Patent Office; the decision of the Examiner was reversed, awarding priority to Schmidt. Sessions thereupon took the instant appeal to this court.

Under the state of the record the question of priority rests solely upon the ancillary one of Session's right to make the count and that is the primary issue before us.

The specification of Schmidt's application recites that the claimed invention—

relates particularly to pumping equipment employed in the oil producing industry.

His device is intended for use in deep wells primarily for the pumping of oil to the surface. The device of Sessions, on the other hand, is apparently for the pumping of water from "bored wells, small pits, and the like" of the ordinary shallow type.

It seems apparent that both parties had generally in mind some of the problems incident to constructing pump and motor for operating same in a manner which would admit of their submersion as a unit.

Schmidt's specification, among other things, says:

It is an object of my invention to provide pumping equipment in which the pumping apparatus and the pump actuating mechanism are made in a unit, this unit being lowered into the well.

Sessions' specification recites:

The invention relates to a combined pump and motor which may be submerged in the water to be pumped without injury to the motor * * *.

Both parties have motor-operated pumps, the motors, or operating mechanisms, being enclosed with the pump features, but Schmidt provides a "lubricant containing chamber" as called for by the count, with means for placing the lubricant therein under a pressure which is equal to the pressure on the exterior of the casing.

Sessions shows two chambers that contain lubricants, but these are in the motor itself as distinguished from the lubricant containing chamber of Schmidt located in the shell of Schmidt. The oil in one of Sessions' chambers lubricates the shaft bearings of the motor while the motor field bearings are immersed in the oil of the other chamber.

Obviously, we think, these chambers of Sessions were not intended to perform, and do not perform, the same function with reference to hydrostatic pressure as is performed by the lubricant chamber of Schmidt. They are placed in an entirely different relation to the device, as a whole, from the relation in which Schmidt's chamber is placed and were created for different purposes.

In Sessions the only oil containing chambers shown are features of, and are within, the motor structure. In Schmidt the motor structure is within the lubricant containing chamber. In Sessions whatever resistance there may be to hydrostatic pressure is apparently just the resistance which keeps water *out of* the motor casing; in Schmidt the pressure is for the protection of the shell in which the lubricant containing chamber is situated, being "substantially equal to the pressure outside the shell."

[1] We do not overlook the familiar rule as to broad construction of counts in an interference proceeding. This rule has been often stated to be that the counts are to be given the broadest construction reasonably permissible under whatever limitations they may contain. The word "reasonably" may not be deleted in applying the rule, and express limitations may not be disregarded. *Harris* v. *Henry*, 20 C. C. P. A. (Patents) ——, — F. (2d) ——.

A careful study of the drawings and specifications of the respective parties convinces us that when the count is reasonably interpreted and the limitations properly regarded, it must be held, as was held by the Board of Appeals, that

Sessions does not disclose a construction which aptly responds to the terms of the count.

The decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,198,860, Lesley & Ens, Circuit controller for mechanically playing instruments; 1,198,861, Lesley & Schoen, Circuit controller, D. C. Ind. (Indianapolis), Doc. 1091, *Mills Novelty Co.* v. *Holcomb & Hoke Mfg. Co.* Dismissed without prejudice May 1, 1933.

1,198,861. (See 1,198,860.)

1,231,764, F. Lowenstein, Telephone relay; 1,618,017, same, Wireless telegraph apparatus; 1,408,475, H. D. Arnold, Vacuum tube circuit; 1,465,332, same, Vacuum tube amplifier; 1,573,374, P. A. Chamberlain, Radio condenser, filed May 19, 1933, D. C., S. D. N. Y., Doc. E 76/56, *Radio Corp. of America et al.* v. *Insuline Corp. of America.*

1,251,377, A. W. Hull, Method of and means for obtaining constant direct current potentials; 1,297,188, I. Langmuir, System for amplifying variable currents; 1,702,833, W. S. Lemmon, Electrical condenser; 1,811,095, H. J. Round, Thermionic amplifier and detector; Re. 18,579, Ballantine & Hull, Demodulator and method of demodulation, filed May 19, 1933, D. C., S. D. N. Y., Doc. E 76/57, *Radio Corp. of America et al.* v. *Insuline Corp. of America.*

1,297,188. (See 1,251,377.)

1,321,150, H. C. Root, Controlling valve for vacuum operated power means, D. C., E. D. N. Y., Doc. E 6524, *Bragg-Kliesrath Corp.* v. *W. S. Vogel & Co., Inc.* Decree for plaintiff May 22, 1933.

1,403,475. (See 1,231,764.)

1,423,956, Mitchell & White, Tipless incandescent lamp, filed May 17, 1933, D. C., S. D. N. Y., Doc. E 76/47, *General Electric Co.* v. *I. Ruderfer et al.* Same, filed May 22, 1933, D. C., E. D. N. Y., Doc. E 6955, *General Electric Co.* v. *B. Mendell et al.*

1,461,967, C. Butterfield, Process of making paper folding box, D. C., N. D. Ind. (South Bend), Doc. E 261, *Interstate Folding Box Co.* v. *The Empire Box Corp.* Patent held invalid Jan. 21, 1933.

1,465,332. (See 1,231,764.)

1,526,982, E. W. Hill, Stencil sheet, filed Mar. 27, 1933, D. C., S. D. Ind. (Indianapolis), Doc. E 1464, *A. B. Dick Co.* v. *W. P. Welker.*

1,573,374. (See 1,231,764.)

1,585,295, A. Loomis, Octave key, D. C., N. D. Ind. (South Bend), Doc. 459, *A. Loomis* v. *H. & A. Selmer, Inc.* Patent held valid and infringed Mar. 17, 1933.

1,607,230. (See 1,641,813.) 1,618,017. (See 1,231,764.)

1,641,802. (See 1,641,813.) 1,641,803. (See 1,641,813.)

1,641,813, Johnston & Danly, Tractor; 1,641,802, 1,641,803, P. H. Danly, same; 1,607,230, E. R. Benjamin et al., Cultivator attachment for tractors; Re. 16,252, Ronning & Ronning, Tractor cultivator, D. C., W. D. Mich., S. Div., Doc. E 2588, *International Harvester Co.* v. *Sears, Roebuck & Co.* Dismissed May 20, 1933.

1,658,328, L. Blackmore, Refrigerator control, filed Mar. 15, 1933, D. C., S. D. Iowa (Des Moines), Doc. 4518, *Frigidaire Corp.* v. *F. W. Adams (Adams & Adams.)*

1,683,531. (See Re. 17,393.) 1,702,833. (See 1,251,377.)

1,710,073, 1,714,191, S. Ruben, Electrical condenser; 1,891,207, same, Electrolytic condenser, filed May 17, 1933, D. C., S. D. N. Y., Doc. E 76/50, *Ruben Condenser Co. et al.* v. *The Rudolph Wurlitzer Co.* Doc. E 76/51, *Ruben Condenser Co. et al.* v. *Alan Radio Corp.* Doc. E 76/52, *Ruben Condenser Co. et al.* v. *Howell Electric Motors Co.*

1,714,191. (See 1,710,073.) 1,811,095. (See 1,251,377.)

1,833,581, W. M. Jordan, Fishing lure, D. C., N. D. Ind. (South Bend), Doc. E 467, *South Bend Bait Co.* v. *A. Berman (Berman's Sports Goods Store).* Claim 17 held valid and infringed Apr. 27, 1933.

1,875,259, G. D. Parker, Apparatus for wire binding box; 1,875,260; same, Bundle binding and tying machine, filed May 19, 1933, D. C., N. D. Calif. (Sacramento), Doc. 1149–L, *C. B. Parker et al.* v. *Stockton Box Co.*

1,875,260. (See 1,875,259.) 1,891,207. (See 1,710,073.)

Re. 16,352. (See 1,641,813.)

Re. 17,393, J. Mayer, Hair waving appliance and method; Re. 17,585, same, Permanent hair waving appliance; 1,683,531, G. Decker, Hair waving outfit, D. C., N. D. Ohio, E. Div., Doc. 4275, *The Philad Co. et al.* v. *Modernistic Permanent Wave Machine Co. et al.* Claims 8, 9, 10 of Re. 17,393 held valid and infringed, dismissed as to 1,683,531 and Re. 17,585, May 18, 1933.

Re. 17,585. (See Re. 17,393.)

Re. 18,579. (See 1,251,377.)

Des. 89,292, W. Willheim, Textile fabric, filed May 18, 1933, D. C., S. D. N. Y., Doc. E 76/54, *W. Willheim Co., Inc.*, v. *Lerner Stores Corp. et al.*

Des. 89,296, L. Daniel, Button, filed May 17, 1933, D. C., E. D. N. Y., Doc. E 6951, *B. Blumenthal & Co., Inc.*, v. *Gold Seal Button Works, Inc.*

T. M. 283,409, G. George, Ice cream confection, filed Apr. 5, 1933, D. C., E. D. Tenn. (Greenville), Doc. E 115, *G. Welsh* v. *Southern Maid Dairy Products, Inc., et al.*

Disclaimers

Re. 17,817.—*Edwin A. Jones*, Milwaukee, Wis. GAS FURNACE. Patent dated September 30, 1930. Disclaimer filed June 16, 1933, by the assignee, *L. J. Mueller Furnace Company*.

Hereby enters this disclaimer to that part of the claims in said specification which are in the following words, to wit:

"9. A gas furnace, comprising a heating unit formed of a pair of bolted together, ribbed sections, a serpentine like vertically extending flue opening being formed therebetween, a front cleaning extension formed in said unit and registering with said flue opening, and a door for said opening."

"11. A gas furnace, comprising a heating unit formed of a pair of bolted together sections, a serpentine like vertically extending flue opening being formed therebetween, a front cleaning extension formed in said unit and registering with said flue opening throughout substantially the entire height of the same, and a door for said opening.

"12. A gas furnace, comprising a heating unit formed of a pair of complementary, secured together sections, a vertically extending, curved flue opening being formed therebetween, said sections also forming a lateral cleaning extension in registration with said flue opening and affording direct access to any portion of said curved flue opening, and a door for said extension.

"13. A gas furnace, comprising a unit formed of a pair of complementary, secured together sections, a combustion chamber being formed between the lower portions of said sections, and a vertically extending flue opening of compound curvature being formed between said sections above the combustion chamber, said unit also being formed with an enclosure forwardly of the flue opening registering with the same and affording direct access to the flue opening throughout substantially its entire height for cleaning purposes, and a door for said enclosure.

"14. In a heating apparatus, a unit formed of a pair of complementary sections secured together in enclosure forming relation to provide in said unit a lower combustion chamber, a vertically extending serpentine-like flue thereabove, and a hollow extension above said combustion chamber and projecting slightly outwardly of the flue throughout substantially its entire height and in registration with the same for access for cleaning, each section being formed with a lower, semi-combustion chamber forming portion, a corrugated semi-flue forming portion thereabove, and a slightly forwardly extending semi-cleaning extension forming portion extending lengthwise of the section substantially the vertical distance of the flue forming portion, each section being generally of U-formation in transverse and longitudinal sections.

"15. A gas furnace, comprising a heating unit formed of a pair of bolted together corrugated sections, which in secured together relation have their respective corrugations in staggered relation and laterally offset, a serpentine-like flue opening being formed between said sections and each complementary pair of corrugations forming a course, the adjacent ends of which courses communicate to provide a serpentine-like vertically extending passage, the courses in their vertical relationship being staggered, a front cleaning extension formed in said unit and directly registering with at least two of said courses, and a door for said extension."

1,573,732.—*Floyd J. Metzger*, New York, N. Y. METHOD OF MAKING CALCIUM CYANIDE AND PRODUCT THEREOF. Patent dated February 16, 1926. Disclaimer filed June 14, 1933, by the assignee, *Air Reduction Company, Incorporated*.

Hereby disclaims claims 33 and 34 of said Letters Patent and the subject matter thereof.

1,675,123.—*Floyd J. Metzger*, New York, N. Y., and *George Carl Bauer*, Los Angeles, Calif. METHOD OF AND APPARATUS FOR FUMIGATING. Patent dated June 26, 1928. Disclaimer filed June 14, 1933, by the assignee, *Air Reduction Company, Incorporated*.

Hereby disclaims:

(a) From claims 1 to 13, inclusive, of said Letters Patent, any method of fumigating in which solid cyanide-containing material is not fed to the generating chamber and mingled with the moist gaseous medium therein.

(b) From claims 16 to 18, inclusive, of said Letters Patent, any apparatus for fumigating which does not include means for feeding solid cyanide-containing material to the generating chamber.

1,725,223.—*John Edwin Sturges*, Oakland, Calif. FRUIT PITTER. Patent dated August 20, 1929. Disclaimer filed June 13, 1933, by the patentee.

Hereby enters this disclaimer to that part of the claims in the specification of said Letters Patent which is in the following words, to-wit:

"18. In a fruit-pitting device of the character described, a pit scraper comprising a plurality of radially disposed retractible elements arranged in a transverse relation to the fruit so as to form an expansible circle around the fruit for allowing the fruit pit to be forced therethrough and for simultaneously scraping the meat of the fruit from the pit.

"19. A pit scraper, as defined in claim 18, in which the said elements are slightly tapered at their upper faces toward the center so as to form a seat for the meat of the fruit.

"20. A pit scraper, as defined in claim 18, in which the said elements are slightly tapered at their upper faces toward the center so as to form a seat for the meat of the fruit and in which the corresponding bottom faces are tapered to present a sharp scraping edge and to assist in pushing the pit out of the device."

1,825,962.—*Wilbur G. Laird*, New York, N. Y. GASKET. Patent dated October 6, 1931. Disclaimer filed June 13, 1933, by the patentee.

Hereby disclaims from the scope of claims 1 to 4, inclusive, 6 and 8 of said Letters Patent No. 1,825,962 any pipe joint in which the "gasket" element is not permanently deformed or squeezed in completing the joint.

Your petitioner further disclaims from the scope of claim 4 of said Letters Patent No. 1,825,962 any pipe joint in which the "gasket" is not formed with rounded and smooth edges.

Your petitioner further disclaims from the scope of claims 2 and 6 of said Letters Patent 1,825,962 any pipe joint in which the gasket element is not formed of a metal which is softer than the "opposing faces" of the "connecting members".

1,837,599.—*Sigurd L. Welsee*, Springdale, Conn., and *Lawrence J. Betz*, Astoria, N. Y. COMPUTING MACHINE. Patent dated December 22, 1931. Disclaimer filed May 4, 1933, by the assignee, *Remington Typewriter Company*.

Hereby enters this disclaimer to that part of the claim in said patent which is in the following words:

"4. The combination of a detachable traveling totaliser including a series of gear wheels, an aligning bar carried by and detachable with said totaliser and normally engaging and aligning said series of wheels, key controlled actuating mechanism for said totaliser carried by the frame of the machine, and means operable at the actuation of a key of said actuating means when the totaliser is in the computing zone for disengaging the aligning bar from said wheels before rotation of any of the wheels can be effected."

1,849,683.—*William K. Millholland*, Indianapolis, Ind. MULTIPLE UNIT TURRET TYPE MACHINE TOOL. Patent dated March 15, 1932. Disclaimer filed June 10, 1933, by the patentee.

Hereby disclaims from Letters Patent No. 1,849,683, claims 1 to 6, inclusive, thereof.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 11, 1933

[VOL. 432. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 322,865. THE TILDESLEY COAL COMPANY, Cincinnati, Ohio. Filed Jan. 9, 1932.



"Wizard Will Work Wonders"

No claim is made to the exclusive use of the words "Coal" and "Trade Mark" apart from the mark as shown on the drawing.

For Coal.

Claims use since Dec. 1, 1931.

Ser. No. 337,238. SURPASS LEATHER CO., New York, N. Y. Filed Apr. 27, 1933.

CALLUNA

For Leather.

Claims use since Apr. 1, 1933.

Ser. No. 337,633. THE FLOREX GARDENS, INC., North Wales, Pa. Filed May 9, 1933.

FLOREX

For Cut Flowers and Potted Flowers.

Claims use since Jan. 17, 1907.

Ser. No. 337,805. SELF-VULCANIZING RUBBER CO., Chicago, Ill. Filed May 13, 1933.

Airrule

For Crude Rubber and Latex Chemically Treated and Water Dispersed, Prevulcanized.

Claims use since Jan. 1, 1933.

Ser. No. 337,806. SELF-VULCANIZING RUBBER CO., Chicago, Ill. Filed May 13, 1933.

Selfrule

For Crude Rubber and Latex Chemically Treated and Water Dispersed, Prevulcanized.

Claims use since Jan. 1, 1933.

Ser. No. 338,265. HUGH S. WEBB, doing business as Webb Coal Co., Port Huron, Mich. Filed May 26, 1933.

"SUN-GLO"

For Coal.

Claims use since Feb. 13, 1933.

CLASS 2

Receptacles

Ser. No. 336,559. CARPENTER PAPER COMPANY, Omaha, Nebr. Filed Apr. 8, 1933.



The drawing is lined for green and red. The words "Greenland Paper Bags" are disclaimed apart from the mark shown.
For Paper Bags.
Claims use since Feb. 10, 1933.

Ser. No. 338,198. PROTEX PRODUCTS CO., INC., New York, N. Y. Filed May 24, 1933.

PAKAWAY

For Fiberboard Insect Repellant Boxes and Cabinets.
Claims use since Apr. 3, 1933.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 302,589. MORRIS DRUG COMPANY, doing business as Silver Lustra Co., York, Pa. Filed June 19, 1930.

Silver Lustra

The word "Silver" is disclaimed apart from the mark shown on the drawing.
For Polishes for Glass, Metal and Products Having Similar Surfaces.
Claims use since Jan. 1, 1905.

Ser. No. 320,808. THE M. WERK COMPANY, St. Bernard, Ohio. Filed Nov. 3, 1931.

Alba

Claims use since June 6, 1931.
For Toilet Soap in Bar Form.

Ser. No. 328,921. THE JOHN L. HARDIN LABORATORIES INC., Cincinnati, Ohio. Filed July 20, 1932.

SOAPNO

For Liquid Chemical Compound for Use in Dry Cleaning Fabrics.
Claims use since Apr. 1, 1932.

Ser. No. 332,690. ARTHUR R. EARNSHAW, doing business as Quik Manufacturing Company, Philadelphia, Pa. Filed Dec. 2, 1932.

RE-GLO

For Scouring Compound.
Claims use since Nov. 29, 1932.

Ser. No. 333,274. THE TEXAS COMPANY, New York, N. Y. Filed Dec. 21, 1932.

TEXALENE

For Dry Cleaning Fluid.
Claims use since Dec. 12, 1932.

Ser. No. 336,700. THE WILBUR WHITE CHEMICAL COMPANY, INC., Owego, N. Y. Filed Apr. 12, 1933.

SPEEDSOPE

For Liquid Soap for Cleaning Tile, Asphalt-Tile, Composition, Terazzo, Marble, and Wood Floors and Floor-Coverings of Linoleum, Cork, Rubber, and the Like, and Painted or Varnished Woodwork.
Claims use since Feb. 20, 1933.

Ser. No. 336,823. FULLERIZING, INC., Cleveland, Ohio. Filed Apr. 15, 1933.

FULLERTEX

For Agent Employed Primarily as a Dry Cleaning Preparation in Cleaning and Dyeing Processes.
Claims use since Dec. 19, 1932.

Ser. No. 337,318. THE WASHAL CO., INC., Brooklyn, N. Y. Filed Apr. 29, 1933.



Applicant disclaims the term "Washal" apart from the mark as shown on the drawing.
For Granulated Soaps, Such as Cleaning Soaps.
Claims use since February, 1931.

Ser. No. 337,553. BILTRITE MOTOR EQUIPMENT CO. INC., New York, N. Y. Filed May 6, 1933.

BILTRITE

For Motor Vehicle Brake-Renewer Compounds, Fabric Dry Cleaner Compounds and Preparations, Compositions and Chemical Compounds for Dry Cleaning, Abrasive Papers and Cloths, Chemically Treated Cloths and Steel-Wool Pads, Cleaning Compounds and Metal Polishes for Motor Vehicles; Grease, Paint, and Oil Removers in the Nature of a Soap Preparation; Cleanser for the Hands, Automobile Top Dressing, Fabric Dry Cleaner, Road Tar Remover Preparation.
Claims use since July 2, 1928.

Ser. No. 338,252. S. H. KRESS & CO., New York, N. Y. Filed May 26, 1933.

White Swan

For Shoe Polish.
Claims use since Feb. 1, 1933.

Ser. No. 338,271. THE REALSHINE COMPANY, INC., Galveston, Tex. Filed May 25, 1933.



The drawing has been lined for color, but it is to be understood that any color may be used, particularly black, brown, or tan.
For Shoe Polish.
Claims use since May 9, 1933.

Ser. No. 338,279. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed May 27, 1933.



The drawing is lined for black, green, and yellow.
For Shaving Cream.
Claims use since May 15, 1931.

Ser. No. 338,313. DONNER & HELLEGERS, INC., Passaic, N. J. Filed May 29, 1933.

DONELLENE

For Domestic Dry Cleaning Preparation, Especially Recommended for Silks.
Claims use since Jan. 19, 1932.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 326,882. L. B. ALLEN COMPANY, INCORPORATED, Chicago, Ill. Filed May 9, 1932.



The descriptive words "Old Reliable Soldering Paste" are disclaimed apart from the mark shown.

For Soldering Materials—Namely, Soldering Paste, Soldering Liquid, and Soldering Stick.

Claims use since Oct. 23, 1930.

Ser. No. 331,715. GENERAL CONFERENCE OF THE LIFE-SAVIOR APOSTOLIC BENEVOLENT CHURCH, Denver, Colo. Filed Oct. 29, 1932.



For Laxative Pills.

Claims use since 1907.

Ser. No. 334,309. SAM HAGLER, New York, N. Y. Filed Jan. 25, 1933.

Mineralava

For Beauty Clay Face Powder, Cold Cream, Vanishing Cream, Rubbing Alcohol, Hair Tonic, and Lilac Toilet Waters.

Claims use since Sept. 1, 1922.

Ser. No. 334,932. IRA W. ROYER, doing business as Quix Products Co., Canton, Ohio. Filed Feb. 18, 1933.

QUIX

For Water Softener Having Incidental Cleansing Properties.

Claims use since Sept. 14, 1932.

Ser. No. 335,429. A. A. VANTINE PRODUCTS CORP., New York, N. Y. Filed Mar. 2, 1933.

Embassy

For Toilet Preparations and Cosmetics—Namely, Face Powder, Lipstick, Lip and Cheek Rouge, Cold Cream, Cleansing Cream, Facial Cream, Skin Lotion, Skin Softener, Eyebrow Pencil, Perfume, and Compacts.

Claims use since Feb. 10, 1933.

Ser. No. 335,594. ELWOOD J. GOODIER, doing business as The Goodier Company, Dallas, Tex. Filed Mar. 11, 1933.

Purple Drops

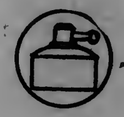
Reserving unto itself all of its common-law rights, applicant disclaims sole rights to the words "Purple Drops" apart from the mark as shown.

For Medicinal Nasal Drops.

Claims use since Mar. 6, 1933.

Ser. No. 335,627. AROMEL CORPORATION, New York, N. Y. Filed Mar. 14, 1933.

AROMEL



For Perfumes.

Claims use since Mar. 8, 1933.

Ser. No. 336,250. JOSEPH BARSKY, doing business as Moth-Mist Laboratories, Atlantic City, N. J. Filed Mar. 31, 1933.

MOTH-MIST

For Preparation for Use in Exterminating Clothes Moths, Peach Tree Borers, and Other Insects.

Claims use since Mar. 1, 1929.

Ser. No. 336,649. L. E. JONES, doing business as The No. 49 Company, Houston, Tex. Filed Apr. 11, 1933.

49

For Insect Killer in Liquid Form, Laxative, Salve for Local Application for Allaying and Soothing Skin Irritations, Antiseptic, Prickly Heat Lotion, Aspirin Tablets, Sore Throat Preparation, and Liver Pills.

Claims use since Jan. 1, 1933.

Ser. No. 337,053. TRIPOLI BARBERS SUPPLY COMPANY, INC., Philadelphia, Pa. Filed Apr. 21, 1933.

VITEX

For Hair Tonics.

Claims use since Dec. 22, 1932.

Ser. No. 337,054. VITALITY MILLS, INC., Chicago, Ill. Filed Apr. 21, 1933.

HAPPY-CHICK

For Medicine Used in the Treatment of Poultry Diseases.

Claims use since Jan. 2, 1929.

Ser. No. 337,169. REYBURN & GEMZA, Bridgeport, Conn. Filed Apr. 25, 1933.

BLACK

ACE

For Corn Solvents—Namely, a Preparation Recommended for the Relief of Corns.

Claims use since Mar. 14, 1929.

Ser. No. 337,270. PARFUMERIE ST. DENIS, New York, N. Y. Filed Apr. 28, 1933.



For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs; Skin Whitener in Liquid, Cream, and Solid Form; Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations Suitable for the Darkening of Eyebrows and Eyelashes, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair

Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Creams, Nail Bleaches, Nail Powders, Nail Polishes, Witch Hazel, Peroxide, Petroleum Jellies, Witch Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum Perfumes, and Toilet Water.
Claims use since Apr. 11, 1933.

Ser. No. 337,276. DAVID STRUSSMAN, doing business as Oyster-X Company, New York, N. Y. Filed Apr. 28, 1933.

OYSTER-X TONIC

The words "Oyster" and "Tonic" are hereby disclaimed apart from the other features of the mark as shown on the drawing.
For General Health Tonic in Tablet Form.
Claims use since Mar. 1, 1933.

Ser. No. 337,366. PHYSICIANS AND HOSPITALS SUPPLY COMPANY, INC., doing business as Ulmer Pharmacal Company, Minneapolis, Minn. Filed May 1, 1933.

ULMER Quality

The word "Quality" appearing on the drawing is disclaimed.
For Pharmaceutical Preparation, for the Medical or Injection Treatment of Varicose Veins.
Claims use since Apr. 12, 1933.

Ser. No. 337,450. VI-FOODS COMPANY, Boston, Mass. Filed May 3, 1933.

VITACON

For Concentrated Vegetable Compound, Rich in Many Vitamines, for Use as Tonic and Health Builder, Prepared by Cutting Up Dehydrated and Compressing Vegetables, Retaining the Vitamine Contents and Selling in Powdered Pulverized, Bulk, Capsule, Tablet, or Liquid Form.
Claims use since Apr. 12, 1933.

Ser. No. 337,473. BERNARD M. KEENE, doing business as The B. M. Keene Co., Indianapolis, Ind. Filed May 4, 1933.

BILEZYME

For Medicinal Preparation in Tablet Form for Use as an Anti-Acid, Liver Stimulant, Diuretic to the Kidneys, Intestinal Digestant, and Tonic Laxative.
Claims use since May 1, 1928.

Ser. No. 337,493. LOU JEROME WEITZMAN, doing business as Weitzman & Levy, New York, N. Y. Filed May 4, 1933.

Checks

For Medicated Chewing Gum for Use as an Antacid.
Claims use since May 2, 1933.

Ser. No. 337,565. DELMA SCULL HAYDEN, doing business as Eye-Ons Company, Toms River, N. J. Filed May 6, 1933.

EYE-ONS

For Medicine for the Treatment of the Eyes.
Claims use since Apr. 25, 1933.

Ser. No. 337,663. ELIZABETH ARDEN, INC., New York, N. Y. Filed May 10, 1933.

REDHEAD

For Lipsticks and Rouge.
Claims use since December, 1931.

Ser. No. 337,700. KIN-SEPTIC COMPANY, doing business as York Pharmacal Company, St. Louis, Mo. Filed May 11, 1933.

PRO-PHY-SAN

For Antiseptic Preparation Used as a Mouth Wash, Dentifrice, Breath Purifier, Throat and Nasal Spray, Deodorant, Gargle, and Skin Lotion.
Claims use since Apr. 4, 1932.

Ser. No. 337,706. ELIZABETH PETZ, Adams, Mass. Filed May 11, 1933.

Petzide

For Insecticide Specific Against "Japanese Beetles," the Same Being a Powder Consisting of a Mixture of Borax and Sugar.
Claims use since Feb. 1, 1933.

Ser. No. 337,741. GENERAL DRUG COMPANY, New York, N. Y. Filed May 12, 1933.

NEVWILT

For Preparation for Keeping Cut Flowers Fresh and Promoting Early Budding of Plants.
Claims use since Mar. 21, 1933.

Ser. No. 337,757. REMINGTON RAND INC., Buffalo, N. Y. Filed May 12, 1933.

DEXIGRAPH

For Photographic Chemicals, Photo Developing and Fixing Compositions.
Claims use since Feb. 25, 1929.

Ser. No. 337,759. ERNEST G. RUHUP, doing business as Scientific Laboratories of America, San Francisco, Calif. Filed May 12, 1933.

SLEN-DER-OIDS

For Reducing Compound in Capsule Form for Reducing Weight.
Claims use since Aug. 1, 1914.

Ser. No. 337,780. ERNESTO V. GALIARDO, doing business as B. O. K. Co., New York, N. Y. Filed May 13, 1933.

B·O·K

For Preparation for the Treatment of Indigestion.
Claims use since 1928.

Ser. No. 337,859. MOJESTE LABORATORIES, New York, N. Y. Filed May 15, 1933.

MOJESTE

For Antiseptic Powder for a Douche and a Deodorant.
Claims use since Sept. 1, 1932.

Ser. No. 337,883. THE L-B CHEMICAL CO., Canton, Ohio. Filed May 16, 1933.

Luba

For Hand Lotion, After Shaving Lotion, Vanishing Lotion, Cleansing Cream, Facial Astringent, and Powder Base.
Claims use since July 5, 1931, on hand lotion, after shaving lotion and vanishing lotion; since Jan. 5, 1933, on cleansing cream; since Jan. 28, 1933, on facial astringent, and since Apr. 19, 1933, on powder base.

Ser. No. 337,900. U. S. PHOSPHORIC PRODUCTS CORPORATION, New York, N. Y. Filed May 16, 1933.

WHITE BAND

For Insecticides.
Claims use since Apr. 8, 1933.

Ser. No. 337,904. ORCHID JOY, New York, N. Y. Filed May 15, 1933.

Orchid Joy

For Cleansing Cream.
Claims use since August, 1932.

Ser. No. 337,912. THE CHAMPION FIBRE COMPANY, Canton, N. C. Filed May 17, 1933.

ROSCOTE

For Sodium Resinate and Emulsified Binders for Coal Dust.
Claims use since May 3, 1933.

Ser. No. 337,931. QUINTESS, INC., New York, N. Y. Filed May 17, 1933.

PERMAPOINT

For Cosmetics—Namely, Lipsticks.
Claims use since May 9, 1933.

Ser. No. 338,004. HEALTH PRODUCTS CORPORATION, Newark, N. J. Filed May 19, 1933.

POUL-TRATE

For Cod Liver Oil Concentrate.
Claims use since Jan. 23, 1933.

Ser. No. 338,118. GREGORY B. STOLBERG, doing business as The Stolberg Laboratories, New York, N. Y. Filed May 22, 1933.

Fruisen

For Laxatives.
Claims use since May 1, 1931.

Ser. No. 338,192. HYNSON, WESTCOTT & DUNNING, INCORPORATED, Baltimore, Md. Filed May 24, 1933.

AKTYN *Sunburn-* CREAM

Applicant makes no claim to the exclusive right to use the words "Sunburn-Cream" apart from the rest of the mark shown in the drawing.

For Compositions for Preventing and Treating Sunburn.
Claims use since April, 1930.

Ser. No. 338,280. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed May 27, 1933.



Applicant makes no claim herein to the representation of a carton appearing on the drawing, or to any of the words appearing on the drawing other than "Colgate". The drawing is lined for red.

For Dental Cream.
Claims use since Feb. 15, 1933.

Ser. No. 338,356. THE BUROMIN COMPANY, Pittsburgh, Pa. Filed May 31, 1933.

calgon

For Water Softening and Water Conditioning Chemical for Industrial, Laundry, and Semi-Industrial Use.
Claims use since May 4, 1933.

CLASS 10

Fertilizers

Ser. No. 338,281. THE COLORADO FUEL AND IRON COMPANY, Denver, Colo. Filed May 27, 1933.

SILVERTIP

For Fertilizer.
Claims use since Nov. 12, 1932.

CLASS 11

Inks and Inking Materials

Ser. No. 333,695. ACME PRINTING INK COMPANY, Chicago, Ill. Filed Jan. 6, 1933.



For Printing Ink.
Claims use since May, 1932.

Ser. No. 336,852. THE AULT & WIBORG COMPANY, New York, N. Y. Filed Apr. 17, 1933.

Dash

For Writing Inks.
Claims use since Mar. 30, 1933.

Ser. No. 337,841. CROWN RIBBON & CARBON MFG. CO., Rochester, N. Y. Filed May 15, 1933.

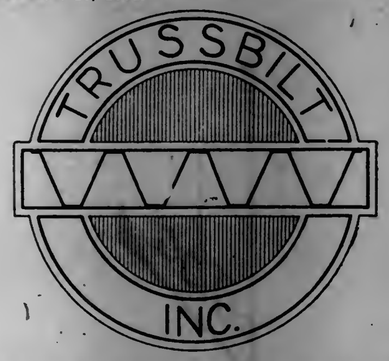
DURO

For Carbon Paper.
Claims use since Sept. 3, 1919.

CLASS 12

Construction Materials

Ser. No. 332,131. TRUSSBILT, INC., Minneapolis, Minn. Filed Nov. 14, 1932.



Registration is not sought for the word feature "Trussbilt" but for the combination as shown on the drawing. The drawing is lined for red.

For Hollow Sheet Metal Units for Doors, Frames, Louvers, Moldings and Shapes, Elevator Entrances, Metal Window Sash and Metal Window Frames, Floors, Walls, Roofs, Partitions, and Forms for Concrete Structure.
Claims use since June 9, 1931.

Ser. No. 337,528. JOHNS-MANVILLE CORPORATION, New York, N. Y. Filed May 5, 1933.

FIBROCEL

For Thermal Insulation Material.
Claims use since July 9, 1930.

Ser. No. 337,881. HARRY T. CAMPBELL SONS COMPANY, Towson, Md. Filed May 15, 1933.



The words "A Pavement for Permanence" are disclaimed apart from the other features of the mark shown in the drawing.

For Building Stone, Asphaltic Concrete, and So-Called Hot and Cold Mix Asphaltic Concrete for Construction of Surfaces and Beds for Roads and Streets.
Claims use since Nov. 1, 1932.

CLASS 15

Oils and Greases

Ser. No. 319,422. SUN OIL COMPANY, Philadelphia, Pa. Filed Sept. 25, 1931.



For purposes of registration but reserving all common law rights therein, applicant disclaims the phrase "The Only True Blue" and the word "Blue" apart from the mark as shown.

For Gasoline.
Claims use since Sept. 14, 1931.

Ser. No. 320,324. SUN OIL COMPANY, Philadelphia, Pa. Filed Oct. 22, 1931.



The words "Coal Kote" are disclaimed apart from the mark shown in the drawing.

For Oil to be Sprayed on Coal for the Purpose of Laying Dust.
Claims use since Sept. 24, 1931.

Ser. No. 323,529. THE EL DORADO REFINING COMPANY, El Dorado, Kans. Filed Jan. 28, 1932.



For Gasoline.
Claims use since Dec. 27, 1931.

Ser. No. 335,979. ALOX CHEMICAL CORPORATION, New York, N. Y. Filed Mar. 28, 1933.

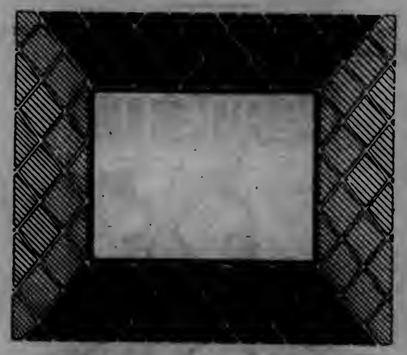
CASTOPENN

For Lubricating Oils, Gasoline, and Lubricating Greases.
Claims use since June, 1932.

CLASS 16

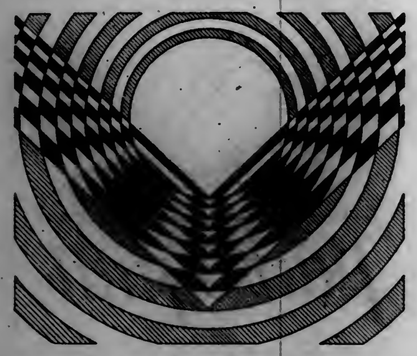
Paints and Painters' Materials

Ser. No. 337,448. TOCH BROTHERS, INC., New York, N. Y. Filed May 3, 1933.



For Dry, Paste, and Ready-Mixed Paints; Paint Enamels, Stains, Fillers, Varnishes, Lacquers, Driers, Bronzing Liquids, Primers, Surfacers, and Thinners.
Claims use since Apr. 7, 1933.

Ser. No. 337,449. TOCH BROTHERS, INC., New York, N. Y. Filed May 3, 1933.



The drawing is not lined for color.
For Dry, Paste, and Ready-Mixed Paints; Paint Enamels, Stains, Fillers, Varnishes, Lacquers, Driers, Bronzing Liquids, Primers, Surfacers, and Thinners.
Claims use since Apr. 7, 1933.

Ser. No. 338,043. GOLDBLATT BROS., INC., Chicago, Ill. Filed May 20, 1933.

GOLD-SPAR

The word "Spar" appearing on the drawing is hereby disclaimed apart from the mark shown.
For Varnishes.
Claims use since September, 1932.

Ser. No. 338,381. THE THRESHER VARNISH COMPANY, Dayton, Ohio. Filed May 31, 1933.

SYN·AMEL

For Quick Drying Enamel for Automobiles, Trucks, and Floors, Furniture, and Woodwork.
Claims use since Mar. 16, 1932.

Ser. No. 338,397. BENNETT GLASS & PAINT COMPANY, Salt Lake City, Utah. Filed June 1, 1933.



For Self-Polishing Floor Wax and Paste Floor Wax.
Claims use since Oct. 1, 1932.

Ser. No. 338,467. SOCONY-VACUUM SPECIALTIES, INCORPORATED, New York, N. Y. Filed June 2, 1933.

SANILAC

For Dressing for Oiling and Cleaning Floors and Woodwork.
Claims use since Mar. 30, 1933.

CLASS 17

Tobacco Products

Ser. No. 335,494. HARVEY R. BETHKE, Milwaukee, Wis. Filed Mar. 6, 1933.



No claim is made for the representation of the cigarette apart from the mark as shown in the drawing.
For Cigarettes.
Claims use since Mar. 2, 1933.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 337,895. THE STERNE-JAY CORPORATION, New York, N. Y. Filed May 16, 1933.

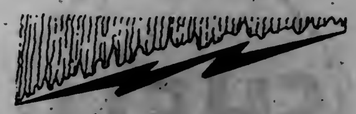


The portrait appearing in connection with the present mark is merely fanciful.
For Automobile Seat Covers.
Claims use since Apr. 1, 1933.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 325,389. DIASCOPE CORPORATION, LTD., San Francisco, Calif. Filed Mar. 22, 1932.



For X-Ray Tubes, Electrical Laboratory Furnaces, Electrically Operated Mixer and Vibrator Machines for Compounding Substances, and Electrical Melting and Casting Machines for Molding Metals.
Claims use since July 1, 1928.

Ser. No. 335,439. WILSON WELDER & METALS CO. INC., North Bergen, N. J. Filed Mar. 1, 1933.

MERCUR-ARC

For Electric Arc Welding Machines.
Claims use since Feb. 18, 1933.

Ser. No. 337,315. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Apr. 29, 1933.

KENMORE

For Electrically Operated Vacuum Cleaners.
Claims use since Apr. 15, 1932.

Ser. No. 337,735. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed May 12, 1933.

KODAFLECTOR

For Electrical Floodlighting Unit.
Claims use since Feb. 18, 1933.

Ser. No. 338,284. GENERAL CABLE CORPORATION, New York, N. Y. Filed May 27, 1933.

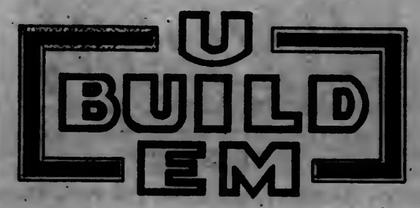
HH

For Electrical Conductors.
Claims use since Apr. 21, 1933.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 337,068. THE ELMBERG COMPANY, Ladysmith, Wis. Filed Apr. 22, 1933.



For Toy Furniture and Wood Toys—Namely, Toy Boats, Toy Aeroplanes, Toy Carts, Toy Wheelbarrows, and Like Wood Toys.
Claims use since Aug. 23, 1932.

Ser. No. 337,593. BEST & CO., INC., New York, N. Y. Filed May 8, 1933. Under 10-year proviso.

Best & Co.

For Toys, Games, and Sporting Goods—Namely, Dolls, Rubber Balls, Stuffed Balls, Rubber Toys, Stuffed Animals, Rattles, Inflated Rubber Beach and Water Toys, Doll Carriages, Sand Pails and Shovels, Juvenile Vehicles, Musical Blocks, Musical Chairs, Musical Carriages, Musical Cradles, Rocking Horses, Swings, Play Yards, Beach Toys, Golf Tee Holders.
Claims use since 1884.

Ser. No. 337,921. JOSEPH B. LEIGHTON, New York, N. Y. Filed May 17, 1933.

PARI MUTUEL

For a Table Board Game Played with Playing Pieces and Cards.
Claims use since May 8, 1933.

Ser. No. 338,224. JO-LO NITES, INC., New York, N. Y. Filed May 25, 1933.

JO-LO NITES

For Card Game.
Claims use since May 4, 1933.

Ser. No. 338,359. HOOPER D. CHURCHILL, doing business as Churchill Company, Los Angeles, Calif. Filed May 31, 1933.

CHEK-O-GRAF

For Board Games Played with Pieces and/or Chips.
Claims use since Feb. 15, 1933.

Ser. No. 338,427. HANS P. NELSON, New York, N. Y. Filed June 1, 1933.

Rinson

For Pony Polo Mallets and Crooks.
Claims use since Feb. 1, 1929.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 331,334. GELLMAN BROS., Minneapolis, Minn. Filed Oct. 18, 1932.



The drawing is lined for green. The words "Garnishing Set" and all notations on the representations of medals are disclaimed apart from the other features of the mark depicted in the drawing.
For Tools for Household Use—Namely, a Special Implement for Paring and Coring Fruits and Vegetables, Having the Incidental Functions of a Fish-scaling Knife; a Special Cap-Equipped Implement for Cutting and Forming Ball-Like Objects from Fruits, Vegetables, Butter, and the Like; a Special Garnishing Tool for Cutting Fancy Pieces from Fruits and Vegetables, and a Vegetable Slicing and Shredding Device.
Claims use since Dec. 1, 1931.

Ser. No. 335,437. TRUE BLUE DISTRIBUTORS, Houston, Tex. Filed Feb. 27, 1933.



For Razor Blades.
Claims use since Feb. 15, 1932.

Ser. No. 336,145. RICHARD E. CARR, doing business as Automatic Fire Equipment Company, Council Bluffs, Iowa. Filed Mar. 27, 1933.

DE-PEND-ON

For Portable Hand-Operated and Automatic Chemical Fire Extinguisher.
Claims use since Apr. 1, 1932.

Ser. No. 336,692. SHELL OIL COMPANY, San Francisco, Calif. Filed Apr. 12, 1933.

SHELL

For Automatic Valve Lubricator of the Accessory Type for Internal Combustion Engines.
Claims use since May 9, 1931.

Ser. No. 337,818. YOUNG NOVELTY CO., Boston, Mass. Filed May 13, 1933.



For Safety Razor Blades.
Claims use since Apr. 8, 1933.

Ser. No. 337,996. CONTINENTAL BLADE CORPORATION, Brooklyn, N. Y. Filed May 19, 1933.

Drake

For Razors and Razor Blades.
Claims use since May 13, 1933.

CLASS 24

Laundry Appliances and Machines

Ser. No. 337,815. JUSTIN F. WAIT, New York, N. Y. Filed May 13, 1933.

HYDROZONE

For Laundry Bleaching Systems.
Claims use since July 15, 1927.

CLASS 25

Locks and Safes

Ser. No. 337,615. METALWELD, INC., Philadelphia, Pa. Filed May 8, 1933.

SECUROSAFE

Without waiving its common law rights thereto, the applicant disclaims the words "Secur" and "Safe" apart from the trade-mark as shown.
For Safes.
Claims use since Apr. 22, 1933.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 333,558. MARINE OPTICAL MANUFACTURING COMPANY, Boston, Mass. Filed Dec. 31, 1932.

SUN-SAFE

No registration rights are claimed for the words "Sun-Safe" apart from the mark shown in the drawing.
For Eyeglasses, Goggles, and Spectacles.
Claims use since Dec. 22, 1932.

Ser. No. 337,894. THE L. S. STARRETT COMPANY, Athol, Mass. Filed May 16, 1933.

PIONEER

For Measuring Tools and Devices—Namely, Combination Squares.
Claims use since Apr. 26, 1933.

Ser. No. 337,898. TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed May 16, 1933.

INSTANTA

For Thermometers.
Claims use since Mar. 27, 1933.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 327,446. THE SOUTHWESTERN BROOM MFG. CO., Evansville, Ind. Filed May 3, 1933.

SANI-LITE

No claim is made to the exclusive use of the word "Lite" apart from the mark as shown, without, however, waiving applicant's common-law right to the use of this word to form the complete mark.
For Brooms.
Claims use since Dec. 13, 1932.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 335,089. HEINR. GERSTMANN, doing business as Firma Adolph Hamann, Dresden, Germany. Filed Feb. 18, 1933. Under 10-year proviso.

Dresden

For Porcelain-Ware—Namely, Table Sets, Dishes, Plates, Bowls, Jars, Jugs, Pans, Pots, Tiles, Umbrella Stands, and Vases.
Claims use since Jan. 15, 1883.

CLASS 32

Furniture and Upholstery

Ser. No. 323,098. SUPERIOR FELT & BEDDING CO., Chicago, Ill. Filed Jan. 16, 1932.



For Mattresses.
Claims use since Jan. 10, 1930.

CLASS 33

Glassware

Ser. No. 338,457. KIMBLE GLASS COMPANY, Vineland, N. J. Filed June 2, 1933.

TUBAR

For Glass Tubes or Rods.
Claims use since May 13, 1933.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 323,153. WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y. Filed Jan. 18, 1932.

SANCTOLITE

For Altar and Church Lamps.
Claims use since April, 1928.

Ser. No. 332,328. BADENHAUSEN CORPORATION, Cornwells Heights, Pa. Filed Nov. 21, 1932.



The words "Continuous Unrestricted Circulation" are disclaimed apart from the mark shown on the drawing.
For Steam Generators.
Claims use since May 9, 1927.

Ser. No. 332,360. WILLIAMS RADIATOR CO., Los Angeles, Calif. Filed Nov. 21, 1932.



For Gas Heaters.
Claims use since July 27, 1932.

CLASS 35

Belting, Hose, Machinery Packing, and Non-Metallic Tires

Ser. No. 332,613. RALPH H. CHURCHILL, doing business as Producers, Ltd., Chicago, Ill. Filed Nov. 30, 1932.

PRōL

For Portable Tire Repair Kits and Supplies Therefor.
Claims use since June, 1931.

Ser. No. 333,893. RICH. KLINGER AKTIENGESELLSCHAFT, Gumpoldskirchen, Austria. Filed Jan. 13, 1933.

Klingerit 1000

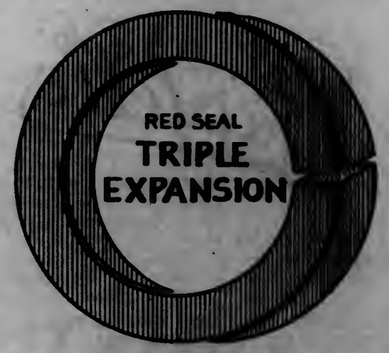
For High Pressure Packings in Plates, Rings and Form Pieces, Consisting of Asbestos, Ligaments, or Metal or Compounds of These Three Materials, for Sealing of Steam, Liquid, and Gases.
Claims use since Nov. 21, 1932.

Ser. No. 334,710. JENKINS BROS., New York, N. Y. Filed Feb. 7, 1933.



Trade-mark consists of a diamond formed in the body of the ring and of a contrasting color with that of the body of the ring.
For Jar Rings.
Claims use since Jan. 13, 1931.

Ser. No. 336,578. PITTSBURGH PERMATITE PACKING COMPANY, Pittsburgh, Pa. Filed Apr. 8, 1933.



The drawing is lined for red. No claim is made for the words "Triple Expansion" nor to the representation of the goods apart from the mark shown.
For Treated Cotton Packing.
Claims use since Sept. 15, 1932.

Ser. No. 337,294. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Apr. 29, 1933.

Supertwist

For Hose Composed Principally or Wholly of Rubber.
Claims use since Mar. 21, 1933.

CLASS 36

Musical Instruments and Supplies

Ser. No. 337,797. NATIONAL MUSICAL STRING CO., New Brunswick, N. J. Filed May 13, 1933.



For Strings for Fretted Stringed Musical Instruments and Strings for Violins and Similar Musical Instruments.
Claims use since May 1, 1933.

CLASS 37

Paper and Stationery

Ser. No. 337,278. NORTHERN PAPER MILLS, Green Bay, Wis. Filed Apr. 24, 1933.

Flufftex

For Toilet Paper.
Claims use since Mar. 7, 1933.

Ser. No. 337,510. THE FIRST NATIONAL BANK OF CHICAGO, Chicago, Ill. Filed May 5, 1933.

MONEYGRAM

For Printed Forms for Use in Transmitting Money in Interstate and Foreign Commerce.
Claims use since Apr. 14, 1933.

Ser. No. 337,875. THE CRYSTAL TISSUE COMPANY, Middletown, Ohio. Filed May 15, 1933.

CRYSTALITE

For Light Weight Waxed and Tissue Papers.
Claims use since Mar. 10, 1933.

Ser. No. 337,961. MANUFACTURERS SUPPLY COMPANY, Cleveland, Ohio. Filed May 18, 1933.

MANSCO

For Paper—Namely, Wrapping Paper and Water Proof Wrapping Paper.
Claims use since Jan. 1, 1928.

CLASS 38

Prints and Publications

Ser. No. 337,857. REVIEW OF REVIEWS CORPORATION, New York, N. Y. Filed May 1, 1933.

REVIEW OF REVIEWS AND WORLD'S WORK

For Monthly Magazine.
Claims use since Aug. 26, 1932.

Ser. No. 338,084. HARRY FRANKEL, doing business as Singin' Sam, Richmond, Ind. Filed May 22, 1933.

Singin' Sam

For Musical Compositions and Music Books Published in a Series.
Claims use since Apr. 1, 1929.

Ser. No. 338,382. U. S. INDUSTRIAL CHEMICAL CO. INCORPORATED, Baltimore, Md., and New York, N. Y. Filed May 31, 1933.

SOLVENT NEWS

For Periodical Publication.
Claims use since June, 1932.

Ser. No. 338,387. MELVIN RYDER, Washington, D. C. Filed May 31, 1933.



For Weekly Newspaper.
Claims use since May 20, 1933.

Ser. No. 338,388. MELVIN RYDER, Washington, D. C. Filed May 31, 1933.

Happy Days

For Weekly Newspaper.
Claims use since May 20, 1933.

CLASS 39

Clothing

Ser. No. 331,515. REGAL SHOE COMPANY, Whitman, Mass. Filed Oct. 24, 1932.

REGAL

For Gloves of Kid or Other Prepared Skins.
Claims use since August, 1932.

Ser. No. 332,112. BERKSHIRE KNITTING MILLS, Wyomissing and Reading, Pa. Filed Nov. 14, 1932.



No claim is made to the words "Berkshire" and "Stockings" or to the particular type of non-run stitch represented in the fanciful design constituting the background of the mark, apart from the mark as shown on the drawing.
For Hosiery.
Claims use since Oct. 10, 1932.

Ser. No. 334,896. BERNARD KEULWICH & CO., New York, N. Y. Filed Feb. 9, 1933.

Brotello

For Hats for the Use of Men and Women.
Claims use since Dec. 10, 1932.

Ser. No. 336,285. P. H. HANES KNITTING COMPANY, Winston-Salem, N. C. Filed Mar. 31, 1933.

Stay-Warm

For Wearing Apparel for Men, Women, and Children—Namely, Union Suits, Undershirts, Drawers, Pull-Over Shirts, Shorts, Sleeping Garments, Sweaters, and Bathing Suits.
Claims use since January, 1932.

Ser. No. 336,400. THE NEATEASE COMPANY, New Bedford, Mass. Filed Apr. 4, 1933.

Neatease

For Women's Underwear.
Claims use since July 5, 1932.

Ser. No. 337,001. FRED W. SMALL, New York, N. Y. Filed Apr. 20, 1933.

"Stay-Seam"

The word "Seam" is disclaimed apart from the mark as shown.
For Silk Undergarments—Namely, Slips, Chemises, Dance Sets, Gowns, Pajamas, Panties, Step-Ins, Bloomers, Which Goods Are for the Use of Women Only.
Claims use since Feb. 1, 1933.

Ser. No. 337,158. THE IRVIN DREW CO., Portsmouth, Ohio. Filed Apr. 25, 1933.

Velva Tred

For Women's Shoes of Leather, Fabric, or the Combination of Leather and Fabric.
Claims use since Jan. 1, 1933.

Ser. No. 337,313. HARRIETTE S. ROSS, New York, N. Y. Filed Apr. 29, 1933.

LaTrique

For Brassières, Corsets, Girdles, Foundation Garments and Underwear for Women and Girls.
Claims use since Feb. 1, 1931.

Ser. No. 337,323. STURM & SCHWENNESEN, INC., New York, N. Y. Filed Apr. 29, 1933.

ROLL-EE
By De Luxe
TRADE MARK
Stretches every direction

Applicant disclaims the right to the exclusive use of the expression "Stretches Every Direction" and the words "Trade-Mark."
For Girdles, Corsets and Elastic Step-In Corsets.
Claims use since Oct. 15, 1932.

Ser. No. 337,475. EDITH LANCES, New York, N. Y. Filed May 4, 1933.

Lances

For Sculptural Brassières.
Claims use since Jan. 1, 1928.

Ser. No. 337,552. BEST & CO., INC., New York, N. Y. Filed May 6, 1933.

matinette

For Women's Wearing Apparel—Namely, Dresses.
Claims use since Apr. 20, 1933.

Ser. No. 337,657. BONA ALLEN, INCORPORATED, Buford, Ga. Filed May 10, 1933.



Registration rights in the words "Health" and "Innersole" are disclaimed apart from the mark shown in the drawing.
For Boots and Shoes Made Wholly or in Part of Leather, Fabric, or Combinations Thereof.
Claims use since Jan. 10, 1929.

Ser. No. 337,687. H. D. BOB COMPANY, INC., New York, N. Y. Filed May 11, 1933.

Widelong

For Men's and Boys' Dress, Negligee, and Work Shirts; Blouses, Pajamas, Underwear, and Overjackets or Windbreakers Made of Cotton, Linen, Flannel, Wool, Silk, and Other Textiles.
Claims use since Apr. 27, 1933.

Ser. No. 337,844. THE ENTROTH SHOE COMPANY, Dayton, Ohio. Filed May 15, 1933.

Dorothy May

For Leather, Silk, and Fabric Shoes and for Combinations of Leather, Silk, and Fabric Shoes.
Claims use since Jan. 1, 1928.

Ser. No. 337,881. INTERNATIONAL SHOE CO., St. Louis, Mo. Filed May 16, 1933.



For Boots and Shoes of Leather, Fabric, and/or Combinations Thereof.
Claims use since May 5, 1933.

Ser. No. 337,882. INTERNATIONAL SHOE CO., St. Louis, Mo. Filed May 16, 1933.

TREAD-CONTROL

For Boots and Shoes of Leather, Fabric, and/or Combinations Thereof.
Claims use since May 5, 1933.

Ser. No. 337,896. STETSON GLOVE COMPANY, St. Louis, Mo. Filed May 16, 1933.

Miraklekid

The word "Kid" is disclaimed apart from the mark as shown.
For Men's, Women's, and Children's Leather Gloves.
Claims use since May 1, 1933.

Ser. No. 337,907. THE B. V. D. COMPANY, INC., Baltimore, Md. Filed May 17, 1933.



FEATHER PONGEE

No claim is made to the right to the exclusive use of the word "Pongee" apart from the mark shown.
For Union Suits, Athletic Shorts, and Pajamas.
Claims use since Feb. 3, 1933, on union suits; since Nov. 28, 1932, on athletic shorts; and since Nov. 2, 1932, on pajamas.

Ser. No. 337,927. OGDEN-UTAH KNITTING COMPANY, Ogden, Utah. Filed May 17, 1933.

Sunjamas

For Pajamas for Women, Misses, and Children.
Claims use since Apr. 4, 1933.

Ser. No. 338,307. JOHN BLOOD & CO., INCORPORATED, Philadelphia, Pa. Filed May 29, 1933.

Snag-Saver

For Hosiery.
Claims use since May 22, 1933.

Ser. No. 338,341. N. SNELLENBURG & CO., Philadelphia, Pa. Filed May 29, 1933.

Croftmoor

For Women's and Misses' Coats, Skirts, Waists, and Dresses.
Claims use since May 1, 1933.

Ser. No. 338,419. MILWAUKEE KNITTING MILLS, INC., Milwaukee, Wis. Filed June 1, 1933.



The lining on the drawing represents the color red. The mark consists of a substantially triangular section at the point of the toe of the stocking colored in any shade of red. The stocking shown in the drawing forms no part of the applicant's trade-mark.
For Hosiery.
Claims use since Jan. 25, 1929.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 332,476. RAE C. KAPLAN, New York, N. Y. Filed Nov. 25, 1932.

Marcelone

For Fabric Cap with Braid Apertures in the Nature of a Hair Waving Device.
Claims use since June 28, 1932.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 337,363. STANDARD SHOE LACE COMPANY, Milwaukee, Wis. Filed May 1, 1933.

STANDARD

No claim is made for the word "Standard" apart from the mark as shown.
For Shoe Laces.
Claims use since Mar. 15, 1933.

Ser. No. 337,846. THE GLEMBY COMPANY, INC., New York, N. Y. Filed May 15, 1933.

BARB-O-CRAFT

For Hard Rubber Combs.
Claims use since Dec. 10, 1932.

Ser. No. 337,848. THE GLEMBY COMPANY, INC., New York, N. Y. Filed May 15, 1933.

ZENITH

For Hard Rubber Combs.
Claims use since Aug. 30, 1932.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 312,071. S. STEIN & CO., New York, N. Y. Filed Mar. 12, 1931.

HERCULES TWIST

Without waiving any common law rights and for purposes of this registration only applicant hereby disclaims the exclusive right to the use of the word "Twist," except as the same is used in connection with the other features of the mark shown on the drawing.
For Woolen Goods in the Piece and in Cut Lengths.
Claims use since Jan. 19, 1931.

Ser. No. 336,237. SWISS SILK BOLTING CLOTH MFG. CO. LTD., Thal, Switzerland. Filed Mar. 30, 1933.



No claim is made to the wording except the name "R. Hohl & Co." apart from the trade-mark as shown in the drawing.
For Silk Bolting Cloth.
Claims use since Mar. 25, 1881.

Ser. No. 337,511. FULD & HEIMENDINGER, New York, N. Y. Filed May 5, 1933.

CHARMANTE VEILS

No claim is made to the word "Veils" apart from the mark shown on the drawing.
For Veils and Hair Nets.
Claims use since January, 1932.

Ser. No. 337,568. LANGDON TEXTILE CO., INC., New York, N. Y. Filed May 6, 1933.

PRINTCRAFT

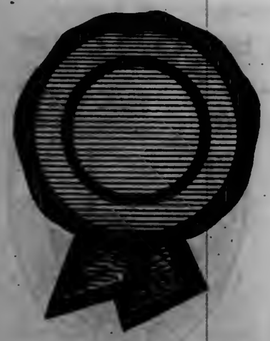
For Cotton Fabrics in the Piece.
Claims use since Feb. 10, 1933.

Ser. No. 337,878. CLARENCE S. BROWN & COMPANY, INC., New York, N. Y. Filed May 16, 1933.

PIMANETTE

The drawing is lined to represent the color black, the lettering and edging having the color of silver.
For Cotton Fabrics in the Piece.
Claims use since Sept. 10, 1932.

Ser. No. 337,919. GRABHORN BROS. INC., New York, N. Y. Filed May 17, 1933.



The lines appearing on the drawing indicate shading only.
For Handkerchiefs.
Claims use since Apr. 3, 1931.

Ser. No. 338,274. JOSEPH BANCROFT & SONS CO., Wilmington, Del. Filed May 27, 1933.

"BANCO-SUPER-SHRUNK"

No claim is made to the word "Shrunk" apart from the mark shown on the drawing.
For Cotton Piece Goods.
Claims use since May 15, 1933.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 322,950. GEORGE KAY, doing business as The Vita-Dyne Permanent Wave Supply Company, Chicago, Ill. Filed Jan. 12, 1932.

VITA DYNE

For Permanent Waving Pads Used in the Process of Permanently Waving Hair.
Claims use since Oct. 15, 1931.

Ser. No. 336,288. JOHNSON & JOHNSON, New Brunswick, N. J. Filed Mar. 31, 1933.

SURGINE

For Prepared Bandaging Material for Use in Making Sanitary Napkins, Pads, and Surgical Dressings.
Claims use since Mar. 17, 1933.

Ser. No. 337,523. HYGIENE PRODUCTS CORPORATION, Union City, N. J. Filed May 5, 1933.



The mark consists of the representation of a blue cross within a circle.
For Corn, Bunion, and Callous Plasters.
Claims use since June 18, 1932.

Ser. No. 337,575. RITTER DENTAL MANUFACTURING COMPANY, INC., Rochester, N. Y. Filed May 6, 1933.

DUALITE

For Dental and Surgical Operating Lights.
Claims use since Jan. 31, 1933.

Ser. No. 337,682. J. SCHAEFFER, INC., New York, N. Y. Filed May 10, 1933.

PERWASOLU

For Pads for Use in the Permanent Waving of Hair.
Claims use since Feb. 20, 1933.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 316,770. B. B. DORF & CO., INC., New York, N. Y. Filed July 9, 1931.



The signature appearing on the drawing is in the handwriting of J. Cederlunds. No claim is made to the representation of a label per se nor to the exclusive use of a label colored black, nor to the words "Trade Mark", "Daiquiri", "Ronn", "Stockholm", or "Sweden" apart from the rest of the mark as shown in the drawing.
For Non-Alcoholic Maltless Syrup for Making Soft Drinks.
Claims use since September, 1929.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 308,427. CENTRAL CALIFORNIA PRODUCERS, Oakland, Calif. Filed Nov. 29, 1930.

Vitamin-Kist

No claim is made to the exclusive use of the word "Vitamin".
For Fresh Citrus Fruits, and Vegetables.
Claims use since Nov. 5, 1930.

Ser. No. 316,558. F. N. GIAVI, INC., New York, N. Y. Filed July 2, 1931.

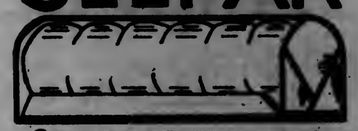


LEONARDO

The portrait and the name "Leonardo Da Vinci" appearing as part of the mark are those of a deceased celebrity by that name.
For Olive Oil, Canned Fish, Canned Vegetables, and Candies.
Claims use since first part of 1929.

Ser. No. 327,065. NEWARK PARAFFINE & PARCHMENT PAPER CO., Newark, N. J. Filed May 13, 1932.

SEEPAK



SEALED AT THE BASE
TO KEEP CONTENTS IN PLACE

No claim is made to the representation of the goods and container or any of the words except "Seepak" apart from the mark shown in the drawing.
For Baked Goods—Namely, Bread, Pastry, Crullers, Rolls, Cookies, Cake, and Potato Chips; Dried, Candied, and Buttered Popcorn; Dried and Canned Prunes and Raisins.
Claims use since Feb. 18, 1932.

Ser. No. 327,171. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed May 16, 1932.

FANCY HOTEL

Applicant makes no claim in the present application to the word "Fancy" apart from the trade mark as shown.
For Coffee.
Claims use since Apr. 2, 1926.

Ser. No. 327,303. FERDINAND BOISVERT, Springfield, Mass. Filed May 21, 1932.

Mulso

For Food Flavoring Extracts.
Claims use since Jan. 4, 1932.

Ser. No. 328,030. MIDDLESEX WHOLESALE GROCERY CO., New Brunswick, N. J. Filed June 16, 1932.



MOTHER'S FAVORITE

The picture of a woman forming part of the mark is fanciful.
For Malt Syrup.
Claims use since December, 1931.

Ser. No. 329,481. FRANK G. SHATTUCK CO., New York, N. Y. Filed Aug. 11, 1932.

SHADOW LAYER CAKE

The words "Layer Cake" are hereby disclaimed as used separate and apart from the mark as shown.
For Bakery Product Commonly Referred to as Layer Cake.
Claims use since Sept. 8, 1931.

Ser. No. 332,018. ADAMS COUNTY FRUIT PACKING & DISTRIBUTING COMPANY, INC., Biglerville, Pa. Filed Nov. 10, 1932.

MIX ICK

For Fresh and Dried Peaches and Apples.
Claims use since Sept. 8, 1931.

Ser. No. 334,901. ASPARAGUS PLANTATIONS, INC., West Palm Beach, Fla. Filed Feb. 13, 1933.

BEACH CLUB

For Fresh Asparagus.
Claims use since Nov. 15, 1932.

Ser. No. 335,581. WALTER F. GORAL, Fort Wayne, Ind. Filed Mar. 10, 1933.



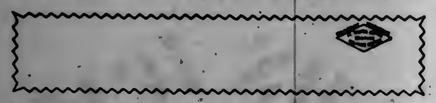
The expression "5¢" and the representation of the goods is disclaimed apart from the other features of the mark shown in the drawing.
For Ice Cream.
Claims use since Dec. 1, 1932.

Ser. No. 335,806. CENTURY FOODS, INC., Chicago, Ill. Filed Mar. 18, 1933.



For Mayonnaise, Salad Dressings, and Mustards.
Claims use since Jan. 7, 1933.

Ser. No. 335,971. RONZONI MACARONI CO., INC., Long Island City, N. Y. Filed Mar. 22, 1933.



No claim is made to the expression "It Tastes Better Because It's Made Better" except as shown in association with the name "Ronzoni" and the design shown on the drawing, although applicant waives no common law rights to the same.
For Alimentary Paste Products.
Claims use since Apr. 29, 1932.

Ser. No. 336,494. CAPITAL FLOUR MILLS, INCORPORATED, Minneapolis, Minn. Filed Apr. 6, 1933.

GOOD BREAD



Applicant disclaims the words "Good Bread". The drawing is lined for shading only.
For Wheat Flour.
Claims use since Oct. 4, 1932.

Ser. No. 337,214. EAGLE NUT PRODUCTS, INC., Brooklyn, N. Y. Filed Apr. 27, 1933.

CHOCOLAT MORSELETTE

The word "Chocolat" is disclaimed apart from the mark shown.
For Candies and Chocolates.
Claims use since February, 1931.

Ser. No. 337,358. ROMANOFF CAVIAR COMPANY, doing business as Hansen Packing Co., New York, N. Y. Filed May 1, 1933.

ROMANOFF

DELICA-TOAST

Exclusive use of the descriptive word "Toast" is disclaimed apart from the mark shown.
For Toast.
Claims use since Apr. 1, 1933.

Ser. No. 337,898. THE RUBEL BAKING COMPANY, Cincinnati, Ohio. Filed May 2, 1933.

RUBEL'S Deutscher

No claim is made to the word "Deutscher" apart from the mark shown in the drawing. In making this disclaimer applicant does not relinquish any of its common-law rights.
For Bread.
Claims use since Dec. 15, 1932.

Ser. No. 337,632. EMERY FOOD COMPANY, Chicago, Ill. Filed May 9, 1933.

SYLLO

For Vegetable Drink or Dessert Preparation.
Claims use since Apr. 19, 1933.

Ser. No. 337,773. BLUE VALLEY CREAMERY COMPANY, Chicago, Ill. Filed May 13, 1933.

BLUE VALLEY

For French, Mayonnaise, Salad and Thousand Island Dressings, and Sandwich Spread.
Claims use since July 1, 1931.

Ser. No. 337,974. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed May 18, 1933. Under section 5b of the act of 1905 as amended in 1920.

FLEISCHMANN'S

For Mixture of Egg Material and Other Substances Suitable for Use as an Ingredient in Making Cakes and Other Food Products.
Claims use since Apr. 20, 1932.

Ser. No. 338,030. THE BROOKLYN WHOLESALE GROCERY CO., Brooklyn, N. Y. Filed May 20, 1933.

BUY-SOME

For Canned Fruits, Canned Fish, Canned Vegetables.
Claims use since Feb. 15, 1933.

Ser. No. 338,056. CARL G. MULLER, doing business as Muller Bros., Oakland, Calif. Filed May 20, 1933.

MB

For Canned Sauerkraut, Tomato Paste, Tomato Juice, Tomato Puree, Tomato Hot Sauce, Oyster Cocktail Sauce, Prepared Horseradish, Distilled Vinegar, Pure Apple Cider Vinegar, Mixed Sweet Pickles, Plain Sweet Pickles, Plain Sour Pickles, Mixed Sour Pickles, Whole Dill Pickles, Sweet Pickle Sandwich Chips, Prepared Mustard, Manzanilla Olives, Pearl Onions, Sweet Chow Chow, Plain Chow Chow, Chili Sauce, Tomato Catsup, Sweet Pickle Relish and Mexican Hot Relish.
Claims use since Dec. 17, 1908.

Ser. No. 338,058. A. SCHILLING & COMPANY, San Francisco, Calif. Filed May 20, 1933.

Mr. and Mrs.

For Canned Coffee.
Claims use since Mar. 14, 1933.

Ser. No. 338,081. DICKINSON & CO., Chicago and Eureka, Ill. Filed May 22, 1933.

OLIO

For Canned Vegetables.
Claims use since 1906.

Ser. No. 338,082. DICKINSON & CO., Chicago and Eureka, Ill. Filed May 22, 1933.

SILVER MINE

For Canned Vegetables.
Claims use since 1908.

Ser. No. 338,093. LIBBY, MCNEILL & LIBBY, Chicago, Ill. Filed May 22, 1933.

Pike Lake

For Canned Vegetables.
Claims use since 1907.

Ser. No. 338,116. SOCIEDAD ANONIMA MACKINNON & COELHO LIMITADA, COMPANIA YERBATERA, Buenos Aires, Argentina. Filed May 22, 1933.

VITAMATE

For Paraguayan Tea (Yerba Mate).
Claims use since Feb. 27, 1926.

Ser. No. 338,144. THE GOUDEY GUM COMPANY, Boston, Mass. Filed May 23, 1933.

BIG LEAGUE

For Chewing Gum.
Claims use since Apr. 12, 1933.

Ser. No. 338,196. KRAFT-PHENIX CHEESE CORPORATION, Chicago, Ill. Filed May 24, 1933.

KRABYN

For Vegetable Extract Used as a Stabilizer for Food Products—e. g., Cheese and Ice Cream.
Claims use since Aug. 15, 1929.

Ser. No. 338,239. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed May 26, 1933.

LITE-VELVA

For Wheat Flour.
Claims use since Apr. 18, 1933.

Ser. No. 338,240. W. J. JENNISON COMPANY, Minneapolis, Minn. Filed May 26, 1933.

V & V

For Wheat Flour.
Claims use since Apr. 4, 1933.

CLASS 47

Wines

Ser. No. 336,927. CROFT & CO. LIMITED, London, England. Filed Apr. 19, 1933.

Cft

For Port Wine.
Claims use since Mar. 15, 1866.

Ser. No. 337,748. LOUIS GUERRIERI, doing business as California Mission Vintage Co., Los Angeles, Calif. Filed May 12, 1933.

OLD MISSION
BRAND
SINCE 1881

The word "Brand" appearing on the drawing is disclaimed apart from the mark as shown.
For Wines.
Claims use since Apr. 7, 1933.

Ser. No. 337,920. JOHN HARVEY & SONS LIMITED, Bristol, England. Filed May 17, 1933.

J H & S
BRISTOL



SHIPPED BY
JOHN HARVEY & SONS, LTD., BRISTOL, ENG.
PRODUCE OF SPAIN.

No claim is made to the words "Bristol", "Sherry", "Bristol, Eng.", "Shipped By" and "Produce of Spain".
For Sherry Wine.
Claims use since Oct. 28, 1918.

Ser. No. 338,269. WILLIAMS & HUMBERT, London, England. Filed May 26, 1933.

MOLINO

For Sherry Wines.
Claims use since Oct. 9, 1911.

Ser. No. 338,330. MONOPOLE VINEYARDS CORPORATION, Rheims and New York, N. Y. Filed May 29, 1933.

JERMAINIA WINE CELLARS

Applicant disclaims the exclusive right to the use of the words "Wine Cellars" except as the same are used in connection with the other features of the mark shown on the drawing.
For Wines.
Claims use since May 18, 1933.

Ser. No. 338,331. MONOPOLE VINEYARDS CORPORATION, Rheims and New York, N. Y. Filed May 29, 1933.

CALINY DRY

Applicant disclaims the exclusive right to the use of the word "Dry" except as the same is used in connection with the other features of the mark shown on the drawing.
For Wines.
Claims use since May 18, 1933.

Ser. No. 338,447. BISCHOLIA BROS., San Jose, Calif. Filed June 2, 1933.

GRAYSTONE

For Sweet Wines, Including Port, Sherry, Muscatel, Angelica, and Tokay.
Claims use since May 1, 1933.

Ser. No. 338,448. BISCHOLIA BROS., San Jose, Calif. Filed June 2, 1933.

PARADISE

For Still Wines, Sparkling Wines, Fermented Wines, Fortified Wines, Champagnes, and Imported and Domestic Wines.
Claims use since May 1, 1933.

Ser. No. 338,449. BISCHOLIA BROS., San Jose, Calif. Filed June 2, 1933.



For Wines.
Claims use since May, 1924.

CLASS 48

Malt Beverages and Liquors

Ser. No. 335,406. JOS. WAGNER BIERBRAUEREI ZUM AUGUSTINER, Munich, Germany. Filed Mar. 1, 1933.

AUGUSTINER

For Malt Beverage with Not More Than the Legal Alcoholic Content and Wort.
Claims use since 1880.

Ser. No. 335,407. JOS. WAGNER BIERBRAUEREI ZUM AUGUSTINER, Munich, Germany. Filed Mar. 1, 1933.



No claim is made to the name "München".
For Malt Beverages with Not More Than the Legal Alcoholic Content and Wort.
Claims use since 1880.

Ser. No. 336,435. GRAND RAPIDS BREWING COMPANY, Grand Rapids, Mich. Filed Apr. 5, 1933. Under 10-year proviso.

The Grand Rapids

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since 1894.

Ser. No. 337,295. PETER HAND COMPANY, doing business as Peter Hand Brewery Co., Chicago, Ill. Filed Apr. 29, 1933.

Meister Bräu

No claim is made to the word "Bräu" for registration purposes apart from the mark shown in the drawing.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Dec. 29, 1903.

Ser. No. 337,354. PILSNER PRODUCTS CO., INC., New York, N. Y., assignor to Pilsner Importing Co., New York, N. Y., a Firm composed of Abraham Poust and Jack Poust. Filed May 1, 1933.



The drawing is lined for red, blue, gold and black. Applicant disclaims the words "Brand" and "Pilsner" apart from the mark shown on the drawing.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Oct. 1, 1928.

Ser. No. 337,729. THE BUCKEYE BREWING COMPANY, Toledo, Ohio. Filed May 12, 1933.

BUCKEYE

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since 1885.

Ser. No. 337,914. HENRY A. CONWAY, doing business as Conway Brewing Co., Troy, N. Y. Filed May 17, 1933.

UNCLE SAM



For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since May 1, 1905.

Ser. No. 338,145. T. B. HALL & CO., LIMITED, Liverpool, England. Filed May 23, 1933.



For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since July 23, 1874.

Ser. No. 338,156. MACHEN & CO., LIMITED, Liverpool, England. Filed May 23, 1933.

PELICAN BRAND.

No claim is made to the exclusive use of the word "Brand" apart from the mark shown in the drawing.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Feb. 7, 1875.

Ser. No. 338,197. LARGAY BREWING CO. INCORPORATED, Waterbury, Conn. Filed May 24, 1933.



No claim is made to any of the notations appearing on the drawing with the exception of the word "Largay's" and the name of applicant.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since May 19, 1933.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 332,957. JOHN E. MCPHERSON & SONS, Newcastle-on-Tyne, England. Filed Dec. 10, 1932. Under 10-year proviso.

MACPHERSONS
CLUNY SCOTCH WHISKY

For Whisky.
Claims use since Apr. 8, 1886.

Ser. No. 337,499. MATTHEW WILLIAM GLOAG, doing business as Matthew Gloag & Son, Perth, Scotland. Filed May 2, 1933.

THE FAMOUS GROUSE BRAND



OLD HIGHLAND WHISKY
Matthew Gloag,
Perth.

No claim is made to any of the words appearing on the drawing with the exception of the word "Grouse."
For Whisky.
Claims use since 1896.

Ser. No. 338,159. D. & G. MCLAREN, Leith, Scotland. Filed May 23, 1933.

Claverhouse

For Whisky.
Claims use since April, 1910.

Ser. No. 338,203. THE SHERWOOD DISTILLING AND DISTRIBUTING COMPANY, Baltimore, Md. Filed May 24, 1933.

HUNTER



For Whiskey.
Claims use since Jan. 3, 1927.

Ser. No. 338,352. BAIRD-TAYLOR, LIMITED, Glasgow, Scotland. Filed May 31, 1933.

RED TAPE

For Whisky.
Claims use since 1903.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 337,397. LESLIE V. ROBINSON, New York, N. Y. Filed May 2, 1933.

ROJO

For Radio Program Racks.
Claims use since Apr. 14, 1933.

Ser. No. 338,040. J. W. GEIGER, INC., New York, N. Y. Filed May 20, 1933.

Silkofhane

For Fabrics Made of Oiled Silk, and Goods Made of the Said Material to Act as Water Proof Protection—Namely, Sheets and Mattress Covers.
Claims use since September, 1932.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 11, 1933

304,440. LEATHER SHOES. HARRY SIR & SON, INC., New York, N. Y.
Filed March 4, 1932. Serial No. 324,804. PUBLISHED APRIL 25, 1933. Class 39.

304,441. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed February 13, 1933. Serial No. 334,907. PUBLISHED APRIL 25, 1933. Class 42.

304,442. COSMETICS, MANICURE PREPARATIONS, ETC. ARTHUR A. DORT, Brooklyn, N. Y.
Filed February 12, 1932. Serial No. 324,092. PUBLISHED APRIL 25, 1933. Class 6.

304,443. BRUSHES AND MATERIALS FOR CLEANING, POLISHING, AND COLORING LEATHER GOODS. WHITTEMORE BROS. CORP., Cambridge, Mass.
Filed February 27, 1932. Serial No. 324,577. PUBLISHED APRIL 25, 1933. Class 4.

304,444. FOX FEED. JOHNSON'S FUR & SALES CO., Chippewa Falls, Wis.
Filed February 13, 1933. Serial No. 334,919. PUBLISHED APRIL 25, 1933. Class 46.

304,445. UNDERWEAR AND FOUNDATION GARMENTS FOR WOMEN. LUXITE SILK PRODUCTS CO., Milwaukee, Wis.
Filed February 13, 1933. Serial No. 334,924. PUBLISHED APRIL 25, 1933. Class 39.

304,446. LUBRICATING OIL FOR THE INTESTINAL TRACT, HAIR TONIC AND SCALP TREATING PREPARATION, FACIAL CLEANSING CREAMS, COLD CREAMS, MENTHOL CAMPHOR CREAMS; LINIMENT FOR EXTERNAL USE RECOMMENDED FOR TREATMENT OF SPRAINS, BRUISES, AND RHEUMATISM; FACE AND HAND LOTION, SHAMPOO PREPARATION FOR TREATMENT OF THE SCALP, PERFUMERY, ALMOND SKIN AND COMPLEXION CREAM AND PERFUMED STARCH FOR USE IN WASHING AND IRONING WEARING APPAREL. MARK J. SULLIVAN, doing business as Tyoga Products Company, Wellsboro, Pa.
Filed February 13, 1933. Serial No. 334,939. PUBLISHED APRIL 25, 1933. Class 6.

304,447. BRUSH CLEANER. THE CLEVELAND CLEANER AND PASTE CO., Cleveland, Ohio.
Filed February 15, 1933. Serial No. 334,985. PUBLISHED APRIL 25, 1933. Class 16.

304,448. SALVE FOR EXTERNAL USE FOR THE TREATMENT OF ALL EXTERNAL SORES, SUCH AS CANCER, BOILS, BURNS, EXZEMA, CUTS, RAW AND INFECTED SORES OF LONG STANDING. ANDREW D. GREEN, Evansville, Ind.
Filed February 15, 1933. Serial No. 334,995. PUBLISHED APRIL 25, 1933. Class 6.

304,449. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed February 13, 1933. Serial No. 334,908. PUBLISHED APRIL 25, 1933. Class 42.

304,450. COMPOUND FOR CLEANING WALL PAPER, FRESCOS, CALCIMINE, ETC. THE CLEVELAND CLEANER AND PASTE CO., Cleveland, Ohio.
Filed February 15, 1933. Serial No. 334,983. PUBLISHED APRIL 25, 1933. Class 4.

304,451. PAINT CLEANING COMPOUND. THE CLEVELAND CLEANER AND PASTE CO., Cleveland, Ohio.
Filed February 15, 1933. Serial No. 334,984. PUBLISHED APRIL 25, 1933. Class 4.

304,452. CITRUS FRUITS. LAKE WALES CITRUS GROWERS ASSOCIATION, Lake Wales, Fla.
Filed February 14, 1933. Serial No. 334,965. PUBLISHED APRIL 25, 1933. Class 46.

304,453. PAINTERS WALL SIZE. THE CLEVELAND CLEANER AND PASTE CO., Cleveland, Ohio.
Filed February 15, 1933. Serial No. 334,982. PUBLISHED APRIL 25, 1933. Class 16.

304,454. IRONING TABLES. NATIONAL WASHBOARD COMPANY, Chicago, Ill.
Filed February 24, 1933. Serial No. 335,468. PUBLISHED APRIL 25, 1933. Class 24.

304,455. CANNED PINEAPPLE JUICE. HAWAIIAN PINEAPPLE COMPANY, LTD., Honolulu, Hawaii, and San Francisco, Calif.
Filed February 14, 1933. Serial No. 334,964. PUBLISHED APRIL 25, 1933. Class 46.

304,456. IRONING TABLES. NATIONAL WASHBOARD COMPANY, Chicago, Ill.
Filed February 24, 1933. Serial No. 335,475. PUBLISHED APRIL 25, 1933. Class 24.

304,457. IRONING TABLES. NATIONAL WASHBOARD COMPANY, Chicago, Ill.
Filed February 24, 1933. Serial No. 335,469. PUBLISHED APRIL 25, 1933. Class 24.

304,458. IRONING TABLES. NATIONAL WASHBOARD COMPANY, Chicago, Ill.
Filed February 24, 1933. Serial No. 335,470. PUBLISHED APRIL 25, 1933. Class 24.

304,459. TOY DRAWING BOOKS. ESTHER LA ROSE HARRIS, Atlanta, Ga.
Filed March 7, 1933. Serial No. 335,465. PUBLISHED APRIL 25, 1933. Class 22.

304,460. IRONING TABLES. NATIONAL WASHBOARD COMPANY, Chicago, Ill.
Filed February 24, 1933. Serial No. 335,478. PUBLISHED APRIL 25, 1933. Class 24.

304,461. IRONING TABLES. NATIONAL WASHBOARD COMPANY, Chicago, Ill.
Filed February 24, 1933. Serial No. 335,474. PUBLISHED APRIL 25, 1933. Class 24.

304,462. IRONING TABLES. NATIONAL WASHBOARD COMPANY, Chicago, Ill.
Filed February 24, 1933. Serial No. 335,471. PUBLISHED APRIL 25, 1933. Class 24.

304,463. IRONING TABLES. NATIONAL WASHBOARD COMPANY, Chicago, Ill.
Filed February 24, 1933. Serial No. 335,472. PUBLISHED APRIL 25, 1933. Class 24.

304,464. NON-ALCOHOLIC, MALTLESS BEVERAGES, AND SYRUP USED IN MAKING THE SAME. RICHARDSON CORPORATION, Rochester, N. Y.
Filed March 7, 1933. Serial No. 335,542. PUBLISHED APRIL 25, 1933. Class 45.

304,465. COD LIVER OIL AND COD LIVER OIL COMPOUND IN TABLET FORM. MCCOY'S LABORATORIES, INC., New York, N. Y.
Filed March 6, 1933. Serial No. 335,512. PUBLISHED APRIL 25, 1933. Class 6.

304,466. FERTILIZER. CAPITOL RENDERING WORKS, INC., Denver, Colo.
Filed March 6, 1933. Serial No. 335,497. PUBLISHED APRIL 25, 1933. Class 10.

304,467. PICTURE PUZZLES. HAMBLET STUDIOS, INC., Akron, Ohio.
Filed March 6, 1933. Serial No. 335,505. PUBLISHED APRIL 25, 1933. Class 22.

304,468. OIL BURNERS. SHERWOOD BROS., INC., Baltimore, Md.
Filed March 1, 1933. Serial No. 335,481. PUBLISHED APRIL 25, 1933. Class 34.

304,469. CANNED SHRIMP. DORGAN-MCPHILLIPS PACKING CORPORATION, Mobile, Ala.
Filed March 2, 1933. Serial No. 335,484. PUBLISHED APRIL 25, 1933. Class 46.

304,470. SCOTCH WHISKY. ROWETT, LEGGE & CO. LIMITED, London, England.
Filed March 8, 1933. Serial No. 335,552. PUBLISHED APRIL 25, 1933. Class 49.

304,471. ELECTRICAL REFRIGERATORS FOR THE PRESERVATION OF FOODSTUFFS. THE CROSLEY RADIO CORPORATION, Cincinnati, Ohio.
Filed February 27, 1933. Serial No. 335,478. PUBLISHED APRIL 25, 1933. Class 31.

304,472. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. BERGHOFF BREWING CORPORATION, Fort Wayne, Ind.
Filed March 8, 1933. Serial No. 335,546. PUBLISHED APRIL 25, 1933. Class 48.

304,473. WHISKEY. CHARLES MARCHANT, Glasgow, Scotland.
Filed March 8, 1933. Serial No. 335,551. PUBLISHED APRIL 25, 1933. Class 49.

304,474. WHEAT FLOUR. VICTOR FLOUR MILLS, INC., Pittsford, N. Y.
Filed March 6, 1933. Serial No. 335,529. PUBLISHED APRIL 25, 1933. Class 46.

304,475. INSECTICIDES. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed March 6, 1933. Serial No. 335,524. PUBLISHED APRIL 25, 1933. Class 6.

304,476. QUILTING FRAMES OR HOOPS. THE STEARNS & FOSTER CO., Cincinnati, Ohio.
Filed March 6, 1933. Serial No. 335,526. PUBLISHED APRIL 25, 1933. Class 50.

304,477. NONALCOHOLIC, NONCEREAL, AND MALTLESS BEVERAGES AND SYRUPS, COMPOUNDS, AND CONCENTRATES FOR MAKING THE SAME. ORANGE-CRUSH COMPANY, Chicago, Ill.
Filed March 6, 1933. Serial No. 335,519. PUBLISHED APRIL 25, 1933. Class 45.

304,478. MAGAZINE PUBLISHED FROM TIME TO TIME. PETROLAGAR LABORATORIES, INC., Chicago, Ill.
Filed March 6, 1933. Serial No. 335,521. PUBLISHED APRIL 25, 1933. Class 38.

304,479. PLANT FERTILIZER. COMMERCIAL LABORATORIES, INC., Newark, N. Y.
Filed March 15, 1933. Serial No. 335,665. PUBLISHED APRIL 25, 1933. Class 10.

304,480. CARPET PADS AND CARPET LINING. CHICAGO CURLED HAIR COMPANY, Chicago, Ill.
Filed March 16, 1933. Serial No. 335,717. PUBLISHED APRIL 25, 1933. Class 50.

304,481. SHAVING CREAM. RICHARD HUDNUT, New York, N. Y., assignor to Chevron, Ltd., New York, N. Y., a Corporation of New York.
Filed March 11, 1933. Serial No. 335,595. PUBLISHED APRIL 25, 1933. Class 4.

304,482. FACE POWDER. HOUBIGANT, INC., New York, N. Y.
Filed March 14, 1933. Serial No. 335,640. PUBLISHED APRIL 25, 1933. Class 6.

304,483. CHEWING GUM. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y.
Filed March 9, 1933. Serial No. 335,560. PUBLISHED APRIL 25, 1933. Class 46.

304,484. BOND PAPER. ROCKWELL-BARNES COMPANY, Chicago, Ill.
Filed March 9, 1933. Serial No. 335,567. PUBLISHED APRIL 25, 1933. Class 37.

304,485. PUZZLES. THE HOLABIRD COMPANY, Bryan, Ohio.
Filed March 16, 1933. Serial No. 335,722. PUBLISHED APRIL 25, 1933. Class 22.

304,486. CIGARS. BAYUK CIGARS INCORPORATED, Philadelphia, Pa.
Filed March 17, 1933. Serial No. 335,762. PUBLISHED APRIL 25, 1933. Class 17.

304,487. SOAP. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed March 17, 1933. Serial No. 335,768. PUBLISHED APRIL 25, 1933. Class 4.

304,488. DOLLS. BERTHA BEHRMAN, doing business as ALEXANDER DOLL CO., New York, N. Y.
Filed March 17, 1933. Serial No. 335,763. PUBLISHED APRIL 25, 1933. Class 22.

304,489. GLOVES AND/OR MITTENS MADE FROM LEATHER, IMITATION LEATHER, FABRIC, OR OTHER TEXTILE MATERIALS OR A COMBINATION THEREOF. WENDELL P. MURRAY, Gloversville, N. Y.
Filed April 1, 1933. Serial No. 336,880. PUBLISHED MAY 9, 1933. Class 39.

304,490. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. GLOBE BREWING CO., INC., Utica, N. Y.
Filed March 20, 1933. Serial No. 335,864. PUBLISHED APRIL 25, 1933. Class 48.

304,491. ASTRINGENTS. ASTRINGENT CERATES, BLEACH AND BEAUTY CREAMS, ETC. COMFORT MANUFACTURING COMPANY, Chicago, Ill.
Filed February 16, 1933. Serial No. 335,018. PUBLISHED APRIL 25, 1933. Class 6.

304,492. SHOE CLEANSER AND SHOE POLISHES. SHU-MILK PRODUCTS CORPORATION, Orange, N. J.
Filed February 15, 1933. Serial No. 335,006. PUBLISHED APRIL 25, 1933. Class 4.

304,493. KNITTED RAYON AND SILK GOODS IN THE PIECE. PROGRESSIVE KNITTED RAYON FABRIC MILLS, INC., Brooklyn, N. Y.
Filed February 16, 1933. Serial No. 335,034. PUBLISHED APRIL 18, 1933. Class 42.

304,494. PERFUMES. ROBERT ENTERPRISES, INC., New York, N. Y.
Filed February 16, 1933. Serial No. 335,022. PUBLISHED APRIL 25, 1933. Class 6.

304,495. WRAPPERS, BAGS, AND CARTONS PRODUCED WHOLLY OR IN PART FROM PAPER OR CELLULOSE SHEETING. SHELLMAR PRODUCTS COMPANY, Chicago, Ill.
Filed February 17, 1933. Serial No. 335,074. PUBLISHED APRIL 25, 1933. Class 2.

304,496. PREPARATIONS FOR TREATMENT OF THE HAIR AND BEARD, TOILET POWDERS, PREPARATIONS FOR CLEANING THE TEETH, AND AFTER-SHAVING PREPARATIONS. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn.
Filed February 16, 1933. Under Section 5b of the Act of 1905, as amended in 1920. Serial No. 335,045. PUBLISHED APRIL 25, 1933. Class 6.

304,497. WOOLEN PIECE GOODS. FORSTMANN WOOLEN CO., Passaic, N. J.
Filed February 18, 1933. Serial No. 335,087. PUBLISHED APRIL 18, 1933. Class 42.

304,498. PREPARATION FOR THE TREATMENT OF INDIGESTION. HERMAN BARST, doing business as Selzit Products Co., New York, N. Y.
Filed February 18, 1933. Serial No. 335,082. PUBLISHED APRIL 25, 1933. Class 6.

304,499. BATHING SUITS AND SUSPENDERS. SINCLAIR KNITTING MILLS INC., New York, N. Y.
Filed February 18, 1933. Serial No. 335,097. PUBLISHED APRIL 18, 1933. Class 39.

304,500. CUTTING HEAD FOR DRILL STEELS. INGERSOLL-RAND COMPANY, New York. N. Y.
Filed February 18, 1933. Serial No. 335,093. PUBLISHED APRIL 25, 1933. Class 23.

304,501. CANDY. THE VONEIFF-DRAYER CO., Baltimore, Md.
Filed February 18, 1933. Serial No. 335,101. PUBLISHED APRIL 25, 1933. Class 46.

304,502. PERIODICAL. STREET & SMITH PUBLICATIONS, INC., New York, N. Y.
Filed February 18, 1933. Serial No. 335,099. PUBLISHED APRIL 25, 1933. Class 38.

304,503. FRESH TOMATOES AND CANNED TOMATOES. PALM BEACH LOXAHATCHEE COMPANY, West Palm Beach, Fla.
Filed February 20, 1933. Serial No. 335,129. PUBLISHED APRIL 25, 1933. Class 46.

304,504. CANDY. THE VONEIFF-DRAYER CO., Baltimore, Md.
Filed February 18, 1933. Serial No. 335,102. PUBLISHED APRIL 25, 1933. Class 46.

304,505. WHEAT FLOUR. WILKINS-ROGERS MILLING CO., INC., Washington, D. C.
Filed February 20, 1933. Serial No. 335,147. PUBLISHED APRIL 18, 1933. Class 46.

304,506. HANDKERCHIEFS. THE ROCHESTER CO. INC., Enid, Okla.
Filed February 20, 1933. Serial No. 335,132. PUBLISHED APRIL 18, 1933. Class 42.

304,507. MAYONNAISE. PURE FOOD DISTRIBUTORS, INC., Hillside, N. J.
Filed February 21, 1933. Serial No. 335,171. PUBLISHED APRIL 18, 1933. Class 46.

304,508. CERTAIN NAMED WEARING APPAREL. BEST & CO., INC., New York, N. Y.
Filed February 21, 1933. Serial No. 335,158. PUBLISHED APRIL 18, 1933. Class 39.

304,509. LUBRICATING OILS AND GREASES, GASOLINE, ETC. JUSTIN F. WAIT, New York, N. Y.
Filed February 21, 1933. Serial No. 335,176. PUBLISHED APRIL 18, 1933. Class 15.

304,510. FILLING MATERIAL FOR TEETH (SILICATE CEMENT). RESEARCH PRODUCTS CORPORATION, New York, N. Y.
Filed February 21, 1933. Serial No. 335,173. PUBLISHED APRIL 25, 1933. Class 44.

304,511. GELATINE DESSERT. ARCADIA FOOD CO., New York, N. Y.
Filed July 1, 1932. Serial No. 328,472. PUBLISHED AUGUST 30, 1932. Class 46.

304,512. FRESH GRAPES. JOSEPH J. ETTOR, Modesto, Calif.
Filed October 21, 1932. Serial No. 331,427. PUBLISHED NOVEMBER 29, 1932. Class 46.

304,513. SUSPENDERS, INCLUDING SHIRT HOLD-DOWN ATTACHMENTS. HICKOK MANUFACTURING COMPANY, INC., Rochester, N. Y.
Filed August 4, 1932. Serial No. 329,334. PUBLISHED APRIL 11, 1933. Class 39.

304,514. INSECTICIDE AND DISINFECTANT. J. WARREN BULLEN, doing business as The Bullen Chemical Company, Folcroft, Pa.
Filed August 3, 1932. Serial No. 329,300. PUBLISHED SEPTEMBER 20, 1932. Class 6.

304,515. CANDY. SCHWARTZ MERCHANDISE CORPORATION, New York, N. Y.
Filed August 27, 1932. Serial No. 329,915. PUBLISHED APRIL 18, 1933. Class 46.

304,516. SUSPENDERS, INCLUDING SHIRT HOLD DOWN ATTACHMENTS. HICKOK MANUFACTURING COMPANY, INC., Rochester, N. Y.
Filed August 5, 1932. Serial No. 329,349. PUBLISHED APRIL 11, 1933. Class 39.

304,517. UPPER GAUGING ATTACHMENTS FOR MAKING SHOE LASTS. BRAUER BROS. INC., St. Louis, Mo.
Filed August 31, 1932. Serial No. 330,028. PUBLISHED APRIL 25, 1933. Class 26.

304,518. WHEAT FLOUR. OTTO EDGEBERG, doing business as Northwestern Brokerage Co., Eau Claire, Wis.
Filed August 29, 1932. Serial No. 329,966. PUBLISHED APRIL 25, 1933. Class 46.

304,519. PASTE PAINTS. NATIONAL CHEMICAL & MANUFACTURING COMPANY, Chicago, Ill.
Filed May 19, 1932. Serial No. 327,255. PUBLISHED NOVEMBER 22, 1932. Class 16.

304,520. CERTAIN NAMED WEARING APPAREL. VANITY FAIR SILK MILLS, Reading, Pa.
Filed May 17, 1932. Serial No. 327,205. PUBLISHED DECEMBER 27, 1932. Class 39.

304,521. CHEMICAL PULP, SULPHITE AND SULPHATE PULP, AND MECHANICAL PULP. ZELLSTOFFFABRIK WALDHOF, Mannheim-Waldhof, Germany.
Filed June 21, 1932. Serial No. 328,199. PUBLISHED APRIL 25, 1933. Class 1.

304,522. INSECTICIDE. ORLANDO KEITH OWEN, doing business as Dao Corporation, Terre Haute, Ind.
Filed May 31, 1932. Serial No. 327,600. PUBLISHED APRIL 25, 1933. Class 6.

304,523. SHOES MADE OF LEATHER, CLOTH, CANVAS, OR COMBINATIONS THEREOF. BROWN SHOE COMPANY, INC., St. Louis, Mo.
Filed March 26, 1932. Serial No. 325,512. PUBLISHED JULY 5, 1932. Class 39.

304,524. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed March 24, 1932. Serial No. 325,420. PUBLISHED MAY 10, 1932. Class 42.

304,525. BED BLANKETS OF TEXTILE FABRIC. F. C. HUYCK & SONS, Rensselaer and Albany, N. Y.
Filed April 25, 1932. Serial No. 326,511. PUBLISHED JUNE 7, 1932. Class 42.

304,526. POPCORN CONFECTIONS. CLARENCE E. WILLIAMS, Chicago, Ill.
Filed April 8, 1932. Serial No. 325,928. PUBLISHED APRIL 25, 1933. Class 46.

304,527. VEHICLE RADIATOR AND GASOLINE FILLER CAPS. STANT MANUFACTURING COMPANY, Connersville, Ind.
Filed May 7, 1932. Serial No. 326,965. PUBLISHED APRIL 25, 1933. Class 19.

304,528. VEHICLE RADIATOR AND GASOLINE FILLER CAPS. STANT MANUFACTURING COMPANY, Connersville, Ind.
Filed May 7, 1932. Serial No. 326,960. PUBLISHED APRIL 25, 1933. Class 19.

304,529. ELECTRIC FANS. KNAPP-MONARCH COMPANY, Belleville, Ill.
Filed March 21, 1932. Serial No. 325,331. PUBLISHED JUNE 7, 1932. Class 21.

304,530. FRESH VEGETABLES. J. L. DEBENEDETTI, San Francisco, Calif.
Filed May 16, 1932. Serial No. 327,134. PUBLISHED AUGUST 16, 1932. Class 46.

304,531. CANDY. STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa.
Filed February 28, 1933. Serial No. 335,377. PUBLISHED APRIL 25, 1933. Class 46.

304,532. COFFEE AND TEA. AARON WEISER, doing business as Aaron Coffee Company, Philadelphia, Pa.
Filed February 28, 1933. Serial No. 335,376. PUBLISHED APRIL 25, 1933. Class 46.

304,533. SURGEON'S RUBBER GLOVES. AMERICAN ANODE INC., Akron, Ohio.
Filed March 1, 1933. Serial No. 335,383. PUBLISHED APRIL 25, 1933. Class 44.

304,534. SURGEON'S RUBBER GLOVES. AMERICAN ANODE INC., Akron, Ohio.
Filed March 1, 1933. Serial No. 335 382. PUBLISHED APRIL 25, 1933. Class 44.

304,535. CHAIRS. WHEDON, INC., Buffalo, N. Y.
Filed December 14, 1932. Serial No. 333,092. PUBLISHED APRIL 25, 1933. Class 32.

304,536. SURGEON'S RUBBER GLOVES. AMERICAN ANODE INC., Akron, Ohio.
Filed March 1, 1933. Serial No. 335,384. PUBLISHED APRIL 25, 1933. Class 44.

304,537. CARBON BLACK FOR USE IN THE MANUFACTURE OF RUBBER. GODFREY L. CABOT, INC., Boston, Mass.
Filed December 20, 1932. Serial No. 333,219. PUBLISHED APRIL 25, 1933. Class 6.

304,538. SHEET-METAL AND WIRE. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn.
Filed December 17, 1932. Serial No. 333,146. PUBLISHED APRIL 25, 1933. Class 14.

304,539. PHOTOGRAPHIC DEVELOPING SOLUTIONS AND FOR OTHER CHEMICAL BATHS USED IN PHOTOGRAPHY. GENERAL ELECTRIC X-RAY CORPORATION, Chicago, Ill.
Filed December 22, 1932. Serial No. 333,287. PUBLISHED APRIL 25, 1933. Class 26.

304,540. SHOES MADE PRINCIPALLY OF LEATHER. MARION SHOE COMPANY, Marion, Ind.
Filed December 21, 1932. Serial No. 333,263. PUBLISHED APRIL 25, 1933. Class 39.

304,541. COPPER AND COPPER ALLOYS. COPPER & BRASS RESEARCH ASSOCIATION, New York, N. Y.
Filed December 30, 1932. Serial No. 333,506. PUBLISHED APRIL 25, 1933. Class 14.

304,542. COSMETICS, DENTIFRICES, FOOT SALVE, ETC. PARFUMERIE ST. DENIS, New York, N. Y.
Filed December 29, 1932. Serial No. 333,468. PUBLISHED APRIL 25, 1933. Class 6.

304,543. HOUSEHOLD RUBBER GLOVES. UNITED DRUG COMPANY, Boston, Mass.
Filed January 4, 1933. Serial No. 333,641. PUBLISHED APRIL 11, 1933. Class 39.

304,544. SOY BEAN SAUCE AND FRIED NOODLES. FURUYA & COMPANY, Seattle, Wash.
Filed January 3, 1933. Serial No. 333,584. PUBLISHED APRIL 18, 1933. Class 46.

304,545. MACHINERY FOR MANUFACTURING BOOTS, SHOES, AND PARTS THEREOF, COMPRISING ELECTRICALLY DRIVEN CONVEYORS AND GRAVITY CONVEYORS, TUNNEL TYPE DRIERS, AND BOX TYPE DRIERS. BRADSPEED CORPORATION, St. Louis, Mo.
Filed January 7, 1933. Serial No. 333,726. PUBLISHED APRIL 25, 1933. Class 28.

304,546. PERMANENT-WAVE HAIR PADS FOR HAIR-WAVING APPARATUS. WEAVER JACKSON COMPANY, Los Angeles, Calif.
Filed January 4, 1933. Serial No. 333,645. PUBLISHED APRIL 25, 1933. Class 44.

304,547. OINTMENT AND TOILET CREAM. ADA FLINT SMITH, doing business as Assa Manufacturing Co., Albany, N. Y.
Filed January 5, 1933. Serial No. 333,783. PUBLISHED APRIL 25, 1933. Class 6.

304,548. BREAD, CAKES, AND PIES. DUGAN BROTHERS OF NEW JERSEY, INC., Newark, N. J.
Filed January 7, 1933. Serial No. 333,729. PUBLISHED APRIL 25, 1933. Class 46.

304,549. SHOES MADE OF LEATHER, FABRIC, OR RUBBER, OR COMBINATIONS THEREOF. E. P. REED & COMPANY, Rochester, N. Y.
Filed January 13, 1933. Serial No. 333,894. PUBLISHED APRIL 11, 1933. Class 39.

304,550. HAND LOTIONS, FACE LOTIONS, AND SKIN LOTIONS. JOSEPH S. HOULE, Manchester, N. H.
Filed January 11, 1933. Serial No. 333,831. PUBLISHED APRIL 11, 1933. Class 6.

304,551. PERFUMES, TOILET WATERS, ROUGES, ETC. LES LABORATOIRES DAUSSE, SOCIETE ANONYME, Paris, France.
Filed January 26, 1933. Serial No. 334,365. PUBLISHED APRIL 25, 1933. Class 6.

304,552. BUTTONS NOT MADE OF PRECIOUS METAL. THE SIEMON COMPANY, Bridgeport, Conn.
Filed January 26, 1933. Serial No. 334,372. PUBLISHED APRIL 18, 1933. Class 40.

304,553. PREPARATION FOR THE RELIEF OF SINUS INFECTIONS, CATARRH, HAY FEVER, COLDS, AND ALL NASAL INFECTIONS. ROBERT S. BENNETT, doing business as Antro Chemical Company, Cleveland, Ohio.
Filed January 26, 1933. Serial No. 334,344. PUBLISHED APRIL 25, 1933. Class 6.

304,554. JOIST STEEL, CHANNEL STEEL, ANGLE STEEL, T STEEL, AND STEEL IN FLATS AND PLATES, ALL FOR USE IN BRIDGE BUILDING AND STRUCTURAL ENGINEERING. DORMAN LONG & CO., LIMITED, Middlesbrough, England.
Filed January 26, 1933. Serial No. 334,350. PUBLISHED APRIL 25, 1933. Class 14.

304,555. BOOTS AND SHOES OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF. INTERNATIONAL SHOE CO., St. Louis, Mo.
Filed January 24, 1933. Serial No. 334,284. PUBLISHED APRIL 11, 1933. Class 39.

304,556. COLD CREAM, WRINKLE REMOVER, DEODORANTS, ETC. THE PERFUMER AND COSMETIC GUILD CORPORATION, West Haven, Conn.
Filed January 24, 1933. Serial No. 334,289. PUBLISHED APRIL 11, 1933. Class 6.

304,557. BAKERY PRODUCTS—NAMELY, BISCUIT. NATIONAL BISCUIT COMPANY, New York, N. Y.
Filed January 20, 1933. Serial No. 334,154. PUBLISHED APRIL 25, 1933. Class 46.

304,558. MEN'S AND BOYS' HATS AND CAPS. BEE HAT & CAP CO., St. Louis, Mo.
Filed January 23, 1933. Serial No. 334,243. PUBLISHED APRIL 18, 1933. Class 39.

304,559. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. C. AND J. MICHEL BREWING COMPANY, La Crosse, Wis.
Filed January 19, 1933. Serial No. 334,110. PUBLISHED APRIL 25, 1933. Class 48.

304,560. NARROW BRASSIÈRES. CHAS. R. DE BEVOISE CO., Newark, N. J.
Filed January 20, 1933. Serial No. 334,143. PUBLISHED APRIL 11, 1933. Class 39.

304,561. FLOOR COVERINGS AND MATS MADE OF A COMBINATION OF RUBBER AND TEXTILE MATERIAL. THE BUXBAUM COMPANY, Akron, Ohio.
Filed January 19, 1933. Serial No. 334,084. PUBLISHED APRIL 25, 1933. Class 50.

304,562. CORSET GIRDLES. KOPS BROTHERS, INC., New York, N. Y.
Filed January 19, 1933. Serial No. 334,107. PUBLISHED APRIL 18, 1933. Class 39.

304,563. MILK MAGNESIA. GUY W. ALBERTY, doing business as Alberty Drug Co., Batavia, N. Y.
Filed January 18, 1933. Serial No. 334,038. PUBLISHED APRIL 11, 1933. Class 6.

304,564. PERFUMES, TOILET WATERS, FACE POWDERS, TALCUM POWDERS, ROUGE, LIP STICKS, SKIN CREAMS, HAIR LOTIONS, HAIR TONICS, HAIR FIXATIVES, HAIR STRAIGHTENING PREPARATIONS. SOCIETE A RESPONSABILITE LIMITEE: LE BAKERFIX, Nanterre, France.
Filed January 18, 1933. Serial No. 334,076. PUBLISHED APRIL 25, 1933. Class 6.

304,565. PERFUMES, TOILET WATERS, FACE CREAMS, BATH SALTS, BATH POWDER, FACE POWDER, TALCUM POWDER, SACHET, ROUGE, LIP STICKS, LOTION FOR THE SKIN AND HAIR, BRILLIANTINE. PARFUMERIE RIGAUD, INC., New York, N. Y.
Filed January 17, 1933. Serial No. 334,023. PUBLISHED APRIL 25, 1933. Class 6.

304,566. HOUSEHOLD AUTOMATIC PUMPS FOR OIL BURNERS. C & H SALES CORPORATION, Boston, Mass.
Filed January 17, 1933. Serial No. 334,035. PUBLISHED APRIL 25, 1933. Class 23.

304,567. LINIMENT FOR THE TREATMENT OF EXTERNAL IRRITATIONS, MUSCULAR SORENESS, BRUISES, SPRAINS, INSECT BITES, RHEUMATIC PAINS, NEURALGIC PAINS, CHAPPED HANDS, AND RUB FOR ATHLETES. NOX-KWIK COMPANY, Baltimore, Md.
Filed January 31, 1933. Serial No. 334,510. PUBLISHED APRIL 25, 1933. Class 6.

304,568. FABRICS IN THE PIECE OF WOOL, COTTON, SILK, RAYON, AND/OR COMBINATIONS THEREOF. FRED BUTTERFIELD & CO., INC., New York, N. Y.
Filed February 1, 1933. Serial No. 334,519. PUBLISHED APRIL 11, 1933. Class 42.

304,569. BOOTS AND SHOES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed January 27, 1933. Serial No. 334,410. PUBLISHED APRIL 18, 1933. Class 39.

304,570. FACIAL CREAM. THE PEPSODENT CO., Chicago, Ill.
Filed January 30, 1933. Serial No. 334,468. PUBLISHED APRIL 11, 1933. Class 6.

304,571. KITCHEN GRATERS. ACE PRODUCTS COMPANY, INC., New York, N. Y.
Filed January 26, 1933. Serial No. 334,377. PUBLISHED APRIL 25, 1933. Class 23.

304,572. MALT SYRUP AND MACARONI. JOSEPH ANTOGNOLI & CO., Chicago, Ill., assignor to Joseph Antognoli & Co. Chicago, Ill., a Corporation of Illinois.
Filed January 27, 1933. Serial No. 334,380. PUBLISHED MARCH 14, 1933. Class 46.

304,573. MEDICINAL OIL FOR THE TREATMENT OF CUTS, BRUISES, BURNS, SPRAINS, AND AS A RUB DOWN AFTER EXERCISE. JOHN J. NORTON, doing business as First Aid Medicine Co. Inc., Laurel, Md.
Filed February 7, 1933. Serial No. 334,716. PUBLISHED APRIL 11, 1933. Class 6.

304,574. LINIMENT USED IN THE TREATMENT OF ACHES, SPRAINS, BRUISES, RHEUMATISM, AND NEURALGIA. FRANK J. WELICKA, doing business as Welco Laboratories, Jamaica, N. Y.
Filed February 7, 1933. Serial No. 334,723. PUBLISHED APRIL 11, 1933. Class 6.

304,575. MIDDLE SOLES FOR SHOES. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y.
Filed February 6, 1933. Serial No. 334,674. PUBLISHED APRIL 11, 1933. Class 39.

304,576. INSECTICIDES. JOHN LUCROY & SON, Camden, N. J.
Filed February 6, 1933. Serial No. 334,683. PUBLISHED APRIL 11, 1933. Class 6.

304,577. CERTAIN NAMED WEARING APPAREL. VOGUE BRASSIERE MFG. CO., Newark, N. J.
Filed February 2, 1933. Serial No. 334,585. PUBLISHED APRIL 11, 1933. Class 39.

304,578. ROTARY GRAIN SEPARATORS. KALKER TRIEURFABRIK UND FABRIK GELOCHTER BLECHE MAYER & CIE., AKTIENGESELLSCHAFT, Cologne, Germany.
Filed February 3, 1933. Serial No. 334,608. PUBLISHED APRIL 25, 1933. Class 23.

304,579. CHEESE. LAKESHIRE CHEESE COMPANY, Plymouth, Wis.
Filed February 28, 1933. Serial No. 335,360. PUBLISHED APRIL 25, 1933. Class 46.

304,580. CEREAL EGG, AND MILK FREE DIET FOR ALLERGIC CHILDREN. MEAD JOHNSON & COMPANY, Evansville, Ind.
Filed February 27, 1933. Serial No. 335,328. PUBLISHED APRIL 25, 1933. Class 46.

304,581. STABILIZED DRY WHEY SKIMMED MILK PRODUCT FOR INTERNAL HUMAN USE. THE CALWHEY CO., San Francisco Calif.
Filed February 28, 1933. Serial No. 335,346. PUBLISHED APRIL 25, 1933. Class 46.

304,582. CLEANING BRUSHES, HAIR BRUSHES, NAIL BRUSHES, SHOE BRUSHES, CLOTHES BRUSHES, TOOTH BRUSHES, SCRUBBING BRUSHES, AND FLOOR BRUSHES. G. BUNAU VARILLA, Boulogne sur Seine, France.
Filed February 25, 1933. Serial No. 335,305. PUBLISHED APRIL 25, 1933. Class 29.

304,583. PORCH SHADES AND WINDOW SHADES. INTERNATIONAL DISTRIBUTING CO., Janesville, Wis.
Filed February 27, 1933. Serial No. 335,320. PUBLISHED APRIL 25, 1933. Class 32.

304,584. KITCHEN CHAIRS AND OTTOMANS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed February 25, 1933. Serial No. 335,301. PUBLISHED APRIL 25, 1933. Class 32.

304,585. RADIO AND TELEVISION TUBES. TRIAD MANUFACTURING CO., INC., doing business as Meltron Tube Co., Pawtucket, R. I.
Filed February 25, 1933. Serial No. 335,303. PUBLISHED APRIL 18, 1933. Class 21.

304,586. APPARATUS FOR DETERMINING SUGAR IN URINE. SCHWEIZ. SERUM- & IMPFINSTITUT BERN, Bern, Switzerland.
Filed February 25, 1933. Serial No. 335,299. PUBLISHED APRIL 25, 1933. Class 44.

304,587. GUN AND REVOLVER CARTRIDGES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed February 25, 1933. Serial No. 335,300. PUBLISHED APRIL 25, 1933. Class 9.

304,588. LADIES' UNDERGARMENTS—I. E., BRASSIÈRES WITH AND WITHOUT DRESS SHIELDS. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed February 25, 1933. Serial No. 335,277. PUBLISHED APRIL 25, 1933. Class 39.

304,589. STERILIZING, CLEANSING POWDER FOR ARTIFICIAL TEETH. LEE W. LOCKWOOD, doing business as La Dento Laboratories, Minneapolis, Minn.
Filed February 25, 1933. Serial No. 335,280. PUBLISHED APRIL 25, 1933. Class 4.

304,590. SILK FABRICS IN THE PIECE. ONONDAGA SILK COMPANY, INC., Syracuse and New York, N. Y.
Filed February 23, 1933. Serial No. 335,209. PUBLISHED APRIL 25, 1933. Class 42.

304,591. TREATED TARNISH PROOF, NAPPED, AND PILE FABRICS FOR USE IN PACKING SILVER. CROMPTON COMPANY, West Warwick, R. I.
Filed February 25, 1933. Serial No. 335,273. PUBLISHED APRIL 25, 1933. Class 50.

304,592. PROCESSED NUTS. ROBERT P. MOORMAN, doing business as R. P. Moorman Co., Indianapolis, Ind.
Filed February 23, 1933. Serial No. 335,205. PUBLISHED APRIL 25, 1933. Class 46.

304,593. SILK FABRICS IN THE PIECE. ONONDAGA SILK COMPANY, INC., Syracuse and New York, N. Y.
Filed February 23, 1933. Serial No. 335,208. PUBLISHED APRIL 25, 1933. Class 42.

304,594. SHEETS. NAUMKEAG STEAM COTTON COMPANY, Salem, Mass.
Filed February 28, 1933. Serial No. 335,365. PUBLISHED APRIL 25, 1933. Class 42.

304,595. FABRICS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed February 23, 1933. Serial No. 335,187. PUBLISHED APRIL 25, 1933. Class 42.

304,596. PERIODICALS. L. G. TREADWAY SERVICE CORPORATION, New York, N. Y.
Filed February 28, 1933. Serial No. 335,372. PUBLISHED APRIL 25, 1933. Class 38.

304,597. NEEDLES FOR HAND USE. JOHN THORNTON & COMPANY, New York, N. Y.
Filed November 1, 1932. Serial No. 331,808. PUBLISHED APRIL 18, 1933. Class 40.

304,598. WHEAT FLOUR. THE KANSAS MILLING COMPANY, Wichita, Kans.
Filed September 3, 1932. Serial No. 330,093. PUBLISHED NOVEMBER 1, 1932. Class 46.

304,599. SHEETS. NAUMKEAG STEAM COTTON COMPANY, Salem, Mass.
Filed February 28, 1933. Serial No. 335,366. PUBLISHED APRIL 25, 1933. Class 42.

304,600. THREAD AND YARN OF ARTIFICIAL ORIGIN, KNOWN AS RAYON. AMERICAN GLANZSTOFF CORPORATION, New York, N. Y.
Filed September 9, 1932. Serial No. 330,193. PUBLISHED APRIL 18, 1933. Class 48.

304,601. THREAD AND YARN OF ARTIFICIAL ORIGIN, KNOWN AS RAYON. AMERICAN GLANZSTOFF CORPORATION, New York, N. Y.
Filed September 9, 1932. Serial No. 330,192. PUBLISHED APRIL 18, 1933. Class 48.

304,602. CORSETS AND BRASSIÈRES AND COMBINATIONS COMPRISING GIRDLES AND BRASSIÈRES IN COMBINATION. VOGUE BRASSIERE MFG. CO., Newark, N. J.
Filed September 22, 1932. Serial No. 330,587. PUBLISHED NOVEMBER 29, 1932. Class 39.

304,603. THREAD AND YARN MADE OF COTTON, SILK, RAYON, WOOL, AND COMBINATIONS THEREOF. EMPIRE TWINE & YARN CO., INC., New York, N. Y.
Filed September 14, 1932. Serial No. 330,340. PUBLISHED APRIL 4, 1933. Class 48.

304,604. RUBBER, VEGETABLE AND SYNTHETIC GUMS IN THEIR RAW OR PARTLY PREPARED STATE, AND HOPS. JARUSG BROTHERS, INC., New York, N. Y.
Filed October 1, 1932. Serial No. 330,851. PUBLISHED JANUARY 3, 1933. Class 1.

304,605. CANDIES, ICE CREAM, FRUIT SYRUPS FOR FLAVORING FOODS AND INGREDIENTS OF FOODS, AND FOOD FLAVORING EXTRACTS. FELTON CHEMICAL COMPANY, INC., Brooklyn, N. Y.
Filed September 27, 1932. Serial No. 330,701. PUBLISHED APRIL 25, 1933. Class 46.

304,606. WATCHES, WATCH MOVEMENTS, AND PARTS THEREOF. SOCIÉTÉ ANONYME DE LA FABRIQUE D'HORLOGERIE LE COULTRE & CIE, Le Sentier, Switzerland.
Filed October 6, 1932. Serial No. 331,014. PUBLISHED APRIL 25, 1933. Class 27.

304,607. WATCHES, WATCH MOVEMENTS, AND PARTS THEREOF. SOCIÉTÉ ANONYME DE LA FABRIQUE D'HORLOGERIE LE COULTRE & CIE, Le Sentier, Switzerland.
Filed October 6, 1932. Serial No. 331,013. PUBLISHED APRIL 25, 1933. Class 27.

304,608. TEA. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed February 8, 1933. Serial No. 334,775. PUBLISHED APRIL 25, 1933. Class 46.

304,609. TEA. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed February 8, 1933. Serial No. 334,774. PUBLISHED APRIL 25, 1933. Class 46.

304,610. CONCENTRATED LIQUID MALT SYRUP. THE BACHRACH-FELD COMPANY, INC., doing business as Nuwort Concentrated Malt Co., Cincinnati, Ohio.
Filed February 9, 1933. Serial No. 334,788. PUBLISHED APRIL 25, 1933. Class 46.

304,611. ANTACID SALT FOR THE RELIEF OF STOMACH DISORDERS. WORTHALL, LTD., New York, N. Y.
Filed February 8, 1933. Serial No. 334,783. PUBLISHED APRIL 11, 1933. Class 6.

304,612. TEA. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed Feoruary 9, 1933. Serial No. 334,812. PUBLISHED APRIL 25, 1933. Class 46.

304,613. TEA. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed February 9, 1933. Serial No. 334,811. PUBLISHED APRIL 25, 1933. Class 46.

304,614. COTTON THREAD. STANDARD-COOSA-THATCHER COMPANY, Chattanooga, Tenn.
Filed February 9, 1933. Serial No. 334,814. PUBLISHED APRIL 4, 1933. Class 48.

304,615. COTTON THREAD. STANDARD-COOSA-THATCHER COMPANY, Chattanooga, Tenn.
Filed February 9, 1933. Serial No. 334,813. PUBLISHED APRIL 4, 1933. Class 48.

304,616. COTTON THREAD. STANDARD-COOSA-THATCHER COMPANY, Chattanooga, Tenn.
Filed February 9, 1933. Serial No. 334,816. PUBLISHED APRIL 4, 1933. Class 48.

304,617. COTTON THREAD. STANDARD-COOSA-THATCHER COMPANY, Chattanooga, Tenn.
Filed February 9, 1933. Serial No. 334,815. PUBLISHED APRIL 4, 1933. Class 48.

304,618. LADIES' UNDERGARMENTS — NAMELY SLIPS. GARFINKEL & RITTER, New York, N. Y.
Filed February 10, 1933. Serial No. 334,833. PUBLISHED APRIL 4, 1933. Class 39.

304,619. COTTON THREAD. STANDARD-COOSA-THATCHER COMPANY, Chattanooga, Tenn.
Filed February 9, 1933. Serial No. 334,817. PUBLISHED APRIL 4, 1933. Class 48.

304,620. CHEMICAL DYE AIDS—NAMELY, MOISTENING, PROTECTING, PENETRATING, SMOOTHING, AND TANNING PREPARATIONS FOR THREAD AND FIBRE. H. TH. BÖHME AKTIENGESELLSCHAFT, Chemnitz, Germany.
Filed February 11, 1933. Serial No. 334,861. PUBLISHED APRIL 11, 1933. Class 6.

304,621. HARMONICAS AND VIOLIN STRING ADJUSTERS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed February 10, 1933. Serial No. 334,848. PUBLISHED APRIL 18, 1933. Class 36.

304,622. CHEMICAL DYE AIDS—NAMELY, MOISTENING, PROTECTING, PENETRATING, SMOOTHING, AND TANNING PREPARATIONS FOR THREAD AND FIBRE. H. TH. BÖHME AKTIENGESELLSCHAFT, Chemnitz, Germany.
Filed February 11, 1933. Serial No. 334,863. PUBLISHED APRIL 11, 1933. Class 6.

304,623. CHEMICAL DYE AIDS—NAMELY, MOISTENING, PROTECTING, PENETRATING, SMOOTHING, AND TANNING PREPARATIONS FOR THREAD AND FIBRE. H. TH. BÖHME AKTIENGESELLSCHAFT, Chemnitz, Germany.
Filed February 11, 1933. Serial No. 334,862. PUBLISHED APRIL 11, 1933. Class 6.

304,624. MEDICINAL PREPARATION FOR THE TREATMENT OF HAY FEVER. MANUEL S. LEHRFELD, Philadelphia, Pa.
Filed February 11, 1933. Serial No. 334,879. PUBLISHED APRIL 11, 1933. Class 6.

304,625. CHEMICAL DYE AIDS—NAMELY, MOISTENING, PROTECTING, PENETRATING, SMOOTHING, AND TANNING PREPARATIONS FOR THREAD AND FIBRE. H. TH. BÖHME AKTIENGESELLSCHAFT, Chemnitz, Germany.
Filed February 11, 1933. Serial No. 334,864. PUBLISHED APRIL 11, 1933. Class 6.

304,626. CANNED PEELED TOMATOES. F. VITELLI & FIGLIO, New York, N. Y.
Filed February 11, 1933. Serial No. 334,895. PUBLISHED APRIL 25, 1933. Class 46.

304,627. GIRDLES, BRASSIÈRES, COMBINATION OF GIRDLE AND BRASSIÈRE IN A ONE-PIECE GARMENT, AND STEP-INS. SANDFELDER BROS. CO., Chicago, Ill.
Filed February 11, 1933. Serial No. 334,887. PUBLISHED APRIL 18, 1933. Class 39.

304,628. ANISETTE. HIJOS DE FRANCISCO SERRANO, Oviedo, Spain.
Filed February 2, 1933. Serial No. 334,562. PUBLISHED APRIL 25, 1933. Class 49.

304,629. PREPARATION FOR REMOVING SPOTS AND STAINS. GARFINKEL & RITTER, doing business as Jaunty Silk Company, New York, N. Y.
Filed February 2, 1933. Serial No. 334,558. PUBLISHED APRIL 25, 1933. Class 4.

304,630. ANISED BRANDIES AND LIQUORS. HIJOS DE FRANCISCO SERRANO, Oviedo, Spain.
Filed February 2, 1933. Serial No. 334,561. PUBLISHED APRIL 25, 1933. Class 49.

304,631. WOOLEN PIECE GOODS. FORSTMANN WOOLEN CO., Passaic, N. J.
Filed February 1, 1933. Serial No. 334,529. PUBLISHED APRIL 11, 1933. Class 42.

304,632. BAKERY PRODUCTS—NAMELY, BREAD. HUBER BAKING CO., Wilmington, Del.
Filed February 1, 1933. Serial No. 334,532. PUBLISHED APRIL 18, 1933. Class 46.

304,633. PILE FABRICS. ROSSIE VELVET COMPANY, Mystic, Conn.
Filed February 8, 1933. Serial No. 334,771. PUBLISHED APRIL 11, 1933. Class 42.

304,634. PILE FABRICS. ROSSIE VELVET COMPANY, Mystic, Conn.
Filed February 8, 1933. Serial No. 334,772. PUBLISHED APRIL 11, 1933. Class 42.

304,635. PILE FABRICS. ROSSIE VELVET COMPANY, Mystic, Conn.
Filed February 8, 1933. Serial No. 334,769. PUBLISHED APRIL 11, 1933. Class 42.

304,636. PILE FABRICS. ROSSIE VELVET COMPANY, Mystic, Conn.
Filed February 8, 1933. Serial No. 334,770. PUBLISHED APRIL 11, 1933. Class 42.

304,637. PILE FABRICS. ROSSIE VELVET COMPANY, Mystic, Conn.
Filed February 8, 1933. Serial No. 334,767. PUBLISHED APRIL 11, 1933. Class 42.

304,638. PILE FABRICS. ROSSIE VELVET COMPANY, Mystic, Conn.
Filed February 8, 1933. Serial No. 334,768. PUBLISHED APRIL 11, 1933. Class 42.

304,639. PILE FABRICS. ROSSIE VELVET COMPANY, Mystic, Conn.
Filed February 8, 1933. Serial No. 334,765. PUBLISHED APRIL 11, 1933. Class 42.

304,640. PILE FABRICS. ROSSIE VELVET COMPANY, Mystic, Conn.
Filed February 8, 1933. Serial No. 334,766. PUBLISHED APRIL 11, 1933. Class 42.

304,641. PILE FABRICS. ROSSIE VELVET COMPANY, Mystic, Conn.
Filed February 8, 1933. Serial No. 334,764. PUBLISHED APRIL 11, 1933. Class 42.

304,642. LADIES' SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. LA VALLE, INC., New York, N. Y.
Filed February 8, 1933. Serial No. 334,754. PUBLISHED APRIL 11, 1933. Class 39.

304,643. CARBON DECOMPOSER, ANTI-FREEZE COMPOUNDS, CHEMICALS, AND CHEMICAL PREPARATIONS—NAMELY, INSECTICIDES. THE R. M. HOLLINGSHEAD CO., Camden, N. J.
Filed November 21, 1932. Serial No. 332,390. PUBLISHED APRIL 25, 1933. Class 6.

304,644. CANNED RAW OYSTERS AND CANNED COOKED OYSTERS. WILLAPOINT OYSTERS INCORPORATED, Seattle, Wash.
Filed February 7, 1933. Serial No. 334,725. PUBLISHED APRIL 25, 1933. Class 46.

304,645. SHOE LACES. BENJAMIN GITTLEMAN, doing business as Lincoln Lace & Braid Mfg. Co., Providence, R. I.
Filed December 6, 1932. Serial No. 332,812. PUBLISHED APRIL 18, 1933. Class 40.

304,646. BALLS, BATS, RACKETS, CLUBS, STICKS, BASES, GOALS, GLOVES, MITTS, MASKS, PROTECTORS, RACKET-PRESSES, RACKET-COVERS, NETS AND BAGS USED IN THE GAMES OF BASEBALL, FOOTBALL, BASKETBALL, TENNIS, AND GOLF. THE DRAPER-MAYNARD COMPANY, Plymouth, N. H.
Filed November 29, 1932. Serial No. 332,577. PUBLISHED APRIL 25, 1933. Class 22.

304,647. COSMETIC PREPARATIONS, AND THE LIKE. JOSEPH THIBERT, Denver, Colo.
Filed November 17, 1932. Serial No. 332,240. PUBLISHED APRIL 25, 1933. Class 6.

304,648. ROLLER SKATES AND HANDBALL GLOVES. DAVEGA-CITY RADIO STORES, INC., New York, N. Y.
Filed November 18, 1932. Serial No. 332,252. PUBLISHED FEBRUARY 21, 1933. Class 22.

304,649. SMOKE-CONTAINING CHEWING GUM. BOYLE & BURGER, New York, N. Y.
Filed November 7, 1932. Serial No. 331,947. PUBLISHED APRIL 18, 1933. Class 46.

304,650. PERIODICAL PUBLICATIONS. CONOVER & MAST, New York, N. Y.
Filed November 12, 1932. Serial No. 332,086. PUBLISHED APRIL 25, 1933. Class 38.

304,651. RUBBER TOY BALLOONS. AMERICAN ANODE INC., Akron, Ohio.
Filed March 1, 1933. Serial No. 335,388. PUBLISHED APRIL 25, 1933. Class 22.

304,652. RUBBER TOY BALLOONS. AMERICAN ANODE INC., Akron, Ohio.
Filed March 1, 1933. Serial No. 335,387. PUBLISHED APRIL 25, 1933. Class 22.

304,653. ANTI-FREEZE COMPOUND. TENNESSEE EASTMAN CORPORATION, Kingsport, Tenn.
Filed March 1, 1933. Serial No. 335,405. PUBLISHED APRIL 25, 1933. Class 6.

304,654. RUBBER TOY BALLOONS. AMERICAN ANODE INC., Akron, Ohio.
Filed March 1, 1933. Serial No. 335,389. PUBLISHED APRIL 25, 1933. Class 22.

304,655. DRY INSECTICIDE AND FUNGICIDE COMPOSITION. THE J. W. WOOLFOLK CO., INC., Fort Valley, Ga.
Filed April 20, 1931. Serial No. 313,573. PUBLISHED APRIL 25, 1933. Class 6.

304,656. MALT BEVERAGE CONTAINING NO MORE THAN THE LEGAL AMOUNT OF ALCOHOL. STERLING PRODUCTS COMPANY, Evansville, Ind.
Filed March 3, 1933. Serial No. 335,454. PUBLISHED APRIL 25, 1933. Class 48.

304,657. PERFUMERY. GEORG DRALLE, Hamburg and Altona, Germany.
Filed September 4, 1931. Serial No. 318,897. PUBLISHED APRIL 25, 1933. Class 6.

304,658. BOND PAPER. MILLERS FALLS PAPER COMPANY, Millers Falls, Mass.
Filed August 4, 1931. Serial No. 317,645. PUBLISHED NOVEMBER 8, 1932. Class 37.

304,659. CANNED FRUIT, CANNED VEGETABLES, DRIED FRUIT, JAMS, ETC. CALIFORNIA PACKING CORPORATION, San Francisco, Calif.
Filed October 28, 1930. Serial No. 307,259. PUBLISHED DECEMBER 6, 1932. Class 46.

304,660. ALIMENTARY PASTE, BUTTER, CANDIES, ETC. JABURG BROTHERS, INC., New York, N. Y.
Filed March 28, 1931. Serial No. 312,651. PUBLISHED OCTOBER 25, 1932. Class 46.

304,661. AIR-OPERATED SIGNALLING HORNS. TRICO PRODUCTS CORPORATION, Buffalo, N. Y.
Filed November 28, 1930. Serial No. 308,400. PUBLISHED FEBRUARY 3, 1931. Class 28.

304,662. VANILLA FOOD FLAVORING EXTRACT. JOSEPH BURNETT CO., Boston, Mass.
Filed November 6, 1930. Serial No. 307,579. PUBLISHED APRIL 25, 1933. Class 46.

304,663. CANNED CRAB MEAT. AMTORG TRADING CORPORATION, New York, N. Y.
Filed December 8, 1930. Serial No. 308,716. PUBLISHED APRIL 25, 1933. Class 46.

304,664. AIR-OPERATED SIGNALLING HORNS. TRICO PRODUCTS CORPORATION, Buffalo, N. Y.
Filed November 28, 1930. Serial No. 308,401. PUBLISHED FEBRUARY 3, 1931. Class 28.

304,665. POLISHING WAX FOR COATING AND POLISHING WOOD, METAL, AND OTHER SURFACES. S. C. JOHNSON & SON, Racine, Wis., assignor to S. C. Johnson & Son, Inc., Racine, Wis., a Corporation of Wisconsin.
Filed October 29, 1931. Serial No. 320,592. PUBLISHED APRIL 25, 1933. Class 16.

304,666. SHOES MADE OF LEATHER LINED WITH FABRIC. J. J. GROVER SHOE COMPANY, Stoneham, Mass.
Filed October 19, 1931. Serial No. 320,250. PUBLISHED APRIL 25, 1933. Class 39.

304,667. CERTAIN NAMED WEARING APPAREL. F. L. DUNNE CO., Boston, Mass, and New York, N. Y.
Filed December 10, 1931. Serial No. 321,993. PUBLISHED APRIL 26, 1932. Class 39.

304,668. OIL BURNERS. KAVENY BROTHERS, INC., Montclair, N. J.
Filed November 27, 1931. Serial No. 321,542. PUBLISHED SEPTEMBER 13, 1932. Class 34.

304,669. REAR AND FRONT SIGNAL LIGHTS FOR VEHICLES. JAMES TRESAWNA BURT-GERRANS, Toronto, Ontario, Canada, assignor to Francis Thomas Routery, Kingsway, Ontario, Canada.
Filed February 8, 1932. Serial No. 323,978. PUBLISHED APRIL 18, 1933. Class 21.

304,670. WOMEN'S SHOES MADE IN WHOLE OR IN PART OF LEATHER. THE JULIAN & KOKENGE COMPANY, doing business as The Lape & Adler Company, Columbus and Cincinnati, Ohio.
Filed February 8, 1932. Serial No. 323,946. PUBLISHED APRIL 25, 1933. Class 39.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

304,671. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) EASY TEETHER MEDICINE CO., Westminster, S. C. Filed May 1, 1933. Serial No. 337,382.

DR. H. E. THORNTON'S
EASY-TEETHER

For Preparations for the Prevention and Treatment of Stomach and Bowel Ailments and to Sweeten and Soothe the Stomachs of Children, Particularly Teething Babies.
Claims use since Jan. 7, 1920.

304,672. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) H. PAUL PRIGG, Miami, Fla. Filed May 5, 1933. Serial No. 337,544.

PRIGG

For Motor Boats.
Claims use since Jan. 1, 1927.

304,673. (CLASS 48. MALT BEVERAGES AND LIQUORS.) ACTIENGESELLSCHAFT HACKERBRÄU, Munich, Germany. Filed Apr. 18, 1933. Serial No. 336,896.

Hella

For Malt Beverages with not More Than the Legal Alcoholic Content and Wort.
Claims use since July, 1917.

304,674. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PHARMA-CRAFT CORPORATION, Louisville, Ky. Filed Apr. 26, 1933. Serial No. 337,198.

FRESH

For Skin Salve Preparations and Facial Creams and Antiseptics, Body Deodorants.
Claims use since Oct. 10, 1930.

304,675. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. L. HOPKINS & Co., New York, N. Y. Filed Mar. 13, 1933. Serial No. 335,601.

DEOLEATED

For Almond Meal.
Claims use since Sept. 25, 1928.

304,676. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEATRICE MABIE, INC., St. Louis, Mo. Filed Mar. 13, 1933. Serial No. 335,619.

BEATRICE MABIE

For Deodorants, Depilatories, Powder Bases, Massage Oils, Astringents, Face Lotions, Hand Lotions, Eye Lotions, Pore and Tissue Creams, Cleansing Creams, Rouge.
Claims use since Mar. 11, 1922.

304,677. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DOLLY GRAYSON COMPANY, INC., Birmingham, Ala. Filed Mar. 8, 1933. Serial No. 335,487.

Dolly Grayson

For Hair Tonics, Skin Lotions, Deep Pore Cleanser, Snow White Facial Pack, Tonic Astringent, Cucumber Balm, Face Powder, Skin and Tissue Cream, Lipstick, Eye Shadow, Rouge, Antiseptic Mouth Wash, Bath Salts, Hair Shampoo, Cuticle Remover, and Nail Polish.
Claims use since Jan. 1, 1931.

304,678. (CLASS 37. PAPER AND STATIONERY.) LANE DRUG STORES, INCORPORATED, Atlanta, Ga. Filed Mar. 6, 1933. Serial No. 335,510.

Betty Lane

For Writing and Cleansing Tissue Paper.
Claims use since Mar. 15, 1932.

304,679. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THOMAS W. BAYLEY, doing business as Velvet Mitten Company, Los Angeles, Calif. Filed Feb. 15, 1933. Serial No. 334,977.

Velvet Mitten

For Abrasive Article Used as a Depilatory or Hair Remover.
Claims use since Apr. 29, 1932.

304,680. (CLASS 25. LOCKS AND SAFES.) DUDLEY LOCK CORPORATION, Chicago, Ill. Filed Feb. 20, 1933. Serial No. 335,112.

Dudley

For Locks, Keys and Key Blanks.
Claims use since May 1, 1932.

304,681. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MICHAEL A. MELLENTHIN, doing business as Mellenthin Laboratories, Los Angeles, Calif., assignor to Gurli Mellenthin, Los Angeles, Calif. Filed Oct. 29, 1932. Serial No. 331,691.

Dr.M.A.Mellenthin's
Medical Preparations

For Medical Compounds to be Used for the Treatment of Stomach Ulcers, for the Treatment of the Gall Bladder, for the Treatment of Tonsils and Adenoids, for the Treatment of Rheumatism, for the Treatment of Kidneys, for the Treatment of Asthma, for the Treatment of Piles, a Blood Tonic, a Digestive Elixir, and an Externally Applied Liniment for the Treatment of Muscular Aches and Pains.
Claims use since Mar. 1, 1908.

304,682. (CLASS 39. CLOTHING.) CARSON PIRIE SCOTT AND COMPANY, Chicago, Ill. Filed Dec. 27, 1932. Serial No. 333,378.

Creston

For Ladies' and Misses' Hats.
Claims use since Mar. 22, 1930.

304,683. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUNICAL PACKING COMPANY, San Francisco, Calif. Filed June 20, 1932. Serial No. 328,144.

MODERN PAK

For Canned Fruits.
Claims use since May 17, 1932.

304,684. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD COSMETIC COMPANY, Oakland, Calif. Filed Aug. 28, 1932. Serial No. 329,779.

PEACH BLOSSOM

For Cosmetics—Namely, Beauty Cream, Tissue Cream, and Astringents.
Claims use since Dec. 15, 1930

304,685. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BLACKSTONE, STALLMAN, INC., assignor to Benjamin Stallman, New York, N. Y. Filed May 25, 1932. Serial No. 327,423.

RIBCORD

For Woven Textiles in the Piece of Cotton, Wool and Mixtures Thereof.
Claims use since Feb. 15, 1932.

304,686. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEEMAN BROTHERS, INC., New York, N. Y. Filed June 14, 1932. Serial No. 327,989.

Consomme Madrilene

For Canned Chicken and Tomato Consommé.
Claims use since June 3, 1932.

304,687. (CLASS 37. PAPER AND STATIONERY.) THE ULLMAN MANUFACTURING COMPANY, Brooklyn, N. Y. Filed Apr. 22, 1932. Serial No. 326,403.

WHOPPER CRAYON

For Sets of Toy Crayons.
Claims use since Mar. 21, 1932.

304,688. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DURAND & HUGUENIN A. G., Basel, Switzerland. Filed Apr. 28, 1932. Serial No. 326,580.

DEHAGEN

For Auxiliary Products for Mordanting, Fixing, Dispersing, and Softening Purposes in Dyeing and Printing of Textile Fibres.
Claims use since Nov. 1, 1931.

304,689. (CLASS 39. CLOTHING.) BEN TURCHIN & BRO. INC., New York, N. Y. Filed Mar. 11, 1932. Serial No. 325,050.

French Sof-tee

For Ladies', Women's, Misses', and Children's Hats.
Claims use since Dec. 18, 1931.

304,690. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE J. R. WATKINS COMPANY, Winona, Minn., and Newark, N. J. Filed Apr. 1, 1932. Serial No. 325,734.

JEAN WADE

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream and Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations Suitable for the Darkening of Eyebrows and Eyelashes, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Shampoo Jelly, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Creams, Nail Bleaches, Nail Powders, Nail Polishes, Witch Hazel, Peroxide, Petroleum Jellies, Witch Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes and Toilet Waters.
Claims use since Feb. 16, 1932.

304,691. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. FINN & Co., New York, N. Y. Filed Sept. 1, 1931. Serial No. 318,622.

FLANELA

For Cotton Piece Goods.
Claims use since Jan. 14, 1931.

304,692. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) RANKIN & CO., INC., San Francisco, Calif. Filed Dec. 16, 1931. Serial No. 322,188.

"TUFFGUT"

For Fishing Tackle—Namely, Gut Leaders, Coiled Gut Snelled Hooks, Snelled Flies, and Snelled Snag Gangs, the Latter Being a Group of Hooks Provided with a Single Snell.
Claims use since Dec. 11, 1931.

TRADE-MARK REGISTRATIONS RENEWED

40,469. ELASTIC OR CUSHION HEELS AND SOLES FOR BOOTS AND SHOES. Registered June 2, 1903. FRANK W. WHITCHER, Boston, Mass. Renewed June 2, 1933, to United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass., a Corporation of New Jersey, assignee by mesne assignments.

40,516. DRAWING-PAPER. Registered June 9, 1903. KNUFFEL AND ESSER COMPANY, Hoboken, N. J., a Corporation of New Jersey. Renewed June 9, 1933.

40,581. BLUE PRINT PAPER. Registered June 16, 1903. KNUFFEL AND ESSER COMPANY, Hoboken, N. J., a Corporation of New Jersey. Renewed June 16, 1933.

40,596. A REMEDY FOR CERTAIN NAMED PURPOSES. Registered June 16, 1903. CHEMICAL WORKS FORMERLY SANDOZ, Basle, Switzerland. Renewed June 16, 1933, to Sandoz Chemical Works, Inc., New York, N. Y., a Corporation of New York, assignee.

40,738. FLOUR. Registered July 7, 1903. OKLAHOMA CITY MILL & ELEVATOR CO., Oklahoma, Okla. Territory. Renewed July 7, 1933, to General Mills, Inc., Minneapolis, Minn., a Corporation of Delaware, assignee.

41,178. CURED MEATS. Registered September 29, 1903. GEO. A. HORMEL & Co. Renewed September 29, 1933, to Geo. A. Hormel & Co., Austin, Minn., a Corporation of Delaware, assignee.

41,221. SMOKING TOBACCO AND CIGARETTES. Registered October 6, 1903. ALBERT LEVY. Renewed October 6, 1933. Ardath Tobacco Company, Limited, London, England, a Corporation of Great Britain, assignee by mesne assignments.

41,318. ALL KINDS OF WRITING PAPER. Registered October 20, 1903. SIR ISAAC PITMAN & SONS, LIMITED, Bath, England, a Corporation of Great Britain. Renewed October 20, 1933.

41,324. SMOKING TOBACCO AND CIGARETTES. Registered October 20, 1903. ALBERT LEVY. Renewed October 20, 1933, to Ardath Tobacco Company, Limited, London, England, a Corporation of Great Britain, assignee by mesne assignments.

86,648. SNAP-BUTTONS USED AS GARMENT-FASTENERS. Registered May 21, 1912. WALDES & CIE., Prague-Wrschowitz, Austria-Hungary. Renewed May 21, 1932, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a Corporation of New York, assignee by mesne assignments.

91,200. MEDICATED PASTILS AND LOZENGES. Registered April 22, 1913. SALVADOR ANDREU GRAU. Renewed April 22, 1933, to Hijos Del Doctor Andreu, Barcelona, Spain, a Firm, successor.

91,201. ANTI-ASTHMATIC CIGARETTES CONTAINING NO TOBACCO. Registered April 22, 1913. SALVADOR ANDREU GRAU. Renewed April 22, 1933, to Hijos Del Doctor Andreu, Barcelona, Spain, a Firm, successor.

91,202. ANTI-ASTHMATIC FUMIGATING-PAPER. Registered April 22, 1913. SALVADOR ANDREU GRAU. Renewed April 22, 1933, to Hijos Del Doctor Andreu, Barcelona, Spain, a Firm, successor.

91,500. WIRE NAILS, NUTS, BOLTS AND RIVETS, WASHERS, SCREWS, AND TACKS. Registered May 6, 1913. ARNOLD OTTO MEYER, Hamburg, Germany, a Firm. Renewed May 6, 1933.

91,765. PUZZLES. Registered May 27, 1913. FORSHEIM & KONIGSBERG, New York, N. Y., a Firm. Renewed May 27, 1933.

91,874. RUBBER BOOTS, SHOES, OVERSHOES, AND RUBBER-SOLED CANVAS BOOTS AND SHOES. Registered June 3, 1913. HOOD RUBBER COMPANY, Boston, Mass. Renewed June 3, 1933, to Hood Rubber Company, Inc., Wilmington, Del., a Corporation of Delaware, assignee.

92,019. SNAP-BUTTONS USED AS GARMENT-FASTENERS. Registered June 10, 1913, to WALDES & CO., Prague-Wrschowitz, Austria-Hungary. Renewed June 10, 1933, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a Corporation of New York, assignee by mesne assignments.

92,134. RUBBER TIRES FOR AUTOMOBILES. Registered June 17, 1913. SEARS, ROEBUCK AND CO., Chicago, Ill., a Corporation of New York. Renewed June 17, 1933.

92,150. SNAP-BUTTONS USED AS GARMENT-FASTENERS. Registered June 17, 1913. WALDES & CO., Prague-Wrschowitz, Austria-Hungary. Renewed June 17, 1933, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a Corporation of New York, assignee by mesne assignments.

92,151. SNAP-BUTTONS USED AS GARMENT-FASTENERS. Registered June 17, 1913. WALDES & CO., Prague-Wrschowitz, Austria-Hungary. Renewed June 17, 1933, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a Corporation of New York, assignee by mesne assignments.

92,160. FERTILIZERS. Registered June 24, 1913. AMERICAN AGRICULTURAL CHEMICAL COMPANY. Renewed June 24, 1933, to The American Agricultural Chemical Company, New York, N. Y., a Corporation of Delaware, assignee.

92,217. ELECTRIC COFFEE-MILLS, MEAT-CHOPPERS, BONE-GRINDERS, AND TOOL-GRINDERS. Registered June 24, 1913, THE HOBART ELECTRIC MFG. CO. Renewed June 24, 1933, to The Hobart Manufacturing Company, Troy, Ohio, a Corporation of Ohio, assignee.

92,227. A MEDICINAL PREPARATION FOR THE TREATMENT OF EMACIATION. Registered June 24, 1913. WYLIE B. JONES. Renewed June 24, 1933, to John C. Clark, Binghamton, N. Y., assignee.

92,270. ELECTRIC HORNS FOR AUTOMOBILES AND OTHER VEHICLES. Registered June 24, 1913. SEARS, ROEBUCK AND CO., Chicago, Ill., a Corporation of New York. Renewed June 24, 1933.

92,465. LEATHER AND CANVAS SHOES. Registered July 8, 1913. ABRAHAM POSNER. Renewed July 8, 1933, to Dr. A. Posner Shoes, Inc., New York, N. Y., a Corporation of New York, assignee.

92,577. FIBROUS AND TEXTILE ROPE AND TWINE. Registered July 15, 1913. PLYMOUTH CORDAGE COMPANY, Plymouth Mass., a Corporation of Massachusetts. Renewed July 15, 1933.

92,598. RECORDING-BAROMETERS. Registered July 15, 1913. TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y., a Corporation of New York. Renewed July 15, 1933.

92,809. WHEAT-FLOUR. Registered July 29, 1913. MANEY MILLING COMPANY, Omaha, Nebr., a Corporation of Nebraska. Renewed July 29, 1933.

92,879. PAPER FOR USE IN STENCIL WORK. Registered August 5, 1913. A. B. DICK COMPANY. Renewed August 5, 1933, to A. B. Dick Company, Chicago Ill., a Corporation of Illinois, assignee.

93,111. MILLING-MACHINES. Registered August 19, 1913. THE ORVILLE SIMPSON COMPANY, Cincinnati, Ohio, a Corporation of Ohio. Renewed August 19, 1933.

93,117. PARASOLS AND UMBRELLAS. Registered August 19, 1913. F. REVEL PERE & FILS. Renewed August 19, 1933, to Parapluie Revel, Lyon, France, a Corporation of France, successor.

93,395. FERTILIZERS. Registered September 9, 1913. J. E. TYGERT COMPANY, Philadelphia, Pa. Renewed September 9, 1933, to The American Agricultural Chemical Company, New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

93,428. TALKING-MACHINES AND TALKING-MACHINE RECORDS. Registered September 16, 1913. COLUMBIA GRAPHOPHONE COMPANY, Washington, D. C. Renewed September 16, 1933, to Columbia Phonograph Company, Inc., Bridgeport, Conn., a Corporation of New York, assignee by mesne assignments.

93,887. FOOD JELLIES, BLANC-MANGE AND CUSTARD POWDERS, AND FRUIT POWDERS. Registered October 21, 1913. MONKHOUSE AND GLASSCOCK LIMITED, Bermondsey, London, England, a Corporation of Great Britain. Renewed October 21, 1933.

93,974. A FLUID ADAPTED FOR USE IN STENCILING. Registered October 28, 1913. A. B. DICK COMPANY. Renewed October 28, 1933, to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois, assignee.

94,148. COPPER WIRE. Registered November 11, 1913. THE AMERICAN BRASS COMPANY, Waterbury, Conn., a Corporation of Connecticut. Renewed November 11, 1933.

94,164. A LIQUID POLISH. Registered November 11, 1913. WILLIAM CHAMBERS & SON, Buffalo, N. Y., a Firm. Renewed November 11, 1933.

94,320. MACARONI. Registered November 25, 1913. JOSEPH PETROCELLI & COMPANY. Renewed November 25, 1933, to Cellas', Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

LABELS

REGISTERED JULY 11, 1933

42,365.—*Title:* RAINBO. For Bread. P. D. ARCHER, Kansas City, Mo. Published January 27, 1933.

42,366.—*Title:* RAINBO. For Cookies. P. D. ARCHER, Kansas City, Mo. Published May 4, 1933.

42,367.—*Title:* MRS. BAINS MUFFLITE. For Mixture Containing Flour and Other Ingredients for Muffins, Short-cake and the Like. MRS. BAIN, Washington, D. C. Published October 1, 1933.

42,368.—*Title:* COLONIAL. For Bread. C. O. BECK, Kansas City, Mo. Published May 27, 1933.

42,369.—*Title:* FRESH AND SPARKLING AS THE DEW IN THE DAWN. For Fruit Cake. W. H. BROOKS, San Francisco, Calif. Published December 15, 1932.

42,370.—*Title:* FACOMA ISLAND BELLE GRAPE JUICE. For Grape Juice. CHINA AMERICA CORPORATION LTD., Tacoma, Wash. Published April 18, 1933.

42,371.—*Title:* FLOWER BASKET PILLOW OUTFIT ARTICLE V. S. 80—Design 2585. For Pillow Outfits. COLLINGBOURNE MILLS INC., doing business as Dexter, Virginia Snow Studios, Jap Silk Co., and Berkshire & Becket Silk Co., Elgin, Ill. Published May 22, 1933.

42,372.—*Title:* APPLE BLOSSOM PILLOW OUTFIT, ARTICLE V. S. 80—DESIGN 2586. For Pillow Outfits. COLLINGBOURNE MILLS INC., doing business as Dexter, Virginia Snow Studios, Jap Silk Co., and Berkshire & Becket Silk Co., Elgin, Ill. Published May 22, 1933.

42,373.—*Title:* FLORAL WREATH PILLOW OUTFIT ARTICLE V. S. 80—DESIGN 2587. For Pillow Outfits. COLLINGBOURNE MILLS INC., doing business as Dexter, Virginia Snow Studios, Jap Silk Co., and Berkshire & Becket Silk Co., Elgin, Ill. Published May 22, 1933.

42,374.—*Title:* A ROSE FOR YOUR PILLOW OUTFIT, ARTICLE V. S. 80—DESIGN 2588. For Pillow Outfits. COLLINGBOURNE MILLS INC., doing business as Dexter, Virginia Snow Studios, Jap Silk Co., and Berkshire & Becket Silk Co., Elgin, Ill. Published May 22, 1933.

42,375.—*Title:* CENTURY OF PROGRESS PILLOW OUTFIT—ARTICLE V. S. 80—DESIGN 2590. For Pillow Outfits. COLLINGBOURNE MILLS INC., doing business as Dexter, Virginia Snow Studios, Jap Silk Co., and Berkshire & Becket Silk Co., Elgin, Ill. Published May 22, 1933.

42,376.—*Title:* FISCHER'S OLD HOME. For Vienna Bread. FISCHER BAKING COMPANY, Newark, N. J. Published February 1, 1933.

42,377.—*Title:* FISCHER'S OLD HOME. For Rye Bread. FISCHER BAKING COMPANY, Newark, N. J. Published November 8, 1932.

42,378.—*Title:* GARDEN-INDEX. For Indexes. GARDEN INDEX CO. INC., New York, N. Y. Published May 6, 1933.

42,379.—*Title:* WEAVE TRUTH WITH TRUST. For Fabrics. INSTITUTE OF CARPET MANUFACTURERS OF AMERICA, INC., New York, N. Y. Published September 8, 1932.

42,380.—*Title:* SCHOOL TEACHER COFFEE. For Coffee. GRADE A. KING, Chicago, Ill. Published March 15, 1933.

42,381.—*Title:* KRUG'S WHOLE WHEAT BREAD. For Bread. GEORGE A. KRUG BAKING COMPANY, Jamaica, N. Y. Published May 3, 1933.

42,382.—*Title:* KRUG'S BIG-PAN BREAD. For Bread. GEORGE A. KRUG BAKING COMPANY, Jamaica, N. Y. Published May 24, 1933.

42,383.—*Title:* KRUG'S RYE BREAD. For Bread. GEORGE A. KRUG BAKING COMPANY, Jamaica, N. Y. Published May 22, 1933.

42,384.—*Title:* KRUG'S SLICED BREAD. For Bread. GEORGE A. KRUG BAKING COMPANY, Jamaica, N. Y. Published May 24, 1933.

42,385.—*Title:* KRUG'S TOASTMASTER BREAD. For Bread. GEORGE A. KRUG BAKING COMPANY, Jamaica, N. Y. Published May 22, 1933.

42,386.—*Title:* LESTON'S "CREOLE RELISH". For Relish. LESTON COMPANY, St. Louis, Mo. Published July 8, 1932.

42,387.—*Title:* POLAR SEAL. For Anti-Freeze Preparation Consisting of Glycerine and Alcohol for Use in Automobile Radiators. JACOB LIPITZ, doing business as Keystone Oils and Naval Stores, Grenloch, N. J. Published December 1, 1932.

42,388.—*Title:* LITHOTERPS. For Lithographic Solvent. LITHOGRAPHIC TECHNICAL FOUNDATION, INC., New York, N. Y. Published September 12, 1932.

42,389.—*Title:* NONPAREY. For Antiseptic Powder. EVA MOSKOW, doing business as Nonparey Laboratories, Los Angeles, Calif. Published May 24, 1933.

42,390.—*Title:* NASSOUR BALM. For Balm for Softening the Skin. NASSOUR BROTHERS INC. LTD., Los Angeles, Calif. Published May 10, 1933.

42,391.—*Title:* CREAM MINTS. For Cream Mints. PETER PAUL, INC., Naugatuck, Conn. Published April 29, 1933.

42,392.—*Title:* KOOL. For Cream for Tired Burning Feet. WINFIELD GRAVES PIPER, doing business as The Kool Chemical Co., West Roxbury, Mass. Published April 21, 1932.

42,393.—*Title:* QUILL, THE PERFECT INK FOR YOUR PEN. For Ink. QUILL INK CORPORATION, New York, N. Y. Published June 6, 1933.

42,394.—*Title:* GOLDEN-TIP. For Tea. SINN BROTHERS, New York, N. Y. Published June 1, 1933.

42,395.—*Title:* THE STANDARD WELDED WIRE HOOD SEAL. For Hood Seals for Bottles. STANDARD CAP AND SEAL CORPORATION, Chicago, Ill. Published March 10, 1933.

42,396.—*Title:* TRIG' ARROW PUZZLE. For Puzzles. HENRY EDWARD STROHECKER, doing business as stroHEcker, Enon Valley, Pa. Published April 8, 1933.

42,397.—*Title:* UPHOLSTERERS', CARPET AND LINOLEUM MECHANICS' INTERNATIONAL UNION OF N. A. For Upholstered Furniture, Mattresses, Box Springs, Curtains, Draperies and Shades. UPHOLSTERERS', CARPET AND LINOLEUM MECHANICS' INTERNATIONAL UNION OF NORTH AMERICA, New York, N. Y. Published February 4, 1933.

42,398.—*Title:* EAR SUNFREZE ICE CREAM FOR VITAL ENERGY. For Ice Cream. WESTERN DAIRY PRODUCTS CO., Seattle, Wash. Published March 1, 1933.

42,399.—*Title:* CARAMEL NUT POPCORN CONFECTION. For Popcorn Confection. THE WILSON PRODUCTS CO., INC., Tyrone, Pa. Published June 1, 1933.

PRINTS

REGISTERED JULY 11, 1933

14,258.—*Title:* ARMOUR'S STAR HAM. For Ham. ARMOUR AND COMPANY, Chicago, Ill. Published May 20, 1933.

14,259.—*Title:* DIXIE SERVICE STATION PRODUCTS. For Oil and Gas. DIXIE SERVICE STATIONS INCORPORATED, Jackson, Miss. Published May 12, 1933.

14,260.—*Title:* HAPPE DAYS TO ALL. For Publication Entitled National Liquor Trades Review. DANIEL F. FITZGERALD, Boston, Mass. Published April 7, 1933.

14,261.—*Title:* THIS WEEK! YOUR BAKER IS BAKING THIS BETTY CROCKER MILK CHOCOLATE CAKE. For Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published March 21, 1933.

14,262.—*Title:* NOW YOU'LL BE 3 TIMES SAFER FROM BLOW-OUTS AT HIGH SPEEDS (AD NO. GP. 2). For Rubber Tires. THE B. F. GOODRICH RUBBER COMPANY, Akron, Ohio. Published April 11, 1933.

14,263.—*Title:* BANISH FEAR OF BLOW-OUTS (AD NO. GP—4). For Rubber Tires. THE B. F. GOODRICH RUBBER COMPANY, Akron, Ohio. Published May 20, 1933.

14,264.—*Title:* WHY RISK YOUR LIFE WHEN BLOW-OUT PROTECTION IS FREE? (AD NO. GP—5). For Rubber Tires. THE B. F. GOODRICH RUBBER COMPANY, Akron, Ohio. Published June 10, 1933.

14,265.—*Title:* AVOID BLOW-OUTS . . . WITH THIS AMAZING NEW TIRE INVENTION (AD NO. GBC—313). For Rubber Tires. THE B. F. GOODRICH RUBBER COMPANY, Akron, Ohio. Published June 12, 1933.

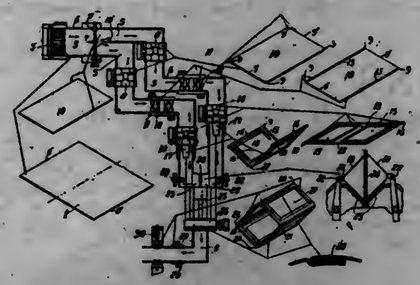
14,266.—*Title:* TATOO CHEWING GUM—DOGS—DORGS—DAWGS. For Chewing Gum. ORBIT GUM COMPANY, Chicago, Ill. Published May 27, 1933.

14,267.—*Title:* THE TRIG' PUZZLE. For Novelty Puzzles. HENRY EDWARD STROHECKER, doing business as stroHEcker, Enon Valley, Pa. Published April 8, 1933.

REISSUES

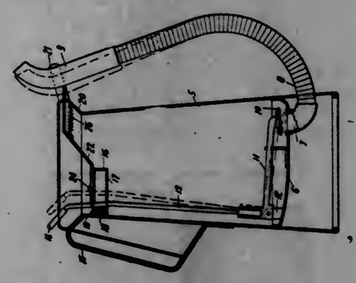
JULY 11, 1933

18,890. METHOD OF AND APPARATUS FOR MAKING ANGULAR CONTAINERS. JAMES A. GRAY, San Francisco, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Original No. 1,792,978, dated Feb. 17, 1931, Serial No. 142,832, filed Oct. 20, 1926. Application for reissue filed Feb. 17, 1933. Serial No. 657,249. 19 Claims. (Cl. 113—8.)



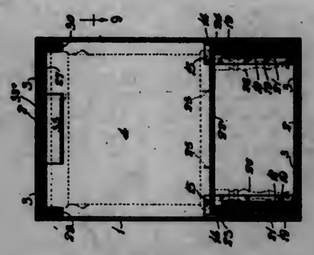
1. An organised apparatus for making angular containers, comprising means for preparing separate substantially duplicate body forming sections of angular shape, means for assembling and permanently uniting said sections into angular body forming relation, means for preparing body end closing members, means for uniting said ends to the respective ends of the formed body, and means for soldering the container joint seams, all of said means comprising machines arranged in a connected line and adapted to produce finished containers by successive operations upon the sections as the latter are automatically fed along the line, and conveying means acting in co-ordination with and intermediate said preparing means, uniting means and soldering means.

18,891. LIQUID DISPENSING CAN. PAUL D. FULTON, Dayton, Ohio, assignor to The Huffman Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Original No. 1,901,504, dated Mar. 14, 1933, Serial No. 419,605, filed Jan. 9, 1930. Application for reissue filed Apr. 29, 1933. Serial No. 669,373. 23 Claims. (Cl. 221—16.)



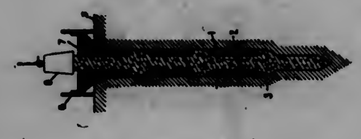
1. In a liquid dispensing can comprising a receptacle, a spout leading from the lower portion of said receptacle, and a valve to control the discharge of liquid through said spout, means arranged to be actuated by said spout when the latter is moved to an upright position to cause said valve to be closed.

18,892. FIBERBOARD SHIPPING CARTON. EARL S. GOMBS, Cincinnati, Ohio. Original No. 1,841,025, dated Jan. 12, 1932, Serial No. 535,463, filed May 6, 1931. Application for reissue filed Mar. 18, 1933. Serial No. 661,930. 10 Claims. (Cl. 229—14.)



9. In a shipping carton of the class described a pair of self-contained units, each unit composed of an upright member adapted to lie against the inner surface of the carton wall, a substantially solid member attached to said upright member to form a self-contained unit, the upper edge of said solid member being so positioned as to form a supporting ledge.

18,893. METHOD FOR CONCRETE PILING. SHOJIRO TAKECHI, Osaka, Japan. Original No. 1,792,383, dated Feb. 10, 1931, Serial No. 255,731, filed Feb. 20, 1928, and in Japan Mar. 19, 1927. Application for reissue filed Oct. 25, 1932. Serial No. 639,506. 3 Claims. (Cl. 61—53.)

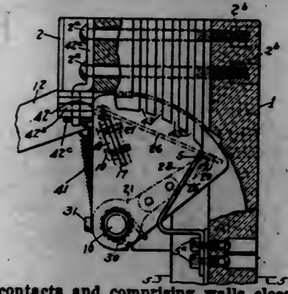


1. The method of driving and packing piling comprising the employment of a pile having a plurality of spaced enlargements, driving said pile by percussive means, arranging a supply of fluent solid filling material closely about said pile, whereby the filling material will flow down the hole about the pile as one of said enlargements moves downward below the top of said hole, filling the space above said enlargement and between said pile and the wall of said hole, until the succeeding enlargement

temporarily closes the top of said hole, the vibration set up by the percussive driving means serving to promote the flow of filling material and tending to pack it between said wall and said pile.

18,894. AUTOMATIC CIRCUIT BREAKER. JOSEPH SACHS, West Hartford, Conn. Original No. 1,840,978, dated Jan. 12, 1932, Serial No. 443,067, filed Apr. 10, 1930. Application for reissue filed Apr. 27, 1933. Serial No. 668,234. 40 Claims. (Cl. 200—116.)

24. The combination in an automatic circuit breaker, of a stationary contact, a movable contact adapted to engage and disengage the stationary contact, the last said contact being biased for movement in the circuit-opening direction and being normally held mechanically against such movement, an electro-responsive element bodily movable with the movable contact and arranged to be energized upon the attainment of an abnormal current condition in the circuit so as to mechanically release the said contact and thus permit it to automatically move to open-circuit position, and insulating means associated

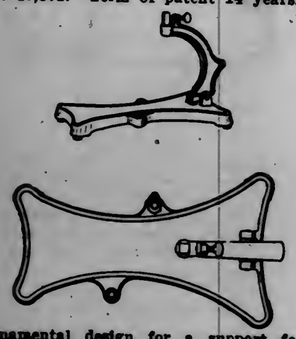


with the contacts and comprising walls closely adjacent three sides of the path of movement of the movable contact.

DESIGNS

JULY 11, 1933

90,276. SUPPORT FOR CULINARY APPLIANCES. OSCAR M. ANDERSON, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Apr. 24, 1933. Serial No. 47,871. Term of patent 14 years.



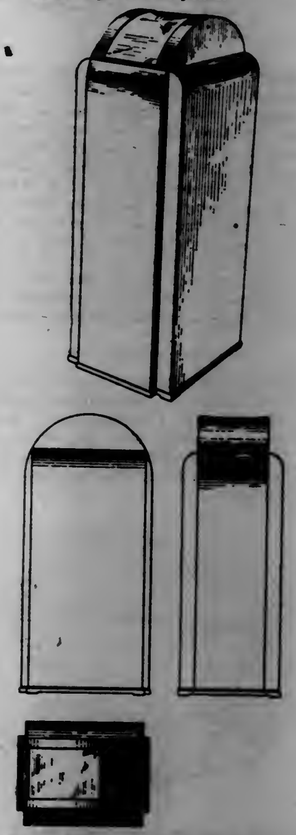
The ornamental design for a support for culinary appliances as shown.

90,277. SPOON OR OTHER ARTICLE OF FLATWARE. ERNEST T. BECK, Stuttgart, Germany, assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed May 3, 1933. Serial No. 47,973. Term of patent 14 years.



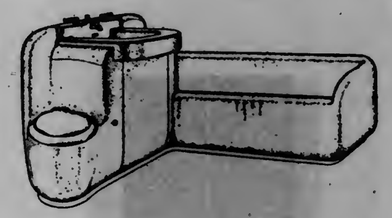
The ornamental design for a spoon, or other article of flatware, substantially as shown and described.

90,278. TELETYPEWRITER CABINET. EDWIN A. BESCHERER, Brooklyn, N. Y., assignor to Bell Telephone Laboratories Incorporated, New York, N. Y., a Corporation of New York. Filed May 2, 1933. Serial No. 47,967. Term of patent 14 years.



The ornamental design for a teletypewriter cabinet as shown.

90,279. COMBINATION BATHROOM UNIT. ROBERT DAVOL BUDLONG, Chicago, Ill., assignor of one-half to James H. Rook, Chicago, Ill. Filed Apr. 14, 1933. Serial No. 47,785. Term of patent 3½ years.



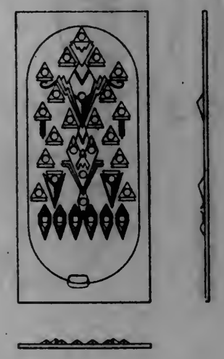
The ornamental design for a combination bathroom unit, as shown.

90,280. BURIAL VAULT. ALBERT C. FEITS, Evergreen Park, Ill. Filed Apr. 6, 1933. Serial No. 47,712. Term of patent 7 years.



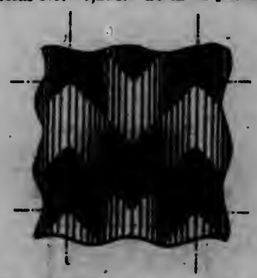
The ornamental design for a burial vault, as shown.

90,281. GAME BOARD. LOUIS W. GENSBURG, Chicago, Ill. Filed Mar. 22, 1933. Serial No. 47,546. Term of patent 3½ years.



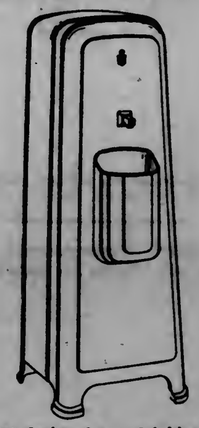
The ornamental design for a game board as shown.

90,282. TEXTILE FABRIC OR SIMILAR ARTICLE. JOSEPH M. GOTTESMAN, Paris, France, assignor to William Willheim Co., Inc., New York, N. Y. Filed Dec. 1, 1932. Serial No. 46,214. Term of patent 3½ years.



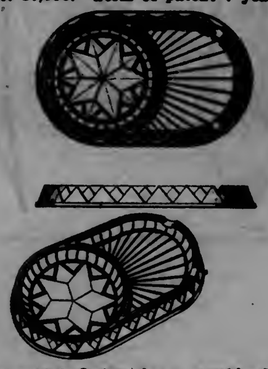
The ornamental design for a textile fabric or similar article as shown and described.

90,283. DRINKING WATER COOLER. MARTIN J. GOULOOZE, Grand Rapids, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Apr. 29, 1933. Serial No. 47,941. Term of patent 14 years.



The ornamental design for a drinking water cooler as shown.

90,284. COMBINED COASTER AND ASH TRAY. ALBERT E. GUNDELACH, Chicago, Ill. Filed Mar. 31, 1933. Serial No. 47,656. Term of patent 7 years.



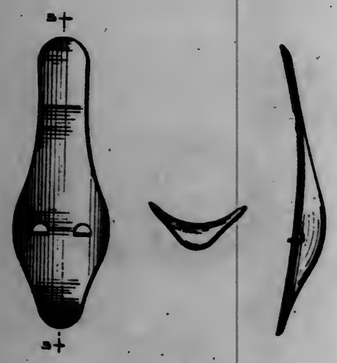
The ornamental design for a combined coaster and ash tray, substantially as shown.

90,285. LUNCH STAND. KENNETH J. HINES, Falls Church, Va. Filed Mar. 23, 1933. Serial No. 47,549. Term of patent 3½ years.



The ornamental design for a lunch stand as shown and described.

90,286. SHOE HORN. HENRY JOSEPHS, New York, N. Y. Filed Dec. 3, 1932. Serial No. 46,297. Term of patent 7 years.



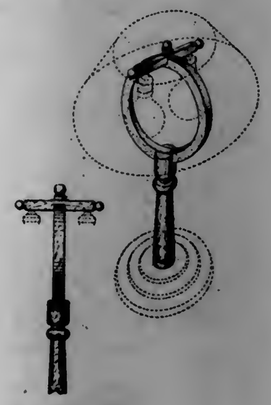
The ornamental design for a shoe horn, substantially as shown.

90,287. ELASTIC FABRIC. ARTHUR KNAUER, West Reading, Pa., assignor to Narrow Fabric Company, West Reading, Pa., a Corporation of Pennsylvania. Filed Sept. 28, 1932. Serial No. 45,108. Term of patent 14 years.



The ornamental design for an elastic fabric as shown and described.

90,288. LAMP OR SIMILAR ARTICLE. BENJAMIN F. LEE, Niagara Falls, N. Y. Filed Apr. 8, 1933. Serial No. 47,735. Term of patent 14 years.



The ornamental design for a lamp or similar article, substantially as shown.

90,289. TEXTILE FABRIC OR SIMILAR ARTICLE. MARCEL LIBERT, Paris, France, assignor to William Willheim Co. Inc., New York, N. Y. Filed June 8, 1933. Serial No. 48,265. Term of patent 3½ years.



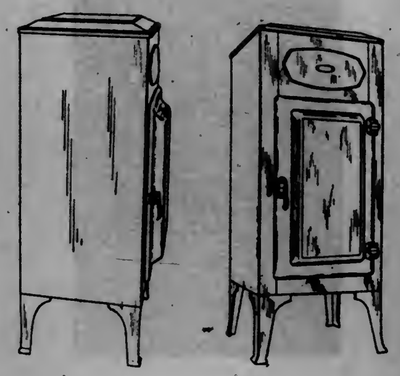
The ornamental design for a textile fabric or similar article as shown.

90,290. JAR OR SIMILAR CONTAINER. HARRY R. MCDONALD, Dunkirk, Ind., assignor to Hart Glass Manufacturing Company, Dunkirk, Ind., a Corporation of Indiana. Filed May 6, 1933. Serial No. 48,032. Term of patent 7 years.



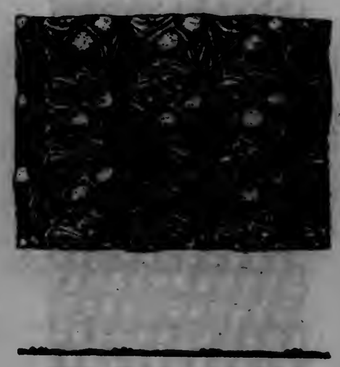
The ornamental design for a jar or similar container, as shown.

90,291. REFRIGERATOR CABINET. ROLAND H. MONEY, Cincinnati, Ohio, assignor to The Crosley Radio Corporation, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 23, 1933. Serial No. 47,559. Term of patent 14 years.



The ornamental design for a refrigerator cabinet as shown and described.

90,292. COMPOSITE FABRIC. DOROTHY P. MURPHY, Babylon, N. Y. Filed Apr. 11, 1933. Serial No. 47,754. Term of patent 3½ years.



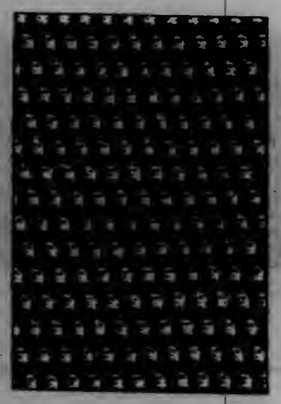
The ornamental design for a composite fabric substantially as shown and described.

90,293. TEXTILE FABRIC. JOSEPH PERSKY, New York, N. Y. Filed June 12, 1933. Serial No. 48,372. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown and described.

90,294. TEXTILE FABRIC. JOSEPH PERSKY, New York, N. Y. Filed June 12, 1933. Serial No. 48,373. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown and described.

90,295. TEXTILE FABRIC. JOSEPH PERSKY, New York, N. Y. Filed June 12, 1933. Serial No. 48,374. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown and described.

90,296. TEXTILE FABRIC. JOSEPH PERSKY, New York, N. Y. Filed June 12, 1933. Serial No. 48,375. Term of patent 3½ years.



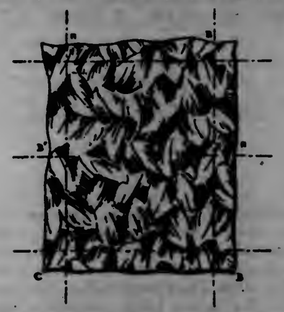
The ornamental design for a textile fabric, substantially as shown and described.

90,297. GAME BOARD. FOREMAN A. ROGERS, Auburn, Ala. Filed Apr. 26, 1933. Serial No. 47,909. Term of patent 7 years.



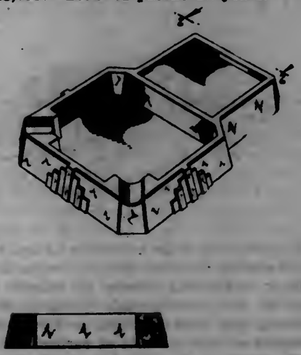
The ornamental design for a game board, as shown and described.

90,298. TEXTILE FABRIC OR SIMILAR ARTICLE. JACK SCHWEIZER, New York, N. Y., assignor to William Willheim Co., Inc., New York, N. Y. Filed Dec. 1, 1932. Serial No. 46,267. Term of patent 3½ years.



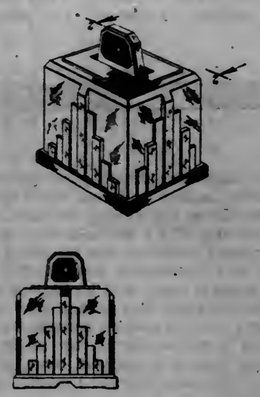
The ornamental design for a textile fabric or similar article as shown and described.

90,299. ASH TRAY. EDGAR M. SORENG, Chicago, Ill., assignor to Soreng-Manegold Company, Chicago, Ill., a Corporation of Illinois. Filed May 13, 1933. Serial No. 48,097. Term of patent 14 years.



The ornamental design for an ash tray as shown.

90,300. CIGAR AND CIGARETTE LIGHTER. EDGAR M. SORENG, Chicago, Ill., assignor to Soreng-Manegold Company, Chicago, Ill., a Corporation of Illinois. Filed May 13, 1933. Serial No. 48,098. Term of patent 14 years.



The ornamental design for a cigar and cigarette lighter, as shown.

90,301. TOY. LADISLAS TURCHANYI, Saabalom, near Budapest, Hungary, assignor to Magyar Ruggyantaarugyar Reszvenytarsasag, Budapest, Hungary, a Corporation of Hungary. Filed Apr. 14, 1933. Serial No. 47,787. Term of patent 7 years.

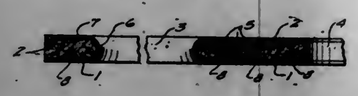


The ornamental design for a toy substantially as shown and described.

PATENTS

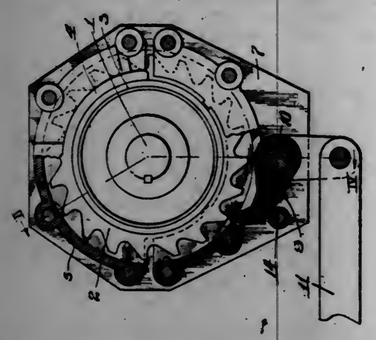
GRANTED JULY 11, 1933

1,917,214. GASKET. CLAUDE B. BAILEY, Wyandotte, Mich., assignor to McCord Radiator & Mfg. Co., Detroit, Mich., a Corporation of Maine. Filed June 19, 1930. Serial No. 462,202. 2 Claims. (Cl. 288—1.)



1. A gasket comprising superimposed layers of metallic and non-metallic cushion material, said layers being coextensive and having registering openings, said metallic layer being provided with a multiplicity of struck out projections distributed thereover and extending to an appreciable extent into the cushion material for securing the same to the metallic layer, said projections being conical in shape to provide them with pointed outer ends to facilitate their entry into the cushion material on pressing the layers together in the making of the gasket and to provide the projections with rounded bases adjacent their connection with the metallic layer to resist bending of the projections under such pressure and to provide the projections with surrounding walls extending a substantially uniform distance from the metal layer to resist relative shifting of the layers in the plane of the gasket under such pressure and when secured together.

1,917,215. SAFETY PAWL. HARRY H. BARBER, Aurora, Ill., assignor to Barber Greene Company, Aurora, Ill., a Corporation of Illinois. Filed Oct. 15, 1930. Serial No. 488,765. 2 Claims. (Cl. 188—81.)



1. The combination with a rotatable shaft, a ratchet wheel keyed upon said shaft, a housing surrounding said ratchet wheel for relative rotation, said housing and ratchet wheel having contacting flanges for frictional engagement, a pawl pivoted to said housing, a support and a link connecting said support with said pawl whereby rotational movement of said housing will swing said pawl for the purpose set forth.

1,917,216. SPRINKLING NOZZLE. MARTIN C. BEASTED, San Diego, Calif. Filed Mar. 5, 1930. Serial No. 433,272. 5 Claims. (Cl. 299—131.)

1. In a sprinkling nozzle, a body member securable to a hose fitting, a tubular shank extending therefrom, a shell fitting over and journalling upon said shank, a traveler member supported wholly within the extremities of said shank, a jet orifice formed at one end of said



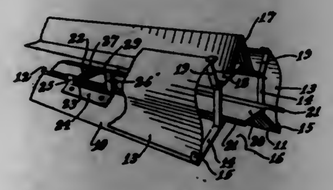
shell member, and a jet regulating needle swivelly mounted on said traveler member and actuated by said shell for regulating the flow of water through said orifice.

1,917,217. LINER FOR GARBAGE RECEPTACLES. THOMAS F. CURRY, Los Angeles, Calif. Filed Sept. 23, 1930. Serial No. 483,789. 3 Claims. (Cl. 220—65.)



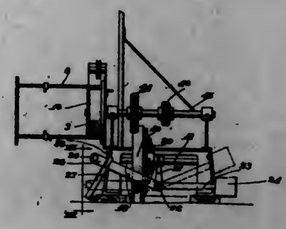
1. The method of forming a container for receptacles, which consists in taking a square blank of waterproof material, creasing the same along median lines in two directions at right angles to each other, partially rolling the blank along said median lines to form corners whereby the square blank assumes a container appearance expansible at said rolled corners.

1,917,218. CONTINUOUS RIDGE VENTILATOR. MACDOUGALD DEXTER, Columbus, Ga., assignor to Dexter Ventilator Company, a Corporation of Georgia. Filed Aug. 4, 1930. Serial No. 472,891. 9 Claims. (Cl. 98—42.)



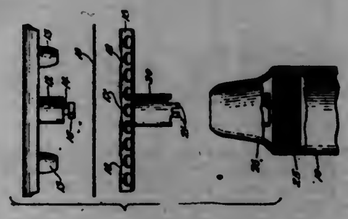
1. In a continuous ridge ventilator having an elongated damper for closing the ridge opening, means to manipulate said damper comprising means to impart longitudinal movement to the damper and similarly inclined fixed guides arranged at intervals along each side of the damper in combination with a series of perforated lugs on each side of the damper adapted to receive and slide on said guides.

1,917,219. WIRE DRAWING MACHINE. PAUL W. DILLON, Sterling, Ill., assignor to Northwestern Barbwire Co., Sterling, Ill., a Corporation of Illinois. Filed Dec. 5, 1927. Serial No. 237,745. 1 Claim. (Cl. 205—14.)



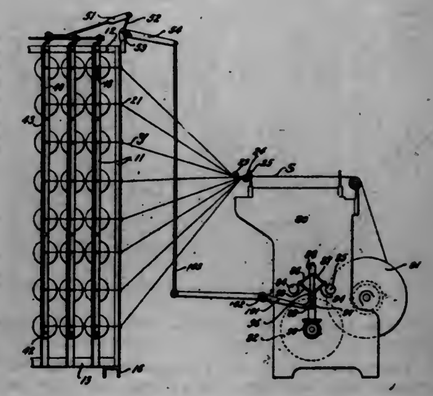
In a machine of the character described, a driven shaft having a clutch drum thereon, a driving shaft having a clutch member for engaging said drum, a shipper lever for engaging said clutch member, a rod extending longitudinally of the machine and connected to said shipper lever, a second rod extending parallel to the first rod, arms connecting said rods, a latch lever pivoted to said machine and having a shoulder for engaging one of said arms, a spring for maintaining said shoulder in engagement with said arm, a brake for said clutch drum, a connection between said brake and one of said arms, gravity weights connected to the first rod for automatically rotating the same for disengaging said clutch member, said latch lever normally holding said gravity weights in elevated position, and means whereby said latch lever may be released from said arm for allowing said counterweights to actuate said first mentioned rod for disengaging said clutch and elevating said arms and applying said brake.

1,917,220. SAFETY RAZOR. ARTHUR A. GROTHE, Oak Park, Ill., assignor to William J. Cameron, Chicago, Ill. Filed Nov. 18, 1929. Serial No. 407,830. 1 Claim. (Cl. 30—12.)



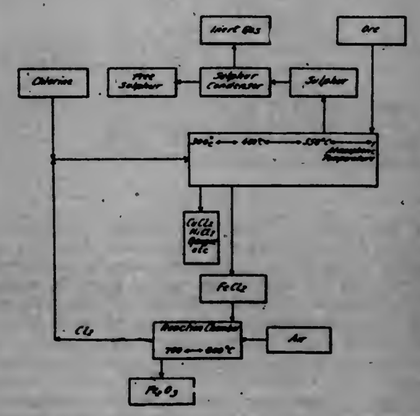
A safety razor comprising a blade carrying head and a handle therefor, said head comprising a guard member and clamping member for securing a blade between the guard and clamping member, a stub tube extending down from said guard, a stud on the clamp member telescoped in said tube, a hollow extension yieldingly mounted on the adjacent end of the handle having a key-way in its outer end and telescoped by said tube, a key on said stud that interlocks with said key-way, a stationary post at the end of the handle on which said hollow extension is mounted and which extends up into said extension, and lateral members on said post that project through said extension to engage the lower edge of said stub tube, said stub tube having a graduated notched lower edge coacting with said lateral members for predetermining the adjustable flexing of the blade.

1,917,221. TEXTILE MECHANISM. EDWARD J. ABBOTT, Wilton, N. H., assignor to Abbott Machine Company, Wilton, N. H., a Corporation of New Hampshire. Filed July 3, 1931. Serial No. 548,492. 8 Claims. (Cl. 28—35.)



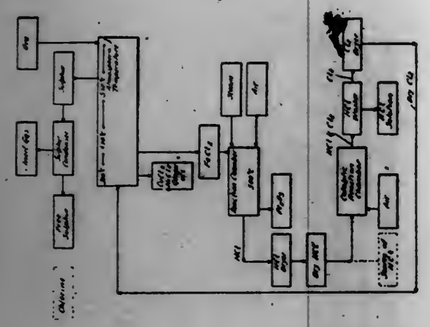
1. Warping apparatus having therein a creel adapted to support a plurality of unwinding supply strand masses, a warper arranged to draw off and wind the strands from said supply masses, means adapted to clamp each of the several strands adjacent to its supply mass, speed responsive mechanism connected to the warper to respond to changes in speed of the warper, and means connecting said speed responsive mechanism to the clamping means for controlling the clamping means in accordance with the speed of the warper.

1,917,222. TREATMENT OF IRON SULPHIDE-BEARING MATERIAL. RAYMOND F. BACON, Bronxville, and HENRY T. HOTCHKISS, Jr., New Rochelle, N. Y.; said Hotchkiss, jr., assignor to said Bacon. Filed Feb. 25, 1930. Serial No. 431,134. 11 Claims. (Cl. 23—87.)



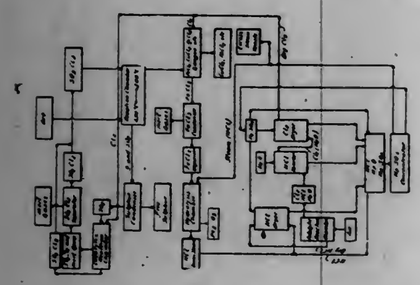
4. The method of treating iron sulphide-bearing material which comprises, passing said material and a chlorinating agent through zones of different temperatures which progressively increase as less chlorinated portions of the ore are presented.

1,917,223. TREATMENT OF IRON SULPHIDE-BEARING MATERIAL. RAYMOND F. BACON, Bronxville, and ISAAC BENCOWITZ, New York, N. Y.; said Bencowitz assignor to said Bacon. Filed Feb. 25, 1930. Serial No. 431,136. 9 Claims. (Cl. 23—200.)



1. The method of treating iron sulphide-bearing material which comprises contacting a chlorinating agent with the material, while maintaining more elevated temperatures as less chlorinated portions of said material come in contact with chlorinating agent to obtain a ferrous chloride concentrate, subjecting the ferrous chloride concentrate to the action of steam and air to produce hydrogen chloride, treating the hydrogen chloride to recover chlorine, and returning the chlorine thus recovered to the process.

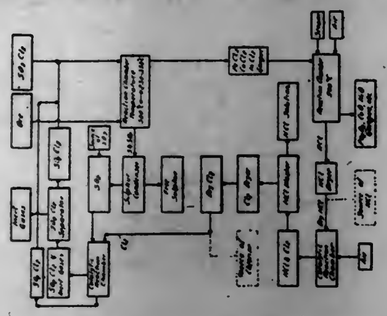
1,917,224. RECOVERY OF SULPHUR. RAYMOND F. BACON, Bronxville, and ISAAC BENCOWITZ, New York, N. Y.; said Bencowitz assignor to said Bacon. Filed Feb. 26, 1930. Serial No. 431,461. 2 Claims. (Cl. 23—224.)



1. The method of recovering sulphur from material containing iron sulphide which comprises, subjecting said material to the action of sulphuryl chloride to chlorinate the material and displace the sulphur from the sulphide in the presence of sulphur dioxide, separating the sulphur from the sulphur dioxide, and returning the sulphur dioxide to the process.

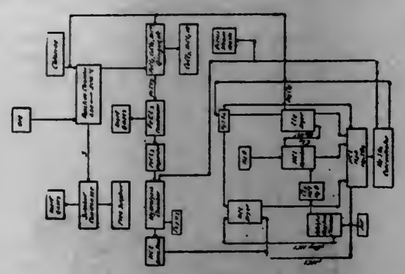
1,917,225. RECOVERY OF SULPHUR. RAYMOND F. BACON, Bronxville, and ROCCO FANELLI, New Rochelle, N. Y.; said Fanelli assignor to said Bacon. Filed Feb. 26, 1930. Serial No. 431,466. 6 Claims. (Cl. 23—224.)

1. The method of treating material containing iron sulphide which comprises subjecting the material to the action of sulphuryl chloride under such conditions that ferrous chloride and elemental sulphur are produced and the sulphur is vaporized, treating the ferrous chloride to recover chlorine, and returning the chlorine thus recovered to the process.



6. The method of treating iron sulphide-bearing material which comprises subjecting the material to the action of sulphuryl chloride under such conditions that ferrous chloride, sulphur dioxide and elemental sulphur are produced and the sulphur and sulphur dioxide are vaporized, collecting the sulphur dioxide, subjecting the ferrous chloride to the action of air and water vapor at an elevated temperature to produce hydrogen chloride, treating the hydrogen chloride to recover chlorine, and combining the chlorine thus recovered with the sulphur dioxide produced to regenerate sulphuryl chloride.

1,917,226. RECOVERY OF SULPHUR. RAYMOND F. BACON, Bronxville, and ISAAC BENCOWITZ, New York, N. Y.; said Bencowitz assignor to said Bacon. Filed Feb. 26, 1930. Serial No. 431,459. 10 Claims. (Cl. 23—224.)

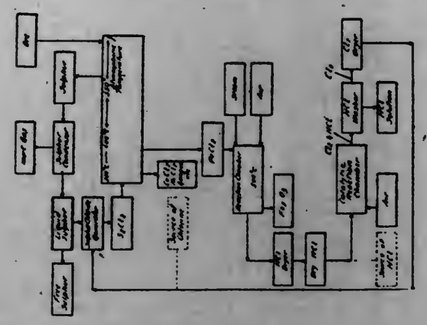


1. The method of treating material containing iron sulphide which comprises, subjecting the material to the action of chlorine under such conditions that ferrous chloride and elemental sulphur are produced and the sulphur is vaporized, subjecting the ferrous chloride to the action of chlorine to form ferric chloride, subjecting the ferric chloride to the action of water vapor to produce hydrogen chloride, treating the hydrogen chloride to recover chlorine and returning the chlorine thus recovered to the process.

1,917,227. RECOVERY OF SULPHUR. RAYMOND F. BACON, Bronxville, and ISAAC BENCOWITZ, New York, N. Y.; said Bencowitz assignor to said Bacon. Filed Feb. 26, 1930. Serial No. 431,460. 6 Claims. (Cl. 23—224.)

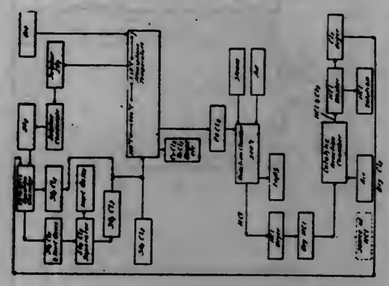
1. The method of treating iron sulphide-bearing material which comprises subjecting one portion of the material to the action of sulphur chloride to convert the iron to ferric chloride which is vaporized, contacting the ferric chloride with another portion of the material to obtain a ferrous chloride concentrate, collecting the elemental

sulphur produced in the reactions, subjecting the ferrous chloride concentrate to the action of steam and air to produce hydrogen chloride, treating the hydrogen chloride



to recover chlorine, combining the chlorine with a portion of the sulphur to reconstitute sulphur chloride, and returning the sulphur chloride thus recovered to the process.

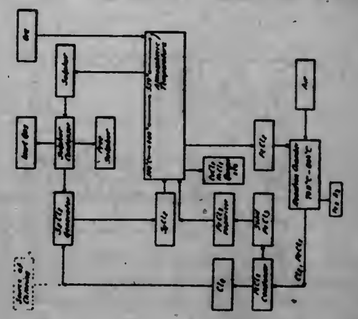
1,917,228. TREATMENT OF IRON SULPHIDE-BEARING MATERIAL. RAYMOND F. BACON, Bronxville, and ISAAC BENCOWITZ, New York, N. Y.; said Bencowitz assignor to said Bacon. Filed Feb. 26, 1930. Serial No. 431,462. 9 Claims. (Cl. 23—87.)



8. The method of treating iron sulphide-bearing material which comprises, contacting sulphuryl chloride with said material to chlorinate the same at temperatures which are progressively increased as less chlorinated portions of the iron sulphide-bearing material come in contact with chlorinating agent.

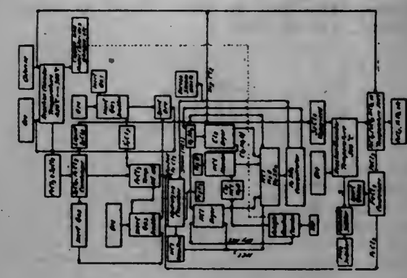
1,917,229. TREATMENT OF IRON SULPHIDE-BEARING MATERIAL. RAYMOND F. BACON, Bronxville, and ROCCO FANELLI, New Rochelle, N. Y.; said Fanelli assignor to said Bacon. Filed Feb. 26, 1930. Serial No. 431,463. 10 Claims. (Cl. 23—200.)

1. The method of treating iron sulphide-bearing material which comprises subjecting the material in a reaction chamber to the action of a chloridising agent to produce ferrous chloride in the chamber, subjecting said ferrous chloride to the action of additional chloridising agent in said chamber to convert the ferrous chloride to ferric chloride, vaporizing the ferric chloride, contacting the ferric chloride so produced with said iron sulphide-bearing material to produce a ferrous chloride concentrate, subjecting the ferrous chloride concentrate to the action of air at an elevated temperature to produce chlorine and



ferric chloride, and utilizing the chlorine and ferric chloride thus produced to treat additional iron sulphide-bearing material.

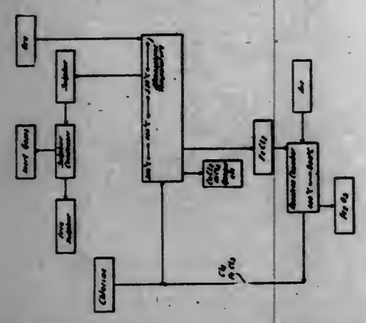
1,917,230. RECOVERY OF SULPHUR. RAYMOND F. BACON, Bronxville, and ROCCO FANELLI, New Rochelle, N. Y.; said Fanelli assignor to said Bacon. Filed Feb. 26, 1930. Serial No. 431,464. 7 Claims. (Cl. 23—226.)



1. The method of treating iron sulphide-bearing material which comprises subjecting a quantity of the material to the action of chlorine in sufficient amount and a suitable temperature to form vapors of ferric chloride and sulphur chloride, collecting and separating the ferric chloride and sulphur chloride, and utilizing the sulphur chloride to treat an additional quantity of iron sulphide-bearing material.

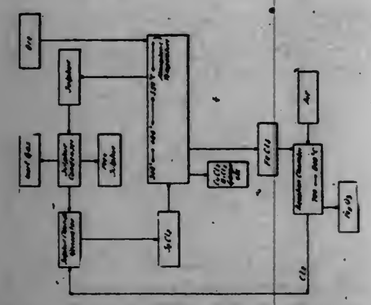
7. The method of treating iron sulphide-bearing material which comprises subjecting a quantity of the material to the action of chlorine to form and vaporise ferric chloride and sulphur chloride, collecting and separating the ferric chloride and sulphur chloride, subjecting an additional quantity of the iron sulphide-bearing material to the action of the sulphur chloride to produce ferrous chloride and elemental sulphur vapor, subjecting the ferrous chloride to the action of chlorine to produce ferric chloride, combining the ferric chloride thus produced with the ferric chloride produced during the treatment of iron sulphide-bearing material with chlorine, subjecting the combined ferric chloride product to the action of water vapor to produce hydrogen chloride, subjecting the hydrogen chloride to the action of air in the presence of a catalyst to recover chlorine, treating the ferrous chloride with a portion of the recovered chlorine to form ferric chloride, and chlorinating additional iron sulphide-bearing material with the remainder of the recovered chlorine.

1,917,231. TREATMENT OF IRON SULPHIDE-BEARING MATERIAL. RAYMOND F. BACON, Bronxville, and ROCCO FANELLI, New Rochelle, N. Y.; said Fanelli assignor to said Bacon. Filed Feb. 26, 1930. Serial No. 431,465. 10 Claims. (Cl. 23—28.)



8. The method of treating iron sulphide-bearing material which comprises confining the material in a reaction chamber, maintaining zones of progressively increasing temperatures within the chamber, and introducing chlorine and ferric chloride into a relatively low-temperature zone.

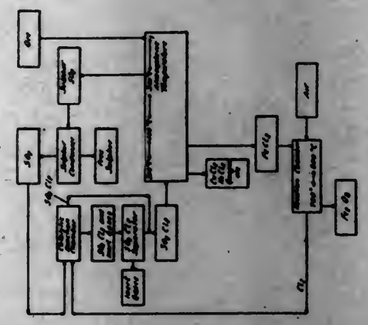
1,917,232. RECOVERY OF SULPHUR. RAYMOND F. BACON, Bronxville, and HENRY T. HOTCHKISS, Jr., New Rochelle, N. Y.; said Hotchkiss, jr., assignor to said Bacon. Filed Feb. 26, 1930. Serial No. 431,467. 6 Claims. (Cl. 23—224.)



1. The method of treating iron sulphide-bearing material which comprises, bringing sulphur chloride in contact with said material at temperatures which progressively increase as less chlorinated portions of the material come in contact with chlorinating agent, said temperatures increasing from a point above the boiling temperature of ferric chloride to a point further above the boiling temperature of ferric chloride but below the boiling tempeature of non-ferrous metal chlorides in the material.

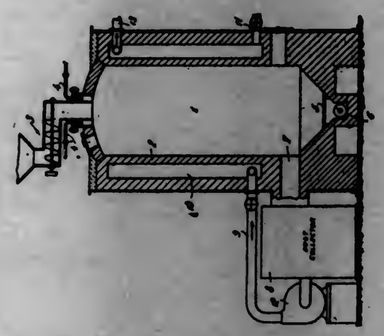
6. The method of treating iron sulphide-bearing material which comprises, passing said material through a reaction chamber in one direction, passing sulphur chloride through said chamber in the opposite direction, maintaining a temperature of not less than approximately 300° C. in the region of primary contact of said sulphur chloride with said material, whereby the iron in the material is converted to ferric chloride and volatilized, passing the mixture of sulphur chloride and ferric chloride in countercurrent flow with said material at a progressively increasing temperature whereby said material is chlorinated by the action of said sulphur chloride and ferric chloride, and limiting the maximum temperature to not more than approximately 550° C.

1,917,233. TREATMENT OF IRON SULPHIDE-BEARING MATERIAL. RAYMOND F. BACON, Bronxville, and HENRY T. HOTCHKISS, Jr., New Rochelle, N. Y.; said Hotchkiss, jr., assignor to said Bacon. Filed Feb. 26, 1930. Serial No. 431,472. 8 Claims. (Cl. 23—97.)



8. In a process for treating iron sulphide-bearing material involving the treatment of the material with a chlorinating agent, the step which comprises contacting the material with sulphuryl chloride.

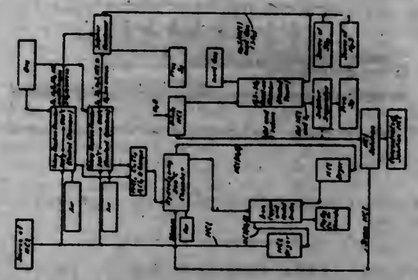
1,917,234. RECOVERY OF SULPHUR. RAYMOND F. BACON, Bronxville, and ISAAC BENCOWITZ, New York, N. Y.; said Bencowitz assignor to said Bacon. Filed July 29, 1930. Serial No. 471,587. 11 Claims. (Cl. 23—226.)



1. A process of producing elemental sulphur which comprises burning combustible sulphurous material with combustion-supporting material to produce sulphur dioxide, mixing with said sulphur dioxide a reagent capable of reducing it to elemental sulphur, and passing said mixture in non-contacting heat-exchanging relationship with said combustible and combustion-supporting materials during the process of combustion.

11. In a process of producing elemental sulphur from pyrites wherein the sulphur in the pyrites is burned to sulphur dioxide which is subsequently reacted with an agent for reducing it to elemental sulphur, the steps which comprise, passing the sulphur dioxide gases from the burning operation, in non-contacting heat-exchanging relationship with the hot components of the pyrites burning operation, at that stage in the burning operation where the pyrites is in a state conducive to scar formation, said gases being at a temperature lower than that of the burning operation in said scar forming stage, and then contacting the heated sulphur dioxide gases with the reducing agent under conditions to produce elemental sulphur.

1,917,235. RECOVERY OF SULPHUR. RAYMOND F. BACON, Bronxville, and ISAAC BENCOWITZ, New York, N. Y.; said Bencowitz assignor to said Bacon. Filed Mar. 6, 1930. Serial No. 433,601. 8 Claims. (Cl. 23—226.)



1. The method of treating pyrites-bearing material which comprises subjecting the material to the joint actions of hydrogen chloride to form ferrous chloride and hydrogen sulphide, and an oxidising agent which will react with the sulphur to form sulphur dioxide reacting the hydrogen sulphide and sulphur dioxide to produce elemental sulphur, treating the ferrous chloride to regenerate hydrogen chloride, and returning the regenerated hydrogen chloride to the process.

8. The method of treating ore containing pyrites and sulphides of copper and nickel which comprises subjecting the ore to the joint actions of hydrogen chloride to form ferrous chloride, copper chloride, nickel chloride and hydrogen sulphide, and an oxidising agent which will react with the sulphur to form sulphur dioxide, treating the chlorides of iron, copper and nickel to regenerate hydrogen chloride and produce oxides of iron,copper and nickel, utilizing a portion of the regenerated hydrogen chloride to convert the copper and nickel oxides to copper and nickel chlorides, leaching the mixture of copper and nickel chlorides and iron oxide with water to extract said chlorides, and utilizing the remainder of the regenerated hydrogen chloride to treat additional ore.

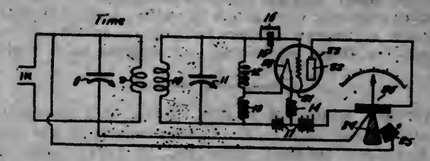
1,917,236. TENNIS RACKET AND OTHER PLAY IMPLEMENT. ROLAND BLOOMSTRAND, Chicago, Ill. Filed Mar. 6, 1931. Serial No. 520,552. 6 Claims. (Cl. 273—73.)



1. An educational device for tennis racket handles and the like, comprising a piece of fabric provided with adhesive adapted to be applied to a conventional tennis racket handle, said fabric having a pair of separate markings of distinctive appearance for indicating the proper grip for a forehand stroke and a backhand stroke, and said markings comprising linear indications of the direction of the thumb and the forefinger for each grip, said linear indications for each grip intersecting at the apex between the thumb and the forefinger.

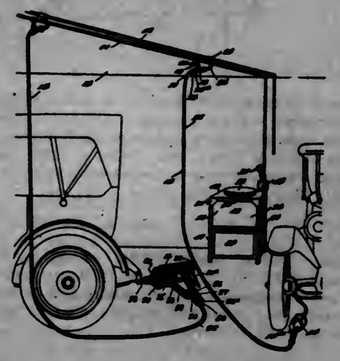
1,917,237. CAPACITY CONTROLLED AMPLIFIER. CONSTANTIN D. BARBULESCO and PAUL S. EDWARDS, Dayton, Ohio. Filed May 14, 1929. Serial No. 363,019. 7 Claims. (Cl. 179—171.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

1. In a system of amplification, a self-modulating high frequency oscillator, an external oscillating circuit coupled to said oscillator, a variable condenser associated with said external oscillating circuit to vary its natural frequency and an auxiliary variable condenser associated



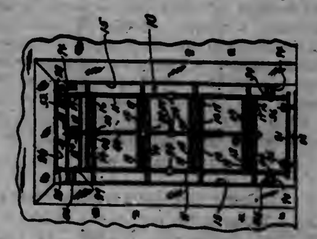
with said external oscillating circuit to slightly vary its frequency and hence to vary the amount of current flowing in the plate circuit of the oscillator.

1,917,238. LUBRICATING SYSTEM. CLYDE G. BUTLER, Cincinnati, Ohio, assignor, by mesne assignments, to Russell J. Gray, Minneapolis, Minn. Filed Oct. 25, 1929. Serial No. 402,514. 14 Claims. (Cl. 221—47.1.)



1. In a device of the class described, a grease pumping unit, a main grease supply header extending therefrom, a main air supply header, individual grease supply conduits connected to said grease header, a T for each grease supply conduit, said T having a relatively large passageway between two of its openings, the ends of said passageway respectively connected to the grease header and the individual grease conduits, and an individual air supply conduit extending from the air header through each individual grease conduit, said individual air supply conduits entering the small opening of the T and loosely traversing the large passageway of the T and the respective grease conduit.

1,917,239. TEMPLATE. GEORGE H. CHESTER, Richmond Heights, Mo. Filed June 16, 1930. Serial No. 461,389. 14 Claims. (Cl. 33—194.)



4. A template of the class described comprising a frame, a plurality of marginal members movable relatively to said frame and independently of each other, transverse

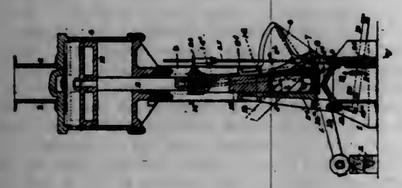
members secured to said marginal members and projecting inwardly and having slidable bearings in said frame to provide supports for said marginal members, coiled springs for yieldingly moving said marginal members into expanded positions, locking bars manually operable for securing said transverse members relatively to said frame, and means for fixedly positioning said template on to a door.

1,917,240. STRIKER PLATE. LOUIS K. CHURCH, Seattle, Wash.; Roberta H. Church executrix of said Louis K. Church, deceased. Filed May 11, 1931. Serial No. 536,514. 6 Claims. (Cl. 292—340.)



1. In a striker plate having a bolt-retaining ledge, freely revoluble balls projecting above the surface of the ledge, to engage the bolt and to prevent contact between the bolt and said ledge, and yieldable means permitting limited movement of the balls under pressure of the bolt towards and from the face of the ledge.

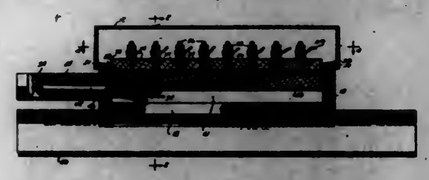
1,917,241. PRESS MECHANISM. RICHARD W. DINEL, Margate City, N. J., assignor to Southwark Foundry & Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 6, 1928. Serial No. 317,552. 9 Claims. (Cl. 100—19.)



1. In press mechanism, the combination of a frame, an anvil disposed in the lower part of said frame and forming part of a compression chamber, a movable member pivotally mounted in said frame and forming the front wall and bottom of said compression chamber, weighted levers for holding said pivotally mounted member in the closed position, a plunger operatively connected to said weighted levers for acting upon material disposed in said compression chamber, a piston for actuating said plunger, means for raising and lowering said piston including a valve, and a foot lever for actuating said valve; said plunger when lowering under pressure permitting the weighted levers to close the compression chamber.

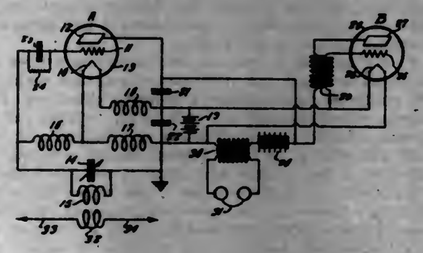
1,917,242. SLEEVE TERMINAL BOX FOR ELECTRIC CABLES. WILLIAM W. EMMONS, Newark, N. J. Filed Dec. 5, 1929. Serial No. 411,795. 16 Claims. (Cl. 247—7.)

1. In a sleeve terminal box a chambered casing, a tray of substantial depth and comprising bottom and side walls fitted within the casing and secured therein about the edges of the tray and chamber, and lead-out wires and



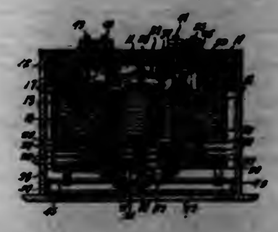
connections permanently sealed in the recess provided in said tray.

1,917,243. ULTRA SENSITIVE RELAY. PAUL S. EDWARDS, Washington, D. C., and CONSTANTIN D. BARBULESCO, Dayton, Ohio. Filed Sept. 18, 1929. Serial No. 392,468. 9 Claims. (Cl. 250—36.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



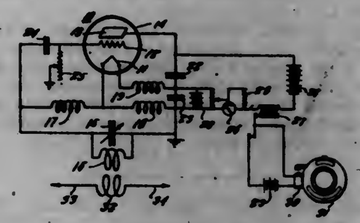
1. A method comprising generating radio frequency oscillations modulated at a predetermined rate, varying the rate of modulation, generating audio oscillations of fixed frequency, and measuring the difference between the modulations of the radio frequency oscillations and the audio frequency oscillations.

1,917,244. ELECTRICAL INSTRUMENT. PAUL S. EDWARDS, Fort Knox, Ky., and CONSTANTIN D. BARBULESCO, Oakwood, Ohio. Filed Sept. 19, 1929. Serial No. 393,811. 4 Claims. (Cl. 177—351.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



1. An electrical instrument comprising a base, a magnet having diametrically disposed poles provided with arcuate faces, studs for securing said magnet to the base, a core positioned concentric to the arcuate faces of the magnet, a frame mounted for rotation between the arcuate faces of the poles and the core, a coil wound upon the frame adapted to be affected by an electrical change, a pointer movable with the frame to indicate the electrical change, a scale cooperating with the pointer, a condenser comprising rotor plates movable with the frame and stator plates carried by said studs cooperating with the rotor plates to vary the capacitance corresponding to the value of electrical change.

1,917,245. PHOTOGRAPHING. PAUL S. EDWARDS, Fort Meade, Md., and CONSTANTIN D. BARBULESCO, Dayton, Ohio. Filed Oct. 8, 1929. Serial No. 398,257. 12 Claims. (Cl. 95—53.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



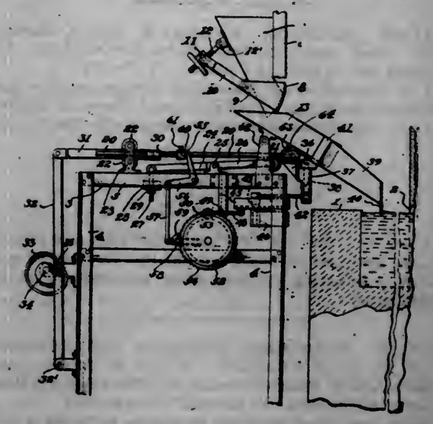
1. In combination with a camera, a self-modulated radio frequency oscillator, an antenna connected to the input circuit thereof and means for operating the camera connected in the plate circuit of the oscillator.

1,917,246. PRODUCTION OF ILLUSORY EFFECTS. THOMAS H. FARIS, Washington, D. C. Filed July 9, 1930. Serial No. 466,801. 19 Claims. (Cl. 88—24.)



8. In the production of illusory effects, a succession of screen members arranged in front to rear succession and each having openings for the passage of light rays, said members forming a group adapted to provide an audience image plane in presence of still or moving picture projection by a projecting apparatus serving as a source of portrayal on such plane, and means extending relatively angular to and in rear of the screen group for producing and directing ray emanations having their source in the projector rays and corresponding in tonal characteristics with those from the projecting apparatus but of less intensity to cause such portrayal to present simulated stereoscopic effects on such plane, said means being controlled as to acitivity by the light rays projected from such source of portrayal, said means including a plurality of pairs of reflecting members, one of the members of a pair having its surface in front to rear direction of the member extending angular to a line of incidence, the second member of the pair extending angular to the first member, the angularity of the two members being such as to permit access of source light rays to the reflecting surface of the second member only by reflection from the first member, and a screen element overlying the reflecting surface of the second member.

1,917,247. APPARATUS FOR FEEDING BATCH MIXTURES TO FURNACES. ROBERT GOOD, Washington, Pa., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va., a Corporation of West Virginia. Filed July 1, 1931. Serial No. 548,217. 19 Claims. (Cl. 49—63.)



1. A batch feeder for glass furnaces, including means for spreading the batch in a thin layer, and means operated by the first-mentioned means to control the feed of batch.

1,917,248. PHENOL-FURFURAL RESIN AND METHOD OF MAKING THE SAME. NORMAN D. HANSON, Bloomfield, N. J., assignor to Bakelite Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 22, 1927. Serial No. 242,018. 29 Claims. (Cl. 260—3.)

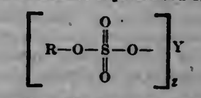
1. The hereindescribed resinous condensation product, comprising a reactive phenol-furfural resin having incorporated therewith an accelerator including a basic substance which will neither combine with nor yield aldehydic groups and a methylene-yielding body.

1,917,249. EMULSION. BENJAMIN R. HARRIS, Chicago, Ill. Filed Aug. 15, 1930, Serial No. 475,623. Renewed Oct. 5, 1932. 2 Claims. (Cl. 99—13.)

2. A non-spattering margarine emulsion comprising an oleaginous phase and an aqueous phase, and having included therein a proportion of a derivative of sucrose having balanced lipophile and hydrophile groups.

1,917,250. EMULSION. BENJAMIN R. HARRIS, Chicago, Ill. Filed Aug. 15, 1930, Serial No. 475,622. Renewed Oct. 5, 1932. 4 Claims. (Cl. 99—13.)

4. A non-spattering margarine containing an oleaginous phase and an aqueous phase and having included therein a non-nitrogenous substance represented by the formula



in which "R" is a lipophile residue having more than 18 carbon atoms balanced by the sulphate radical, "S" is sulphur, "O" represents oxygen, "Y" represents innocuous cations, and "z" is a whole number.

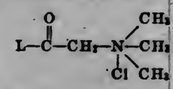
1,917,251. EMULSION. BENJAMIN R. HARRIS, Chicago, Ill. Filed Aug. 21, 1930, Serial No. 476,935. Renewed Oct. 5, 1932. 2 Claims. (Cl. 99—13.)

1. A non-spattering margarine, having an oleaginous phase and an aqueous phase, and having included therein

a proportion of a phosphoric acid ester of a higher molecular weight alcohol having eighteen carbon atoms or more in its radical, said compound having balanced hydrophile and lipophile groups.

1,917,252. EMULSION. BENJAMIN R. HARRIS, Chicago, Ill. Filed Sept. 11, 1930, Serial No. 481,348. Renewed Oct. 5, 1932. 4 Claims. (Cl. 99—13.)

4. A non-spattering margarine having aqueous and oleaginous media, and having included therein a proportion of a nitrogenous substance represented by the formula



wherein "C", "O", "H", "N" and "Cl" represent carbon, oxygen, hydrogen, nitrogen and chlorine respectively and "L" is a balancing lipophile group with more than 18 carbon atoms.

1,917,253. MARGARINE EMULSION AND PRODUCT TO BE USED THEREIN. ALBERT K. EPSTEIN and BENJAMIN R. HARRIS, Chicago, Ill. Filed Oct. 31, 1930. Serial No. 492,612. 27 Claims. (Cl. 99—13.)

16. A margarine improving substance including a salt of monostearine sulphoacetate and a monostearic acid ester of glycerol, substantially uniformly distributed in an aqueous medium.

1,917,254. MARGARINE AND PROCESS FOR PRODUCING THE SAME. BENJAMIN R. HARRIS, Chicago, Ill. Filed Aug. 9, 1930. Serial No. 474,308. 14 Claims. (Cl. 99—13.)

6. As a new article of manufacture, a margarine comprising oleaginous and aqueous constituents and having included therein as an addition substance a relatively small amount of monostearyl glycerol.

1,917,255. EMULSION. BENJAMIN R. HARRIS, Chicago, Ill. Filed Sept. 11, 1930. Serial No. 481,349. 7 Claims. (Cl. 99—13.)

3. A non-spattering margarine including oleaginous material and aqueous material and having included therein a proportion of a carboxylic ester of sulphoacetic acid, having balanced lipophile and hydrophile groups wherein the lipophile group has more than 18 carbon atoms.

1,917,256. EMULSION. BENJAMIN R. HARRIS, Chicago, Ill. Filed Sept. 30, 1931. Serial No. 566,156. 25 Claims. (Cl. 99—13.)

7. A non-spattering margarine containing an oleaginous phase and an aqueous phase and having included therein calcium palmityl sulphate in such proportions as to reduce spattering during frying.

21. An emulsion having an oleaginous phase and an aqueous phase and having included therein a substance of the class consisting of sulphonated monostearine and sulphonated monostearine sodium salt.

1,917,257. EMULSION. BENJAMIN R. HARRIS, Chicago, Ill. Filed Sept. 30, 1931. Serial No. 566,157. 26 Claims. (Cl. 99—13.)

12. An improved non-spattering margarine emulsion including an oleaginous phase, an aqueous phase, and approximately one-half percent of monostearyl glucose.

26. An emulsion comprising an oleaginous phase and an aqueous phase, and having included therein a proportion of a derivative of sucrose having balanced lipophile and hydrophile groups.

1,917,258. EMULSION. BENJAMIN R. HARRIS, Chicago, Ill. Filed Sept. 30, 1931. Serial No. 566,158. 19 Claims. (Cl. 99—13.)

8. A non-spattering margarine having an oleaginous phase and an aqueous phase, and having included therein palmityl betaine chloride.

17. An emulsion comprising an oleaginous phase, an aqueous phase, and a proportion of stearyl glutamic acid.

1,917,259. EMULSION. BENJAMIN R. HARRIS, Chicago, Ill. Filed Sept. 30, 1931. Serial No. 566,159. 31 Claims. (Cl. 99—13.)

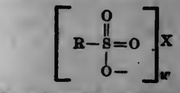
11. A non-spattering margarine having an oleaginous phase and an aqueous phase, and having a proportion of a non-nitrogenous phosphoric acid ester of monostearyl glycerol, said phosphoric acid ester having balanced lipophile and hydrophile groups.

23. An emulsion including an oleaginous phase, an aqueous phase, and a proportion of a non-nitrogenous compound in the form of a phosphoric acid ester of a derivative of glycerine of high molecular weight, said compound having balanced lipophile and hydrophile groups, the lipophile group being a non-aromatic relatively high molecular weight radical.

1,917,260. EMULSION. BENJAMIN R. HARRIS, Chicago, Ill. Filed Sept. 30, 1931. Serial No. 566,160. 29 Claims. (Cl. 99—13.)

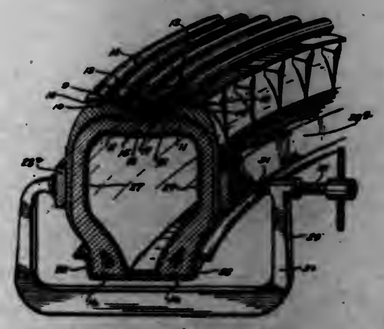
6. A non-spattering margarine including oleaginous material and aqueous material, and having included therein a proportion of a salt of monostearine sulphoacetate.

24. An improved emulsion including oleaginous material, aqueous material, and a proportion of an improving agent comprising a chemical substance characterized by a coaction in its molecule of balanced lipophile and hydrophile groups and represented by the structure



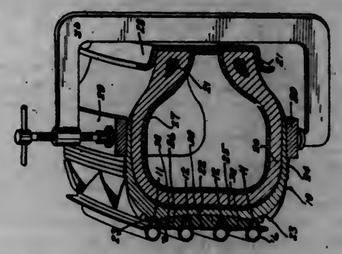
in which "R" is a lipophile radical comprising an ester group and having more than 18 carbon atoms, "S" represents sulphur linked to carbon, "O" stands for oxygen, "X" stands for innocuous cations, and "w" is a small whole number.

1,917,261. METHOD OF RETREADING TIRE CASINGS. PAUL E. HAWKINSON, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a Corporation of Minnesota. Filed May 14, 1931. Serial No. 537,324. 8 Claims. (Cl. 18—18.)



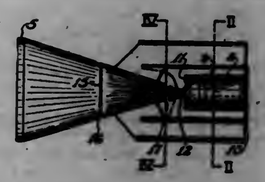
1. The method of treading tire casings, which comprises spreading the side walls of the casing laterally at circumferentially spaced points to circumferentially contract the crown portion of the casing, then placing the circumferentially contracted casing within a matrix having an inside circumference less than that of the normal circumference of the casing, permitting expansion of the casing against the matrix by relieving the same from lateral spreading action, applying circumferential expanding pressure to the casing to expand the same under pressure against the matrix, and applying heat to the matrix.

1,917,262. APPARATUS FOR RETREADING TIRE CASINGS. PAUL E. HAWKINSON, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Dec. 20, 1932. Serial No. 648,132. 12 Claims. (Cl. 18—18.)



5. A tire treading device consisting of an integral cylinder-like mold having continuous tread material confining portions projecting inwardly from marginal portions of said mold, said portions being of such construction and extent as to make circumferential sealing contact with the shoulders only of a tire to support the mold over the tire crown and leave the side wall portions thereof exposed, means to vent the mold between the tread confining portions thereof, and heating means extending circumferentially of said mold between the marginal portions thereof.

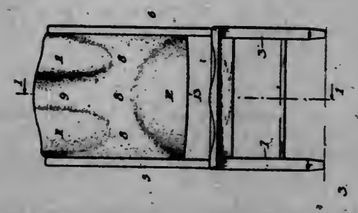
1,917,263. AERIAL BOMB. GALE H. HENDRICK, Glenshaw, Pa. Filed Aug. 29, 1932. Serial No. 630,771. 5 Claims. (Cl. 102—2.)



5. An aerial bomb for target practice comprising a hollow body adapted to be charged with a liquid, a tail cone secured to one end thereof, vanes on said tail piece, means in said tail piece for mounting a fragile container, and a baffle wall disposed between said body and container to prevent the liquid charge of the body from covering said container upon impact of the bomb.

1,917,264. CHAIR. JOHN HARVEY KELLOGG, Battle Creek, Mich. Filed Jan. 17, 1931. Serial No. 509,316. 4 Claims. (Cl. 155—191.)

3. A chair back provided with a centrally positioned surface of gentle curvature forwardly convexed about an upwardly extending axis arranged to give support directly to only that portion of the occupant's back which lies immediately adjacent his dorsal vertebræ, and concave shoulder supporting surfaces on either side of said central surface merging therewith and curved forwardly at their lateral margins.



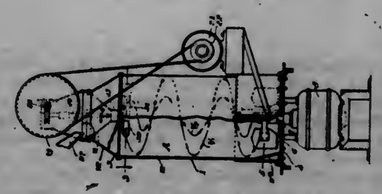
1,917,265. AMMONIACAL COMPOUND FOR USE IN THE TEXTILE INDUSTRY. FRANZ HOELKESKAMP, Wuppertal, Barmen, Germany, assignor to American Bemberg Corporation, New York, N. Y., a Corporation of Delaware. Filed May 31, 1932, Serial No. 614,621, and in Germany June 3, 1931. 10 Claims. (Cl. 23—51.)

1. In the production of metallic ammonium oxide compounds, the step of treating a metallic ammonium oxide with an alkali salt.

3. A weighting compound for textiles comprising an ammoniacal metallic aluminum oxide.

9. In the production of a weighting and waterproofing material for textiles, the steps of dissolving a metallic salt in ammonia, and adding thereto an aluminate solution.

1,917,266. METHOD AND APPARATUS FOR DISPERSING DIVIDED SOLID MATERIAL IN GAS. MARCEL A. LISSMAN, Alhambra, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed July 7, 1931. Serial No. 549,152. 10 Claims. (Cl. 209—144.)



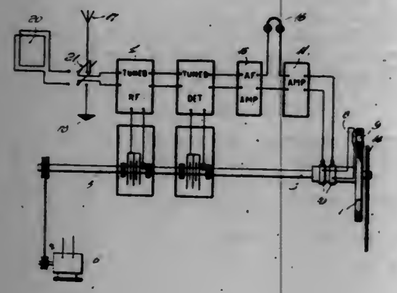
1. The method of dispersing finely divided solid material in gas which comprises maintaining a vortional gas movement within an inclosed chamber, repeatedly recirculating the major portion of the gas in such vortical movement in such manner that the gas moves repeatedly from one end of the chamber toward the other end thereof and back again, delivering finely divided solid material into the vortical gas movement at one point in the path of circulation thereof, removing a portion of the gas containing dispersed solid material in suspension from the vortical movement at another point in said path, and introducing a corresponding portion of gas to said vortical movement at a point removed from said last named point.

1,917,267. PROCESS OF MAKING AUTOMOBILE BUFFERS. GEORGE ALBERT LYON, Allenhurst, N. J. Filed Oct. 23, 1924, Serial No. 745,432. Renewed Oct. 25, 1930. 27 Claims. (Cl. 29—152.)



17. The process of making a double-bar bumper which comprises bending a relatively thick narrow strip of steel into the form of a ring having an annular length substantially the same as the length of the strip, welding the ends of the strip together, and elongating the ring.

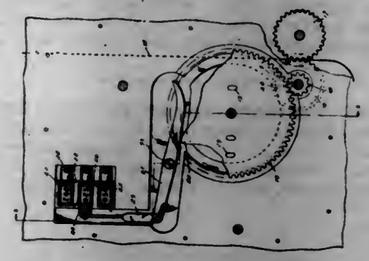
1,917,268. MULTIPLE FREQUENCY RECEIVING SYSTEM. CARLOS B. MIRICK, Washington, D. C., assignor to National Electrical Supply Company, Washington, D. C., a Corporation of Virginia. Filed Apr. 11, 1930. Serial No. 443,581. 7 Claims. (Cl. 250—30.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



1. In a multiple frequency receiving system, a receiving apparatus, a visual indicating device connected to said apparatus, means for tuning said receiving apparatus periodically through a predetermined range of frequencies, means mechanically connected with said tuning means for synchronously rotating said visual indicating device adjacent a fixed calibrated scale, said visual indicating device being energized at points along said fixed scale corresponding to the transmission frequency indicated by said scale, and means controlled by the operation of the receiving apparatus for establishing a permanent record of the position of said indicating device with respect to said scale at the time interval when said indicating device is energized.

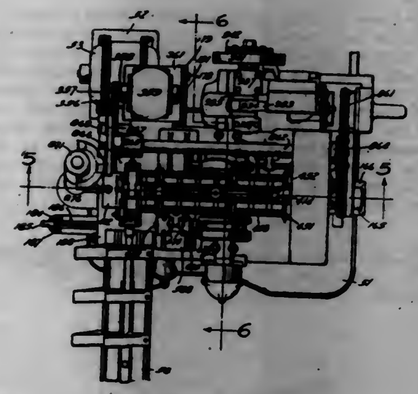
1,917,269. ATTACHMENT FOR REPRODUCING MACHINES. GEORGE F. MONTGOMERY, Washington, D. C. Filed Mar. 6, 1930. Serial No. 433,702. 2 Claims. (Cl. 235—91.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

1. An attachment for reproducing machines including a counter, a train of pivotally connected counter operating arms, means operated by the reproducing machine for actuating one of the arms at predetermined intervals to actuate the counter, means for disabling the counter



operating arms, said means including a cam surfaced member, a pivoted arm engaging said member and the said actuated arm, and means for operating said member.

1,917,270. MACHINE FOR FORMING METAL BANDS. JOHN F. PETERS, Leonia, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 27, 1930. Serial No. 484,862. 10 Claims. (Cl. 113—1.)

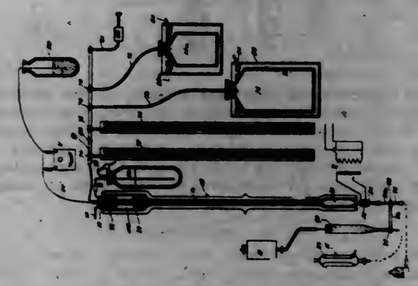


1. In a machine for forming metal bands, the combination of a forming mandrel, means for arranging a metal strip upon said mandrel, means for forming hooks on the ends of said strip while on said mandrel, means for interengaging said hooked ends and forming a closed seam therefrom to provide a continuous band, mechanism for bending and curling the two continuous and opposite edges thereof, and power mechanism for cooperating said elements in timed relation.

1,917,271. METHOD OF FORMING COATINGS OF METAL AND PRODUCT THEREOF. JAMES G. POTTER, Cambridge, Mass. Filed Jan. 28, 1932. Serial No. 589,541. 3 Claims. (Cl. 91—70.1.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

1. A method of electrodepositing metal, comprising the steps of disposing an object between electrodes in an air tight chamber, one of which electrodes is made of the metal to be deposited, exposing in said chamber a body of mercury having a free surface evacuating said chamber until there is substantially no gas in said chamber except mercury vapor, releasing one or more monatomic gases in said chamber to raise the pressure in said chamber to a magnitude at which the desired discharge will pass, and passing a discharge between said electrodes until the requisite thickness of metal has been deposited on said object.

1,917,272. ANALYTICAL FRACTIONATING COLUMN. WALTER J. PODBIELNIAK, Tulsa, Okla. Filed Aug. 15, 1930. Serial No. 475,585. 17 Claims. (Cl. 202—160.)

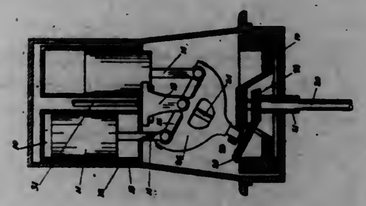


1. Apparatus for precise analytical fractionation comprising an elongated distilling column, means for supplying vapors to the lower portion thereof, means for cooling the upper portion thereof, and an evacuated insulating jacket surrounding the column and having its inner wall spaced therefrom to provide an air space between the column and the jacket.

1,917,273. METHOD FOR MANUFACTURING MARGARINE. MARVIN C. REYNOLDS, Chicago, Ill. Filed Apr. 9, 1931. Serial No. 528,984. 5 Claims. (Cl. 99—13.)

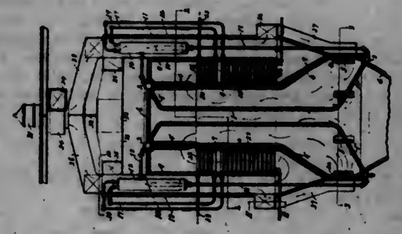
4. A method of producing margarine which comprises preparing a mixture of oils and fats suitable for use as the oleaginous constituent of the margarine, said mixture being solid at ordinary room temperature, treating the mixture at slightly elevated temperature to render the same plastic, introducing the mixture into a suitable container with a relatively smaller amount of an aqueous material and a small amount of a mixture of an anti-spattering compound having balanced lipophile and hydrophile groups, and a hydrophilic lipin having lipophile and hydrophile groups in an insufficient state of balance to affect the spattering behavior of the margarine, and kneading said materials together to form a final plastic margarine emulsion in which the oleaginous constituent is in the continuous phase.

1,917,274. CRANKLESS ENGINE. GEORGE M. SHOBER, Ottumwa, Iowa. Filed Nov. 12, 1931. Serial No. 574,541. 5 Claims. (Cl. 74—14.)



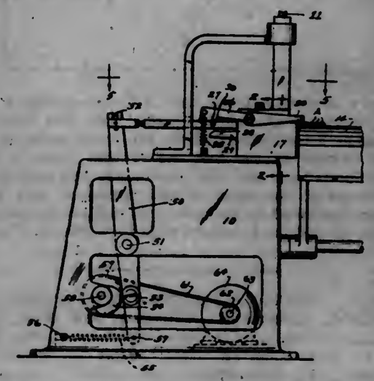
1. Means for converting reciprocatory motion into rotary motion including a supporting frame, a reciprocating member supported in said frame, a shaft journaled in said frame, said shaft being parallel to the direction of movement of said reciprocating member, a flywheel secured to said shaft, a rocking spider pivotally secured to said frame and to said reciprocating member, and a connecting member pivotally secured at one of its extremities to said spider at right angles to the pivotal connection between the frame and the spider and having an eccentric bearing at its other extremity with said flywheel.

1,917,275. BOILER. ALLEN M. ROSSMAN and HERMAN C. HEATON, Chicago, Ill. Filed Feb. 24, 1927, Serial No. 170,488. Renewed Mar. 13, 1931. 8 Claims. (Cl. 122—235.)



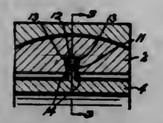
1. In a boiler, an inner row of tubes surrounding a central space, an outer row of tubes surrounding said first named row and spaced therefrom different distances at different points, a header to which one end of tubes in both rows are connected and a different header to which the other ends of said tubes are connected, and means for introducing fuel between said rows of tubes and guiding it between said rows.

1,917,276. PACKING MECHANISM FOR TYPESETTING MACHINES. AUGUST L. SCHULTZ, Cleveland, Ohio, assignor to Multigraph Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 24, 1931. Serial No. 558,971. 11 Claims. (Cl. 276—15.)



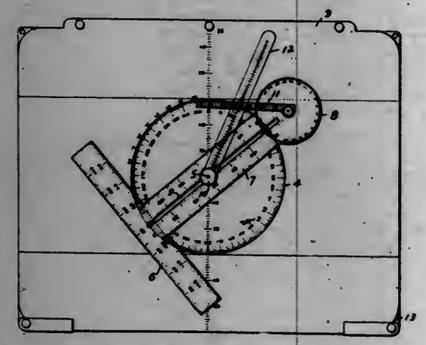
1. In the combination, with a channel for the descent of type, of means for laterally ejecting type from the channel, a laterally extending channel through which the type are shoved by ejecting means, means arranged to enter the first-named channel to restrain the downward movement of type therein, said restraining means being operated in synchronism with the ejecting means to permit the type to descend one at a time on top of the ejecting means, and means to withdraw the ejecting means and cause the type resting thereon to drop into the last-named channel, whereby the next movement of the ejecting means will cause the type to be progressed along such channel.

1,917,277. BEARING. AUGUST GUNNAR FERDINAND WALLGREN and CARL GUSTAF JANSON, Stockholm, Sweden, assignors to Aktiebolaget Nomy, Stockholm, Sweden, a Corporation of Sweden. Filed Apr. 23, 1930, Serial No. 446,469, and in Sweden May 3, 1929. 28 Claims. (Cl. 308—73.)



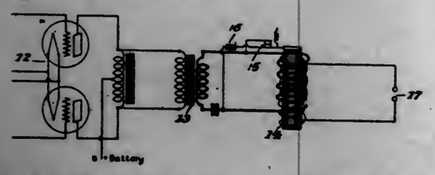
1. A bearing of the radial type comprising an inner member, an outer member, a plurality of bearing blocks having operative positions radially between said members, said blocks having undercut recesses therein, and projections on said inner member bifurcated to form radially extending tongues projecting into said recesses, said tongues being adapted to engage the side walls of the recesses to limit free radial movement of said blocks outwardly from said inner member.

1,917,278. LINE OF POSITION AND WIND DRIFT PLOTTER. PHILIP VAN HORN WEEMS, U. S. Navy. Filed Feb. 8, 1932. Serial No. 591 659. 2 Claims. (Cl. 33—76.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



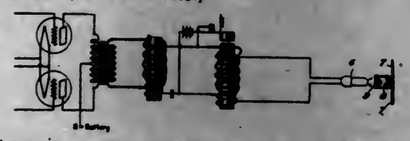
2. In a navigation instrument, a T-scale having a head and a longitudinally slotted blade, both said head and said blade being calibrated to the same scale, a protractor carried by the free end of said blade, a wind arm calibrated to the said same scale and having one end pivoted at the center of said protractor, and a second arm calibrated to the said scale and adapted to have one end pivoted on a member slidable in the slot in said blade.

1,917,279. SOUND RECORDING AND PRODUCING METHOD. STEWART C. WHITMAN, New York, N. Y., assignor of one-half to George Shackelford, New York, N. Y. Filed June 30, 1930. Serial No. 465,024. 2 Claims. (Cl. 179—100.3.)



1. An apparatus for producing a highly actinic light for recording purposes comprising a high frequency mechanical buzzer, inductively coupled means for stepping up the high frequency voltage impulses across the solenoid of the buzzer, unshielded discharge electrode means connected in series therewith, and means for modulating the current in the buzzer circuit at audible frequencies.

1,917,280. METHOD FOR RECORDING SOUND EMPLOYING A SEPARATE SOURCE OF ELECTRICAL ENERGY. STEWART C. WHITMAN, New York, N. Y., assignor of one-half to George Shackelford, New York, N. Y. Filed June 30, 1930. Serial No. 465,025. 1 Claim. (Cl. 179—100.3.)



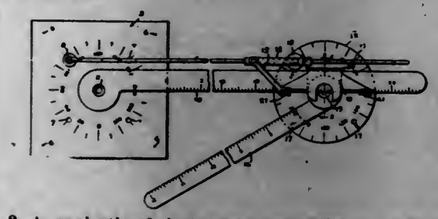
An apparatus for producing a highly actinic light for recording purposes comprising a high frequency mechanical buzzer, inductively coupled means for stepping up the high frequency voltage impulses across the solenoid of the buzzer, a light discharge connected in series therewith and means for modulating the current in the buzzer circuit at audible frequencies.

1,917,281. PENHOLDER INK FONT. RUSSELL A. WOOD, Cambridge, Mass. Filed June 3, 1932. Serial No. 615,127. 13 Claims. (Cl. 120—113.)



1. An ink font for a pen holder in which a pen having a pair of nibs and an aperture therebetween is mounted, comprising an elongated container adapted to be secured on the top side of the holder with one end adjacent the pen-receiving end thereof, said container having a longitudinally extending ink-receiving chamber therein, the walls thereof being resilient and collapsible and having a tubular extension opening to one end of said chamber and arranged to extend over the top side of the pen to the aperture thereof and to terminate in open communication therewith, and means on said extension for engaging the pen in its aperture.

1,917,282. NAVIGATIONAL INSTRUMENT. ELMER L. WOODSIDE, U. S. Navy. Filed Nov. 3, 1931. Serial No. 572,805. 5 Claims. (Cl. 33—98.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



2. A navigational instrument comprising a piece of transparent material upon which is marked a compass

rose, an arm pivoted at the center of said compass rose, a bar pivoted on said piece at a distance "r" from the center of the compass rose, a course and distance attachment slidably mounted on said arm and bar, and means for maintaining the course attachment oriented with respect to the compass rose of said piece while said arm and bar are revolved about their pivots and said course attachment is moved along said arm and bar.

1,917,283. PROCESS FOR MANUFACTURING YEAST. JOHN F. WROTEN, Baltimore, Md. Filed Mar. 19, 1930. Serial No. 437,281. 13 Claims. (Cl. 195—32.)

1. The manufacturing of yeast which comprises placing in a fermenter a dilute yeast nutrient solution of an amount which does not fill up the fermenter, said nutrient solution containing saccharifierous material and other yeast nutrients, adding seed yeast to the solution in amounts at least equal to the weight of the sugar in the nutrient solution, aerating the solution, allow the yeast to propagate until substantially all the sugar has been assimilated by the yeast, adding a second wort containing at least saccharifierous material to the fermenter containing all of the first wort and the yeast produced therefrom, the addition of the total of said second wort being made in a relatively short period of time, said second wort containing less sugar in weight than the weight of the yeast in the fermenter and sufficient in amount to continue propagation for a relatively long period of time, and thereafter allowing the yeast to propagate with aeration until substantially all the sugar added in the second wort has been assimilated.

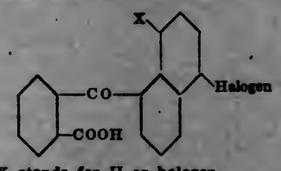
1,917,284. SHEET METAL CONTAINER. JOHN M. YOUNG, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed May 22, 1929. Serial No. 364,960. 3 Claims. (Cl. 220—91.)



1. A sheet metal container including a cylindrical body, a pair of bail ears secured to the body, each ear being formed from a strip of sheet material and being bent back on itself to provide a pocket, a rivet formed integrally from a struck-out portion of the wall of each strip and extending transversely of said pocket, and a flat semi-circular sheet metal bail, each of its ends having movement within said pocket and having pivotal engagement on said rivet.

1,917,285. HALOGEN DERIVATIVE OF α-NAPHTHOYL-O-BENZOIC ACID. ROGER ADAMS, Urbana, Ill., EARL HANFORD JOHNSON, Green Bay, and VIKTOR M. WEINMAYR, Milwaukee, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 16, 1932. Serial No. 599 336. 11 Claims. (Cl. 260—64.)

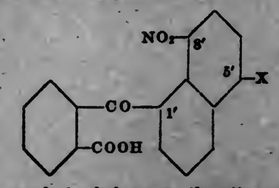
4. A halogenation derivative of alpha-naphthoyl-o-benzoic acid possessing the following general formula:



wherein X stands for H or halogen.

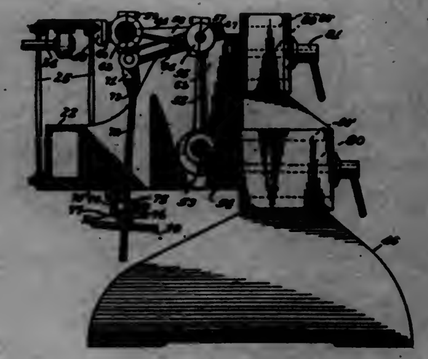
1,917,286. NITRO DERIVATIVE OF α-NAPHTHOYL-O-BENZOIC ACID. ROGER ADAMS, Urbana, Ill., EARL HANFORD JOHNSON, Green Bay, and VIKTOR M. WEINMAYR, Milwaukee, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 16, 1932. Serial No. 599,337. 10 Claims. (Cl. 260—64.)

1. A nitro derivative of alpha-naphthoyl-o-benzoic acid possessing the following general formula:



wherein X stands for halogen or the nitro group.

1,917,287. PAPER MAKING MACHINE. ALONZO ALDRICH and EARL E. BERRY, Beloit, Wis., assignors to Beloit Iron Works, Beloit, Wis., a Corporation of Wisconsin. Filed Jan. 24, 1931. Serial No. 510,877. 24 Claims. (Cl. 92—44.)

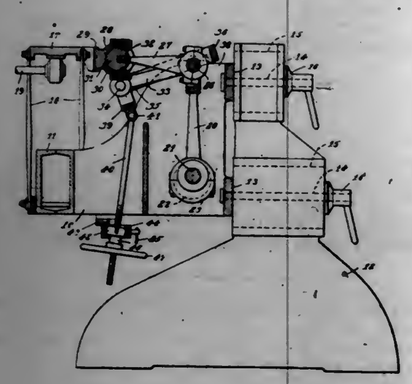


1. In a Fourdrinier paper machine, a sectional table structure, a shaking mechanism operatively associated with a plurality of the table sections, and means forming a part of the shaking means and adjustable during operation thereof for individually varying the amplitude of the shaking movement imparted to any of said associated table structures from zero to the maximum amplitude.

1,917,288. SHAKE MECHANISM FOR PAPER MAKING MACHINES. ALONZO ALDRICH, deceased, Beloit, Wis., by Laura J. A. Neese and Elbert H. Neese, executors, Beloit, Wis., and EARL E. BERRY, Beloit, Wis.; said Aldrich and said Berry assignors to Beloit Iron Works, Beloit, Wis., a Corporation of Wisconsin. Original application filed Jan. 24, 1931, Serial No. 510,877. Divided and this application filed Mar. 21, 1932. Serial No. 600,286. 15 Claims. (Cl. 92—45.)

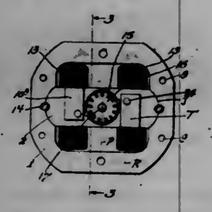
1. In a Foudrinier paper machine, a table structure having a table-roll part adapted to be vibrated, a connecting rod operated by a crank motion, and mechanism operating between the connecting rod and said table-roll

part for shaking the latter by operation of the crank motion and for varying the amplitude of the shake movements said mechanism having all of its motion-transmitting parts



of fixed length and articulated one to another with annular bearings at all articulations, whereby to enable high speed shaking of the table-roll rails.

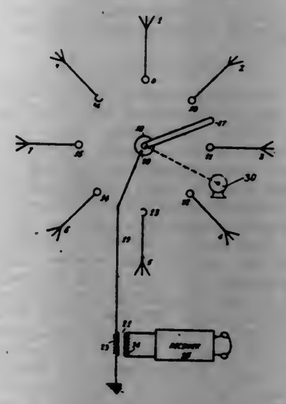
1,917,289. SELF-STARTING INDUCTION MOTOR. BERNHART A. BENSON, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1931. Serial No. 581,612. 9 Claims. (Cl. 172—278.)



1. A stator core for an electric motor, comprising an iron frame, and a separately formed cross-bar extending medially across the frame and abutting at its ends against the frame, the cross-bar having a central perforation for receiving the rotor of the motor, the axis of the perforation being at right angles to the general plane of the frame.

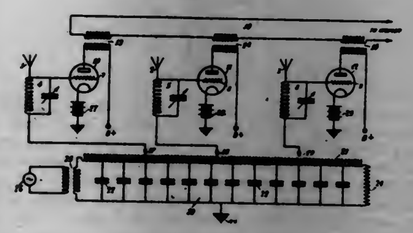
1,917,290. FADING ELIMINATION. HAROLD H. BEVERAGE and HAROLD O. PETERSON, Riverhead, N. Y., assignors to Radio Corporation of America, a Corporation of Delaware. Filed Mar. 15, 1928. Serial No. 261,737. 6 Claims. (Cl. 250—2.)

1. A system for reducing the effects of fading which includes, a plurality of geographically separated antennæ located at widely separated points, a single receiving system and mechanical means for periodically associating each of said antennæ, one at a time, with said receiving system whereby said receiving system, at periodic intervals, receivers signal energy from each of said spaced



antennæ independently of the signals reaching other antennæ thereby substantially eliminating the effects of fading.

1,917,291. METHOD AND MEANS FOR ELIMINATING FADING. HAROLD H. BEVERAGE and HAROLD O. PETERSON, Riverhead, N. Y., assignors to Radio Corporation of America, a Corporation of Delaware. Filed May 2, 1928. Serial No. 274,374. 20 Claims. (Cl. 250—2.)

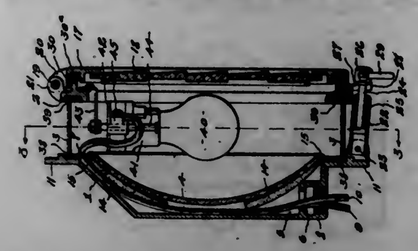


1. The method of avoiding the effects of fading on radio signals which includes, receiving the same signals at a plurality of points and producing therefrom a plurality of signal effects, directing the said signal effects to a common receiving system for all of said receiving points, and continuously cyllically and consecutively associating each of said receiving points with said common receiving system.

1,917,292. DASH ILLUMINATING HEADLIGHT. FRANK BUCHANAN, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed Apr. 3, 1929. Serial No. 352,299. 2 Claims. (Cl. 240—7.45.)

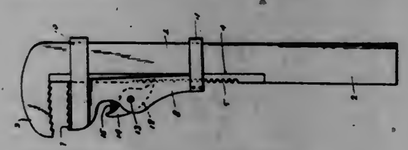
2. A head light construction comprising a concave rear portion having an annular flange extending from its outer edge, a front portion having an annular flange complemental to the flange on the rear portion, a cylindrical, transparent intermediate member between said flanges,

means for securing the sections together and thereby holding the transparent member in position, a reflector located within the concave rear portion, a door hinged



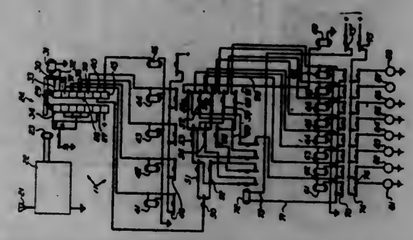
to the front portion and carrying a projecting lens, a light support carried by one of the portions for locating a light source in the focal axis of the reflector.

1,917,293. WRENCH. JOHN F. CAMERON, Seattle, Wash. Filed May 7, 1932. Serial No. 609,930. 1 Claim. (Cl. 81—134.)



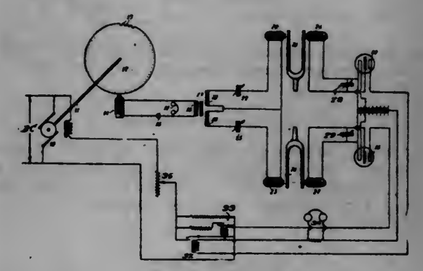
A wrench comprising a shank, a handle on one end of the shank, a substantially right angularly extending stationary jaw on the other end of the shank, said shank having a recess in one side thereof, extending longitudinally therein, a ratchet bar secured in the recess, said ratchet bar having its longitudinal edges inwardly offset from the corresponding edges of the shank, an inner jaw, an extension depending from the inner jaw adjacent the ratchet bar, said inner jaw and the extension having a longitudinal groove therein extending throughout the entire length of the jaw and the extension for the reception of the ratchet bar, the edges of the groove constituting guides abutting the sides of the ratchet bar to prevent transverse motion of the jaw, yokes carried by the inner jaw and the extension slidably engaging the shank for mounting the inner jaw thereon and a spring pressed pawl pivotally carried by the extension and cooperating with the ratchet bar for releasably securing the inner jaw in adjusted position.

1,917,294. REMOTE CONTROL SYSTEM. JOHN O. CARR, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a Corporation of Delaware. Filed Feb. 8, 1932. Serial No. 591,534. 20 Claims. (Cl. 178—4.1.)



1. The method of controlling remote apparatus which comprises sending a start-stop conditioning code for conditioning the remote apparatus to respond to codes other than a start-stop conditioning code, sending a start-stop selecting code for initiating a desired work at the remote apparatus, sending a start-stop clearing code for terminating the initiated work, and sending a start-stop lock-out code for disabling the remote apparatus from responding to any code other than a start-stop conditioning code.

1,917,295. APPARATUS FOR SPEED CONTROL. HARRY W. DREYER, Brooklyn, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed June 12, 1920. Serial No. 370,229. 7 Claims. (Cl. 171—119.)



7. The combination of an electrical device, means including a tone wheel for generating a pulsating current the frequency of which is proportional to the speed of said device, means responsive to said current and tuned respectively to frequencies slightly above and slightly below the normal value of said frequency, and means for controlling said speed differentially in accordance with said high and low frequencies.

1,917,296. MECHANISM AND METHOD FOR CEMENTING DOUBLE LEATHER BELTS. WINFRED S. GRIFFITH, Worcester, Mass., assignor to Graton & Knight Company, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 26, 1929. Serial No. 358,403. 10 Claims. (Cl. 154—4.)

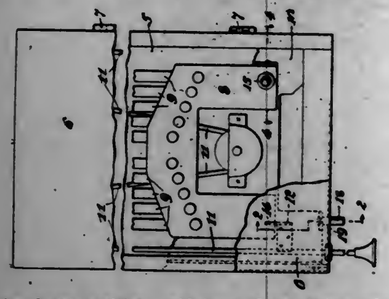


1. In a belt cementing machine, means to cement strips of leather together to form a double belt, means to wind said cemented belt into a tight roll, and means to insert two strips of relatively thin flexible material between successive layers in said roll of belt, said strips being inserted along the two edge portions only of said belt and causing localized pressure to be applied thereto.

1,917,297. LATCH MEANS FOR CABINET DOORS. SAMUEL HAMMER, Brooklyn, N. Y., assignor to United Metal Box Co. Inc., Brooklyn, N. Y., a Corporation of New York. Filed Jan. 22, 1932. Serial No. 588,083. 6 Claims. (Cl. 312—181.)

4. In combination with a cabinet having a hinged door, an article supporting device within the cabinet, and means for moving said device from the lower to the upper end of the cabinet, a latch finger projecting from

the rear face of the door cooperating with a part on said device in the lowermost position thereof to latch said



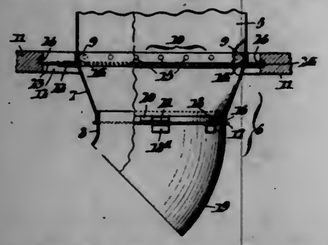
door in closed position, said latch finger being released by the operation of said means to move the device upwardly in the cabinet.

1,917,298. DISPOSAL DEVICE. SAMUEL HAMMER, Brooklyn, N. Y., assignor to United Metal Box Co. Inc., Brooklyn, N. Y., a Corporation of New York. Filed July 12, 1932. Serial No. 622,036. 11 Claims. (Cl. 220—36.)



11. A device of the kind described comprising a receptacle support, complementary housing sections each adapted to enclose and conceal a part of a receptacle on said support, a door associated with each housing section to afford access to the receptacle, and means for mounting said housing sections for independent bodily movement relative to the support to positions permitting of the lateral removal of the receptacle in either direction from the support.

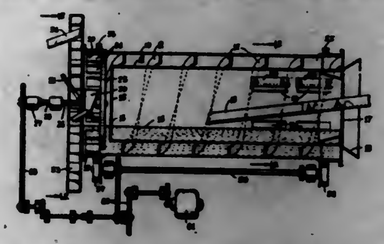
1,917,299. AIR DISTRIBUTION NOZZLE. FREDERICK W. HANKINS, Philadelphia, Pa. Filed Oct. 24, 1931. Serial No. 570,793. 5 Claims. (Cl. 98—13.)



1. An air distribution nozzle for railway cars comprising a funnel forming a part of and the terminus of a duct, said funnel having a slidably extensible frame adapted to fit and lock within a railway car window, and an elbow for discharging air into the interior of the car connected to and swivelling on said funnel.

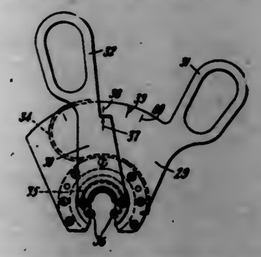
1,917,300. ROTARY WET CLASSIFIER. HARLOWE HARDINGE, York, Pa., assignor to Hardinge Company, Incorporated, York, Pa., a Corporation of New York. Filed July 10, 1929, Serial No. 377,094. Renewed Dec. 9, 1931. 30 Claims. (Cl. 209—452.)

1. In a classifier, the combination comprising a rotary main drum having end walls with apertures therein, a second drum within said main drum, said second drum having walls partitioning the interior of the second drum from the exterior of the second drum except for openings permitting the flow of liquid and material therethrough, means for introducing liquid and material to



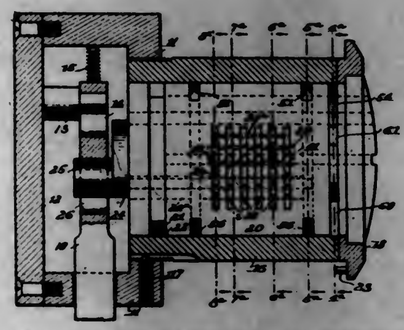
said second drum, means for permitting the removal of liquid and material from the classifier, and means for removing coarse material which has passed through said openings.

1,917,301. SCREW THREAD GAUGE. JAMES HARTNESS, Springfield, Vt. Filed Dec. 11, 1929. Serial No. 413,244. 9 Claims. (Cl. 33—199.)



3. A screw thread gauge comprising a pair of elongated plates slidable on each other, each plate having near one end thereof a concave arcuate edge portion in which is formed a portion of a screw thread, means for maintaining said arcuate edge portions coaxial when the plates slide on each other, a finger loop and thumb piece at the ends of said plates opposite said edge portions, and a spring pressing said finger loop and thumb piece away from each other.

1,917,302. MULTIPLE KEY LOCK. GERRIT D. HILL, Rochester, N. Y., assignor to Sargent & Greenleaf, Inc., Rochester, N. Y., a Corporation of New York. Filed July 18, 1931. Serial No. 551,712. 25 Claims. (Cl. 70—92.)

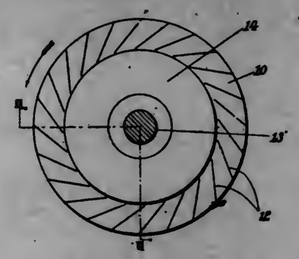


2. In a change key cylinder lock, the combination of a cylinder, a plug rotatable therein, adjustable key controlled locking parts associated with the plug arranged

CARNEGIE LIBRARY OF ATLANTA

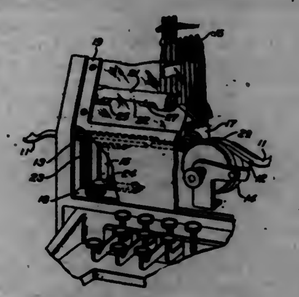
in one position to cooperate with the cylinder to hold the plug against rotation, and control means associated with the plug responsive to the operation of a change key inserted within the plug to condition said parts for operation by any one of a different number of keys occupying a position within the plug during operation of the change key.

1,917,303. ABRADING AND SCOURING ROLL. ERNEST HOPE, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 23, 1929, Serial No. 357,561, and in Great Britain May 24, 1928. 5 Claims. (Cl. 51—190.)



2. A roll of the class described comprising a narrow rotary core of flexible material having sections formed by non-radial slits therein, and a wider band of flexible abrasive material encircling said core.

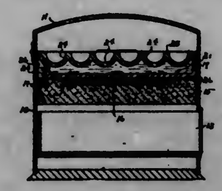
1,917,304. TELEGRAPH PRINTER. LUCIE F. JAQUITH, West Lynn, Mass., assignor to Teletype Corporation, Chicago, Ill., a Corporation of Delaware. Filed Jan. 25, 1932. Serial No. 588,521. 6 Claims. (Cl. 178—1.)



1. In a printing telegraph machine, a printing element, a platen for supporting a member on which characters are printed from said printing element, a support for said element, a bracket secured to said support, a small incandescent lamp, a reflector rotatably secured to said bracket to be displaceable for removing said lamp but normally positioned above and laterally of said member whereby the rays of said lamp illuminate the printing point of said printing element and a substantial portion of the member.

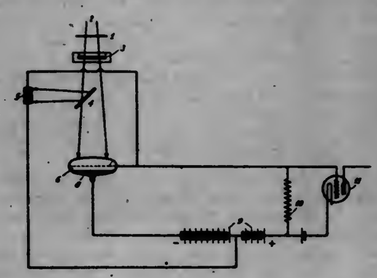
1,917,305. OIL HEATER FOR PERMANENT HAIR WAVING EQUIPMENT. ANTHON G. JOHNSON, Gilman, Iowa. Filed Mar. 21, 1932. Serial No. 600,184. 2 Claims. (Cl. 219—22.)

2. In a device of the class described, a housing, an electric heating unit inside said housing designed to be in communication with a source of electrical energy, a drawer in said housing and below said heating unit, a tray in said housing designed to hold liquid and positioned above said heating unit, a supporting member



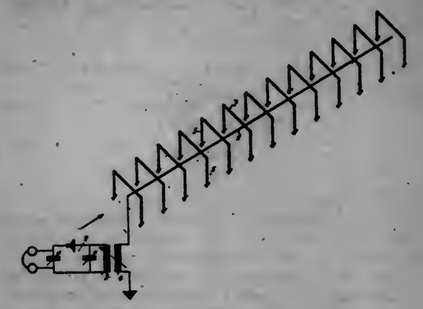
above said tray, and a plurality of receiving grooves in the top of said supporting member adapted to receive pads used in the permanent waving of hair.

1,917,306. METHOD OF REPRODUCING ACOUSTIC FILMS. AUGUST KAROLUS, Leipsig, Germany, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Jan. 28, 1930, Serial No. 424,103, and in Germany Feb. 19, 1929. 9 Claims. (Cl. 179—100.3.)



1. A system for regulating tonal qualities in the reproduction of motion picture film sound records which includes a light translating element for converting fluctuating light intensities into proportionate electric current variations free from distortion throughout the frequency band to be reproduced, and a second light translating element parallelly connected with said first named element and having a sensitivity increasing with decreasing frequency.

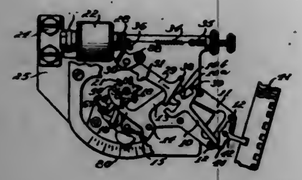
1,917,307. RADIO RECEIVING APPARATUS. FRED H. KROGER, Ridgewood, N. J., assignor to Radio Corporation of America, a Corporation of Delaware. Filed May 23, 1929. Serial No. 365,275. 9 Claims. (Cl. 250—33.)



1. In radio receiving apparatus, the combination with an antenna of means for eliminating static disturbances comprising a plurality of upwardly extending physically

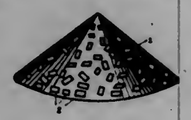
separate grounded conductors in proximity to the antenna, the upper ends of the different conductors having substantially the same difference of potential as the corresponding lower ends of the different conductors, said conductors being also physically separated from said antenna.

1,917,308. PIN BARREL SELECTOR ARMATURE RETAINING TYPE. HOWARD L. KRUM, Kenilworth, Ill., assignor to Teletype Corporation, Chicago, Ill., a Corporation of Delaware. Filed Jan. 30, 1930, Serial No. 424,642. Renewed Sept. 29, 1932. 17 Claims. (Cl. 178—33.)



1. In combination, an electro-magnet subject to marking and spacing impulse conditions, an armature for said electro-magnet, resilient means constantly urging said armature away from said electro-magnet, power driven means for periodically moving said armature into close proximity with respect to said electro-magnet and means for synchronizing the movements of said armature with the impulse intervals.

1,917,309. DIAPHRAGM FOR ACOUSTIC APPARATUS. JOACHIM LEOPOLD, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany, a Corporation of Germany. Filed Dec. 23, 1931, Serial No. 582,729, and in Germany Apr. 10, 1931. 5 Claims. (Cl. 182—32.)



1. A diaphragm comprising a sheet of non-rigid material in which a plurality of irregularly sized and irregularly distributed gaps are cut out over the entire surface

---

1,917,310. AIR CLEANING APPARATUS. ALFRED LESAGE, Schweinfurt, Germany. Filed July 6, 1932, Serial No. 621,032, and in Germany July 7, 1931. 4 Claims. (Cl. 183—90.)

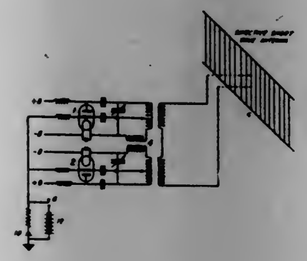


1. In an air cleaning device, the combination of a stationary sleeve attached to the air suction pipe of a combustion engine, with a rotatable case mounted on the said stationary sleeve, leading faces arranged in the air admission openings of the said case and adapted to impart to the air a helical rotation, discharge openings for the particles to be eliminated, and coincident control passages in the relatively rotatable sleeve and case, permitting regulation of the quantity of air supply.

1,917,311. DYESTUFF INTERMEDIATES OF THE BENZOYL-BENZOIC ACID SERIES. RHYS JENKIN LOVELUCK and JOHN THOMAS, Grangemouth, Scotland, assignors to Scottish Dyes Limited, Grangemouth, Scotland. Filed Sept. 9, 1930, Serial No. 480,816, and in Great Britain Sept. 13, 1929. 10 Claims. (Cl. 260—64.)

5. Nitro-3',4'-dichloro-ortho-benzoyl-benzoic acid.

1,917,312. COMMUNICATION ON SHORT WAVES. ALEXANDER MEISSNER, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed July 11, 1928, Serial No. 291,738, and in Germany July 28, 1927. 4 Claims. (Cl. 250—8.)



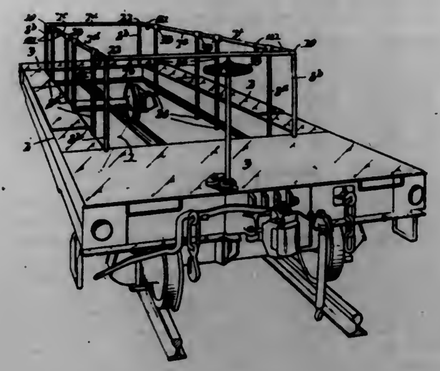
1. The method of communicating with short wave energy which includes generating transmission energy at one high frequency, separately generating transmission energy at another slightly different high frequency, modulating both of said energies simultaneously in accordance with a signal being transmitted, directively radiating both of the modulated energies from a single radiating point, and opposing said energies at the generation point to prevent the generation of energy of a single frequency.

1,917,313. SPRING SUSPENSION FOR CHAIRS. CHARLES C. MEUTSCH, Buffalo, N. Y. Filed Mar. 13, 1931. Serial No. 522,264. 4 Claims. (Cl. 155—179.)



2. A furniture spring suspension comprising a main frame; a movable frame including plies of fabric stitched to form a tubular enclosure and turned up perpendicularly at its opposite edges; a rib arranged within the central part of said enclosure; a vertical cushion spring arranged upon said rib and helical springs arranged within the turned-up portions of the same tubular enclosure aforesaid and connected at opposite ends to said rib and to said main frame.

1,917,314. RAILING FOR WELLHOLE CARS. WILLIAM B. MOIR, Pittsburgh, Pa. Filed Jan. 3, 1933. Serial No. 649,908. 15 Claims. (Cl. 105—367.)



1. In a well-hole freight car, a railing at the well-hole comprising collapsible sections adapted to be swung downward through the well-hole to housed position beneath the car.

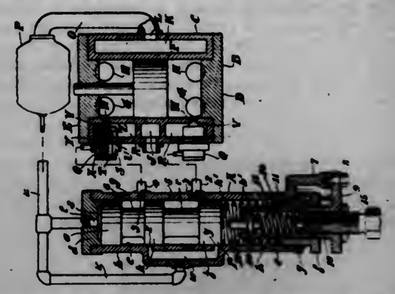
1,917,315. HIGH TENSION FUSE. THOMAS E. MURRAY, Jr., Brooklyn, N. Y., assignor to Metropolitan Device Corporation, a Corporation of New York. Filed Nov. 21, 1928. Serial No. 320,795. 3 Claims. (Cl. 200—127.)



1. In an electrical fuse comprising an elongated tubular casing, a fuse wire having a blowout point disposed within said casing, plunger members disposed within said casing and attached to said fuse wire at points adjacent to either side of said blowout point, at least one of said plunger members being freely movable within the said casing and adapted to be expelled therefrom as a result of the evolution of gases within the said casing upon the blowing out of said fuse wire; at least the inner part of said casing being of insulating character and said casing being adapted to resist disruption upon a blowing out of said fuse wire, the inside diameter of said casing approximating but being greater than the diameter of said fuse wire, and the length of said casing being proportioned to the anticipated voltage to be applied across the said fuse, and ranging upward from about eight times the said inside diameter of the casing.

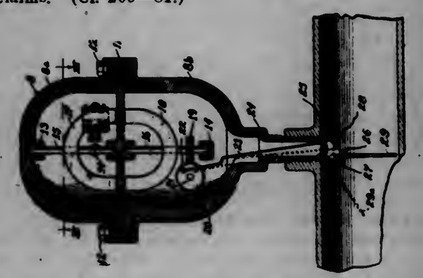
1,917,316. CONTROL VALVE. JULIUS NAAB, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 11, 1932. Serial No. 604,496. 4 Claims. (Cl. 137—153.)

1. A control valve comprising a casing having a chamber and inlet and outlet ports for the chamber, a valve in the valve chamber, an actuating surface on the valve constantly exposed to pressure fluid, a spring seat on the valve exposed to atmospheric pressure, a spring acting against the spring seat and being adapted to yield to a predetermined pressure acting against the actuating surface for establishing communication between an inlet port and an outlet port, and a spring-pressed stop member adapted to engage the spring seat and to yield upon a



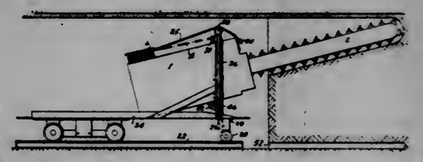
further increase in the value of the pressure fluid acting against the actuating surface to establish communication between a second inlet port and a second outlet port.

1,917,317. FLOW SWITCH. HARRY M. NACEY, Chicago, Ill. Filed Sept. 15, 1930. Serial No. 481,941. 2 Claims. (Cl. 200—81.)



1. In a device of the character described, including a fluid conduit having a threaded opening therein, a hermetically sealed casing including a neck having threaded engagement in said opening, a compartment in said casing communicating with the conduit, and a second compartment being hermetically sealed from said conduit, a magnet in the first compartment and a magnet in the second compartment, said magnets being mounted on aligned axes in juxtaposed relation for independent movement, an electric circuit closing means in said second compartment adapted to be operated by the magnet in that compartment, a vane in said conduit pivotally fixed to the lower end of said neck and disposed to be oscillated by a change of the speed of flow of fluid in said conduit, and a means connecting said vane and said first mentioned magnet whereby motion of he vane is transmitted to said circuit closing means.

1,917,318. MINING APPARATUS. JOSEPH C. NELMS, East Cleveland, Ohio, assignor to The Ohio & Pennsylvania Coal Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 10, 1931. Serial No. 529,070. 10 Claims. (Cl. 262—28.)



1. The combination with a mining machine slidable sidewise upon its own bottom upon a mine bottom and having an orbital cutter projecting fixedly therefrom in

alignment with the major dimension thereof and lying in a plane substantially parallel to the mine bottom, of means for bodily hoisting and concurrently turning the machine to dispose the bottom at an angle to the mine bottom, and means for rockably supporting said machine on an axis transversely of the machine after the hoisting and turning operations and during cutting, whereby the cutter may be swung in a path in a plane angularly disposed to the first mentioned plane.

1,917,319. FURNITURE TRIMMING. EDWIN W. NORTH, Rockford, Ill., assignor to National Lock Co., Rockford, Ill., a Corporation of Delaware. Filed Mar. 22, 1930. Serial No. 437,989. 1 Claim. (Cl. 16—121.)



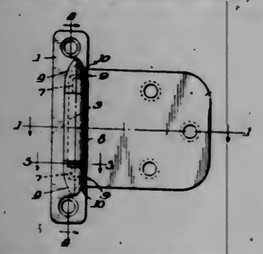
A trimming member for furniture comprising a tubular stem terminating in a plurality of tangs and adapted to enter a recess in the furniture, said stem being of sufficient length to project outwardly therefrom and a cylindrical anvil adapted to be seated in the bottom of said recess and having an enlarged end portion constructed to engage the tangs of said stem and to direct said tangs into the wall of said recess upon forceful insertion of the stem into the recess and against the anvil, said tangs extending into the furniture and being interlocked therein and constituting the sole means of securing said stem to the furniture, the outer end of said stem having a finger grip portion connected thereto.

1,917,320. FURNITURE TRIMMING. EDWIN W. NORTH, Rockford, Ill., assignor to National Lock Co., Rockford, Ill., a Corporation of Delaware. Filed Apr. 13, 1931. Serial No. 529,755. 4 Claims. (Cl. 16—121.)



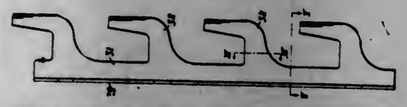
1. A trimming for furniture comprising a stem adapted to enter a recess formed in the furniture, a cup-shaped anvil having an inclined bottom adapted to be received in said recess and shaped to deflect a portion of said stem into the side walls of the recess upon forcing the stem into said recess in engagement with said anvil, and means for limiting the inward movement of said anvil into the furniture.

1,917,321. HINGE. EDWIN W. NORTH, Rockford, Ill., assignor to National Lock Co., Rockford, Ill., a Corporation of Delaware. Filed June 15, 1931. Serial No. 544,334. 4 Claims. (Cl. 16—128.)



1. A hinge comprising a pair of wings and a pintle pivotally securing said wings together, one of said wings having a pair of spaced pockets arranged to receive the ends of said pintle and a pair of integral tongues projecting from said wing and curled inwardly around the ends of said pintle to secure the same within the pockets.

1,917,322. INSULATOR SUPPORT. CHARLES L. PEIRCE, Jr., Pittsburgh, Pa., assignor of one-half to Hubbard and Company, a Corporation of Pennsylvania. Original application filed July 16, 1926, Serial No. 122,826. Divided and this application filed Jan. 26, 1929. Serial No. 335,294. 2 Claims. (Cl. 173—321.)

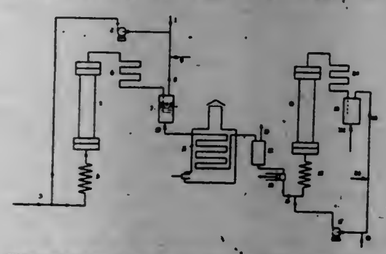


1. In an insulator supporting rack, the combination of two similar blank members, each of said blank members having a body portion of relatively flat outline terminating at one side in a base portion and terminating at the opposite side in a plurality of L-shaped arm portions, each of said arm portions having a cross section whose area decreases toward the extending end thereof, said arm portions having inwardly extending edges, said blank members being mounted in opposite juxtaposition with respect to each other in such a manner that the inwardly extending edges of the arm portions of each blank member are in abutting relationship with respect to the other and the body portions are in spaced relationship, said blank members being rigidly secured together to form a unitary member.

1,917,323. PRODUCING OXYGENATED ORGANIC COMPOUNDS. MATHIAS PIER, Heidelberg, and RUDOLF WIETZEL and KARL WINKLER, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Original application filed Feb. 6, 1925, Serial No. 7,391, and in Germany Feb. 7, 1924. Divided and this application filed Feb. 14, 1929. Serial No. 340,011. 8 Claims. (Cl. 260—156.)

1. In the conversion of oxides of carbon into oxygenated organic compounds, the step which comprises acting on a mixture containing an oxide of carbon and hydrogen, at a temperature between 320° and 500° C. and under a pressure between 200 and 800 atmospheres with a catalytic mass comprising iron in a combined state and a solid element, other than carbon, capable of existing as such in a non-metallic form.

1,917,324. PRODUCTION OF LOW BOILING HYDROCARBON PRODUCTS. MATHIAS PIER, Heidelberg, KARL WINKLER and WALTER SIMON, Ludwingshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J., a Corporation of Delaware. Filed July 7, 1929, Serial No. 369,258, and in Germany June 15, 1928. Renewed Nov. 19, 1932. 7 Claims. (Cl. 196—53.)



1. The process of obtaining low boiling hydrocarbons from bituminous materials of an aromatic nature which comprises treating said materials with hydrogen at a temperature between 300 and 550° C. and a pressure of the order of those employed in destructive hydrogenation, the partial pressure of the hydrogen being at least about 90% of the total pressure and the total pressure increasing as the temperature increases, to thereby extensively hydrogenate said materials, and then subjecting the high boiling fractions of the resulting product to a cracking treatment at a temperature substantially higher than that in the first stage treatment to effect a splitting of said fractions, without a substantial hydrogenation into low boiling hydrocarbons.

1,917,325. BROOCH ASSEMBLAGE. OSCAR PLACCO, Cranston, R. I., assignor to Cohn & Rosenberger, Inc. Filed Dec. 1, 1932. Serial No. 645,166. 8 Claims. (Cl. 63—20.)

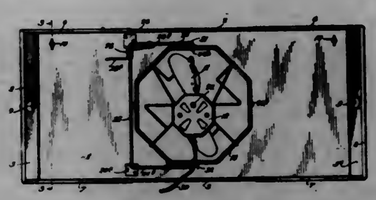


3. A brooch assemblage comprising a back member and at least one ornamental clasp secured thereto, a rim provided with an inner shoulder extending at least a part of the way around the edge of one of said members, the other member being seated on said shoulder, and a clamp hingedly connected to the clasp for removably retaining the clasp and the back member in assembled position.

1,917,326. PROCESS FOR INCREASING THE WETTING CAPACITY OF ALKALINE TREATMENT LIQUIDS. FRIEDRICH POSPIECH, Dresden, Germany, assignor to Chemische Fabrik Pött & Company, Kommanditgesellschaft, Dresden, Germany. Filed Mar. 16, 1931, Serial No. 523,174, and in Germany Mar. 14, 1930. 20 Claims. (Cl. 8—20.)

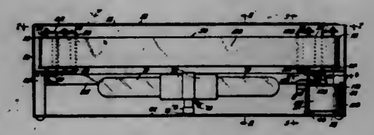
1. In the process of treating fibrous material with strongly alkaline liquors, the step of effecting said treatment in the presence of an ester selected from the group comprising esters of lower monovalent alcohols with unsulfonated higher fatty acids and esters of lower monovalent alcohols with unsulfonated naphthenic acids, whereby the wetting power and penetrating velocity of the alkaline liquors are increased.

1,917,327. ELECTRIC VENTILATING FAN. EDWARD S. PRESTON, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 16, 1931. Serial No. 569,245. 13 Claims. (Cl. 98—94.)



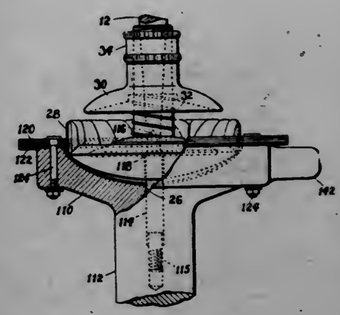
1. A window ventilator including an electric fan and an upright shield supporting the fan; the shield comprising a sheet metal main member having an opening coaxial with the fan and having its upper and lower portions bent to form upper and lower flanges extending toward each other at acute angles to the general plane of the said main member; an extension shield member having its major portion upright and having upper and lower flanges respectively overhanging and underhanging the aforesaid flanges on the main shield member; and adjustable means threaded through the main member adjacent to the upper flange thereof and engaging the extension shield member to rock the latter about the lower edge of the flange on the latter member, thereby pushing the upper flange of the main shield member away from the extension member and against the upper flange on the extension shield member.

1,917,328. ADVERTISING DEVICE. SIGMUND REST, Chicago, Ill. Filed Apr. 4, 1932. Serial No. 602,976. 10 Claims. (Cl. 40—32.)



1. The combination with a casing having a sight opening, of a traveling endless band positioned within the casing, a plurality of spools carrying said band and arranged for dividing the band into a plurality of reaches, one of said reaches extending across said sight opening, brackets for mounting said spools, one of said brackets being pivotally mounted, automatic tensioning means connected with said movable bracket, one of said spools constituting a driving spool, a motor, transmission means connecting the motor with said driving spool, the bracket supporting said last named spool being shiftable for accommodating transmission means of different speed ratios when substituting a direct-current motor for an alternating-current motor, or vice versa.

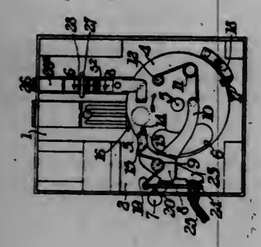
1,917,329. DEVICE FOR APPLYING ABRASIVE TOOL COVERS. FRED RICKS and EDWARD FREDERICK TOWNDROW, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Apr. 17, 1926, Serial No. 102,688, and in Great Britain Apr. 25, 1925. Divided and this application filed Dec. 2, 1930. Serial No. 499,528. Renewed June 30, 1932. 8 Claims. (Cl. 51—275.)



1. A device for folding the peripheral tabs of an abrasive cover over the edge of the disk of a Naumkeag tool in which the radius of curvature of the face of the disk upon the tool is greater than the radius of curvature of the corresponding face of the pad, said device comprising a cup-shaped holder having a spacing member adapted

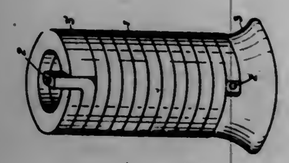
to be brought into engagement with a rigid portion of the Naumkeag pad to allow contact of the pad cover with the pad around its periphery and constructed and arranged to keep the holder at a predetermined distance from the pad thereby to prevent the holder from forcing the central portion of the cover against the pad, and means for folding in the peripheral tabs of the cover to allow the cover to be secured upon the pad.

1,917,330. PHOTOGRAPHIC SHUTTER CONTROL. WILLIAM A. RIDDELL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 13, 1932. Serial No. 592,741. 5 Claims. (Cl. 95—61.)



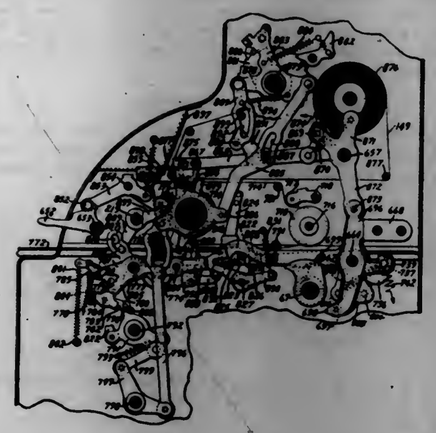
1. In a camera shutter the combination with a shutter blade, and a pivotal support for the blade, of a spring for driving said blade, a trigger for controlling the blade and a movable arm adapted to engage a part of the shutter blade for time and bulb exposures, said arm including a stop, and a spring latch associated with the stop, and means for moving the arm to permit either the stop or the stop and latch to be positioned to cooperate with said shutter blade and trigger for time or bulb exposures.

1,917,331. RESISTANCE BODY. JOHANN FRIEDRICH SCHEID, Hermsdorf in Thuringia, Germany, assignor to Porzellanfabrik Kahla, Kahla in Thuringia, Germany. Filed Sept. 29, 1931, Serial No. 565,782, and in Germany Sept. 29, 1930. 6 Claims. (Cl. 201—65.)



3. An electric resistance device for use in high voltage electrical systems which includes a plurality of parallel conduits of ceramic material arranged in superimposed contacting relation and adhering to each other to constitute a self-contained rigid body, columns of electric resistor liquid therein adapted to be electrically connected in series, and electrodes attached to said conduits and arranged for conducting an electric current through the series of columns, two or more of said parallel conduits being provided within a single tube of ceramic material.

1,917,332. CASH REGISTER. BERNIS M. SHIPLEY, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Original application filed Jan. 19, 1924, Serial No. 687,305. Divided and this application filed May 21, 1930. Serial No. 454,319. 24 Claims. (Cl. 235—3.)



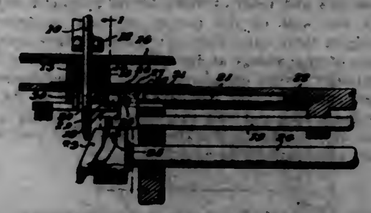
1. In a machine of the class described, a feeding roller movable into and out of functioning position, a plurality of keys, a differentially movable member controlled by said keys, and means controlled by said differentially movable member for controlling the position of said feeding roller.

1,917,333. WHEEL HOE. BYRON L. SIMMONS, Freewater, Oreg. Filed Aug. 1, 1931. Serial No. 554,417. 3 Claims. (Cl. 97—59.)



1. In a wheeled hoe, the combination with a wheel mounted on an axle, and a pair of handles mounted on and diverging from said axle, of a braced frame structure formed of thin narrow strips and comprising a vertically positioned arch member disposed relative to said handles to provide a lateral brace therefor and to permit free ingress between said handles to said arch member, a U-shaped member attached by the open end to said axle and at the closed end to the arch member to provide in conjunction with said handles a triangular braced structure, and a substantially U-shaped tool member removably attached to said arch member comprising a flat cutting blade disposed to provide a bottom lateral brace for said arch member, the lower portion of the arms of said U-shaped tool member being offset to provide plant protectors.

1,917,334. TUFTING MACHINE. LOYD A. SMITH, Lagrange, Ga., assignor to Truline, Incorporated, Lagrange, Ga., a Corporation of Georgia. Filed June 25, 1932. Serial No. 619,287. 31 Claims. (Cl. 112—79.)



1. A tufting machine comprising a needle actuating mechanism therefor, a work support, means for feeding the work through the machine, loop forming and cutting means, means for gripping the loop, said gripping means being actuated by said loop forming means.

1,917,335. ROCK DRILLING MECHANISM. WILLIAM A. SMITH, Sr., Easton, Pa., and WILLIAM A. SMITH, Jr., Phillipsburg, N. J., assignors to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 6, 1932. Serial No. 615,525. 2 Claims. (Cl. 121—5.)



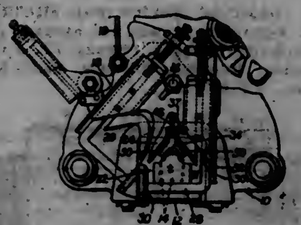
1. In a drilling mechanism, a fluid actuated motor adapted to actuate a working implement, a feeding cylinder, a fluid actuated piston therein and having opposed pressure areas, a rod on the piston supporting the motor and being hollow to convey pressure fluid to the motor, a support for the feeding cylinder, a handle, a spindle for the handle rotatable in the cylinder and having a bore, a bar affixed to the shaft slidably interlocked with the piston and having a passage extending longitudinally therethrough for conveying pressure fluid from the bore to the rod, means in the handle for selectively supplying pressure fluid tarough the passage to one pressure area and to the rod, a port in the bar to convey pressure fluid from the passage to one pressure area, and means for constantly supplying pressure fluid to the other pressure area.

1,917,336. TURN-UP-TABLE. KARL SPITZ, Vienna, Austria. Filed June 1, 1932, Serial No. 614,677, and in Austria June 8, 1931. 4 Claims. (Cl. 45—51.)



1. A table device comprising a guide member, a table, a table-arm connected to said table only at one end thereof, said table-arm being slidable with respect to said guide, and being also turnable only within one end of said guide, but being non-turnable within the remainder of said guide, means adapted to engage and retain said table-arm in outwardly inclined position with respect to the aforesaid end of said guide, and means adapted to retain the table-arm in sliding relation to said guide, said table being turnable over the exterior of said guide and being wider than said guide.

1,917,337. HOLDER FOR HEEL-PORTIONS. JOHN F. STANDISH, Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 31, 1931. Serial No. 584,162. 14 Claims. (Cl. 1—32.)

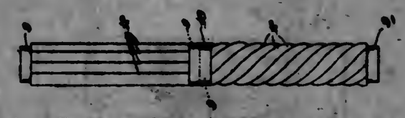


1. In a holder for heel-portions, a contact member constructed and arranged to position one type of heel-portion for an attaching operation, a second contact member constructed and arranged to position another type of a similar heel-portion for attachment to a corresponding work-surface, and a mounting for the second member permitting its movement away from the first-mentioned member to an inactive position away from the plane of said work-surface and toward said first-mentioned member into active relation.

1,917,338. NEUTRALIZATION OF PYROLIGNEOUS ACID. HERBERT G. STONE, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 18, 1931. Serial No. 575,978. 5 Claims. (Cl. 260—112.)

1. In a process of neutralizing pyroligneous acid with an alkali metal carbonate, the steps of adding the alkali metal carbonate to sufficient pyroligneous acid to convert it into alkali metal bicarbonate, and then adding sufficient pyroligneous acid to complete the neutralization of the alkali metal carbonate.

1,917,339. CHAR RETORT. JOHN F. STRAITS, Philadelphia, Pa., assignor to National Airoil Burner Company, Incorporated, a Corporation of Delaware. Filed June 17, 1931. Serial No. 544,961. 4 Claims. (Cl. 202—221.)



1. A vertical retort comprising elongated tubular sections, each section having at each end reduced end portions, a cooperating separable sleeve adapted to receive a reduced end of each of two of said sections when the two sections are brought into vertical alinement and abutting with one end of one of the two sections resting upon one end of the other section, and all of said reduced end portions of said sections having the same dimensions so that said sections are independently removable and replaceable with either end uppermost.

2. A vertical char retort having, as to its interior wall surface, substantially parallel longitudinally extending channels arranged side by side and having the

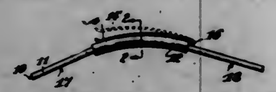
surfaces of each two of the adjacent channels meet each other in an acute angle and the bottom portions thereof are shaped in cross-section, and merging at the opposite sides thereof, into other surfaces, the adjacent other surfaces joining each other and thereby forming said acute angles so that the width across each of the channels increases progressively from the bottom portion thereof to the two acute angles at the opposite sides of the channel, and the exterior wall surface of the retort so formed and disposed, relatively to said interior wall surface, that the thickness of the retort wall at the ridges is approximately double that of the intermediate wall portions, as and for the purpose specified.

1,917,340. DAMPING DEVICE FOR SHUTTERS. ARTHUR G. SUTCLIFFE, Chicago, Ill., assignor to Ilg Electric Ventilating Company, Chicago, Ill., a Corporation of Louisiana. Filed Sept. 16, 1929. Serial No. 393,102. 2 Claims. (Cl. 98—116.)



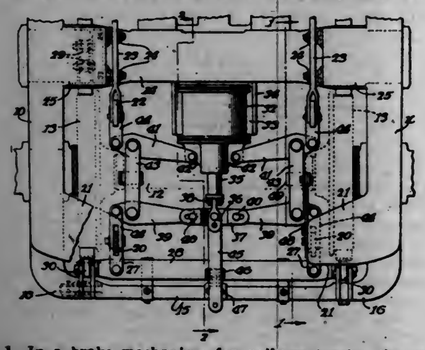
1. The combination with a fan, and a movable shutter adapted to be opened by the fan blast and to automatically close when the fan stops, of pneumatic means for damping the closing movement of the shutter.

1,917,341. HAIR CURLER. CHARLES K. THAU, Brooklyn, N. Y. Filed Dec. 16, 1932. Serial No. 647,516. 3 Claims. (Cl. 132—43.)



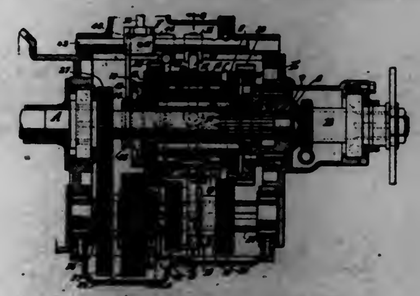
1. A hair-curler comprising a piece of flexible wire, a tubular member surrounding only a portion of said wire intermediate its ends and a piece of resilient material bent around and over an edge of said tubular member, the arms of said resilient member being under resilient abutment upon the inner face and outer face of said tubular member.

1,917,342. BRAKE MECHANISM. HOWARD D. TAYLOR, Reading, Pa., assignor to Flexible Truck Corporation, Reading, Pa., a Corporation of Delaware. Filed Sept. 21, 1931. Serial No. 563,929. 9 Claims. (Cl. 188—46.)



1. In a brake mechanism for railway trucks, the combination with the truck frame comprising side members, clasp brake levers thereon, and a transverse member disposed between two of the wheel axles, of a brake cylinder mounted on the central outer side portion of said transverse member and having a piston rod extending toward the adjacent end of the truck, and horizontally disposed live and dead cylinder levers arranged adjacent and on one side of the piston rod and connected respectively at their outer ends to the brake levers associated with one of the wheels at the adjacent end of the truck, said cylinder levers being connected together intermediate their ends with the live lever connected at its inner end to the piston rod and the dead lever having a fixed fulcrum at its inner end adjacent the outer end of the cylinder, substantially as described.

1,917,343. CHANGE SPEED TRANSMISSION. FRED C. THOMPSON, Detroit, Mich., assignor, by mesne assignments, to Automotive Research Corporation, a Corporation of Delaware. Filed June 20, 1927. Serial No. 200,061. 10 Claims. (Cl. 74—58.)



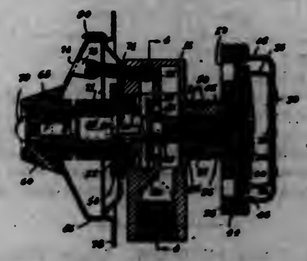
1. A transmission device comprising, in combination, a driving shaft, a driven shaft, a gear coaxial with the driving shaft and adapted to be rotated therewith, a gear coaxial with the driven shaft and adapted to be rotated therewith, a compound internal and external gear associated with said coaxial gears, sets of external gear teeth carried by respective separate gears of the aforesaid gearing, selective gearing adapted to be meshed with said external gear teeth and clutch means for connecting the shafts for direct drive and for permitting connection of the shafts for drive through the medium of the internal external gearing or through the medium of the selective gearing and certain of the gears of said internal external gearing.

1,917,344. REFRIGERATOR TRAP. JAMES HENRY TOBIN, Fond du Lac, Wis., assignor to Tobin Tool & Die Company, Inc., Fond du Lac, Wis., a Corporation of Wisconsin. Filed June 18, 1932. Serial No. 617,942. 3 Claims. (Cl. 182—8.)



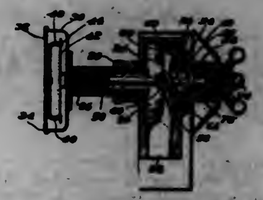
1. In a refrigerator trap, the combination of a trap cup having a liquid space, a drain tube mounted above said trap cup and having resilient walls, and a sealing hood having a lower edge entering said liquid space and an upper portion entering the lower end of said tube and having spaced projections frictionally engaging the inner surface of the resilient walls of said tube to detachably secure said hood to said tube.

1,917,345. OVEN REGULATOR. ANTON M. VEDOE, Wollaston, Mass., assignor to Vedoe-Peterson Co., Norfolk Downs, Mass., a Partnership consisting of Anton M. Vedoe and Erick J. Peterson. Filed May 19, 1931. Serial No. 538,408. 6 Claims. (Cl. 236—15.)



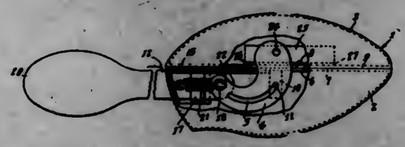
1. An oven regulator comprising a body member having two connected gas ports extending thereinto, a valve intercepting said ports, a thermostatic plate extending transversely of the valve axis and spaced from and connected to the valve, means carried by the body member and providing a heat-insulating wall between the body member and plate, and a cup-like member mounted on said wall and housing and supporting the plate therein on its bottom wall.

1,917,346. AUTOMATIC GAS CONTROLLER FOR OVENS. ANTON M. VEDOE, Quincy, and CARL EIBYE, Boston, Mass., assignors to Vedoe-Peterson Co., Norfolk Downs, Mass., a Copartnership consisting of Anton M. Vedoe and Erick J. Peterson, Quincy, Mass. Filed Dec. 17, 1930. Serial No. 502,957. 11 Claims. (Cl. 236—15.)



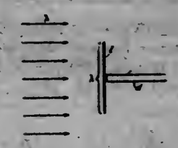
10. An oven regulator comprising a body member having two connected gas ports extending thereinto, a valve intercepting said ports, a housing including a relatively thin wall supported by the member, a thermostatic plate within the housing and adjacent to the wall, a threaded stud connected to the plate and extending toward the valve, a stem connected to the valve and threaded to the stud, and means exterior of the member and on the side of the valve opposite to said stem for rotating the stem.

1,917,347. SHOE TREE. MEL VON ASTHOLZ and THOMAS CONCHA, Los Angeles, Calif.; Frank Bryson, public administrator of said Thomas Concha, deceased, assignor to said Mel von Asthola. Filed July 13, 1931. Serial No. 550,406. 9 Claims. (Cl. 12—128.1.)



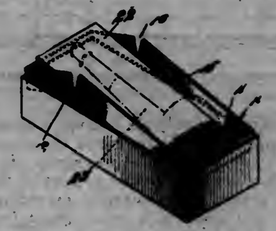
1. A shoe tree having a body divided longitudinally into two sections, a single extension bar, means for guiding the extension bar on one of said sections to extend the same transversely of the body, means for connecting the said bar with the other section, means for normally holding said bar in a retracted position to hold said sections substantially against each other, and means connected with said bar for extending the same.

1,917,348. ANTENNA. NICOLAI VON KORSHENEWSKY, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed July 12, 1930, Serial No. 467,538, and in Germany July 12, 1929. 6 Claims. (Cl. 250—33.)



2. A receiving antenna comprising a linear conductor having a length substantially equal to the length of the communication wave and arranged effectively at right angles to the direction of radiation for excitation substantially uniformly throughout its entire length, and means for establishing coupling to the antenna at the center thereof.

1,917,349. DISPLAY BOX. LOUIS R. WILMARTH, Attleboro, Mass., assignor to Howard S. Scholes, Edgewood, R. I. Filed Feb. 27, 1932. Serial No. 595,490. 8 Claims. (Cl. 206—44.)



1. A box comprising a body part and a cover part telescoping thereover, one part being hinged intermediate its ends to form two sections which may be disposed at an angle to each other and the other part receiving and holding said hinged sections in angular relation.

1,917,350. MACHINE FOR CLEANING CANS. FRANK F. WOLF, Cattaraugus, N. Y., assignor to Oakes & Burger Co. Inc., Cattaraugus, N. Y., a Corporation of New York. Filed Nov. 4, 1930. Serial No. 493,299. 4 Claims. (Cl. 141—7.)



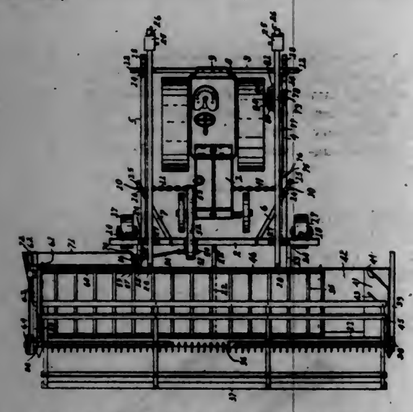
1. In a can washing machine, the combination with means for supporting the cans while being treated, reciprocable means for advancing a can along said supporting means and a treating station to which said can is

moved, of means for subjecting the can simultaneously to two treating fluids and a valve operable by said advancing means while the can is pausing at said station for cutting off the supply of one treating fluid whereby the can is subjected only to the continued action of the other fluid.

1,917,351. COLLOIDAL, HYDROPHILIC SULPHUR. HARRY C. YOUNG, Wooster, Ohio. Filed Mar. 22, 1932. Serial No. 600,570. 5 Claims. (Cl. 23—226.)

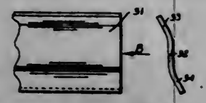
2. As a new composition of matter an aqueous suspension of colloidal hydrophilic sulphur containing at least 50% sulphur.

1,917,352. WINDROWING MACHINE. ALBERT APEL, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Feb. 1, 1928, Serial No. 251,002. Renewed Dec. 12, 1932. 24 Claims. (Cl. 56—23.)



1. In a windrowing machine, a sickle, a deflector in the rear of one end portion of the sickle extending inwardly from its extremity and adapted to prevent the cut material from falling upon the ground over which that portion of the sickle passes, and a conveyor extending from the other end of said sickle to a point spaced from the deflector, whereby grain cut by the sickle will be deposited in a row defined by the space between the deflector and conveyor.

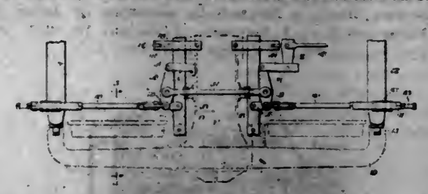
1,917,353. METHOD OF PRODUCING BEVELED BLADES. WILLIAM H. BAILEY, Pueblo, Colo., assignor to The Colorado Fuel and Iron Company, Denver, Colo. Filed July 15, 1930. Serial No. 468,118. 6 Claims. (Cl. 76—104.)



1. The method of producing beveled edge blades comprising rolling stock with an even distribution of metal at either side of a longitudinal axis, and then frictionally sawing the stock along the longitudinal axis at an angle, other than a right angle, to a face of the stock, to provide a beveled edge.

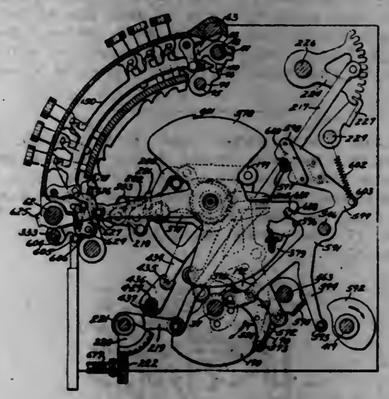
1,917,354. BRAKE RIGGING. WALTER H. BASELT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 11, 1929. Serial No. 413,241. 37 Claims. (Cl. 188—56.)

1. In a brake rigging, the combination with a truck provided with a centrally disposed bolster, a plurality of truck levers, coupling rods connecting certain of said truck levers, other levers one of which is mounted on said



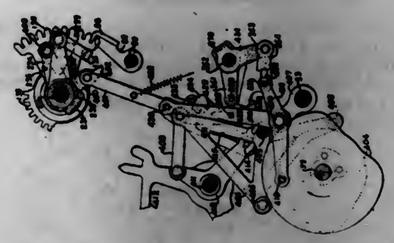
bolster having pivotal connection with certain of said truck levers, and a tie rod joining said other levers and adapted to have frictionless engagement upon said bolster.

1,917,355. CASH REGISTER. SAMUEL BRAND, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed June 10, 1927. Serial No. 197,941. 44 Claims. (Cl. 235—3.)



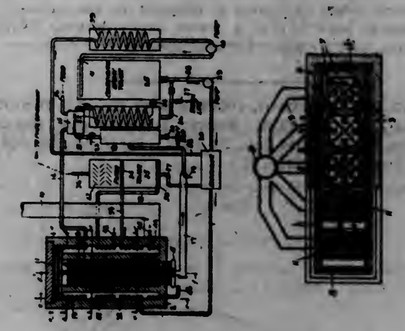
1. In a machine of the class described, the combination of an adding and total taking mechanism, driving means to operate said mechanism through one cycle, two cycle, or three cycle operations, and manipulative means controlling said driving means to determine the number of cycles to be given said mechanism.

1,917,356. CASH REGISTER. SAMUEL BRAND, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Sept. 9, 1929. Serial No. 391,276. 33 Claims. (Cl. 235—8.)



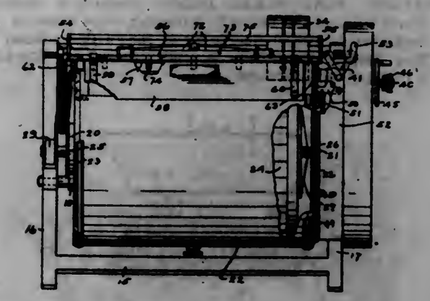
6. In a machine of the class described, the combination of a group of totalisers on a common axis; actuating means for said totalisers adapted to be moved in one direction to add amounts upon the totalisers, and in another direction to restore the totalisers to zero; means to engage any one of a plurality of said totalisers with the actuating means when said actuating means is moving in one direction; and means to engage another totalizer located on the same axis with the plurality of totalizers, with the actuating means when said actuating means is moving in the other direction.

1,917,357. APPARATUS FOR ALTERING THE BOILING POINTS OF HYDROCARBONS. ROBERT E. BURK, Cleveland, and ELLIOTT B. MCCONNELL, Shaker Heights, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 1, 1930. Serial No. 499,160. 16 Claims. (Cl. 196—107.)



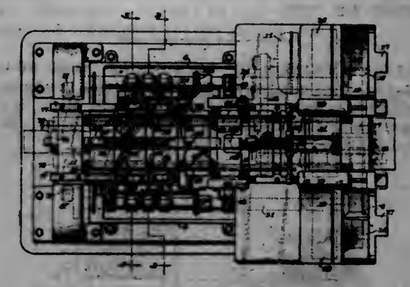
3. In apparatus for altering the boiling points of hydrocarbons, a furnace chamber, upper and lower manifolds each having corresponding branching arms forming an angle, tubes connecting aligned portions of such manifolds respectively, and heating means at each angle between such sets of tubes and on each side of all tubes.

1,917,358. REVOLVABLE HULL WASHING MACHINE. WILLIAM JOSEPH BYRNE, Indianapolis, Ind. Filed May 13, 1931. Serial No. 536,967. 18 Claims. (Cl. 68—38.)



1. In a washing machine, the combination with a revolvable hull having an opening therethrough, of a movable cover for said opening fixed in relation to circumferential travel of the hull, and means normally securing the front end of the cover to the hull, said cover having its rear end contacting said hull without attachment thereto to permit movement of the rear end away from the hull.

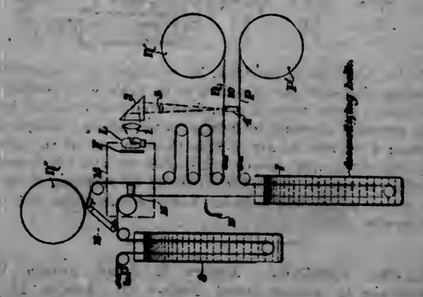
1,917,359. CAN MAKING MACHINE. WILLIAM CAMERON, Chicago, Ill., assignor to Cameron Can Machinery Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 28, 1930. Serial No. 447,914. 12 Claims. (Cl. 113—7.)



9. In a can body forming machine, a slide along which can body blanks are progressively advanced, mechanisms for operating upon blanks situated at stations along the slide, means for advancing blanks in one direction along said slide to said stations, stops along said slide at each of said stations for accurately positioning the blanks, blank set back mechanism normally positioned below said slide and movable upwardly into the path of movement of said blanks when in operating position to positively engage the leading end of said blanks, and means for moving said set back mechanism into operating position and in a direction opposite to said advancing means for positioning said blanks against said stops.

11. In a can body forming machine, a slide along which can body blanks are progressively advanced, mechanisms for simultaneously operating upon the blanks situated at a plurality of stations along the slide, means for advancing blanks in one direction along said slide to said stations, an electric motor for actuating said mechanisms and said advancing means, means normally in position to be engaged by a blank or blanks of abnormal thickness throughout substantially the entire length of said slide and at said stations, said means being movable toward and from the path of said blanks, and means operable by said means for interrupting the current supply to said motor upon predetermined movement of said movable member to stop said mechanisms and said advancing means.

1,917,360. FILM PRINTING. JOHN G. CAPSTAFF, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 22, 1931. Serial No. 532,030. 8 Claims. (Cl. 88—24.)



1. In a process of making a print on a continuous sensitive band from another band carrying images, the steps of exposing the first band to an actinic light from the

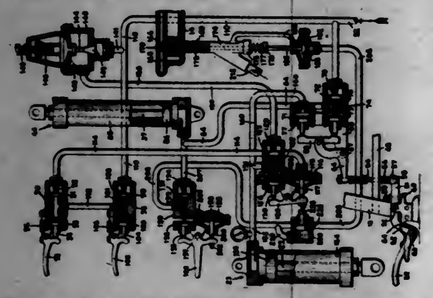
second band, submitting the sensitive band to the action of a desensitizing bath, and then exposing the sensitive band area by area to a non-actinic light capable of lessening the effect of the first exposure, the intensity of the second exposure being controlled by the corresponding area of the image carrying band from which the first exposure was made.

1,917,361. METHOD OF PRODUCING CORK BOARD. RALPH P. CHAMPNEY, Dearborn, Mich., assignor to Mitchell & Smith, Incorporated, Detroit, Mich., a Corporation of Massachusetts. Filed May 16, 1930. Serial No. 452,921. 2 Claims. (Cl. 18—48.)



1. The process of treating cork which consists in loading a receptacle with a loose mass of cork granules, passing steam through the mass while maintained in a comparatively pressure-free condition with air excluded therefrom to heat the mass for the liberation of natural resins, cutting off the flow of steam after the completion of heating to 350° F. or more, subsequently, without removal of the cork mass from the receptacle and without permitting substantial access of air thereto, subjecting the hot mass of cork to definite compression for the purpose of producing a predetermined volume and density, and finally cooling the hot compressed mass while maintaining the mass in the receptacle in a condition of reduced volume.

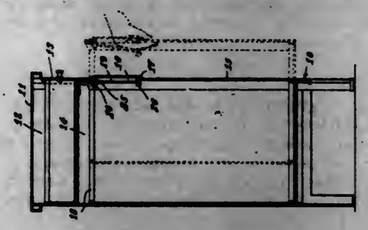
1,917,362. AIR FLOW WITH AUTOMATIC PRESSURE REGULATION. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Sept. 2, 1930. Serial No. 479,311. 8 Claims. (Cl. 68—9.)



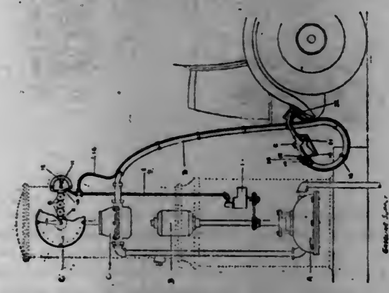
3. In a pressing machine in combination cooperating pressing elements one of which is movable with respect to the other; press operating mechanism to actuate the movable pressing element including motor means; means for causing a current of air to pass through one of the pressing elements; and means controlled by the air current causing means to cut off the supply of working fluid to the motor means and exhaust working fluid from the motor means.

1,917,363. CABINET. ADOLPH E. FOHN, Aurora, Ill., assignor to Aurora Metal Cabinet Co., Aurora, Ill., a Corporation of Illinois. Filed July 15, 1931. Serial No. 550,832. 10 Claims. (Cl. 220—1.)

1. A fireproof waste paper cabinet comprising a metal cabinet provided with a compartment opening at the front of the cabinet, an open top metal receptacle for waste paper slidable into and out of the cabinet compartment and having one of the vertical walls thereof constructed to serve as a closure for the compartment whereby to provide a substantially air-tight waste paper receptacle when the same is disposed in the cabinet, the aforesaid wall having a waste paper opening provided therein, and a closure for said opening.



1,917,364. CONTROL DEVICE FOR LIQUID DISPENSING APPARATUS. ROBERT J. GALLAGHER, Binghamton, N. Y. Filed Jan. 20, 1932. Serial No. 587,661. 9 Claims. (Cl. 221—95.)



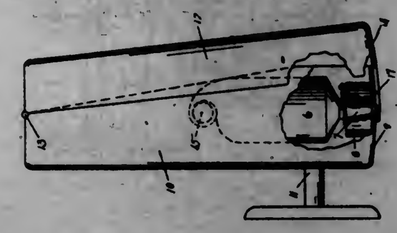
1. In combination, a liquid-meter, means to force and convey liquid to said meter, means to convey liquid from said meter, an air and meter controlled flow-control-valve connected with last mentioned means and air-pumping and air-pipe means for applying air suction to said valve controlling means.

1,917,365. STRUCTURAL JOINT. FREDERICK GOERTZ, South Orange, and LOUIS E. BALTZLEY, Glen Ridge, N. J., assignors to August Goertz & Co., Inc., a Corporation of New Jersey. Filed July 27, 1931. Serial No. 553,368. 6 Claims. (Cl. 189—36.)



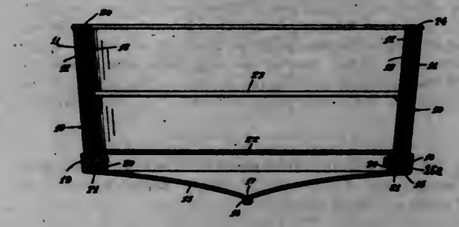
1. In combination, a pair of adjoining plates having marginal edges arranged to be connected to one another, a joint for interconnecting the marginal edges of said plates, said joint comprising spaced lugs projecting from the marginal edge portions of each of said plates, each of said lugs being bent over into substantially C-shape and positioned in overlying relation to its respective plate with the free end of said lug positioned closely adjacent the plate, and a yoke member for cooperating with said lugs to thereby secure said plates together, said yoke member comprising a slitted tube adapted, in assembling the joint, to be slid longitudinally over said lugs so that said lugs project through the slit of said tube and the free ends of the lugs press the sides of said tube against said plates to lock said plates to said tube and to one another.

1,917,366. CUT-OFF FOR DISPENSING DEVICES. HAROLD M. GUSDORF, Indianapolis, Ind. Filed Aug. 1, 1932. Serial No. 627,228. 12 Claims. (Cl. 221—60.)



1. A cut-off for paste material discharging downwardly from a container, comprising a wire and means for moving the wire against and through the discharging paste, the wire itself contacting and passing through the material performing the cutting thereof.

1,917,367. BOAT. HORACE W. HALL, Newton, Mass. Filed Sept. 24, 1932. Serial No. 634,727. 6 Claims. (Cl. 9—6.)



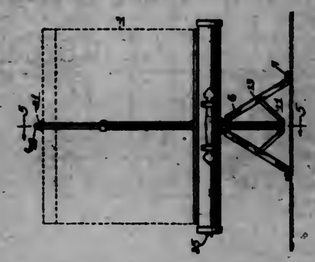
1. A boat comprising a bottom, two side sections, and a laminated wood section forming the whole stern and part of the sides of said boat connected to said side sections.

1,917,368. LOADING MACHINE. ANDREW HAUGH, Michigan City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 24, 1930. Serial No. 447,066. 6 Claims. (Cl. 198—10.)



1. A loading machine comprising, in combination, a frame, elongated supporting members, continuously rotating means for actuating said supporting members, means for guiding said supporting members by said frame whereby said members have both vertical and horizontal components of movement, material engaging means pivotally supported upon said members at the outer ends of the latter, and means for controlling the angular position of said engaging means relative to said supporting members including a pair of oscillatable elements providing moment arms one of which is directly connected to said engaging means, means for operatively connecting said elements together, and means supported by said frame and connected to the second one of said elements for controlling the position thereof.

1,917,369. PORTABLE PICTURE SCREEN STAND. JOHN T. HECK, Chicago, Ill., assignor to Da-Lite Screen Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 21, 1931. Serial No. 517,387. 9 Claims. (Cl. 88—24.)

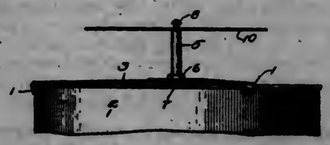


1. In a structure of the class described, the combination of an upright standard having supporting legs and having an elongated slot therein, a screen web and a reel therefor, a mounting for said reel slidable on said standard, an extension for the standard for raising and lowering the height thereof, means operated by said extension and extending through said slot for engaging said mounting for correspondingly raising and lowering the screen reel in definite relation to said extension, and means associated with said extension for holding a definite length of screen web unwound from the reel in any position to which the reel and extension are moved.

1,917,370. DUPLICATING PROCESS. KENNETH C. D. HICKMAN, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 13, 1932. Serial No. 622,325. 10 Claims. (Cl. 101—149.)

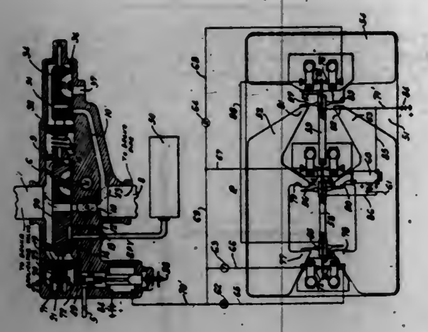
1. A duplicating process that comprises forming a design on paper with an ink, transferring impressions of said design to a suitable pad, and then pressing a sheet of paper against the impression on said pad, said second paper containing a substance which becomes darkened upon contact with another substance contained in the ink and transferred to the second sheet from the pad.

1,917,371. ROOST-PREVENTER FOR POULTRY FOUNTAINS OR FEEDERS. DEWEY H. HILL, Kokomo, Ind., assignor to Globe American Corporation, Kokomo, Ind., a Corporation of Indiana. Filed May 29, 1931. Serial No. 540,928. 10 Claims. (Cl. 119—52.)



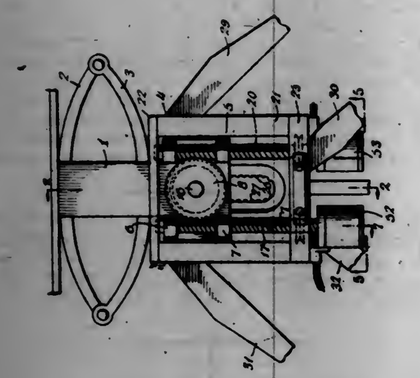
9. In combination with the cover of a poultry watering device, a disk overlying the cover, means interposed between the disk and the cover forming a pivotal point permitting depression of the disk in any direction, and connecting means securing the disk to the cover for swiveling motions.

1,917,372. TRAIN STOP AND CAB SIGNAL SYSTEM. ALFRED ERNEST HUDD, Surbiton, England, assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a Corporation of Delaware. Original application filed Aug. 1, 1928, Serial No. 296,652. Divided and this application filed Nov. 16, 1931. Serial No. 575,250. 4 Claims. (Cl. 246—63.)



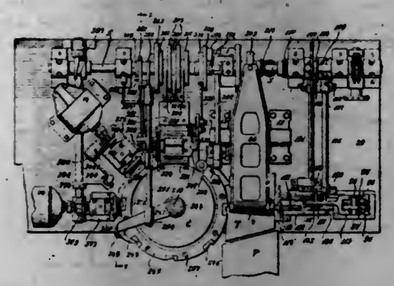
1. In a train stop system, vehicle equipment including cab signal lamps for indicating "clear", "caution", and "danger" traffic conditions, an automatic brake control device for initiating a brake application, an audible warning signal operable each time an automatic brake application is initiated, and a receiver relay and acknowledging key operable to maintain full control over said signals and brake control device.

1,917,373. SPRING FOR CARS. SVEND OLDER JAKOBSEN, Holevarde near Haugesund, Norway. Filed May 22, 1931. Serial No. 539,183. 3 Claims. (Cl. 267—2.)



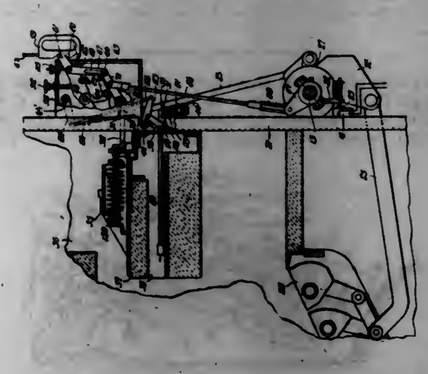
1. Springs for cars and other vehicles comprising in combination a frame, a plurality of toothed wheels connected with said frame, rods provided with helical teeth meshing with some of said toothed wheels, means for stopping and releasing the rotation of said rods at a certain predetermined position of said frame and means for stopping and releasing the rotation of said rods at a certain predetermined speed of the vehicle.

1,917,374. RECEPTACLE MAKING APPARATUS. ELLIS L. JONES, Long Island City, N. Y., assignor, by mesne assignments, to American Sealcone Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 21, 1928. Serial No. 301,010. 67 Claims. (Cl. 93—39.)



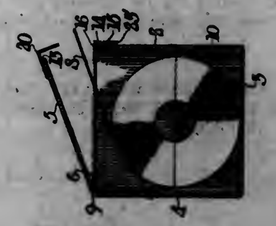
1. In receptacle forming apparatus, a mandrel, a plunger reciprocatory in a direction toward and away from the mandrel to clamp a receptacle blank intermediate the sides thereof to the mandrel, a pair of flaps shaped to conform to the contour of the mandrel arranged at opposite sides of the plunger and longitudinal axis of the mandrel and having reciprocatory movement in a direction toward and away from the mandrel in parallel relation to the clamping plunger and having movement in a direction toward each other, and means to yieldingly urge said flaps in a direction toward each other to wrap the opposite marginal portions of the blank about the mandrel under tension as said flaps are moved toward the mandrel, and means to secure the blank at the longitudinal marginal portions while on the mandrel.

1,917,375. AUTOMATIC STOKER. GEORGE A. KOHOUT, Chicago, Ill. Filed Apr. 24, 1929. Serial No. 357,703. 7 Claims. (Cl. 110—32.)



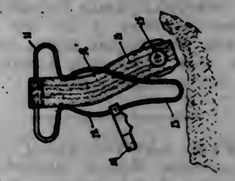
6. Operating mechanism for furnaces including a main drive unit, fuel feeding mechanism driven by said unit, means for forcing fluid into the furnace controlled by said drive unit, said last named means including mechanism cutting off said fluid forcing means only after the motor is stopped.

1,917,376. SHIPPING AND DISPENSING CONTAINER FOR SHEET MATERIAL. MAYNARD D. LEE and HENRY M. THOMAS, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 30, 1932. Serial No. 626,764. 9 Claims. (Cl. 206—58.)



1. A dispensing box for strip material comprising side, end and bottom walls, a cover for these walls, a reinforcing and cutting strip attached to an edge of the cover, said strip comprising a member L-shaped in cross section one part of which projects from said edge of said cover.

1,917,377. CLAMPING CLIP. INGA LEITER, née Koch, Berlin-Steglitz, Germany. Filed May 19, 1931, Serial No. 538,515, and in Germany May 24, 1930. 1 Claim. (Cl. 24—247.)



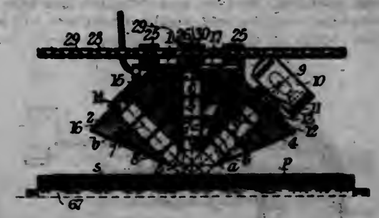
A button and loop fastener, comprising: a wire loop, a tab connected thereto, a button at the free end of said tab, and a resilient clasp for locking the button in the loop, said clasp being hinged at one of its ends to one leg of the loop and having means for separably snapping over the other leg of the loop, the part of the clasp extending between the two legs of the loop being arched, so as to increase the resiliency of the clasp and also increase its grip on the neck of the button.

1,917,378. GOLD ALLOY. LOUIS LENFANT, Paris, France, assignor to Cartier, Societe Anonyme, Paris, France, a Company of France. Filed July 18, 1931, Serial No. 551,793, and in France Mar. 10, 1931. 3 Claims. (Cl. 75—1.)

3. An alloy containing: gold, 65 per cent, copper, 19.5 per cent, silver, 14 per cent, cobalt 1 per cent and chromium 0.5 per cent.

1,917,379. AUTOMATIC GLOSS METER. EARL M. LOWRY, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 2, 1928. Serial No. 296,965. 5 Claims. (Cl. 88—14.)

1. In a machine for producing web material including means for guiding the web through a predetermined path, in combination with a gloss measuring device, a mount for the gloss measuring device comprising a slideway on which said device may move, said slideway positioning the gloss measuring device close to but out of contact with the web material, mechanism for moving the measuring device on the slideway relative to said web material, light emitting and receiving elements carried by said measuring device, the latter elements spaced angularly apart and being adapted to receive light reflected by the



web from the first mentioned element and means for indicating the gloss characteristics of the web material controlled by said light receiving elements.

1,917,380. PROCESS OF MAKING CELLULOSE NITRATE-ACYLATE. CARL J. MALM and JAMES D. COLEMAN, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 31, 1930. Serial No. 505,969. 9 Claims. (Cl. 260—101.)

1. A process of making cellulose nitrate-acylate which comprises acylating cellulose to form a cellulose acylate having less than 3 acyl groups and then further esterifying the resulting partially acylated cellulose with a nitrating agent only.

1,917,381. PREPARATION OF CELLULOSE NITRATE-ACYLATES. CARL J. MALM and CHARLES L. FLETCHER, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 31, 1930. Serial No. 505,970. 9 Claims. (Cl. 260—101.)

1. A process of making a cellulose nitrate-acylate which comprises the following distinct steps: (1) acylating cellulose to form a cellulose acylate having less than 3 acyl groups, (2) nitrating the partially acylated cellulose and (3) further acylating the cellulose, each step being carried out only upon substantial completion of that preceding it.

1,917,382. REFUSE DISPOSAL TRUCK. ALFRED F. MASURY, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed May 29, 1930. Serial No. 456,938. 4 Claims. (Cl. 280—106.5.)

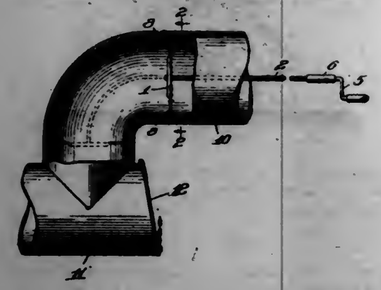


1. A vehicle construction comprising a radius rod journaled upon each side of the body, springs between the radius rods and the body, wheels journaled upon the rods, guide tracks, housings on each side of the trailer, cushioning means in the housings, means to mount the guide tracks in the cushioning means, and means on the rods engaging the guide tracks.

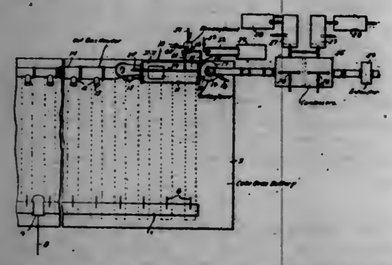
1,917,383. CLEANER FOR FURNACES, BOILERS, AND THE LIKE. RALPH MCCARTHY, Elgin, Ill. Filed May 7, 1930. Serial No. 450,836. 4 Claims. (Cl. 15—104.09.)

1. A cleaner for furnaces, boilers and the like, comprising a dished plate member, a flexible shaft attached

thereto and adapted to be extended to all parts of the structure regardless of bends or turns, weighted members swingably attached to said plate member, and means for giving said plate member and weighted members a rotary movement whereby said weighted members will strike the inner walls of the structure being cleaned to dislodge the soot and other foreign particles, said plate member being dished toward the operator and adapted to contact the lower inner surface of the structure being cleaned to scrape and remove the accumulated soot and foreign particles when the cleaner is being withdrawn.



1,917,384. APPARATUS AND PROCESS FOR CUTTING BACK PITCH. GREGORY EDWARD MCCLOSKEY, South Orange, N. J., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey. Filed July 31, 1929. Serial No. 382,375. 8 Claims. (Cl. 202—30.)



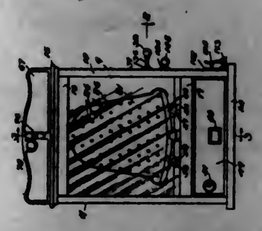
1. The method of distilling tar to produce a high melting point pitch and blending the pitch with a flux, which comprises distilling tar to pitch with a melting point of at least 300° F. by bringing it into direct contact with hot gases, continuously adding the pitch while hot to a body of the blended product formed by the blending of pitch and flux, continuously adding flux to the body at a plurality of widely separated points without first bringing the flux into direct contact with the pitch, agitating the body and continuously withdrawing the blended product therefrom.

1,917,385. AMUSEMENT MACHINE. JOHN F. MEYER, Pasadena, Calif. Filed Aug. 25, 1930. Serial No. 477,496. 10 Claims. (Cl. 194—83.)



1. In a coin-controlled amusement machine which has a plurality of indicating devices having indicia associated therewith, the combination therewith of means for operating said indicating devices whereby attention may be attracted to the indicia associated with the operated of the devices, said operating means including a manually movable coin chute, an operated portion, and means for latching said operated portion when it is moved into a predetermined position by engagement thereof with a coin in said coin chute and upon movement of the coin chute from normal position and for releasing said operated portion when said coin chute moves back into normal position.

1,917,386. AMUSEMENT MACHINE. JOHN F. MEYER, Pasadena, Calif. Filed Sept. 29, 1930. Serial No. 485,044. 15 Claims. (Cl. 194—2.)



8. In a machine of the class described, a member over which a coin may be passed, manually operable means for varying the path of movement of the coin over the member, coin entrapping means including portions for preventing direct movement of the coin into said coin entrapping means whereby the means for varying the coin movement must be manually operated to direct a coin into the coin entrapping means.

1,917,387. METAL CASTING FROM GELATIN RELIEFS. ALEXANDER MURRAY, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 11, 1932. Serial No. 610,745. 6 Claims. (Cl. 22—189.)

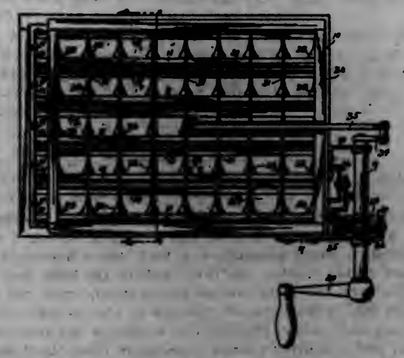
1. In the process of making a cast with an easily fusible alloy from a gelatin mold in which there is fine detail, the step which comprises coating the said mold before casting with a very thin layer containing an organic liquid selected from the group consisting of iso-amyl-phthalate, n-butyl phthalate, quinoline, iso-propyl lactate, anisaldehyde, cinnamaldehyde, and decahydronaphthalene.

1,917,388. METAL WALL TILE FASTENING. ANDREW W. NELSON, Terre Haute, Ind., assignor to Columbian Enameling & Stamping Co., Terre Haute, Ind., a Corporation of Indiana. Filed Oct. 8, 1931. Serial No. 567,652. 9 Claims. (Cl. 189—85.)



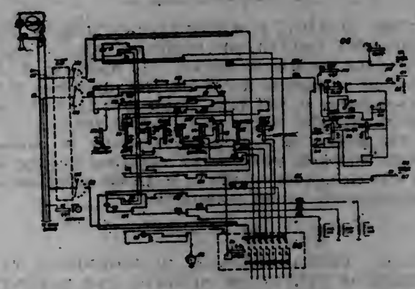
1. A metal wall tile having one side edge portion thereof turned out of the general plane of the tile, said tile having an inturned edge flange for engaging a fastening means, said flange being opposite said turned out portion, and a securing flange fastened to the wall facing surface of said tile adjacent to said turned out portion and between said portion and said edge flange for engaging a similar fastening means to secure said tile to a wall.

1,917,389. EGG SUPPORTING AND TURNING DEVICE DURING INCUBATION. MARLOW W. OLSEN, Harlan, Iowa, and HAROLD T. BAKER, New Brunswick, N. J. Filed Aug. 4, 1930. Serial No. 472,964. 5 Claims. (Cl. 119—44.)



1. In a device of the class described, a frame, a plurality of pairs of parallel spaced apart bars, end members holding and supporting each pair of bars together; each pair of bars adapted to support eggs during incubation, a means for rockably supporting each of said end members to said frame, a means for rocking said end members, a second frame slidably mounted on said first mentioned frame, egg engaging members secured to said second frame, and a means for reciprocating said second frame relative to said first frame.

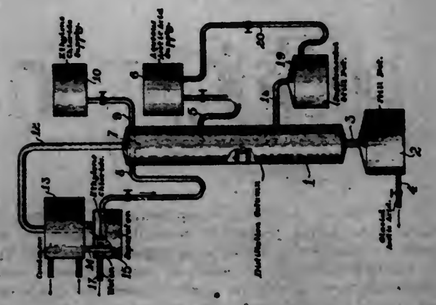
1,917,390. TELEPHONE SYSTEM. JOHN E. OSTLINE, Berwyn, Ill., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a Corporation of Delaware. Filed May 7, 1931, Serial No. 535,589. Renewed Sept. 9, 1932. 24 Claims. (Cl. 179—18.)



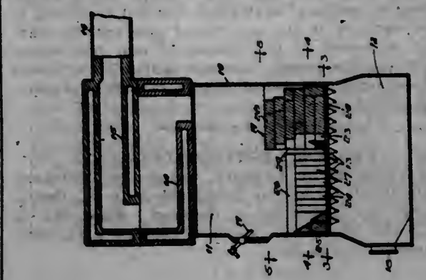
1. In an automatic telephone system wherein register senders are interposed between calling lines and the automatic switches, means for sending impulses from a register sender directly to the operating magnet of an automatic switch to operate the automatic switch to extend connection to a second automatic switch, and means for extending an operating circuit from the register sender by way of the operated switch directly to the operating magnet of said second switch, whereby the operating magnet of the second switch may be operated directly from the register sender to position the second switch.

1,917,391. PROCESS OF DEHYDRATING AQUEOUS ACETIC ACID. DONALD F. OTHMER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 15, 1930. Serial No. 428,625. 7 Claims. (Cl. 202—42.)

1. In the process of dehydrating aqueous acetic acid in which is employed a unitary column still having fractionating plates, the steps which comprise introducing an organic chloride water entraining liquid at the head of the column, introducing a mixture of water and acetic acid vapors into the column at a point approximately one-third of the way up the column, condensing and separating the vapors of the water and entraining liquid issuing from the column, and returning the entraining liquid to the top of the column.



1,917,392. APPARATUS FOR BURNING FUEL. WILLIAM H. PASCOE, Chicago, Ill. Filed Apr. 11, 1929. Serial No. 354,252. 5 Claims. (Cl. 158—4.)



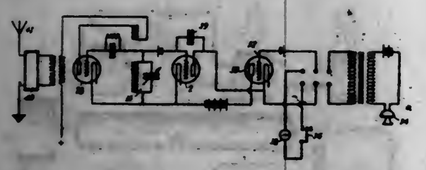
1. In an oil burner, a casing enclosing a fire box and a chamber, a grate disposed between said fire box and said chamber and permitting communication therebetween, means for directing a stream of atomized fuel into said fire box, and means for directing streams of air into said fire box from the sides thereof in an inwardly and rearwardly direction and in such manner that they will converge in the path of said fuel stream.

1,917,393. REENFORCING AND PROTECTING MOTION PICTURE AND SOUND FILM. NEWTON M. PERRINS, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 28, 1930. Serial No. 491,732. 7 Claims. (Cl. 88—16.2.)



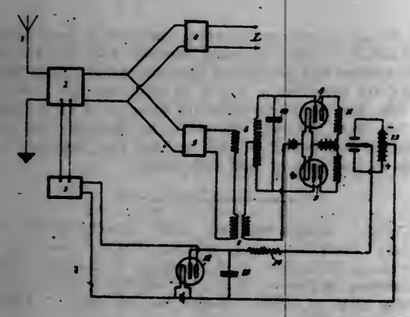
1. Motion picture positive film having along its length continuous threads of artificial silk of cellulosic composition integrally united to the surface of said film.

1,917,394. FREQUENCY MODULATION. WALTER VAN B. ROBERTS, Princeton, N. J., assignor to Radio Corporation of America, a Corporation of Delaware. Filed July 10, 1930. Serial No. 466,955. 1 Claim. (Cl. 179—171.)



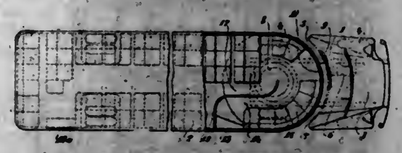
A thermionic oscillator comprising, an electron discharge tube and a frequency determining network, said oscillator generating a frequency depending in part upon the capacity between two points in said network, a second thermionic tube having an anode, cathode, an anode cathode circuit including resistance, a control electrode and a capacity between said anode and said control electrode, whereby the apparent capacity between the control grid and cathode of said tube depends upon the resistance in circuit between the anode and cathode of said tube, means for connecting the grid and cathode of said tube to said points in said network of said oscillator, a circuit for varying the resistance in the anode circuit of said second named tube comprising, a thermionic tube having its cathode connected to the anode of said second named tube and its anode connected to the cathode of said second named tube, and means for varying the anode to cathode impedance of said last named tube comprising, a source of modulating potential having one terminal connected to the grid electrode of said last named tube and the other terminal connected to the cathode of said last named tube, whereby the frequency of the oscillations produced by said oscillator is varied in accordance with said modulating potential.

1,917,395. FREQUENCY DETERMINING MEANS. WILHELM RUNGE, Berlin, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Oct. 2, 1929, Serial No. 396,895, and in Germany Oct. 15, 1928. 2 Claims. (Cl. 250—2.)



1. In apparatus to receive high frequency oscillations which are signal modulated and also modulated by a super-audible frequency, a receiver including a detector, a filter tuned to the super-audible frequency connected to said detector, thermionic means for producing potential variations representative of variations in the frequency of the super-audible frequency, a high frequency generator connected with said receiver, and means for utilizing the potential variations representative of changes in the super-audible frequency for controlling said high frequency generator.

1,917,396. TRACTOR BUS BODY. GORDON M. SCHANTZ and WILBUR P. DIEFFENDERFER, Allentown, Pa., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 7, 1931. Serial No. 555,783. 1 Claim. (Cl. 280—33.1.)



In combination with a tractor carrying an operator's cab and driving mechanism and a trailer having a body adapted to carry passengers, a fifth wheel mounting the trailer on the tractor, the front wall of the body and rear wall of the cab being curved substantially upon the axis of the fifth wheel, spaced windows in the curved walls of the cab and trailer, respectively, a door in the side of the body, and a guard to direct passengers from the doors in front of the windows.

1,917,397. PROTECTING THE SOUND TRACK ON SOUND MOTION PICTURE FILMS. PAUL C. SEBL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 28, 1930. Serial No. 491,714. 9 Claims. (Cl. 88—16.2.)



1. A sound and motion picture film band having along its length narrow ridges of width of the order of 0.010 inch.

1,917,398. METHOD FOR THE PRODUCTION OF LOW VISCOSITY CELLULOSE DERIVATIVES. CYRIL J. STAUD and THOMAS F. MURRAY, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed June 24, 1929. Serial No. 373,470. 6 Claims. (Cl. 260—102.)

1. The process of reducing the viscosity of cellulose aliphatic carboxylic esters which comprises treating the ester with an aqueous solution of potassium permanganate at approximately normal temperature.

1,917,399. PREPARATION OF HOMOGENEOUS MIXTURES OF CELLULOSE NITRATE AND ACETATE. CYRIL J. STAUD, Rochester, N. Y., and CHARLES E. WARING, Dayton, Ohio, assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 31, 1930. Serial No. 505,961. 6 Claims. (Cl. 106—87.)

1. The process of forming a homogeneous mixture of cellulose acetate and cellulose nitrate which comprises the dissolution of each in acetic acid, uniting the solutions, and precipitating the dissolved material.

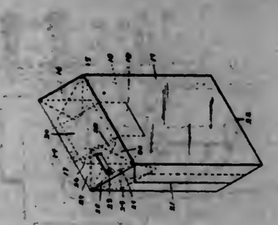
1,917,400. NITRATION OF CELLULOSE WITH A NITROGEN OXIDE. CYRIL J. STAUD and JAMES T. FUERS, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 31, 1930. Serial No. 505,965. 5 Claims. (Cl. 260—145.)

1. A process of nitrating cellulose which comprises treating the cellulose with a bath comprising a nitrating agent substantially consisting of a nitric oxide.

1,917,401. PREPARATION OF ACETONE SOLUBLE FIBROUS NITROACYLATE. CYRIL J. STAUD and RUSSEL H. VAN DYKE, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 31, 1930. Serial No. 505,967. 13 Claims. (Cl. 260—101.)

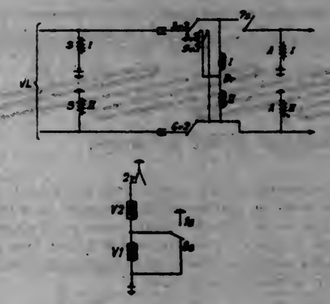
1. A process of making a fibrous cellulose nitrate-acylate which comprises treating cellulose with a fatty acid anhydride and a liquid oxide of nitrogen having a boiling point greater than 0° C. in an organic liquid in which the cellulose ester is insoluble.

1,917,402. MOISTUREPROOF CIGARETTE PACKAGE. LOMAS O. STEVENSON, Staatsburgh, N. Y. Filed Jan. 2, 1932. Serial No. 584,389. 2 Claims. (Cl. 229—51.)



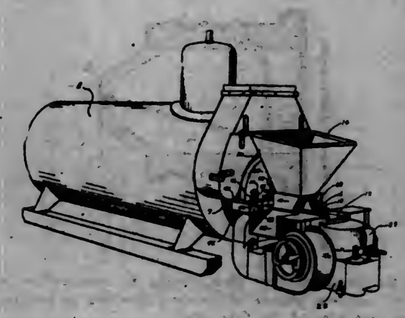
1. A moisture proof package of the class described, comprising an outer covering formed with a plain end, an embossed rib formed thereon, weakened lines at the base of said rib, and weakened lines leading therefrom to form flaps when severed along said weakened lines.

1,917,403. REPEATER. JOHANNES STICH, Berlin-Siemensstadt, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt near Berlin, Germany. Filed Dec. 7, 1931, Serial No. 579,857. and in Germany Mar. 2, 1931. 7 Claims. (Cl. 179—16.)



1. In an impulse repeater, an incoming and an outgoing line, an impedance comprising a plurality of sections normally bridged across said outgoing line, means responsive to impulses received over said incoming line for repeating like impulses over said outgoing line, and means for short-circuiting said impedance during each impulse train and for successively reconnecting the sections of said impedance across said outgoing line, one after the other, at the termination of the impulse train.

1,917,404. STOKER. HARRY M. SWINDLER, Dayton, Ohio, assignor to The James Leffel & Company, Springfield, Ohio, a Corporation of Ohio. Filed Feb. 7, 1930. Serial No. 426,480. 11 Claims. (Cl. 110—109.)

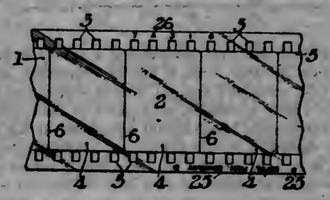


1. In combination, a boiler having a fire box, a retort mounted in said fire box in the lower half thereof, doors closing the upper half of the fire box, a fuel hopper mounted on said retort adjacent said doors, and means to slidably support said hopper with respect to the retort and doors to permit its withdrawal into an inoperative position and the opening of the doors.

1,917,405. CELLULOSE ESTER COMPOSITION. ERNEST R. TAYLOR, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 1, 1929. Serial No. 343,853. 12 Claims. (Cl. 106—40.)

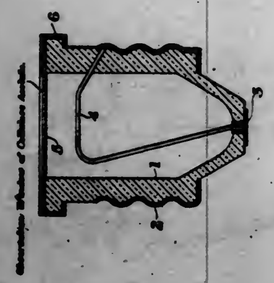
1. A composition of matter comprising a cellulose ester and a bromine substituted aryl ester of an aromatic sulphonic acid selected from the group consisting of 2:4:6 tribromophenyl p-toluene sulphonate and dibromocresyl p-toluene sulphonate.

1,917,406. VISIBLY MARKED PHOTOGRAPHIC FILM. ROBERT N. TITUS, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Original application filed Mar. 1, 1929, Serial No. 343,762. Divided and this application filed Jan. 20, 1932. Serial No. 587,748. 4 Claims. (Cl. 95—1.1.)
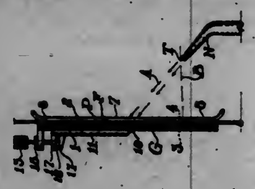


1. As an article of manufacture, a photographic film having an area adapted to receive a picture thereon, and a visible silver sulfide image on said film outside of said picture area.

1,917,407. ELECTRICAL FUSE PLUG. MILTON F. TUCKER, Providence, R. I., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 16, 1931. Serial No. 522,935. 9 Claims. (Cl. 200—121.)



1. An electrical fuse plug having an observation window of cellulose organic derivative sheeting in proximity to the fuse wire of the fuse plug.

1,917,408. FILM GATE FOR MOTION PICTURE APPARATUS. FORDYCE TUTTLE, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 1, 1930. Serial No. 485,640. 14 Claims. (Cl. 88—17.)



1. In a film gate for motion picture apparatus, the combination with a plate for supporting a film, an opening in said plate, a support extending across the opening and dividing the opening into two parts, a yoke carrying the ends of said support, said yoke being movably mounted on the gate.

1,917,409. TOOL HOLDER OR TOOL SET. CHARLES VALLONE, Buffalo, N. Y., assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Filed Mar. 27, 1931. Serial No. 525,673. 5 Claims. (Cl. 206—16.)

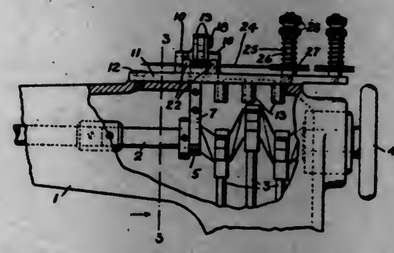


1. A wrench set unit comprising a set of wrenches arranged side by side, and a holder extending about and holding said wrenches against lateral separation and having parts which interabnt with parts of said wrenches to prevent substantial longitudinal movement of the wrenches in either direction in the holder, said holder comprising a skeleton wire body having bars extending across the edges of the several wrenches at one side of the set and being formed with bends providing individual open-sided holding seats for the several wrenches, and a skeleton wire retaining member which extends across the edges of the several wrenches at the opposite side of the set and is movable to open and close the holder, whereby one or more of the wrenches can be removed from the holder without disturbing the remaining wrenches when said retaining member is in open position.

1,917,410. PROCESS FOR THE DEHYDRATION OF ACETIC ACID. CHARLES S. WEBBER and CYRIL J. STAUD, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 26, 1929. Serial No. 395,456. 8 Claims. (Cl. 260—122.)

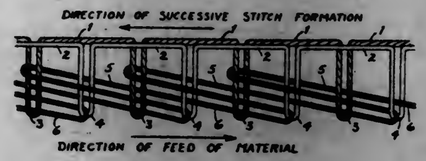
8. A process for dehydrating acetic acid which comprises treating dilute acetic acid with an oxide of sulfur and an oxide of nitrogen until nitrosyl sulfuric acid separates.

1,917,411. AUTOMATIC THREAD CLAMP FOR NEEDLE THREADS. ALBERT H. WEIS, Nyack, N. Y., assignor to The Metropolitan Sewing Machine Corporation, Nyack, N. Y., a Corporation of Delaware. Filed July 21, 1931. Serial No. 552,114. 11 Claims. (Cl. 112—255.)



1. In a sewing machine having a top arm and a top shaft, the combination of an automatic thread clamping means effective to clamp the threads just prior to the thread loops being cast off the loopers and to release the threads after the stitch has been drawn up to the bottom surface of the goods and comprising a swinging clamping device carried by said top arm and movable in a vertical plane, means co-operating therewith for clamping the threads, and rockable means for operating said clamping device.

1,917,412. STITCH. LAURENT H. WILD, Audubon, N. J., assignor to The Metropolitan Sewing Machine Corporation, Nyack, N. Y., a Corporation of Delaware. Filed Oct. 26, 1932. Serial No. 639,565. 5 Claims. (Cl. 112—262.)



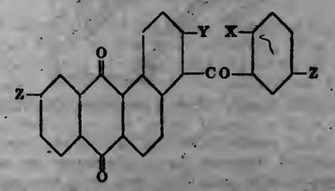
1. An improved stitch comprising a pair of parallel contiguous rows of needle stitches located in alternation on top of the work with the needle loops on the under side of the work in tandem relation, and a looper loop projecting through a pair of needle loops and through which looper loop a pair of needle loops pass.

1,917,413. PROCESS FOR MANUFACTURING CHEMICAL RESISTING ARTICLES. JOHANN KARL WIRTH, Berlin-Wilmersdorf, Germany. Filed Mar. 10, 1926, Serial No. 93,771, and in Germany Mar. 10, 1925. 8 Claims. (Cl. 18—55.)

1. A process of manufacturing chemically resisting bodies which consists in first making a pasty composition of a liquid condensation product of phenol and aldehyde mixed with an asbestos which has been purified with acid, then moulding in the cold said composition with light pressure into open moulds and then hardening the moulded composition in the same mould, so that the material of the resulting bodies though possessing absorbent properties is liquid-tight.

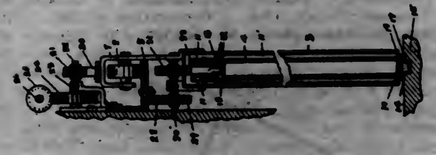
1,917,414. PROCESS OF PREPARING DIPHTHALOYLNAPHTHALENE COMPOUNDS AND NEW COMPOUNDS OBTAINABLE THEREBY. ARTHUR WOLFRAM, Frankfort-on-the-Main-Rodelheim, and EMIL HAUSDÖRFER, Hofheim in Taunus, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 24, 1930, Serial No. 447,106, and in Germany May 3, 1929. 8 Claims. (Cl. 260—61.)

3. As new products the compounds of the general formula:



wherein either Y represents hydrogen in which case X stands for the carboxylic acid group or Y and X represent jointly the group —CO— and Z represents hydrogen or chlorine.

1,917,415. ELEVATOR DOOR. CARL WOODRUFF, San Francisco, Calif. Filed Feb. 27, 1929. Serial No. 343,080. 2 Claims. (Cl. 20—19.)



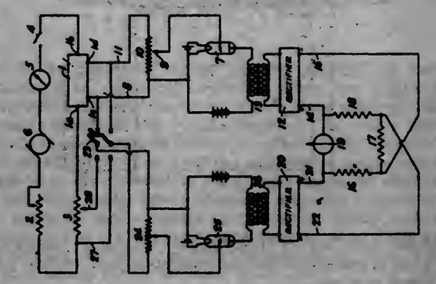
1. A pair of rolling doors arranged to jointly cover and uncover a doorway, one of said doors being slotted, and the other or inner of said doors arranged to roll into the slot, track means above the doors supporting them for rollable movement, and means for rolling the doors to open and close including gear mechanism with gears of different diameters whereby the last mentioned door will move faster than the slotted door in opening and closing the doorway, said mechanism positioned above the doors.

1,917,416. UNIVERSAL CENTER SUPPORT FOR VENETIAN BLIND HEAD RAILS. WILLIAM W. ZINGG, Chicago, Ill., assignor to The Columbia Mills, Inc., Saginaw, Mich., a Corporation of New York. Filed Mar. 20, 1933. Serial No. 661,690. 6 Claims. (Cl. 156—17.)



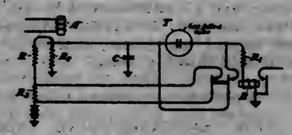
1. A universal center support for Venetian blinds comprising a bracket formed with top, bottom, and back walls, and openings in the top and back walls to permit the bracket being secured to a suitable support.

1,917,417. METHOD AND APPARATUS FOR MEASURING ALTERNATING ELECTROMOTIVE FORCES AND IMPEDANCES. THEODOR ZUSCHLAG, West Englewood, N. J., assignor to Magnetic Analysis Corporation, Long Island City, N. Y., a Corporation of New York. Filed Aug. 6, 1932. Serial No. 627,751. 10 Claims. (Cl. 175—183.)



1. The method of measuring the amplitude of an alternating potential which comprises rectifying two alternating potentials of which at least one is derived from that to be measured, adjusting the constants of the rectifying circuits until the rectified potentials are equal and then substituting for one of the alternating potentials a known alternating potential and without disturbing the constants of the rectifying circuits varying the known potential until the magnitudes of the rectified voltages are returned to equality whereby the amplitude of the unknown alternating potential is equal to the so adjusted known alternating potential.

1,917,418. ELECTRIC DELAY CIRCUITS. MILTON L. ALMQUIST and ALBERT C. THOMPSON, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed June 18, 1931. Serial No. 545,302. 2 Claims. (Cl. 175—320.)

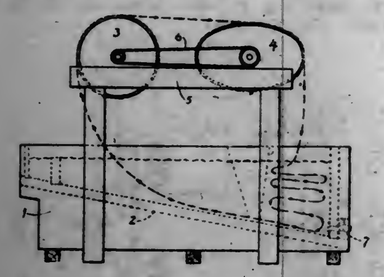


1. A relay, a condenser, a charging circuit for said condenser controlled by said relay, two resistances in said charging circuit for limiting the potential applied thereto, a discharge circuit for said condenser, a gas filled tube in said discharge circuit adapted to be broken down after said condenser is charged, a second relay in said discharge circuit operated by the discharge of said condenser, means controlled by said second relay for short-circuiting the tube in said discharge circuit, and means controlled by said second relay for short circuiting one of said resistances in said charging circuit.

1,917,419. APPARATUS FOR TREATING TEXTILE FABRICS. JOHN H. ANDRESEN, Glen Rock, N. J. Filed Jan. 14, 1932. Serial No. 586,571. 2 Claims. (Cl. 8—19.)

1. In an apparatus for treating textile fabrics, a vat, and a plurality of transversely extending partitions di-

viding said vat into a series of compartments, each of said partitions comprising a vertical portion, a portion lying in a plane inclined with relation to said vertical



portion and out of longitudinal alinement therewith, and an intermediate portion connecting said vertical and inclined portions.

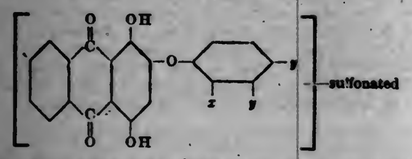
1,917,420. APPARATUS FOR GRINDING WOOD. CARL OTTO BACHMAN, Franklin, Ohio, assignor, by direct and mesne assignments, to The Mead Research Engineering Company, Dayton, Ohio, a Corporation of Ohio. Filed Sept. 24, 1927. Serial No. 221,741. 21 Claims. (Cl. 83—75.)



1. Apparatus of the character described, comprising a grinding stone, and a charg-receiving pocket associated with said stone mounted for angular adjustment about a longitudinal axis of said pocket relative to the longitudinal axis of said grinding stone.

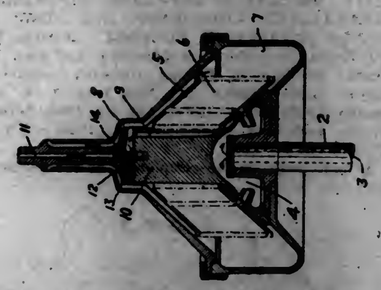
1,917,421. NEW ANTHRAQUINONE COMPOUNDS. FRITZ BAUMANN, Leverkusen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed June 4, 1931, Serial No. 542,204, and in Germany June 4, 1930. 10 Claims. (Cl. 260—58.)

1. The new compounds having in the free form the general formula:—



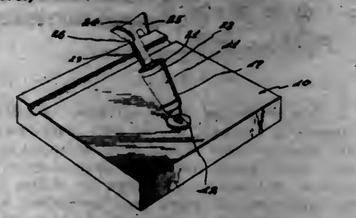
wherein a stands for hydrogen or alkyl, one y means hydrogen, alkyl, halogen, the carboxylic acid group, a carboxylic acid ester group or an acyl group, the other y means hydrogen, said compounds being in form of their sodium salts orange to brown crystals, dissolving in water with an orange to yellowish-brown coloration.

1,917,422. ARRANGEMENT IN CONNECTION WITH CENTRIFUGAL BOWLS. NORE EINAR BERGNER, Stockholm, Sweden, assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 27, 1932, Serial No. 589,103, and in Sweden Feb. 9, 1931. 7 Claims. (Cl. 233—46.)



1. The combination with a "closed" centrifugal bowl provided with a central outlet for separated liquid extending along substantially the axis of the bowl and of such restricted diameter as to discharge the separated liquid substantially coincident with such axis and a central element provided with a number of receiving and conveying channels for separated liquid extending substantially parallel to, but spaced a substantial distance from, the axis of the bowl, of means providing a number of passages connecting said liquid-receiving and conveying channels with said central liquid-outlet channel.

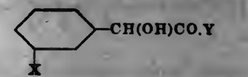
1,917,423. FOUNTAIN PEN DESK SET. ANDREAS BIENENSTEIN, Toledo, Ohio, assignor to Conklin Pen Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 20, 1930. Serial No. 422,129. 11 Claims. (Cl. 120—108.)



1. In a desk set, a pen supporting receptacle for a fountain pen comprising means for receiving and supporting the pen writing end and means connected thereto but spaced therefrom for supporting the barrel of the pen, said latter means comprising an arcuate member resiliently embracing the major portion of the pen barrel circumferentially of the latter.

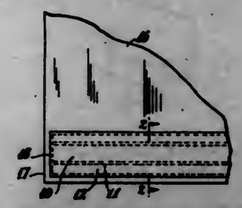
1,917,424. PROCESS OF PREPARING COMPOUNDS, OF THE 1-PHENYL-2-AMINO-ALCOHOLS-1 SERIES HYDROXYLATED IN THE PHENYL RADICAL. MAX BOCKMÜHL, GUSTAV EHRHART, and LEONHARD STEIN, Frankfort-on-the-Main, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed June 2, 1931, Serial No. 541,738, and in Germany June 13, 1930. 3 Claims. (Cl. 260—128.5.)

1. The process which compurises causing hydroxylamine to act upon a compound of the following general formula



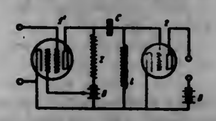
wherein X stands for an aralkoxy group and Y stands for an alkyl group, and subjecting the oxime thus obtained to a reduction process.

1,917,425. WRINKLEPROOF RUG EDGE REENFORCING BINDING. HARRY BORDEN, Brooklyn, N. Y. Refiled for abandoned application Serial No. 467,834, filed July 14, 1930. This application filed July 29, 1932. Serial No. 626,185. 5 Claims. (Cl. 154—49.)



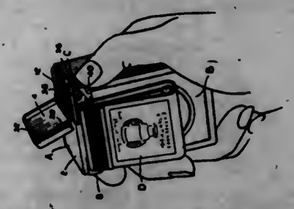
1. In a wrinkle proof rug edge reenforcing binding, a cloth casing for a flexible strip consisting of a narrow strip attached along its edges along the center of a broad strip so that the casing may be attached on a single thickness edge along the edge of the bottom side of a rug.

1,917,426. MULTISTAGE AMPLIFIER. PAUL BORIAS, Paris, France, assignor to Societe Francaise Radio Electrique, Paris, France, a Joint-Stock Company of France. Filed Feb. 17, 1928, Serial No. 254,988, and in France Mar. 8, 1927. 1 Claim. (Cl. 179—171.)



In combination a vacuum tube having a cathode, inner grid, outer grid and an anode, an input circuit including the cathode and said outer grid, an output circuit comprising the anode, a resistance having a high value, a current source and said cathode all in series, means for connecting said inner grid to said current source, a second vacuum tube having input and output circuits, said input circuit including a reactance adapted to act as a coupling device between said first mentioned tube output circuit and said second mentioned tube input circuit, means for connecting the cathode of said first mentioned tube to one end of said coupling device and means comprising another reactance for connecting the anode of said first mentioned tube to the other end of said coupling device.

1,917,427. PROTECTIVE DEVICE FOR PACKAGES OF CIGARETTES. HARRY BRUDNEY, New York, N. Y. Filed Jan. 31, 1930. Serial No. 424,804. 5 Claims. (Cl. 206—41.)



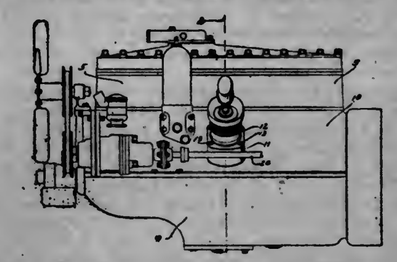
1. A protective device for a package of cigarettes comprising a top portion, depending leg portions, a single depending side wall located outside of the package of cigarettes on one side only of said protective device, an openable closure, resilient means tending to open said closure, and a relatively freely movable manually operable trigger arm formed by an extension of said side wall outside of the package of cigarettes for controlling the opening of said closure by said resilient means.

1,917,428. AIRCRAFT. VINCENT J. BURNELLI, New York, N. Y., assignor, by direct and mesne assignments, to The Uppercu-Burnelli Corporation, a Corporation of Delaware. Filed Dec. 17, 1927, Serial No. 240,850. Renewed Nov. 23, 1932. 16 Claims. (Cl. 244—12.)



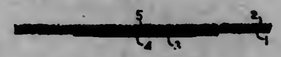
1. In an airfoil, a central section comprised of and terminating in front and rear main spars, and a lateral compression rib, said rib comprised of spaced rigid vertical elements abutting and rigidly engaging the spars with the spars and said rib being of substantially identical vertical extent at their abutting junction, a hollow track disposed in the compression rib terminating in an opening in the spar, guide rollers disposed near the opening of the track, an arm disposed in the hollow track, rollers near an end of the arm bearing against the inner surfaces of the track, means for moving the arm in the track, and an edge section rigidly mounted on said arm.

1,917,429. COMPRESSOR DRIVE APPARATUS. NIELS A. CHRISTENSEN, Cleveland, Ohio. Filed Mar. 15, 1929. Serial No. 347,220. 2 Claims. (Cl. 123—2.)



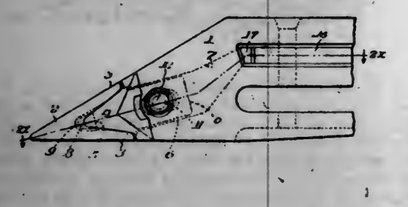
1. In an automotive engine, the combination with the engine crankcase and cylinders, of an engine crank shaft having diametrically disposed counterweights and an eccentric formed thereon between one of the intermediate bearing portions and an adjacent crank, said eccentric being disposed diametrically with respect to said adjacent crank, a compressor cylinder mounted on the engine at an angle to the engine cylinders and freely communicating with the crankcase of the engine, a piston working in said cylinder, and means including a connecting-rod operatively connecting said piston with said eccentric.

1,917,430. CARPET JOINT AND UNITING STRIP THEREFOR. FRANK W. CLARK, Sanford, Me., assignor to Sanford Mills, Sanford, Me., a Corporation of Maine. Filed Oct. 28, 1931. Serial No. 571,551. 2 Claims. (Cl. 154—42.)



1. A uniting strip for carpet sections composed of a plurality of superimposed layers of thin woven netting arranged in echelon transversely of the strip with all the layers extending through the longitudinal central zone and but one of said layers extending through each edge zone and flexible adhesive binding material impregnating the composite strip, filling the pores of the netting and securing the said layers together thus to present a feather edged strip the strength and thickness of which decreases from the maximum at the central zone to a minimum at the edges.

1,917,481. EXCAVATING TOOTH BASE WITH LATERALLY INTERLOCKED POINTS. JOHN O'FALLON CLARK, St. Louis, Mo., assignor, by mesne assignments, to American Manganese Steel Company, a Corporation of Maine. Filed Dec. 22, 1928. Serial No. 327,778. 9 Claims. (Cl. 37—142.)

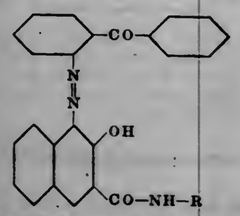


1. A replaceable point excavator tooth, comprising a base bifurcated to form two point-engaging furcations, said base having upon each of its members vertically presented point-seating faces converging forwardly to substantially an apex; and a point having jaws diverging rearwardly from laterally spaced crotches and substantially conforming to said apexes and to said seating faces; said base having at its apex, in vertical longitudinal planes spaced inwardly from its outer lateral faces, lugs for laterally interlocking it with the point; and said point having, intermediate of its laterally spaced crotches, a recess providing faces which receive the lateral faces of said lugs; the vertical transverse dimensions of the lugs and the recess being sufficient to provide laterally presented interlocking faces, a material distance in rear of the apex of the base as well as forward thereof.

5. In a replaceable point tooth, a point member having diverging jaws and web means connecting said jaws, and a base member having a wedge-shaped nose adapted to fit between the jaws of the point member and slotted to permit the point member to be placed in position upon the base; said point member having rearwardly presented recesses; said nose having upon its forward end, lugs adapted to enter said recesses; said web means comprising two vertical longitudinal webs; and said nose comprising two outer walls and an intermediate wall.

1,917,432. WATER-INSOLUBLE MONOAZODYESTUFF. HEINRICH CLINGESTEIN, Cologne, and KARL DORMAIER, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 4, 1929, Serial No. 411,670, and in Germany Dec. 5, 1928. 7 Claims. (Cl. 260—95.)

1. As new products the monoazodyestuffs of the general formula:



wherein R stands for an aromatic nucleus of the benzene or naphthalene series and wherein the nuclei may be substituted by halogen, alkyl or alkoxy, said dyestuffs being in their dry pulverized form red powders, insoluble in water, soluble in sulfuric acid and yielding upon reduction with stannous chloride and hydrochloric acid the starting orthoamino-benzophenone and a 1-amino-2,3-hydroxynaphthoic acid arylide, and dyeing when produced on the fiber red shades which are distinguished by an excellent fastness to washing, chlorine and kier boiling.

1,917,433. ANGLE MARKING MEANS. EDWARD P. CRESSLER, Newton, Kans. Filed Feb. 5, 1929. Serial No. 337,681. 16 Claims. (Cl. 250—84.)



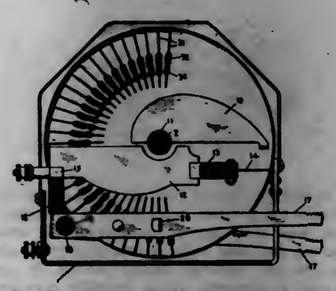
1. An angle indicating marking device for X-ray films comprising a body-portion, projections extending inwardly from opposite sides at the top and bottom of said body-portion, said projections being in alinement and producing markings on the film measuring the angle at which the X-rays impinge thereon.

1,917,434. BARGE. REIMAR DADE, Lubeck, Germany, assignor to Lübecker Maschinenbau Gesellschaft, Lubeck, Germany. Filed May 25, 1931, Serial No. 539,860, and in Germany June 21, 1930. 1 Claim. (Cl. 114—32.)



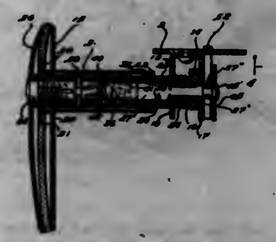
A barge including a buoyant body provided with a central hole passing completely through the body, an upper deck for carrying the load comprising two plates arranged in abutting relation amidship for covering the hole and rotatable about axes running parallel to the longitudinal plane of the ship so that the adjacent longitudinal portions can swing downwardly into the hole for dumping purposes, locking means on the upper surface of the body for releasably holding the plates parallel, and the longitudinal pivotal axes being located slightly nearer the abutting edges of the plates than the remote edges thereof so that when the locking means is released the plates will move to a dumping position automatically due to the weight of the load and after dumping will return to normal position.

1,917,435. ADJUSTABLE CAM MECHANISM. NOEL DEISCH, Washington, D. C., assignor of one-half to Thomas E. Stone, Jr., New York, N. Y. Original application filed Aug. 20, 1930, Serial No. 476,641. Divided and this application filed July 26, 1932. Serial No. 624,888. 14 Claims. (Cl. 74—14.)



1. An adjustable cam mechanism, including a support, a flexible member comprising the working face of the cam, retaining members provided with means for supporting said flexible member at a plurality of points so that one edge of said flexible member is free for contacting a cam follower, said retaining member being mounted on said support solely by friction means whereby they may be successively or simultaneously shifted to change the curvature of said cam.

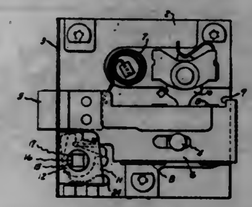
1,917,436. DOORLATCH MECHANISM. WILLIAM C. DEVERBAUX, Detroit, Mich. Filed July 28, 1930. Serial No. 471,368. 21 Claims. (Cl. 70—91.)



1. In a door latch mechanism, a bolt retracting member, a socket rigid with said member, and an operating handle having a stem extending freely through said member, a sleeve movable longitudinally of the stem into and out of said socket, and key actuated means for moving the sleeve.

21. In a door latch, a rollback, an operating handle having a stem extending freely through the rollback, a stub shaft surrounding the stem within the rollback, said stub shaft being free relative to the stem and fixed to the rollback, and means for detachably connecting the handle to the stub shaft including a member movable longitudinally of the stem, and key actuated means associated with the handle for moving the member.

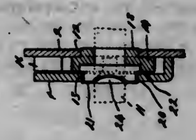
1,917,437. DOORLATCH CONSTRUCTION. WILLIAM C. DEVERBAUX, Detroit, Mich. Filed Oct. 31, 1930. Serial No. 492,563. 2 Claims. (Cl. 292—354.)



1. In a door latch, a rollback comprising three sections arranged side by side, having square-shaped openings adapted to be in registration so as to receive the stem of an operating handle and having substantially identical arm portions adapted to be in registration for engagement with a bolt shank, the arm portion of one roll-back section being out of alignment with the arm portions of the other sections when the opening in said section is in registration with the openings in the other sections and adapted to be in alignment with the arm portions of the other sections when the opening aforesaid in said section is out of registration with the openings in the other sections.

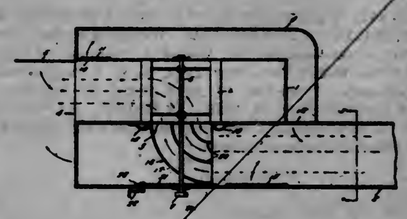
1,917,438. DOORLATCH MECHANISM. WILLIAM C. DEVERBAUX, Detroit, Mich. Filed Oct. 10, 1932. Serial No. 637,175. 12 Claims. (Cl. 292—169.)

1. In a door latch, a handle stem, a one piece rollback on the stem, and means for taking up play between the rollback and stem including means rotatable in a cover plate for the rollback and having oppositely extending portions, one of said portions having an opening receiving the stem and lugs in the edges of the opening under



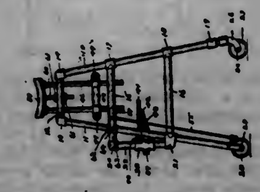
tension and pressing against the stem, and the other of said portions engaging the rollback and having lugs interlocked therewith.

1,917,439. MINE VENTILATING APPARATUS. LORENZO J. DRIGGS, Altoona, Pa. Filed Jan. 30, 1932. Serial No. 589,943. 4 Claims. (Cl. 98—50.)



1. A ventilating apparatus comprising, in combination, a flume, a casing communicating with the flume, a fan operable in the casing for drawing air from the flume into the casing, control means for selectively causing the air to be drawn into the casing from different directions into the flume, said means including an arcuate conduit mounted for rotation in the flume and having one end communicating with said flume and its other end communicating with the casing, said means further including arcuate guide vanes in the conduit, and means for actuating the control means, the second named means comprising a gear fixed to the conduit, a crank mounted for rotation on the flume, and a gear fixed to the crank and engaged with the first named gear for operatively connecting the crank thereto.

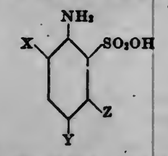
1,917,440. WALKING CRUTCH. ADOLF FINKBEINER and ELIZABETH MILDRED FINKBEINER, Woodmont, Conn. Filed Feb. 17, 1932. Serial No. 593,438. 3 Claims. (Cl. 155—22.)



2. A walking crutch comprising a frame composed of front and rear legs secured together at their tops by top side braces, fixed side braces secured to said front and rear legs, adjustable rear braces secured to said rear legs, an adjustable and removable front brace secured to said front legs, a seat post secured to said adjustable rear braces, a seat supporting member adjustably mounted on said seat post, a seat hinged thereto and adapted to be raised and lowered, and a pivoted brace for said seat.

1,917,441. NEW ORTHO-ANILINE-SULFONIC ACID. ERICH FISCHER, Bad Soden-on-the-Taunus, and ALBERT KISSLING and HERBERT KRACKER, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Oct. 14, 1930, Serial No. 488,698, and in Germany Oct. 24, 1929. 6 Claims. (Cl. 260—129.)

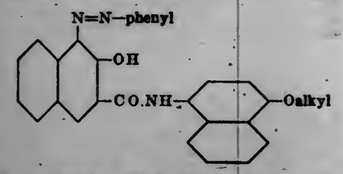
5. The compounds of the following general formula:



wherein X stands for chlorine, methyl, methoxy or phenoxy, Y represents chlorine, methyl or methoxy, and Z means chlorine or methyl, said products being colorless powders soluble in water.

1,917,442. WATER-INSOLUBLE AZO DYESTUFF AND FIBER DYED THEREWITH. WILHELM FITZKY, Frankfort-on-the-Main-Hochst, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 14, 1929, Serial No. 340,023, and in Germany Feb. 18, 1928. 18 Claims. (Cl. 260—95.)

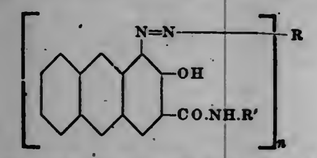
1. As new products the water-insoluble azo dyestuffs of the following general formula:



wherein the phenyl residue must contain at least one halogen or a nitro group which dyestuffs yield reddish-brown to garnet dyeings of a remarkable fastness to light.

1,917,443. AZODYESTUFF. SEBASTIAN GASSNER and WILHELM MEISER, Leverkusen-I. G.-Werk, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Sept. 29, 1931, Serial No. 565,928, and in Germany Oct. 22, 1930. 6 Claims. (Cl. 260—86.)

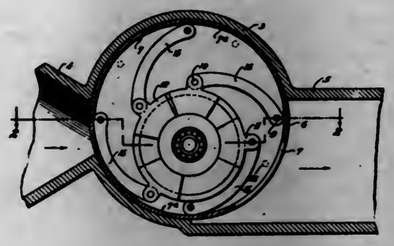
1. As new products asodyestuffs of the probable general formula:



wherein "n" stands for one of the numbers 1 or 2, R stands for a radical of a diazotisation component suitable for producing asodyestuffs, R' stands for a benzene or naphthalene nucleus and wherein R and R' may be substituted by substituents selected from the group consisting of halogen, alkyl, alkoxy, the nitro group, the nitrile group, the carboxylic acid amide group, the sulfone-amide group and a substituted amino group.

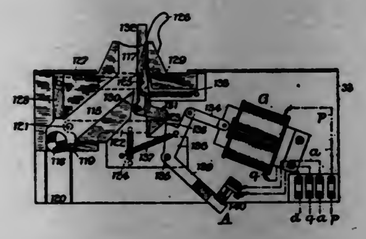
1,917,444. SUPERCHARGER. DAVID GREGG, Caldwell, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a Corporation of New Jersey. Filed Mar. 13, 1931. Serial No. 522,491. 8 Claims. (Cl. 230—154.)

1. In a device of the class described, a tubular member, a rotatable shoe associated therewith, a vane pivotally connected at one end to said tubular member and at the other end to said shoe, means for mounting said shoe for rotation about an axis eccentric to the axis of said tubular member, and means for rotating said shoe about said eccentric axis at a non-uniform speed in response



to uniform rotation of said tubular member, said means comprising an annular track along which said shoe may slide with a speed which varies periodically in accordance with the angularity of said vane with respect to said shoe and tubular member, said shoe having a projection thereon forming with the track a tortuous sealing passageway.

1,917,445. COIN FREED AUTOMATIC SHOOTING MACHINE. FRIEDRICH CLAUS HEINRICH HANSEN, Hamburg, Germany, assignor to Nier & Ehmer, Beierfeld, Germany. Original application filed June 26, 1929, Serial No. 373,844, and in Germany Feb. 27, 1929. Divided and this application filed May 29, 1930. Serial No. 457,315. 4 Claims. (Cl. 194—9.)

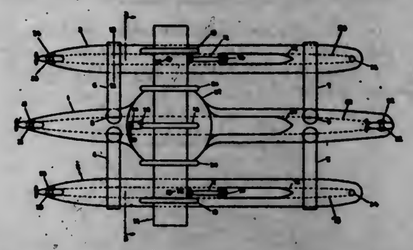


1. In an electrically operated, cinematographic shooting machine comprising a target piercing mechanism and rifle with hand-operated loading mechanism and trigger, the combination with an operating magnet for said target piercing mechanism, of a switch arranged in the circuit of said operating magnet, a closing magnet for said switch, a coin operated switch in the circuit of said switch closing magnet, and a two-way switch operative to complete the circuit of said switch closing magnet when the loading mechanism is operated and to complete the circuit of said operating magnet on the trigger being pulled.

1,917,446. THREE-HULLED AEROSHIP. SAMUEL B. HITT, Elyria, Ohio. Filed Nov. 21, 1932. Serial No. 643,629. 21 Claims. (Cl. 114—66.5.)

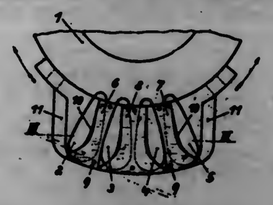
1. In an aeroship or similar craft, a center hull, an outer hull on each side of the said center hull, spanners connecting the said outer hulls to the said center hull forward and aft, a cross bridge carried by the said center hull extending over the said outer hulls, links connecting the

said outer hulls to the said cross bridge, side sponsons on the said center hull, a cabin built integral with the said center hull and the said cross bridge, the said cabin



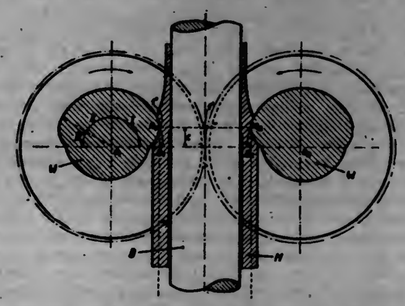
construction including cabin side portions overhanging the sides of the said center hull and bottoms shaping into the lower surfaces of the said side sponsons.

1,917,447. LUBRICATING ARRANGEMENT FOR USE IN BEARINGS. EMIL KOCH, Mulheim-Ruhr, Germany. Filed Apr. 17, 1930, Serial No. 445,140, and in Germany Apr. 24, 1929. 12 Claims. (Cl. 308—36.)



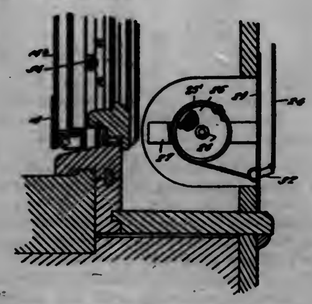
8. A lubricating arrangement for use in axle bearings of the type having a lubricant container disposed below the axle bearing, a scooping vessel provided with trough-shaped recesses and arranged to rotate with the axle and to dip into and convey the lubricant from the container to the portions of the bearing to be lubricated, and the outer walls of the outer recesses being of lesser height than the walls of the intermediate recesses.

1,917,448. PILGERING ROLLING MILL. FRITZ KOCKS, Dusseldorf, Germany, assignor to the Firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Filed Feb. 16, 1931, Serial No. 516,161, and in Germany May 26, 1930. 1 Claim. (Cl. 8—14.)



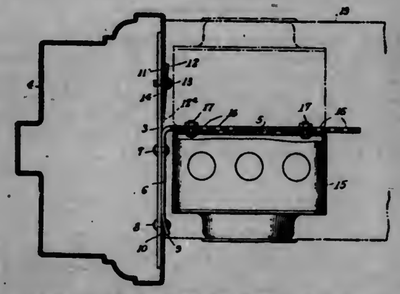
A roll pass for pilgering rolling mills, characterised in that the pass at the "mouth" of the pilger is given such an elliptical shape in radial section through the roll that the pass of the roll is circular in the cross-section which is perpendicular to the axis of the work at the point where the principal rolling operation is carried out by the pass, the ellipticity of the ellipse, the major axis of which is perpendicular to the axis of the roll, decreasing continuously from the beginning of the pilgering mouth to the beginning of the polishing surface and the ellipse changing to circular shape on the transition into the polishing pass.

1,917,449. ROLLER SHADE. HERMAN H. KOLLER, Amsterdam, N. Y. Filed July 25, 1932. Serial No. 624,611. 7 Claims. (Cl. 156—16.)



6. In a drum mount, a drum supporting bracket, a tubular tape guide, and a face plate supporting said bracket and said guide.

1,917,450. OUTLET BOX SUPPORT. WILLIAM L. LADEMANN, New York, N. Y. Filed Sept. 21, 1926. Serial No. 136,768. 15 Claims. (Cl. 247—21.)

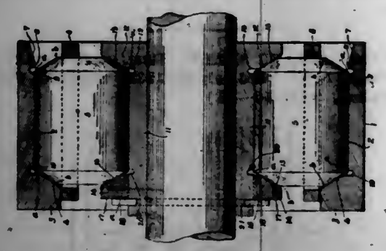


11. Means for mounting an outlet box, on a hollow steel frame having flanges extending toward each other from the side walls of the frame but leaving an elongated opening between the flanges comprising, a plate to be received in and extend across the open side of the frame with its end portions in engagement with the inner surfaces of the flanges of the frame, securing means on the plate for engaging one flange of the frame, adjustable securing means on the plate for engaging the other flange of the frame, and means extending from the plate substantially at right angles thereto for supporting a box at different distances from the plate.

1,917,451. PROCESS FOR THE PRODUCTION OF MOLDED ARTICLES FROM PLASTIC COMPOSITIONS. HANS LEBACH and JOHANN KARL WIRTH, Berlin-Altglienicke, Germany, assignors to Siureschutz Gesellschaft m. b. H., Berlin-Altglienicke, Germany. Filed July 22, 1930, Serial No. 469,020, and in Germany Apr. 9, 1929. 4 Claims. (Cl. 18—55.)

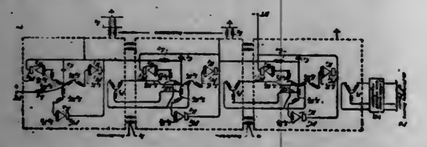
1. Process for the production of molded articles from plastic compositions, artificial resins or the like substances comprising coating the mold with substances impregnated with chemicals to destroy the substances at higher temperatures, drying the coating, applying the plastic composition, and hardening same in the heat.

1,917,452. ROLLER BEARING. CHARLES IRA LOTT, Du Bois, Pa., assignor of sixty per cent to W. G. Brown and W. W. Milliron, Du Bois, Pa. Filed Dec. 2, 1929. Serial No. 411,034. 1 Claim. (Cl. 308—212.)



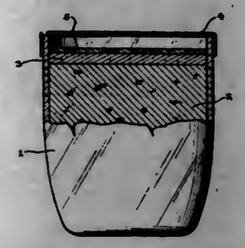
In a roller bearing adapted to operate under a substantial axial thrust, inner and outer cylindrical race rings forming a raceway for rollers, each of said race rings being provided with a flange at one end extending inwardly in said raceway, said flanges having conical surfaces adjacent the rollers, a plurality of rollers in said raceway, each having a cylindrical portion and conical ends, the cylindrical portions contacting with the cylindrical race rings and the conical ends contacting with the conical surfaces of the flanges, the race rings and their flanges having portions cut away at their junction forming annular grooves adjacent the junction of the cylindrical and conical portions of the rollers, whereby said junction of the rollers is free of contact with the race rings under all conditions of operation.

1,917,453. SYSTEM FOR PRODUCING HIGH VOLTAGE DIRECT CURRENTS. DE LOSS K. MARTIN, West Orange, N. J., assignor to American Telephone & Telegraph Company, a Corporation of New York. Original application filed Sept. 25, 1925, Serial No. 58,662. Divided and this application filed June 1, 1929. Serial No. 367,811. 3 Claims. (Cl. 175—363.)



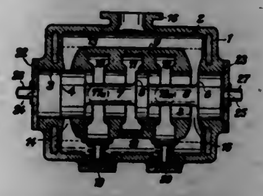
3. A system for transforming three-phase alternating current of low voltage to direct current of high voltage, comprising a plurality of transformers each capable of passing impressed three-phase alternating current, said transformers being employed for successively increasing the potential of the impressed current to any desired value, each transformer having three-phase primary windings and six-phase secondary windings, the secondary windings of each transformer being connected in series in pairs to produce composite three-phase secondary windings, the primary windings of each transformer after the first transformer being connected to taps on the secondary windings of each preceding transformer, said taps being so placed that the primary windings of all transformers will receive voltages in the same phase, and vacuum tube rectifying means associated with each transformer for rectifying the three-phase current in the secondary of each transformer, the potential of the rectified current being as many times the potential produced by one of said transformers as there are transformers employed in the system, the windings of each transformer being insulated from each other and from the core on which they are wound for the potential developed in said transformer, the terminals of the high voltage direct current being insulated from each other for a potential which is as many times the potential for which the windings of a single transformer are insulated as there are transformers in the system.

1,917,454. MOISTURE TAKE-UP FOR JELLIES AND CONSERVES. LINCOLN CHARLES MAZZOLA, Geneseo, N. Y. Filed Nov. 11, 1931. Serial No. 574,421. 5 Claims. (Cl. 99—8.)



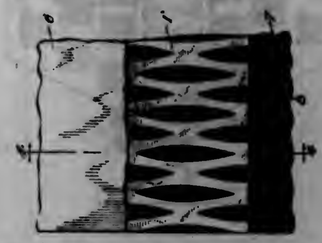
3. The combination with a container holding jelly or analogous conserve and a paraffin seal on top of the jelly, of a layer of absorbent material covering the seal and adapted to take up moisture as the same is separated from the conserve, and a closure covering the top of the container.

1,917,455. PRESSURE FLUID CONTROL VALVE. OTTO MEYER, Nuremberg, Germany, assignor to Firm: Armaturen- und Maschinenfabrik Akt. Ges., Vorm., J. A. Hilpert, Nuremberg, Germany. Filed Mar. 23, 1932, Serial No. 600,742 and in Germany Mar. 28, 1931. 4 Claims. (Cl. 103—245.)



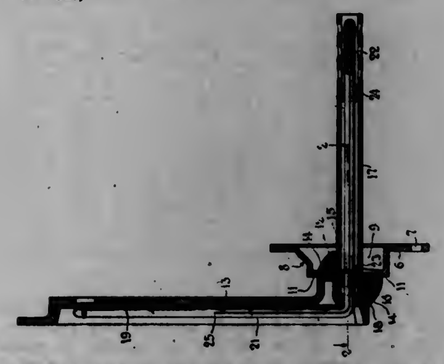
1. For controlling the alternate supply to and withdrawal of compressed air from a pipe system comprising two pipes through which the compressed air is supplied and withdrawn, a reversing valve comprising a valve casing having a compressed air inlet opening, a compressed air withdrawal opening and communication openings for establishing communication between the valve casing and each of the said two pipes, said casing also having a piston valve chamber with five annular ports therein, namely a central port in open communication with the compressed air withdrawal opening, two intermediate ports in open communication respectively with the said communication openings and two outside ports in open communication with the compressed air inlet opening, a piston valve having a central piston and two outside pistons in said piston valve chamber, said piston being movable in the valve chamber from a position in which one outside piston is located to uncover one of the outside ports to place it in open communication with the intermediate port adjacent thereto and the other outside piston is located to cover the other outside port into a position in which the second-mentioned outside piston is located to uncover the second-mentioned outside port and the first-mentioned piston is located to cover the first mentioned outside port, said central piston being adapted in each of said positions of the piston valve to uncover the central port to place the latter in open communication with the intermediate port adjacent the outside port which is covered by the respective outside piston, supply pipes for admitting compressed air to the ends of the piston valve and a master valve for controlling the supply of compressed air through said supply pipe to each end of the piston valve alternately for reversing the valve.

1,917,456. MULTI-PLY FIBROUS STRUCTURE. ALFRED O. MICKELSON, Oak Park, Ill., assignor, by mesne assignments, to Asphalt Process Corporation, New York, N. Y., a Corporation of New Jersey. Filed Apr. 29, 1929. Serial No. 358,895. 6 Claims. (Cl. 154—2.)



3. A multi-ply fibrous structure comprising spaced surface sheets having interposed therebetween, and adhesively united thereto, an inner ply of expanded fibrous material having spaced apertures, said apertures being of greater central width than of end width, said apertures being in staggered relation in the sheet of the inner ply and having their lengths located with respect to each other with an appreciable overlap.

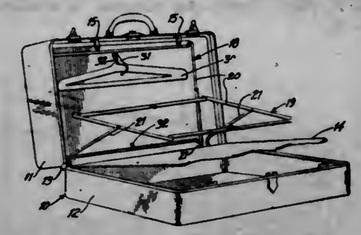
1,917,457. THERMOMETER. ARTHUR J. OTTO, Milwaukee, Wis., assignor to Johnson Service Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 6, 1932. Serial No. 603,631. 8 Claims. (Cl. 73—52.)



5. The combination of an apertured base; a thermometer mount hinged thereto on an axis transverse to the mount, said mount including a scale portion, and an insertion portion which extends through the aperture in said base and beyond the base; a thermometer including a stem and bulb mounted in said mount with its stem in coactive relation with said scale portion and its bulb housed in said insertion portion; and means coacting between said base and mount to maintain the aperture in the base closed in all positions of the mount.

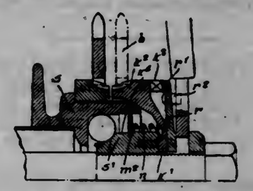
1,917,458. LUGGAGE. OSCAR H. PLOTKIN, Chicago, Ill., assignor to S. Dresner & Son, Inc., Chicago, Ill., a Corporation of Illinois. Filed Apr. 28, 1931. Serial No. 533,466. 4 Claims. (Cl. 190—41.)

1. In combination, a luggage case having two hinged together case sections, a garment rack mounting having links formed with bent end portions hingedly connected to the case adjacent the hinged end thereof and to extend into one case section and rest upon a side wall thereof,



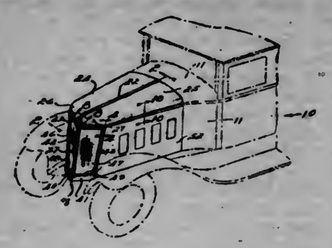
whereby said garment rack may be swung from a position wholly within one case section to a position over and lying upon the other case section and a garment rack pivotally mounted adjacent the free end of said links.

1,917,459. FREEWHEEL CYCLE AND BRAKING MECHANISM THEREFOR. JOHN VERNON PUGH, Meriden, England. Filed Nov. 8, 1930, Serial No. 493,217, and in Great Britain Nov. 8, 1929. 6 Claims. (Cl. 192—6.)



1. A freewheel device for cycles having in combination a hub, a member concentric with said hub and adjacent to an end thereof, substantially abutting annular shoulder surfaces on said member and said hub, a centrally apertured chain sprocket adapted to ride freely on a zone at the periphery of said abutting shoulder surfaces, internal helically disposed teeth formed round the aperture of said chain sprocket, two similar sloping surfaces of revolution one on said hub and one on said member receding from said shoulder surfaces and teeth thereon complementary to said sprocket teeth and adapted to engage fully therewith at the remote or larger ends of said sloping surfaces.

1,917,460. MOTOR VEHICLE. EMMETT G. PURDY, Detroit, Mich., assignor to Detroit Body Die Company, a Corporation of Michigan. Filed Apr. 7, 1931. Serial No. 528,387. 10 Claims. (Cl. 180—69.)



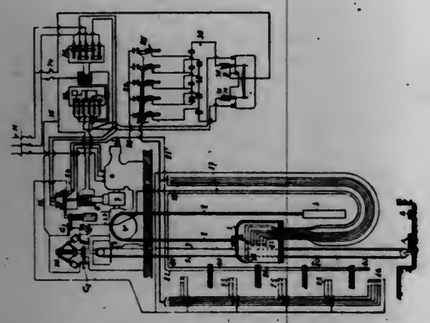
1. A hood for motor vehicles, comprising a pair of top panels, means for movably securing the panels together, a frame integral with the aforesaid means, a pair of front panels rigidly secured to the frame, a portion of each front panel abutting the forward edge of the respective top panel and a pair of side panels movably secured to the top panels, a portion of each side panel abutting a portion of the frame.

1,917,461. ELECTRIC HEATER. WILLIAM A. RANKIN, Rock Island, Ill., assignor to Birtman Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 7, 1931. Serial No. 514,270. 4 Claims. (Cl. 219—34.)



1. An electric radiant space heater including; a concave reflector; a heating element; means for supporting the heating element in front of the reflector; and a shield intercepting substantially all rays issuing from said heating element except those impinging against said reflector, and permitting substantially all rays impinging against said reflector to issue from the heater.

1,917,462. SAFETY DEVICE FOR ELEVATOR DRIVING MEANS. HENRI ROCHE, Paris, France, assignor to Societe Etablissements Edouxsamain, Paris, France. Filed Dec. 17, 1928, Serial No. 326,672, and in France Dec. 23, 1927. 6 Claims. (Cl. 172—152.)

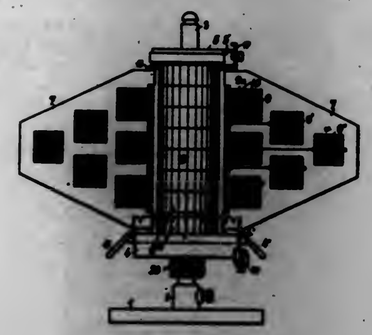


1. In a safety device for electric elevators, an operating mechanism for raising and lowering the elevator, a number of driven members thereon, an electric driving mechanism for actuating the operating mechanism and the driven members, a first contact-means, and a control-means therefor, jointly operable to automatically stop the electric driving mechanism, and in turn the operating mechanism, at the end of a short period of time, after the same are started, if the driven members are not operating normally, and a second contact-means electrically connected with the first contact-means, controlled by the action of the driven members, and acting to prevent the first contact-means and its control-means from effecting the stoppage of the electric driving mechanism as long as the driven members normally operate.

1,917,463. FLUOSILICATES OF ORGANIC ALIPHATIC BASES. PAUL LAWRENCE SALZBERG and EUCLID WILFRED BOUSQUET, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 16, 1930. Serial No. 489,230. 7 Claims. (Cl. 260—127.)

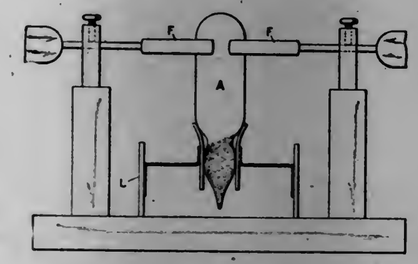
1. A fluosilicate of an organic aliphatic base.

1,917,464. COLOR DISPLAYING DEVICE. ERNST SCHARNOWSKI, Gleiwitz, Germany. Filed Oct. 27, 1931, Serial No. 571,441, and in Germany Nov. 7, 1930. 22 Claims. (Cl. 46—14.)



1. A color displaying device comprising a support, a plurality of plates hinged to said support and movable about parallel hinges, and groups of differently colored and shaded flaps hinged to the plates and movable about axes arranged at right angles to the plate hinges.

1,917,465. PROCESS AND APPARATUS FOR TESTING EVACUATED AMPULES. EUGEN SCHWEITZER, Frankfort-on-the-Main, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Aug. 7, 1931. Serial No. 555,849, and in Germany Aug. 11, 1930. 2 Claims. (Cl. 175—183.)

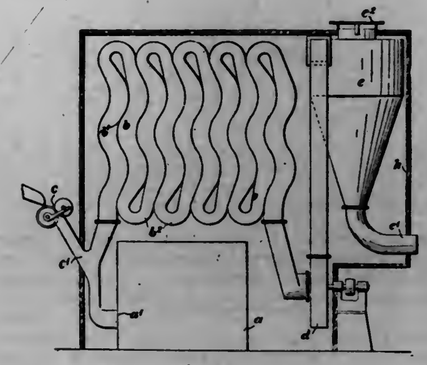


1. A method of testing the vacuum of evacuated ampules with the aid of electric fields of high frequency, which consists in first exciting the ampules by means of a high frequency spark gap and then bringing them into a field of high frequency formed by two metallic coatings between which are interposed one or more layers of a puncture-proof dielectric medium.

1,917,466. COMPOUNDS OF THE AMINO-HALO-INDANTHRENE SERIES AND PROCESS OF MAKING THEM. WILLIAM SMITH and JOHN THOMAS, Grangemouth, Scotland, assignors to Scottish Dyes, Limited, Grangemouth, Scotland. Filed Nov. 21, 1929, Serial No. 408,924, and in Great Britain Nov. 28, 1928. 11 Claims. (Cl. 260—31.)

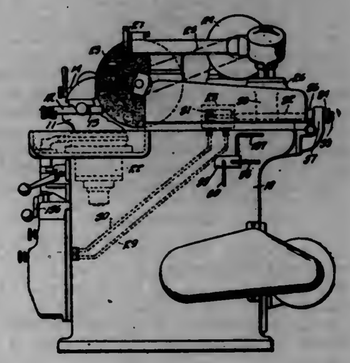
1. A process for the production of condensation products which consists in heating together a halogenated indanthrone having a halogen atom in the α position with an acid absorbing agent and catalyst and a body chosen from the group consisting of ammonia and primary and secondary amines.

1,917,467. DRYING OF YOUNG GRASS, FODDER, AND THE LIKE. OLOF SÖDERLUND, Clapham Park, London, England, assignor to Techno-Chemical Laboratories, Limited, London, England. Filed Oct. 27, 1930, Serial No. 491,572, and in Great Britain Nov. 1, 1929. 1 Claim. (Cl. 34—35.)



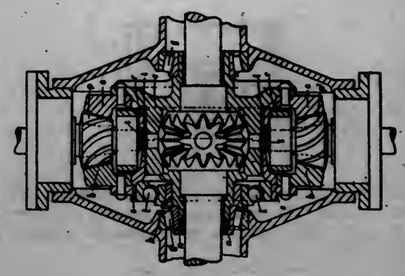
Apparatus for drying finely divided material comprising means for continuously supplying a heated gaseous medium, means for feeding finely divided moist material uniformly into said medium, a conduit having sinuous walls and semi-circular return bends extending without break from the region where said material is fed into said medium and means for moving said medium along said conduit to carry said material without deposit and subject it to reciprocating turbulence by contact with said walls.

1,917,468. BALL RACE GRINDER. AMOS P. STEINER, EDGAR P. WINN, and HAROLD E. BALSIGER, Waynesboro, Pa., assignors to Landis Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed May 27, 1930. Serial No. 456,196. 9 Claims. (Cl. 51—97.)



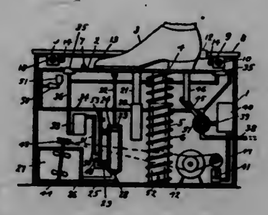
1. A machine for grinding the inside race of ball bearings comprising a work support, work driving means, a wheel base, a motor for moving said wheel base toward the work support, hydraulic means for limiting the speed of movement of the wheel base toward the work support, and automatic means for speeding up the work driving means as the wheel base reaches a predetermined point in its movement toward the work grinding position, substantially as set forth.

1,917,469. SELF-PROPELLED ROAD VEHICLE. ERNEST THOMAS JAMES TAPP and PERCY JOHN RUTTY TAPP, London, England. Filed Apr. 10, 1931, Serial No. 529,144, and in Great Britain Apr. 17, 1930. 3 Claims. (Cl. 74—99.)



1. In a differential drive mechanism, a differential cage, a driving axle extending from said cage, a bevel driving pinion, a bevel driven pinion for the purpose of conveying power to a second driving axle, a pair of bevel wheels mounted on the differential cage and meshing with both driving and driven pinions, one of said wheels being rigidly fixed to said cage to rotate therewith, a sleeve extending over and surrounding the differential cage and carrying the other of said wheels whereby the same may be free to rotate upon said cage, and a combined thrust and journal bearing supporting said sleeve at its outer end.

1,917,470. SHOE DRESSING MACHINE. JACOB T. UDEN, New York, N. Y. Filed Oct. 31, 1932. Serial No. 640,398. 7 Claims. (Cl. 15—31.)

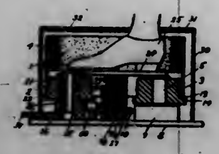


1. In a shoe dressing machine, the combination with a housing, of a platform for a shoe in said housing, said platform being adapted to be lowered by the pressure of a foot with said shoe, means to spray said shoe with a dressing liquid when said shoe is in a lowered position, covers slidably supported on top of said housing, levers pivotally connected with said covers and extending to the bottom of said housing, a block attached to said platform and adapted to press on the lower ends of said levers thereby closing said covers around said foot when said platform is lowered, and resilient strips on the edges of said covers adapted to fit tightly over said foot thereby protecting same above said shoe from said liquid.

1,917,471. SHOE SHINING MACHINE. JACOB T. UDEN, New York, N. Y. Filed Dec. 19, 1932. Serial No. 647,841. 4 Claims. (Cl. 15—30.)

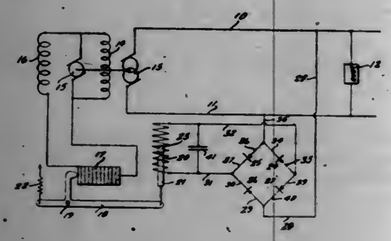
2. In a shoe shining machine, the combination with an endless belt, of rollers supporting said belt and engaging the lower portion of said belt, bristles on said belt forming a flexible brush above said rollers, a footboard inside of said belt for a shoe, means to support said footboard in an inoperative position above said

bristles, said supporting means adapted to yield under pressure from a foot with said shoe so as to bring said footboard with said shoe in an operative position inside of said belt, a hollow shaft for one of said rollers, a tube



slidably fitted in said hollow shaft and attached to said footboard, said tube being provided with apertures directed against said bristles, and means to exhaust air from said tube.

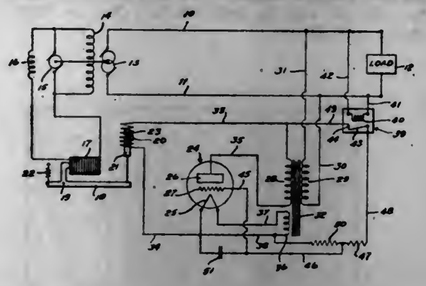
1,917,472. SYSTEM AND APPARATUS FOR REGULATION. LOUIS H. VON OHLSEN and FRANK W. GODSEY, Jr., New Haven, Conn., assignors to The Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Nov. 7, 1930. Serial No. 494,173. 9 Claims. (Cl. 171—229.)



1. In apparatus of the character described, in combination, a source of alternating current, a carbon pile for controlling a function of the output of said source, said carbon pile having the inherent characteristic of requiring a substantially steady force for determining the pressure thereon, electromagnetic means for controlling the pressure on said carbon pile, and means including uni-lateral valves for connecting said electro-magnetic means to be responsive to the function to be regulated, said valves being arranged so that said electromagnetic means is energized by uni-directional current waves corresponding to the successive alternately reversed half waves of said function of the output of said source, whereby the force exerted by said electromagnetic means in controlling the pressure on said carbon pile is sufficiently steadied to meet the requirements of the said characteristic of said carbon pile.

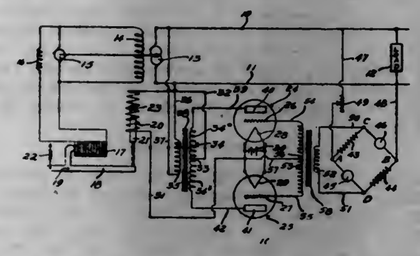
1,917,473. SYSTEM AND APPARATUS FOR REGULATION. LOUIS H. VON OHLSEN and FRANK W. GODSEY, Jr., New Haven, Conn., assignors to The Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Dec. 10, 1930. Serial No. 501,309. 18 Claims. (Cl. 171—119.)

1. In apparatus of the character described, in combination, a source of alternating current; a carbon pile for controlling a function of the output of said source, and means for controlling the pressure on said carbon pile, said means including an electronic conduction device having a cathode, an anode, and a control element, a coil for affecting the pressure on said carbon pile, means connecting said coil and two electrodes of said device to be energized by unidirectional current derived from said source, said control element operating to change the conductivity of said device in response to potential changes applied thereto, means responsive to changes in said function of the output of said source for making and



breaking a circuit, and means responsive to the action of said last-mentioned means for changing the potential applied to said control element.

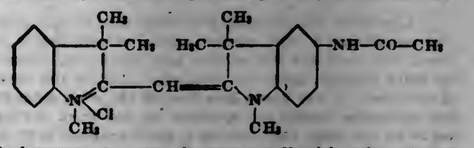
1,917,474. SYSTEM AND APPARATUS FOR REGULATION. LOUIS H. VON OHLSEN and FRANK W. GODSEY, Jr., New Haven, Conn., assignors to The Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Dec. 24, 1930. Serial No. 504,526. 18 Claims. (Cl. 171—119.)



1. In apparatus of the character described, in combination, a source of alternating current, a carbon pile for controlling a function of the output of said source, a coil for controlling the pressure on said carbon pile, a three-element electronic conduction device, one of its elements being a control element, said device having said coil related to its output circuit, means forming a bridge and connected to be responsive to said function of the output of said source and adapted to become unbalanced when departures from intended value of said function take place, and means responsive to unbalanced condition of said bridge for affecting said control element.

1,917,475. PROCESS OF PREPARING BASIC DYESTUFFS DERIVED FROM INDOLINE BASES. OTTMAR WAHL, Leverkusen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Oct. 18, 1930, Serial No. 489,705, and in Germany Nov. 16, 1929. 3 Claims. (Cl. 260—47.)

2. The dyestuff corresponding probably to the formula:



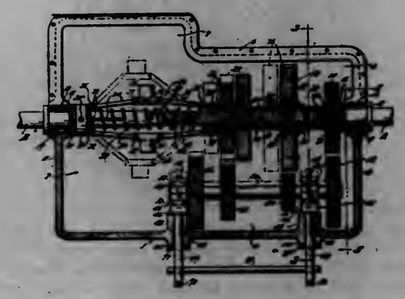
dyeing tanned cotton in orange-yellowish color of good fastness to light.

1,917,476. FULL CYCLE LOCATING MECHANISM. EDWARD C. WALTER, Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a Corporation of Delaware. Filed Dec. 14, 1932. Serial No. 647,119. 8 Claims. (Cl. 235—79.)



2. In a full cycle locating mechanism, the combination with a driven shaft, and spring checking means engageable with said shaft, of a device having frictional connection with said shaft and provided with spaced contact faces, a stop adapted to engage either contact face and to allow a limited free movement of the device with the shaft upon reverse movement of said shaft by the spring checking means, and means for adjusting the frictional tension of said device, to vary the effective action of the spring checking means.

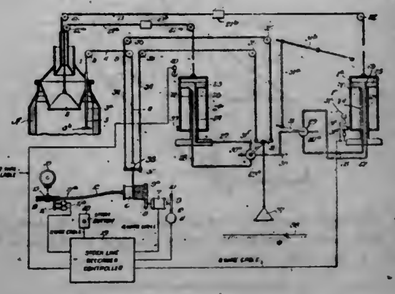
1,917,477. TRANSMISSION. ERNEST A. WARD, Beaumont, Calif. Filed Sept. 23, 1932. Serial No. 634,486. 13 Claims. (Cl. 74—97.)



1. In a transmission, in combination with driving and driven shafts, a sleeve slidably mounted on the driven shaft, a governor mounted on the driven shaft and adapted to reciprocate the said sleeve under control of the speed of rotation of the driven shaft, a countershaft driven by the driving shaft and adapted for movement toward and away from the sleeve, and cooperating gears of graduated sizes mounted on the sleeve and countershaft and adapted for selective engagement at various positions of the sleeve to connect the driving and driven shafts at various speed ratios.

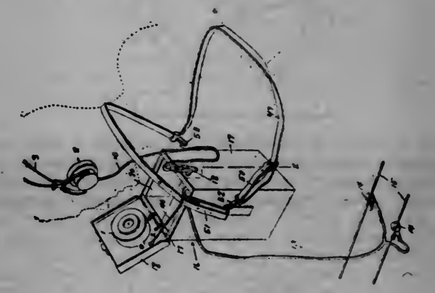
1,917,478. COMBINED CHARGING AND INDICATING SYSTEM. ARTHUR J. WHITCOMB, OWEN B. RICE, and OLAF C. CALLOW, Chicago, Ill., assignors to Freyn Engineering Company, Chicago, Ill., a Corporation of Maine. Filed Mar. 7, 1929. Serial No. 345,163. 9 Claims. (Cl. 214—18.)

1. In a blast furnace charging system, in combination, a receptacle the level of the contents of which is to be indicated, a test member responsive to gravity adapted to rest for prolonged periods of time upon the top of said contents, an electric motor for raising said test member, a cable connected to said test member adapted to be wound up by said motor, electrical connections including torque limiting means for said motor for causing said motor to exert a force upon said cable at all times when said test member is resting upon said contents, a closure member, gravity responsive means tending to hold said closure member in closed position and



control means for said gravity responsive means for causing the opening of said closure member, said control means being responsive to movement of said test member.

1,917,479. TELEPHONE LINEMAN'S TEST SET. HARVEY L. WHITLEY, Fremont, N. C. Filed Oct. 25, 1932. Serial No. 639,514. 2 Claims. (Cl. 179—29.)

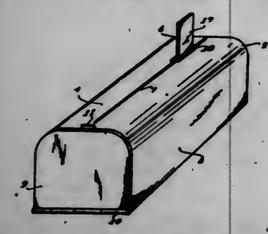


1. A line test set case provided with a hingedly mounted cover, a lining for the case comprising separable side and bottom members lining the sides and bottom of the case and a cover lining arranged within the cover of said case; a partition hinged to one of the side lining members, a stop bracket on a side lining member opposite to the first named side lining member and with which the partition is engaged when in parallelism with the bottom of the case, a switch mounted on the under side of said partition, and a plunger mounted for vertical shifting movement in the first named side lining member and engageable with the switch for opening it when the cover of the case is moved to a closed position, said plunger member having one end thereof disposed for engagement by the cover as the latter is moved to a closed position.

1,917,480. DISPENSING CONTAINER FOR SLICED BREAD AND THE LIKE. EMMA WIDING, Portland, Oreg. Filed Aug. 14, 1931. Serial No. 557,140. 2 Claims. (Cl. 312—71.)

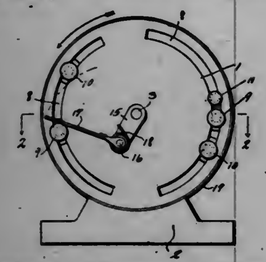
2. In a device of the class described, comprising a body element adapted to snugly embrace a loaf of bread to be maintained therein, the combination of a closure hingedly secured to the discharge end of the body element, a cutting board disposed upon the inner surface of the hinged closure, a relatively narrow slit disposed in the top wall of the body element, a dash having a shank secured thereto disposed within the body element

with the shank thereof slidably disposed within the slit and extending thereabove, and a handle having a guard disposed upon its lower end adapted to maintain the dash



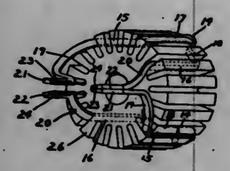
in a vertical position removably secured to the shank, said dash being correspondingly shaped to the inner surfaces of the body element.

1,917,481. CIRCUIT CLOSER. JOSEPH ANDERSON, LEO V. ANDERSON and JOSEPH B. ANDERSON, Lehi, Utah. Filed Feb. 4, 1932. Serial No. 590,920. 3 Claims. (Cl. 200—33.)



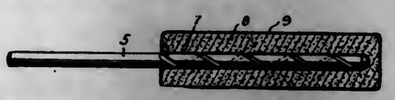
1. A circuit closer comprising a member, a rock arm rotatably supported by said mtmber, arcuate slots in the member concentric to the axis about which the rock arm travels, means for connecting the rock arm to a source of electrical energy, a contact member in each of the slots, a stop member in each of the slots in advance of the contact member, a contact member pivotally connected to the rock arm and of a length to have contact with a stop member and a first named contact member, and a spring element coacting with the rock arm and the last named contact member for bringing said last named contact member into engagement with the stop member and then to abruptly bring the last named contact member into engagement with the contact member in the same slot as the stop member immediately upon the rock arm travelling a distance to throw the last named contact member free of the stop member.

1,917,482. ARMATURE COIL. VINCENT G. APPLE, Dayton, Ohio; Herbert F. Apple, Edward M. Apple, and Gourley Darroch executors of said Vincent G. Apple, deceased. Original application filed Nov. 18, 1927, Serial No. 234,158. Divided and this application filed Jan. 6, 1932. Serial No. 585,019. 7 Claims. (Cl. 171—206.)



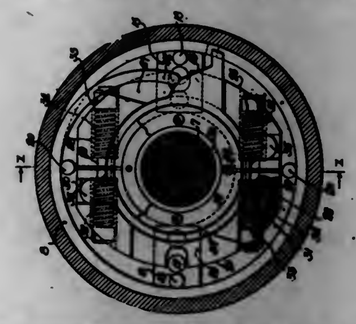
1. As an integral armature winding unit, a loop closed at one end and open at the other, comprising two parallel spaced apart conductors, connected by the closed end of the loop, and two parallel spaced apart commutator lugs formed of the open ends of the loop, said lugs having longitudinal grooves formed in the sides for the purpose set forth.

1,917,483. PROCESS OF ICE CREAM MAKING. MASAZO ARIMOTO, San Bernardino, Calif. Filed May 16, 1929. Serial No. 363,468. 7 Claims. (Cl. 107—54.)
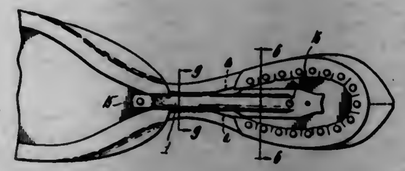


7. The process of affixing a handle member to a confection which consists in coating at least a part of a handle member with gelatin, immersing the coated part of the handle member in a confection solution to be frozen, and freezing the solution while the handle member is thus immersed therein until a frosen union of said coated part and the solution takes place.

1,917,484. CLUTCH. OSCAR H. BANKER, Chicago, Ill., assignor, by mesne assignments, to New Products Corporation, a Corporation of Delaware. Filed Dec. 22, 1930. Serial No. 504,018. 8 Claims. (Cl. 192—105.)



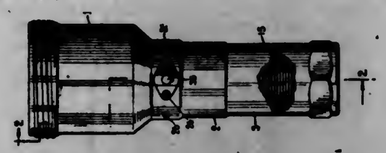
1. In a clutch of the character described, the combination with a rotatable driving member and a rotatable driven member, of a coil clutch spring on said driving member engageable with said driven member, said driving member provided with radially disposed guides, weights slidably mounted on said guides, spring means resisting the outward movement of said weights until said driving member reaches a predetermined speed, an equalising member rotatable with and relative to said driving member and operatively connected with each of said weights and having a part engageable with said clutch spring to move the same to engage said driven member on the outward movement of said weights.

1,917,485. SHOE SHANK STIFFENER. REINHARD B. BARTELS, Marblehead, and OTTO H. L. THELEN, Lynn, Mass. Filed Mar. 27, 1931. Serial No. 525,712. 8 Claims. (Cl. 36—76.)



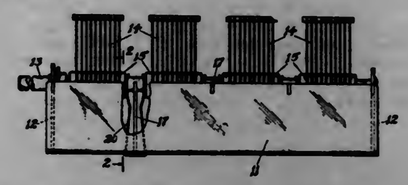
1. A shoe shank stiffener having a portion within its rear half substantially wider than its forward portion and provided throughout the major portion of its length with a stiffening rib, said wider portion only having flat marginal flanges on either side of said rib.

1,917,486. SPRING. WILLIAM BECK, New York, N. Y. Filed Apr. 3, 1931. Serial No. 527,467. 4 Claims. (Cl. 267—1)



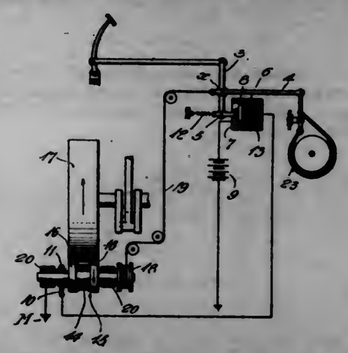
1. A power spring formed of a single length of wire and comprising a plurality of duplicating units, each unit comprising two reversely wound spiral sections.

1,917,487. VARIABLE ELECTRIC CONDENSER. MORRIS H. BENNETT and ARTHUR D. COWPERTHWAIT, Waterbury, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 8, 1929. Serial No. 361,270. 7 Claims. (Cl. 175—41.5.)



1. In a gang condenser, and in combination, a frame, a shaft journalled therein at its ends, sleeves on said shaft, rotor elements carried by said sleeves, and means for electrically connecting said sleeves to said frame comprising forked yokes each wiping the ends of a plurality of said sleeves and being secured to said frame.

1,917,488. ELECTRIC SERVO-MOTOR FOR AUTOMOBILES OR THE LIKE. JOSEPH BETHENOD, Paris, France. Filed May 7, 1929, Serial No. 361,214, and in France May 12, 1928. 10 Claims. (Cl. 188—138.)



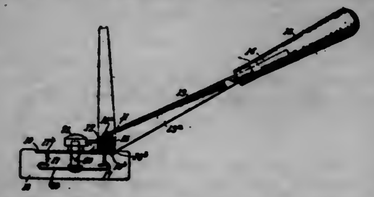
10. An arrangement for controlling parts of automobiles comprising a part to be controlled, a link member associated with said part, an electromagnetic device applying a force to said link member, means for actuating said device comprising a source of current and an apparatus comprising a mobile member for continuously varying the current supplied by said source, and means directly actuated by the operator for simultaneously applying direct force to said link member and controlling the displacements of said mobile member, said means comprising a lever attached to said mobile member and rotatable around a point in said link member.

1,917,489. METHOD FOR REMOVING SCALE INCRUSTATIONS, OIL AND THE LIKE IN WATER RECEPTACLES. HUMBERT BIZZONI, New York, and PHILIP LENT, Brooklyn, N. Y. Filed Apr. 11, 1930. Serial No. 443,609. 8 Claims. (Cl. 87—5.)

5. A process for removing oil and incrustations and other impurities from a water receptacle having water therein and oil on the surface of the water consisting in introducing into the water receptacle, trichlorethylene to permit the same to partially dissolve the oil as it comes in contact therewith and descends to the bottom of the receptacle, then introducing sodium peroxide for attacking or dissolving such incrustations, then introducing potassium carbonate for increasing the density of the liquid above the density of the oil solvent and dissolved oil, and thereby causing the latter to rise to the top of such liquid and permitting the oil solvent to dissolve the oil adhering to the wall of the receptacle and floating on the surface, then adding water to decrease the density of the liquid below that of the oil solvent and dissolved oil to cause the latter to descend to a desired level in the receptacle and then draining the liquid off at such a level.

8. A process for removing oil from a water receptacle having water therein and oil on the surface of the water, consisting in introducing into the water receptacle trichlorethylene to permit the same to partially dissolve the oil as it comes in contact therewith and descends to the bottom of the receptacle, then introducing potassium carbonate into the receptacle for increasing the density of the liquid above the density of the oil solvent and dissolved oil, and thereby causing the latter to rise to the top of the liquid and permitting the oil solvent to dissolve the oil adhering to the wall of the receptacle and floating on the surface of the liquid, then adding water to decrease the density of the liquid below that of the oil solvent and dissolved oil to cause the latter to descend in the receptacle.

1,917,490. SCRAPING TOOL HANDLE. SIDNEY M. BOOKMAN, New York, N. Y. Filed June 15, 1929. Serial No. 371,246. 2 Claims. (Cl. 15—210.)



1. In a device of the character described, an outer clamping plate, an inner clamping plate detachably connected to said outer clamping plate and spaced from the latter, a pad of pliable scraping material clamped between said inner and outer clamping plates, projecting ears on one edge of said outer clamping plate, a handle pivotally connected to said ears, an abutment surface on said handle cooperating with said outer clamping plate for maintaining said handle substantially at an angle to said outer clamping plate, and a spring holding the abutment surface against the outer clamping plate.

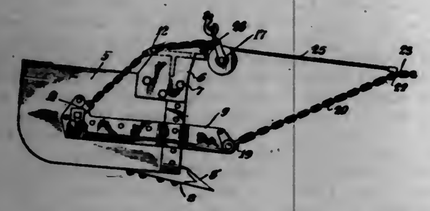
1,917,491. ASH TRAY. EMMA BOWERMAN, New York, N. Y. Filed Dec. 21, 1929. Serial No. 415,667. 9 Claims. (Cl. 131—51.)



1. An ash tray having a base and upstanding sides and comprising an inner layer and an outer layer of material,

the edge of the side of the outer layer being below the edge of the side of the inner layer to provide a thin rim of the thickness of only a single layer of material and a plurality of layers below the edge to strengthen the sides at the juncture with the base.

1,917,492. EXCAVATING SHOVEL. HERMAN J. BRENDLIN, New York, N. Y., assignor to The Hayward Company, New York, N. Y., a Corporation of New York. Filed Dec. 6, 1929. Serial No. 412,011. 2 Claims. (Cl. 37—135.)



1. In a device of the class described, the combination of a shovel having a hood over its front portion, a suspending-bridle connected to the shovel rearwardly of its centre of gravity, a draft-bridle connected to the forward end of the shovel, a drag-line connected to said draft-bridle, a control line having one end connected to said drag line and the other end connected to said hood, said control line having such length relatively to said draft-bridle that when power is applied to said drag-line it is imparted to the control line in advance of the draft-bridle to tilt the bucket into its proper digging angle, and slidable means on said control line connected to said suspending-bridle for tilting the forward end of the shovel upwardly during the carrying operation.

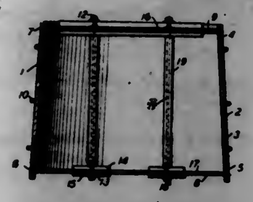
1,917,493. LINE GUIDE. GEORGE W. BRETZ, Galveston, Tex. Filed Sept. 9, 1930. Serial No. 480,700. 1 Claim. (Cl. 43—24.)



A line guide including a shank whose free end is bifurcated providing outwardly curved oppositely disposed arms, an agate fitted snugly between said arms, a band formed integrally with the outer ends of said arms and fitted against the outer portion of the agate, the outer end of said agate being provided with a bore which extends to and through each side of the agate between said arms, the walls of said bore being convex.

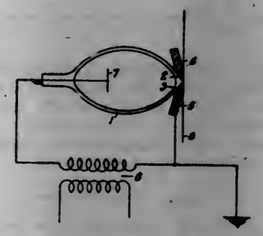
1,917,494. TANK CONSTRUCTION. LEE L. BROOKS, Midland, Tex. Filed Sept. 10, 1930. Serial No. 480,873. 2 Claims. (Cl. 217—77.)

1. A tank of the character described for containing corrosive fluid under pressures varying above and below atmospheric pressure, including a side wall and a top and bottom wall comprising a plurality of juxtaposed members having their ends supported by the side wall, clamping members extending across the inner faces of said members, complementary clamping members extending across the outer face of said members in superimposed relation with the first clamping members, tie rods extending through the top and bottom walls and through said clamping members, means on said rods arranged to retain the clamping members in clamping relation with said top and bottom wall members and to retain the top and bottom walls from bulging outwardly when pressure within the tank exceeds atmospheric pressure, and shielding members enclosing the rods from the corrosive action of fluid contained in the tank and arranged for



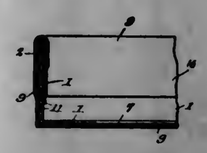
forming columns to support the top wall when the pressure within the tank drops below atmospheric pressure and to relieve the rods of compression forces.

1,917,495. DISCHARGE TUBE WITH OPTICAL SLITS. CECIL OSWALD BROWNE, Ealing Common, London, England, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a Corporation of Delaware. Filed June 11, 1929, Serial No. 370,114, and in Great Britain July 14, 1928. 12 Claims. (Cl. 176—122.)



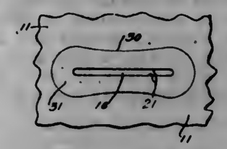
1. A discharge tube comprising a transparent envelope having thereon a projection, an optical slit being formed at the intersection of two relatively inclined surfaces of said projection.

1,917,496. PAPER BOX AND METHOD OF MAKING THE SAME. CLARENCE LLOYD CLAFF, Randolph, Mass. Filed Apr. 18, 1932. Serial No. 606,007. 2 Claims. (Cl. 229—6.)



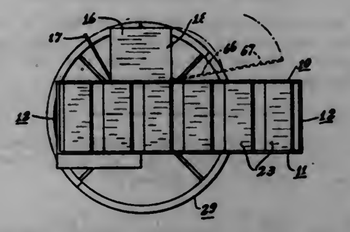
1. A cardboard box including opposed strips of material bent to provide the sides and ends of a box frame, said strips having edge portions extending toward each other, a top panel overlying and affixed to said inwardly extended portions and having projecting ends folded downwardly and inwardly relative to the end portions of the frame to straddle said portions and hold them assembled, said end portions and the folded portions of the panel being joined by an adhesive, and a covering material affixed to the panel and foldable with the ends thereof, said covering material having projecting side portions foldable downwardly and inwardly onto the outer and inner surfaces of the side of the frame and affixed thereto.

1,917,497. METHOD OF DRAWING TEMPER IN CUTTING SLOTS. CLARENCE J. COMELY, Los Angeles, Calif., assignor to Kobe, Inc., Huntington Park, Calif., a Corporation of California. Filed Apr. 15, 1930. Serial No. 444,495. 11 Claims. (Cl. 148—9.)



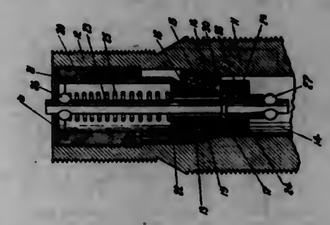
2. A method of the character described for equalising thermal conditions in metal surrounding a gas-cut slot, consisting of applying heat to the metal adjacent to the slot after termination of the cutting operation.

1,917,498. COLLAPSIBLE SUN BATH APPARATUS. BERRY COLLINS, Birmingham, Ala., assignor to Sun Bath Company, a Corporation of Alabama. Filed June 20, 1930. Serial No. 462,497. 3 Claims. (Cl. 174—177.)



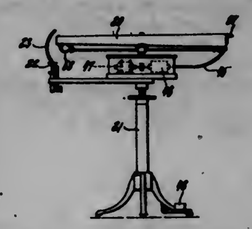
1. A sun bath apparatus comprising side frames and collapsible end frames, a roof structure hingedly secured to one of the side frames and adapted to fold over and lie flat against said side frame for shipping, a mattress frame fitting between and supported by the side frames when the end frames are extended, a dressing room frame comprising two side walls hinged together, one of which is hinged to the other side frame, said dressing room frame being adapted to lie flat against the side frame in shipping, a removable floor for the dressing room, and means carried by the floor and coacting with the frame for holding the dressing room frame against collapse.

1,917,499. AUTOMOBILE TIRE VALVE. WILLIAM T. CONRAD, Lawndale, Calif. Filed Feb. 14, 1928, Serial No. 254,238. Renewed May 20, 1932. 2 Claims. (Cl. 152—12.)



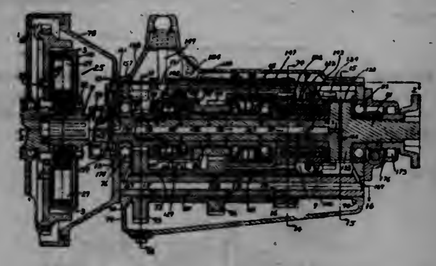
1. In a tire valve construction arranged to coact with a tire valve nipple having an internal tapered shoulder, a threaded body member arranged to be screwed into said nipple, an extension for said member, a bushing having a grooved flange, the extension engaging said groove so as to permit said bushing to rotate with respect to the extension, said bushing having a pointed flange at the bottom, a resilient gasket disposed on said bushing between the flanges and arranged to coact with the tapered shoulder, said bushing also having an intermediate flange to serve as a support for the gasket, a valve stem extending through the bushing, a cup on said stem having its edge arranged to coact with the bottom of the gasket to serve as a closure, a resilient closure member in the cup coacting with the pointed flange to provide another closure, a sleeve in said closure member cooperating with the pointed flange to limit their relative axial movement, and resilient means for urging the stem to closing position.

1,917,500. RETINOMETER. ERNEST P. COOK, Berlin, N. H. Filed Feb. 5, 1931. Serial No. 513,569. 6 Claims. (Cl. 88—22.)



1. Apparatus of the class described comprising an elongated housing, an axometer ring having a central aperture and a diametric stripe at one end of said housing, a lamp-box at an intermediate point of said housing, a ring in the opposite end of the housing, a mirror supported in said ring and rockable on a diameter of its ring as an axis, means for adjustably rotating both said rings in their own planes, and means for rocking said mirror when its ring is in any position of adjustment.

1,917,501. AUTOMATIC FREEWHEELING TRANSMISSION MECHANISM. FREDERICK W. COTTERMAN, Dayton, Ohio, assignor of one-half to Vincent G. Apple, Dayton, Ohio; Herbert F. Apple, Edward M. Apple, and Gourley Darroch executors of said Vincent G. Apple, deceased. Filed Aug. 5, 1931. Serial No. 555,186. 22 Claims. (Cl. 74—59.)



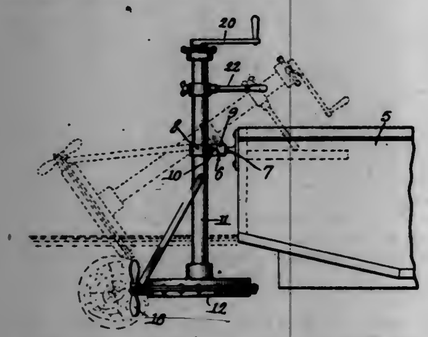
1. The combination, in automotive transmission mechanism, of a power operated driving member, a load resisted driven member, reduction gearing operated by said driving member, whereby said driven member is driven by said gearing but may overrun said gearing, means operable into engagement to connect said driving and driven members directly, a speed responsive means for operating said connecting means into engagement, and a second speed responsive means operative to detain operation of the first speed responsive means until the driving member is brought to a speed synchronous with that of the driven member.

1,917,502. PROCESS FOR MAKING TIE-ROD ENDS. FREDERICK C. CRAWFORD and GEORGE H. HUFFERD, Detroit, Mich., assignors to Thompson Products, Incorporated, Cleveland, Ohio, a Corporation of Ohio. Original application filed Feb. 26, 1926, Serial No. 90,899. Divided and this application filed Dec. 29, 1930. Serial No. 505,229. 8 Claims. (Cl. 29—152.)



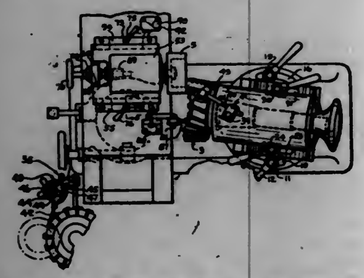
1. The process of making a one piece tubular connecting rod which comprises spreading the slotted expanded end of a metal tube into scoop form, drawing the so formed end into a cylinder closed at one end and whose axis is at right angles to the axis of the tube, and then cutting off the closed end of the cylinder.

1,917,503. MARINE PROPELLER. SHERMAN CRUMP, Haynesville, La. Filed Aug. 2, 1932. Serial No. 627,258. 3 Claims. (Cl. 115—18.)



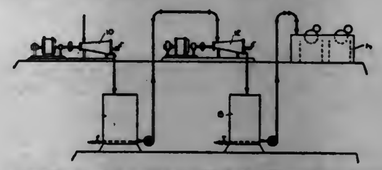
1. The combination with the vertical, pivoted propeller shaft housing of a boat, of a propeller shaft, mounted within the housing, a combined fly wheel and ring gear mounted on the lower end of the shaft, normally holding the shaft in its vertical position, a propeller operated by the ring gear, and means for transmitting rotary movement to the propeller shaft.

1,917,504. CUTTER GRINDER. FRANK W. CURTIS, Wauwatosa, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis. Filed Sept. 5, 1931. Serial No. 561,406. 2 Claims. (Cl. 51—56.)



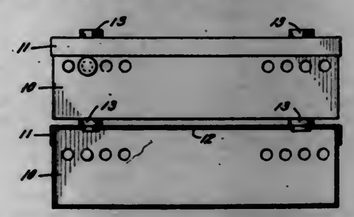
1. In a grinder for milling cutters, the combination of a stationary base, a rotatable cutter supporting spindle, a rotatable grinding wheel spindle, a slide supported from said base for relative bodily reciprocatory movement of said wheel spindle and cutter spindle in a path for grinding a cutting edge of a cutter supported from said cutter spindle, means for indexing said cutter to present the teeth thereof one after another to said wheel, an indicator supported from said face in a position to contact the surface of the cutting edge being ground during a continuation in one direction of said reciprocatory movement, and a slide supporting said grinding wheel spindle for bodily adjustment relative to said indicator in a direction to compensate for wear of the grinding wheel during said reciprocatory movement.

1,917,505. METHOD OF HYDRATING CELLULOSE FIBERS. JUDSON A. DE CEW, Mount Vernon, N. Y., assignor to Process Engineers, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 23, 1929. Serial No. 409,213. 5 Claims. (Cl. 92—20.)



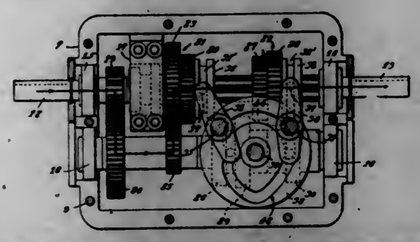
1. A method of treating cellulose fibres by a plurality of Jordan type refining machines, which comprises partially de-watering the pulp after the first refining operation, and before the last refining operation.

1,917,506. CARTON FOR BABY CHICKS. IRVING A. DELINE, Denver, Colo. Filed Jan. 11, 1932. Serial No. 585,925. 2 Claims. (Cl. 229—6.)



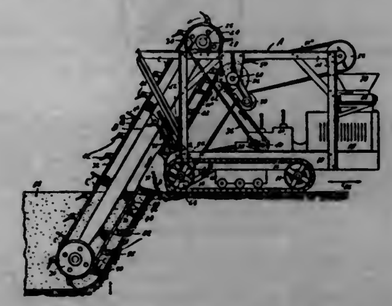
1. A container for baby chicks and the like comprising a box; a lid for said box, said lid containing perforations; and plugs in certain of said perforations and projecting above said lid.

1,917,507. CHANGE SPEED GEAR BOX. LESTER A. DEMKIER and DONALD L. MEYERS, Dubuque, Iowa, assignors to The Adams Company, Dubuque, Iowa, a Corporation of Iowa. Filed Apr. 6, 1931. Serial No. 527,947. 3 Claims. (Cl. 74—59.)



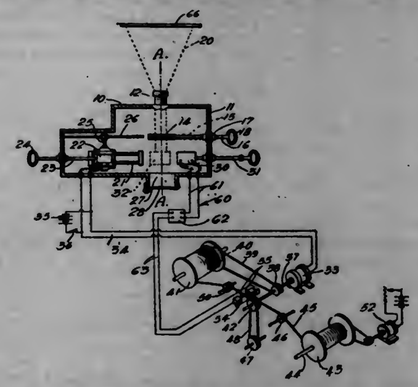
1. Cam means for shifting gears in a change speed gear box for machine tools and the like, comprising a single rotary disc in the box, a stub shaft for turning the same projecting through a removable cover on said box, said disc being constructed to constitute a single cam, shifters mounted on the cover in a predetermined relation to the disc and arranged in the turning thereof to be cammed to shift the respective gears to be shifted in a predetermined manner, said shifters having detachable operating connections with said gears to permit removal thereof with said cover, and means outside the cover for turning said shaft.

1,917,508. EARTH DISCHARGING MECHANISM FOR EXCAVATORS. NORMAN DE WIND, Newton, Iowa, assignor to The Parsons Company, Newton, Iowa, a Corporation. Filed Mar. 16, 1931. Serial No. 523,029. 13 Claims. (Cl. 37—89.)



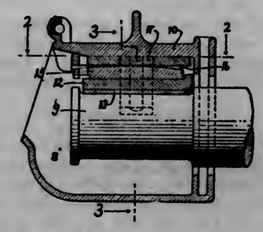
1. The combination with excavator mechanism including digging elements, earth carrying means and means for moving said elements and earth carrying means in a path at an angle to the vertical, of a conveyer movable with and mounted adjacent and having a portion thereof parallel with said earth carrying means and traveling in the same direction thereas to receive earth therefrom by transference of the earth from the earth carrying means to the conveyer during the parallel movement of the earth carrying means and the conveyer.

1,917,509. APPARATUS FOR MAGNETICALLY RECORDING MOTION PICTURES. VINCENT C. DE YBARRONDO, Los Angeles, Calif., assignor to Patco, Inc., Los Angeles, Calif., a Corporation of California. Filed Mar. 17, 1930. Serial No. 436,420. 7 Claims. (Cl. 178—6.)



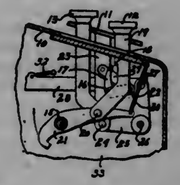
1. A method of motion picture making which consists in: initially moving a screen into a position substantially centralized on a defined focal axis; casting an image on said screen; viewing said image cast on said screen to determine the focus thereof; moving said screen from said focal axis; moving a scanner into a position intersecting said focal axis to receive the focused image; removing a light device into an operative position on said focal axis; scanning said image; causing an electric current to fluctuate in accordance with the variation in light from the image; and forming a magnetic record representative of the fluctuations of said electric current.

1,917,510. JOURNAL BOX. CLYDE C. DEBELA, Indianapolis, Ind. Filed Jan. 13, 1930. Serial No. 420,318. 3 Claims. (Cl. 308—54.)



2. A journal box construction for a railway vehicle journal including an open ended box structure surrounding the journal with a top wall above the journal having a flat and imperforate inside surface extended substantially to the outer edge of the bearing portion thereof, a bearing in the box saddled on the journal, a bearing backing member above the bearing having an upper surface convexly curved in a direction axially of the journal and being substantially without curvature in a direction transverse the journal, a readily renewable wear plate interposed between said bearing backing member and the top wall of the box, the said plate being retained in its normal operative position in the box structure by weight of the vehicle imposed on the journal from the box structure, the renewable wear plate having parallel surfaces which are substantially flat and imperforate at least in an extended central region thereof, and stop means on the box structure positioned to abut against said plate and adapted to provide against displacement of the plate axially of the journal when said plate is held in its normal operative position by virtue of the transmission of weight from the box to the journal, whereby when irregular track conditions and the like are encountered, angular displacements of the journal and the box are accommodated by a line contact rolling movement between said bearing backing member and said plate, and whereby, in order to renew or maintain said line contact, said plate may be removed and replaced through the open end of the box structure upon relative vertical displacement of the box structure and the journal to remove the weight of the vehicle from the journal.

1,917,511. KEYBOARD LOCK. ELMER G. ELLIOTT, Los Angeles, Calif., assignor to William J. Pearson, Los Angeles, Calif. Filed Oct. 23, 1931. Serial No. 570,624. 3 Claims. (Cl. 235—26)



1. In a device of the character described, a keyboard having keys mounted thereon, key bars extending from said keys, and a detent connected by a flexible connec-

tion to one key bar and movable therewith to intercept a second key bar when the first mentioned key is depressed, the free end of said detent being positioned to engage the face of said second key bar to prevent operation of the first-mentioned key bar when the second key is depressed.

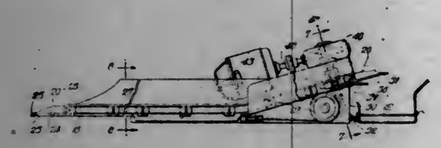
1,917,512. YARN WITH EVEN SHRINKAGE. RICHARD ELSSNER, Johnson City, Tenn., assignor to American Glanzstoff Corporation, New York, N. Y., a Corporation of Delaware. Filed July 2, 1931. Serial No. 548,479. 3 Claims. (Cl. 34—24.)

1. A process for producing even shrinkage of filaments produced by the pot spinning process, which comprises drying the cake from the outside thereof, wetting the cake, and then drying the cake from the inside thereof.

1,917,513. YARN WITH EVEN SHRINKAGE. RICHARD ELSSNER, Elizabethton, Tenn., assignor to American Glanzstoff Corporation, New York, N. Y., a Corporation of Delaware. Original application filed July 2, 1931, Serial No. 548,479. Divided and this application filed Oct. 6, 1932. Serial No. 636,585. 3 Claims. (Cl. 34—24.)

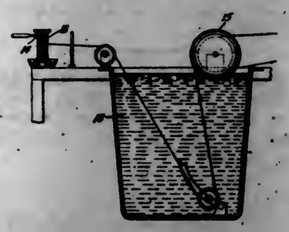
1. In the process of treating hollow cakes of artificial filaments produced from cellulosic solutions, the steps of drying the hollow cake from the inner to the outer side, turning the hollow cake inside out and continuing the drying from the inner to the outer side.

1,917,514. MACHINE FOR HANDLING COAL AND OTHER LOOSE MATERIAL IN MINES. MERRILL ALBERT EVANS, Wharton, W. Va. Filed Aug. 26, 1931. Serial No. 559,405. 6 Claims. (Cl. 198—11.)



1. In machines of the class described, an elongated one pieced conveyer plate having a horizontal section and an upwardly inclined section terminating in a downwardly extending lip section, a base frame therefor, said frame comprising a box-like casting with rounded edges having a flat bottomed base plate and side walls adapted to receive the said conveyer plate to support the same with the horizontal section in part extending beyond the base plate at a slightly higher horizontal level, and with the inclined section resting upon one of said walls, an endless chain mechanism centrally disposed on said conveyor plate along its longitudinal axis, a housing therefor forming a runway about the outer face of said plate, a plurality of gathering arms spaced upon said chain and adapted to travel along said runway in substantial contact with the surface thereof, each of said arms comprising a base portion and a vertically extending fin portion, the base portion extending laterally beyond the outer edge of said conveyer plate and the fin portion tapering from its inside edge towards the end of the base portion and terminating with the base portion in a substantial point, the said point being located approximately on the same horizontal level as the under face of said conveyer plate, means disposed above the conveyer plate to energise said endless chain mechanism, and clutch means disposed below the conveyer plate to engage automotive propelling means said first means to position the machine with respect to material to be gathered.

1,917,515. ART OF RAYON MANUFACTURE. WILLIAM H. FURNESS, National Park, N. J. Filed Apr. 7, 1930. Serial No. 442,473. 3 Claims. (Cl. 18—54.)



1. The herein described process which comprises forming rayon threads of light denier, uniting them into a heavy thread with a twist therein, treating said heavy thread, and dividing it into its component threads while removing the twist imparted.

1,917,516. TREATMENT OF SEWAGE SLUDGES. HORACE GRAY GILLILAND, near Cheshunt, England. Filed July 28, 1930, Serial No. 471,426, and in Great Britain Sept. 17, 1929. 6 Claims. (Cl. 71—8.)

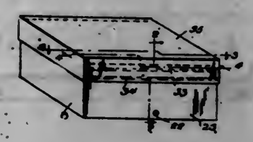


1. A method of treating the sludge of organic matter obtained by the action of yeast on sewage sludges, which method consists in adding to the aforesaid sludge of organic matter a small quantity of sulphuric acid to arrest the fermentation in the sludge, mixing with the acidified sludge a sufficient quantity of a substance from the group consisting of calcium hydroxide and calcium oxide to neutralize the acid and then adding to the mixture a small quantity of powdered coke, then subjecting the mixture of sludge and the various materials added thereto to violent agitation while it is in a hot condition by blowing the said hot mixture with an air blast against a plate arranged transversely to a stream of the hot mixture, and thereafter subjecting the agitated mixture to filtration while at a temperature of about 80° to 200° F. and thereby removing therefrom a large proportion of the water contained in the sludge.

1,917,517. BILL BANK. MARGARET GOSPEL, New York, N. Y. Original application filed Jan. 25, 1928, Serial No. 249,436, now Patent No. 1,760,901, dated June 3, 1930. Divided and this application filed Oct. 17, 1929. Serial No. 400,292. 3 Claims. (Cl. 232—4.)

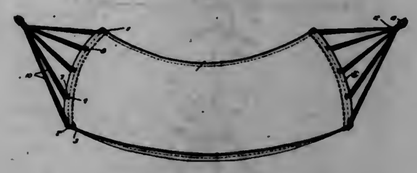
1. In a bank of the type having a container with a follower therein and a closure with a hook thereon; a ring mounted on the container for engagement with the hook of the closure and provided with a gap therein for releasing the hook when the ring is turned to register the gap with the hook, a ratchet wheel connected to the ring for turning

the same, and a lever pivoted to the container normally urged in one direction and having a pawl for engagement with said ratchet wheel, said lever having an inturned end



lying in the path of said follower for engagement by the money moved by the follower to swing the lever and turn the ratchet wheel and ring to release said hook.

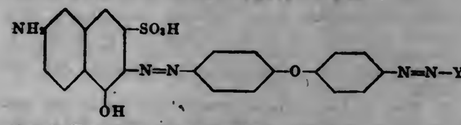
1,917,518. CANVAS HAMMOCK. CHARLES R. GOUDIE, Kansas City, Mo., assignor to The Carnie-Goudie Manufacturing Co., Kansas City, Mo., a Corporation of Missouri. Filed May 16, 1930. Serial No. 452,893. 1 Claim. (Cl. 5—120.)



The method of assembling a hammock including bending a cord to provide a plurality of double ply cord branches of different lengths bunched at one end for attachment to a support, adjusting the lengths of the branches to lengths required for engaging the spreader of the hammock to distribute the weight of the hammock through the branches, inserting the loops at the ends of the branches through slots into a pocket in the end edge of the hammock web, and passing a spreader into the pocket and through the loops to enable the cord branches to engage the spreader directly for supporting the web and closing the ends of the pocket to retain the spreader in said pocket.

1,917,519. AZO DYE AND METHOD OF MAKING SAME. ERNEST F. GRETHER, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed May 16, 1928. Serial No. 278,332. 15 Claims. (Cl. 260—77.)

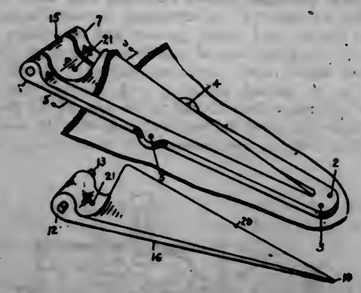
1. As new products, azo-dyestuffs including a dis-azo compound probably having the general formula,



wherein Y represents a pyrazolone residue.

1,917,520. KYLE. JOHN GRAY, New York, N. Y. Filed Jan. 9, 1932. Serial No. 585,791. 2 Claims. (Cl. 223—19.)

1. A kyle comprised of a narrow, resilient V shaped hinge member, upwardly turned ears on the open ends of the hinge member, bearings on said ears, a detachable wedge, snapable into said hinge and fittable in spaced relation within said V shaped hinge member, an upwardly

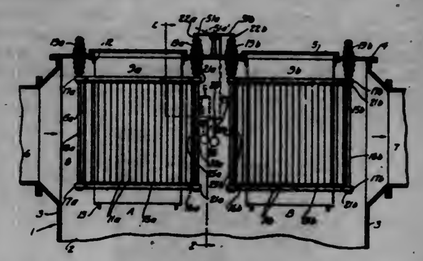


extending wedge shaped portion integral therewith, high at the wide end and low at the end opposite, an upwardly turned ear on said wide end and pivots on the said ear.

1,917,521. PROMOTION OF FERMENTATION. EDWARD W. HERR, Freeport, N. Y., assignor to Darco Sales Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 2, 1929. Serial No. 352,050. 5 Claims. (Cl. 195—20.)

1. The process of promoting fermentation of a fermentable solution which includes adding thereto an activated vegetable char containing a protein in the pores thereof.

1,917,522. ELECTRICAL PRECIPITATION APPARATUS. RICHARD HEINRICH, Berlin-Sudende, Germany, assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed June 20, 1932, Serial No. 618,327, and in Germany July 1, 1929. 4 Claims. (Cl. 183—7.)

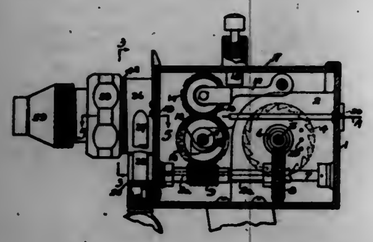


1. In an electrical precipitation apparatus provided with high tension electrode means and an energizing circuit connected thereto, rapping means mounted for movement between a position free of engagement with said high tension electrode means and a position of forcible engagement therewith, and means operable during each movement of said rapping means to and from said last-named position to open said circuit during each movement toward said last-named position and hold said circuit open during the time of such engagement and to close said circuit during the return movement toward said first-named position.

1,917,523. METAL SPRAYING DEVICE. ANDREW D. IRONS and DOMINIC L. WALDOCK, Highland Park, Mich. Filed Apr. 13, 1931. Serial No. 529,564. 2 Claims. (Cl. 83—91.)

1. A nozzle for metal spraying comprising a rear nozzle portion having three separate passages formed therethrough one for the passage of air, a second for oxygen,

and the third for another gas, a cone the rear face of which is seated against said rear nozzle portion and has grooves formed therein one of which registers with each of said passages, means retaining said cone in position, and an annular tip extending forward from said retaining means, said nozzle portion and said cones having aligned apertures formed axially therethrough for the passage of metal wire the front extremity of which is adapted to be melted adjacent said annular tip, said cone having holes therethrough from one of its grooves opening into the space between said annular tip and said cone through which air passes, said cone having other



holes extending longitudinally through its entire length from another of said grooves for the passage of oxygen, and said cone having a third set of holes therein extending from the third groove to the holes which extend through the entire length of said cone and terminating in the latter holes intermediately of their length for the passage of gas to be mixed with the oxygen so that the oxygen and gas are directly induced into said tip from their points of mixture, said oxygen and gas being adapted to be ignited adjacent said tip to melt the wire as it is fed through the cone, and the air being adapted to spray the melted wire.
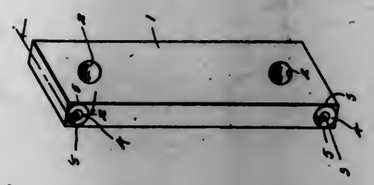
1,917,524. ROTARY PUMP. JOSEPH F. JAWOROWSKI, Cleveland, Ohio, assignor of five-eighteenths to Samuel E. Dettelbach, five-eighteenths to Sam Emerson and two-eighteenths to Edgar Hahn, Cleveland, Ohio. Filed Aug. 18, 1930. Serial No. 475,872. 1 Claim. (Cl. 103—123.)



In a rotary pump as described, a main body having a circular opening extending therethrough and a slot extending outwardly from said opening, and a ring-shaped division wall adapted to fit within said circular opening, having a straight extension adapted to occupy said slot, the extremity of said straight extension being slightly enlarged and adapted to engage the side walls of said slot to promote a centering fit of the ring portion of said division wall within said circular opening.

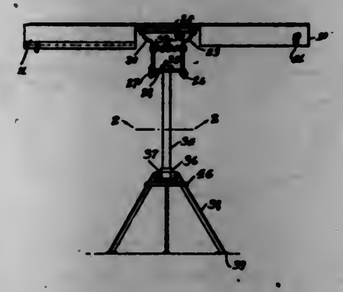
1,917,525. ROTARY HAMMER. SANNING C. JENSEN, Neola, Iowa. Filed June 23, 1932. Serial No. 618,966. 8 Claims. (Cl. 83—11.)

1. A rotary hammer comprising an elongated flat body having apertures therethrough at right angles to the longitudinal edges for the reception of supporting elements and further having at each end a passage formed there-



through from one longitudinal edge to the other, said passage being enlarged at each end to a width equal to the thickness of the body.

1,917,526. FOLDABLE TABLE. SIGMUND KANCLERS, Maspeth, N. Y. Filed Apr. 22, 1931. Serial No. 531,903. 2 Claims. (Cl. 45—116.)



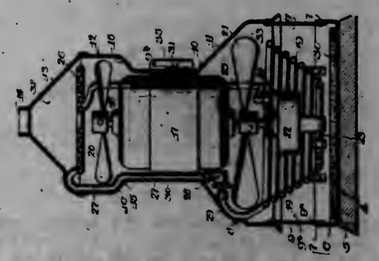
1. In a collapsible table a table top composed of two outer members and one inner member, to which the outer members are hingedly connected, a pair of transverse L-bars provided with holes at one end and with longitudinal slots on part of their length, at the other ends, a flanged plate, side bars attached at their outer ends to bolts sliding in said slots and at their inner ends pivotally secured to the flanges of said plate, a pair of other side bars, bolts on said last named side bars removably engaging the holes in said L-bars, and a spring controlled transverse bar having its ends loosely mounted in said last named side bars to allow a bringing together of said bars against the action of their spring for disengaging the bolts from said side bars, the inner ends of said side bars also pivotally connected to the flanges of said plate.

1,917,527. STRUCTURAL STEEL. ADOLF KLINKENBERG, Wittbraucke near Herdecke, near Hagen, Germany, assignor to Firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Filed Jan. 3, 1931, Serial No. 506,505, and in Germany Jan. 23, 1930. 4 Claims. (Cl. 75—1.)

1. Steel of great tensile strength for use in the construction of buildings, which may be subjected to great stresses, which steel contains about 0.1–0.2% carbon, about 0.5–0.6% copper, about 0.25–0.5% chromium, silicon in amounts ranging from 0.05 to 1.0% and manganese from 0.6 to 1.5%, wherein the content of at least one of the two constituents silicon and manganese is above 0.6% and the sum of the contents of both of said constituents ranges between 0.8 and 2%, while the balance of the alloy consists substantially of iron.

open so that the second blast of air will engage the deflected blast at a place spaced from the place where the deflected blast departs from the conveyor, and deaden the first blast of air enough to cause the grain that has been elevated from the conveyor by the deflected first blast of air to drop between the deflector and the end of the conveyor the deflected blast of air carrying the chaff on to the picker.

1,917,537. AIR COOLER. LEE W. MELCHER, Winnetka, Ill. Filed Aug. 1, 1930. Serial No. 472,361. 10 Claims. (Cl. 62—129.)



1. In an air cooler, the combination of a refrigerating unit comprising a compressor, an expansion coil, a condenser, and an electric motor having a vertically extending shaft connected to drive the compressor, a unitary casing for said unit provided with air inlets and outlets, and a chamber above the motor and a chamber be-

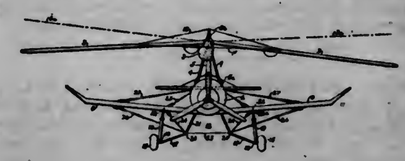
1,917,529. INDIVIDUAL BAR SUPPORT. [illegible], Chicago, Ill., assignor to Universal Form Clamp Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 19, 1931. Serial No. 557,985. 2 Claims. (Cl. 72—122.)



1. An individual bar support comprising a supporting section of inverted U-shape providing a pair of depending legs and a connecting horizontal shelf forming a seat for the bar, and a substantially V-shaped inclined brace section having its two legs bent downwardly to provide a pair of spaced arms, the outer extremities of said arms being welded to said shelf, all of the bent portions of said brace being spaced from the welded joints.

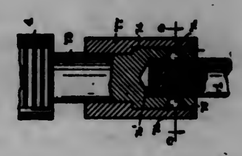
1,917,530. AIRCRAFT OF THE ROTATIVE-BLADE TYPE. AGNEW E. LARSEN, Huntingdon Valley, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a Corporation of Delaware. Filed Apr. 7, 1931. Serial No. 528,280. 8 Claims. (Cl. 244—2.)

1. In an aircraft alighting construction of the character described, a pair of N-strut-frames extending downwardly from the body of the craft, a pair of V-strut-frames each pivoted at the lower end of an N-strut-frame and extending outwardly therefrom, tie-rod means interconnecting the framing and connected thereto ad-



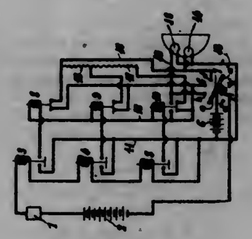
jacent the pivots, alighting devices mounted at the outer ends of the V-strut-frames, and substantially vertically-acting shock absorbers for the latter.

1,917,531. ELECTRIC ARC WELDING APPARATUS. JAMES F. LINCOLN, East Cleveland, Ohio, assignor to The Lincoln Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 9, 1931. Serial No. 561,906. 7 Claims. (Cl. 219—8.)



1. In electric arc welding apparatus, the combination of a welding electrode, a contact member for carrying the welding current snugly engaging said electrode and supporting the same for rotation about its longitudinal axis, a rotatable spindle in substantial axial alignment with said electrode, and means establishing flexible driving communication between said spindle and electrode.

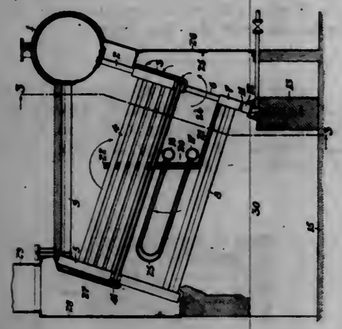
1,917,532. DEVICE FOR AUTOMATICALLY DIMMING THE LIGHTS OF AUTOMOBILES. RUDOLPH LOEWENSTEIN, Paris, France. Filed Apr. 9, 1931, Serial No. 528,951, and in Germany Mar. 5, 1930. 1 Claim. (Cl. 171—97.)



In a device for controlling the lights of a vehicle, when meeting an oncoming lighted vehicle, the combination with said lights, which include a main light and a dim light, of an electric circuit including a source of current, a selenium cell included in said circuit for varying the resistance thereof, a second source of current for lighting said main and dim lights, manually operated means for making and breaking the circuits of said main and dim lights separately, and the circuit of said selenium cell simultaneously with that of said main light, a resistance comprising a plurality of sections adapted to be brought into the circuit of said main light, a plurality of electromagnetic means for successively introducing said resist-

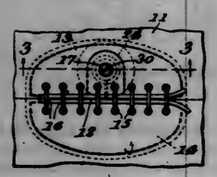
ance sections into said main light circuit and subsequently opening said main light circuit and closing the dim light circuit, and a plurality of relays responsive respectively to progressive increases of current produced by progressive decreases of resistance of said selenium cell for selectively operating said electromagnetic means.

1,917,533. WATER TUBE BOILER. CHARLES E. LUCKE, New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Jan. 9, 1931. Serial No. 507,574. 4 Claims. (Cl. 122—268.)
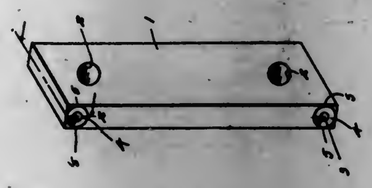


1. In combination, a combustion chamber, a water tube boiler with two tube banks spaced apart vertically between front and rear uptake and downcomer headers, the uptake header being continuous across the space, the downcomer header being interrupted and joined by nipples across the space, a baffle so constructed and arranged with respect to the tubes that it directs gases of combustion from said combustion chamber in two transverse passes, first across both upper and lower tube banks and second down across the upper bank ending in the space between them, gas tubes inside the tubes of the upper bank extending through their headers to the outside thereof, and connections to lead the gases from the end of the second transverse pass between said tube banks through the gas tubes of the upper tube bank.

1,917,534. INFLATABLE BALL. JOHN E. MAYNARD, Plymouth, N. H., assignor to The Draper-Maynard Company, Plymouth, N. H., a Corporation of New Hampshire. Filed May 20, 1930. Serial No. 453,986. 2 Claims. (Cl. 273—65.)



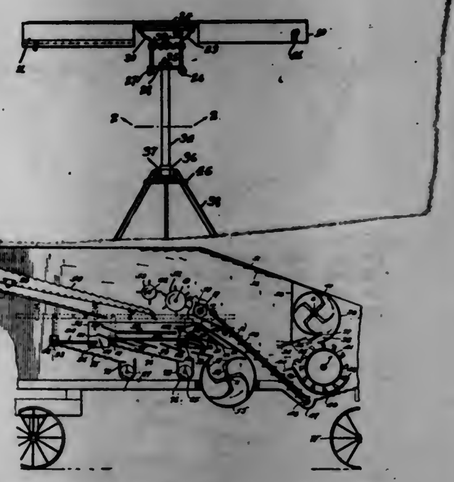
1. An inflatable ball comprising a cover having a bladder insertion opening, reenforcing stays connected with the inner face of said cover at opposite sides of said bladder insertion opening, a bladder having a valve structure attached thereto, said cover and said stays having a row of holes at each side of the bladder insertion opening, a lace adapted to be inserted in said holes to close said bladder insertion opening, the cover and one of said stays also

gitudinal edges for the reception of supporting elements and further having at each end a passage formed there-



through from one longitudinal edge to the other, said passage being enlarged at each end to a width equal to the thickness of the body.

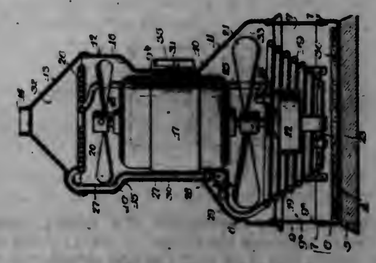
1,917,526. FOLDABLE TABLE. SIGMUND KANCLERZ, Maspeth, N. Y. Filed Apr. 22, 1931. Serial No. 531,903. 2 Claims. (Cl. 45—116.)



1. In a threshing machine, a concave, a cylinder rotatable above the concave, an upwardly and rearwardly inclined conveyor receiving material from the concave, means for discharging an air blast clear of the top of the cylinder, close to the upper, rear edge of the concave, and against the conveyor, said means comprising an outlet mouth disposed to the rear of the cylinder and close to the conveyor, the space between the outlet mouth and the conveyor being open and unencumbered, the conveyor having an upward and rearward inclination which approaches the vertical sufficiently to bring the place where the air blast from the outlet mouth impinges the conveyor close to the upper, rear edge of the concave so that the chaff travelling over said edge of the concave will be moved upwardly across the outlet mouth by the action of the conveyor as distinguished from the action of the cylinder, the inclination of the conveyor being sufficient to create an angle of blast incidence and an angle of blast deflection which will blow the chaff upwardly by the blast deflected from the conveyor before the blast has proceeded far enough to lose any appreciable amount of its force, a vertical deflector at the rear end of the conveyor, a picker journaled behind the deflector and located closely adjacent thereto, and means for directing a second blast of air against the deflector, the space above the deflector being

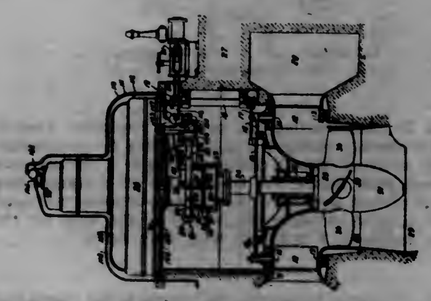
open so that the second blast of air will engage the deflected blast at a place spaced from the place where the deflected blast departs from the conveyor, and deaden the first blast of air enough to cause the grain that has been elevated from the conveyor by the deflected first blast of air to drop between the deflector and the end of the conveyor, the deflected blast of air carrying the chaff on to the picker.

1,917,537. AIR COOLER. LEE W. MELCHER, Winnetka, Ill. Filed Aug. 1, 1930. Serial No. 472,361. 10 Claims. (Cl. 62—129.)



1. In an air cooler, the combination of a refrigerating unit comprising a compressor, an expansion coil, a condenser, and an electric motor having a vertically extending shaft connected to drive the compressor, a unitary casing for said unit provided with air inlets and outlets, and comprising a chamber above the motor and a chamber below the motor in which the condenser and expansion coil are disposed respectively, and a pair of fans for forcing air through said chambers connected to be driven by the motor.

1,917,538. HYDRAULIC TURBINE. HJALMAR S. MESSING, Milwaukee, Wis., assignor to S. Morgan Smith Company, York, Pa., a Corporation of Pennsylvania. Filed Aug. 13, 1931. Serial No. 556,797. 19 Claims. (Cl. 253—148.)

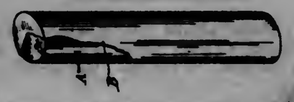


1. In a hydraulic turbine of the character described, the combination with a runner having blades movable into different angular positions, of blade adjusting means comprising friction rollers rotatable with the runner and also rotatable on their own axes, and a pair of non-rotating tracks, located at opposite sides of said rollers said tracks being spaced from the rollers when the blade adjusting means is inoperative and being movable axially of the runner to respectively cooperate with said rollers to cause them to rotate on their axes in either direction.

1,917,539. CONVERSION OF CELLULOSE. GEORGE W. MILES, Boston, Mass., assignor to Celanese Corporation of America, a Corporation of Delaware. Filed Jan. 15, 1930. Serial No. 421,054. 6 Claims. (Cl. 127—37.)

1. In the method of converting cellulose into simpler compounds by the action of an acid, the step of separating the reaction product by means of an organic liquid that forms a solution with the acid in which solution the reaction product is insoluble.

1,917,540. PLASTIC WATERPROOF COATING FOR BLASTING DYNAMITE AND THE LIKE. DAVID E. PEARSALL, Pittsburgh, Pa., assignor to The Ensign-Bickford Co., Simsbury, Conn., a Corporation of Connecticut. Filed Aug. 5, 1931. Serial No. 555,284. 4 Claims. (Cl. 102—6.)



1. An article of manufacture consisting of a blasting cartridge comprising a charge of explosive of the type embracing dynamite and blasting jellies, said cartridge having a skin coating of a plastic waterproof composition of substantially uniform thickness throughout, which is coextensive with the explosive.

1,917,541. CONTAINER. EDWARD D. PHINNEY, Mount Vernon, N. Y. Filed Dec. 19, 1929. Serial No. 415,228. 5 Claims. (Cl. 220—82.)



1. In a container for emergency equipment, a side formed of a flexible transparent material, weakening lines in said material placed in proximity to the inside edges of said side and a tab near one end of said side to permit easy tearing of said side.

1,917,542. BLOW-OFF MUFFLER. CURTIS W. PLOEN, Chicago, Ill., assignor to The Okadee Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 31, 1929. Serial No. 336,579. 5 Claims. (Cl. 137—160.)



1. A blow-off muffler embodying a fluid inlet and comprising a pair of members having tubular telescoping walls spaced laterally apart and operative to form a plurality

of concentric annular conduits through which the fluid is passed successively, and cross-walls for closing certain of the ends of the conduits, one of the members being provided with an integral deflector and a rim extending around the deflector and cooperating therewith to form a discharge opening substantially aligned with the exhaust end of the outermost conduit and adapted to permit the fluid to pass therethrough to atmosphere.

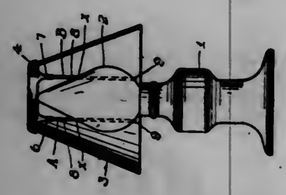
3. In a muffler of the character described, the combination of a member comprising a pipe-element having one end thereof adapted to receive fluid from a blow-off pipe and a substantially bell-shaped wall extending around said pipe-element and having the end thereof connected to the said one end of the element; a one-piece casting comprising a substantially cylindrical wall extending between and spaced laterally from the bell-shaped wall and pipe-element to form a pair of concentric annular conduits through which the fluid passes successively, an end wall for said cylindrical wall positioned adjacent the other end of the pipe-element, and means forming a pair of discharge openings, embodying a deflector joined to the meeting margins of the end and cylindrical walls, and a rim extending around the deflector and having an opening in which fits the free margin of the skirt of the bell-shaped wall; and means for securing the member and casting in connected relation.

1,917,543. COMBINATION SUPPORTING GARMENT. EVA M. RENSH, Canton, Ohio. Filed July 29, 1932. Serial No. 625,839. 6 Claims. (Cl. 2—27.)



1. Garments including a back member for fitting against the back of a body, said back member having an upper corner, a lower corner and an arm pit corner located substantially midway between said upper and lower corners, a connector strap having one end connected to said arm pit corner and its other end connected to said lower corner, and a shoulder strap connected at one end to said upper corner and having at its other end a looped sliding connection with said connector strap.

1,917,544. LAMP SHADE AND MEANS FOR SUPPORTING THE SAME. JOHN E. RICHMOND, Rochester, N. Y. Filed Sept. 9, 1932. Serial No. 632,431. 7 Claims. (Cl. 240—138.)

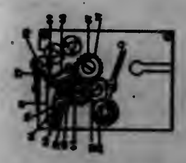


1. A combined electric lamp shade support and a finishing and strengthening ring of channel shape embracing the upper edge of the shade and secured thereto and having inwardly directed tubular elements forming sockets, and flexible supporting loop shaped members secured in said sockets and constructed and arranged to have embracing engagement with opposite sides of an electric light bulb to support the shade effectively on the bulb.

1,917,545. COMBINED ACID AND ALKALI PROCESS OF FIBER LIBERATION. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed May 1, 1929. Serial No. 359,626. 10 Claims. (Cl. 92—11.)

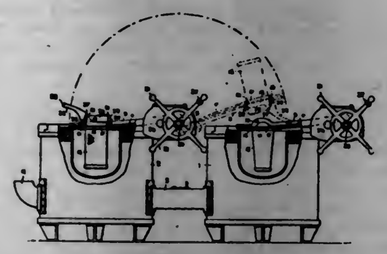
1. A process which comprises cooking raw cellulosic material in a sulphurous acid solution containing positively added and free sulphuric acid short of effecting fiber liberation into a pulp, and then cooking in an alkaline cooking liquid to complete fiber liberation.

1,917,546. TAXIMETER. AMADEO RIPOLL, Barcelona, Spain. Filed Sept. 14, 1929, Serial No. 392,687, and in Spain Sept. 17, 1928. 1 Claim. (Cl. 235—30.)



In a taximeter, the combination of a spindle, numeral drums carried loosely on the spindle, a pinion rotated from the flag spindle and rigid with the said spindle and having a projecting stud, a spring acting against the rotation of the pinion in one direction, a pawl provided to engage the said stud, a second spindle parallel with the first spindle and carrying rigidly thereon stops, projections related to the numeral drums and adapted to engage the said stops, a lever fixed upon the spindle provided with the stops, and a cam for operating the said lever.

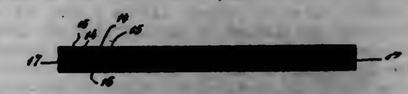
1,917,547. APPARATUS FOR TREATING AND HANDLING WORK. HEYMAN ROSENBERG, New York, N. Y. Filed Sept. 11, 1931. Serial No. 562,894. 17 Claims. (Cl. 266—4.)



1. In work treating and handling apparatus comprising a movably mounted transfer member for interchangeably receiving either a relatively fixed or a pivotally sustained work holder, the combination of a transporting lever pivoted to swing between places of work treatment, and an adapter removably carried by the lever for rigidly sustaining a relatively fixed work holder.

1,917,548. METHOD OF PRODUCING ENDLESS BELTS. THOMAS M. RUSSELL, Middletown, Conn., assignor to The Russell Manufacturing Company, Middletown, Conn., a Corporation of Connecticut. Filed Jan. 10, 1930. Serial No. 419,858. 5 Claims. (Cl 154—4.)

1. The method of making belts, which comprises winding a continuous web of straight cut fabric into a tube made up of a plurality of plies, the warp threads of the fabric extending circumferentially of the tube, subdividing the one piece tube so formed, into a plurality of



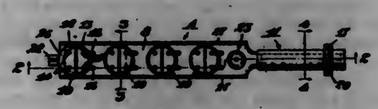
rings of trapezoidal and triangular section in alternation, wrapping each trapezoidal ring in sheet rubber, and vulcanizing said wrapped rings.

1,917,549. HAIR WAVER. BERTHA SAUNDERS, Hollywood, Calif. Filed Oct. 19, 1931. Serial No. 569,651. 15 Claims. (Cl. 132—33.)



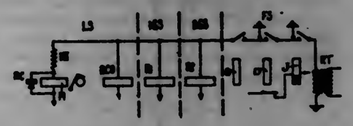
1. In a hair waver, a pair of elongated plates mounted one upon the other, a plurality of spaced projections on each of said plates providing for the winding of hair thereon, and means at certain ends of said plates for holding said plates together and for moving one plate longitudinally relative to the other whereby to stretch the hair wound on said plates.

1,917,550. HAIR WAVER. BERTHA SAUNDERS, Hollywood, Calif. Filed Apr. 5, 1932. Serial No. 603,240. 8 Claims. (Cl. 132—33.)



1. In a hair waver, a pair of parallel bars one of which is movable longitudinally relative to the other, a row of spaced wave forming members arranged along the length of said bars and protruding from one side thereof, each member comprising a pair of sections one of which sections is movable relative to the other and is fixed to the movable bar, and means for moving one of said bars longitudinally relative to the other bar.

1,917,551. TELEPHONE SYSTEM. WILLIS SAVILLE, Liverpool, England, assignor to Associated Telephone and Telegraph Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 28, 1931, Serial No. 518,942, and in Great Britain May 6, 1930. 9 Claims. (Cl. 179—9.)



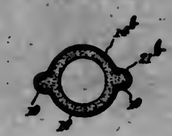
1. In a telephone system wherein a calling subscriber's meter is operated over a holding conductor over which a current flow must be constantly maintained to prevent release of an established connection; means for introducing a source of alternating current, in the holding circuit, to operate the meter; and means for preventing its being repeatedly operated during the time the alternating current remains in the holding circuit.

1,917,552. DYNAMO-ELECTRIC MACHINE CONSTRUCTION. WILLIAM G. SCHNEIDER, Maumee, Ohio, assignor to The Electric Auto-Lite Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 2, 1928. Serial No. 316,747. 4 Claims. (Cl. 171—209.)



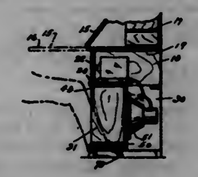
1. In a dynamo-electric machine a curved frame formed of steel, an armature having peripheral teeth and slots; a plurality of separate pole pieces secured to said frame, said pole pieces comprising an arcuate shaped section of rolled steel, said pole section having its back surface portion curved to intimately contact against a portion of the inner surface of said frame, a polar face portion having a zone substantially concentric with the axis of the dynamo-electric machine, substantially flat side surfaces intercepting said polar surface at acute angles, both edges of said polar face being out of simultaneous registration with armature slots.

1,917,553. HOSE UNION. ALBERT J. SCHOLTES, Baltimore, Md. Filed Dec. 14, 1932. Serial No. 647,258. 1 Claim. (Cl. 285—120.)



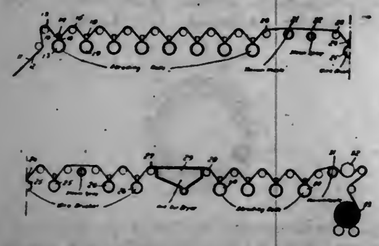
A hose union including a sleeve having diametrically opposed outwardly pressed portions to form housings, and a flexible washer having diametrically opposed projecting parts adapted to be squeezed together to enter the sleeve and to be subsequently expanded to allow the projecting parts to enter the outwardly pressed portion to be housed therein to prevent rotation of the washer and to prevent air pockets from forming in said union.

1,917,554. ARTICLE OF FURNITURE. RAY REGINALD SHEARER, Cleveland, Ohio. Filed Aug. 24, 1931. Serial No. 558,972. 4 Claims. (Cl. 274—2.)



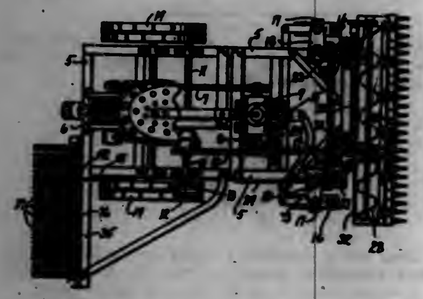
1. A cabinet having a compartment for a speaker unit, said compartment being formed by four walls comprising a top wall, two side walls and a partition wall dividing said compartment into two sub-compartments by being connected to the top wall and the said side walls whereby one of said sub-compartments has only four walls including the partition wall and thus forming a resonance chamber and a speaker unit mounted in the other of said compartments, the speaker unit being arranged in said last named subcompartment to entirely close a large opening formed in said partition wall whereby the speaker unit will direct the sound produced thereby to said resonance chamber.

1,917,555. METHOD OF FINISHING CARPETS. HOWARD L. SHUTTLEWORTH, Amsterdam, N. Y. Filed Oct. 21, 1931. Serial No. 570,195. 8 Claims. (Cl. 26—2.)



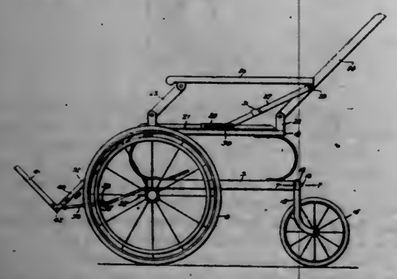
1. A method of finishing a pile fabric which comprises subjecting the pile surface to abrasion in opposite directions to remove the scales from the fibres of the pile to a substantial depth and soften the appearance of the fabric.

1,917,556. COMBINATION MOWING AND CULTIVATING MACHINE. MARK SOSS, Spokane, Wash. Filed Oct. 5, 1931. Serial No. 566,896. 3 Claims. (Cl. 56—25.)



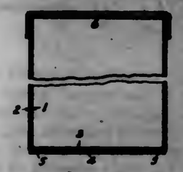
1. In a combination mowing and cultivating machine of the character described comprising a frame, a pair of upstanding box brackets fixed to the forward end of the frame, a pair of shoe bars slidably mounted in said brackets and having rack teeth, means for raising and lowering said shoe bars comprising levers with quadrants having teeth in mesh with the rack teeth on the shoe bars and means for securing agricultural implements such as mowing and cultivating attachments to the lower shoe ends of said shoe bars.

1,917,557. WHEEL CHAIR. CLARENCE C. STEIGER, Jefferson City, Mo. Filed Aug. 4, 1931. Serial No. 555,130. 2 Claims. (Cl. 155—30.)



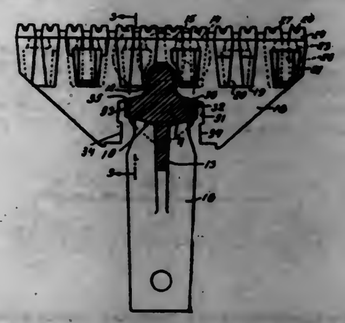
1. In a chair of the class described, a frame, a channel-shaped axle connected with the front part of the frame, a spindle member pivotally connected to each end of the axle, a slight distance from the end of the axle whereby said spindle member is adapted to be placed in a position with the spindle extending from the end of the axle to receive a wheel, or the spindle member can be swung to a position where the member and its spindle can be located within the channed of the axle, after the wheel has been removed, a wheel on the spindle of each member, a flange on the hub of each wheel, a retainer connected with the frame and engaging the flange for removably holding the wheel on the spindle, said wheels when removed being adapted to be placed between the frame and the seat and means for holding the wheels in position between the frame and the seat.

1,917,558. METHOD OF AND MEANS FOR THE MANUFACTURE OF CONTAINERS OF PAPER OR LIKE MATERIAL, AND LIDS OR COVERS THEREFOR. CYRUS TAYLOR, Hartford, Conn., and ELMER ZEBLEY TAYLOR, Newark, N. J. Filed Mar. 27, 1929. Serial No. 350,896. 5 Claims. (Cl. 93—39.)



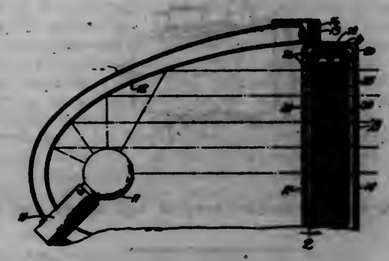
1. The combination in a container-making machine of a pasting device adapted to apply adhesive to a web of material, a series of mandrels mounted on an intermittently rotated holder, means for rotating such mandrels and thus winding the web convolutely thereon, means active prior to the winding for crushing the web at suitable points to cause the ends of the blanks to be tapered off to a comparatively thin edge, means for severing the web at such points after it has been partially wound on one of the mandrels, means for creating a vacuum within the mandrels whereby the severed end of the web will be drawn to and held by the mandrel during the winding operation, and means for cutting a disc of material for the end of the article and applying it to the end of the mandrel and causing it to be held there by the vacuum.

1,917,559. GRATE BAR. JAMES S. THOMPSON, New Rochelle, N. Y., assignor to Firebar Corporation, Cleveland, Ohio, a Corporation of Delaware. Filed Mar. 28, 1930. Serial No. 439,686. 4 Claims. (Cl. 126—180.)



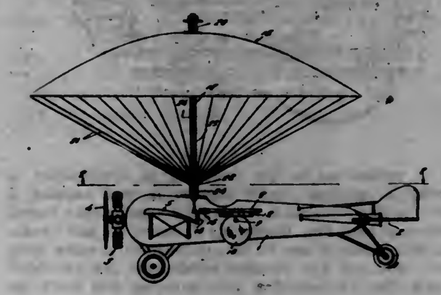
1. A grate bar which comprises a longitudinal member, and fuel supporting units extending beyond the side edges of said member, each unit comprising a plate and lugs projecting from the sides of the plate alternately in opposite directions, each lug having an air chamber in it provided with an inlet opening through the face of the plate and an outlet opening at the top.

1,917,560. VEHICLE LIGHT DIRECTOR. EDWIN S. TIMMONS, Chicago, Ill. Filed Nov. 30, 1931. Serial No. 577,945. 10 Claims. (Cl. 240—48.4.)



1. In a light director, the combination with a bowl-shaped lens, a plurality of vanes disposed within the lens and parallel to the axis thereof, rods for supporting the vanes within the confines of the bowl-shaped lens, and opposed springs attached to the centers of the supporting rods whereby the vanes are resiliently held against excessive horisontal thrust.

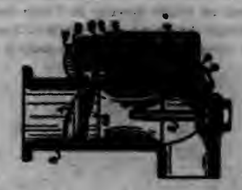
1,917,561. AEROPLANE. VITO LEONETO VOLPICELLI, Scranton, Pa. Filed Oct. 11, 1932. Serial No. 637,303. 1 Claim. (Cl. 244—17.)



An aeroplane comprising a fuselage, an engine mounted on the fuselage, a propeller operatively connected to the engine for actuation thereby, stationary wings mounted on the fuselage, pivoted wings hingedly mounted on the fuselage, a shaft journalled transversely of the fuselage and projecting therefrom beneath the pivoted wings, means operatively connecting the shaft to the engine for actuation thereby, rollers journalled on the lower side of the pivoted wings, cams fixed on the shafts and engaged with the rollers for actuating the pivoted wings in one direction, arms mounted on the free end portions of the pivoted wings, and coiled springs extending between the arms and the stationary wings for actuating the pivoted wings in the opposite direction.

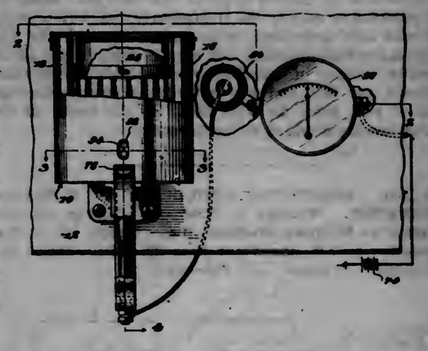
1,917,562. CARBURETOR. REINHOLD VON BECKER, Darmstadt, Germany, and JEREMIE DJORDJEVITCH, Paris, France. Filed Apr. 4, 1932, Serial No. 603,181, and in Germany Apr. 9, 1931. 7 Claims. (Cl. 261—34.)

1. In a spray carburetor controlled by a throttle valve, in combination with said throttle valve, an auxiliary fuel supply pump, comprising a cylinder having a fuel admission port and a fuel outlet port, a piston in said cylinder adapted to open said fuel admission port only when in a position corresponding to a predetermined position of the throttle valve, one of the parts of said pump having



an air escapement port, and means for closing said air escapement port at the latest simultaneously as the fuel admission port is shut by said piston.

1,917,563. CIGARETTE CONTAINER, IGNITER, AND EJECTOR. VERNON S. WERNER, Morris, Ill. Filed Sept. 3, 1931. Serial No. 561,082. 6 Claims. (Cl. 312—86.)

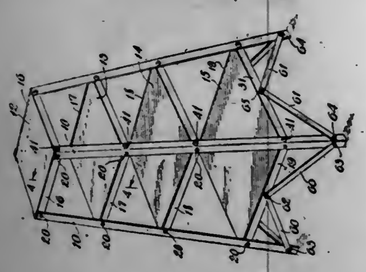


1. In a smoker's article of the character specified, a holder, a rotatable cigarette carrier within said holder, means for intermittently turning the holder for the successive presentation of the cigarettes carried thereby to a lighting and ejecting position, a leaf spring rigidly attached to said means, a handle rigidly attached to said leaf spring in spaced relation to said means, leaving the intervening portion of the spring free to be flexed, a combined lighter and ejector mounted on said means, electrical contacts carried by said handle and said combined lighter and ejector and adapted for mutual engagement upon the flexing of said spring, and a spring to normally hold said means and said combined lighter and ejector in retracted positions.

1,917,564. DISPLAY RACK. EDWARD B. WESTON, Dayton, Ohio; Wellmore B. Turner and W. G. Clark, executors of said Edward B. Weston, deceased. Filed Jan. 15, 1932. Serial No. 586,815. 3 Claims. (Cl. 211—135.)

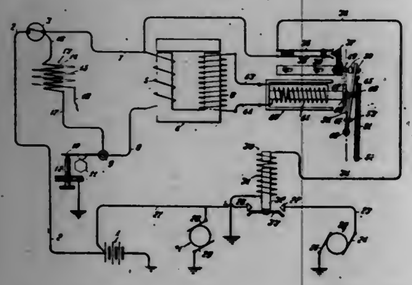
1. A knock-down all-metal rack construction including a pair of converging standards and a plurality of removable rectangular horisontal shelves of decreasing dimension upwardly; each of said standards including inwardly-sloping substantially vertical side angle members fitting about the corners of the shelves and a plurality of transverse angle members right angular in cross-section, the vertical portions of which transverse members extend upward and are permanently riveted to the side members at their ends and the horisontal portions of which extend inward toward the other standard, the transverse members being vertically spaced the distance it is desired to space the shelves and the size and shape of said

angle side and transverse members being substantially the same; each of said shelves consisting of flat pieces of rectangular shape, squared pieces having been removed from the corners and the resulting projecting portions having been bent at right angles to form flanges of substantially the same depth as the vertical and transverse angle members previously described, which flanges will



be separated by narrow slots at said corners; holes being provided in each of the side members midway between the base and outer edge of the flange opposite the riveted connections described and also in pairs in one set of opposite flanges of said shelves adjacent the corners thereof; and bolt and nut connections passing through each of said holes the nuts being on the inside of the corner and the heads of the bolts outside.

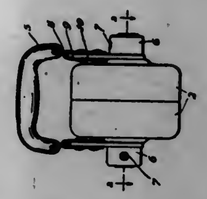
1,917,565. MEANS FOR PRODUCING AN ELECTRIC CURRENT. WILLIAM J. WILLIAMS, Chicago, Ill., assignor to Williams Products, Inc., Chicago, Ill., a Corporation of Illinois. Filed June 22, 1931. Serial No. 546,064. 9 Claims. (Cl. 290—38.)



1. An automotive current producing means comprising in combination, an ignition coil, an ignition circuit breaker, a starting motor and a magnetic circuit breaker therefor, a relay for controlling said magnetic circuit beaker, a transformer including a pimary and a secondary winding, the pimary winding being in parallel with the ignition coil and the secondary winding being operatively connected to the relay and a source of direct current operatively connected to the ignition coil and to said primary winding, said ignition circuit breaker being so connected in the circuit of said primary winding as to interrupt the feed of direct current thereto so as to produce an alternating current in the secondary winding for operating the relay.

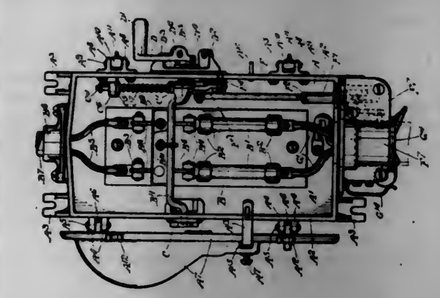
1,917,566. EXERCISING BELL. ROBERT ALFRED WOOD, Chicago, Ill. Filed Aug. 6, 1928, Serial No. 297,664. Renewed Jan. 20, 1932. 4 Claims. (Cl. 272—84.)

1. In a device of the character described, a bar, a plurality of discs having central openings receiving the bar, stop collars adjustably and removably secured on the bar, and a handle having attaching members receiv-



ing the bar and confined between said collars and the discs.

1,917,567. SAFETY SWITCH. WILLIAM A. WULLE, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a Corporation of New Jersey. Filed Jan. 10, 1931. Serial No. 507,812. 8 Claims. (Cl. 200—50.)



1. A switch mechanism including in combination, a housing, a movable switch member in said housing, a cover for said housing, a crank for actuating said switch member, a cam disc immovably fastened to said crank, said disc having a gap in its cam surface, a tooth lying within said gap and movable within said gap relatively to said disc, an operating lever carrying said tooth for initiating movement of said disc, a spring connected to said disc for completing movement thereof with snap action, a rod pivoted to said disc and carrying said spring, a bearing for said rod with respect to which said rod is movable, said rod, spring and disc constituting a toggle mechanism for moving said crank to actuate said switch after the initial movement thereof by said lever and cam disc.

1,917,568. FOUNTAIN PEN. BENJAMIN F. WUPPER, Chicago, Ill., assignor, by mesne assignments, to The Parker Pen Company, Janesville, Wis., a Corporation of Wisconsin. Filed Nov. 15, 1929. Serial No. 407,315. 1 Claim. (Cl. 120—47.)



A fountain pen, the combination with a barrel serving as an ink reservoir, of means providing an air passage leading from atmosphere at the forward end of the barrel

to the inner rear portion thereof, and unitary structure for varying the air pressure in the barrel through said passage comprising a metallic bellows having only one end open and constituting an extension of said reservoir in all of the different movable positions of the bellows, means for detachably securing the open end of said bellows in said barrel, exteriorly accessible means connected to the closed end of the said bellows for collapsing the same, a second means detachably secured to the end of the barrel for guiding said bellows-collapsing means and serving as an abutment for the end of the bellows to limit the outward movement thereof and another means detachably secured to and supported by said second means for concealing said bellows-collapsing means, said bellows being resilient whereby it tends to return itself to normal position following the collapsing thereof.

1,917,569. LOOSE LEAF FASTENER. PEYTON H. BARKLEY, Chicago, Ill., assignor to C. L. Barkley & Co., Chicago, Ill., a Copartnership consisting of Peyton H. Barkley and Charles L. Barkley. Filed Apr. 4, 1932. Serial No. 602,999. 1 Claim. (Cl. 24—153.)



A loose-leaf fastener for binders, consisting of an elongated metal strip having a medial tongue and having a pair of adjacent tongues at each end portion cut therefrom and normally lying in the plane of the strips, said tongues being axially alined and of substantially equal length, and being adapted to be selectively bent to enter differently spaced openings in different sheets to clamp the sheets to the binder.

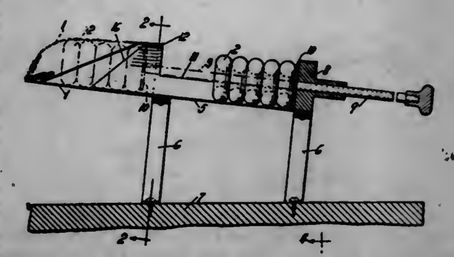
1,917,570. MOP HANDLE CONNECTION AND METHOD FOR MAKING THE SAME. JOSEPH W. BARTON, Chicago, Ill., assignor to O-Cedar Corp'n., Chicago, Ill., a Corporation of Illinois. Filed June 13, 1931. Serial No. 544,091. 5 Claims. (Cl. 113—116.)



1. As an article of manufacture, a coupling for connecting a mop handle to a mop head, said coupling being formed of a single longitudinally split socket having a continuous thread of an extent greater than one-half of the circumference of the socket, and an endless collar for preventing separation of the edges adjacent the split, said collar including an annular reinforcing flange disposed over one end of the coupling.

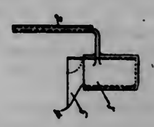
5. The method of forming a coupling for connecting a handle to a mop or the like, which comprises the steps of forming a blank in the shape of a T, forming spaced openings in the outer end of the shank of the T, equally spaced from the center axis of the shank, forming a groove in the head of the T in a direction inclined to said axis, and bending the blank about said axis so that the head is given a substantially cylindrical shape, and the sides of the shank are folded upon each other with said openings in register with each other, and reinforcing the cylindrical portion against expansion.

1,917,571. LOADING APPARATUS. LOGAN A. BECKER, Lakewood, Ohio. Filed July 1. 1931. Serial No. 548,064. 1 Claim. (Cl. 226—18.)



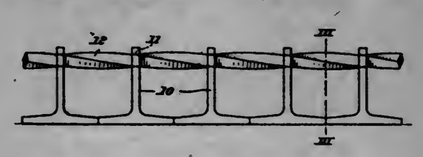
A device for loading articles in bags or containers, comprising a shell substantially circular in cross section and of uniform width throughout and permanently supported in an inclined position on a base and having an opening through which the articles are introduced and stacked in the lower end of the shell, a plunger mounted in the lower end of the shell and movable longitudinally thereof, the upper end of the shell being open and tapered forwardly to open and receive the containers to provide a support for the articles to the outer end of the shell.

1,917,572. CAPILLARY PEN. GEORGE S. BINCKLEY, Los Angeles, Calif. Filed Apr. 14, 1931. Serial No. 529,957. 7 Claims. (Cl. 120—43.)



1. The combination with a reservoir for line forming liquid, of a capillary pen adapted for placement therein; said capillary pen including a body formed with a relatively narrow capillary channel extending substantially throughout the body length, and nibs in communication with said capillary channel.

1,917,573. GRATING STRUCTURE. PAUL T. BLACK, Dormont, Pa. Filed Apr. 12, 1932. Serial No. 604,686. 6 Claims. (Cl. 94—30.)

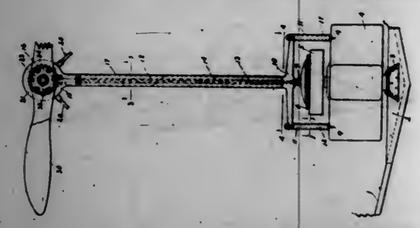


1. In a grating structure, the combination with a plurality of spaced metallic sections having non-circular holes therein, of a preformed rod having helical surfaces and a non-circular cross section, threaded through said holes for locking said sections in spaced relation.

1,917,574. FLYING MACHINE. HARRY T. BOOTH, Freeport, N. Y. Filed Mar. 30, 1931. Serial No. 526,166. 9 Claims. (Cl. 244—25.)

8. In combination with a flying machine, of a motor, a vertical shaft driven by the said motor, a propeller

driven by the said shaft, a tube encasing the said shaft, a tube base bracket and a tube head bracket holding the



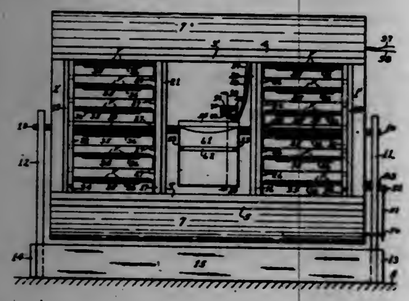
said tube at either end, and a pair of long bolts mounted parallel to the said shaft and connecting the brackets top and bottom.

1,917,575. WHEEL BALANCING. BENTON CATALINE, Flint, Mich., assignor, by mesne assignments, to Kelsey-Hayes Wheel Corporation, a Corporation of New York. Filed Aug. 26, 1929. Serial No. 388,374. 12 Claims. (Cl. 301—5.)



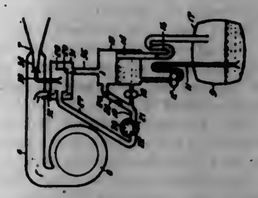
7. In a wheel including a rim member having a base portion provided with an opening therethrough, a weight insertable through the opening from one side of the base and having portions engaging the base at the opposite side thereof, and means for securing the weight to the rim member.

1,917,576. OSCILLATORY INCUBATOR. BENJAMIN H. CLEM, New Madison, Ohio, assignor of forty-nine per cent to J. A. Flaig & Son, New Madison, Ohio, a Firm. Filed Feb. 25, 1932. Serial No. 595,043. 5 Claims. (Cl. 119—37.)



1. An incubator having a body substantially round in cross section, means for forming the interior of said body into a plurality of intercommunicating sections, a door for closing the entrance to each section, means for removably supporting egg trays in certain of said sections, means provided for the circulation of air through all of said sections and trays, a shaft extending centrally through said body and on which the body is adapted to oscillate, an air conditioning unit located inside said body and suspended from said shaft but not oscillatable with said body, and means for supplying electric current to operate said air conditioning unit.

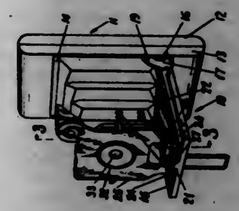
1,917,577. FUEL MIXER. WILLIAM A. DOBLE, Jr., Berkeley, Calif. Filed Nov. 26, 1928. Serial No. 321,890. 5 Claims. (Cl. 261—29.)



1. A fuel mixer including a conduit having a venturi therein, means for causing a current of air to flow thru said conduit, a source of liquid fuel, a pump for mixing said fuel with air to form a fuel foam, a container to receive said fuel foam from said pump, and a duct connecting said container and said conduit thru which said fuel foam is aspirated by said current of air.

5. A fuel mixer including a conduit, a container, means for producing and supplying fuel foam to said container, means for aspirating fuel foam from said container into said conduit, and means for regulating the amount of fuel foam produced in accordance with the amount of fuel foam aspirated.

1,917,578. PHOTOGRAPHIC FOLDING CAMERA. EUGENE FARKAS, Brooklyn, N. Y. Filed July 29, 1932. Serial No. 626,111. 5 Claims. (Cl. 95—40.)

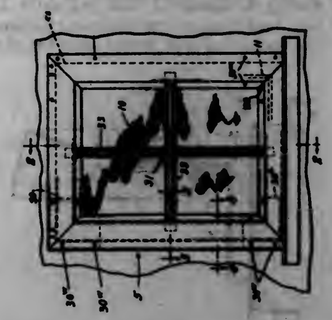


1. In a folding camera, the combination with a casing having an aperture in its front face, a pivot pin at the lower end of said aperture, a door mounted on said pivot pin and adapted to be swung outwardly in right-angular relation with said casing, an extension bed fastened to said door and comprising two parallel rails, a lens carriage adapted for sliding engagement in right-angular relation with said rails and movable thereon to focusing position, yielding spring means integral with said extension bed for tensioning the lens carriage in an upward direction against the rails when the said carriage is in focusing position and grip means integral with said carriage and adapted for engagement with said pivot pin for swinging said extension bed in parallel relation with said casing when said carriage is disengaged from said rails.

1,917,579. WINDOW SCREEN CONSTRUCTION. CHARLES H. GALLAGHER, Los Angeles, Calif. Filed June 20, 1932. Serial No. 618,243. 3 Claims. (Cl. 156—14.)

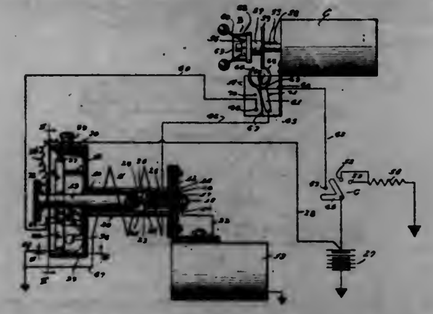
1. In a window frame construction, a sheet metal tubular member surrounding the window opening, said tubular member having a groove extending thereabout to receive the edge portion of the window screen, retaining means insertable into said groove to hold the screen in stretched operative position, the bottom of said groove being in

spaced relation to the rear wall of said tubular member, and a sheet metal bracing member comprising an arm provided with an outwardly directed end flange or lip,



said lip projecting into the space between said groove bottom and rear wall, said tubular member having a slot through its inner wall through which said lip projects.

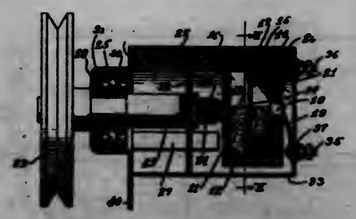
1,917,580. AUTOMATIC STARTING SYSTEM AND CONTROL FOR HYDROCARBON ENGINES. GEORGE A. GILLEN, Bronx, N. Y., assignor to Oakes Products Corporation, North Chicago, Ill., a Corporation of Michigan. Filed Dec. 26, 1931. Serial No. 583,322. 7 Claims. (Cl. 175—375.)



4. In an electrical system, the combination of an electromagnetic switch comprising a coil and an armature movable in response to current flow through said coil, a current supply circuit for said coil, a working circuit, switch contacts for said working circuit adapted to be engaged by the movement of said armature to close said working circuit, means tending to separate said contacts, and electromagnetic means associated with said contacts for causing shearing action between them to assist separation thereof by said separating means upon cessation of current flow through said coil.

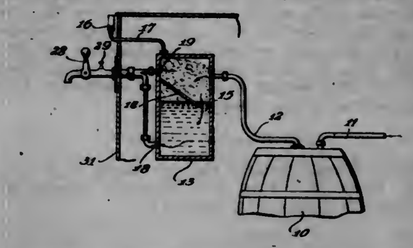
1,917,581. CENTRIFUGAL MERCURY SWITCH. GEORGE A. GILLEN, Bronx, N. Y., assignor to Oakes Products Corporation, North Chicago, Ill., a Corporation of Michigan. Filed Jan. 25, 1932. Serial No. 588,728. 2 Claims. (Cl. 200—80.)

1. A centrifugal switch comprising a container rotatable on a horizontal axis, a vertical partition dividing said container into an inner concave chamber and an outer cylindrical chamber of greater radial extent than said inner chamber, said chambers being concentric with the axis of rotation of the container, a contact projecting into said inner chamber at the apex thereof, restricted passageways through said partition adjacent to the outer end of said inner chamber, electrically conductive fluid in said chamber normally at a level to engage said contact when the fluid is not subjected to centrifugal action, the inclined wall of said inner chamber causing the fluid to be crowded from the inner chamber through said restricted passageways and to the outer chamber when said



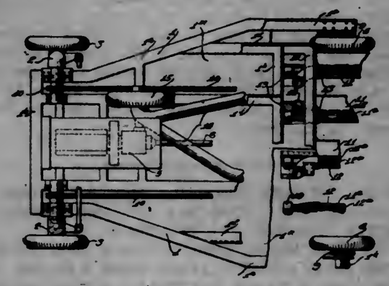
fluid is subjected to centrifugal action by the rotation of said container whereby the fluid will be withdrawn from said contact, said restricted passageways retarding the return of the fluid to said inner chamber and in engagement with said contact after release of said fluid from centrifugal action.

1,917,582. BEER SEPARATOR AND DISPENSING FAUCET. ARTHUR GORDON, Chicago, Ill. Filed Mar. 27, 1933. Serial No. 662,914. 8 Claims. (Cl. 225—9.)



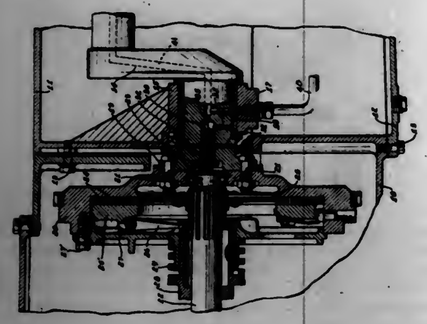
1. In a device for dispensing a beverage under pressure, the combination of a separator tank having an inclined baffle plate disposed therein for separating the beverage proper from the foam, and means for simultaneously drawing off said beverage and foam from said separator tank.

1,917,583. THRESHING MACHINE. ARCHIBALD J. GRIFFIN, Yuma, Ariz. Filed Nov. 27, 1931. Serial No. 577,434. 17 Claims. (Cl. 56—126.)



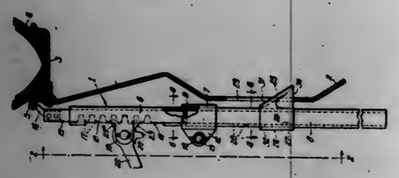
1. In a threshing machine, a plurality of spaced apart horizontally disposed craning booms, said booms inclined laterally whereby the upper margin of one overhangs the lower margin of the adjacent boom, deflecting portions formed at the extremities of said booms for bending or craning plants laterally with respect to said booms, and seed collecting means associated with said booms.

1,917,584. LUBRICATING MEANS. JAMES G. HEASLET, Shaker Heights, Ohio, assignor to The Cleveland Tractor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 24, 1930. Serial No. 423,119. 6 Claims. (Cl. 184—6.)



1. In a power transmitting mechanism, a crank shaft having a passage extending axially through the rear end thereof, a pressure lubricating system for the crank shaft connected with the passage in the crank shaft, a propelled shaft mounted with an end adjacent the rear end of the crank shaft, and wicking projecting from the crank shaft passage conducting oil to the end of the propelled shaft, said rear shaft end having relief passage extending radially from the axial passage through which excess oil in the axial passage is thrown by centrifugal force during rotation of the crank shaft.

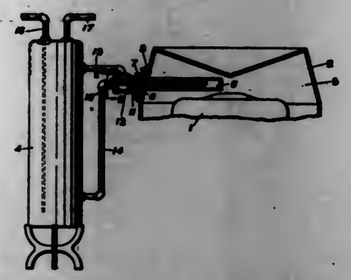
1,917,585. JACK. TRUMAN HILL and ERVIN H. ZIMMERMAN, Perry, Ill. Filed July 30, 1932. Serial No. 626,402. 2 Claims. (Cl. 157—6.)



1. In combination in a jack, a frame, a pressure applying bar telescoping the frame, an operating lever mounted on the frame at one side thereof, operating connections between the lever and the bar, a foot member adjustable lengthwise of the frame and projecting from the opposite side of and substantially at right angles to said frame, and means for securing the foot member in adjustment on the frame.

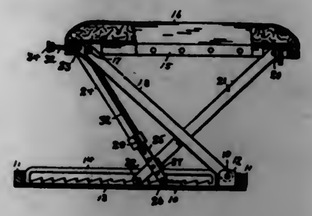
1,917,586. WATER HEATER. JOSEPH L. HUBER, Indianapolis, Ind. Filed Mar. 16, 1931. Serial No. 522,919. 2 Claims. (Cl. 257—254.)

1. In liquid heating plants having a spur liquid circulating means serving to extend within a heating device having a hole in its side wall therefor, a flange serving to be secured to a corresponding exterior surface of such heating device, a sleeve formed on such flange, said sleeve having an opening therethrough which serves to register with the corresponding hole in the wall of such heating device, a cylindrical housing disposed through said opening and serving to extend within the heating device, said housing having an enlarged partly spherical surface which serves to fit and be rotated to different positions in said sleeve, and permit said housing to be adjusted angularly to different positions as desired, said housing having a closure at both the outer and inner ends, a tube fixed through the outer end closure of said housing and extending well within said housing, a con-



duit connection formed through the wall structure of said housing exteriorly of the heating device, whereby liquid to be heated may enter said housing through said tube and exit therefrom through said conduit connection, and means to adjustably lock said enlarged housing portion in said sleeve.

1,917,587. ADJUSTABLE HEADREST. CHRISTIAN M. JACOBSEN, Newcastle, Ind. Filed Oct. 22, 1931. Serial No. 570,410. 4 Claims. (Cl. 27—13.)

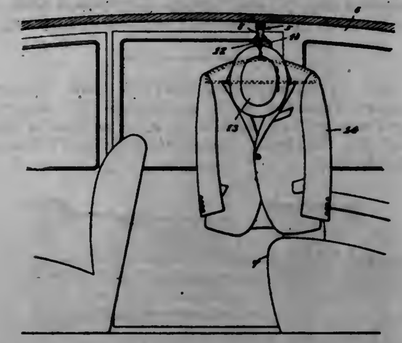


1. A device of the kind described, comprising a base, a head rest, rack teeth on the base, support means having pivotal connection at its one end with the base, and at its other end with the end portion of the head rest, support means having pivotal connection with the other end portion of the head rest and its lower end being engaged with said rack teeth, a telescopic member between the base and one end of the head rest, means operable to unite the sections of said telescopic member against movement one on the other when the head rest is in adjusted position, and operable to disunite said sections to permit them to move, one on the other, when the position of the head rest is to be adjusted.

1,917,588. CLOTHES HANGER. JOHN AL JOHNSON, Rockford, Ill. Filed Dec. 31, 1931. Serial No. 584,024. 1 Claim. (Cl. 211—32.)

A combination coat and hat hanger, adapted for use in automobiles and other places, comprising an elongated flat tongue of flexible material adapted to be suspended by one end on the longitudinal center line of the tongue, said tongue having a pair of laterally spaced openings provided therein near the lateral edges of the tongue on opposite sides of the center line and at a distance below the point of suspension, said openings being suitable for entering therein the hook of a coat hanger for suspension on said tongue, and the location of said openings being such as to cause flexing of the lateral portions of the tongue

rearwardly so as to cause the middle portion to protrude forwardly relative thereto, and said tongue having another opening provided therein at the lower end of the middle



portion adapted to receive a hat hanger, the hat hanger being thereby suspended in a plane parallel with the coat hanger but forwardly spaced with respect thereto.

1,917,589. PNEUMATIC SHOCK ABSORBER. PETER W. KANE, Chicago, Ill. Filed Sept. 15, 1930. Serial No. 481,826. 13 Claims. (Cl. 188—88.)



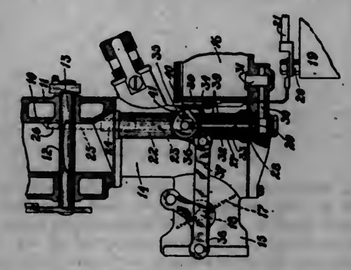
1. A pneumatic shock absorber comprising a cylinder having closed ends, a pair of spaced connected main pistons reciprocable in the cylinder, auxiliary pistons positioned and reciprocable in said cylinder between said main pistons and the ends of the cylinder, the said main and auxiliary pistons being ported and having valve means thereon controlling said ports, chain means arranged limiting movement in one direction of said auxiliary pistons, the cylinder being ported intermediate said main pistons, conduit means forming a fluid connection between ports in said cylinder adjacent the ends thereof and compression chambers defined by each of said main pistons and adjacent auxiliary piston when the said pistons are in their normal position of rest, pressure-relief valves controlling said conduits, and driving means connected to said pistons.

1,917,590. MEANS FOR CONDUCTING FLUIDS TO RECIPROCATING PARTS OF MACHINERY. KARL OTTO KELLER, Sunderland, England, assignor to William Doxford & Sons Limited, Sunderland, England, a British Company. Filed Jan. 6, 1933, Serial No. 650,461, and in Great Britain Feb. 19, 1932. 5 Claims. (Cl. 123—176.)



1. In a machine the combination of a reciprocating part whereto a fluid is to be supplied, a flexible tube connected at one end to said reciprocating part and at the other end to a fixed part of the machine, a floating guide engaging said tube and means controlling the movement of said guide whereby it maintains said tube taut.

1,917,591. CARBURETOR PRIMER. CHARLES H. KIRBY, Flint, Mich., assignor to Marvel Carbureter Company, Flint, Mich., a Corporation of Illinois. Filed Sept. 18, 1929. Serial No. 392,311. 9 Claims. (Cl. 123—179.)



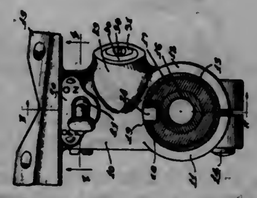
1. In combination with a carburetor a priming passage discharging into the carburetor passages and having a restricted fuel supply leading thereto, an air bleed passage surrounding said priming passage for a portion of its length and discharging into said priming passage, and an electric heating element in said air bleed passage whereby to heat the air supplied through said air bleed passage as well as said priming passage.

1,917,592. LIST OR FILLET FOR CREVICES. ADOLF INGVALD LUND, Oslo, Norway. Filed Oct. 29, 1931, Serial No. 571,774, and in Norway Nov. 1, 1930. 1 Claim. (Cl. 72—16.)



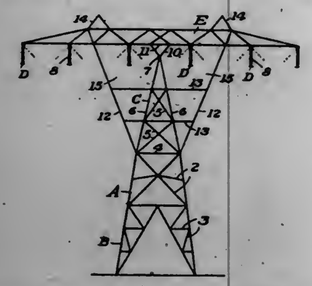
As an article of manufacture, a fillet for joints of adjoining wall-plates, made of resilient fibrous material and comprising an enlarged head portion, and a leg portion disposed substantially at right angles to said head portion and having weakening lines permitting flanges to be formed extending in opposite directions at substantially right angles from said leg portion.

1,917,593. LOCK STRUCTURE. ALEXANDER C. MABEE, Villa Park, Ill., assignor to Oakes Products Corporation, North Chicago, Ill., a Corporation of Michigan. Filed Mar. 11, 1932. Serial No. 598,202. 11 Claims. (Cl. 70—127.)



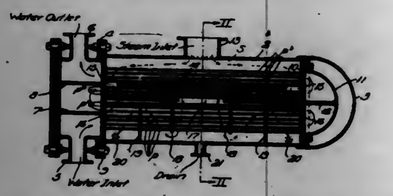
9. In combination in a lock structure, a housing, a non-rotatable lock bolt element shiftable axially in said housing to locking or unlocking position, an actuating element supported entirely on said bolt element and movable thereon, and a switch controlled by the movement of said actuating element.

1,917,594. TRANSMISSION TOWER. IRA W. MARSHALL, Pittsburgh, Pa., assignor to Blaw-Knox Company, Blawnox, Pa., a Corporation of New Jersey. Filed Sept. 26, 1931. Serial No. 565,294. 10 Claims. (Cl. 189—22.)



1. A transmission tower for electric conductors, comprising a body, a wedge-shaped head supported on the body and lying in the middle plane of the tower parallel to the conductors, a cross-arm supported by the head, and an upwardly diverging strut on each side of the head connecting the body and cross-arm and providing a free space for suspending a conductor below the cross-arm between each strut and the head of the tower.

1,917,595. HEATER. JOHN R. MCDERMET, Jeannette, Pa., assignor to Elliott Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed July 16, 1929. Serial No. 378,599. 10 Claims. (Cl. 257—240.)



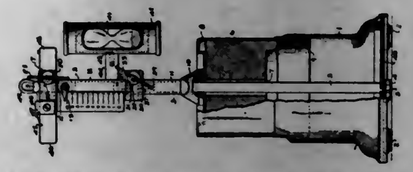
1. In a heat exchanger, a shell, tubes therein, baffling means dividing the interior of the shell into two substantially equal divisions, longitudinally extending baffling means cooperating with one division, and transversely extending baffling means cooperating with the other division.

1,917,596. TIRE STAND. JAMES T. MULLEN, Cleveland, Ohio, assignor to The Dyment Company, Cleveland, Ohio, a Corporation. Filed May 15, 1931. Serial No. 537,679. 4 Claims. (Cl. 211—24.)



1. As a new article of manufacture, a collapsible display support forming a tire stand, the same including sides and ends, the ends extending transversely of and connecting the sides, hinge folds intermediate the ends and the sides connecting said parts together, and a middle hinge fold located vertically of each end so that the ends which are normally transverse to the sides when the stand is in use may be adjusted with the portions at opposite sides of the intermediate folds flat relatively to each other when the stand is collapsed, the said ends having recesses forming seats for engagement with the peripheral portion of a tire, the said foldable end portions being inclined inwardly and downwardly from their upper edges.

1,917,597. APPARATUS FOR TESTING HAIR. CHARLES NESSLER, Palisades, N. Y., assignor to The Nestle-Le Mur Company, New York, N. Y., a Corporation of Ohio. Filed May 13, 1929. Serial No. 362,673. 7 Claims. (Cl. 73—51.)

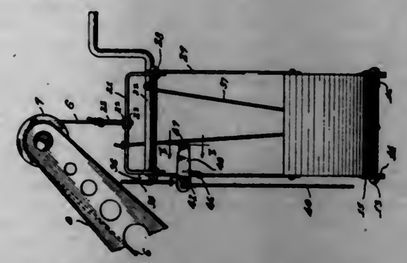


6. In apparatus for stretching a strand of hair, a post provided with a latch-receiving part, a weight provided with a vertical opening and having an upwardly extending tube attached thereto in axial alinement with said opening, said weight being mounted to move on said post which passes through said opening and tube, an upper clamp fixed on said post, a bracket fixed on said tube, a latch mounted on said bracket and locking with said part on the post, a lower clamp mounted on said bracket, a graduated scale fixed in relation to said upper clamp, and an index-member fixed in relation to said lower clamp and moving in response to the movements thereof and cooperating with said scale.

1,917,598. CASCARA SAGRADA. AUGUST JOHN PACINI, Chicago, Ill. Filed Feb. 15, 1932. Serial No. 593,204. 4 Claims. (Cl. 167—56.)

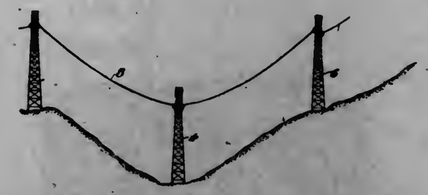
1. The process of producing bitterless cascara sagrada extract which consists in subjecting cascara sagrada to the action of an aldehyde until the bitter constituents are substantially bitterless and subsequently eliminating all uncombined aldehyde.

1,917,599. TOY. ALBERT G. REDMOND, Flint, Mich. Filed June 16, 1932. Serial No. 617,494. 10 Claims. (Cl. 16—37.)



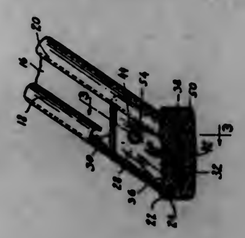
1. In a toy of the class described, two cooperating buckets, means hingedly connecting said buckets to permit the bottoms of the buckets to be moved toward each other into load carrying position and away from each other into dumping position, a single supporting member disposed for sustaining the entire weight of said buckets, said supporting member comprising a rigid horizontal portion and rigid depending ends thereon, arms on said supporting member pivotally secured to the outer edges of the buckets adjacent the bottoms, and ratchet controlled means for adjusting the height of the pivotally connected portions of the buckets relative to the portions pivotally secured to said arms.

1,917,600. TRANSMISSION LINE. FRED D. RHODES, New York, N. Y. Filed Feb. 26, 1931. Serial No. 518,890. 9 Claims. (Cl. 173—251.)



1. A suspension means for supporting an electrical transmission cable on a structure having spaced arms, comprising a pair of insulator strings attached to one arm of said structure and clamped to said cable in spaced relation to each other, a stabilizer for said cable comprising a pair of links one end of each being attached respectively to said cable at the places of attachment of said strings, and an insulator string connecting the other ends of said links with a second arm on said structure, said stabilizer being adapted to limit the swing of said cable in a relatively limited field with respect to said structure.

1,917,601. CUSHION FOOT. GEORGE D. SCHERMERHORN, Reading, Mich. Filed Mar. 2, 1932. Serial No. 596,263. 9 Claims. (Cl. 45—137.)



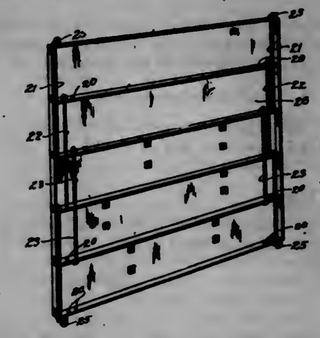
1. A cushion foot assembly including, in combination, a metallic web provided with a laterally extending flange at one extremity thereof, and an aperture extending through the juncture of the web and flange whereby said aperture provides a vertical and a lateral passage and cushioning material molded about said end above and below said flange.

1,917,602. HYDRAULIC LIFT FOR TRUCKS. WILLIAM SCHROEDER, Chicago, Ill., assignor to Mercury Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 1, 1931. Serial No. 541,311. 4 Claims. (Cl. 187—9.)



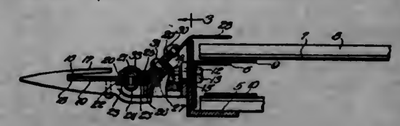
1. An industrial truck of the elevating platform type, including in combination, raising means for the platform of said truck, said raising means including cables having similar ends thereof attached to the sides of the platform on opposite sides of the center line of the platform, sheaves supported for bodily movement and also relative rotative movement, said sheaves being disposed with the axes thereof coincident and extending lengthwise of the truck, said cables being trained over said sheaves in opposite directions and having similar ends of the cables fastened to opposite sides of the platform, the other ends of said cables being fixed against movement, a single vertically movable member carrying said sheaves, means for moving said member in the manner stated, the bodily movement of said sheaves causing raising movement of said platform, the attachment of the cables at the sides of the platform being effective to prevent tilting of the platform in service.

1,917,603. DISPLAY PANEL. PAUL I. SCHULTZ, Cleveland, Ohio, assignor to The United States Air Compressor Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 23, 1931. Serial No. 539,519. 3 Claims. (Cl. 206—78.)



1. In combination, a plurality of readily interchangeable panel units, and means for interconnecting said panel units, said interconnecting means comprising a plurality of members, each of which extends across at least two of said panel units, and said panel units having flanges extending in the same direction, said interconnecting means cooperating with the flanges to provide a self-sustaining unit.

1,917,604. SICKLE GUARD AND SHIELD. CHARLES J. SCRANTON, Jr., Peoria, Ill., assignor to Avery Power Machinery Co., Peoria, Ill., a Corporation of Illinois. Filed Apr. 30, 1931. Serial No. 533,876. 10 Claims. (Cl. 56—208.)

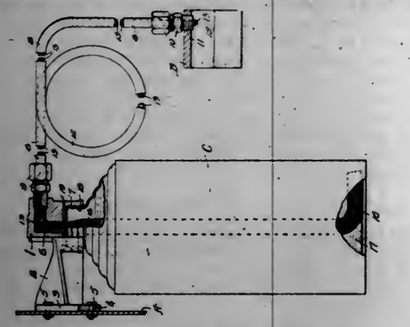


1. In combination in harvesting means, a frame, a conveyor supported by said frame, a sickle guard secured to said frame, a shoulder having a groove therein formed on said sickle guard, and means engaging in said groove and providing a continuous delivery surface from said guard to said conveyor.

1,917,605. LUBRICATING DEVICE. PORTIS P. SHAW, St. Louis, Mo. Filed July 27, 1932. Serial No. 624,999. 11 Claims. (Cl. 123—196.)

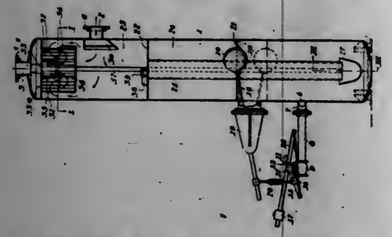
1. A lubricating device for internal combustion engines having an intake manifold, a bracket having a head provided with a passage and a screw threaded recess, a lubricant container detachably connected with

the screw threaded recess of the bracket head and depending therefrom, a flexible tubular conduit connecting the outlet end of the bracket head passage with the in-



take manifold, a wick passing through said conduit, said head passage and entering the lubricant container to be submerged in the lubricant of the container.

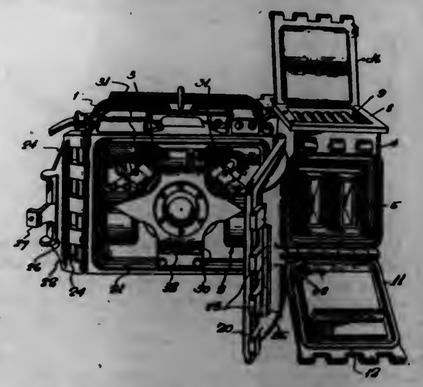
1,917,606. SEPARATOR. DONALD A. SILLERS, Dallas, Tex. Filed Apr. 11, 1930. Serial No. 443,410. 5 Claims. (Cl. 183—2.7.)



1. A separator comprising a vertical cylindrical tank, partitions dividing said tank into a central separating chamber, an upper mist-extracting chamber and a lower sediment-collecting chamber, said separating chamber having an inlet opening with means associated therewith for causing the liquid and gas to be separated to be moved at a high speed around the circular wall of the separating chamber, whereby the liquid is separated from the gas by centrifugal force, the liquid passing downwardly into the sediment-collecting chamber and the gas passing upwardly into the mist-extracting chamber, said sediment-collecting chamber consisting of a liquid reservoir, means for maintaining the level of the liquid in the reservoir at a predetermined level, and means for conducting the liquid from the separating chamber to the sediment-collecting chamber comprising a conduit extending below the surface of the liquid in the reservoir and said mist-extracting chamber consisting of a plurality of spaced vertical spiral vanes having transverse liquid-collecting pockets on the sides thereof, and means for causing the gas to take a downwardly-extending path in the spaces between the spiral vanes, and means for discharging liquid from the mist-extracting chamber into the liquid reservoir below the surface of the liquid.

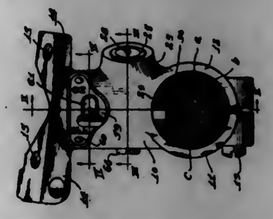
1,917,607. EXPLOSIONPROOF MOTOR. WILLIAM W. SLOANE, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 7, 1929. Serial No. 384,188. 16 Claims. (Cl. 172—86.)

1. In an explosion proof motor, an armature having a shaft, an enclosure for said armature, means for opening or closing said enclosure comprising a hinged cover adjacent the commutator end of said armature and disposed in a plane perpendicular to said armature shaft when closed, said cover and said enclosure being provided with flame proof engaging surfaces, and a spider de-



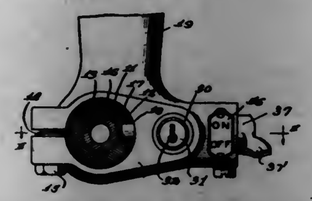
tachably carried within said enclosure and adjacent said cover for supporting said armature independently of the latter.

1,917,608. AUTOMOBILE LOCK. FREDERICK A. SMITH, North Chicago, Ill, assignor to Oakes Products Corporation, North Chicago, Ill., a Corporation of Michigan. Filed Dec. 21, 1931. Serial No. 582,814. 15 Claims. (Cl. 70—127.)



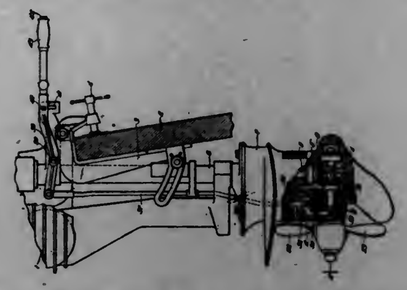
14. A lock in which is combined a locking bolt, an electrical switch, means for shifting said bolt into locking or unlocking position, a lever having a hub through which said bolt is slidable during shifting movement thereof, means holding said lever against movement with said bolt during shifting thereof, and a connection whereby swing of said lever will cause operation of said switch, said connection including said bolt.

1,917,609. LOCK STRUCTURE. FREDERICK A. SMITH, North Chicago, Ill., assignor to Oakes Products Corporation, North Chicago, Ill., a Corporation of Michigan. Filed Mar. 14, 1932. Serial No. 598,555. 17 Claims. (Cl. 70—127.)



12. In combination, an axially shiftable lock bolt element, an actuating element rotatable independently of said bolt element but shiftable therewith, and a switch operable by said actuating element.

1,917,610. PROPELLER. THEODORE L. SMITH, Detroit, Mich., assignor to Caille Motor Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 20, 1931. Serial No. 531,405. 3 Claims. (Cl. 170—163.)



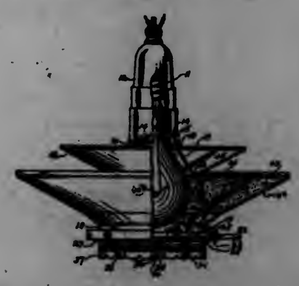
1. An adjustable propeller of the class described comprising a blade, and a pivot for said blade, said pivot being spaced laterally from one side of said blade in a plane generally normal to the side of the blade and intersecting the blade substantially centrally between the leading and trailing edges of said blade whereby the pressure upon the blade in operation acts upon a greater area of the blade in a direction tending to open the blade than in a direction tending to close the blade and at the same time the leverage in the blade against adjustment is substantially one-half the width of the blade.

1,917,611. PROJECTOR APPARATUS. GEORGE B. STARR, San Francisco, Calif. Filed Jan. 7, 1931. Serial No. 507,139. 18 Claims. (Cl. 272—18.)



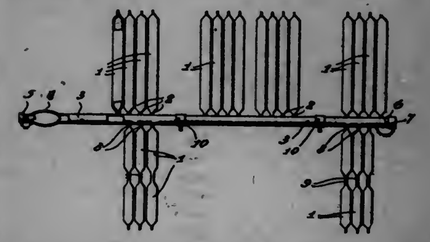
1. In a device of the character described, a screen, a battery of moving picture projectors projecting in divergent directions toward the plane of the screen, the pictures projected from the adjacent projectors complementing each other, an adjustable support for the projectors, and means to move the support to various positions to bring selected projectors into operative relation to direct the projecion from the same onto the screen.

1,917,612. LIGHTING FIXTURE. WHITMAN SYMMES, San Francisco, Calif. Filed Jan. 22, 1931. Serial No. 510,465. 3 Claims. (Cl. 240—78.)



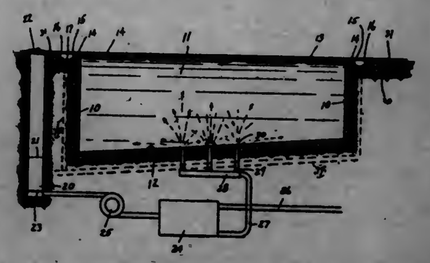
1. In a lighting fixture, the combination with a lamp having a bulb portion, of a main-reflecting shade surrounding the bulb portion of the lamp, said shade being open at its top and bottom, a reflecting pan member mounted in vertical spaced underlying relation to the bottom opening and of greater diameter than said bottom opening, an axially radial opening in said pan member, a light diffusing member disposed in said radial opening, the peripheral portion of said pan member being formed upwardly and spaced radially outwardly from the periphery of the shade at said bottom opening and said upformed portion intersecting the projected horizontal plane of the bottom of said shade, a band of concave vertical cross section disposed within said upformed portion, and means for releasably connecting said pan with said shade.

1,917,613. SWIMMING DEVICE. ALFONS J. SZUMKOWSKI, Chicago, Ill. Filed May 9, 1932. Serial No. 610,108. 5 Claims. (Cl. 9—17.)



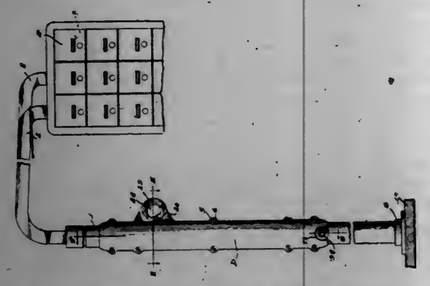
1. In an apparatus of the character described, a plurality of longitudinally disposed air containers arranged in groups and adapted to lie when worn on the body of a person on the back and chest of the wearer, a belt adapted for disposition around the waist of the wearer, said belt forming a main air passage and being in communication with each of said groups of air containers, means provided within said main air passage for establishing or cutting out communcation between said main air passage and any one of said groups of air containers one end of said belt terminating in a mechanical air bulb by means of which the said air containers may be inflated and the other end of said belt being open and being adapted for closure by a suitable cap whereby said latter end may be used as a mouthpiece for partially inflating said air containers.

1,917,614. APPARATUS FOR WARMING AND CLEANING ARTIFICIAL POOLS. SKILES H. TEST, Indianapolis, Ind. Filed Dec. 5, 1931. Serial No. 579,265. 4 Claims. (Cl. 4—172.)



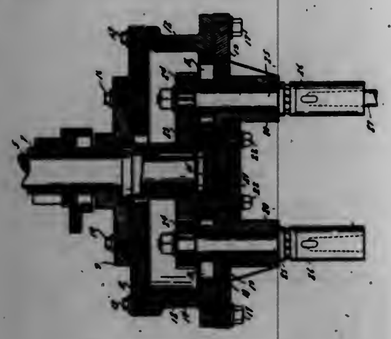
2. In an artificial swimming pool, the combination of a pool body, a vertically exposed channel peripherally enveloping the same at the upper edge of the body, a partition between the pool body adjacent the side wall and the channel, and having oppositely inclined walls forming a level line division between the pool side and the channel, each wall being of appreciable width, one wall of the partition forming a wall of the channel, and a walk around the pool and inclined toward the pool and peripherally discharging into the channel.

1,917,615. FARE COLLECTION APPARATUS. ERNEST H. THOMPSON, Winnetka, Ill., assignor to Johnson Fare Box Company, Chicago, Ill., a Corporation of New York. Filed Nov. 18, 1931. Serial No. 575,709. 15 Claims. (Cl. 232—9.)



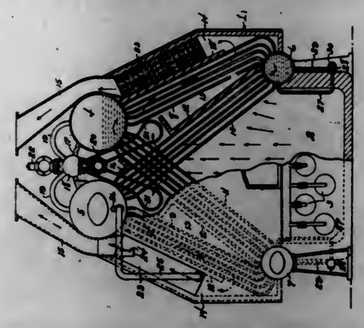
1. A unitary depository structure for fare collection system comprising a tubular housing having a coin insert slot, coin receiving means within said housing registering with said insert slot to receive and support a deposited coin, pneumatically operated impact mechanism within said housing below said receiving mechanism comprising an impact member for striking deposited coins to project them from said receiving mechanism, a valve for controlling the air flow to said impact mechanism, said valve being within said housing below said impact mechanism, and electromagnetically operated means within said housing below said valve for controlling the operation of said valve.

1,917,616. MACHINE TOOL. HERBERT L. TIGGES, Toledo, Ohio, assignor to Baker Brothers, Inc., Toledo, Ohio, a Corporation of Ohio. Filed Apr. 30, 1931. Serial No. 533,979. 2 Claims. (Cl. 77—23.)



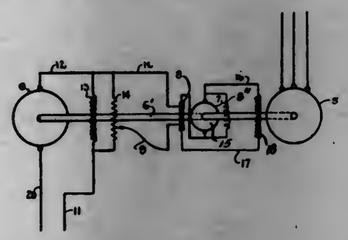
1. In a multiple spindle head, a spindle sleeve, a main spindle rotatable in the sleeve, a gear housing comprising a first plate secured to an end portion of the sleeve, a second plate provided with a flange bolted to the first plate, the second plate being provided with a series of openings extending outwardly from the axis of the spindle, auxiliary spindle brackets extending through said openings and provided with slots permitting radial adjustment with respect to the main spindle, bolts in said second plate and extending through said slots to assemble the brackets with the housing, an auxiliary drill spindle journalled in each bracket, a gear removably secured on a portion of the main spindle within said housing, and a gear in the housing on an end of each auxiliary spindle and directly in mesh with said first gear, whereby said auxiliary spindles may be laterally adjusted and driven by securing gears of different diameter on said main spindle.

1,917,617. STEAM BOILER. HENRY A. ULRICH, Los Angeles, Calif. Filed July 29, 1932. Serial No. 625,989. 1 Claim. (Cl. 122—326.)



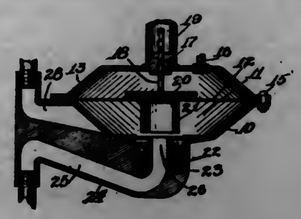
A steam boiler comprising a casing, a fire box in said casing, means for heating the fire box, a pair of parallel steam drums arranged in the casing directly above the fire box, lower drums arranged in the casing adjacent the fire box, downwardly and outwardly extending banks of tubes connecting the steam drums to the lower drums, diagonally extending and inter-crossing banks of tubes connecting the lower drums to the steam drums and arranged directly in the path of combustion from the fire box, deflectors arranged between the first and second banks of tubes, deflectors arranged between the first mentioned deflectors and the walls of the casing for forming downwardly and upwardly extending passages with the first mentioned banks of tubes arranged in the downwardly extending passages, means connecting the upwardly extending passages to a smoke stack, feed water heating means in the upwardly extending passages and connected to the steam drums, a steam collecting drum arranged in the casing between the steam drums, a series of tubes connected to the steam drums throughout the lengths thereof and to the steam collecting drum, a superheated steam outlet header arranged below the steam collecting drum, and superheated tubes connecting the steam collecting drum with the super-heated steam outlet header and extending downwardly through the second mentioned banks of tubes.

1,917,618. AUTOMATIC POWER FACTOR CONTROL FOR SYNCHRONOUS MOTOR GENERATORS. JOHN F. USENER, Sr., and JOHN F. USENER, Jr., Houston, Tex. Filed Aug. 17, 1928. Serial No. 300,190. 5 Claims. (Cl. 172—246.)



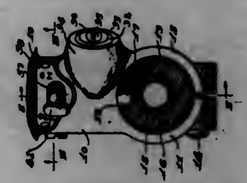
5. A power factor control hookup for synchronous motor generator sets including a compound wound exciter for the motor, a compound wound direct current generator having a series field winding, and a circuit connecting the series field of said generator and the field winding of said exciter whereby the voltage to the exciter will be increased proportionately to the increase in load on the generator and the power factor thereby automatically controlled.

1,917,619. AUTOMATIC GAS SHUT-OFF VALVE. FRED C. UTTERBACK, Arlington Heights, and GEORGE WALTER WARRICK, Harvey, Ill. Filed Mar. 8, 1930. Serial No. 434,204. 1 Claim. (Cl. 137—153.)



A gas shut-off valve, comprising a bowl-shaped member having a laterally extending integrally formed fin or extension on the lower side thereof, said fin having a T-shaped terminal portion for connection in a gas riser to provide support for said valve in a horizontal position, said fin having an annular well in the bottom wall of the bowl to receive a sealing fluid cooperable to seal the gas inlet to the bowl, said fin being passaged to provide a gas inlet through the bottom of said bowl and also being passaged to provide a gas outlet conduit above said gas inlet passage opening into said bowl through the side thereof and above the bottom thereof, a diaphragm on said bowl forming a closure therefor, an inverted cup-shaped member secured on the lower side of said diaphragm and in alinement with the recess to cooperate with a sealing fluid in the recess to close the gas inlet to the bowl, a cover on said bowl, and a stem on said diaphragm slidably guided in said cover.

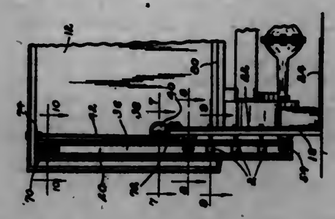
1,917,620. LOCK STRUCTURE. ERNEST J. VAN SICKEL, Waukegan, Ill., assignor to Oakes Products Corporation, North Chicago, Ill., a Corporation of Michigan. Filed Mar. 14, 1932. Serial No. 598,547. 9 Claims. (Cl. 70—127.)



4. A lock structure comprising a housing, a lock bolt element adapted for movement in said housing in axial direction to locking and unlocking position, a switch on said housing, an actuating element in said housing adapted when rotated to operate said switch, and a key interlocking said housing with both said elements to prevent rotation thereof when said lock bolt structure is in locking position and to release said actuating element from said housing for rotational movement to operate said switch when said lock bolt structure is in unlocking position.

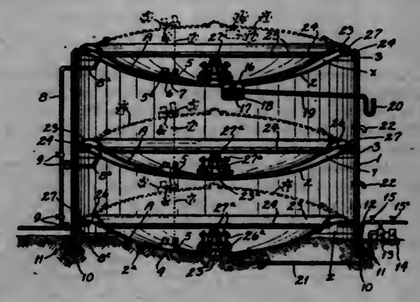
1,917,621. TRUCK MOUNTED ELEVATOR. WILLIAM W. WEBER, Seattle, Wash. Filed Oct. 22, 1930. Serial No. 490,341. 1 Claim. (Cl. 214—75.)

In a truck elevator, the combination with a pair of spaced, upright, I-beams fixed to the truck, of an elevator platform having side frames adjacent the I-beams, a set of rollers journaled on the side frames and engaging the opposite sides of the web of the I-beams, sets of rollers journaled on the side frames having frictional engagement with the inner faces of the inner flanges of the beams, sets of



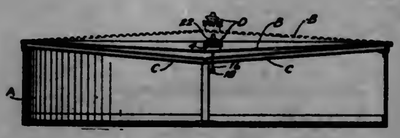
rollers journaled on the side frames at opposite sides of the I-beam and engaging the outer faces of the inner flanges of said beams, and means for operating the elevator.

1,917,622. GAS OR LIQUID STORAGE DEVICE. JOHN H. WIGGINS, Tulsa, Okla. Filed Feb. 27, 1928, Serial No. 257,234. Renewed Apr. 16, 1931. 14 Claims. (Cl. 220—85.)



1. A device of the kind referred to comprising an upright, cylindrical shell, and a plurality of devices sustained by and arranged inside of said shell in superimposed relation and each provided with a concaved stationary wall and a movable metallic wall that is capable of assuming either substantially the same shape as said stationary wall or a reverse shape.

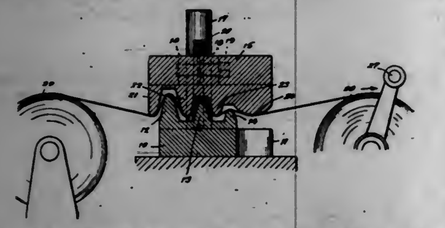
1,917,623. STORAGE TANKS FOR VOLATILE GASES AND LIQUIDS. JOHN H. WIGGINS, Tulsa, Okla. Filed Feb. 8, 1930. Serial No. 425,667. 4 Claims. (Cl. 220—26.)



1. In a storage tank of the type which is provided with a metal roof that is adapted to flex upwardly and downwardly to vary the volume of vapor space of the tank, the combination of a stationary structure in the tank adapted to serve as a support for the roof under certain conditions, a valve seat mounted on the top side of the roof, a valve element on the underside of said valve seat arranged at a point above the top side of the roof, a spring arranged above the valve element outside of the vapor space of the tank, for normally holding said

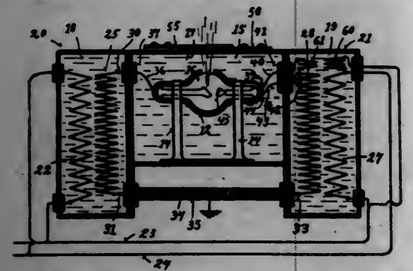
valve element seated, and a means suspended from said valve element for unseating the same, said means comprising a pull rod carried by the valve element and depending from the same, and a stop member on said pull rod that is adapted to strike against a part of said stationary structure when the roof flexes upwardly a certain distance, whereby the bodily upward movement of the valve element will be arrested, with the result that the continued upward movement of the roof causes the valve seat to move out of engagement with the valve element, thereby automatically venting the vapor space of the tank.

1,917,624. MACHINE FOR WORKING WIRE CLOTH. NELSON W. WEBB, Belleville, N. J., assignor to Eastwood Wire Corporation, Belleville, N. J., a Corporation of New Jersey. Filed Aug. 29, 1930. Serial No. 478,621. 2 Claims. (Cl. 153—32.)



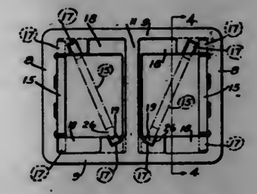
1. In a machine for working wire cloth having warp and weft strands, a pair of superimposed members having a passage between them adapted to have the wire cloth passed therethrough, means adapted to adjust one of said members perpendicularly toward and away from said other member, a plurality of equally spaced projections carried by one of said members arranged parallel to said weft strands extending in one direction in said passage having rounded surfaces of uniform radius and diverging side walls, said projections adapted to bend the wire cloth in one direction and iron it at one side, a plurality of equally spaced projections carried by the other of said members also parallel to said weft strands extending in the other direction in said passage into the spaces below said first projections and having rounded surfaces of uniform radius and diverging side walls disposed in parallel relation with the adjacent side walls of said first mentioned projections adapted to bend the wire cloth in the other direction and iron it at the other side, the projections at at least one side of said passage being of gradually decreasing height, whereby the successive bending of the wire cloth is of decreasing angularity.

1,917,625. RADIOGRAPHIC APPARATUS. WILBUR S. WERNER, Covington, Ky., assignor to The Kelley-Koett Manufacturing Company, Covington, Ky., a Corporation of Ohio. Filed Mar. 16, 1929. Serial No. 347,682. 4 Claims. (Cl. 250—34.)



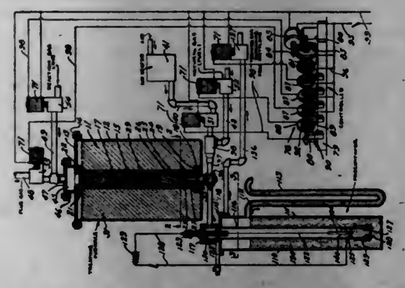
1. Radiographic apparatus comprising a pair of end compartments serving as supporting standards, transformers immersed in oil and mounted in said compartments, a central compartment abutting said first-mentioned compartments at opposite ends and supported thereby, said central compartment being shallower than the end compartments, an X-ray generator in the central compartment, a protective shield surrounding the generator in said compartment, means in said central compartment to support said generator and said shield, the central compartment being oil filled, means in one of said end compartments and the abutting wall of the central compartment for effecting electrical connection between one end of the transformer secondary and one end of the X-ray generator, means in the adjacent walls of the other end compartment and central compartment for effecting insulated electrical connection between one end of the transformer secondary and the other end of the X-ray generator, insulating means extending between the endmost compartments exteriorly of and beneath the central compartment, an electrical conductor connecting the remaining ends of both transformer secondaries and extending through said insulating means, and means comprising electrical conductors for directing energizing current for the primaries of both said transformers in said compartments.

1,917,626. FRICTION DRAFT RIGGING. GEORGE W. WILDIN, Pittsburgh, Pa., assignor, by mesne assignments, to Cardwell Westinghouse Company, Chicago, Ill., a Corporation of Delaware. Filed July 13, 1929. Serial No. 377,994. 1 Claim. (Cl. 213—33.)



A draft gear comprising a casing open at one end and having an integral vertical central longitudinal partition and instanding stop lugs adjacent to its open end, wedge means and friction plates at each side of the partition, spring means cooperating with the wedge means and plates, certain of the plates having lateral lugs engageable with the casing lugs, each of the casing lugs having a transverse slot therethrough for the passage of the plate lugs on assembly, such slots being oblique to the axis of the gear and located, respectively, adjacent to the side wall of the casing and to the partition.

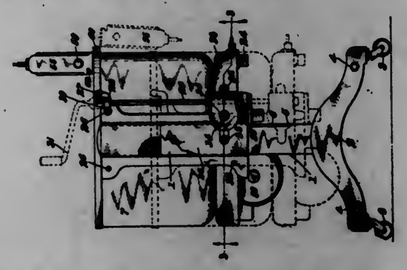
1,917,627. PROCESS OF PRODUCING ACETYLENE GAS. ROBERT G. WULFF, Los Angeles, Calif. Filed Jan. 11, 1927, Serial No. 160,341. Renewed Dec. 12, 1932. 5 Claims. (Cl. 260—170.)



1. A method of producing acetylene gas from natural gas comprising: heating refractory particles to in excess of 2600° F.; passing said natural gas into contact with said heated particles so as to form acetylene gas; and cooling the resulting gas as quickly as possible to a temperature at which acetylene is stable.

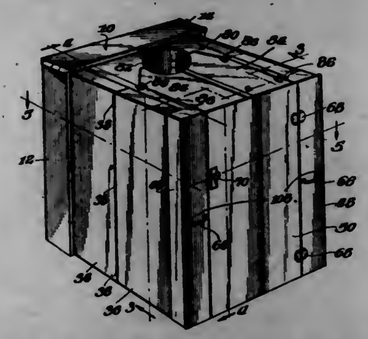
CARNEGIE LIBRARY OF ATLANTA

1,917,628. WASHING MACHINE. ALPHEUS W. ALTORFER, Peoria, Ill., assignor to Altorfer Bros. Company, East Peoria, Ill., a Corporation of Illinois. Filed Jan. 25, 1929. Serial No. 334,925. 8 Claims. (Cl. 68—15.)



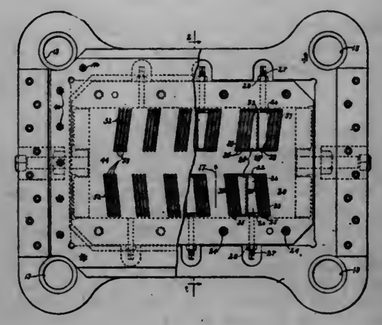
1. In a washing machine, in combination, tub supports comprising a pair of oppositely positioned vertical standards each embodying elements of tub raising and lowering means, a tub positioned between and supported on said standards and having vertical movement in relation thereto, means connected to opposite sides of the tub and embracing and providing guides for said standards substantially throughout the height of the tub, operating elements within said guides in operative connection with the elements on said standards, and means to actuate said operating elements.

1,917,629. COLLAPSIBLE BATH CABINET. CARL H. ANDERSON, Milton, Wis., assignor to The Burdick Corporation, Milton, Wis., a Corporation of Delaware. Filed Oct. 8, 1930. Serial No. 487,155. 3 Claims. (Cl. 174—87.)



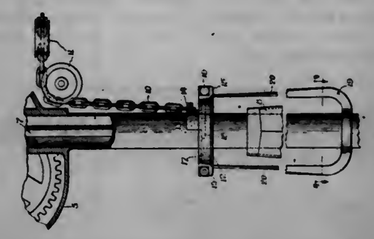
1. A folding light bath cabinet comprising a shallow rigid box-like back portion having a back, two sides and a top, a pair of extensible side walls pivotally connected to the back portion to the rear of the front edge thereof, each side wall being composed of a plurality of sections hinged together for inward folding within the front edge of the back portion and for extension beyond the back portion, a top wall pivotally connected to the back portion to the rear of the front edge thereof to be foldable down within the back portion, and a rigid front wall hinged at opposite edges to the sections of the side wall, said front wall forming the front of the extended cabinet and cooperating with the back portion to form a closure for the top and side walls when they are folded within the back portion.

1,917,630. APPARATUS FOR SLITTING METAL SHEETS. HERBERT K. BAKER, Detroit, Mich. Filed Aug. 28, 1931. Serial No. 559,945. 27 Claims. (Cl. 164—6.5.)



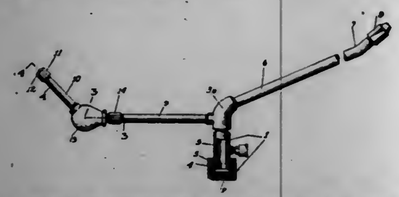
21. Apparatus for slitting metallic blanks for expansion into meshwork having strands of predetermined width, including reciprocating slitting mechanism adapted to the intermittent or step by step feed of blanks therethrough, slitting elements having cutting edges spaced apart in parallel alignment a distance greater than the predetermined width of a strand, said cutting edges being inclined with respect to the direction of feed through the apparatus, there being slitting elements arranged generally longitudinally in groups of length considerably greater than the length of a feed step, whereby slits formed in a blank by a portion of a group of slitting elements in one operation lie between and in parallel alignment with respect to the cutting edges of other slitting elements in said group, so that, by continued actuations of said slitting mechanism, strands of said predetermined width are produced.

1,917,631. WINDMILL CONSTRUCTION. JOHN S. BAKER, Evansville, Wis. Filed Jan. 19, 1931. Serial No. 509,807. 5 Claims. (Cl. 170—46.)



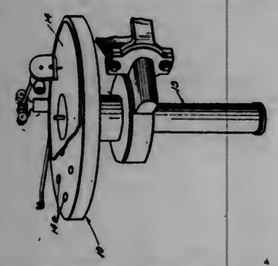
1. In combination with a windmill tower and a vertically extending pipe swiveled in and projecting above the upper end of said tower, a swivel including a ring encircling said pipe above the upper end of said tower, and a U-shaped bail composed of flat metal stock with its closed end disposed within said tower and lying flat against said pipe so that the major portion of the bail is disposed in a plane including the axis of said pipe, the legs of said bail projecting upwardly through the tower and attached to opposite sides of said ring, said ends being twisted through a right angle relative to said closed end.

1,917,632. SPRINKLER. WILLIAM A. BUCKNER, Fresno, Calif. Filed May 20, 1927. Serial No. 192,906. 2 Claims. (Cl. 299—69.)



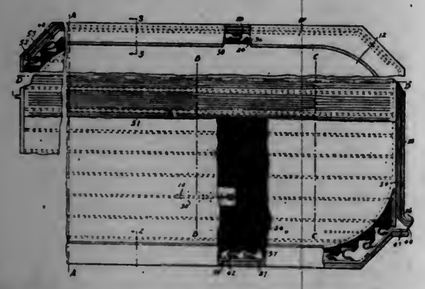
1. A sprinkler comprising a rotatable head, a discharge pipe connected with the head at an angle to the vertical axis thereof, a reaction means insufficient in itself to impart rotation to the head against the binding of the head on its seat, and means to effect a vibration of the head to render the reaction means effective in rotating the head, such latter means including a member in the pipe interposed against the flow of the water and having a bore in substantial alinement with such flow whereby water moving through the pipe will impinge against the accumulated water within said bore.

1,917,633. NONVIBRATORY SUPPORT OF RECORD TABLE. ROBERT C. BURT, Pasadena, Calif. Filed May 19, 1930. Serial No. 453,574. 6 Claims. (Cl. 274—9.)



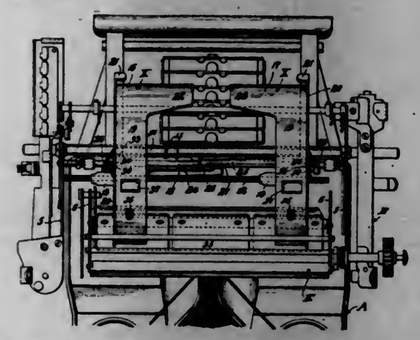
1. In sound reproducing apparatus, the combination of a record table, a driving shaft therefor, and a vibration absorbing mounting for the table on the drive shaft; said mounting comprising a plurality of resilient elements applied to the under side of the record table at points offset from the table axis, said elements yielding both transversely of and in the plane of rotation of the record table, and resilient means supporting said resilient elements from the driving shaft.

1,917,634. ICE RINK STRUCTURE. MARTIN R. CARPENTER, Chicago, Ill. Filed Sept. 8, 1930. Serial No. 480,323. 23 Claims. (Cl. 62—12.)



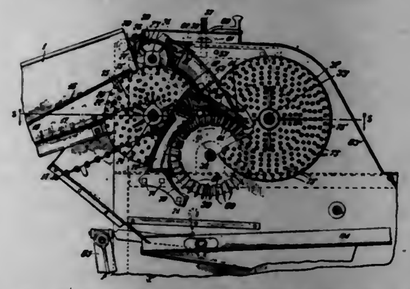
1. In an ice skating rink floor structure the combination of a plurality of laterally spaced stringers, a plurality of closely adjoining pipes supported by the stringers, a one piece monolithic composition slab extending throughout the entire area of the skating floor and having the pipes and stringers embedded therein, and supporting means on which the slab is horisontally movable.

1,917,635. MANIFOLDING DEVICE. GUSTAVE O. DROENER, San Francisco, Calif., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Original application filed July 30, 1930, Serial No. 471,802. Divided and this application filed Apr. 22, 1932. Serial No. 606,966. 9 Claims. (Cl. 197—143.)



1. In an manifolding device, the combination with a typewriter carriage having a platen and a paper apron extending forwardly under the platen; of a rod supported on the carriage in rear of the apron and disposed in parallelism with the platen; and a paper supporting and guiding table pivoted on said rod and having its front end interlocked with the rear end of the apron.

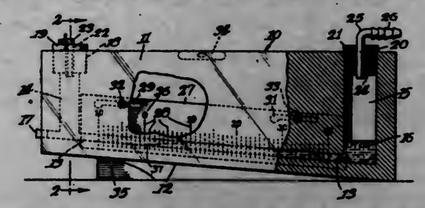
1,917,636. CORN SHELLER. ARTHUR B. DIETERICH, East Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed July 7, 1930. Serial No. 465,942. 7 Claims. (Cl. 130—7.)



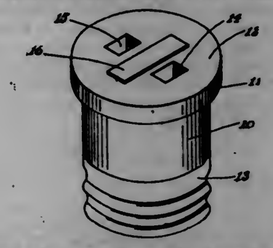
1. In a corn sheller, the combination of a frame, journal sleeves supported in the frame, a rotating beater journaled in said sleeves, a rag iron supported closely encircling said beater and also journaled on said sleeves, and means frictionally held in position on said frame for adjusting the position of said support.

1,917,637. GAUGE. FRANK W. DWYER, Oak Park, Ill. Filed Feb. 24, 1931. Serial No. 517,650. 7 Claims. (Cl. 73—31.)

3. A fluid pressure gauge comprising a block of transparent material having a bore of uniform diameter drilled therein, one end of said bore being in communication with a reservoir drilled in said block for containing an indicating liquid, said reservoir extending upwardly at an angle to said bore and opening to the atmosphere, the opposite end of said bore being in communication with a second bore drilled in said block, said last named bore extending upwardly from said first named bore and opening to the atmosphere, and a graduated scale located on the back of said block and visible through the same for indicating the position of said liquid in one of said bores.

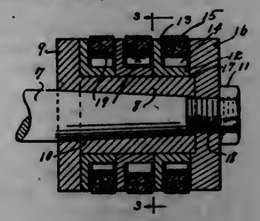


1,917,638. ELECTRIC PLUG APERTURE INDICATOR. EDNA W. DIECKMANN, Orange, N. J. Filed Mar. 12, 1931. Serial No. 521,899. 1 Claim. (Cl. 173—343.)



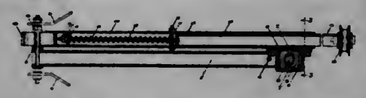
In a socket having a face and terminal apertures therein, a rectangular strip of self-luminous material affixed on and extending diametrically on said face between said apertures, the long sides of said strip lying adjacent and parallel to the long sides of said apertures.

1,917,639. PUMP PISTON. DORA B. EVANS, Long Beach, Calif. Filed Dec. 24, 1932. Serial No. 648,780. 1 Claim. (Cl. 309—29.)



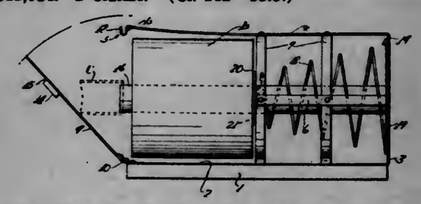
In a device of the character described the combination of a piston composed of a sleeve having an integral flange surrounding one end thereof and a detachable flange surrounding the other end thereof, said last flange being provided in its inner face with a concentric recess adapted to fit snugly the end of said sleeve, said sleeve being substantially smaller in diameter than said flanges, a plurality of concentric ring carriers detachably mounted on said sleeve between said flanges in fixed longitudinal adjustment each comprising an annulus having an annular concentric flange surrounding one end thereof and adapted, when positioned for use, to form a plurality of spaced ring grooves, an expandible non-metallic packing ring in each of said grooves, the inner diameter of said rings being substantially greater than the bottom diameter of the ring grooves, and a ring expander in each of said grooves behind said rings adapted to exert pressure to expand said rings, said expanders comprising a strip of relatively thin flexible undulating material of a width substantially equal to the width of the ring grooves and having its ends connected together to permit relative lengthwise but non-transverse movement.

1,917,640. CABLE OR STRAND GUIDING MECHANISM. ELBERT E. FAIRBANKS, Long Beach, Calif. Filed Sept. 26, 1929. Serial No. 395,432. 6 Claims. (Cl. 242—157.)



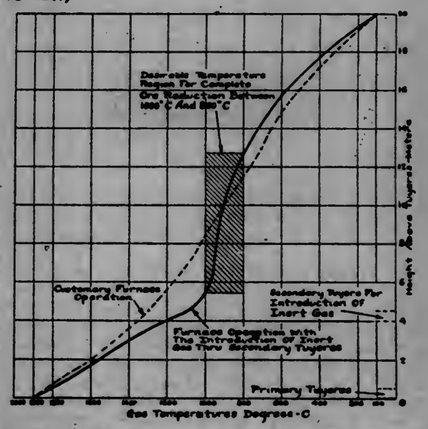
1. A mechanism of the character described comprising a rotatably mounted screw shaft, a nut on said shaft, an arm provided with an extensible member and connected with the nut, a spring yieldingly holding the extensible member retracted, and cable guide members connected with the extensible member.

1,917,641. TOILET PAPER RACK. HEBERT D. FAIRCHILD, Yelm, Wash. Filed May 13, 1932. Serial No. 611,034. 2 Claims. (Cl. 142—55.3.)



1. In a device of the kind described, a base, a frame on the base, a shaft extended through the frame, an expansion coil spring around the shaft within the frame, and a gate hinged to the base a substantial distance from the frame, the said gate having an opening substantially larger than the shaft and adapted to receive the end portion thereof.

1,917,642. PROCESS OF CONTROLLING THE TEMPERATURE GRADIENT UP THE SHAFT OF A FURNACE. CLIFFORD C. FURNAS, Minneapolis, Minn. Filed June 28, 1930. Serial No. 463,094. 8 Claims. (Cl. 75—17.)



1. The step in the process of smelting iron ore in blast furnaces which consists in effecting a lowering of tem-

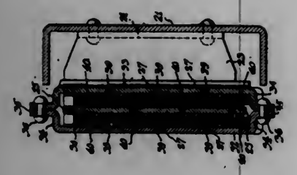
perature of the hot fluid stream at a point above the hearth region and melting zone, and maintaining within the furnace shaft an increased length of region where the counter-moving solid stream is held at temperatures between 1000° C. and 800° C.

1,917,643. CLEANER FOR FLUIDS. OTTO B. GOLDKAMP, San Diego, Calif., assignor of one-half to San Diego Consolidated Gas and Electric Company, San Diego, Calif., a Corporation of California. Filed Oct. 20, 1930. Serial No. 489,752. 7 Claims. (Cl. 183—111.)



3. In a cleaner for fluids, a casing having an inlet and an outlet, a separator means affording a passage between said inlet and said outlet, and comprising a series of similarly dimensioned sections, the walls of which diverge towards said outlet and having a direct unobstructed central passage, and helical fins arranged in said separator mens around said central passage.

1,917,644. MOTOR SUPPORT AND FRAME CONNECTION. FREDERICK M. GUY, Detroit, Mich., assignor to Guy and Murton Incorporated, Detroit, Mich., a Corporation of Michigan. Filed Nov. 24, 1930, Serial No. 497,758. Renewed Dec. 6, 1932. 5 Claims. (Cl. 248—14.2.)



1. In a motor support, the combination of a bracket having an end wall, a supporting member connected to said bracket and having a wall spaced from said bracket wall, a plurality of like members in said space between said walls, certain of said members being connected to said bracket wall to move therewith and other of said members being connected to said supporting member wall to move therewith, said members being interchangeable, and resilient blocks in said space between said bracket wall and said wall of said supporting member and between adjacent members in said space, said blocks being arranged to prevent metal to metal contact between said bracket and supporting member and between said members in said space.

1,917,645. BACK SIGHT FOR SMALL ARMS. ALFRED THOMAS CORBYN HALE and ELIJAH KEELING, Birmingham, England, assignors of one-third to A. G. Parker & Company, Limited, Birmingham, England. Filed Sept. 8, 1932, Serial No. 632,100, and in Great Britain Apr. 19, 1932. 6 Claims. (Cl. 33—55.)

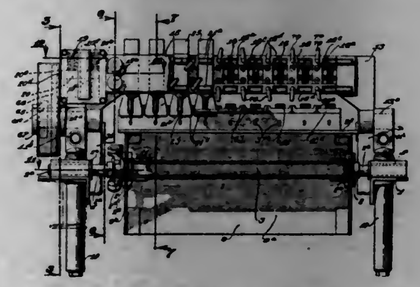


1. A back sight for small arms, comprising an attachment plate, a sight post on said plate, said post being exteriorly screw threaded, a sight carrier carried by said sight post, an adjusting nut associated with said sight carrier and engaging the screw thread on said sight post for adjusting the said carrier with respect to the said post, and means for preventing relative rotation between said carrier and said post, said means comprising a slide on said sight carrier slidably engaging a groove in said sight post, said slide extending parallel to the longitudinal axis of said screw and nut means.

1,917,646. METHOD OF MAKING VISCOSE. OTTO HERRMANN, Wiesbaden, Germany, assignor to Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany, a Corporation of Germany. Filed May 29, 1931, Serial No. 541,116, and in Germany May 31, 1930. 6 Claims. (Cl. 260—100.)

1. A method of preparing viscose solutions suitable for the manufacture of threads, films and other regenerated cellulose structures which comprises treating green alkali cellulose with carbon bisulphide, dissolving the cellulose xanthate in an alkali solution in the presence of oxygen and removing the oxygen when the viscose solution has acquired the desired viscosity.

1,917,647. BOOK SEWING MACHINE. KENNETH S. HOOD, San Diego, Calif., assignor to M. Russell Engler, San Diego, Calif. Filed Jan. 29, 1930. Serial No. 424,271. 24 Claims. (Cl. 112—21.)



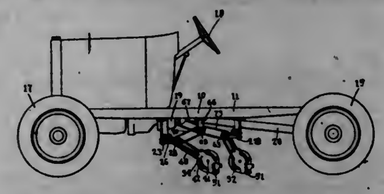
1. In a book sewing machine, a table for supporting book sections, a threaded needle arranged to enter a predetermined distance into book sections placed thereon and pause, said pause occurring intermediate the ends of its stroke, a support for said needle, said support rotatable about an axis approximately intersecting the point of said needle when said needle has entered said predetermined distance into said book sections, means for rotating said

support a certain distance while said needle is in its pausing position intermediate the ends of its stroke whereby said needle may continue its stroke and pass obliquely through said book sections, and a bobbin means coacting with said needle for completing a stitch.

1,917,648. PROCESS OF REFINING GASOLINE WITH ZINC CHLORIDE. FRANKLIN E. KIMBALL, Long Beach, Calif. Filed Jan. 24, 1933. Serial No. 653,287. 8 Claims. (Cl. 196—86.)

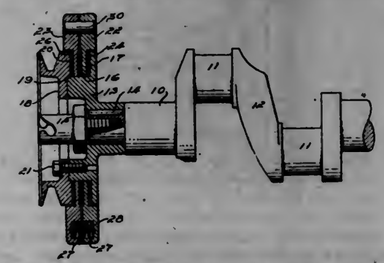
1. A method of refining gasoline comprising, heating mineral oil thereby forming hot gasoline vapors, passing the vapors into contact with a hot maintained treating mixture of water, zinc chloride and ammonium chloride thereby inducing polymerization of certain constituents of the vapors, separating and withdrawing from the treating mixture vapors that contain gums in the vapor phase that have been formed by the aforesaid polymerization, partially cooling and partially condensing the withdrawn vapors to form a liquid that contains the aforesaid gums, separating and withdrawing the vapors from the gum containing liquid and cooling the withdrawn vapors to condense the vapors to form gasoline.

1,917,649. MOWER. ROBERT S. KINKEAD, St. Paul, Minn. Filed July 20, 1929. Serial No. 379,769. 8 Claims. (Cl. 56—7.)



1. In combination with the frame of a vehicle, a mower frame, a reel journalled for rotation in said mower frame, a bed knife mounted in said frame and cooperating with said reel, attaching means secured to said vehicle frame, an arm hingedly connected to said attaching means at one end and hingedly connected at its other end to one end of the mower frame, a second arm hingedly connected to said attaching means at one end and rigidly connected at its other end to the other end of the mower frame, means for restraining the mower frame from lateral movement relative to the vehicle frame, means for retaining the mower bed knife at a predetermined height above the ground, and means for driving said reel.

1,917,650. VIBRATION DAMPER. FLOYD F. KISHLINE, Detroit, Mich., assignor to Graham-Paige Motors Corporation, a Corporation of Michigan. Filed Sept. 2, 1932. Serial No. 631,528. 7 Claims. (Cl. 74—6.)



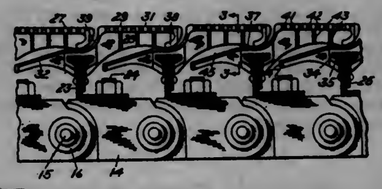
1. In a vibration damper, in combination, a crank shaft, a pair of mass members rotatably supported thereby, energy dissipating means urging said members toward equal rotation with said crank shaft, means eccentric to the axis of rotation of said crank shaft pivotally connecting said members together, and means urging said members toward relatively opposite directions of rotation about said pivotal connection.

1,917,651. NECKTIE. DAVID L. KRAKOWER, Tulsa, Okla. Filed Aug. 1, 1932. Serial No. 627,191. 3 Claims. (Cl. 2—146.)



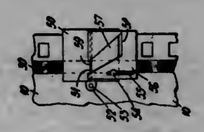
1. On a four-in-hand necktie, a plurality of loops in longitudinal series on the inner face of said necktie through any one of which one end portion of the necktie may be passed, and with said loops positioned at predetermined points with reference to both ends of said necktie and to the length of the circumference of the neckband portion thereof as may be determined by the neck sizes of the possible wearers of said necktie to cause the ends of said necktie to hang substantially even with each other after the knot has been tied in said necktie, and with the width of each of said loops being approximately equal to the width of that portion of the necktie which is designed to be held in one of the loops aforesaid when said knot is tied.

1,917,652. AUTOMATIC STOKER. EUGENE KRIEGER, Buffalo, N. Y., assignor to Riley Stoker Corporation, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 20, 1931. Serial No. 509,978. 10 Claims. (Cl. 110—40.)



1. A grate clip for a traveling grate stoker comprising a long narrow metal body having a centrally located supporting boss, an elevated fuel supporting portion at the leading end, and a depressed portion at the other end which has its upper surface below that of the fuel supporting portion, the center of gravity of the clip being in advance of the boss in the direction of travel, and the depressed portion being so shaped that when assembled with other similar clips the depressed portion will carry the leading end of the adjacent clip.

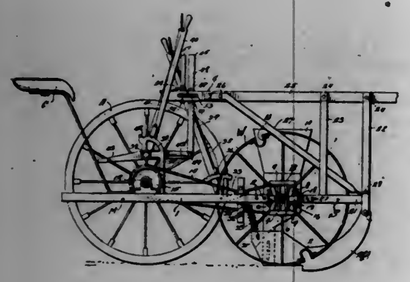
1,917,653. SOUND TRACK MECHANISM. JAY CLEIS KROESEN, Belleville, N. J. Filed Nov. 7, 1931. Serial No. 573,709. 6 Claims. (Cl. 179—100.3.)



1. In sound recording apparatus an improved aperture mechanism comprising a plate having a central transverse aperture extending across the major portion of the width

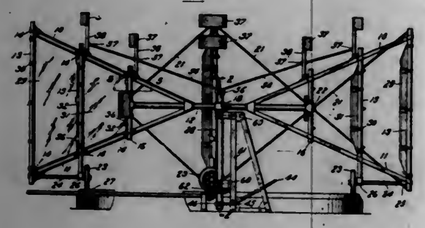
of the plate, an apertured lug formed at one side of said plate adapted to serve as a pivot therefor and thereby to determine the angular position of the aperture, and a second plate adjustably superposed on said first plate, said second plate being formed with a slanting recess of progressive width adapted to determine the position and extent of the effective aperture in the first said plate.

1,917,654. CORN PLANTER. COLONEL W. LANHAM, Chicago, Ill. Filed Jan. 23, 1932. Serial No. 588,404. 2 Claims. (Cl. 111—18.)



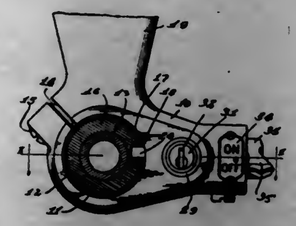
1. A corn planter comprising, in combination, a main frame, a seed dropping mechanism carried thereby, a front supplemental frame pivotally connected with the main frame, for swinging movement in a vertical direction, a machine tongue carried by the supplemental frame, said tongue having a vertically disposed opening, a rock arm carried by the main frame, means for operating the rock arm, a toothed bar pivotally connected to the rock arm and freely extending through the opening in the tongue, a lever carried by the tongue, and means operated by said lever for selectively engaging the teeth of the bar for locking said bar to the tongue and against endwise movement independently thereof.

1,917,655. WINDMILL. KENNETH H. LEASH, Oakland, Calif., assignor to H. E. Leash, Oakland, Calif. Filed Feb. 3, 1932. Serial No. 590,528. 12 Claims. (Cl. 170—26.)



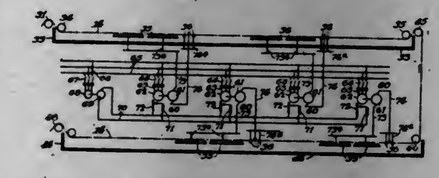
1. A windmill, in combination, a vertical shaft rotatably mounted, a plurality of radially disposed frames pivotally secured to said shaft for vertical pivotal movement, inner and outer vanes swingably mounted on a vertical axis in each of said frames, auxiliary vanes, auxiliary vane actuated stop means for each inner and outer vane adapted to cooperate with one side of said vanes and retarding vanes cooperating with each inner vane to cause the outer vane to open previous to the inner vane.

1,917,656. LOCK STRUCTURE. ALEXANDER C. MABEE, Villa Park, Ill., assignor to Oakes Products Corporation, North Chicago, Ill., a Corporation of Michigan. Filed Mar. 7, 1932. Serial No. 597,215. 26 Claims. (Cl. 70—127.)



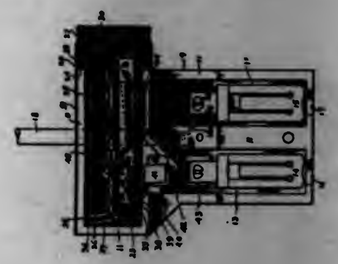
15. In combination, a first control, a second control, a rotatable actuating member for said first control, and a key operated locking bolt member for alternately locking said second control and releasing said actuating member.

1,917,657. GALVANIZING PROCESS AND APPARATUS. CHESTER M. MACCHESNEY and RALPH H. NORTON, Chicago, Ill., assignors to Acme Steel Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 4, 1929. Serial No. 330,393. 8 Claims. (Cl. 204—5.)



8. The method of coating a non-endless elongated metal strip which consists in passing said strip endwise through two successive electrolytic coating baths having anode bars located only below the strip, inverting said strip between said baths, and moving it in the second bath in a direction opposite to its movement in the first bath, whereby said strip is coated only on the under side thereof in each bath.

1,917,658. THERMOSTATIC CONTROL DEVICE. JOHN MARCHESE and WALTER R. EAMES, Portland, Oreg., assignors to Gualdets Inc., Portland, Oreg., a Corporation of Nevada. Filed July 21, 1930. Serial No. 469,292. 6 Claims. (Cl. 200—139.)



1. A heat control plug for electrically heated devices comprising a body provided with a pair of relatively offset portions and a connecting portion therebetween, a pair of electrical contacts mounted in one body portion, one of said contacts adapted for fixed connection to a conductor of an electric circuit, the second contact having make and break connection with said circuit, and a thermostatic bar mounted in the other body portion and connected with said second contact through the connecting body portion whereby said second contact is connected intermittently in said circuit.

1,917,659. ENDLESS CONVEYER. CHARLES HERBERT MARSHALL, Erith, Kent, England. Filed July 8, 1931, Serial No. 549,477, and in Great Britain July 8, 1930. 4 Claims. (Cl. 198—165.)

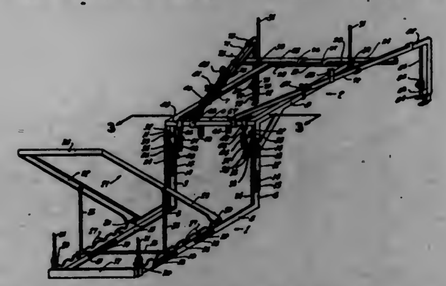


1. A conveyer device for lowering material comprising a downwardly-extending framework, a pair of endless conveyer belts passing down the framework with faces opposite and adjacent to one another, a pair of pulleys mounted at the lower end of the framework and around which the respective belts pass, each of said pulleys being provided with a deep screw thread in which material escaping around the edge of the associated belt is accommodated without being compressed between the belt and the surface of the pulley until finally outwardly ejected by the thread.

1,917,660. METHOD OF SEPARATING AND RECOVERING ACETIC AND BUTYRIC ACIDS. JEROME MARTIN and IGNACE J. KRCHMA, Terre Haute, Ind., assignors to Commercial Solvents Corporation, Terre Haute, Ind., a Corporation of Maryland. Filed July 9, 1928. Serial No. 291,477. 20 Claims. (Cl. 260—122.)

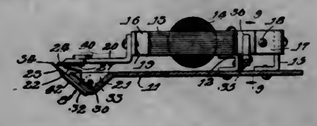
1. In a method for separating aliphatic acids existing together in aqueous solution, the steps which comprise adding to said solution a water-soluble normal inorganic salt of an acid at least as strong as acetic acid, and subsequently extracting the resulting solution with a substantially water-immiscible liquid, said liquid being a solvent for at least one of the acids thus preferentially salted out.

1,917,661. ADJUSTABLE FRACTURE FRAME. EARL D. MCBRIDE, Oklahoma City, Okla. Filed Sept. 22, 1930. Serial No. 483,580. 7 Claims. (Cl. 128—84.)



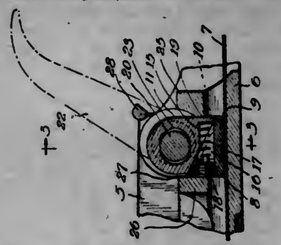
1. A device of the class described, embodying a substantially rectangular frame comprising a first and second section, said sections lying on two different horizontal planes with one end of the first section below and in a vertical plane with the opposite end of the second section, said ends having vertical connection at each of their sides, means for adjusting the vertical distance between said connected ends, said first section bearing a longitudinally adjustable body supporting frame adapted for disposition at various angles of inclination, means carried by said second section for supporting a patient's hips and upper legs adjustably as to height, tortion, and spread, means carried by said second section for supporting the patient's knees adjustably as to height and spread, and means also carried by said second section for supporting the patient's lower legs adjustably as to height and spread.

1,917,662. HAIR CLIPPER. NILS E. NORSTROM, Chicago, Ill. Filed May 18, 1930, Serial No. 452,031. Renewed Sept. 26, 1932. 16 Claims. (Cl. 30—1.)



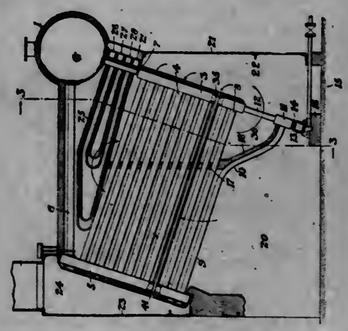
1. In a hair clipper, the combination with a base, a spring secured thereto, and a lower blade supported upon said spring, of an upper blade resting upon the lower blade, and an electro-magnetic power device carried upon the base and serving to reciprocate the upper blade on the lower blade.

1,917,663. GRIPPER. HOWARD C. PORTER, La Grange Park, Ill., assignor to Signode Steel Strapping Company, Chicago, Ill., a Corporation of Delaware. Filed July 14, 1932. Serial No. 622,439. 9 Claims. (Cl. 254—51.)



1. A binder gripper comprising a frame having a stationary member to engage one side of a binder, a wedge shaped movable member to engage the opposite side of the binder, a mounting for the movable member having a slidable connection therewith, and means for moving the mounting toward and from the stationary member.

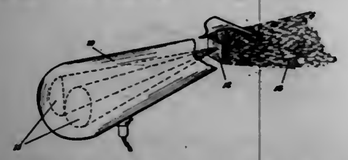
1,917,664. BOILER. JOHN RINNE, Upper Darby, Pa., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Jan. 5, 1931. Serial No. 506,568. 2 Claims. (Cl. 122—268.)



1. A water tube boiler including a bank of inclined tubes with gas tubes located therein; a lower row of water

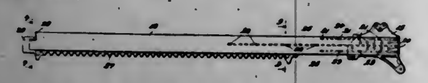
tubes located below the bank of inclined tubes and above a combustion chamber, said lower row of tubes being curved downward at one end; a baffle supported by said lower row of tubes and resting on the curved part thereof, constructed to direct gases of combustion from the combustion chamber across said tubes in at least two directions, and thence through the interiorly located gas tubes.

1,917,665. SYSTEM OF SELECTIVE ROAD ILLUMINATION FOR AUTOMOBILES. WEAVER A. RUSH, Beatrice, Nebr. Filed Feb. 9, 1931. Serial No. 514,546. 5 Claims. (Cl. 240—21.)



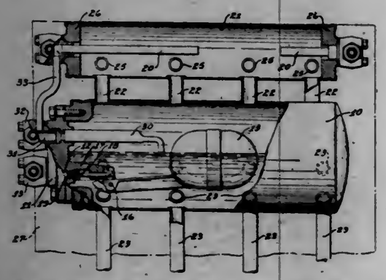
3. In a road illumination system for automobiles, a lamp, a dispersion lens for the lamp for illuminating the right-hand portion of the road, a second lamp, a second dispersion lens for the second lamp for illuminating the left-hand portion of the road, a third lamp, and a prism for the third lamp for illuminating the ditch at the right-hand side of the road, the lamps illuminating said second lens and said prism being operative only one at a time.

1,917,666. WELDED DIPPER STICK CONSTRUCTION. LESLIE A. RUSSELL, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Feb. 21, 1931. Serial No. 517,595. 3 Claims. (Cl. 214—145.)



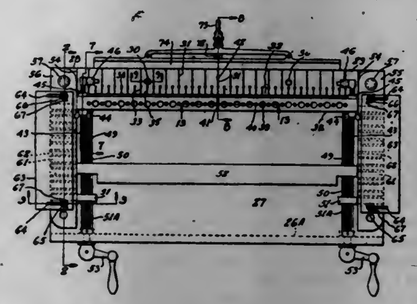
1. A dipper stick comprising a pair of side members, each of which is formed of a pair of opposing channel members placed together and welded along their adjoining edges, at least one of the said channel members having spaced apart series of aligned openings therethrough, and a plurality of reinforcing plates within the channel members, the said plates having edge surfaces engaging the inner faces of the channel members and registering with the said openings, and being secured in position by angle welds at the inner surface of one of the channel members and by rivet welds through said openings in the other channel member.

1,917,667. EVAPORATOR. FRANKLIN G. SLAGEL, Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 17, 1930. Serial No. 445,119. 7 Claims. (Cl. 62—126.)



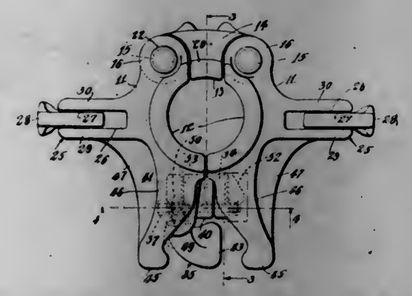
3. In an evaporator for refrigerating systems, a container, means for maintaining a substantially constant body of liquid refrigerant in the container, a super-posed chamber in open communication with the container, an outlet conduit leading from the chamber, and separate duct means in open communication with the liquid refrigerant in the container and with the outlet conduit leading from the chamber.

1,917,668. DOWELING JIG. BURTON E. SMITH, Portland, Oreg. Filed May 12, 1931. Serial No. 536,732. 4 Claims. (Cl. 77—62.)



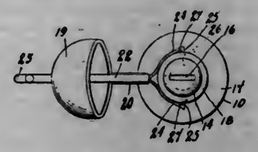
1. In a doweling jig, the combination of a table, a head block mounted along the rear edge of said table, said head block having its length divided into unit sections by means of vertical slots, stops adapted to occupy any of said slots, an elongated bit bar adjustably and hingedly mounted in front of and above said head block, clamp means for holding work against said block, a short bit bar hingedly mounted at the end of said head block for the purpose of forming an extension therefor, the holes in said short bit lying in horizontal plane at all times while the holes in said elongated bit bar occupy a vertical plane when in an operative position, and means for selectively positioning the parts in response to the sense of feeling comprising a scale having its calibrations in the form of grooves corresponding with alternate vertical slots in said head block.

1,917,669. ELEVATOR. NELSON K. SMITH, Los Angeles, Calif., assignor to Byron Jackson Co., Los Angeles, Calif., a Corporation of Delaware. Filed Dec. 7, 1929. Serial No. 412,479. 10 Claims. (Cl. 294—90.)



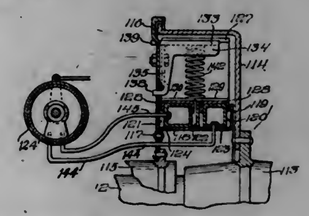
1. An elevator of the character described comprising doors provided in their inner faces with concave recesses, means pivotally connecting said doors at one end, a lug on the other end of each door, a latch mounted on one of the doors at a different level than the lugs and movable toward and from said doors and provided with a recess to receive the lugs when the doors are closed.

1,917,670. CLOSURE FOR COLLAPSIBLE TUBES. CLARE D. SPILLER, Philadelphia, Pa. Filed July 29, 1932. Serial No. 625,605. 8 Claims. (Cl. 221—60.)



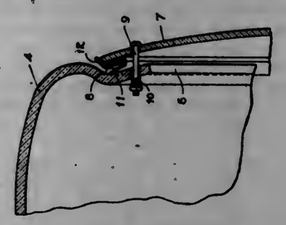
1. A closure for collapsible tubes comprising a base member, a nozzle upstanding from the base member, a cap hinged to the base member, and an operating lever hinged to the base member and extending through an orifice in the cap.

1,917,671. BRAKE. RODOLPHE STAHL, Detroit, Mich. Filed Apr. 20, 1929. Serial No. 356,813. 17 Claims. (Cl. 188—152.)



12. In a brake mechanism, a brake drum, a brake element, engageable with said drum, a plurality of expansible members each cooperatively associated with substantially the entirety of said element, and means for progressively expanding said expansible members.

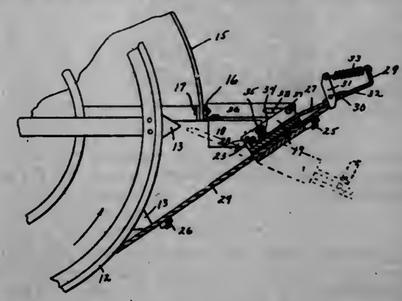
1,917,672. SIGN GLOBE. ANDREW H. STEWART, Shields, Pa., assignor to The Phoenix Glass Company, Monaca, Pa., a Corporation of West Virginia. Filed Oct. 26, 1932. Serial No. 639,609. 3 Claims. (Cl. 40—131.)



1. The combination with a globe body having a peripheral portion and a side wall, the peripheral portion being extended to partially overlie the side wall, of a substantially annular seating ring disposed against the side wall along a line adjacent to the inner boundary of the said overhanging portion, and having an outwardly-exposed groove, a face plate, and means for securing the face plate against the outer side of said ring.

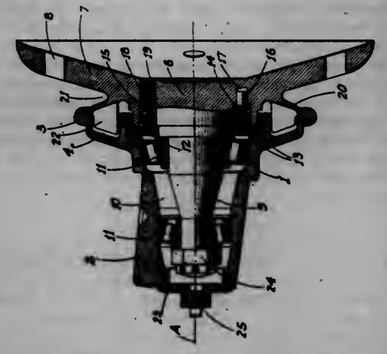
1,917,673. SCRAPER ATTACHMENT FOR TRACTOR WHEELS. WILLIAM B. THIEMANN, Albert City, Iowa. Filed Dec. 15, 1930. Serial No. 502,388. 4 Claims. (Cl. 280—158.)

1. A scraper attachment for traction wheels comprising a support, a scraper guide on said support, a scraper slidably mounted in said guide having its inner end adapted to be supported in operative relation with the wheel rim and its outer end projecting beyond said guide, a pivoted latch supporting plate parallel with the outer end of said blade to swing toward and from said blade,



yieldable means for holding said latch supporting plate inwardly, a pivoted latch carried by said plate having one end designed to engage the outer end of said blade, and yieldable means for supporting the blade engaging end of said latch against outward movement.

1,917,674. WATER, DIRT, AND OIL TIGHT DISK ASSEMBLY. LESTER C. WEAVER, Stockton, Calif. Filed Mar. 12, 1931. Serial No. 521,998. 7 Claims. (Cl. 286—5.)

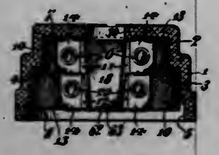


4. In combination, a relatively stationary member, a rotary member turnably mounted thereon, and projecting from one end thereof, oil sealing means betwen the members at the adjacent end of the stationary member, an annular channel formed with the stationary member and extending about the sealing means in facing relation to the rotary member, said channel having a bottom outlet and means formed with the rotary member to engage and sweep any dirt entering said channel to the bottom outlet.

1,917,675. ADJUSTABLE RESISTANCE DEVICE. CARL L. WEICHELT, Philadelphia, Pa., assignor to Wirt Company, Philadelphia, Pa., a Corporation of Maine. Filed Nov. 12, 1930. Serial No. 495,017. 2 Claims. (Cl. 201—55.)

1. In an adjustable resistance device, the combination of a casing having portions the interiors of which are of different diameters and also having upon its inner side a wedge-shaped projection which is tapered from the bottom toward the top, relatively flat resistance members located in the said casing, one of the said members being positioned in the portion of smaller diameter and

the other in the portion of larger diameter of said casing, and the opposite ends of said resistance members being in engagement with the opposite sides of the wedge-shaped



projection, contact members for engaging the said resistance members, and an adjustable support for the said contact members.

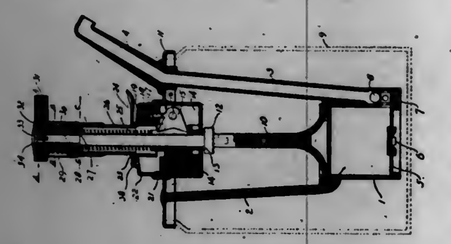
1,917,676. PROCESS FOR THE SIMULTANEOUS PRODUCTION OF BUTYL ALCOHOL AND ACETONE BY FERMENTATION. HUGO WERTHEIM, Vienna, Austria. Filed Feb. 13, 1930, Serial No. 428,234, and in Austria Feb. 23, 1929. 19 Claims. (Cl. 260—135.)

1. A process for the manufacture of butyl alcohol and acetone characterized by habituating bacteria of the species *Amylobacter A.M. and Bredemann*, by cultivation, to increasing amounts of acid, and fermenting carbohydrate material by means of the so immunized bacteria to produce mainly butyl alcohol and acetone.

1,917,677. PROCESS FOR PRODUCING BUTYL ALCOHOL AND ACETONE BY FERMENTATION. HUGO WERTHEIM, Vienna, Austria. Filed Feb. 13, 1930, Serial No. 428,235, and in Austria Feb. 23, 1929. 14 Claims. (Cl. 260—135.)

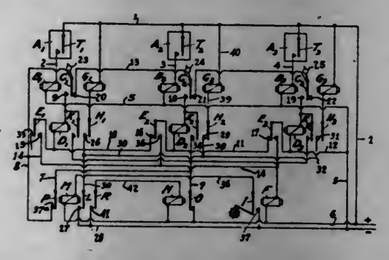
1. A process for the production of butyl alcohol and acetone by fermentation which comprises preparing a sterile carbohydrate mash, acidulating it before initiating fermentation, inoculating said mash with bacteria of the species *Amylobactor A. M. and Bredermann*, butylacetonic bacilli, permitting the fermentation to go to completion and recovering butyl alcohol and acetone from the fermented mash.

1,917,678. ADJUSTABLE POSITIVE-MEASURING PUMP. HARLEY T. WHEELER, Dallas, Tex., assignor to Elizabeth Wheeler, Dallas, Tex. Filed Feb. 15, 1930. Serial No. 428,752. 2 Claims. (Cl. 225—35.)



2. In a pump, a cylinder having a piston and a piston rod therein, a series of teeth formed on said rod, a double-pointed detent pivotably situated at a fixed point with relation to the pump frame, either point of said detent engageable with the series of teeth on said rod, means to hold the detent in either of its extreme positions; a spring-tensioned threaded spool rotatively positioned on the upper end of said rod, a sleeve threaded to fit said threaded spool and means to position said sleeve radially with respect to said rod; a dial fixed to the upper end of said rod and its circumference visibly graduated in terms of piston stroke, a winged nut housing the periphery of said dial and attached to said threaded nut, rotation of the winged nut and threaded spool assembly varying the distance of the end of said threaded sleeve with respect to the position of said detent; said threaded sleeve in motion contacting with one face of said detent to reverse it at a point predetermined according to the graduation of the visible dial in terms of piston stroke; a secondary sleeve concentric with said threaded sleeve operatable by a lever from an exterior point of the pump frame, to contact with one face of said detent to reverse it and permit a return stroke of said rod from any point less than the predetermined stroke.

1,917,679. CIRCUIT ARRANGEMENT FOR THE REGISTRATION OF ELECTRIC IMPULSES. HELGE ALLAN WIBERG, Falun, Sweden, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a Company of Sweden. Filed Sept. 24, 1929, Serial No. 394,913, and in Sweden Oct. 4, 1928. 5 Claims. (Cl. 235—92.)



1. In an impulse registering system the combination of a number of impulse senders, an impulse registering device to be operated by impulses from said impulse senders, an impulse separator interconnected between said impulse senders and impulse registering device and comprising a primary impulse separating relay of the self-locking type for each impulse sender means for energizing said relay by the impulses sent from the impulse sender, a secondary impulse separating relay for each impulse sender, the circuits of the secondary relays being controlled by the primary relays so as to prevent more than one secondary relay to be operated at a time and to prepare the circuit of another secondary relay upon a primary relay being unlocked, means under the control of said secondary relays for unlocking said primary relays in succession, and means for sending an unlocking impulse for each operation of the registering device.

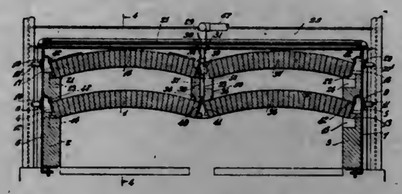
1,917,680. PROCESS FOR THE MANUFACTURE OF A CARBON DIOXIDE MANURE. DIETRICH WITT, Karlshorst, Germany. Filed July 13, 1931, Serial No. 550,626, and in Germany July 14, 1930. 10 Claims. (Cl. 71—6.)

2. An artificial manure which will give off carbon dioxide consisting of coke of brown coal and a catalytic agent consisting of an oxide of one or more metals which will accelerate oxidation.

1,917,681. POLYHYDRIC ALCOHOL ESTER OF ALIPHATIC CARBOXYLIC ACIDS. ROGER ADAMS, Urbana, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a Corporation of Illinois. Filed Jan. 21, 1931. Serial No. 510,287. 6 Claims. (Cl. 260—106.)

1. As a new composition of matter, especially useful as a bactericidal or bacteriostatic agent, a polyhydric alcohol ester of RCH(COOH)R', where R and R' are alkyl groups containing a total of not less than 12 or more than 20 carbon atoms.

1,917,682. FURNACE. WILLIAM GORDON ADAM and PERCY GRAY, Westminster, England. Filed Sept. 30, 1931, Serial No. 566,150, and in Great Britain Oct. 1, 1930. 7 Claims. (Cl. 266—44.)



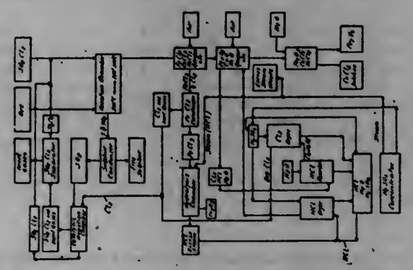
4. A furnace having a roof formed in one span, abutments supporting the ends of the roof, and means incorporated with the abutments to allow the admission of secondary air into the space below the arcuate roof and approximately at the angular corners thereof, said means including springers, each provided at its lower portion with an undercut recess of a downwardly converging form to receive a brick of refractory material, said means including adjacent elements forming skew-backs, and ribs provided between the elements to form an air flow space, with the abutments formed with slots to permit the flow of air from said space below the arcuate roof.

1,917,683. ELECTRIC PLUG. WILLIAM THEODORE ANDERSON, Indianapolis, Ind. Filed Apr. 28, 1931. Serial No. 538,541. 1 Claim. (Cl. 173—361.)



In combination with a plug of the class described, a pair of stem members each formed with a tubular part at its inner end located in and attached to the plug for receiving the ends of conductors and means for attaching the ends of the conductors to said tubular parts, such means comprising a clamping plate pivotally connected to the tubular part, each plate being of L-shape with the short arm extending into the tubular part and its long arm located exterior of said part.

1,917,684. PRODUCTION OF FERRIC OXIDE AND THE RECOVERY OF SULPHUR. RAYMOND F. BACON, Bronxville, and HENRY T. HOTCHKISS, Jr., New Rochelle, N. Y.; said Hotchkiss, jr., assignor to said Bacon. Filed Feb. 26, 1930. Serial No. 431,471. 5 Claims. (Cl. 23—200.)



1. The method of treating iron sulphide-bearing material which comprises subjecting the material to the action of sulphuryl chloride in such quantity and at such temperature that ferrous chloride and elemental sulphur are produced and the sulphur is vaporized in an atmosphere of sulphur dioxide liberated from the sulphuryl chloride, subjecting the ferrous chloride to the action of air to form ferric chloride and ferric oxide, treating the ferric chloride to form hydrogen chloride and ferric oxide, subjecting the hydrogen chloride to the action of air in the presence of the ferric oxide produced in the treatment of ferrous chloride with air to obtain chlorine, combining the chlorine with sulphur dioxide to form sulphuryl chloride, and utilizing the sulphuryl chloride thus formed for the treatment of additional iron sulphide-bearing material.

1,917,685. RECOVERY OF SULPHUR. RAYMOND F. BACON, Bronxville, and ISAAC BENCOWITZ, New York, N. Y.; said Bencowitz assignor to said Bacon. Filed July 29, 1930. Serial No. 471,588. 8 Claims. (Cl. 23—226.)

1. The process of producing elemental sulphur from gases containing sulphur dioxide which comprises, contacting the sulphur dioxide gases with carbonaceous reducing gas in a reaction chamber at an elevated temperature to rapidly react to produce elemental sulphur, passing said gases through said chamber at such rate of flow that the gases will be discharged therefrom substantially immediately upon completion of the sulphur producing reaction, and rapidly cooling said discharge gases, to restrain the formation of compounds of sulphur therein.

8. The process of producing elemental sulphur from roaster or smelter gases which comprises, introducing said gases into a reaction chamber at a temperature of approximately 1000° C. or above, introducing carbonaceous reducing gases into said chamber in amounts suitable to react with said roaster gases to obtain the sulphur in elemental form, rapidly passing the hot exit gases from said chamber in heat-exchanging relationship with said carbonaceous reducing gases prior to their introduction into the reaction chamber, and then quickly and substantially cooling the exit gases after such heat exchange to restrain the formation of compounds of sulphur.

1,917,686. RECOVERY OF SULPHUR. RAYMOND F. BACON, Bronxville, and ISAAC BENCOWITZ, New York, N. Y.; said Bencowitz assignor to said Bacon. Filed July 30, 1930. Serial No. 471,888. 4 Claims. (Cl. 23—226.)

1. In a process for treating pyrites to recover sulphur, the improvement which comprises subjecting the pyrites-bearing material to the action of hydrogen chloride in the presence of water vapor.

1,917,687. RECOVERY OF SULPHUR. RAYMOND F. BACON, Bronxville, and HENRY T. HOTCHKISS, Jr., New Rochelle, N. Y.; said Hotchkiss, Jr., assignor to said Bacon. Filed Sept. 8, 1930. Serial No. 480,625. 10 Claims. (Cl. 23—226.)

1. In the smelting of sulphide ores, the process of recovering elemental sulphur which comprises, introducing a fluid reducing agent into the furnace charge at a point above the combustion zone but sufficiently close to the focus that the temperature is sufficiently elevated to initiate the reaction between the sulphur dioxide and the reducing agent providing said agent in amount suitable to reduce the sulphur dioxide from the combustion zone to elemental sulphur and to maintain a non-oxidizing atmosphere for the elemental sulphur produced by the reduction and volatilization at least while said sulphur is susceptible to existing oxidizing influences, passing said reducing agent and the accompanying gases from the combustion zone through the furnace charge, and separating the elemental sulphur from the accompanying gases externally of the furnace.

1,917,688. RECOVERY OF SULPHUR. KENNETH M. BAUM, Clarkdale, Ariz., assignor to United Verde Copper Company, Clarkdale, Ariz., a Corporation of Delaware. Filed Sept. 25, 1929. Serial No. 395,179. 13 Claims. (Cl. 23—226.)

1. The method of recovering sulphur which comprises subjecting hydrogen sulfide to the action of sulphur dioxide in the presence of a mixture of activated carbon and a mineral gel.

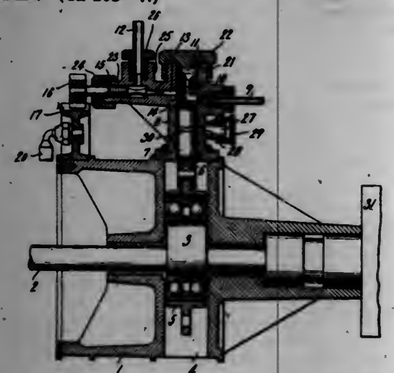
5. An agent for promoting a reaction between hydrogen sulphide and sulphur dioxide comprising a mixture of activated carbon and an artificial zeolite.

1,917,689. RECOVERY OF SULPHUR. KENNETH M. BAUM, Clarkdale, Ariz., assignor to United Verde Copper Company, Clarkdale, Ariz., a Corporation of Delaware. Filed Sept. 25, 1929. Serial No. 395,180. 8 Claims. (Cl. 23—226.)

1. The method of recovering sulphur which comprises subjecting hydrogen sulphide to the action of sulphur dioxide in the presence of a mixture of activated carbon and silica gel.

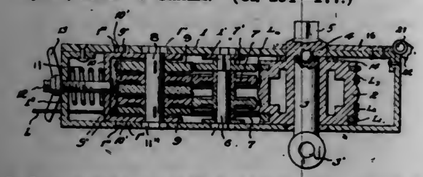
3. An agent for promoting a reaction between hydrogen sulphide and sulphur dioxide comprising a mixture of activated carbon and silica gel.

1,917,690. FUEL SUPPLY PUMP. LOUIS BEEH, Longmeadow, Mass., assignor to United American Bosch Corporation, Springfield, Mass., a Corporation of New York. Filed July 12, 1932. Serial No. 622,074. 7 Claims. (Cl. 103—7.)



1. A pump comprising a barrel and a plunger movable therein, a discharge pipe, a supply pipe and an air port in the barrel in position to be overrun by the plunger at the outer end of its stroke and connecting the interior of the barrel with the atmosphere adjacent the supply pipe, said barrel and plunger forming a chamber and being formed so that the interior walls of said chamber are rigid throughout.

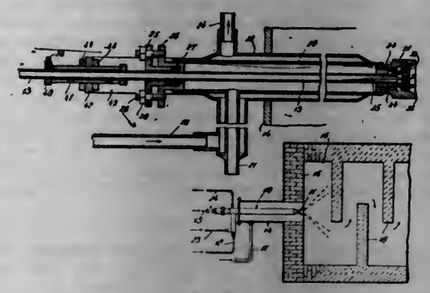
1,917,691. CAPSTAN. FRANZ BELT, Vienna, Austria. Filed July 16, 1929, Serial No. 378,725, and in Austria July 20, 1928. 9 Claims. (Cl. 254—177.)



1. In a capstan, a casing, a capstan drum journalled in said casing, a cable trained over said drum, carrier rollers mounted for rotary and radial movement in said casing and also having the cable trained thereover leading from the capstan drum, and pressure rollers mounted for rotary and radial movement in the casing and interposed between the rollers and the capstan drum and enclosed within the portion of the cable extending between the carrier rollers and the drum, said pressure rollers being brought into frictional engagement with the portion of the cable engaging the capstan drum when the cable is tensioned

---

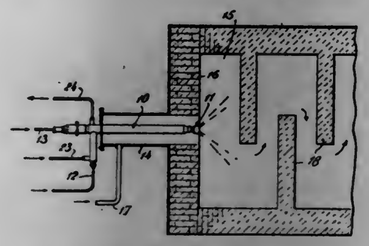
1,917,692. SULPHUR BURNER. ISAAC BENCOWITZ, New York, N. Y., assignor to Texas Gulf Sulphur Company, a Corporation of Texas. Filed July 16, 1931. Serial No. 551,193. 14 Claims. (Cl. 23—276.)



1. Sulphur burning apparatus comprising a combustion chamber, and means for introducing a whirling spray comprising molten sulphur and oxygen into the combustion chamber.

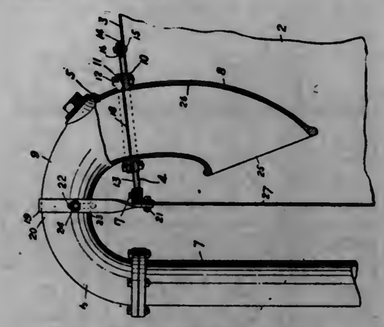
8. Sulphur burning apparatus comprising a pair of telescoping tubes having their walls spaced apart to provide a passage therebetween, means for introducing a gas into the inner tube, means for introducing molten sulphur into the passage between the tubes, a heating element surrounding the outer tube for aiding in maintaining sulphur therein in a molten condition, a fluid discharge nozzle associated with adjacent ends of said tubes and having passages communicating with the passages in the tubes, and means within the discharge nozzle for imparting a whirling movement to fluid issuing therefrom.

1,917,698. PRODUCTION OF SULPHUR DIOXIDE. ISAAC BENCOWITZ, New York, N. Y., assignor to Texas Gulf Sulphur Company, a Corporation of Texas. Filed July 16, 1931. Serial No. 551,194. 15 Claims. (Cl. 23—179.)



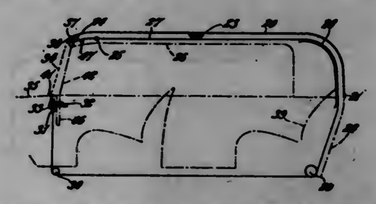
1. In a process for producing sulphur dioxide, the step which comprises directing a whirling current of a high pressure oxygen-containing gas against a stream of molten sulphur to produce a spray comprising an intimate mixture of finely divided sulphur and oxygen.

1,917,694. FIRE EXTINGUISHING APPARATUS. FISHER L. BOYD, Haverford, Pa., assignor to National Foam System, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Mar. 28, 1929. Serial No. 350,471. 3 Claims. (Cl. 169—4.)



2. Apparatus for extinguishing the fire of a burning tank of inflammable liquid material, comprising a substantially continuous conduit having a discharge opening, the portion of said conduit adjacent and leading to said opening being of gradually enlarged cross-section so that the velocity of the material passing through said conduit may be decreased, the discharge opening of said conduit being disposed in a vertically inclined plane such that it faces downwardly and toward the inner side of a portion of the wall of the said tank to cause the fire-extinguishing material to strike the same and flow downwardly thereon and thence over the surface of said inflammable material.

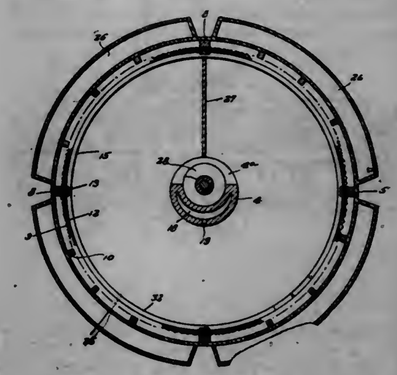
1,917,695. ROOF AND COVER, PARTICULARLY ADAPTED FOR MOTOR CARS AND THE LIKE. ARTHUR HENRY BRINVILLIERS, Chelsea, London, England. Filed Sept. 22, 1931, Serial No. 564,435, and in Great Britain Sept. 22, 1930. Renewed May 12, 1933. 4 Claims. (Cl. 296—137.)



1. A cover for motor cars and the like comprising a strip of flexible material anchored at one end to the car body and looped upon itself, longitudinal guides disposed above the car body, a transverse member shiftable in said guides in a direction longitudinally of the flexible material and engaged in the bight of the loop of the flexible material, means operatively connected to the free end of the flexible material for shifting said transverse member forwardly and rearwardly of the guides to lengthen and shorten said loop of the flexible material, means for detachably securing the edges of the flexible material to the guides, and means carried by the transverse member for simultaneously unfastening the edges of the material from the guides and folding said edges inwardly upon themselves to overlap the ends of the transverse member during shifting of the transverse member.

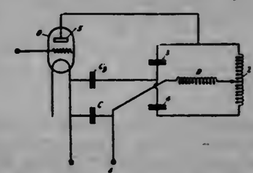
1,917,696. CONTINUOUS PRESSURE FILTER. CARL BUDKE, Mayfield, Ky. Filed June 12, 1931. Serial No. 543,939. 5 Claims. (Cl. 210—202.)

1. In a filter device of the class described, a stationary tubular member having an elongated chamber in its lower part, the bottom wall of which is provided with perforations, a cylinder rotatably arranged on an intermediate part of the tubular member and enclosing that part which is provided with the perforations, a cylindrical filtering medium in the cylinder and spaced from the circumference thereof, the circumferential part of the cylinder having perforations therein, a chamber forming member connected with the cylinder for receiving liquid passing through the perforations therein, means for introducing the liquid to be filtered into the chamber of the tubular member under pressure, whereby said liquid



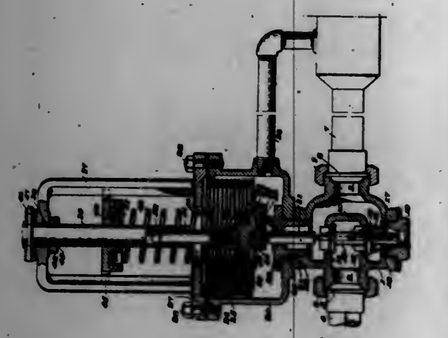
will pass through the perforations in the walls of the said chamber, and thus enter the cylinder, that part of the tubular member within the cylinder having an elongated opening in its upper portion, an upwardly projecting blade attached to the upper part of the tubular member for scraping the solids from the filtering medium, and guiding the same through the opening into the tubular member, means for conveying the solids thru the tubular member and discharging them therefrom and means for discharging the liquid collecting in the chamber attached to the cylinder.

1,917,697. TUBE TRANSMITTER CIRCUIT ARRANGEMENT. WERNER BUSCHBECK, Berlin, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed May 28, 1929, Serial No. 366,582, and in Germany June 30, 1928. 1 Claim. (Cl. 250—36.)



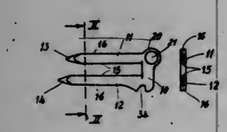
Signaling means comprising, a thermionic tube device having a cathode and cold electrodes, an oscillation circuit comprising a capacity and an inductance connected in parallel, means connecting adjacent ends of said capacity and said inductance to a cold electrode, means for applying direct current potential to said cold electrode including a choke coil connected at one end to a point intermediate the terminals of said inductance, capacitive means for connecting a point intermediate the terminals of said parallel capacity to said cathode, and capacitive means for connecting the free end of said choke coil to said cathode, said last named capacitive means and connection being entirely separate from said first named capacitive connecting means.

1,917,698. PRESSURE CONTROLLED VALVE. WILLIAM W. CARSON, Jr., Knoxville, Tenn., assignor to The Fulton Syphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Oct. 8, 1928. Serial No. 311,205. 10 Claims. (Cl. 50—23.)



1. A device of the class described comprising a body, a valve, a diaphragm operatively connected with said valve and forming with said body a pressure chamber, means subjecting said chamber to the pressure to be controlled, a single spring for loading said diaphragm and positively connected thereto at one end, and a single element to which the opposite end of said spring is positively connected, said element being adjustable to place said spring under either a predetermined tension or a predetermined compression.

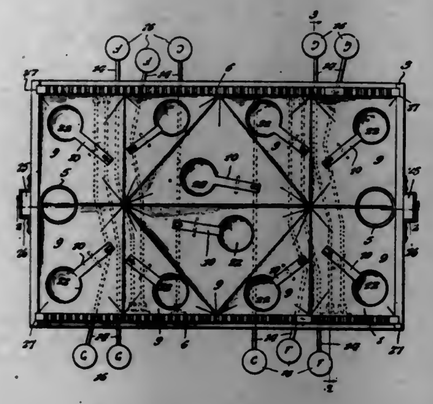
1,917,699. DRAWING MECHANISMS FOR TEXTILE ROVINGS. FERNANDO CASABLANCAS, Sabadell, Spain. Filed Feb. 16, 1932, Serial No. 593,342, and in Spain Feb. 26, 1931. 2 Claims. (Cl. 19—131.)



1. A belt spacing device for roving machines having a supporting frame and a pair of spaced belts therein, comprising a rigid non-deformable body portion having spaced parallel rods adapted to be inserted beneath the opposed belts for holding the same in predetermined closely spaced apart relation and having rounded inner edges for decreasing frictional contact between the rods and the belts, said rods having abrupt edges at their outer sides to offset wrapping of the loosened fluff from the roving around the rods and maintain the rounded edges of the rods clear.

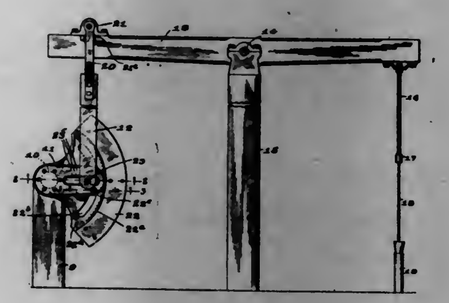
1,917,700. GAME. CURTIS LUBIN CLARK, Eddy, Tex. Filed Feb. 17, 1932. Serial No. 593,593. 3 Claims. (Cl. 273—85.)

1. A game apparatus comprising a playing field having depressions in its surface, rocking arms pivotally mounted intermediate their ends in the depressions and formed with substantially circular terminal heads the upper faces of which are concave to receive and support a ball, goals supported above the playing field at the ends



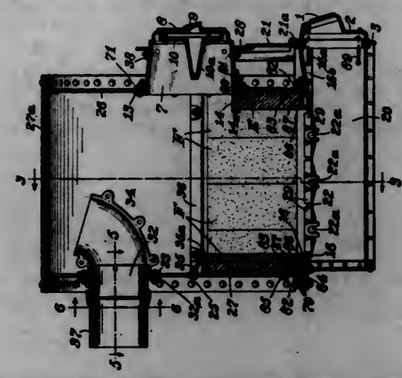
thereof, and means below the playing field for manipulating the rocking arms whereby a ball resting upon an arm will be tossed toward a goal.

1,917,701. WELL EQUIPMENT. WILBUR J. CRITES and DONALD R. KNOWLTON, Bartlesville, Okla., assignors to Phillips Petroleum Company, Bartlesville, Okla., a Corporation of Delaware. Filed Jan. 7, 1932. Serial No. 585,853. 3 Claims. (Cl. 74—14.)



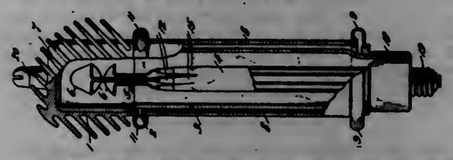
1. Well pumping or drilling mechanism of the walking beam type, including a rotatable crank shaft member, a crank member detachably connected to said shaft member and adjustable around the axis of said shaft member, means for securing the crank member in various positions of adjustment on said shaft member, a pitman, means pivotally connecting the pitman to the crank member, the last mentioned means being adjustable lengthwise of the crank member, means pivotally connecting the pitman to the walking beam, the last mentioned means being adjustable lengthwise of the walking beam, the shaft member having a cylindrical socket and the crank member being provided with a cylindrical pin projecting into said socket, said members being provided with interlocked teeth radiating from the axis of the shaft.

1,917,702. FURNACE. SAMUEL DANIELS, Hardwick, Vt. Original application filed Jan. 19, 1929, Serial No. 333,587. Divided and this application filed Apr. 23, 1930. Serial No. 446,772. 2 Claims. (Cl. 126—99.)



1. In combination in a furnace including a combined combustion chamber and fire pot unit having upwardly extending side walls, a frame at the bottom of the combined unit providing a support for the unit and fire brick, said frame having inner and outer upstanding flanges and an intermediate flange forming an outer groove receiving the lower edges of the walls of said unit, and an inner groove receiving the lower ends of a fire brick lining to hold the brick in place, horizontally disposed casting secured to the side and rear walls having downwardly disposed terminal flanges to overlie and hold the top of the fire brick in place, and a feed tube on the front wall having an apron extending inwardly with a depending terminal flange for holding and protecting the fire brick beneath the apron on the front side.

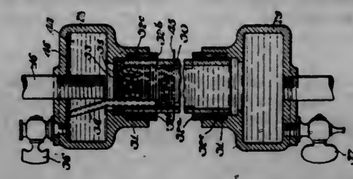
1,917,703. THERMIONIC TUBE. KARL WILHELM DAUMANN, Hamburg, Germany, assignor to the Firm C. H. F. Müller Aktiengesellschaft, Hamburg, Germany. Filed Feb. 27, 1930, Serial No. 431,876, and in Austria Mar. 4, 1929. 4 Claims. (Cl. 250—27.5.)



1. A thermionic tube consisting of an evacuated, insulating vessel which is closed at one end by a pot-like cylindrical anode and in which a support for the incandescible cathode is mounted axially at the end opposite to that where the anode is mounted, the cathode consisting of arc-like wires, the apices of which are directed towards the end wall of the anode, and an insulating cylinder of a material which is impervious to X-rays mounted concentrically over the evacuated vessel and coaxial therewith, said cylinder being resiliently held in position by an annular sheet metal member having a small cross-section and large surface in order to minimize the transmission of heat.

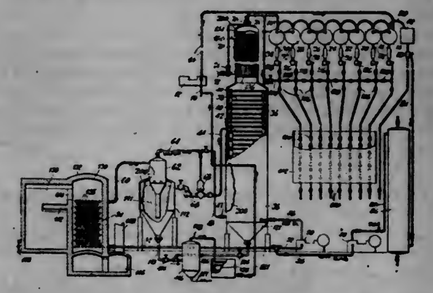
1,917,704. SYSTEM AND APPARATUS FOR TREATING LIQUID. AUSTIN C. DREASHER, Philadelphia, Pa., assignor to Cochrane Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 27, 1929. Serial No. 416,931. 7 Claims. (Cl. 210—38.)

1. In apparatus of the character described, a casing having a chamber at one end thereof, an inlet connection at said end of the casing, and means in said casing providing a partition between said inlet connection and the other



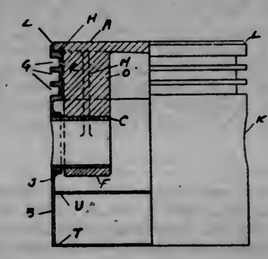
end of said casing, said partitioning means provided with a passage permitting of liquid-flow through the same and with a vent opening independent of such passage.

1,917,705. CRACKING HYDROCARBON OILS. HENRY L. DOHERTY, New York, N. Y., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Original application filed Feb. 24, 1920, Serial No. 361,030. Divided and this application filed Oct. 1, 1931. Serial No. 566,268. 5 Claims. (Cl. 196—59.)



1. A process of distilling oil comprising continuously circulating oil under pressure in a stream through a heater to raise it to a cracking temperature, passing the oil from the heater into an enlarged chamber and holding the oil under superatmospheric pressure and at a cracking temperature for sufficient period of time to promote cracking reactions, subjecting the vapors from the chamber to reflux condensation and then final condensation and withdrawing concentrated residuum oil from said chamber under a surging action by intermittently at frequent intervals withdrawing the residue under sudden reduction of pressure to control the concentration of the oil in the chamber.

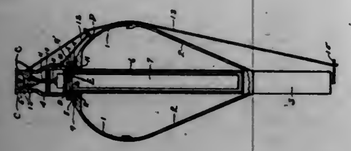
1,917,706. BIMETAL PISTON. LOUIS C. EVON, Detroit, Mich. Filed Apr. 18, 1932. Serial No. 605,906. 7 Claims. (Cl. 74—108.)



1. A bimetal piston having a light metal head and a skirt of a different material in locking engagement therewith, a pair of bosses integral with said head and depending therefrom, a pair of cylindrical wrist pin bushes in

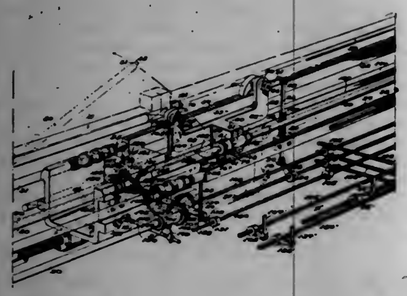
said bosses, elongated openings in said skirt the walls of which engage with said bushes laterally but adapted to permit axial movement of the bushes in said openings for the purpose described.

1,917,707. FISHLINE BOBBER. JOHN E. GAEDE and EDWIN M. SARGENT, Newton, Kans.; said Gaede assignor of one-eighth to Linda R. Janzen, Newton, Kans. Filed July 29, 1932. Serial No. 625,897. 4 Claims. (Cl. 43—17.)



1. In a floating bob for a fishing line, an air chamber having a cylindrical extension for the longer end thereof, a tubular container axially positioned in the air chamber and being attached thereto, a battery in the container, and means to retain the same therein, a receptacle for an electric lamp, a lamp and means to secure the same in the receptacle, an electrode positioned in the receptacle connecting the lamp and battery, a flexible switch carried by the receptacle and means to flex the same in contact with the shell.

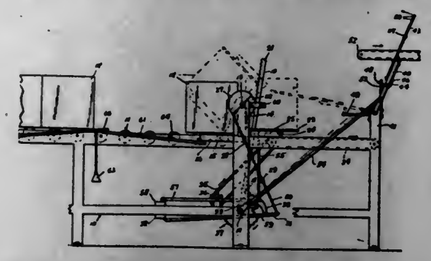
1,917,708. METHOD AND APPARATUS FOR DRAWING TUBES. JEAN V. GIESLER, Knoxville, Tenn., assignor to The Fulton Syphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed June 25, 1930. Serial No. 463,784. 48 Claims. (Cl. 205—8.)



1. The method of drawing tubes which includes intermittently exerting a drawing force on the tube to pull successive portions thereof between punch and die elements, aiding the passage of the tube between said elements during the successive exertions of drawing force by relatively moving said punch and die elements, and moving said tube relatively to said punch and die elements to burnish the tube between successive exertions of drawing force.

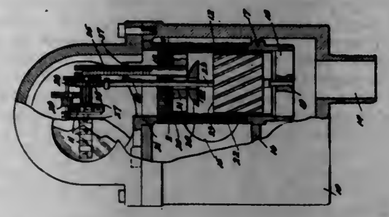
1,917,709. FRUIT DUMPER. CLIFFORD GRIFFITH and J. GILBERT GRIFFITH, Entiat, Wash. Filed Jan. 4, 1933. Serial No. 650,172. 5 Claims. (Cl. 214—1.1.)

1. In a device of the character described, a pair of supporting standards, a shaft rotatably supported between said standards, and a pair of angular box engaging arms connected at one end with said shaft for rotation therewith, means for rotating said shaft, a second pair of arms connected at one end with said shaft for rotation relative thereto, a lid carried by the second named arms for engaging the open side of the box carried by the first named arms, and means for rotating the second named pair of



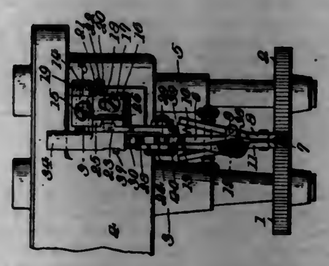
arms in reverse direction relative to the first named pair of arms for moving said lid into operative position to the box during tilting movement of the box.

1,917,710. FLOW METER. JOSEPH J. GROETKEN, Aurora, Ill. Filed Oct. 10, 1930. Serial No. 487,869. 2 Claims. (Cl. 73—37.)



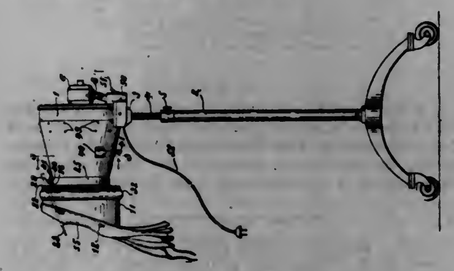
1. A flow meter comprising a casing having an inlet and an outlet and a horizontal partition wall, an imperforate sleeve mounted vertically in the partition wall and adapted to constitute a conduit through which the liquid passes, a rotor mounted at the lower end of said sleeve and adapted to be rotated upon the passage of liquid, a register, a transmitting mechanism between the rotor and the register, a regulator mounted at the upper end of said imperforate sleeve and adapted to be adjustably mounted in said casing toward and from the rotor to decrease or increase the amount of fluid flowing to said rotor, and means for adjusting the regulator manually.

1,917,711. FABRIC GUIDE FOR SEWING MACHINES. HANS HACKLÄNDER, Tinley Park, and FREDERICK F. ZEIER, Chicago, Ill., assignors to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 10, 1931. Serial No. 580,196. 7 Claims. (Cl. 112—20.)



1. The combination of a fabric guide for directing fabric sections to a stitching mechanism, means for supporting said guide whereby it may be moved to and from operative position, a latch for holding said guide in operative and in inoperative positions, and means movable with the guide and independently thereof for releasing the latch and for moving the guide when operated in either direction.

1,917,712. VAPORIZING MACHINE. WILLARD HAMLET, Baltimore, Md., assignor of one-half to John L. Whitehurst, Baltimore, Md. Filed June 28, 1930. Serial No. 464,674. 10 Claims. (Cl. 4—165.)



5. In a machine particularly adaptable to and having means therein for giving hot vapor treatments to either the facial or scalp portions of the head, having a rotatable hood thereon, a condensation trap on said hood, means for interlocking said hood to said machine, means for attaching a scalp or facial covering to said hood, and an air vent in said hood through which a breathing tube is inserted when the hood is in its rotated position for giving vapor treatments to facial portions of the head.

1,917,713. PREPARATION OF RESITOLS. RICHARD HESSEN, Bautzen, Germany. Filed Apr. 24, 1930, Serial No. 447,089, and in Germany Feb. 7, 1930. 4 Claims. (Cl. 260—4.)

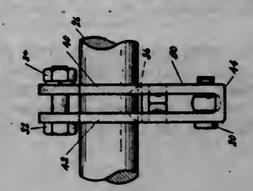
1. A process for preparing a plastic mixture containing resitols, comprising distributing in a thin layer a soluble and fusible initial phenol-aldehyde conversion product including resole, heating the layer to a temperature above the evaporating point of the undesired volatile constituents and above the hardening temperature of the resole for a time sufficient for elimination of the volatilized constituents and for the conversion of the resole to resitol, and discontinuing the heating prior to the conversion of all the resolt to resite.

1,917,714. PORTABLE POWER PLANT. HANS HOLZWARTH, Dusseldorf, Germany, assignor to Holswarth Gas Turbine Co., San Francisco, Calif., a Corporation of Delaware. Filed Jan. 30, 1931, Serial No. 512,845, and in Germany Feb. 5, 1930. 4 Claims. (Cl. 105—62.)



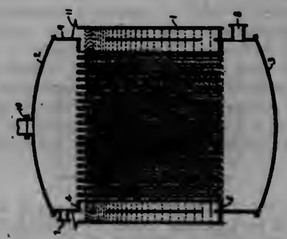
1. A portable power plant for a locomotive provided with a tender, said power plant comprising an explosion turbine, a compressor driven by said turbine, means for generating steam with the aid of the waste heat of the turbine, and expansion engines mounted independently of said turbine and driven by the exhaust gases of said turbine and by said steam, said expansion engines delivering the total available output of the plant, certain of said engines being geared to an axle of said tender to drive the latter positively.

1,917,715. SHEET METAL LEVER. WARREN T. HUNT, Toledo, Ohio, assignor to The Willys Overland Co., Toledo, Ohio, a Corporation of Ohio. Filed Jan. 18, 1930. Serial No. 421,797. 3 Claims. (Cl. 74—33.)



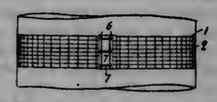
1. A lever formed of sheet metal blank having aligned shaft receiving openings and sides normally parallel, a web connecting said sides, portions of the sides adjacent the shaft receiving holes being unsupported; means for forcing the sides out of parallelism adjacent the openings, portions of the side walls of the lever being struck up laterally, said struck up portions adapted for engagement to limit the movement of the sides; and a second pair of substantially aligned openings adjacent the web portion adapted to receive connecting means.

1,917,716. CATALYTIC CONVERTERS. ALPHONS O. JAROSS, Mount Lebanon, Pa., assignor, by mesne assignments, to The Selden Research & Engineering Corporation, Pittsburgh, Pa., a Corporation of Delaware. Filed May 31, 1930. Serial No. 458,010. 6 Claims. (Cl. 23—288.)



1. A catalytic rigid converter comprising a converter shell, a lower tubesheet set welding into said converter shell, catalyst tubes supporting an upper tubesheet, a superstructure above said upper tubesheet and provided with a gas inlet, and flexible means enclosing the space between said superstructure and said converter shell.

1,917,717. REENFORCEMENT FOR ROUND REACTION TOWERS FOR THE MANUFACTURE OF SULPHURIC ACID. CARL LUDVIG EMIL JENSEN, ALDO UTKOV, and KAI WARMING, Copenhagen, Denmark. Filed Apr. 21, 1931, Serial No. 531,838, and in Denmark Apr. 24, 1930. 4 Claims. (Cl. 23—288.)

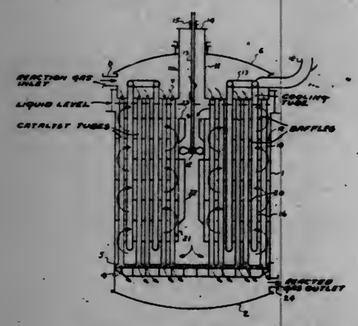


1. Reenforcing means for reaction towers for manufacturing sulphuric acid of the type having an inner tile wall and an outer leaden mantle in contact therewith, comprising a plurality of closely spaced metal bands, each of the bands being provided with a turn-buckle adapted to be tightened to press each of the bands individually against the leaden mantle to thereby press the latter against the said tile wall along horizontal lines.

2. Reenforcing means for reaction towers of the type having an inner tile wall and an outer leaden mantle in

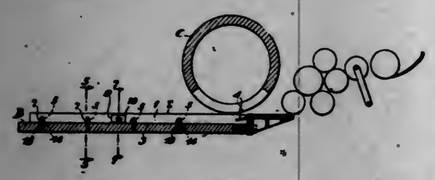
contact therewith, comprising a unitary belt of wire netting and means for tightening the said belt into contact with the leaden mantle to thereby press the latter into intimate contact with the said inner tile wall.

1,917,718. PROCESS AND APPARATUS FOR EFFECTING ORGANIC OXIDATIONS. JOSEPH E. JEWETT, Mount Lebanon, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed May 31, 1930. Serii No. 458,416. 10 Claims. (Cl. 23—288.)



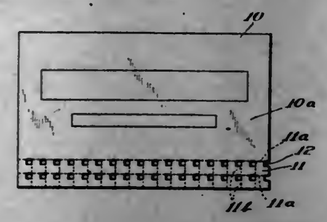
1. A method of carrying out exothermic catalytic vapor phase reaction which comprises passing the reaction mixture at reaction temperatures through a plurality of substantially vertical catalyst containing compartments located in a converter shell and causing repeated passage of a bath liquid transversely across a plurality of succeeding portions of said catalyst containing compartments and through a plurality of temperature regulating zones, the succeeding portions of the catalyst compartments being progressively in a direction opposite that of the direction of flow of the reaction mixture through the catalyst.

1,917,719. TYPE BED BEARER. CHESTER B. JOHNSON, Hasbrouck Heights, and Calvin H. Bryant, Jersey City, N. J., assignors to Russell Supply Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 12, 1931. Serial No. 562,444. 6 Claims. (Cl. 101—250.)



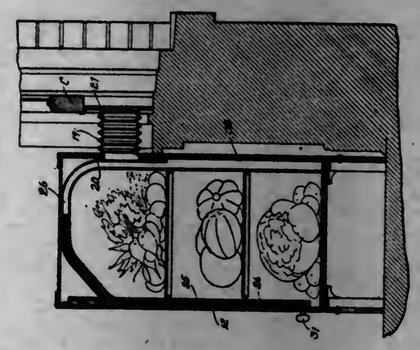
1. In a printing press including an impression cylinder and a cooperating relatively reciprocable type bed, a bearer bar disposed upon the bed and having sockets spaced therealong in its under face and terminating short of the bearing face of the bar, and threaded apertures in a lateral face of the bar opening into said sockets; studs having threaded shanks screwed into the type bed and projecting heads snugly fitting in said sockets and each having a circumferential groove and a shoulder positively limiting the screwing of the stud shank into the bed to locate said groove in a definite position spaced from the bed, the walls of the sockets surrounding said studs to hold the bar against lateral displacement in any direction; and setscrews screwed into said threaded apertures and having tapered inner ends tangentially engaging the grooved stud heads and cooperating with the grooves to hold the bar close against the bed.

1,917,720. RAILROAD TICKET. ALFRED R. JORGENSON, Chicago, and RALPH O. MOODY, La Grange, Ill. Filed Nov. 21, 1931. Serial No. 576,603. 2 Claims. (Cl. 281—43.)



1. A ticket having a plurality of sections marked thereon and adapted to be severed from the ticket by a punch, each of said sections on the ticket having an aperture therethrough for receiving a portion of the punch when said entire section is to be severed from the ticket.

1,917,721. PROVISION CABINET. JOSEPH KAMIL, New York, N. Y. Filed Aug. 4, 1931. Serial No. 555,126. 2 Claims. (Cl. 98—51.)

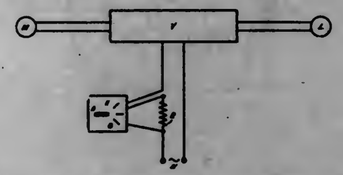


1. A window refrigerator cabinet comprising a rectangular casing open at its front and having an opening in the rear wall thereof, tracks provided on the side walls of said casing and extending rearwardly beneath the top wall and downwardly adjacent the rear wall below the opening therein, and a flexible closure member slidable in said tracks which when moved down to a closed position, closes the open front of said casing and is clear of the opening in the rear wall, and when moved upward to open position closes the opening in the rear wall.

1,917,722. AMPLIFIER POWER SUPPLY. IRMFRIED KIRSTAEDTER, Berlin, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany, a Corporation of Germany. Filed July 18, 1930, Serial No. 468,806, and in Germany June 17, 1929. 2 Claims. (Cl. 250—27.)

1. In an amplifier circuit which includes at least one electron discharge relay provided with a cathode of the type having an inherent delay characteristic of such duration as to make appreciable the length of time required for the relay to assume normal operation after the application of energising potentials thereto, a cathode energising circuit including a source of current for supplying electrical energy at a voltage best adapted for normal operation of the electron relay when normal operation thereof is desired, means adapted to be connected to the cathode energising circuit for reducing the voltage of the energy supplied to the cathode energising circuit from said source to a value

insufficient for normal operation of the relay device but sufficient to maintain the cathode at such a state of energization that it will assume normal operation characteristics substantially contemporaneous with the application of normal voltage values to the circuit, said means comprising a fixed resistance element adapted to be placed in and out of the cathode energising circuit by means comprising a switch having two sets of contacts and a contact operating element, said contact operating element being

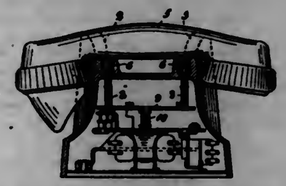


adapted to close either set of contacts, means for connecting the cathode energising circuit directly across the source when one of said sets of contacts is closed by said element so as to impress the normal operating voltage across said circuit, and means for connecting the source and said cathode energising circuit through the resistance device when the other set of contacts is closed by said element so as to impress the reduced voltage across the circuit.

1,917,723. PRODUCTION OF ALLOYS CAPABLE OF BEING FORGED AND HARDENED. WERNER KÖSTER, Dortmund, Germany, assignor to the Firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Filed Mar. 31, 1931, Serial No. 526,777, and in Germany Apr. 8, 1930. 4 Claims. (Cl. 148—31.)

1. A substantially carbon free tool steel alloy containing 5 to 35% of tungsten and in addition 5 to 50% of cobalt, the balance consisting substantially of iron, said alloy having been hardened by precipitation hardening by heating the alloy between 900° C. and the melting point, rapidly cooling and heating between 400° and 800° C.

1,917,724. TELEPHONE SET. ALBERT KVAAL, Smestad, near Oslo, Norway, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Filed May 7, 1932, Serial No. 609,888, and in Germany Apr. 4, 1931. 4 Claims. (Cl. 179—100.)

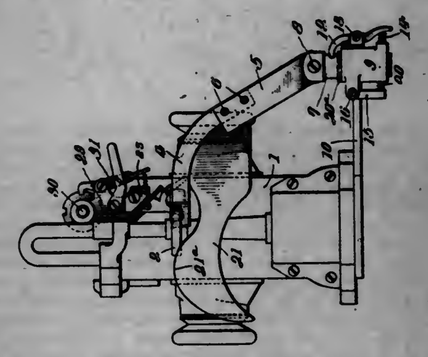


1. A telephone desk set comprising a casing, a hand telephone having a receiver box and a microphone box at the ends of a handle, a hand telephone support on the top of the casing, and extensions of the side walls of the casing located close behind and forming stops for the receiver box and the microphone box respectively to prevent swinging movements of the hand telephone.

1,917,725. CONDENSATION OF SULPHUR ARSENIC COMPOUNDS. NILS ERIK LENANDER, Lokken Verk, Norway, assignor to Patentaktiebolaget Gröndal-Ramen, Stockholm, Sweden. Filed July 26, 1930, Serial No. 471,098, and in Sweden Apr. 30, 1930. 6 Claims. (Cl. 23—186.)

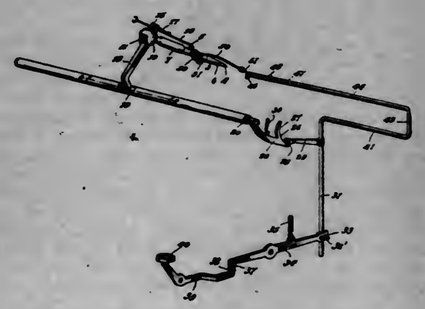
1. In the process of condensing sulphur and arsenic vapors, the step or steps of admixing with sulphur and arsenic vapors such a quantity of an indifferent diluting gas that no noteworthy condensation of the sulphur and arsenic vapors takes place at a temperature above the melting temperature of the condensed arsenic sulphides and cooling the vapors to condense the arsenic sulphide in the form of a powder.

1,917,726. BLIND STITCH SEWING MACHINE. KARL MAIER, Stuttgart, Germany, assignor to Union Special Maschinenfabrik, G. m. b. H., Stuttgart, Germany. Filed Oct. 30, 1929, Serial No. 403,475, and in Germany Nov. 9, 1928. 12 Claims. (Cl. 112—20.)



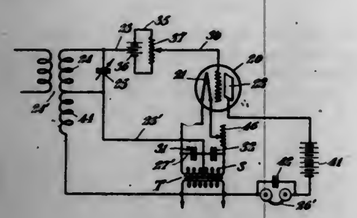
1. A sewing machine including in combination a needle, means for independently supporting two portions of fabric each of which is folded back upon itself and for directing said folded portions to the needle, said supporting means including separate fabric supporting devices positioned so that the needle passes into, all the way through and out of one folded portion and into and out of the other folded portion so that the needle threads formed therein are concealed from view on the right face of the fabric.

1,917,727. MARKER ATTACHMENT FOR TYPEWRITERS. CORNELIUS A. McGLENNON, East Newark, N. J.; Harriet S. McGlennon executrix of said Cornelius A. McGlennon, deceased. Filed July 2, 1930. Serial No. 465,431. 7 Claims. (Cl. 197—118.)



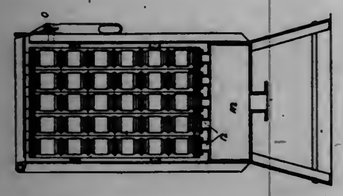
6. An attachment for typewriters provided with a carriage and a platen, said attachment comprising a rock shaft mounted in front of the typewriter carriage, a marker carried by said shaft to be moved toward and from the platen, a vertical reciprocable rod, a presser arm on said rod, a crank arm on said shaft engaged with said presser arm, and an extension at the upper end of said vertical rod to bear upon the carriage escapement release lever whereby to release the carriage when the marger is moved to the platen.

1,917,728. DISCHARGE TUBE CATHODE ENERGIZING. BENJAMIN F. MIESSNER, Short Hills, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Mar. 30, 1928. Serial No. 265,922. 4 Claims. (Cl. 250—27.)



1. In a system for receiving high frequency electrical signals modulated at audible frequency including means for amplifying said signals, means for detecting said signals including a three electrode vacuum tube and a device responsive to audible frequency current components associated with the output circuit of said tube, means for energizing the filament of said tube with alternating current energy, means for connecting a high frequency input circuit to the grid electrode and filament system of said tube so as to be substantially independent of the alternating current potentials employed for energizing said filament, and independent means for energizing the grid electrode of said tube for operation as a rectifier, whereby disturbing hum production in said audible frequency responsive device is materially avoided.

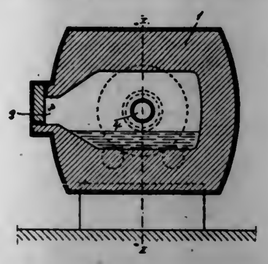
1,917,729. DEVICE FOR THE TREATMENT OF ARTIFICIAL SILK. FRITZ PASCHKE, Cologne, and PETER FRANZEN, Cologne-Nippes, Germany, assignors to Firm Glanzstoff-Courtaulds G. m. b. H., Cologne-Merheim, Germany. Filed Jan. 2, 1931, Serial No. 506,188, and in Germany Jan. 24, 1930. 3 Claims. (Cl. 18—8.)



1. In a device for treating artificial silk, a washing device comprising a distributing box for the liquid, a frame comprising a loose and a fixed side member situated opposite to each other, bars between said side members for the reception of the bobbins and of interposed packing rings, means to lock said loose members in a raised position, holes formed in said fixed side members for the reception of said bars, the treating liquid passing through said holes on its way to the bobbins, and pipe sockets on the distributing box in contact with said holes.

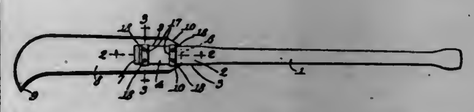
1,917,730. ELECTRIC FURNACE. ADAM HELMER PEHRSON, Norrnas, Oscar Fredriksborg, Sweden. Filed Apr. 24, 1931, Serial No. 532,412, and in Sweden Oct. 30, 1928. 4 Claims. (Cl. 13—10.)

1. Electric radiation furnace for carrying out metallurgical and chemical processes including in combination, a treatment chamber having walls built and lined with a refractory material to form a continuous hearth, electrodes for heating the charge, means providing optionally for continuously or intermittently tilting or oscillating the furnace through an angle of 180° in order to interchange the roof and hearth and provide alterations in the shape



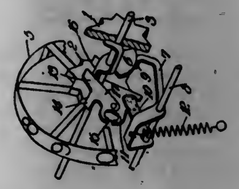
of the charge, said treatment chamber being of elongated section disposed at right angles to the axis of tilt or oscillation.

1,917,731. BRUSH KILLER. LORENZO DOW PENDER, Raleigh, N. C., assignor to L. Dow Pender, Jr., Tarboro, N. C. Filed Nov. 4, 1932. Serial No. 641,292. 1 Claim. (Cl. 30—9.)



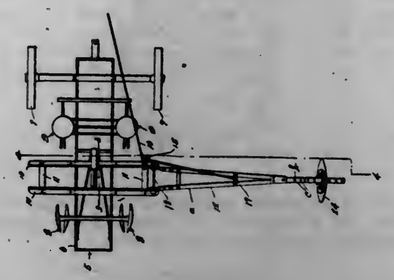
A tool of the class described including a handle having an angular end portion with flat faces, there being a slot extending into said end portion parallel with and equidistant from opposed faces of said end portion, a thin cutting blade having a butt end fitted snugly into the slot and against the end wall thereof, said blade having its edges disposed out of line with the handle, opposed straps snugly embracing and slotted angular portion of the handle and extending close to the blade, and spaced pairs of tie devices extending through the straps, handle and blade at points between the longitudinal center and the sides of the slot, thereby to provide a relatively broad imperforate middle portion of the handle extending longitudinally between said devices.

1,917,732. CALCULATING OR ADDING MACHINE. GUY BAZELEY PETTER, Yeovil, England, assignor to Petters Limited, Yeovil, England, a British Company. Filed July 6, 1931, Serial No. 549,026, and in Great Britain Aug. 1, 1930. 10 Claims. (Cl. 235—134.)



1. A calculating or adding machine of the type referred to having transfer mechanism comprising a cam rotated from one bank or column, a transfer element actuated by said cam and associated with a pinion in an adjacent column of higher order and normally lying in the path of the pinion teeth and means for moving said transfer element out of the path of the teeth of its associated pinion for a predetermined period until the moment at which transfer is due to take place.

1,917,733. LISTER MARKING ATTACHMENT. EMIL PSIKAL, HENRY PSIKAL, and WILLIAM PSIKAL, Dorchester, Nebr. Filed July 8, 1932. Serial No. 621,482. 1 Claim. (Cl. 97—230.)

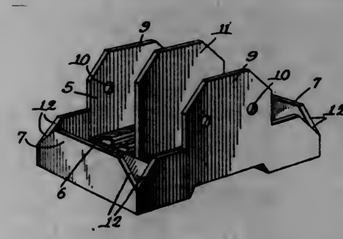


In combination, a lister including a chassis frame, a cross frame projecting at its end portion beyond the opposite sides of the chassis frame, a boom adapted for interchangeable connection with each end of the cross frame, a cutting disk at the outer end of the boom, means for raising the boom, and a cushioning rest mounted over the cross frame and intermediate the ends thereof for supporting the boom when in retracted position from either end of the cross frame.

1,917,734. EXTRACTING OIL FROM SEEDS. BRUNO REWALD, Hamburg, Germany. Filed Oct. 24, 1929, Serial No. 402,802, and in Germany early in 1929. 7 Claims. (Cl. 87—6.)

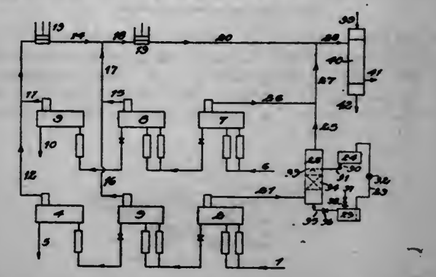
1. In the extraction of oil and lecithin from oil-bearing seeds rich in lecithin, the herein described improvement which comprises subjecting the untreated seeds, in a comminuted condition to extraction with a composite solvent containing an aromatic hydrocarbon as its largest constituent together with about one to ten per cent of a lower alcohol, and thereafter drying the seed material in a flowing current of gas at not above 70° C.

1,917,735. SOAP HOLDER. LUANNA S. ROBERTS, Torrance, Calif. Filed Aug. 19, 1932. Serial No. 629,549. 2 Claims. (Cl. 45—28.)



1. A soap supporting tray comprising a body portion including a bottom, the ends of the bottom extending downwardly and laterally providing compartments at the ends of the body portion, upstanding flanges formed at the ends of the downwardly and laterally extended portion, the upper edges of the flanges terminating at points appreciable distances above the bottom providing stops to prevent soap from being slid through the tray, and upstanding flanges on the body portion, providing compartments therebetween.

1,917,736. PURIFICATION OF SO_2 RECOVERED FROM REFINING HYDROCARBONS WITH SO_2. ERICH SABONBARTH, Long Island City, N. Y., assignor to Edeleanu Gesellschaft, m. b. H., a Corporation of Germany. Filed Apr. 28, 1932, Serial No. 608,109, and in Germany May 1, 1931. 12 Claims. (Cl. 196—37.)



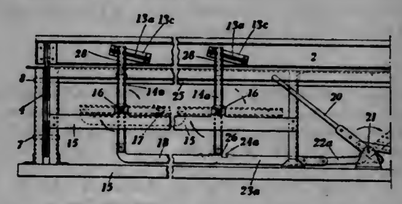
1. An improvement in the process for continuous treatment of moisture containing liquid hydrocarbons with liquid-SO_2, wherein a closed treatment cycle is maintained by separately subjecting the moisture containing raffinate and extract solutions from the mixer to multi-stage evaporation for recovery of the SO_2 for reuse in the mixer, which consists in conducting the "first stage" extract-evaporation at condenser pressure, drying only SO_2 evolved from the extract condenser pressure stage of evaporation without returning the removed water to the extract, and adding said dried SO_2 to the undried SO_2 evolved from the other stages, thereby preventing the accumulation of a harmful water concentration in the treatment cycle.

1,917,737. COMPOSITE RUBBER SOLE AND METHOD OF MAKING SAME. WILLIAM F. SCHACHT, Huntington, Ind. Filed July 12, 1932. Serial No. 622,186. 8 Claims. (Cl. 18—59.)



1. The method of making composite unlaminated rubber soles consisting in milling a quickly vulcanizable rubber composition containing sulphur and forming said composition into a sheet; milling a slowly vulcanizable rubber composition containing a relatively small amount of sulphur; calendering a facing of the slowly vulcanizing composition onto the quick vulcanizing sheet; cutting the composite sheet into sole blanks; and vulcanizing the blanks under heat and pressure to fully cure the quick vulcanizing composition and partially set the slow vulcanizing composition.

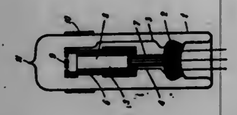
1,917,738. APPARATUS FOR MOLDING CONCRETE AND LIKE PLASTIC SUBSTANCES. FRIEDRICH SCHLAGINTWEIT, Baden-Baden, Germany. Filed May 10, 1932, Serial No. 610,431, and in Great Britain July 7, 1931. 11 Claims. (Cl. 25—41.)



2. Apparatus for molding concrete articles of the character designated comprising in combination a mold hav-

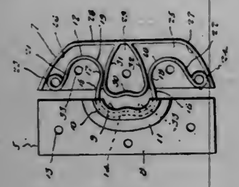
ing side walls movable in relation to the bottom, means for adjusting said cam devices transversely in relation to the side walls to provide for beams of varying width, levers engaging said cam devices, said levers also supporting the side walls in correct vertical relation to the bottom of the mold.

1,917,739. ELECTRIC DISCHARGE DEVICE. FRITZ SCHRÖTER, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Mar. 13, 1931, Serial No. 522,269, and in Germany Mar. 7, 1930. 5 Claims. (Cl. 250—27.5.)



1. An electrical discharge device comprising a sealed cylindrical envelope containing a rarified gas, a hollow cylindrical cathode mounted in and concentric with said envelope, a tubular insulator on the outer walls of said cathode, an auxiliary anode mounted on said insulator adjacent the open end of said cathode, a main anode mounted on said insulator remote from the open end of said cathode, and a control electrode surrounding said insulator to produce in the annular space between said tubular insulator and the walls of said envelope an electro-static field to effect an electron stream flowing between said cathode and said main anode thru said annular space.

1,917,740. DOOR STABILIZING CATCH. CARL EMIL STRAND, East Cleveland, Ohio. Filed Jan. 25, 1933. Serial No. 653,487. 2 Claims. (Cl. 16—85.)



1. A catch of the class described comprising a support, a substantially U-shaped spring having its bight connected with the support, with its limbs convergently arranged, each limb being bent outwardly into U-shape, a keeper member having a part thereon of substantially wedge shape with its base toward the spring supporting member, with its sides engaged by the limbs of the spring and means on the keeper member for engaging the extremities of the U-shaped parts of the limbs for placing said U-shaped parts under tension whereby the portions of the limbs which engage the wedge member are pressed against the sides of said wedge member.

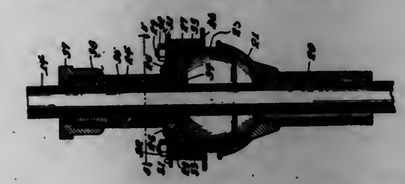
1,917,741. PACKING AND DISPLAY CONTAINER. ARNOLD J. TANNER, North Haven, Conn., assignor to Einson-Freeman Co., Inc., a Corporation of New York. Filed May 2, 1929. Serial No. 359,734. 6 Claims. (Cl. 206—44.)

1. A display box of the type having a pair of box sections hinged together, said sections standing one behind the other when the box is arranged for displaying and end to end when the box is arranged for storage characterized by means for uniting said sections, said means comprising a tongue carried by the front wall of the rear box section, said tongue being engaged in a slot located in



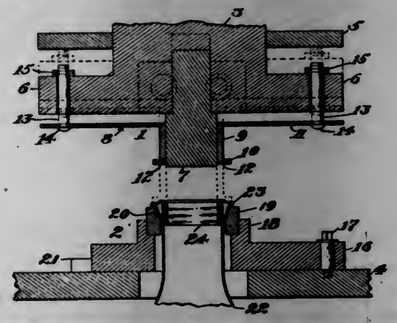
the front box section at substantially the hinge line between the sections and said tongue having projections operating to retain said tongue in place.

1,917,742. FLEXIBLE JOINT PACKING BOX. WILLIAM B. TINSLEY, Pampa, Tex. Filed Mar. 30, 1931. Serial No. 526,382. 1 Claim. (Cl. 285—94.)



A flexible joint of the character described comprising a pair of semi-spherical interfitted members having centered tubular pipe extensions, an external shoulder formed on one of the members, a semi-circular cap telescoped over the shouldered member and having a circular angular lip concentrically disposed with respect to the pipe extension of said member and resting against the shoulder, bolt members joining the cap with the other members, and expansion springs acting with the bolts to compress the interfitted members and tensioning the cap relative thereto.

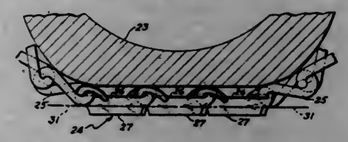
1,917,743. DIE FOR MAKING ICE BAGS, ETC. ALBERT D. WALKER, Middleboro, Mass. Filed July 1, 1932. Serial No. 620,555. 4 Claims. (Cl. 153—1.)



1. In a mechanism of the class described, the combination of a head provided with a horizontal extension, a stripper bar a considerable distance above said extension and on said head, a punch in the center of said head, a stripper slidably mounted on said punch, said stripper comprising a sleeve-like body provided at its lower end with a horizontal annular flange, said flange provided with an annular groove in its under face, said sleeve-like body

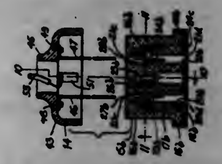
provided at its inner or upper end with a plate-like top, vertical bolts having said plate-like top on their lower ends, said bolts loosely extending through said horizontal extension, nuts on the upper ends of said bolts between said horizontal extension and said stripper bar, said bolts adapted to have their inner ends strike against said stripper bar for causing a bag to be knocked off said punch, and a bag-carrying auxiliary unit positioned under said head and punch and adapted to cooperate therewith, substantially as shown and described.

1,917,744. TREAD MEMBER FOR TIRE CHAINS. HARRY D. WEED, Southport, Conn. Filed Sept. 8, 1932. Serial No. 632,093. 19 Claims. (Cl. 152—14.)



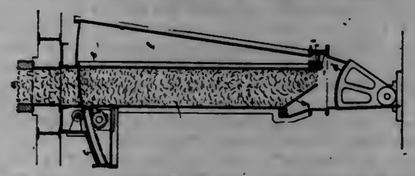
1. A tire chain cross member comprising a plurality of connected links each comprising a single central road engaging portion with reduced end portions at the upper edge thereof bent into a loop connected with a similar loop of the adjacent link.

1,917,745. ELECTRIC CONNECTER. FRANK L. WEISS, New York, N. Y. Filed May 29, 1931. Serial No. 540,841. 10 Claims. (Cl. 200—115.5.)



1. In a separable electric connecter embodying a plug adapted to be inserted into an electric socket, a member intermediate the said plug and socket having a body, an insert fitted within the body, having a pair of slots, a pair of contact arms fastened to the body and extending therefrom for insertion into a socket, a pair of contact terminals within the body and extending into the said pair of slots, for suitable engagement with contact arms from a plug, and fuse strips connecting the said contact arms with the said contact terminals, the said insert having cut out portions for observing the condition of the said fuses.

1,917,746. VERTICAL GAS RETORT AND COKE EXTRACTOR THEREFOR. ERNEST WEST, Manchester, England, assignor to West's Gas Improvement Company, Limited, Manchester, England, a British Company. Filed Jan. 6, 1932, Serial No. 585,066, and in Great Britain Feb. 5, 1931. 3 Claims. (Cl. 214—18.)



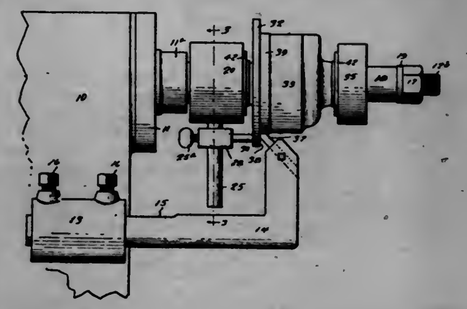
1. The combination with a vertical carbonization retort, of an unobstructed coke chamber fixed beneath said retort to form a continuous chamber therewith and having an opening at its lower end, a rear inclined wall of said coke chamber, a false back tiltable towards said inclined wall to facilitate coke discharge from said coke chamber, an enclosed shutter for cutting off said retort from said coke chamber, and a door for sealing said opening at the lower end of said coke chamber.

1,917,747. ADJUSTABLE BRUSH HOLDER. FRANK WOZAR, New York, N. Y. Filed Sept. 14, 1932. Serial No. 633,127. 1 Claim. (Cl. 306—1.)



A holder including a body, a pair of angularly diverging arms extending from said body, hook shaped portions at the outer ends of said arms and to overlap the back of a brush, a plate shiftably connected to said body and overlapping the opposite brush edge and an angular extension forming a part of said plate adjacent the outer edge thereof and slidably bearing against the inner face of said body.

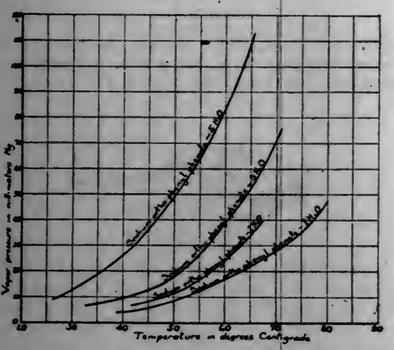
1,917,748. LATHE ATTACHMENT. JOHN Y. BLAZEK, Cleveland, Ohio, assignor to Lempco Products, Inc., Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 5, 1931. Serial No. 579,242. 4 Claims. (Cl. 82—1.)



1. In a lathe, a supporting bearing, a spindle rotatable with respect thereto and having a portion extending therefrom, said portion being unsupported beyond said bearing, a pair of spaced work engaging members on said spindle adapted to engage the bearings of a differential housing or similar external-bearing-equipped member having an opening which will receive said spindle and permit said bearings to assume a coaxial relation thereto, and a tool holder adapted to holding a tool in cutting relation to said differential housing.

4. In a lathe for truing differential housings which have central axial openings and external end bearings substantially coaxial with said openings, a supporting bearing, a spindle of a diameter slightly less than that of said openings rotatable with respect to said bearing and having a portion extending therefrom, said portion being unsupported beyond said bearing, a pair of spaced work engaging members on said spindle adapted to engage said external bearings of said differential housing, said members being provided with frusto-conical concavities adapted to engage said bearings, a tool holder for holding a tool in cutting relation to said differential housing, and means for causing such differential housing to rotate with respect to said cutting tool.

1,917,749. SODIUM ORTHO-PHENYL PHENATE AND METHOD OF PREPARING SAME. EDGAR C. BRITTON, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Oct. 30, 1930. Serial No. 492,130. 5 Claims. (Cl. 260—154.)



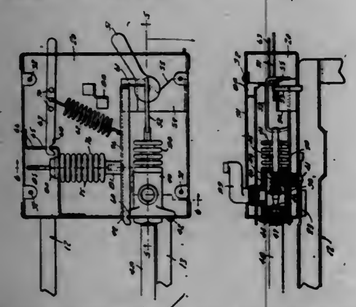
1. As a new product, crystalline sodium ortho-phenyl phenate.

1,917,750. PROCESS AND APPARATUS FOR REMOVING PROTUBERANCES FROM METAL. LORN CAMPBELL, Jr., Lakewood, Ohio. Filed Mar. 1, 1930. Serial No. 432,360. 1 Claim. (Cl. 148—9.)



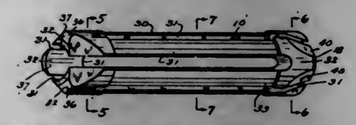
The process of oxidizing an iron or steel projection extending from a metal plate which consists in first heating the said projection to the desired temperature, and then subjecting the projection to the action of a jet of oxygen delivered upon the central portion thereof and at substantially right angles to the plane of said plate and to the action of a plurality of jets of oxygen arranged radially outside such central jet and delivered upon the said projection within the periphery thereof, the oxygen being delivered under low pressure through such jets.

1,917,751. GAS BURINNG APPLIANCE FOR ABSORPTION REFRIGERATORS. LEE S. CHADWICK, Shaker Heights Village, MARC RESEK, Cleveland Heights, and WILBUR G. MIDNIGHT, Cleveland, Ohio, assignors to Perfection Stove Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 31, 1930. Serial No. 457,881. 23 Claims. (Cl. 62—5.)



1. A gas burning appliance for absorption refrigerators comprising a burner, a valve for controlling the delivery of gas to the burner, a spring tending to close the valve, means shiftable in one direction transversely of the line of movement of the valve for holding the valve open against the tension of the spring and shiftable through and beyond said line in the opposite direction to permit said spring to close the valve, and thermostatic mechanism arranged to be subjected to the temperature of the generator of the refrigerator for shifting said means in said opposite direction.

1,917,752. COLLET. EDWIN L. CONNELL, Towson, Md., assignor to Van Dorn Electric Tool Company, Towson, Md., a Corporation of Ohio. Filed July 14, 1931. Serial No. 550,670. 3 Claims. (Cl. 279—53.)



1. A collet for use with opposed relatively movable sockets having substantially conical internal seats, comprising a tubular members having slots extending longitudinally therethrough from opposite ends and extending to a point a fixed distance from the other end of the member, said member having the ends thereof bevelled to correspond with the seat, and wherein the beveled portions are cut away on the outer surface of the collet adjacent the open ends of the slots, to reduce the width of the seat contact area of the collet for all diameters of work.

1,917,753. COVER FOR LEAF SPRINGS. GEORGE W. CRABTREE, Cleveland Heights, Ohio. Filed Jan. 27, 1930. Serial No. 428,614. 15 Claims. (Cl. 267—37.)



1. A vehicle spring cover, comprising a longitudinally-divided tubular body adapted to encase a laminated spring with freedom for the spring to flex therein, the opposite ends of said tubular body having rotatable sealing elements socketed therein and engaged with the spring.

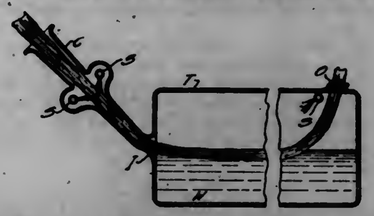
1,917,754. INSECTICIDE. ELMER RALPH DE ONG, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a Corporation of Delaware. Filed Aug. 23, 1929. Serial No. 388,038. 8 Claims. (Cl. 167—28.)

1. A new insecticidal and/or insect-repelling composition of matter containing as its active ingredient a substantial quantity of Edeleanu extract.

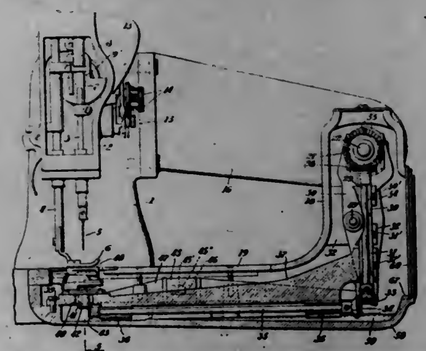
1,917,755. METHOD OF MAKING RUBBER-FIBER ARTICLES. BRADLEY DEWEY, Cambridge, Mass., assignor to Dewey and Almy Chemical Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Aug. 6, 1932, Serial No. 627,737, and in Great Britain May 30, 1931. 15 Claims. (Cl. 91—68.)

7. Method of depositing latex rubber in a permeable fibrous structure comprising (1) dispersing ammoniated zinc chloride in latex, (2) filling interfiber spaces of a permeable fibrous structure with the composite of latex and ammoniated zinc chloride, (3) raising the temperature throughout the body of said saturated fibrous structure to activate the ammoniated zinc chloride in the latex to coagulate said latex to form throughout said structure a continuous coherent rubber network permeated by the watery phase, and (4) removing water therefrom.

14. Method of depositing latex rubber in a permeable fibrous structure comprising (1) dispersing a bi-valent or tri-valent metal salt in latex containing a heat-coagulable protective, (2) filling interfiber spaces of a permeable fibrous structure with the composite of latex, bi-valent or tri-valent metal salt, and heat-coagulable protective, (3) raising the temperature throughout the body of said saturated fibrous structure to coagulate the protective and activate the bi-valent or tri-valent metal salt in the latex to coagulate said latex to form throughout said structure a continuous coherent rubber network permeated by the watery phase, and (4) removing water therefrom by drying.



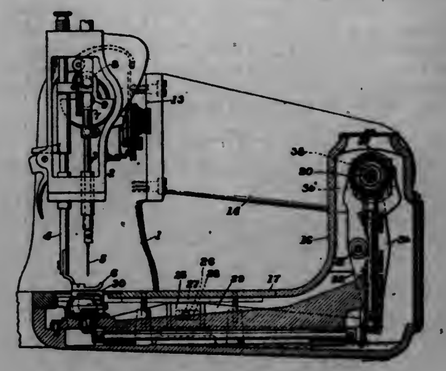
1,917,756. FEED-OFF-ARM SEWING MACHINE. GEORGE M. EAMES, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Nov. 23, 1929. Serial No. 409,224. 10 Claims. (Cl. 112—258.)



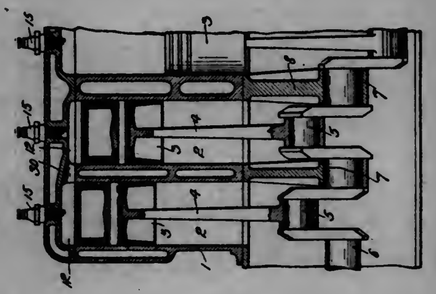
1. A sewing machine having, a frame including a gooseneck, an upper forwardly projecting arm joined to the gooseneck, a laterally extending arm carried by the forwardly projecting arm, a depending arm carried by the laterally extending arm, a work-supporting arm carried by the depending arm, a main-shaft journaled in said gooseneck, a counter-shaft journaled in said laterally extending arm and connected to be driven by said main-shaft, spaced vertical shafts journaled in said vertically depending member and geared to said counter-shaft, spaced horizontal shafts journaled in the work-supporting arm and geared each to its respective one of said vertical shafts, spaced loop-takers connected to be driven each by its respective one of said horizontal shafts, and feeding mechanism including a feed-bar disposed within and lengthwise of the work-supporting arm between said horizontal loop-taker actuating shafts.

1,917,757. FEEDING MECHANISM FOR SEWING MACHINES. GEORGE M. EAMES, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Original application filed Nov. 23, 1929, Serial No. 409,224. Divided and this application filed Aug. 1, 1931. Serial No. 554,403. 3 Claims. (Cl. 112—215.)

1. Feeding mechanism for sewing machines having a feed-bar fulcrumed between its ends for rocking and bodily endwise movements, a feed-lever fulcrumed to rock on a fixed axis and disposed substantially normal to said feed-bar, a pin-and-slot sliding connection between said feed-bar and feed-lever, an actuating shaft, an adjustable eccentric on said shaft connected to actuate said feed-lever, a feed-lift eccentric on said shaft, and a pitman connection between said feed-bar and said feed-lift eccentric.



1,917,758. INTERNAL COMBUSTION ENGINE. CAMILLE HENRI FUCHS, New Rochelle, N. Y. Filed June 25, 1929. Serial No. 373,618. 2 Claims. (Cl. 123—53.)

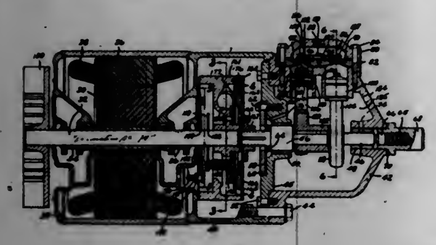


2. An internal combustion engine of the four stroke cycle type comprising a cylinder block having a plurality of equi-diameter cylinder bores, a head block portion formed at its under side with combustion chambers each of which is mutual to and unites a pair of cylinder bores and formed with horizontal upper chamber walls overlying substantially the full cross-sectional area of the bores, a crank shaft suitably journalled, connecting rods from the pistons to the crank shaft, said crank shaft having its cranks of equal throw and operatively related to each combustion chamber in angular relation of not more than substantially thirty degrees, said cylinder block being formed with intake and exhaust ports communicating with the combustion chambers, valves operative to open and close the intake, and exhaust ports, means for operating the valves for four stroke cycle operation and means for igniting the explosive charge within the combustion chambers at the interval of highest compression and with the retarded cranks at substantially their uppermost position whereby the associated cranks will be angularly advanced substantially to a position out of toggle relation and said horizontal chamber walls being spaced to have substantially the same spaced relation to the upper surfaces of the pistons at the combustion interval.

1,917,759. CASTING READILY OXIDIZABLE METAL. JOHN A. GANN, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Mar. 3, 1932. Serial No. 596,573. 13 Claims. (Cl. 22—188.)

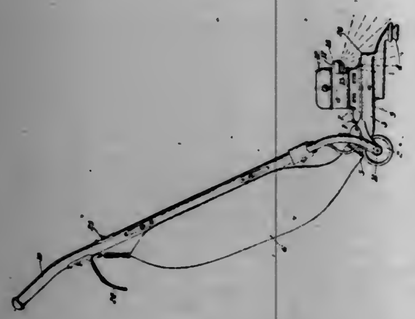
1. The method of producing castings of readily oxidizable metals such as magnesium or an alloy thereof which comprises interspersing through a molding composition at least one of the compounds borofluohydric acid, ammonium borofluoride, forming the so treated composition into a mold, and casting the molten metal therein.

1,917,760. PUMP FOR REFRIGERATING APPARATUS. CARL F. GEIGER, Dayton, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Dec. 31, 1929, Serial No. 417,799. Renewed Nov. 23, 1932. 4 Claims. (Cl. 230—58.)



1. A motor-compressor unit comprising a motor having a shaft, a starting winding and a running winding for said motor, a compressor having a drive shaft in substantial alignment with said motor shaft, a clutch for operatively connecting said shafts, and means associated with said clutch for disconnecting said starting winding when the speed of the motor attains a predetermined high value, and means compensating for any slight irregularity in the alignment of said shafts.

1,917,761. ELECTRICALLY LIGHTED FLOOR CLEANER. HERBERT J. GOOSMAN, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Dec. 10, 1931. Serial No. 580,064. 8 Claims. (Cl. 240—2.)

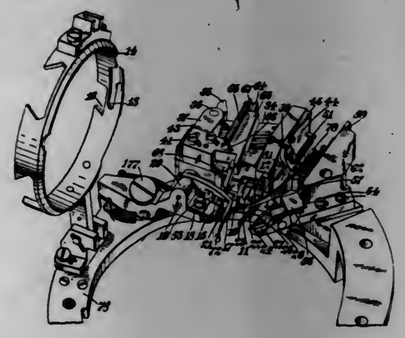


1. A domestic floor-cleaner having an ambulant wheeled frame including an electric motor, a fan-casing and a downturned suction-nozzle, said motor being of cylindrical form with its axis upright and having a recess in its front side adjacent said nozzle, and an electric lighting device mounted in said recess.

1,917,762. METHOD OF EXTRACTING BROMINE FROM DILUTE SALINE SOLUTIONS. JOHN J. GREEB, RAY H. BOUNDY, and LEONARD C. CHAMBERLAIN, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Aug. 4, 1930. Serial No. 472,820. 6 Claims. (Cl. 23—217.)

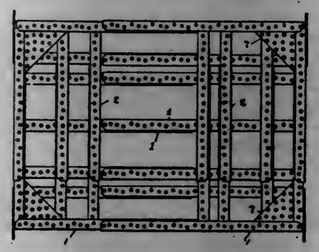
1. The process of extracting bromine from sea water and the like which comprises acidifying the same to produce therein a hydrogen ion concentration substantially between the limits expressed as pH—3 and pH—6, oxidizing to liberate bromine in the elemental state, vaporizing such bromine and absorbing the vapors in an absorbent medium therefor.

1,917,763. KNITTING MACHINE. HENRY HAROLD HOLMES, Leicester, England, assignor to Wildt and Company, Limited, Leicester, England, a British Company. Filed Dec. 11, 1930, Serial No. 501,723, and in Great Britain Dec. 14, 1929. 9 Claims. (Cl. 66—134.)



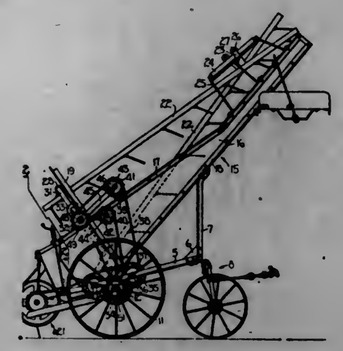
1. A knitting machine, yarn-feeding means comprising a plurality of yarn feed eyes and a yarn-trapper associated with at least one of them, the said yarn-trapper and its associated feed eye being disposed at a position above the feed eye of another yarn-feeder.

1,917,764. CONTAINER COMPOSED OF STRUCTURAL MEMBERS. ALEXANDER HOWIE, Shaker Heights, Ohio. Filed May 13, 1932. Serial No. 611,047. 19 Claims. (Cl. 220—4.)



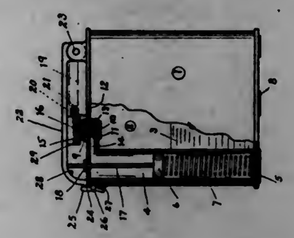
12. A structural member provided with perforations, the center of which are arranged in rows spaced apart from each other a distance equal to the thickness of said member.

1,917,765. HAY LOADER. JAMES E. HURLEY, Sioux City, Iowa, assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa, a Corporation of Iowa. Filed Dec. 26, 1931. Serial No. 583,309. 5 Claims. (Cl. 56—362.)



5. In a hay loader, an elevator frame, supporting wheels at each side of said frame, a plurality of raker bars above said frame, a transversely disposed crankshaft supporting the lower ends of said raker bars, a supporting bracket secured to each side of the frame, a slot in each of said brackets, a bearing journaled on each end of the crank shaft and floatingly positioned within the slot of the supporting bracket, a drive chain operated by the supporting wheel and driving the crank shaft, and an arm secured to said sleeve and pivotally connected to the elevator frame to hold the sleeve out of binding contact with the sides of the slot.

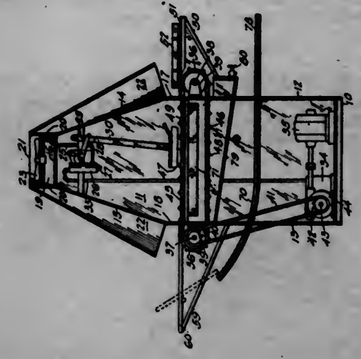
1,917,766. LIGHTER. GEORGE H. JASPERT and JAMES M. GUTHRIE, Pittsburgh, Pa., assignors of one-third to William B. Jaspert, Pittsburgh, Pa. Filed Mar. 3, 1930. Serial No. 432,680. 3 Claims. (Cl. 67—7.1.)



1. In a cigar lighter the combination with a chamber for combustible fluid, of a burner in communication with such chamber, mechanism for projecting said combustible fluid from said burner, and locking means for maintaining said mechanism in an energetic condition, whereby when said locking means are released, said mechanism automatically operates under its potential energy, which mechanism, when said locking means are returned to locking position is restored to its energetic condition.

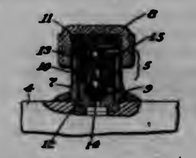
1,917,767. PAN GREASING MACHINE. SVEN P. LARSON, Berkeley, Calif. Filed Mar. 2, 1931. Serial No. 519,897. 24 Claims. (Cl. 91—45.)

1. A pan spraying machine comprising in combination with a cabinet, and a conveyor extending through said cabinet; a feed table provided with a pair of resiliently actuated centering arms, a return chute extending through said cabinet beneath said conveyor, and a tipping table cooperating selectively with said conveyor and said chute and actuated by the weight of a pan, and means for



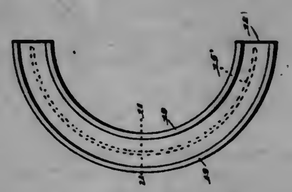
locking said tipping table in conveyor cooperative relation whereby the pans may selectively be rturned to the feed end or discharged directly at the discharge end.

1,917,768. CABLE JOINT. FREDERICK V. MALOON, Boston, Mass., assignor to James Sugden Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 12, 1927. Serial No. 225,812. 3 Claims. (Cl. 277—70.)



1. A plug for a cable joint sleeve comprising a body adapted to be secured to said sleeve, an internal plug removably mounted in said body, a filling stem secured in and projecting from said internal plug, and two ball check valves mounted in series in said stem and both controlling the passage through said stem.

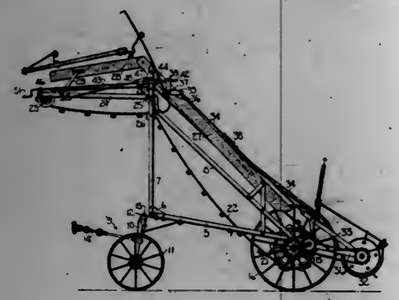
1,917,769. ANTIFRICTION PACKING. JAMES S. MCNAIR, Spokane, Wash., assignor to Reliance Packing & Manufacturing Co., a Corporation of Washington. Filed Apr. 14, 1931. Serial No. 529,994. 8 Claims. (Cl. 106—8.)



4. In a semi-metallic packing, a mass aggregate consisting in one part of geometric metallic blocks having plane faces in different angular relation to each other for primarily sustaining wear, friction and compressive stresses, and of another part of geometric spacing blocks of oil absorbent material having plane faces for separat-

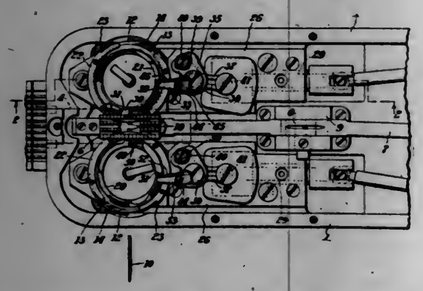
ing said metallic blocks from each other, and said metallic and spacing blocks being intermingled and freely and individually slidable against and along each other, and said absorbent spacing blocks being soaked with a lubricant for facilitating relative sliding movement of said blocks with respect to each other.

1,917,770. HAY LOADER. HERMAN MOSCHEL, Ottumwa, Iowa, assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa, a Corporation of Iowa. Filed Nov. 18, 1931. Serial No. 575,718. 6 Claims. (Cl. 56—351.)



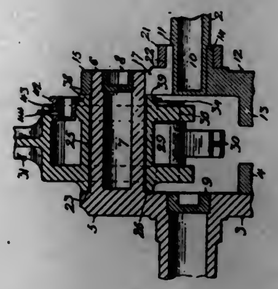
1. In a hayloader, a wheel supported frame adapted to be attached to a wagon, an inclined elevator supported on the frame and having an elevator extension pivotally mounted on the upper end thereof and adapted to overhang the adjacent rear end of the wagon, a raking cylinder adjustably supported at the rear end of the frame, and means for vertically adjusting the raking cylinder from the wagon, said means being supported on the frame and the elevator extension and having a joint in proximity to the pivot of the elevator extension.

1,917,771. SEWING MACHINE. WALTER MYERS, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Nov. 3, 1932. Serial No. 640,928. 7 Claims. (Cl. 112—228.)



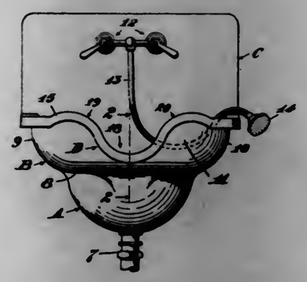
1. In a sewing machine, a reciprocatory thread-carrying needle, a rotary loop-taker cooperating with said needle in the formation of stitches, a bobbin-carrier journaled in said loop-taker, means for restraining rotation of said bobbin-carrier with said loop-taker, and means for opening a thread passage past said rotation-restraining means including an opener device constructed and arranged to yieldingly engage said bobbin-carrier to initiate oscillation of the bobbin-carrier in a direction reverse to the direction of rotation of said loop-taker.

1,917,772. RADIAL MOTOR. JOHN NEWMANN, Brooklyn, N. Y.; Charles G. Hensley, receiver, New York, N. Y. Reflled for abandoned application Serial No. 299,943, filed Aug. 16, 1928. This application filed July 17, 1931. Serial No. 551,427. 9 Claims. (Cl. 74—17.)



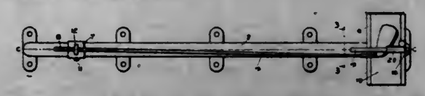
1. In a crank construction for radial motors the combination of a shaft having a crank including a wrist pin, an annular bearing member revolvably mounted upon said wrist pin and having spaced lateral flanges provided with knuckle pin apertures, a plurality of connecting rods having heads disposed between said flanges, knuckle pins passing through the knuckle pin apertures in said flanges and the heads of said connecting rods to pivotally connect said rods with said flanges, said knuckle pins having lateral flanges on one end thereof and a detachable ring mounted on said annular bearing member and engaging the said lateral flanges to hold the knuckle pins in assembled position in said first mentioned flanges.

1,917,773. SHAMPOO LAVATORY. ROBERT A. NORTHCOTT, Los Angeles, Calif. Filed Dec. 16, 1929. Serial No. 414,858. 2 Claims. (Cl. 4—159.)



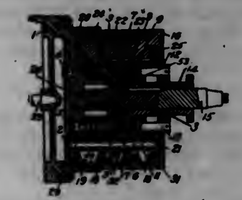
1. A shampoo substantially hemispherical fixture, comprising a lavatory bowl, a shampoo tray projecting laterally and forwardly from the margin of said bowl and merging therewith, said tray including a bottom wall and upstanding back, side and front walls, said front wall being inclined forwardly and formed with an arcuate neck and head supporting depression, the lower marginal portion of which is spaced above the adjacent bottom portion of said tray and well below the margins of said back, side and front walls and the side portions of which are spaced inwardly from the side walls of said tray, the bottom wall of said tray projecting forwardly from said forward margin of said bowl such distance that with the aforesaid spacing of the marginal portions of said head supporting depression, the top, sides and back of the head of a person whose neck is seated in said depression will be spaced forwardly of said bowl above the bottom of said tray and inwardly from the side walls of the tray.

1,917,774. GOLF CLUB AND MANUFACTURE OF THE SAME. WILLIAM OGG and LEON A. STORR, Worcester, Mass. Filed Oct. 4, 1932. Serial No. 636,198. 12 Claims. (Cl. 273—77.)



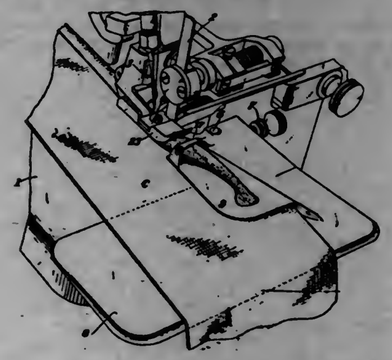
1. As a new article of manufacture, a golf club comprising a shaft and a head, the latter having the weight of its material permanently so distributed as to substantially equalize the turning moments of the masses of head and shaft materials about an axis extending from the approximate center of the grip portion of said shaft and crossing a spot or zone of the hitting face of the head that lies appreciably above the lower edge or sole and approximately centrally of the length of said face.

1,917,775. COUPLING. ERNST PFLÜGER, Zurich, Switzerland. Filed Aug. 28, 1930. Serial No. 478,502. 5 Claims. (Cl. 192—48.)



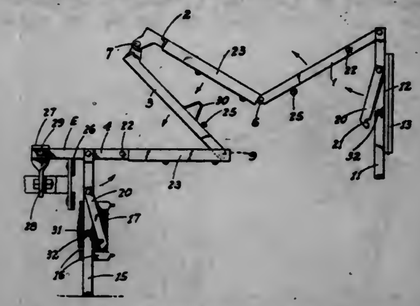
1. In a coupling the combination of a case with tapered grooves, fixed to the shaft of the variable speed gears, a case with swinging levers with corresponding tapered surface for the purpose of catching the case with tapered grooves by centrifugal force and a coupling with two parts, one part for the purpose of connecting the case with the levers to the motorshaft by friction at first, the other part, connecting the case with levers rigidly to the motorshaft afterwards.

1,917,776. FOLDER FOR SEWING MACHINES. RUDOLPH J. SAILER, Townley, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Oct. 25, 1932. Serial No. 639,399. 9 Claims. (Cl. 112—140.)



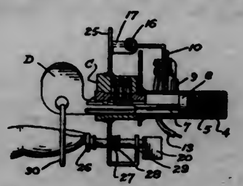
1. A folder adapted to make an S-shaped fold at the edge of material and comprising a work-supporting plate, a lip provided with a slot overlying said plate, and a tongue extending through said slot and overlying a portion of said lip.

1,917,777. MOTOR VEHICLE BED ATTACHMENT. WILLIAM A. SCOTT, Lodi, Calif. Filed Oct. 28, 1931. Serial No. 570,547. 6 Claims. (Cl. 5—119.)



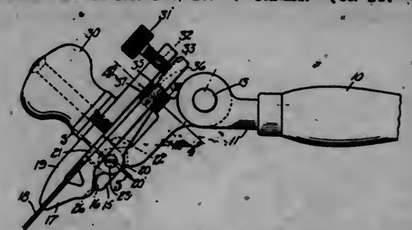
1. A folding bed structure comprising a plurality of separate side rail sections, means hingedly connecting said sections for folding movement in successively superimposed order whereby the two end sections of the frame then occupy the top and bottom button positions, legs pivoted on the outer ends of the end sections to depend to the ground or to fold alongside said sections, and means between the opposed legs and arranged to function when the legs and the frame sections are folded to hold said legs and sections against unfolding movement.

1,917,778. KEY EJECTING MECHANISM. RICHARD B. SMITH, San Francisco, Calif. Filed Feb. 8, 1931. Serial No. 513,126. 15 Claims. (Cl. 70—47.)



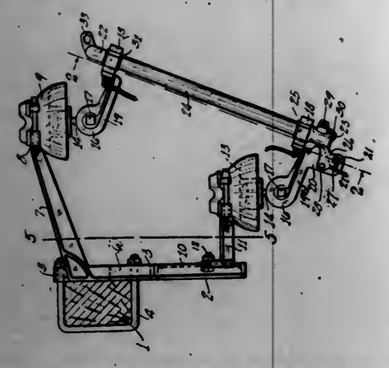
1. A housing having a keyway for the reception of a key, mechanism in the housing actuated by a key to lock or unlock the lock, means for retaining the key against removal when the lock is unlocked, means operable independent of the key for locking the lock, and means for automatically ejecting the key when the lock is locked by said last named means.

1,917,779. SCRAPER. AUSTIN L. STOWELL, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed July 7, 1932. Serial No. 621,227. 7 Claims. (Cl. 147—47.)



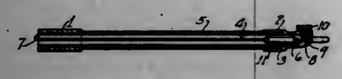
1. A scraper having a frame member with a handle attached thereto, a scraping blade holder comprising a pair of plates having opposed jaw portions at one end, a scraping blade positioned between said jaw portions, means for pivoting each of said plates to said frame member, and a spring interposed between said frame member and said blade holder rearwardly of said pivot means.

1,917,780. FUSE SWITCH. JOHN B. TRESCOTT, Overland, and SAMUEL S. BAKER, Webster Groves, Mo., assignors, by mesne assignments, to James R. Kearney Corporation, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 5, 1929. Serial No. 383,734. 26 Claims. (Cl. 200—114.)



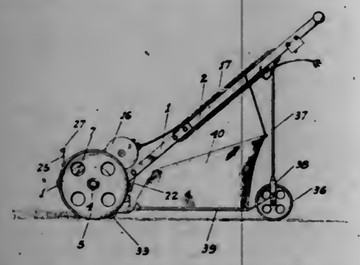
14. In a fuse switch, a pair of spaced terminal carrying arms, a plate on one of said arms having a hooked recess therein, a fuse cartridge including spaced terminals, and a tube extending between said terminals, a pair of spaced flanges projecting laterally of one of said terminals, and one thereof being provided with an aperture for a fuse-manipulating tool, a pin between said flanges adapted to engage said hooked recess with said flanges extending laterally of said plate to guide said terminals into proper engagement with said terminal carrying arms.

1,917,781. FUSE AND METHOD OF EXPELLING FUSE WIRE THEREFROM. JOHN B. TRESCOTT, Overland, Mo., assignor, by mesne assignments, to James R. Kearney Corporation, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 5, 1929. Serial No. 383,735. 17 Claims. (Cl. 200—127.)



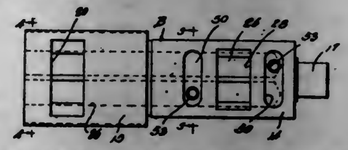
1. A fuse having a fixed rupture point enclosed by a volatile substance of high dielectric properties, and a substance adapted to volatilize said dielectric substance.

1,917,782. LAWN MOWER. LEWIS W. VACHON, Stockton, Calif., assignor to Pliny E. Holt, Stockton, Calif. Filed Dec. 21, 1929. Serial No. 415,649. 14 Claims. (Cl. 52—26.)



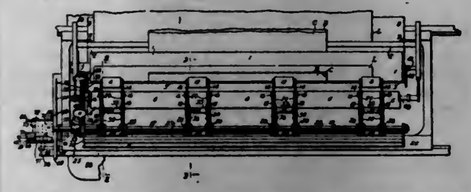
1. A lawn mower including a casing structure, a reel turnably mounted therein, a fixed blade to cooperate with the reel, a roller to engage the ground adjacent said blade, means separate from the casing in which said blade and roller are mounted in common, and means supporting said last named means from the casing to enable the height of the blade to be altered at will without affecting the roller.

1,917,783. CONSTRUCTION FOR ROTARY TYPE CYLINDER AND PISTON MECHANISM. HARRY F. VICKERS, Los Angeles, Calif. Filed May 19, 1930. Serial No. 453,850. 8 Claims. (Cl. 103—161.)



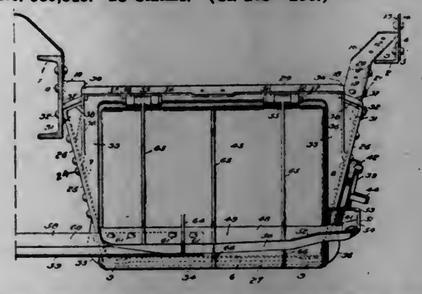
1. A hub for a mechanism of the character described having longitudinal high and low pressure ports opening at the surface of the hub at circumferentially spaced points, recesses spaced in opposite directions longitudinally of the hub from the opening of the low pressure port, and means for communicating pressure from the high pressure port to the recesses including tubes extending through openings in the hub intersecting the low pressure port and connecting the high pressure ports and the recesses.

1,917,784. TYPEWRITING MACHINE. SIGURD L. WALSON, Springdale, Conn., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Jan. 9, 1930. Serial No. 419,593. 25 Claims. (Cl. 197—128.)



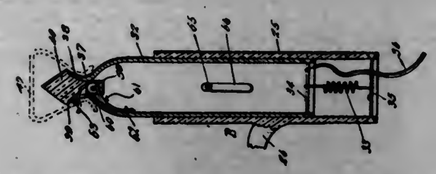
1. The combination of a carriage, a platen carried thereby, feed rollers movable into and out of contact with the platen, hand controlled means for applying said feed rollers, and automatically operating means controlled by the return movement of the carriage for releasing said feed rollers.

1,917,785. HOPPER CAR CONSTRUCTION. WILLIAM E. WINE, Toledo, Ohio. Filed Feb. 12, 1929. Serial No. 339,348. 18 Claims. (Cl. 105—280.)



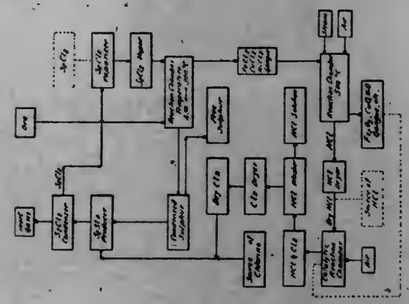
1. A hopper car door having a stiffening member formed integrally therewith adjacent its lower edge, said stiffening member being of angular shape and extending substantially continuously from adjacent one side edge of the door to adjacent its opposite edge.

1,917,786. SWITCH. ALEX R. YESCHICK, Brownton, Minn. Filed Nov. 29, 1932. Serial No. 644,893. 5 Claims. (Cl. 200—76.)



5. A switch of the class described comprising a casing, a substantially U-shaped spring member at one end of the casing forming a stationary contact, a member slidably arranged in the casing and having one end reduced and adapted to enter the space between the limbs of the stationary contact, said member forming a movable contact, a wedge-shaped part carried by the reduced end of said member for moving the limbs of the stationary contact apart, said wedge part being formed of non-conducting material, a spring tongue carried by said wedge shaped part and passing through an opening in the reduced part and one limb of the stationary contact having an opening therein for receiving the tongue, a part of the metal left by the opening being bent outwardly to engage the tongue and a handle connected to the sliding member.

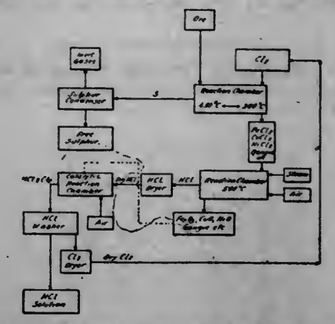
1,917,787. RECOVERY OF SULPHUR. RAYMOND F. BACON, Bronxville, and ROCCO FANELLI, New Rochelle, N. Y.; said Fanelli assignor to said Bacon. Filed Feb. 25, 1930. Serial No. 431,132. 10 Claims. (Cl. 23—224.)



1. The method of recovering sulphur from iron sulphide-bearing material containing sulphides of one or more other heavy metals which comprises subjecting the material to the action of a chlorinating agent under such conditions that elemental sulphur and a dry, substantially non-fused product containing ferrous chloride and chlorides of such other heavy metals as may be present in the material are formed and the sulphur is vaporized, subjecting the combined chloride product directly to the action of steam and air to produce simultaneously hydrogen chloride and oxides of the heavy metals, treating the hydrogen chloride to recover chlorine, and returning the chlorine thus recovered to the process.

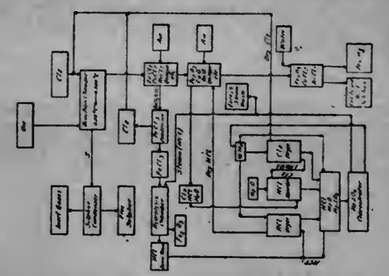
1,917,788. RECOVERY OF SULPHUR. RAYMOND F. BACON, Bronxville, and ROCCO FANELLI, New Rochelle, N. Y.; said Fanelli assignor to said Bacon. Filed Feb. 25, 1930. Serial No. 431,133. 4 Claims. (Cl. 23—224.)

1. The method of treating iron sulphide-bearing material containing sulphides of one or more other heavy metals which comprises subjecting the material to the action of chlorine under such conditions that elemental sulphur and a dry, substantially non-fused product containing ferrous chloride and chlorides of such other heavy metals as may be present in the material are formed and the sulphur is vaporized, subjecting the combined chloride product directly to the action of air and steam to produce



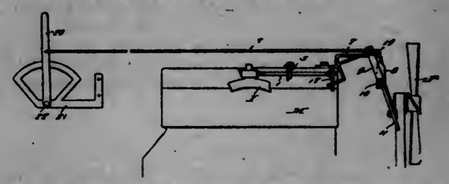
simultaneously hydrogen chloride and oxides of the heavy metals, treating the hydrogen chloride to recover chlorine, and returning the chlorine thus recovered to the process.

1,917,789. RECOVERY OF SULPHUR AND IRON OXIDE. RAYMOND F. BACON, Bronxville, and HENRY T. HOTCHKISS, Jr., New Rochelle, N. Y.; said Hotchkiss, jr., assignor to said Bacon. Filed Feb. 26, 1930. Serial No. 431,469. 5 Claims. (Cl. 23—200.)



1. In a process for recovering sulphur from iron sulphide-bearing material, the improvement which comprises subjecting the material to the action of a chlorinating agent in such amount as to produce ferrous chloride and elemental sulphur at a temperature sufficiently elevated to vaporize the sulphur, subjecting the ferrous chloride to the action of air to form ferric chloride and ferric oxide, hydrolysing the ferric chloride to form hydrogen chloride, subjecting the hydrogen chloride to the action of air in the presence of ferric oxide resulting from the treatment of the ferrous chloride with air to obtain chlorine, and returning the chlorine to the process for the treatment of additional iron sulphide-bearing material.

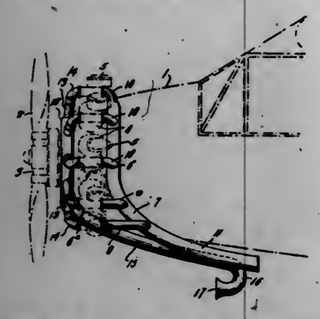
1,917,790. FAN CONTROL GOVERNOR. OTTO H. BAUMANN, McKittrick, Mo. Filed July 30, 1932. Serial No. 627,044. 8 Claims. (Cl. 123—108.)



1. A governor for an internal combustion motor including a fan and a throttle member, a lever pivotally supported in rear of the fan, a blade carried by the lever

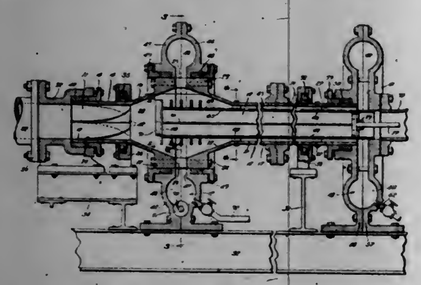
and acted on by the air from the fan, a member connected with the throttle valve and means for actuating the member by the movement of the blade, a hand lever and means for connecting the hand lever with the first mentioned lever.

1,917,791. AIRCRAFT ENGINE. GIUSEPPE M. BELLANCA, New Castle, Del. Filed June 7, 1930. Serial No. 459,749. 6 Claims. (Cl. 123—55.)



1. A Diesel engine for aircraft having a plurality of cylinders, each having a common air inlet and exhaust passage an intake manifold in front of the cylinders and an exhaust manifold to the rear of its cylinders said intake manifold having an extension below and to the rear of the engine for supplying air under pressure to the cylinders.

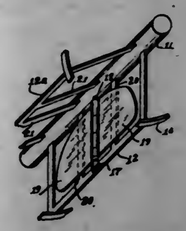
1,917,792. METHOD AND APPARATUS FOR SEPARATING FLUIDS. OLIVER G. BOWEN, Pasadena, Calif, assignor to Arthur W. Lewis, Pasadena, Calif. Filed July 27, 1932. Serial No. 625,146. 14 Claims. (Cl. 23—21.)



1. Apparatus for separating the gas and oil from crude petroleum including a rotatable tubular body, means for rotating the body, means for passing the petroleum under pressure into one end of the body, vanes in the body for acting on the petroleum to cause it to rotate with the body, there being a chamber in the body spaced between the ends of the body, and an opening in the wall of the body communicating with the chamber, a trap for receiving the water, solid matter etc., thrown outwardly to said opening by centrifugal force, a tube in the body for receiving the gas and for discharging it from the other end of the body and a trap at said other end of the body for receiving the oil.

1,917,793. MEANS FOR UTILIZING WATER POWER. JORGEN BOYSEN, New York, N. Y. Filed May 14, 1931. Serial No. 537,333. 3 Claims. (Cl. 170—110.)

1. In a device of the class described, a cylindrically shaped rotating wheel, comprising a central hub, rectangular formed skeleton frame members arranged in pairs and being secured to the said hub, each pair of frame members having one of its members formed with three cross bars arranged between the longitudinal sides of the said member, a pair of wing-formed plates pivotally mounted upon the center one of the three cross bars, the two outer cross bars serving to stop the said plates, when in an extended position; the other one of each pair of frame members being formed with two cross bars between the longitudinal sides thereof, the latter cross bars being sufficiently close together to permit the said plates to nearly fold together, when the latter are in an extreme position contrary to the extended one, during operation, and hoops encircling the said skeleton frame members.

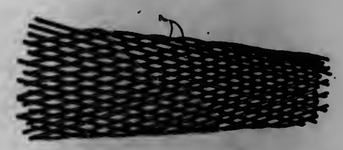


1,917,794. FINGER TIP AND NAIL SHAPER. HAZEL P. BROWN, Hartford, Conn., assignor of one-fourth to Jan P. Clary, Hartford, Conn. Filed Dec. 28, 1931. Serial No. 583,553. 6 Claims. (Cl. 128—77.)



5. In a finger tip and nail shaper, a tip shaper of channel formation open at its inner end with the outer end closed by an arched and curved wall, a nail shaper including a ring slidable upon the tip shaper and having a nail engaging member overlying the outer end of the tip shaper, and a spring arm connecting the nail engaging member to the ring.

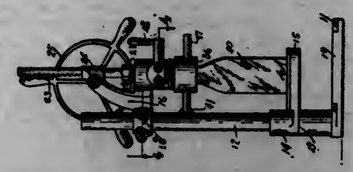
1,917,795. GOLF CLUB STRUCTURE. EDWARD FETTER, Baltimore, Md. Filed Sept. 18, 1930. Serial No. 482,707. 1 Claim. (Cl. 273—80.)



A golf club having a head and a shaft, the shaft being composed of solid rubber and a reinforce about which the rubber is molded, the reinforce being composed of fine wire fabric consisting of two series of substantially parallel wires, the wires of the respective series being oppositely inclined to the axis of the club, the wires of one series being arranged to intermesh with those of the other series.

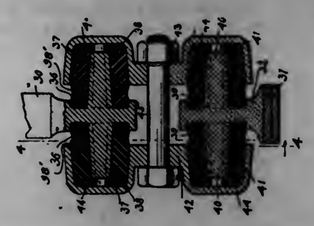
1,917,796. COMBINED BOTTLE FILLING AND CAPPING MACHINE. JOSEPH GRANDINETTI, Syracuse, N. Y. Filed Dec. 28, 1931. Serial No. 583,483. 2 Claims. (Cl. 226—77.)

1. In a bottle filling and capping machine, a bottle support, a casing above the bottle support for receiving the neck of the bottle, means for sealing the neck of the bottle in the casing, a bottle capper carried by the casing and a valve device carried by the casing for controlling the flow of beverage to the casing and the outlet of air from the bottle and casing, said casing being threaded at its



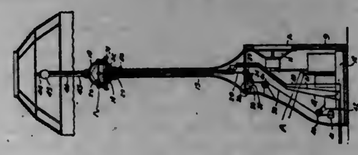
lower open end and the bottle neck sealing means comprising a ring threaded on the casing and gaskets interposed between the ring and casing, and means for limiting unthreading movement of the ring on the casing.

1,917,797. PIVOTAL CONNECTION. HOWARD C. HARRIS, Akron, Ohio; Archer H. Harris, administratrix of said Howard C. Harris, deceased, assignor, by mesne assignments, to The First Central Trust Company, Akron, Ohio, a Corporation of Ohio, as trustee. Filed June 4, 1926. Serial No. 113,611. 31 Claims. (Cl. 267—54.)



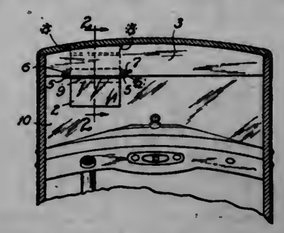
1. In devices of the class described, the combination of a frame member having arms projecting from opposite sides thereof, a spring member having arms projecting from the opposite sides thereof and in parallel relation to the first-mentioned arms, shackle members having cup-shaped portions enclosing the end portions of said arms but spaced therefrom, rubber bushings non-rotatably held in said cup-shaped portions and non-rotatably arranged on said arms and through which the shackle members are oscillatably connected with the arms, and a bolt connecting said shackle members and adapted to draw them together to compress said bushings axially.

1,917,798. COMBINED RADIO CABINET AND LAMP. JOHN J. HERLIHY, Pittsburgh, Pa. Filed May 29, 1930. Serial No. 457,375. 4 Claims. (Cl. 250—14.)



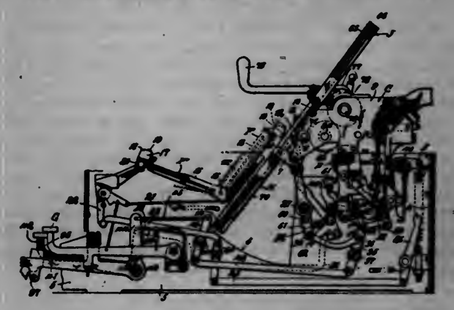
1. In a radio apparatus, a base, a hollow standard rising from the base and comprising upper and lower sections, a radio receiver including a loud speaker and a tuner arranged in said base, a casing disposed between and uniting the sections of the standard and having a display opening, a station indicator in said casing movable with relation to said display opening, gearing in the base for adjusting the tuner, operating means actuable from the exterior of the casing for operating the station indicator, and means extending through the standard between the base and casing and connecting said operating means in the casing and the gearing in the base for simultaneous actuation.

1,917,799. ANTIGLARE DEVICE. LUDLOW H. KING and RAYMOND G. STOCK, St. Louis County, Mo. Filed Feb. 19, 1931. Serial No. 516,962. 3 Claims. (Cl. 296—97.)



1. The combination with an automobile windshield structure comprising an upper frame member having a pocket extending upwardly from the lower edge thereof, of an anti-glare device arranged adapted to be positioned in said pocket when not in use and to be extended into position over a portion of the windshield glass when in use, said anti-glare device comprising a supporting member and a glare screen of rigid transparent material hingedly mounted thereto, means for moving said device into and out of said pocket and for maintaining said device in adjusted position, and said pocket being arranged with respect to said windshield whereby when said anti-glare device is extended therefrom said glare screen will be in close proximity to said windshield glass.

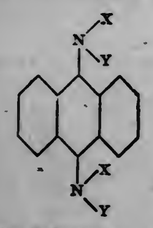
1,917,800. TYPEWRITING MACHINE. JOHN J. KITTEL, St. Albans, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Original application filed Dec. 14, 1931, Serial No. 539,919. Divided and this application filed Feb. 13, 1932. Serial No. 592,799. 5 Claims. (Cl. 197—22.)



1. In a typewriting machine, the combination with a flat platen-supporting frame having spaced vertical slots, of a flat platen slidably mounted on the front face of said frame for line space movements, means for supporting a work sheet on said platen, a pair of rack bars fixed to the platen and projecting rearwardly through said slots, and means for effecting line space movements to the platen including a horizontal shaft disposed in rear of the platen, pinions fixed to the shaft and engaging the rack bars, an operating shaft disposed in parallelism with the pinion carrying shaft, a manually operable ratchet mechanism including a ratchet wheel journaled on the operating shaft, a releasable clutch connecting the ratchet wheel and the operating shaft, a gear connection between one of the pinions and the driven clutch member, and manually operable means for opening said clutch.

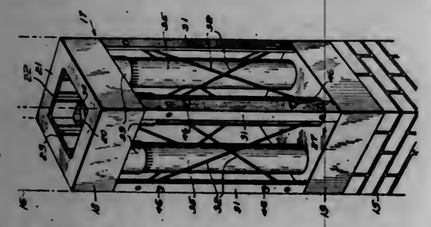
1,917,801. 9.10 DIAMINO ANTHRACENE AND ITS N-SUBSTITUTION PRODUCTS. MAX ALBERT KUNZ, Mannheim, and RUDOLF STROH and HERMANN DIMROTH, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 8, 1931, Serial No. 528,702, and in Germany Dec. 1, 1928. 5 Claims. (Cl. 260—128.)

1. Anthracene substitution products having the general structure:



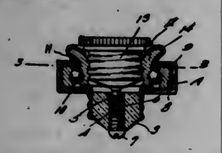
in which X stands for hydrogen, or an acyl radicle of the lower fatty acid series, and Y for hydrogen or an acyl radicle of the lower fatty acid series or a radicle of the benzene series, in which last case X must be hydrogen, which anthracene substitution products fluoresce when exposed to ultra-violet light and are readily decomposed to form anthraquinones.

1,917,802. CHIMNEY HEATER. MICHAEL LEONARD, Rolette, N. Dak. Filed July 16, 1932. Serial No. 622,949. 5 Claims. (Cl. 257—165.)



4. A heater to be arranged between chimney sections or the like, comprising spaced upper and lower polygonal boxes, the lower box having an opening in its bottom and the upper box having an opening in its top, pipes arranged between the boxes and in communication therewith, upstanding bars disposed at the corners of the boxes and rigidly secured thereto, said bars having studs, and a plurality of plates adapted to be mounted upon the bars, each plate having a flange at one vertical edge, said flange having L-shaped slots, each plate being provided near its opposite vertical edge with L-shaped slots, the arrangement being such that the several studs are adapted to extend through the slots in the plates and in the bars, and detachably lock the plates to the bars.

1,917,803. ELECTRIC PLUG. EUGENE LOOSLI, Ilion, N. Y. Filed Mar. 2, 1932. Serial No. 596,867. 2 Claims. (Cl. 200—51.)

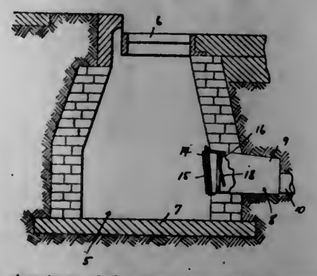


2. A device of the class described comprising a metal shell having a reduced tubular portion extending from its bottom for fitting in a socket, a member of non-conducting material located in said tubular portion, a contact carried by said member, a raceway in the shell, the upper edge of the shell being bent over upon the raceway to hold the same in place, said bent over portion forming an opening in the top of the shell, a plug carrying member extending into the shell through said opening and having an exterior groove therein, balls located between the raceway and the lower part of said plug carrying member and having portions fitting in the groove in said plug carrying member, a plug threaded in said member and having its center contact engaging the first-mentioned contact, said plug carrying member having its upper end flaring outwardly to provide a finger engaging part and a cover of non-conducting material for said part.

1,917,804. RUBBER VULCANIZATION ACCELERATOR. GEORGE L. MAGOUN, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 14, 1931, Serial No. 562,825. Renewed Dec. 9, 1932. 20 Claims. (Cl. 18—53.)

1. The process of vulcanizing rubber which comprises heating rubber and sulfur in the presence of an accelerator comprising a reaction product of an aldehyde and a mercaptoarylthiazole derivative of an aldehydeamine reaction product.

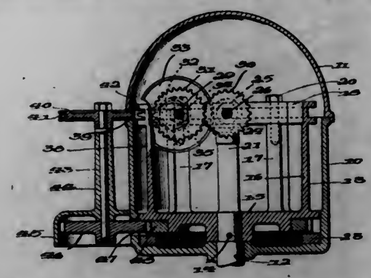
1,917,805. CATCH BASIN TRAP. CLARENCE A. MCMANUS, Albany, N. Y. Filed July 6, 1931. Serial No. 549,004. 2 Claims. (Cl. 182—4.)



1. In a structure of the class described, a casing adapted to be arranged horizontally and having a substantially horizontal bottom wall and a top wall inclined with respect to the bottom wall, said casing being provided with an inlet end and with side walls connecting the top and bottom walls and increasing in height toward the inlet end of the casing, the ends of said side walls at the inlet end of the casing being inclined at an obtuse angle to the bottom wall of the casing and provided with inclined guides, a guard carried by said inclined guides and disposed at an obtuse angle to the plane of said bottom wall, the bottom wall of said casing being offset downwardly at the inlet end of the casing and being in the path of descent of said guard to constitute a stop therefor, and a check valve arranged within said casing in spaced relation to said guard, said guard being removable upwardly from the inlet end of said casing.

1,917,806. CUT-OFF MECHANISM FOR TUBE MACHINES. GIDEON BROWN MILLER, Jr., Washington, D. C., assignor to Stone Straw Corporation, Washington, D. C., a Corporation of Delaware. Filed Jan. 25, 1932. Serial No. 588,721. 6 Claims. (Cl. 164—61.)

6. A cut-off mechanism for tubes comprising a stationary housing, a shaft having a turret secured thereto, the shaft and turret fitted to rotate within parts of the housing, a stationary gear carried by said housing, two shafts journalled in the turret at right angles to each other, each having a transmission gear whereby motion of the one is transmitted to the other, a pinion on one of said shafts engaging the teeth of said stationary gear to effect rotation of the shafts carried by the turret when such turret is rotated, a pintle having a gear thereon in mesh with a second gear driven from one of said shafts carried by the turret, and an eccentrically mounted rotary cutter on said pintle, the edge of said cutter being periodically projected



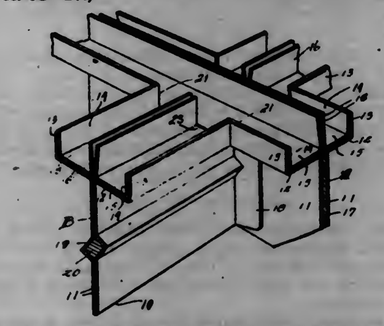
beyond the confines of the turret by reason of such eccentric mounting, and tube guiding means for projecting a formed tube tangentially of the turret and in position to be severed by said cutter in its eccentric rotation and during its revolution about the axis of the turret.

1,917,807. OPEN HEARTH FURNACE. HENRY M. MURPHY, Fairfield, Ala. Filed July 26, 1932. Serial No. 624,803. 6 Claims. (Cl. 263—15.)



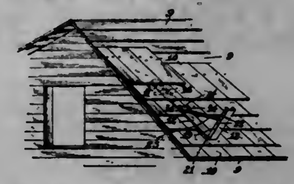
1. In combination with an open hearth furnace and a respective regenerator communicating with each end of the furnace having a plurality of checker chambers therein so separated by common vertical partition means as to place said chambers in parallel, a connecting structure between each regenerator and the furnace having only a single flue communicating with one end of the furnace and said plurality of checker chambers.

1,917,808. FLOOR LIGHT, VAULT LIGHT, AND ROOF LIGHT CONSTRUCTION. JAMES H. OLD, Forest Park, Ill., assignor of one-half to Julius J. Ohlis, Chicago, Ill. Filed Apr. 2, 1931. Serial No. 527,283. 13 Claims. (Cl. 94—27.)



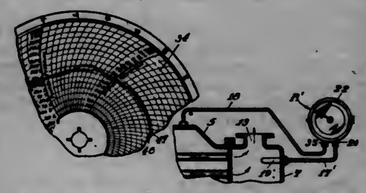
1. In a vault light, sky light, or floor light structure, longitudinal and transverse supporting elements defining rectangular openings, each element having two parallel seats defined by laterally and upwardly extending flanges, the lights having downwardly extending marginal flanges operatively supported on the seats, and binding material disposed in the spaces between the side edges of the lights, the supporting elements being formed to provide anchoring members extending divergently upward into the binding material but terminating short of the upper surface of the binding material and the lights.

1,917,809. ROOF BRACKET OR JACK. LOUIS P. REIMANN, Buffalo, N. Y. Filed Nov. 26, 1930. Serial No. 498,329. 5 Claims. (Cl. 304—20.)



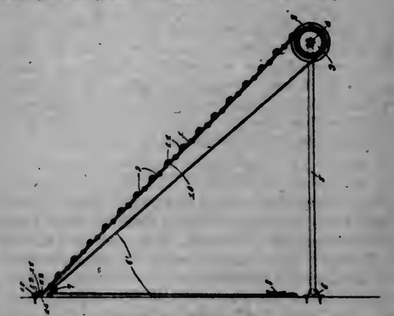
1. A roof bracket, comprising a supporting member, a jack member pivotally connected to said supporting member, a brace member pivotally connected to said supporting member, and means for detachably connecting said brace member to said jack member at different points along the length of the same, said jack and brace members being foldable one over the other on and parallel with said supporting member.

1,917,810. SYSTEM FOR INDICATING WORKING CONDITIONS OF CONDENSERS AND THE LIKE. ROLAND G. REYNOLDSON, Madison, Wis. Filed Aug. 7, 1931. Serial No. 555,814. 11 Claims. (Cl. 234—6.)



7. An instrument comprising a thermometer having an element responsive to temperature within a gaseous space and designed to record such temperature in terms of that pressure which a particular vapor, known to be within said space, should have at said temperature; and a pressure-responsive device designed to record the actual total pressure within said space.

1,917,811. ROLLING METAL AWNING. FRANCIS J. RICHARDSON, New Orleans, La. Filed July 1, 1931. Serial No. 548,235. 1 Claim. (Cl. 189—56.)



An awning comprising flexible strips, rigid slats secured to said strips and having arcuately curved opposite

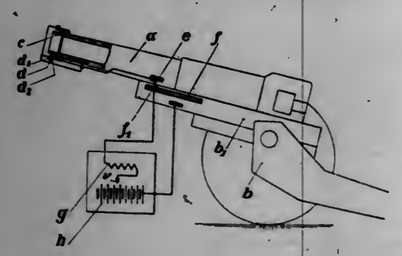
edges with the edge of each slat overlapping in spaced relation the arcuate edge of the adjacent slat to permit hinging of said slats relative to each other without the slats binding one with another and without the slats moving out of overlapped relation, a roller secured to one of the end slats, a plate hinged to the other end slat and secured to a building and simultaneously securing the strips to said building, means for supporting the roller, and means for rotating the roller to wind the strips and slats thereon.

1,917,812. FINGER-HOLD FOR SAFETY RAZORS. WALLACE W. ROBINSON, Portland, Me. Filed Aug. 22, 1932. Serial No. 629,796. 2 Claims. (Cl. 30—12.)



1. A safety razor holding device comprising in combination with a guard, a back member and a screw-threaded stud extending from said back member to and through said guard, a finger-engaging band of generally circular form rotatively mounted on said guard, an inwardly disposed depression in the wall of said band, an aperture in the bottom of said depression, a nut, adaptable of screw-threaded engagement with said stud, disposed within said band, a reduced portion on said nut operable in said aperture, and means to hold said nut against displacement from said band when disengaged from said stud.

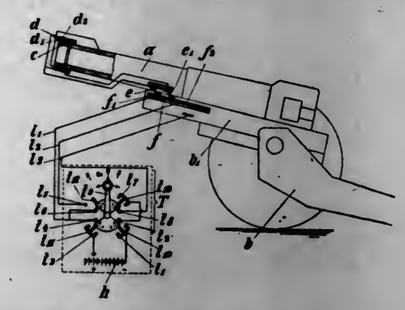
1,917,813. DEVICE FOR PROVIDING ENERGY FOR ELECTRICAL IGNITORS. HERBERT RÜHLEMANN, Sommerda, Germany, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorff, Germany. Filed Apr. 20, 1932, Serial No. 606,488, and in Germany Apr. 27, 1931. 16 Claims. (Cl. 89—1.)



16. A device for transferring electrical energy into the electrical equipment of explosive bodies as they are released, comprising a condenser adapted to receive a charge of electrical energy and store it therein, and means for directing the body adjacent the condenser so that the electrical energy in the condenser will be transferred to the electrical equipment in the body.

1,917,814. CIRCUIT CONNECTIONS FOR FEEDING ENERGY TO ELECTRIC IGNITORS. HERBERT RÜHLEMANN, Sommerda, Germany, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorff, Germany, a Corporation of Germany. Filed Apr. 20, 1932, Serial No. 606,489, and in Germany Apr. 27, 1931. 13 Claims. (Cl. 89—1.)

12. A device for supplying electrical energy to shells as they are fired from guns, comprising a condenser arranged adjacent the barrel of the gun, a source of electrical current to maintain the condenser properly charged whereby the shell is energized from the condenser when it leaves

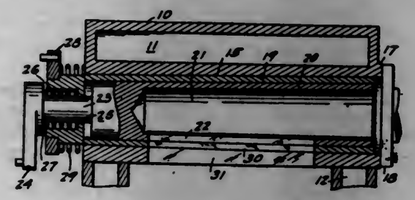


the barrel of the gun, and means for selectively setting the source of electrical current in communication with the condenser.

1,917,815. MOLDING MIXTURE AND METHOD OF PREPARING THE SAME. JOHN H. SCHMIDT, Bloomfield, and RUPERT S. DANIELS, Newark, N. J., assignors to Bakelite Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 11, 1926. Serial No. 147,841. 4 Claims. (Cl. 102—22.)

3. The herein-described solid molding mixture comprising a filling material in intimate and homogeneous admixture with a substantially anhydrous resinous reaction product of a urea and paraformaldehyde, the said resinous reaction product having been formed in the presence of said filling material by subjecting a mixture of urea, paraformaldehyde and a filling material to a mechanical working operation.

1,917,816. VALVE. WILLIAM H. D. SPEARS, Walnut Creek, Calif. Filed Mar. 31, 1931. Serial No. 526,660. 3 Claims. (Cl. 123—190.)

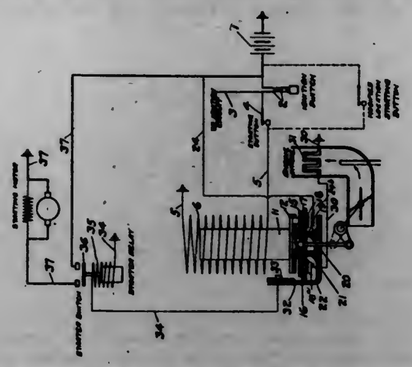


1. Securing means for tapered telescoping valves comprising a spring coperating between a cylinder block and the outer valve member to urge the outer valve member into a tapered bore formed in the cylinder block and a second spring cooperating between the outer and inner valve members for urging the inner valve member into a tapered bore formed in the outer valve member.

1,917,817. ENGINE STARTER CONTROL. CARL D. TURNER, Indianapolis, Ind., assignor to The H. T. H. Corporation, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 30, 1931. Serial No. 577,984. 6 Claims. (Cl. 123—179.)

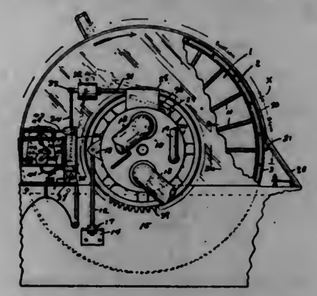
1. An electro mechanical hydraulic control device for internal combustion engines, comprising a movable switch operating element, an electrical means for moving the switch operating element, a circuit including a fuel heater, a circuit including an engine starter, a switch

in the heater circuit, and a switch in the starter circuit, said switch operating elemept functioning the switch operation in the sequence of closing the heater circuit,



opening the heater circuit, closing the starter circuit, opening the starter circuit, closing the heater circuit and opening the heater circuit.

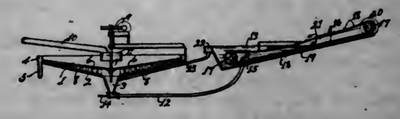
1,917,818. VALVE FOR ROTARY FILTERS. SELIM E. WOODWORTH, San Francisco, Calif., assignor to Hamilton, Beauchamp & Woodworth, San Francisco, Calif., a Copartnership consisting of E. M. Hamilton, F. A. Beauchamp, and S. E. Woodworth. Filed Nov. 23, 1931. Serial No. 576,653. 12 Claims. (Cl. 210—192.)



1. In a continuous type filter carrying separate compartments through a liquid to be filtered, means for applying suction to the compartments for forming a filter cake upon the filter during a portion of their travel, means for applying a fluid pressure from within the compartments outward against the filter cake at another portion of the travel, and means for making a relatively rapid shift from suction to pressure of the compartments at the transition point in the travel of said comparements said means being operative for making said shift at a rate of speed independent of the rate of travel of the compartment.

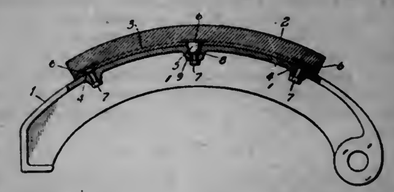
1,917,819. PROCESS AND APPARATUS FOR REMOVING SOLIDS FROM LIQUIDS. JAMES A. BARR, Mountpleasant, Tenn., assignor to International Agricultural Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 29, 1930. Serial No. 478,590. 5 Claims. (Cl. 209—18.)

1. The process which comprises introducing a mixture of liquid and solid particles into a first settling sone, where slow settling particles rise and overflow and where fast settling particles settle out and pass into a smaller consolidating sone where said fast settling particles collect as a column of relatively dense pulp, removing a regulated quantity of said settled particles from said column with a relatively small amount of liquid, transferring



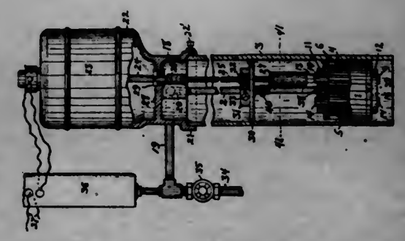
it into a second settling zone, and returning the overflow from said second zone to the upper portion of said smaller zone at a point above said relatively dense column of pulp.

1,917,820. BRAKE MEMBER. TRACY F. BRACKETT, Highland Park, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a Corporation of Ohio. Filed Dec. 4, 1931. Serial No. 578,919. 6 Claims. (Cl. 188—234.)



1. The combination of a metal brake member and a composition lining detachably mounted thereon, said composition brake lining having expanded metal reinforcement embedded therein and also having at least partially embedded therein interiorly threaded ferrules which extend through the meshes of such metal and have heads which overlap the strands thereof, screws cooperating with the threads of said ferrules to clamp said lining against said brake member, and means for resisting circumferential stresses caused by braking action, said means comprising a radially disposed part whose side engage both said lining and said member.

1,917,821. PUMP. CLEMENT G. BRANSTRATOR, Fort Wayne, Ind. Filed Oct. 19, 1931. Serial No. 569,561. 2 Claims. (Cl. 103—119.)



1. A pumping mechanism consisting of a pedestal adapted to seat upon a well tube, a gear pump having a discharge pipe pendently connecting it with said pedestal, a motor mounted upon said pedestal the armature shaft of which is alined with one of the gears of said pump, a line shaft connecting said armature shaft with the said gear, and a supporting means secured to said discharge pipe and having a bearing through which said line shaft extends and rotates and adapted to fit within said well tube whereby said line shaft is sustained in proper alinement between the motor and said pump gear.

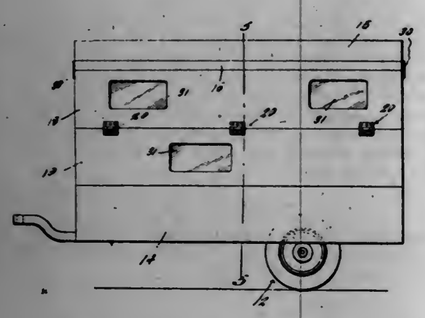
1,917,822. METHOD OF SEPARATING CHLORONAPHTHALENES. EDGAR C. BRITTON and WILLIAM R. REED, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed May 21, 1930. Serial No. 454,803. 12 Claims. (Cl. 260—161.)

1. The method of separating alpha-and beta-chloronaphthalenes from a mixture of said compounds in noneutestic proportions, which mixture may also contain a volatile and substantially inert organic solvent, which comprises crystallising one of the isomeric chloronaphthalenes by cooling the mixture, separating the crystals from the liquid, adjusting the quantity of organic solvent in the mother liquor to such proportion that the isomer which remained dissolved during the above described crystallization is least soluble of the two isomers remaining in the said mother liquor, and cooling the resultant solution to crystallize the second isomer.

1,917,823. METHOD FOR MANUFACTURE OF CYCLOHEXYLPHENOLS. EDGAR C. BRITTON and RALPH P. PERKINS, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Oct. 23, 1931. Serial No. 570,654. 22 Claims. (Cl. 260—154.)

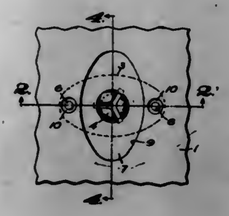
1. The method of making a cyclohexylphenol, which comprises reacting a monohydric phenol with a cyclohexenic source-material in the presence of a siliceous catalyst.

1,917,824. VEHICLE BODY. WILLIAM ALDEN BURNS, Grand Rapids, Mich. Filed July 30, 1932. Serial No. 626,875. 2 Claims. (Cl. 296—23.)



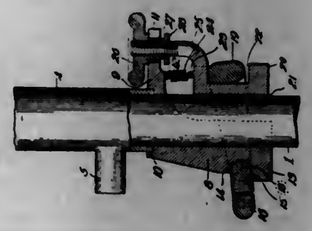
1. A trailer comprising a wheel supported base portion including a bottom and a surrounding upstanding rigid rim defining a storage receptacle, end walls made up of panels hingedly connected to the end walls of said rim and swingable down into the receptacle, a top, side walls comprising companion panels hingedly connected together at their meeting edges and having their opposite edges hingedly connected to the top and side walls of the rim respectively, whereby to permit said side wall panels to swing down into the receptacle and to allow the top to rest firmly and directly on the sides of said rim, said top having a depending rim, the end portions of which have their lower edges located above the plane of the lower edges of the side portions thereof and the end portions of the rims of the bottom having their upper edges located below th plane of the upper edges of the side portions of said bottom rim, whereby spaces are formed in the ends of the device when the rim of the top is resting on the rim of the bottom to receive the ends of the folded side walls and flaps connected to the end parts of the top rim for closing said spaces when the top rim is resting on the bottom rim.

1,917,825. SEPARABLE SNAP FASTENER INSTALLATION. MOSES F. CARR, Lexington, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed Nov. 7, 1930. Serial No. 494,021. 8 Claims. (Cl. 45—138.)



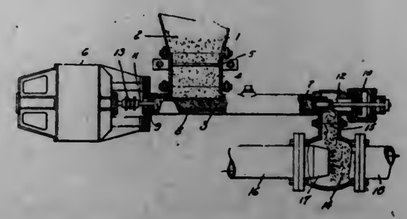
1. A snap fastener installation comprising, in combination, a relatively rigid fastener-carrying structure having an elongated aperture, a flexible covering material applied to said structure to cover the aperture at one side and a snap fastener member attached to said fastener-carrying structure by entrance through the aperture at that side of the structure at which the aperture is exposed, said snap fastener member comprising a base part elongated in one direction and turned to engage said structure at that side adjacent to the covering material to secure the snap fastener member to the said fastener-carrying structure and interengaging means provided partly by the elongated base part and partly by the fastener-carrying structure to prevent accidental turning of the base part to a withdrawal position after it is engaged behind said structure.

1,917,826. SHORE. EARL C. CHILDERS, Kansas City, Mo., assignor to John K. Thompson, Kansas City, Mo. Filed Feb. 4, 1929, Serial No. 337,360. Renewed Jan. 18, 1932. 4 Claims. (Cl. 248—2.)



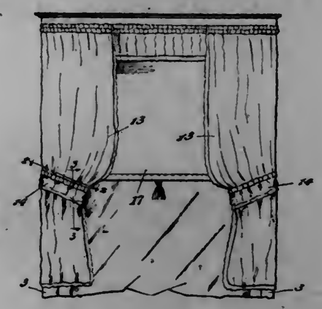
1. In a shore, a fixed lower member, an upper member fitting telescopically on the lower member, a depending extension for the upper member fitting at its upper end entirely around the lower member and at its lower end partly around the lower member, and provided in its lower portion with a pivot groove; said extension having an outwardly projecting arm at its upper end at the opposite side of the lower member from said groove, a jaw underlying said arm and disposed adjacent the lower member at the diametrically opposite side thereof from said groove and provided with a threaded arm extending up through said arm of the said extension, a nut bearing upon said extension and rotatable relative thereto and engaging said threaded arm, and a lever pivoted in the pivot groove and fitting around the lower member and engaging the said jaw for clamping the latter against the lower member.

1,917,827. APPARATUS FOR DELIVERING PULVERIZED MATERIAL. WILMOT D. CLOOS, South Orange, N. J., assignor, by mesne assignments, to Edison Cement Corporation, West Orange, N. J., a Corporation of New Jersey. Filed July 17, 1929. Serial No. 378,890. 3 Claims. (Cl. 198—64.)



1. In apparatus of the class described, the combination with a screw conveyor, of a disc mounted in fixed position contiguous the discharge end of said conveyor, said disc having a plurality of annularly extending orifices which are narrow as compared with the thickness of the disc, a disc rotatably mounted contiguous and substantially coaxial with said fixed disc, said rotatable disc having orifices similar to the orifices in said fixed disc and adapted to register therewith upon rotation of the rotatable disc.

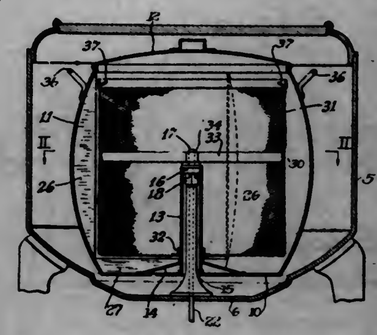
1,917,828. CURTAIN FIXTURE. CLAUDE C. COEN, Culver, Oreg.; Maggie L. Coen administratrix of said Claude C. Coen, deceased. Filed Nov. 5, 1931. Serial No. 573,257. 6 Claims. (Cl. 156—83.)



3. A device for the purpose set forth comprising a resilient holding bracket adapted to be secured upon a window frame, a tieback support constructed at one end with a journal to engage horizontally in and be frictionally held by the holding bracket and having its major portion extending across the window frame from said end at a right angle thereto whereby it may rock in a vertical plane, and an extension slidably engaged in the tieback support.

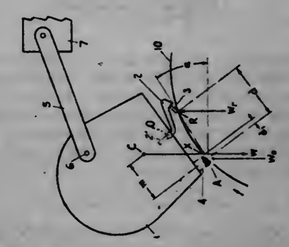
1,917,829. DISHWASHING ATTACHMENT. CLIFFORD E. COLE, Birmingham, Ala., assignor to Nineteen Hundred Corporation, Binghamton, N. Y., a Corporation of New York. Filed Feb. 14, 1931. Serial No. 515,688. 3 Claims. (Cl. 141—9.)

2. The combination with a washing machine of the agitator type having a tub and an oscillatory agitator shaft projecting up from the bottom of the tub; of a unitary dishwashing attachment removably mounted within the tub, said attachment comprising a water receptacle, a central sleeve rigid with and projecting upwardly from the bottom of the receptacle, said sleeve being open at its lower end and fitting over said shaft in the act of placing the receptacle in said tub, means providing a driving connection between said sleeve and the upper end of said



shaft, and a dish-supporting basket within said receptacle rotatably supported by the upper end of said sleeve and adapted to remain relatively stationary during oscillation of said shaft.

1,917,830. APPARATUS FOR RECORDING SOUNDS. ORVILLE M. DUNNING, Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a Corporation of New Jersey. Filed July 10, 1930. Serial No. 466,901. 6 Claims. (Cl. 274—29.)

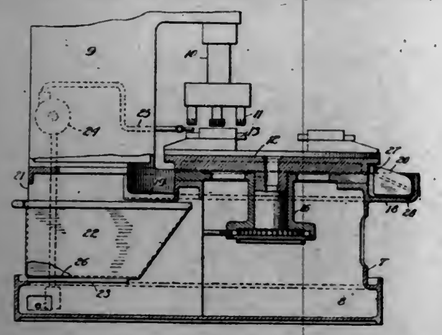


1. A sound recorder unit comprising, in combination, a frame, a stylus vibratably carried by said frame for contact with a record, means associated with said stylus for imparting thereto vibrations to be recorded, and an advance ball mounted upon said frame for contact with said record, said advance ball and said stylus being located on opposite sides of a vertical line passing through the center of gravity of said unit.

1,917,831. MACHINE TOOL. WALTER M. FAIRBAIRN, Rockford, Ill., assignor to Barnes Drill Company, Rockford, Ill., a Corporation of Illinois. Filed July 24, 1930. Serial No. 470,301. 1 Claim. (Cl. 77—68.)

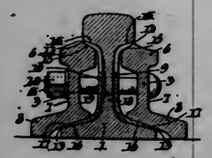
In a machine tool of the class described, a hollow base elongated in a front to rear direction, a circular work table rotatably mounted forwardly of the base, an upright column rising from the rear of the base, a cutting tool supported by the column above the table, an annular trough rigid with the base and disposed below the peripheral edge of the table, a chip sweeping arm secured to the table extending outwardly therefrom and depending into said trough so as to engage and sweep along the

trough chips discharged from the table, said base having an opening in one side, and a chip pan inserted through said opening and having a normal position beneath the



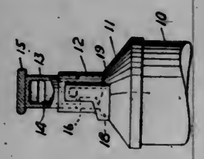
column, said trough having an opening therein rearwardly of the table to permit the discharge of chips by said arm into said pan.

1,917,832. RAIL JOINT. ROBERT FARIES, St. Davids, Pa. Filed July 25, 1932. Serial No. 624,479. 12 Claims. (Cl. 238—244.)



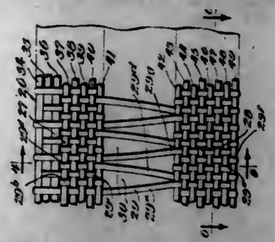
1. In a rail joint, the rails and joint bars, and a spring shim therebetween having a wedge-shaped tongue interposed in the fishing space between a bar and a rail, said shim being distorted from natural shape incident to the drawing together of the bars when the joint is assembled, whereby said tongue is constantly urged outwardly across said fishing space.

1,917,833. COLLAPSIBLE TUBE STRUCTURE. HENRY B. FINLEY, Pennington, N. J. Filed Dec. 15, 1931. Serial No. 581,128. 4 Claims. (Cl. 221—60.)



4. A feeding device for use with collapsible tubes including in combination a neck having an opening therethrough, a cap structure slidably mounted in said neck and having an opening therein adapted to be wiped in an intermediate position of its movement by said neck, a chamber formed in the wall of said neck and closed to the exterior of said device an dextending axially of said neck, a second chamber formed in the wall of said neck and closed to the exterior of said device and extending partially circumferentially of said neck and communicating with said other chamber, and means on said cap structure slidably enclosed in said chambers and positioning said cap structure relative to said neck.

1,917,834. GASKET. WILLIAM R. GILLIES, Chicago, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 25, 1931. Serial No. 525,174. 15 Claims. (Cl. 154—45.5.)

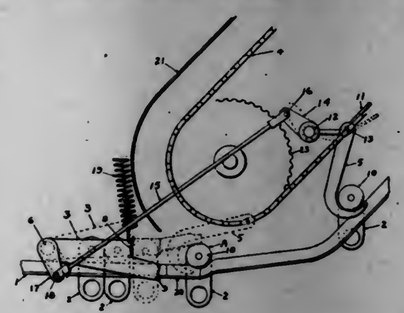


1. In a gasket, the combination of a woven fabric member having a pair of longitudinally extending woven bodies, and a plurality of threads joining said woven bodies and forming a tape of predetermined width, said threads being adapted to be spread to pass bolts or studs.

1,917,835. DIRECT-DEVELOPED AZO DYES. ERNEST F. GRETHER, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Feb. 9, 1931. Serial No. 514,707. 21 Claims. (Cl. 260—95.)

6. As a new compound, an azo dye produced by coupling diazotized 3.4-dichloro-aniline with a hydroxynaphthoic acid arylide of an amino-aromatic ether of the benzene series.

1,917,836. CONTROL MONORAIL CAR APPARATUS. CHARLES S. HADDLESAY, Elmhurst, Ill. Filed Mar. 6, 1931. Serial No. 520,735. 5 Claims. (Cl. 104—91.)

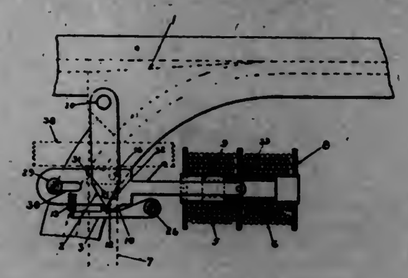


1. Apparatus for handling monorail suspension cars comprising an inclined track section along which the cars travel by gravity, a traveling conveyor adjacent said track section having car pick-up devices mounted in spaced relation thereon, and means controlled by the movement of the conveyor for delivering the cars one at a time from the inclined track section to the pick-up devices, said delivering means comprising a member movable to one position to permit the waiting cars to advance a step and movable to another position to release the foremost waiting car and prevent movement of the following cars.

1,917,837. SWITCH OPERATING MEANS. CHARLES S. HADDLESAY, Elmhurst, Ill. Filed Apr. 6, 1931. Serial No. 527,918. 3 Claims. (Cl. 104—104.)

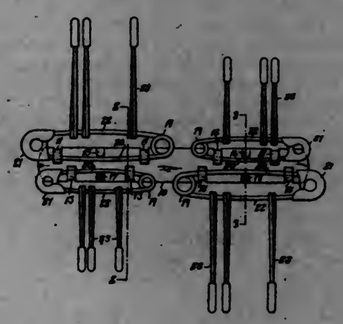
1. A switch construction for an overhead, suspended load, monorail conveyor system comprising an oscillatable car deflecting switch member, a rock arm for operating said switch member, locking means for locking the rock arm in two different positions to hold the switch member

in two different positions, a plunger movable back and forth for operating said rock arm, said plunger having provisions for releasing said locking means from both locking positions and having a lost-motion connection with said rock arm enabling the lock-releasing movement to be effected without moving the rock arm, a solenoid construction for operating said plunger comprising a coil for



moving the plunger in one direction and another coil for moving the plunger in the opposite direction, and a manually-operable lever for operating said plunger to cause the operation of the rock arm having a lost-motion connection with respect to said plunger to enable the plunger to be actuated by the solenoid without actuating the manually-operable lever.

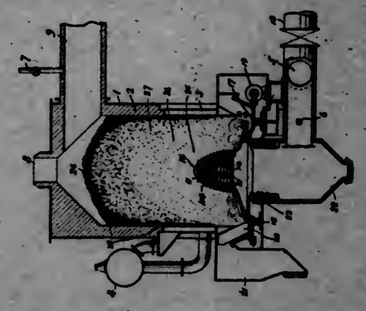
1,917,838. SAFETY PIN HOLDER. ALBERT HAGEL, Newark, N. J., assignor to Consolidated Safety Pin Company, Bloomfield, N. J., a Corporation. Filed July 25, 1932. Serial No. 624,540. 2 Claims. (Cl. 206—66.)



2. A safety-pin holder comprising a strip of metal having a pair of spaced hooks projecting outwardly from one face of the said strip, the strip also formed with a lug projecting outwardly between said hooks combined with a safety-pin bearing in said hooks and interlocked therewith by said lug.

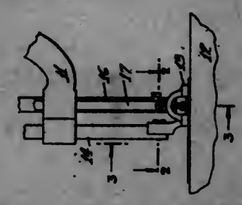
1,917,839. MECHANICAL GRATE FOR GAS GENERATORS. JOHN S. HAUG, Philadelphia, Pa., assignor to United Engineers & Constructors Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Dec. 7, 1928. Serial No. 324,437. 13 Claims. (Cl. 48—66.)

2. In combination a water gas generator adapted to contain a fuel bed, means for supplying air and steam for blasting said fuel bed upwardly, means for down steaming the fuel bed and means for providing a shorter path for said blast through the center of said fuel bed than through the sides thereof, said means comprising a central rotary tuyère having a plurality of ports therein confined to the central area of the fuel bed with respect to its periph-



ery to cause passage of gas in either direction as freely as possible and an imperforate outer portion attached thereto, and blades attached to said outer portion.

1,917,840. SEWING MACHINE. GEORGE A. HEADTKE, St. Albans, N. Y., assignor to C. R. Daniels Inc., New York, N. Y., a Corporation of New York. Filed Dec. 21, 1931. Serial No. 582,871. 3 Claims. (Cl. 112—212.)



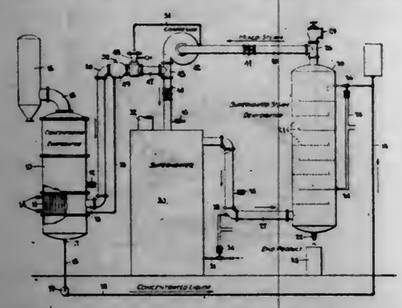
1. A presser foot for use in stitching cordage to fabric comprising a pair of parallel members resting on the fabric and connected by spaced, arched members through which the cordage passes and points on said arched members arranged to engage said cordage during the feed movement of the fabric and cordage.

1,917,841. METHOD OF AND APPARATUS FOR EVAPORATING SOLUTIONS. BURTON S. HUGHES, WILLIAM H. EGGERT, and STANLEY HUGHES, Buffalo, N. Y., assignors to Zaremba Company, Buffalo, N. Y. Filed June 26, 1930. Serial No. 464,040. 11 Claims. (Cl. 159—16.)

1. The method of evaporating solutions which comprises subjecting the solution to a preliminary evaporation by means of heat transfer from a non-contacting body of steam, withdrawing the liquid so treated to a second zone of evaporation and therein further evaporating the solution by directly contacting the solution with superheated steam of predetermined and substantially constant energy content, removing from the second zone of evaporation a mixture of expended superheated steam and steam generated from the solution, dividing the removed steam into two portions, one of which corresponds to the steam evolved from said solution in said second zone, returning said portion to said first named step of evaporating to effect the preliminary evaporation of the solution, and automatically regulating the flow of solution from the region of preliminary evaporation to said second named zone in accordance with a predetermined temperature in the second zone of evaporation to maintain the rate of evaporation substantially constant and uniform.

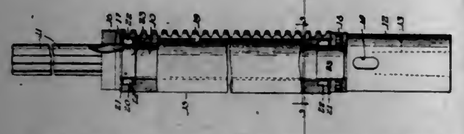
7. In a method of evaporating solutions wherein the solution is caused to flow counter to the flow of super-

heated steam and in contact therewith, the step which comprises regulating automatically the quantity of solution entering into contact with the steam in proportion



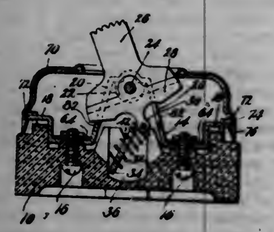
to the temperature of the evaporating solution at a point in the evaporating system adjacent the discharge of the evaporated solution from the evaporator system.

1,917,842. DRILLING MACHINE SPINDLE. ALBERT M. JOHNSON, Rockford, Ill., assignor to Barnes Drill Company, Rockford, Ill., a Corporation of Illinois. Original application filed Oct. 10, 1929, Serial No. 398,709. Divided and this application filed Mar. 27, 1931. Serial No. 525,718. 1 Claim. (Cl. 77—5.)



A spindle structure for drilling machines and the like comprising a spindle, a sleeve having an internal diameter only slightly greater than the spindle, means on the spindle coacting with opposite ends of the sleeve to hold it against longitudinal movement but permitting relative rotation, said sleeve having a pair of internal annular grooves respectively formed at opposite ends, and roller bearings held in circumferentially spaced relation in said grooves and bearing directly against the peripheral walls of the grooves and against the adjacent peripheral surfaces on the spindle, said spindle and sleeve being made of an alloy steel hardened throughout their lengths by a non-warping process such as nitriding.

1,917,843. WALL SWITCH. FRANK E. JOHNSON, New Bedford, Mass., assignor to John I. Paulding, Inc., New Bedford, Mass., a Corporation of Massachusetts. Filed May 16, 1929. Serial No. 363,521. 10 Claims. (Cl. 200—67.)



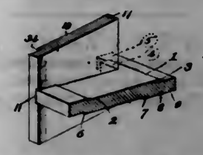
10. An electric switch having, in combination, a recessed insulating body, a frame straddling said recess, a pair of fixed contacts straddling said frame and insulated therefrom, means for fastening said contacts to said insulating body to hold said contacts and said frame fixed in position, a switch mechanism for bridging said fixed contacts and a cover provided with locking projections for engaging the ends of said frame to lock the cover thereon.

1,917,844. HOLSTER. JAMES I. KEITH, Detroit, Mich. Filed Oct. 8, 1930. Serial No. 487,106. 2 Claims. (Cl. 224—2.)



1. In a holster of the class described, an elongated gun receiving portion open throughout the major portion of one of its long sides; resilient reinforcing members extending longitudinally of said open side and adapted for pressing at one end said open side of said portion into the trigger guard of a gun inserted therein.

1,917,845. WINDOW FRAME. THOMAS A. KEMP, Kansas City, Mo., assignor to The Long-Bell Lumber Company, Kansas City, Mo., a Corporation of Missouri. Filed Aug 25, 1930. Serial No. 477,631. 2 Claims. (Cl. 20—11.)



1. In a window construction, a sill having an inner longitudinal shoulder facing outwardly and provided at each outer corner with a pair of longitudinally-extending parallel horns, the inner horns terminating short of the outer horns and being flush at their upper sides with the upper surface of the sill and having unbroken connection therewith, and the outer horns having upper surfaces lower than the inner ones and the upper surface of the sill outward of the inner horns.

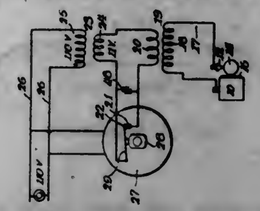
1,917,846. GAS PRESSURE APPARATUS. PAUL E. KLOPSTEG, Chicago, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed May 11, 1929. Serial No. 362,343. 11 Claims. (Cl. 35—12.)



1. In a device of the class described, tubular means including a closed volume arm, an open manometer arm, said arms being structurally separate, a metallic cistern closed except for a passage directly connecting with said means and forming a connection between said arms, and micrometric means for varying the capacity of the cistern.

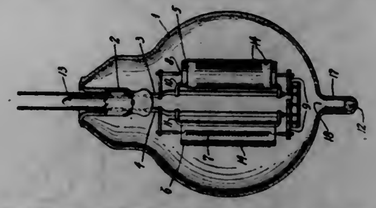
1,917,847. SPARK APPARATUS. PAUL E. KLOPSTEG, Chicago, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed May 22, 1929. Serial No. 365,156. 1 Claim. (Cl. 73—51.)

In a device of the class described, a pair of spaced vertical conductors, a drop, means to support the drop in a position to fall when released, alongside the conductors, and means for creating a high potential difference between the conductors at equal intervals of time comprising a spark coil having its secondary connected with the vertical conductors, a low potential circuit including the primary of the spark coil and a switch, and means for controlling



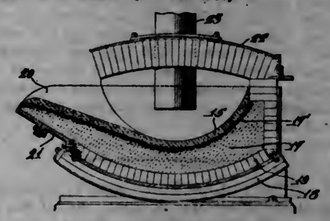
the circuit including a synchronous motor and an angularly adjustable cam driven by the motor and cooperating with the switch to break the low potential circuit at the peak of the wave, the synchronous motor and the primary of the spark coil being energized from a common source of alternating current.

1,917,848. ULTRA-VIOLET LAMP. JOHN WESLEY MARDEN and HARVEY CLAYTON RENTSCHLER, East Orange, N. J., assignors to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Nov. 21, 1930. Serial No. 497,132. 8 Claims. (Cl. 250—35.)



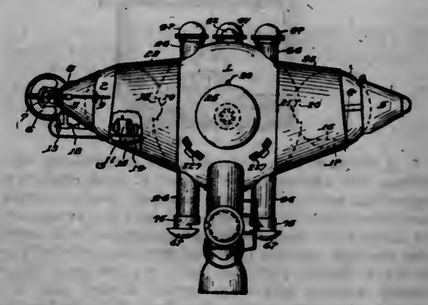
1. A gaseous conduction device of the glow discharge negative glow type comprising an enclosing vitreous envelope permeable at least in part to ultra-violet radiation, spaced thermionically active electrodes of the indirectly heated type, the heater elements thereof being electrically connected in series, and in electrical parallel relation to the thermionically active elements of said cathodes, and substantially only mercury vapor at pressures ranging from .001 to .08 millimeters of mercury.

1,917,849. REFRACTORY LINING. EDWIN FITCH NORTHRUP, Princeton, N. J., assignor to Ajax Electrothermic Corporation, Ajax Park, N. J., a Corporation of New Jersey. Filed July 26, 1930. Serial No. 470,860. 8 Claims. (Cl. 13—35.)



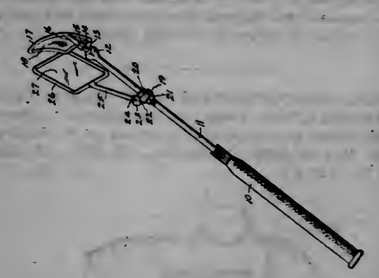
1. In a container for a molten metal charge, a structural support, a sinterable refractory within the support and a self supporting non-metallic shield within the refractory adapted to be destroyed at the temperature of the molten metal but having stamina against the destroying effect of the hot metal sufficient to preliminarily act as a shield and perform the sintering function.

1,917,850. SUBMERSIBLE APPARATUS FOR THE RESCUE OF THOSE ENTOMBED IN SUNKEN VESSELS. MATTHEW PALISCA, Oaklyn, N. J. Filed Dec. 27, 1928, Serial No. 328,728. Renewed Feb. 18, 1931. 13 Claims. (Cl. 61—69.)



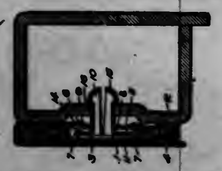
12. In a device for rescuing a crew from a sunken submarine having a protruding escape hatch, the combination of a hollow water-tight submersible vessel, a large non-collapsible tube having a rigid portion extending vertically within said vessel and having a transversely flexible portion extending below said vessel into the surrounding sea, the lower end of said tube being open and expansible to a diameter greater than that of said protruding hatch and contractable to a diameter to fit tightly around said hatch, means operable from within said vessel to move said vessel and to thereby telescopically slide said open end of said tube over said protruding hatch, means operable from within said vessel and extending downwardly within said tube to expand the open end of said tube and to contract it around and against said hatch, a water-tight port affording a passageway from the interior of said vessel and into and out of said tube when the lower end of said tube is tightly fitted around said protruding hatch, said tube affording access within said tube to the closure of said protruding hatch and affording an escape passage for the imprisoned crew through said hatch into said tube and thence into the interior of said submersible vessel when said hatch on said submarine has been opened from within said tube.

1,917,851. DENTAL INSTRUMENT. MITCHELL M. PAULS, Dallas, Tex. Filed May 9, 1930. Serial No. 450,985. 8 Claims. (Cl. 250—84.)



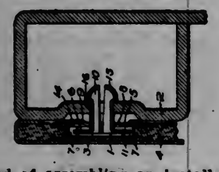
1. In a dental fluoroscope, an elongated stem having a handle at one end thereof, an enlarged open frame extending from the other end of the stem and at an angle thereto, a fluorescent screen carried by said frame, and an enlarged reflector adjustably mounted with relation to said frame and adapted in close proximity thereto, whereby said reflector may be adjusted with relation to said frame for reflecting an image on the screen to a desired point of visibility.

1,917,852. SNAP FASTENER AND FASTENER INSTALLATION. ROBERT M. PEEZ, Lansing, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed Feb. 21, 1930. Serial No. 430,360. 5 Claims. (Cl. 24—213.)



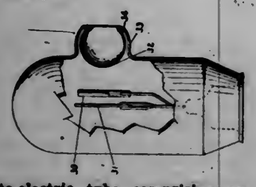
1. A fastener unit comprising, in combination, an attaching part adapted to be secured in fixed relation to a supporting structure, a snap fastener member having a base assembled with said attaching part and having means for cooperative snap fastening engagement with another snap fastener member, interlocking means provided partly by the attaching part and partly by the snap fastener member whereby said snap fastener member may be assembled with and disassembled from the attaching part while it is secured to the supporting structure, and said interlocking means including a plate portion provided by the attaching part and having an aperture therethrough of fixed dimensions, and said base having a notch therein to permit engagement of the snap fastener member base beneath the plate portion only by relative rotation.

1,917,853. FASTENER INSTALLATION. ROBERT M. PEEZ, Lansing, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Original application filed Feb. 21, 1930, Serial No. 430,360. Divided and this application filed Dec. 15, 1931. Serial No. 581,161. 3 Claims. (Cl. 45—138.)



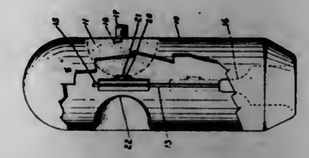
1. The method of assembling an installation including a supporting structure made up of several layers of material and a quick detachable fastener member having a base embedded within the layers of material of the supporting structure which comprises assembling the layers comprising the supporting structure and thereafter forcing the base of the fastener into embedded relation with the supporting structure by rotation only.

1,917,854. PHOTOELECTRIC TUBE. HARVEY CLAYTON RENTSCHLER, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed May 6, 1929. Serial No. 360,666. 13 Claims. (Cl. 250—27.5.)



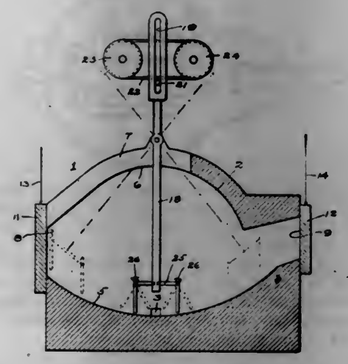
1. A photo-electric tube comprising an envelope, an anode and a cathode therein, said cathode being composed of thorium and a window in said envelope opposite said cathode more transparent to ultra-violet light than the remainder of the envelope.

1,917,855. PHOTO-ELECTRIC TUBE. HARVEY CLAYTON RENTSCHLER, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed May 6, 1929. Serial No. 360,667. 12 Claims. (Cl. 250—27.5.)



1. A photoelectric tube comprising an envelope, an transparent to ultra-violet light, a leading-in wire sealed through a wall of said envelope, an anode opposite said leading-in wire and a photo sensitive cathode, said cathode comprising a deposit of a metal of the cerium group of rare earth metals, on said envelope, in contact with said leading-in wire.

1,917,856. APPARATUS FOR METAL WORKING. JOHN SCHMELLER, Sr., Lakewood, Ohio, assignor to Schmeller Holding Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 31, 1930. Serial No. 440,506. 5 Claims. (Cl. 263—23.)

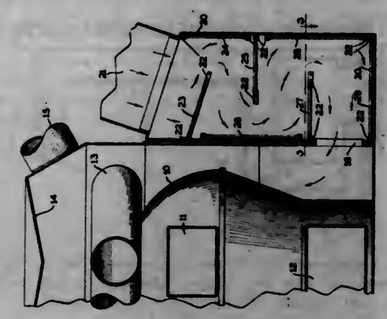


1. An apparatus of the character described having in combination a furnace chamber having a receptacle for molten metal at the base thereof formed on a predetermined radius of curvature, a roof portion adapted to confine reducing gases above the molten metal in said furnace base, an agitating member pivotally associated with said roof portion and adapted to be moved upon a corresponding radius of curvature to said base portion and in uniformly spaced relation thereto, said agitating member including a pair of spaced apertured grids pivotally mounted and adapted to swing to an angular position in each direction of motion.

1,917,857. DUST COLLECTOR. ALVA L. SEARLES, Grand Rapids, Mich. Filed Mar. 9, 1931. Serial No. 521,147. 2 Claims. (Cl. 183—107.)

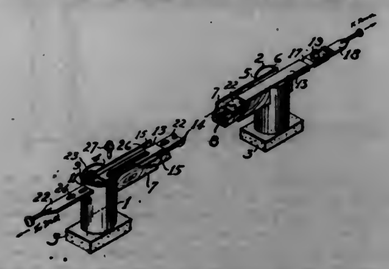
1. In a heating system having a right angled conduit adapted to carry an air stream therethrough, said air stream being of a temperature below 150° F., the combination of, a door pivotally mounted in the conduit so as to extend across the outer corner of the angle of said conduit when it is closed, said door swinging outwardly, a flexible non-perforate sheet of material on the inner face of the door, a viscous substance spread over one face of the sheet of material, said viscous material having a

CARNEGIE LIBRARY OF ATLANTA



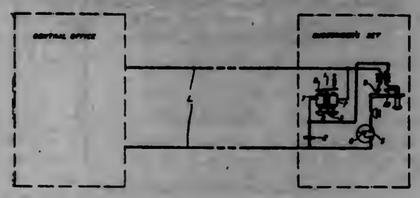
melting point above 150° F., and means fastened to the inner side of the door, said means being adapted to engage the sheet of material to secure the same in place.

1,917,858. POWER COUPLING DEVICE. ALSON R. SKINNER, Cox City, Okla. Filed Jan. 28, 1931. Serial No. 511,797. 2 Claims. (Cl. 74—17.)



1. Means for transmitting reciprocating movement to a well pump, comprising a fixed guideway, a coupling assembly reciprocably disposed in the guideway, the assembly including a sleeve adapted to be connected to a source of power, a tongue a portion of which projects into the sleeve and is adjustable longitudinally of the sleeve, the tongue having a plurality of longitudinally spaced openings, the sleeve having a slot aligned with the openings and elongated to overlap a plurality of the openings, and a pin detachably engaging one of the openings and a portion only of the slot.

1,917,859. TELEPHONE SYSTEM. LELAND J. STACY, Caldwell, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 21, 1931. Serial No. 558,445. 6 Claims. (Cl. 179—84.)



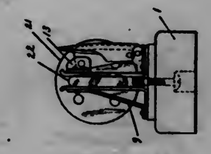
1. In a telephone system, a single party line connecting a subscriber's set with a central office, means at said central office for applying current of a signaling frequency to said line, means for applying current of a dialing frequency to said line, and a biased ringer at said subscriber's set permanently bridge across line and mechanically tuned to be responsive at said signaling frequency and non-responsive at said dialing frequency.

1,917,860. ELECTRICAL FUSE PLUG SUPPORT. GEORGE E. WADSWORTH, Erlanger, Ky., assignor to The Earl Electric Mfg. Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 22, 1931. Serial No. 510,428. 14 Claims. (Cl. 200—134.)



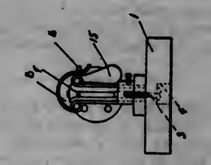
1. A receptacle for cartridge fuses comprising a pair of spaced permanently secured brackets having resilient spring members movably mounted therein, said spring members having semi-circular fuse receiving portions and side walls for making contact with the permanently secured brackets.

1,917,861. FUSE MOUNTING BLOCK. GEORGE E. WADSWORTH, Erlanger, Ky., assignor to The Earl Electric Mfg. Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 22, 1931. Serial No. 510,429. 5 Claims. (Cl. 200—134.)



1. A fuse cut out base having spaced pairs of contact jaws, and having clamping devices associated with one of the jaws of each pair for insuring uniform surface bearing of said jaws on the sides of the blades of a knife-blade contact type cartridge fuse, and said clamping devices comprising toggle links with a lever handle arranged to straighten out said toggle links after the insertion of the blade of the fuse.

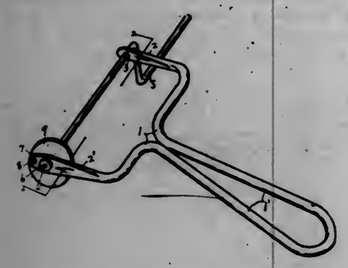
1,917,862. FUSE MOUNTING BLOCK. GEORGE E. WADSWORTH, Erlanger, Ky., assignor to The Earl Electric Mfg. Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 22, 1931. Serial No. 510,430. 11 Claims. (Cl. 200—134.)



1. A device for clamping together the contact jaws of a fuse contact base, comprising a support, a cover hinged thereto, lugs extending from said support for interlock-

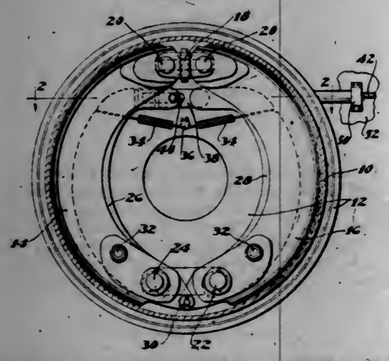
ing around said jaws, a latch member having eccentrically mounted means for engaging said cover and thereby drawing together the outer ends of said jaws.

1,917,863. BREAKER POINT GRINDER. HERBERT H. WALTERS, Syracuse, N. Y. Filed Jan. 18, 1932. Serial No. 587,312. 3 Claims. (Cl. 51—170.)



1. In a breaker point grinder, a supporting frame having an arm provided with an aperture for receiving one of the breaker points, a rotary shaft operable at will journaled in said arm, and a grinding disk secured to the shaft and extended across said aperture in close proximity to said arm and adapted to be interposed between the breaker points during its rotation.

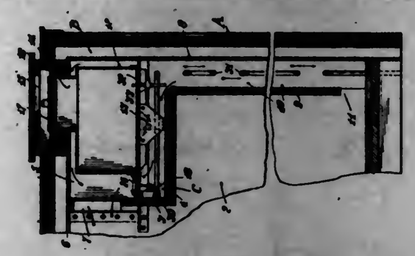
1,917,864. BRAKE. WILLIAM S. WATTS, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois. Filed Nov. 22, 1930. Serial No. 497,390. 6 Claims. (Cl. 188—78.)



1. A brake comprising a drum and a backing plate forming a brake chamber between them and having friction means and two operating members therefor pivoted on and carried by the friction means and arranged within said brake chamber, in combination with a conduit passing through the backing plate and operatively connected to one of said members, and force-transmitting means in the conduit acting on the other of said members.

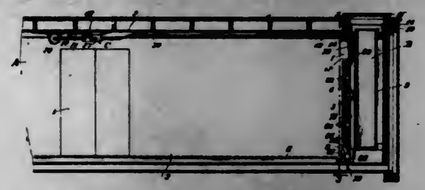
1,917,865. REFRIGERATING APPARATUS FOR RAILWAY CARS. EDWARD C. WOOD, Evanston, Ill., assignor to North American Car Corporation, Chicago, Ill., a Corporation of Illinois. Filed Jan. 18, 1932. Serial No. 587,215. 4 Claims. (Cl. 62—91.5.)

1. In a refrigerating apparatus, a compartment to be refrigerated, a closed container in the compartment for confining solidified carbon dioxide, a fan for circulating air within the compartment in contact with the container, a fluid-pressure motor for driving the fan, a conduit for carbon dioxide gas leading from the container to the motor,



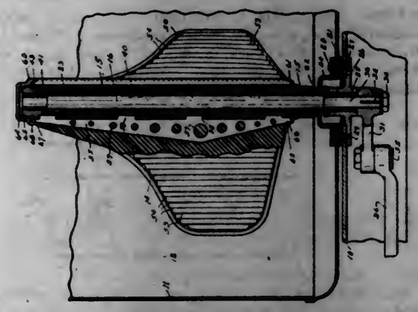
and a cooling coil within the compartment having its inlet connected with the outlet of the motor, and its discharge end leading outside of the compartment.

1,917,866. REFRIGERATOR CAR. EDWARD C. WOOD, Highland Park, Ill., assignor to North American Car Corporation, Chicago, Ill., a Corporation of Illinois. Filed July 11, 1932. Serial No. 621,909. 18 Claims. (Cl. 62—91.5.)



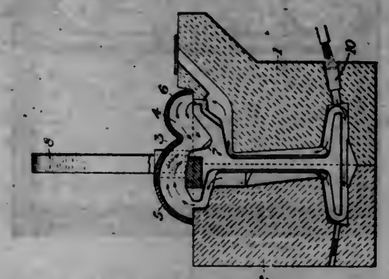
1. In a refrigerator car, a main compartment to be refrigerated, a closed container for confining a quantity of refrigerant which when heat is absorbed thereby evolves gas, a passage through which air may be circulated in contact with the container, said passage having inlet and outlet openings communicating with the main compartment, a closure for one of the openings, and means actuated by fluid under pressure developed in the container for operating the closure.

1,917,867. AGITATOR FOR WASHING MACHINES. PERCY E. BARKER, Towson, Md., assignor to The Cinderella Washing Machine Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Oct. 8, 1930, Serial No. 487,189. Divided and this application filed Sept. 1, 1931. Serial No. 560,578. 8 Claims. (Cl. 259—101.)



1. An agitator for a washing machine, comprising a central supporting body, elongated metallic strips arranged about and parallel to said body and having formations engaging the latter to prevent relative rotation between the body and the strip, flexible agitator blades surrounding and imbedding said metallic strips, and means on said body arranged to embrace the ends of the metallic strips to retain the blades in place on the supporting member.

1,917,868. HOOD FOR WELDING MOLDS. EDWARD F. BEGTRUP, Jersey City, N. J. Filed Apr. 9, 1932. Serial No. 604,207. 2 Claims. (Cl. 22—1.)

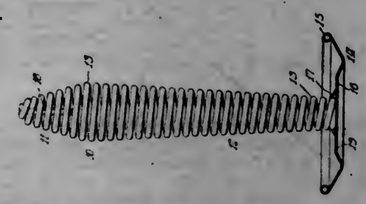


2. A hood for welding molds, comprising end walls having lower marginal edges substantially conforming to the top of the mold and the top surfaces of the rail heads, and a double arched wall forming the sides and top.

1,917,869. RESINOUS MATERIAL FROM PETROLEUM SLUDGE. JOHN C. BIRD, Elizabeth, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Oct. 16, 1931. Serial No. 569,356. 8 Claims. (Cl. 260—2.)

1. The method of forming resinous material from the sludge obtained in the treatment of petroleum oil with strong sulfuric acid, which comprises heating the sludge, and treating the hot sludge with a halogen.

1,917,870. PESSARY. FRED BLEY, Chicago, Ill. Filed May 27, 1932. Serial No. 613,800. 4 Claims. (Cl. 128—131.)



1. As an improved article of manufacture, the herein described instrument for use as a womb rectifier and support; the same comprising a filament of flexible material providing a spiral arranged to form the wall of an oblong hollow member having one end substantially conical in shape and the other end open, and an annular disc mounted on the open end of said member with its apertured portion in registry with the open end of said member.

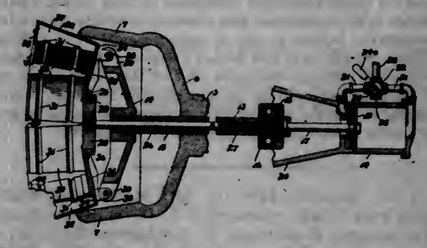
1,917,871. VESTIBULE CAR DOOR. JESSE FRANK BIRT, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 13, 1931. Serial No. 508,469. 1 Claim. (Cl. 189—46.)

In a door of the character described, a frame comprising two opposed pairs of stiles, a lintel connecting said pairs of stiles at their upper ends, a sill connecting the stiles at their lower ends, cross members between the said pairs of stiles and between the stiles of each pair, the inner stiles and certain of the cross members being of less width than the outer stiles and the lintel and defining a window frame opening in the upper portion of said



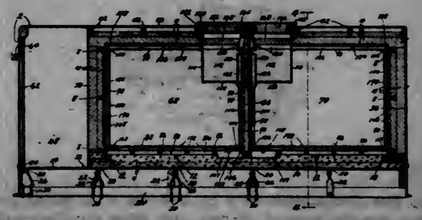
frame, and a sheet metal casing constituting the faces of the door and mounted on the frame, said casing comprising metal facings fitted over the outer stiles with inset marginal areas opposite the inner stiles and cross members and secured thereto.

1,917,872. CENTRIFUGAL CASTING MACHINE. DONALD J. CAMPBELL, Muskegon, Mich., assignor to Campbell, Wyant & Cannon Foundry Company, Muskegon, Mich., a Corporation of Michigan. Filed Nov. 9, 1931. Serial No. 573,949. 3 Claims. (Cl. 22—65.)



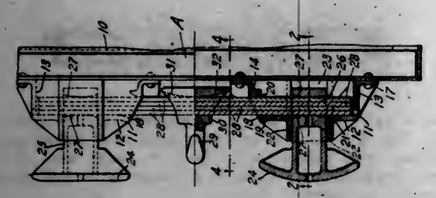
3. In a construction of the class described, a rotatably mounted head having an open side the inner sides of said head being tapered inwardly, a drum holding fixture comprised of a series of segments located around the axis of said head, means for rotating the head, means for simultaneously drawing all of the segments of said fixture inwardly into the head, the outer sides of said segments having sides inclined to correspond to the taper of the inner sides of said head whereby the same are brought together to provide a drum holding fixture, and means for moving said segments outwardly to permit their separation and the release of a drum held therein.

1,917,873. REFRIGERATOR. EDMUND D. CAMPBELL, University City, and WILLIAM F. DIETRICHSON, Webster Groves, Mo. Filed Mar. 27, 1930. Serial No. 439,874. 8 Claims. (Cl. 62—91.5.)



1. A refrigerator comprising a body having an insulated compartment therein, a metal container fitting said compartment, a closed box secured in the upper part of the container and holding solid carbon dioxide, and a duct extending around the container with portions thereof embedded in the insulation of the compartment whereby to restrain the container against shifting, the ends of said duct opening into said box.

1,917,874. DRAFT RIGGING. CHARLES E. DATH, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 27, 1932. Serial No. 589,140. 9 Claims. (Cl. 213—9.)

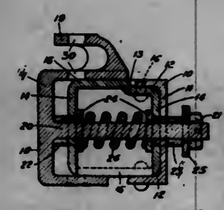


1. In a draft rigging for cars, the combination with a transversely disposed gang of spring plates connected to the end of the car; of spaced abutment means on the car supporting the gang of plates on the inner side thereof at points inwardly of the outer ends of said gang of plates; a coupler element connected to said spring plates between said abutments; and inwardly movable means for transmitting buffing forces to opposite ends of said gang of spring plates, said last named means including members at opposite sides of the same end of the car bearing on the opposite end sections of said gang of plates at points laterally outwardly of said spaced abutment means to flex said plates in buff, thereby cushioning the shocks.

1,917,875. LUBRICATING OIL AND METHOD OF MAKING THE SAME. GARLAND H. B. DAVIS, Baton Rouge, La., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed May 17, 1929. Serial No. 364,004. 2 Claims. (Cl. 87—9.)

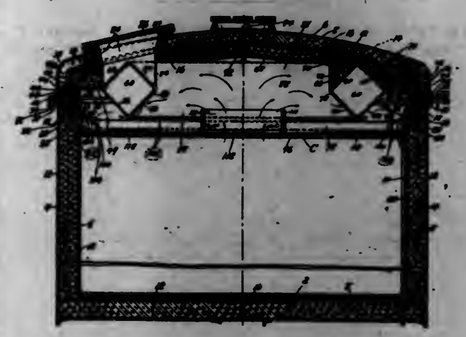
1. A composition of matter comprising a waxy hydrocarbon oil to which has been added a small amount of wax tailings, sufficient to produce a substantial reduction of the pour point of the oil without substantial decrease in color.

1,917,876. DRAFT AND BUFFING MECHANISM FOR MINE CARS. RALPH E. DENDLER, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 15, 1932. Serial No. 598,962. 7 Claims. (Cl. 213—9.)



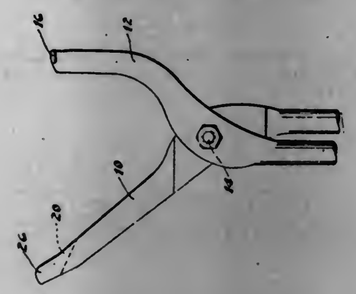
5. The combination with an end sill of a spring confining member secured thereto and projecting forwardly therefrom, a buffer member mounted externally of and telescopically supported on said spring confining member, a spring mounted between spaced parts of said spring confining member and adapted to cushion buffing shocks to which the buffer member is subjected, and means cooperatively associated with the buffer member and spring confining member and extending through the end sill for limiting the movement of said buffer member.

1,917,877. RAILWAY CAR. WILLIAM F. DIETRICHSON, Webster Groves, Mo., assignor to American Car and Foundry Securities Corporation, Wilmington, Del., a Corporation of Delaware. Filed May 28, 1930. Serial No. 456,488. 28 Claims. (Cl. 62—91.5.)



1. In a railway car, a car body, a car roof, longitudinally extending closed conduits holding solid carbon dioxide secured to the car roof adjacent the sides of the latter, transversely extending conduits connecting said longitudinally extending conduits, and vent means extending from the transversely extending conduits through the car roof for permitting escape of gas outside the car.

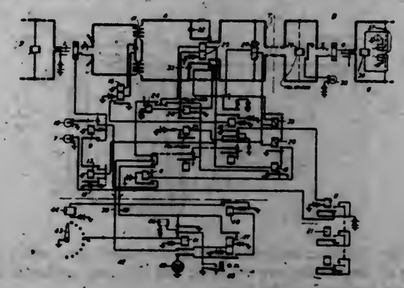
1,917,878. OPERATING TOOL. CLAUDE O'DONNELL, South Bend, Ind., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a Corporation of Delaware. Filed Oct. 30, 1930. Serial No. 492,258. 2 Claims. (Cl. 29—87.1.)



1. A tool generally formed like a pair of tongs and comprising a pair of arms pivoted together and one of which arms is notched at its end to provide a sharp edge adapted to bite into the edge of a web of a brake shoe and an adjacent projecting portion to engage the side of said web and the other of which arms is formed with a portion adapted to hook into the eye at the end of a brake return spring attached to said brake shoe so that the tool may be manipulated to elongate the spring.

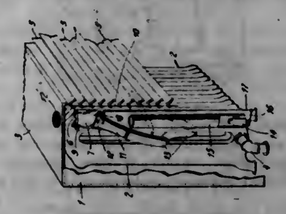
1,917,879. TELEPHONE SYSTEM. JOHN B. DRAPER, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 22, 1931, Serial No. 558,718. Renewed Oct. 4, 1932. 8 Claims. (Cl. 179—27.)

2. In a telephone system, a trunk line, a cord circuit, means for establishing connection between said cord circuit and said trunk line, a signal in said trunk line, a source of ringing current, means in said trunk line responsive to ringing current from said source for actu-



ating said signal, and means for maintaining said signal actuated for a short interval after the ringing current is disconnected.

1,917,880. THERMOSTAT CONTROL. SAMUEL G. FRANTZ, BRUNSON S. MCCUTCHEN, and WALTER VAN B. ROBERTS, Princeton, N. J.; said Frantz and said Roberts assignors to said McCutchen. Filed Mar. 11, 1932. Serial No. 598,168. 12 Claims. (Cl. 236—38.)

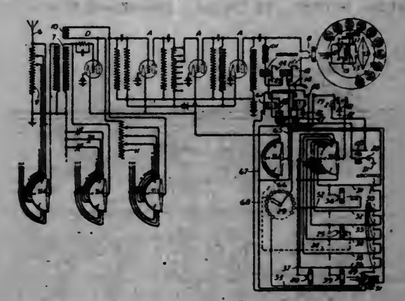


2. The combination with a radiator having a housing in which there is disposed at least one thermostat controlled movable shutter, a flue for receiving hot air from the hot surfaces of the radiator, a second flue for receiving air at room temperature, a deflector device adapted to deflect air from either of said two flues to said thermostat and means controlled by temperature changes of the room air for controlling the operation of said deflector device.

1,917,881. REMOTE CONTROL DEVICE. CHARLES E. GERMANTON, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 20, 1929. Serial No. 356,718. 5 Claims. (Cl. 250—20.)

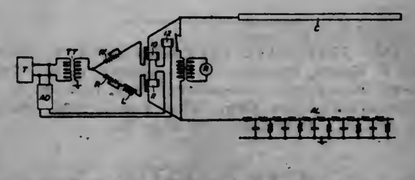
1. In combination, a radio receiver, a rotating selector switch, stepping mechanism for operating said switch, a remote control station comprising an acoustic device, a two-wire electrical circuit connecting said remote control station and said stepping mechanism and means responsive to increase in intensity of current in said electrical circuit for actuating said stepping mechanism, said two-wire circuit constituting the sole means for connecting the acoustic device to the radio receiver and the control station to the stepping mechanism.

4. A radio receiver, an acoustic device connected thereto, means comprising a time controlled switch for controlling the tuning of said radio receiver, means comprising manually operated switches located in proximity to said receiver for controlling the tuning thereof, means comprising a manually operated switch located in proximity to said acoustic device for controlling the tuning of said receiver, means controlled by said plurality of manually operated switches for nullifying the effectiveness of said time controlled switch in tuning said radio receiver and for restoring the effectiveness of said time controlled switch, and means controlled by said manually



operated switch for nullifying the effectiveness of said time controlled switch in controlling the tuning of said radio receiver and for restoring the effectiveness thereof.

1,917,882. SIGNALING SYSTEM. JOHN J. GILBERT, Douglaston, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 27, 1932. Serial No. 589,195. 7 Claims. (Cl. 179—1.)



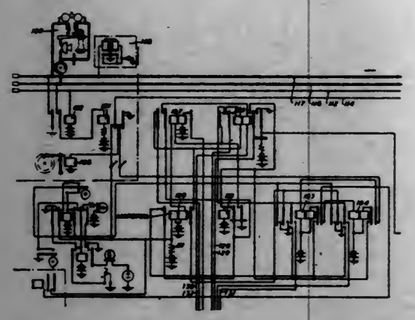
1. A submarine signaling system comprising a cable, a receiving circuit, means for connecting and disconnecting said cable to and from the circuit at frequent intervals, and means including an artificial line for overcoming the effects of residual cable voltages in said circuit at the instant when said cable is connected thereto.

1,917,883. COMBUSTION CHAMBER. MARK J. GOLDBERG, Beloit, Wis., assignor to Campbell, Wyant & Cannon Foundry Company, Muskegon Heights, Mich., a Corporation of Michigan. Filed Jan. 25, 1932. Serial No. 588,681. 4 Claims. (Cl. 123—32.)



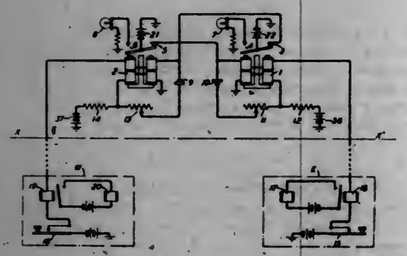
4. In an internal combustion engine, a cylinder, a cylinder head over said cylinder, a piston in said cylinder, said cylinder head enclosing a combustion chamber above and toward a side of the piston, and having a passage leading from said chamber downwardly, a lip carried by said head extending substantially horizontally from the lower end of said passage, said head being recessed at its lower side and the lip extending lengthwise partly across said recessed portion, the passage and recess having connection to each other, and a raised bar on said lip located transverse to the length of the lip and projecting into the recess, for the purposes described.

1,917,884. CALL CHARGING TELEPHONE SYSTEM. ALFRED E. HAGUE, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 30, 1932. Serial No. 601,986. 12 Claims. (Cl. 179—6.31.)



1. In a telephone exchange system, a calling line, a called line, a coin device on said calling line, a link circuit for establishing a talking connection between said calling line and said called line and a coin control device selectable by said link in response to said called line for operative association with said link circuit comprising means for collecting a coin deposited in said coin device and means for transmitting a signal to said calling line simultaneously therewith.

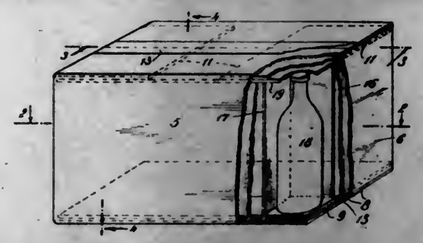
1,917,885. TELEGRAPH REPEATER CIRCUIT. RICHARD B. HEARN, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 7, 1932. Serial No. 585,183. 12 Claims. (Cl. 178—71.)



1. A telegraph repeater circuit including a polarized relay provided with two windings a battery associated with each winding, the terminals of said batteries electrically adjacent the respectively associated windings being of opposite polarity and a polarity discriminative device connected between the two windings.

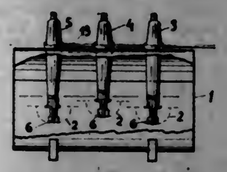
1,917,886. CARTON. GEORGE FRANCIS HOGAN, Chicago, Ill. Filed Dec. 18, 1931. Serial No. 581,937. 1 Claim. (Cl. 229—14.)

A shipping container for receptacles, containing liquids comprising sides and ends formed from a single sheet of light strong material with integral flaps forming when closed the bottom and top of the container, sheets of cushioning material at the bottom and sides within the container, partitions forming cells within the container and a sheet of cushioning material loosely disposed above the partitions and beneath the flaps forming the closure at the top of the container, the latter sheet having a thickness greater than the distance between the top of the partitions and the inside top of the container, whereby said sheet has to be forced down upon the tops of the bottles as the top flaps are folded into closed position,



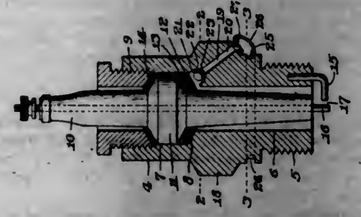
thereby forming indentations in the sheet into which the tops of the bottles are received and securely anchored and means for sealing the flaps.

1,917,887. OIL SWITCH WITH ROTATABLE CONTACT BRIDGE. FRANZ HOUŠT, Pilsen, Czechoslovakia. Filed Mar. 3, 1931, Serial No. 519,744, and in Czechoslovakia Oct. 10, 1930. 4 Claims. (Cl. 200—150.)



1. A polyphase oil switch comprising a tank, a plurality of shafts spaced lengthwise of and depending within the tank, and rotatable contact bridges supported by said shafts at different horizontal planes within the tank.

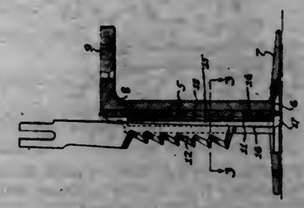
1,917,888. SPARK PLUG. JOHN H. HYDE, Marcus Hook, Pa. Filed Feb. 24, 1932. Serial No. 594,763. 3 Claims. (Cl. 123—169.)



1. A hollow spark plug body member having a passage therein extending from the exterior to the interior thereof and having an exterior, annular groove, in combination with a part slidably fitted to said groove and circumferentially adjustable therein and provided with a yieldable arm projecting therefrom and adapted to engage said member, said part being movable to an operative position in which said arm closes the outer end of said passage and to an inoperative position in which said arm is away from said passage.

1,917,889. CLOTH CUTTING MACHINE. HENRY E. JACQUES, Detroit, Mich. Filed Aug. 31, 1931. Serial No. 560,265. 1 Claim. (Cl. 164—75.)

As an article of manufacture, a device to compensate for the reduction of the stock of the cutting blades of cloth cutting machines, a longitudinal element of substantially the same thickness as the stock of the blade and adapted to be confined within the knife guide in position to be engaged by the rear edge of the blade, the outer longitu-

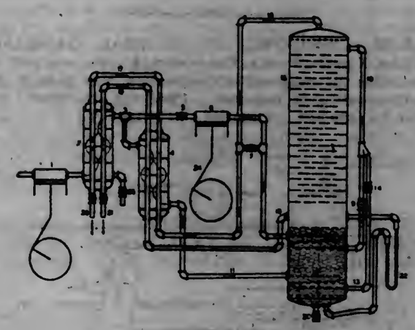


dinal edge of the element being beveled in the same plane as the beveled inner edge of the blade, and a rearwardly extending lug engageable with one end of the guide to hold the bar against longitudinal shifting therein.

1,917,890. PRODUCTION OF ARYLIDES OF 2.3-HYDROXYNAPHTHOIC ACID. THERESA SUSSMIHL KERR, Buffalo, N. Y., assignor to National Aniline and Chemical Company, New York, N. Y., a Corporation of New York. Filed July 14, 1931. Serial No. 550,811. 13 Claims. (Cl. 260—124.)
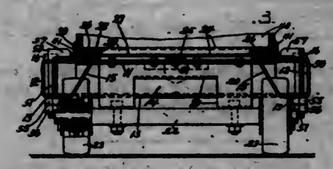
1. A process for making an arylide of 2.3-hydroxynaphthoic acid which comprises first reacting 2.3-hydroxynaphthoic acid with a halide capable of reacting with said acid to produce an acid halide, and subsequently reacting the resulting mixture with an arylamine.

1,917,891. METHOD OF SEPARATING GASEOUS MIXTURES INTO THEIR CONSTITUENTS. ISAAC H. LEVIN, Pittsburgh, Pa. Filed June 27, 1931. Serial No. 547,261. 10 Claims. (Cl. 183—115.)



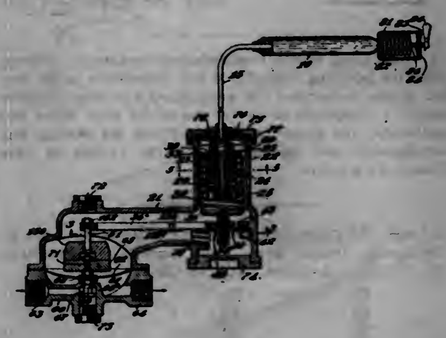
1. The method of separating the constituents of a gas, which comprises expanding with the production of external work one portion of a compressed gas to a pressure at which it will remain at least partially unliquefied when it is in heat transfer contact with a liquefied gas, subjecting said expanded portion to heat interchange with a body of said liquefied gas, subjecting to heat interchange with said body of liquefied gas another portion of gas to a pressure at which it will liquefy, expanding at least one of said portions, and subjecting each portion of the gas to rectification to form said body of liquefied gas.

1,917,892. INDUSTRIAL TRUCK. THEODORE E. LYONS, Jeffersonville, Ind., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 12, 1931. Serial No. 574,565. 13 Claims. (Cl. 18—40.)



1. In a soap truck, an underframe, a false bottom fixedly secured thereto and provided with raised marginal regions and means on the underframe for receiving the lower part of a soap frame and holding it against the underframe opposite the edges of the false bottom.

1,917,893. CONTROL APPARATUS. ALVIN S. MANCIB, Somerville, Mass., assignor to Comstock & Wescott, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Oct. 24, 1931. Serial No. 570,824. 8 Claims. (Cl. 236—92.)

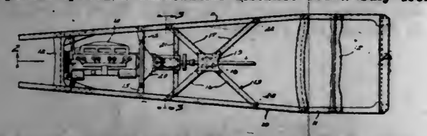


1. Apparatus of the class described comprising a fluid duct, a valve controllable to vary the rate of flow through said duct, a primary chamber of substantially constant volume, an expansible-contractible chamber, a duct connecting said chambers, said chambers and duct being included in a hermetically sealed system which is filled with liquid, control means actuable in response to change in volume of the expansible-contractible chamber to vary the position of the valve and thus effect variation in the rate of fluid flow through said duct in response to the temperature of said primary chamber, and regulating means associated with said valve to effect its opening to a sufficient degree to permit a predetermined pressure of fluid passing from the valve independently of the control means.

1,917,894. CHASSIS FRAME CONSTRUCTION. EARLE S. MACPHERSON, Detroit, Mich., assignor to Hupp Motor Car Corporation, Detroit, Mich., a Corporation of Virginia. Filed May 25, 1931. Serial No. 539,038. 9 Claims. (Cl. 180—64.)

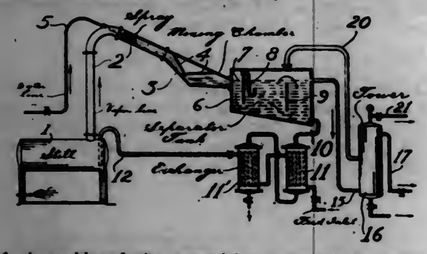
1. A vehicle chassis having in combination, a frame provided with laterally spaced side sills extending longitudinally of the vehicle, a power unit adjacent the forward end portions of the frame, frame members having the forward

ends secured to the frame adjacent the rear end of said power unit and having the rear ends secured to the sills at points spaced a substantial distance rearwardly from



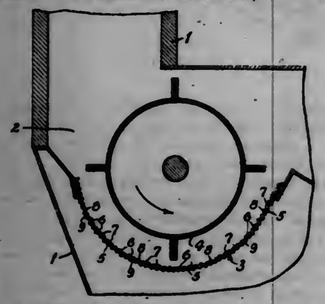
the power unit, and means secured to the frame members intermediate the ends thereof and attached to the power unit for supporting the latter on the frame.

1,917,895. METHOD AND APPARATUS FOR CONDENSING AND PURIFYING VAPORS AND GASES. WILLIAM HENRY MCGRATH, Roselle Park, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Dec. 4, 1929. Serial No. 411,450. 3 Claims. (Cl. 183—21.)



1. A washing device comprising a conduit for vapors, means for injecting wash liquid into the vapors in the conduit, means for mixing the wash liquid and resulting condensate, a receptacle to receive the mixed wash liquid and condensate, and means in the receptacle for causing any incondensible gas associated with the vapors to pass through the mixture.

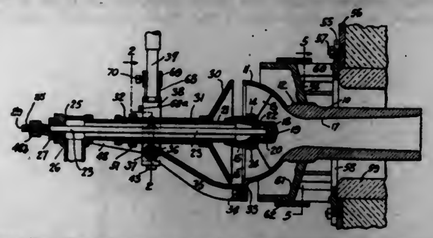
1,917,896. COTTON CLEANING APPARATUS. JOHN E. MITCHELL, Dallas, Tex. Filed June 23, 1932. Serial No. 618,877. 4 Claims. (Cl. 19—95.)



1. In a machine for cleaning cotton in combination with a curved expanded metal screen characterized by diamond-shaped openings bounded on all four sides by walls of greater width than thickness and angularly disposed, a beating cylinder cooperating with said screen and rotating in a direction to move the cotton into engagement with and over the edges of said walls.

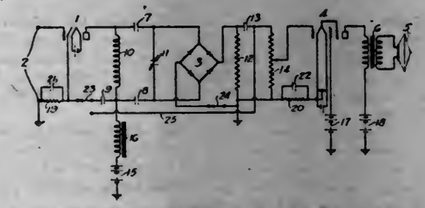
1,917,897. GAS BURNER. ALBERT W. MORSE, Forest Hills, N. Y. Filed Aug. 24, 1931. Serial No. 558,909. 6 Claims. (Cl. 158—119.)

1. A gas burner comprising an inspirator tube having a gas connection, an air shutter at the inlet end of said tube, a gas valve, operating means for the said shutter and valve, and means to obtain variable ranges of adjust-



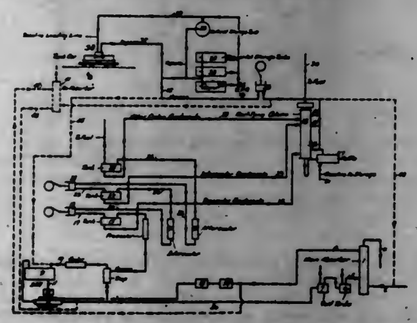
ment for the said shutter and valve in predetermined proportions to each other from zero to maximum with a constant travel of the said operating means.

1,917,898. RADIO APPARATUS. WILLARD P. PLACE, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Aug. 25, 1932. Serial No. 630,435. 5 Claims. (Cl. 179—100.11.)



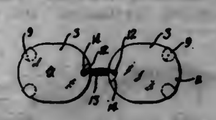
1. A radio receiver including an amplifier, a full wave metal oxide rectifier coupled to the output circuit of said amplifier and a power tube coupled to the output circuit of said rectifier, and manually operable means in the output circuits of said amplifier and of said rectifier adapted when operated to convert said circuit into an amplifying and reproducing unit for phonographs with said amplifier serving as an audio frequency amplifier and said rectifier effectively by-passed.

1,917,899. RECOVERY OF NATURAL GASOLINE. RALPH NEWELL PARKS, Charleston, W. Va., assignor to Columbia Oil and Gasoline Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 23, 1930. Serial No. 490,613. 3 Claims. (Cl. 196—7.)



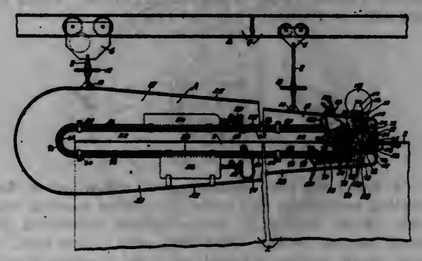
1. The method of recovering as liquid the gasoline vapors arising from storage receptacles containing finished gasoline, which comprises collecting said vapors, introducing them in the vapor phase into a rectifying column of a system in which gasoline is recovered from hydrocarbon gas, condensing the major portion of said vapors in said column, and collecting the resulting liquid.

1,917,900. GLARE SHIELD FOR SPECTACLES. EDWARD B. REDMAN, Berkeley, Calif. Filed Aug. 26, 1931. Serial No. 559,514. 2 Claims. (Cl. 88—41.)



1. In a glare shield for spectacles, a pair of transparent shielding members each having a substantially closed opening in the inner end portion thereof and a slit connecting said opening and an adjacent edge of the member, a continuous elastic band engaging in said openings, and yielding tongues formed integral with said members extending from the edges of the outer end portions thereof and arranged to hook over the corresponding end portions of the spectacle lenses.

1,917,901. APPARATUS FOR WELDING. JOHN M. ROHLFING, Plainfield, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed July 22, 1931. Serial No. 552,341. 6 Claims. (Cl. 113—59.)



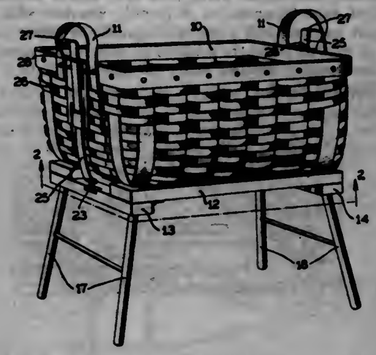
1. A welding apparatus comprising means for holding the parts to be welded in adjacent relation, means supporting the apparatus to permit movement thereof relative to said parts, pre-heating means and welding means carried by the apparatus and adapted to act against said parts sequentially upon movement of the apparatus relative to the said parts, and heating means carried by the apparatus adapted to act against the welded joint of said parts immediately following the deposition of weld metal thereto to retard cooling of the joint to preserve the malleability thereof.

1,917,902. HOLDING MEANS FOR ARTIFICIAL DENTURES. HORACE D. ROWE, San Jose, Calif. Filed Feb. 18, 1932. Serial No. 593,756. 1 Claim. (Cl. 32—4.)



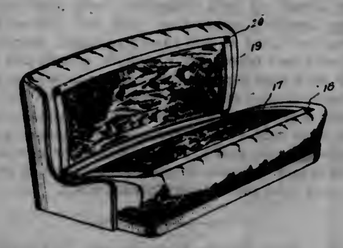
In combination with an artificial denture, a sheet of fabric therefor having the interstices thereof completely filled and preimpregnated with gum so that the latter is distributed throughout the entire area of the fabric and on each side face thereof, said gum when subjected to saliva having the property of thereby simultaneously securing the fabric to the denture and to that portion of the month from which the denture is supported.

1,917,903. BASKET. CHARLES R. SARGENT, Grand Rapids, Mich. Filed Apr. 2, 1931. Serial No. 527,282. 3 Claims. (Cl. 217—122.)



1. In combination with a basket having foldable legs thereunder, curved longitudinally mounted slides mounted upon the ends of the basket, means connecting the legs and the slides whereby movement of the slides upwardly causes the legs to move to an extensible position, spring means for retracting the legs, and means on the basket adapted to be engaged by the slides, said slides being sprung inwardly at their upper ends whereby they automatically engage the means on the basket.

1,917,904. SEAT COVERING. HARRY A. SALLOP, New York, N. Y. Filed Nov. 17, 1930. Serial No. 496,179. 2 Claims. (Cl. 155—182.)

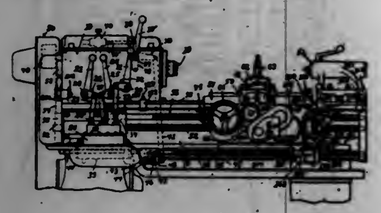


1. In combination with the seat back and seat cushion of a seat structure, a back cover attached to the seat back and having a panel attached thereto, which presents a face of one material, a cushion cover which presents a face of another material attached to the cushion of the seat and an auxiliary cover unit swingingly mounted to one of said covers at their juncture to swing into position to cover said panel or to swing into position to cover said cushion cover, said auxiliary cover presenting a face matching said panel when covering said cushion cover and presenting a face matching said cushion when covering panel.

1,917,905. MACHINE TOOL FEEDING APPARATUS. WILLIAM L. SCHELLENBACH, Wyoming, Ohio. Filed Oct. 10, 1930. Serial No. 487,769. 16 Claims. (Cl. 82—21.)

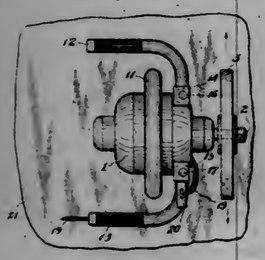
1. A machine tool comprising a bed, a work spindle carried thereby, a tool holder movable along said bed, a threaded shaft mounted stationarily along said bed, a tool holder driving shaft mounted rotatably along said bed, members carried by said tool holder positioned radially about said threaded member and adapted to selectively engage said threaded shaft to feed said tool holder along

said bed, a train of driving members carried by said tool holder adapted to transmit motion from said tool holder driving shaft to said threaded shaft engaging members to propel said tool holder along said bed, means to indicate which of said members is in driving relation with said threaded member, and a shiftable member included in said train of driving members adapted to engage and disengage said tool holder driving shaft in driving relation with said threaded shaft.



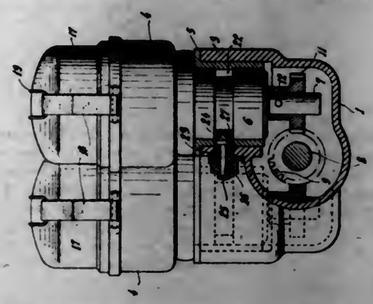
15. A machine tool comprising a bed, a work spindle rotatably mounted thereon, shiftable speed changing members operable to vary the speed of said work spindle, a tool holder movable along said bed, a threaded shaft mounted stationarily along said bed, and provided with a tool holder feeding thread and a screw chasing thread, a plurality of thread engaging members each continuously in mesh with a thread upon said threaded shaft and each shiftable into and out of driving relation with said threaded shaft, a tool holder driving shaft rotatably mounted along said bed and driven from said work spindle, a train of driving members carried by said tool holder operable to transmit motion from said tool holder driving shaft to said thread engaging members, a member shiftable to selectively engage respective thread engaging members in driving relation with the tool holder feeding thread or with the screw chasing thread of said threaded shaft, shiftable speed changing members carried by said tool holder operable to change the speed of said thread engaging members relative to said tool holder driving shaft, a shiftable member movable with said tool holder operable to engage and disengage said thread engaging members in driving relation with said tool holder driving shaft, a shiftable member movable with said tool holder operable to stop and start said work spindle, and a shiftable member movable with said tool holder operable to change the speed of said work spindle and said tool holder driving shaft.

1,917,906. MOUNTING FOR HAND GRINDING DEVICES. LUIS SCHULTE, Brackenridge, Pa., assignor to Allegheny Steel Company, a Corporation of Pennsylvania. Filed Aug. 29, 1930. Serial No. 478,640. 3 Claims. (Cl. 51—170.)



1. In a hand grinding device, a power driven grinder unit comprising a grinder wheel and a motor, a carrier wheel encompassing said motor and adapted to support said motor, and anti-friction means interposed between said carrier wheel and said motor.

1,917,907. TIMER FOR AIRPLANE ENGINES. WOLFGANG E. SCHWARZMANN, Longmeadow, Mass., assignor to United American Bosch Corporation, Springfield, Mass., a Corporation of New York. Filed Aug. 13, 1932. Serial No. 628,618. 11 Claims. (Cl. 123—148.)



1. A dual ignition unit comprising a casing and a pair of housings each adapted to contain an interrupter and a distributor mounted on said casing, one on each of the opposite sides at different points along the length of the casing.

1,917,908. LADY'S UNDERGARMENT. CATHERINE STOLZ, Dayton, Ohio. Filed Nov. 21, 1929. Serial No. 408,707. 4 Claims. (Cl. 2—78.)



1. A lady's one-piece undergarment consisting of hose extending well above the knees, a bloomer portion, wide elastic bands serving as garter means connecting the bloomer portion to the upper edge part of the hose, an elastic girdle section integral with the bloomer portion to form the top thereof, elastic strips extending from the garter means to the elastic girdle section, and an upper body piece connected to the bloomer portion to complete the garment.

1,917,909. ELECTRICAL PLUG. HAROLD V. STRYKER, Brooklyn, N. Y. Filed Oct. 13, 1932. Serial No. 637,570. 5 Claims. (Cl. 200—51.)



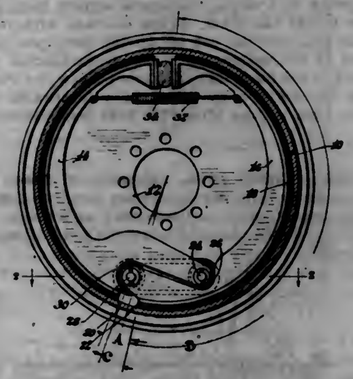
1. An electric plug having terminal posts adapted to receive the ends of an electrical cord, prongs extending from said plug adapted to be inserted into an electrical socket, one of said prongs being electrically connected to one of said terminal posts, the other of said prongs being electrically insulated from the other of said terminal posts, and a switch adapted to electrically connect or disconnect said last-named prong and said last-named terminal post, said switch comprising a pair of spaced-apart arms mounted in said plug in electrical series with said last-named prong and post, a shaft rotatably mounted in said plug and having a cam rigid thereon, a resilient tongue mounted at one end in said plug and having its

free end lying between said cam and the space between said arms, the width of said free end of said tongue being greater than the space between said arms, said free end of said tongue having its central portion pressed out to form a boss and a lip on each side of said boss, said boss being normally urged by said tongue against said cam, said shaft upon rotation causing said cam to push said boss away from said shaft and said lips into contact with said arms to close the gap between said arms.

1,917,910. ANTISOLVENT DEWAXING OF OIL. FREDERICK W. SULLIVAN, Jr., and CHESTER E. ADAMS, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a Corporation of Indiana. Filed June 24, 1930. Serial No. 463,567. 10 Claims. (Cl. 196—19.)

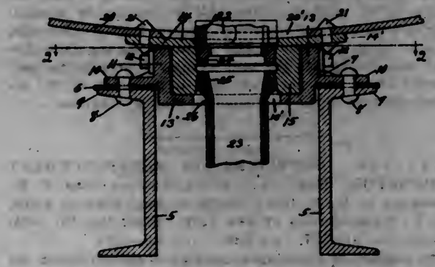
3. In a method of separating oil from wax, the step which comprises diluting an oil-wax mixture with a diluent containing an ester of a monocarbon organic acid.

1,917,911. BRAKE SHOE. GEORGE JOSEPH THOMAS, Detroit, Mich., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois. Filed Mar. 25, 1929. Serial No. 349,746. 3 Claims. (Cl. 188—250.)



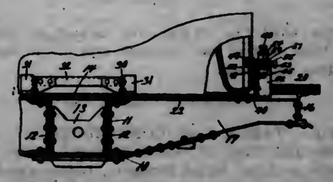
1. A brake shoe comprising a rim member and a web member, means adjacent one end of said web member whereby said shoe may be anchored, means adjacent the other end of said web member for engagement by applying means, said web member being of increasing flexibility from said anchoring end to said other end, said shoe extending substantially 180° in length.

1,917,912. TANK ANCHOR FOR TANK CARS. VICTOR WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 24, 1931. Serial No. 564,854. 12 Claims. (Cl. 105—362.)



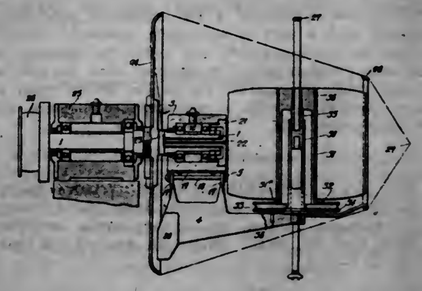
1. In a tank car, the combination with its center sills, of a tank having an anchor member attached thereto, said anchor including a depending boss having an opening therethrough, a discharge outlet secured to the boss in the opening, and means for anchoring the tank to said sills comprising an attaching element secured to the sills and provided with a socket adapted to receive the anchor member and secured thereto.

1,917,913. MULTIUNIT TANK CAR. VICTOR WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 14, 1931. Serial No. 575,014. 3 Claims. (Cl. 105—360.)



1. In a multiple tank car, a frame comprising a longitudinal central beam, means for cradling a row of tanks on said beam, and anchor devices loosely attached to the frame having provision for being tightened thereon, said anchor devices comprising spaced members each respectively positioned to engage chimes of adjacent tanks to tie them directly to each other as the anchor is tightened.

1,917,914. MACHINE FOR SPINNING, DOUBLING, TWISTING, AND THE LIKE, YARNS, FIBERS, AND THE LIKE. THOMAS EDWIN ANDREW and MELON LANGSTRETH, Rochdale, England, assignors to Dunlop Cotton Mills Limited, London, England, a British Company. Filed May 15, 1930, Serial No. 452,560, and in Great Britain May 21, 1929. Renewed July 22, 1932. 18 Claims. (Cl. 117—23.)

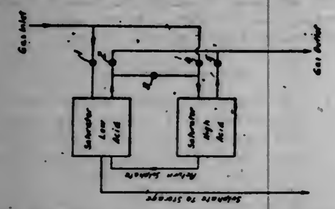


1. Apparatus of the type described which comprises a rotating spindle, a bobbin support mouned on said spindle and freely rotatable relatively thereto, said bobbin support comprising two parts having different and mutually counteracting oscillating phases about the axis of said spindle.

1,917,915. PROCESS OF PRODUCING AMMONIUM SULPHATE. CHRISTOPHER G. ATWATER, Tarrytown, N. Y., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey. Filed July 7, 1930. Serial No. 466,125. 8 Claims. (Cl. 23—119.)

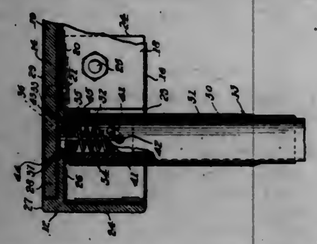
1. A method of producing large crystals of ammonium sulphate from ammonia-containing gases, which comprises passing the gases successively through a series of saturators each containing sulphuric acid of different strength, the acid in the first of said saturators being of a strength conducive to the formation of large crystals of sulphate, forming crystals of smaller size in a succeed-

ing saturator, returning the sulphate crystals formed in said succeeding saturator to said first saturator, and retaining said returned sulphate crystals in said first



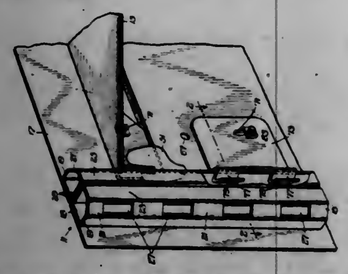
saturator until the crystal size thereof is substantially larger than that of the sulphate crystals formed in said succeeding saturator.

1,917,916. TABLE LEG CONSTRUCTION. JAMES E. BALES and CARL T. CHRISTENSEN, Aurora, Ill., assignors to Lyon Metal Products, Incorporated, Aurora, Ill., a Corporation of Illinois. Original application filed Aug. 9, 1929, Serial No. 384,582, now Patent No. 1,860,644, dated May 31, 1932. Divided and this application filed June 20, 1930. Serial No. 462,607. 21 Claims. (Cl. 45—11.)



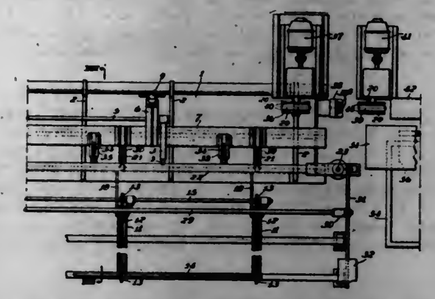
1. A table comprising a leg, means on said leg engageable with a part of said table, means for normally urging the leg lengthwise, and means for bringing said first named means out of engagement with the said part of said table and against the urging action when said leg is manually rotated a predetermined distance about its longitudinal axis.

1,917,917. SHELVING CONSTRUCTION. JAMES E. BALES, Aurora, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a Corporation of Illinois. Filed Sept. 30, 1931. Serial No. 566,034. 8 Claims. (Cl. 211—136.)



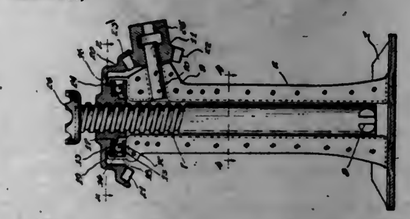
1. Shelving having a slotted, tubular upright, a panel adapted to abut an external surface of the upright, and a clamping member having a body adapted to be attached to the panel, said clamping member having a channeled flange forming a seat for the metal at one side of the slot in the upright.

1,917,918. SYSTEM OF APPARATUS FOR GALVANIZING METAL PIPES. CARL E. BIDDELL, Sherrard, W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed Apr. 8, 1930. Serial No. 441,265. 12 Claims. (Cl. 91—12.6.)



1. A system of apparatus for galvanling metal pipes comprising an elongate pot adapted to contain spelter, means for feeding pipes one at a time laterally into one side of said pot, means for guiding the pipes through the spelter in a single continuous stream from one side of the pot to the other, means operable with the entry of each pipe into the pot for forcing the pipes under the surface of the spelter, said means being adapted to force one end of the pipes into the spelter below the other, and means for drawing the pipes in a lengthwise inclined fashion from the pot after they have been galvanized.

1,917,919. SCREW JACK. RICHARD O. BERG, Detroit, Mich., assignor to Michigan Steel Tube Products Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 21, 1931. Serial No. 564,031. 10 Claims. (Cl. 254—98.)



1. A jack comprising a hollow standard which includes two matched halves, said jack adapted to be assembled by the securing together of the matched standard halves, a lifting screw in the hollow standard, a gear member threaded onto the lifting screw, means forming a circular groove in the gear substantially concentric with its axis, each half of the standard having a supporting surface near its upper end, anti-friction elements disposed between the gear and the supporting surfaces and adapted to take the lifting thrust, each standard half having means integral therewith and projecting above the anti-friction elements, the upper edge portions of said means being angularly disposed and fitting into the said circular groove in the gear whereby all of said parts are held in assembly by the securing together of the two matched standard halves.

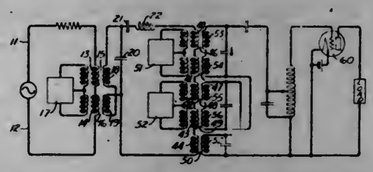
1,917,920. CONTAINER OR REENFORCEMENT THEREFOR. HERBERT R. BLISS, Niagara Falls, N. Y., assignor to H. R. Bliss Company, Inc., Niagara Falls, N. Y., a Corporation of New York. Filed Jan. 31, 1931. Serial No. 512,527. 1 Claim. (Cl. 93—42.)

The method of applying a metallic U-shaped stitch for reenforcing the corner of a fiber board container comprising driving the legs of the U-shaped stitch through a fiber board blank while the blank is substantially in flat form with the legs penetrating the blank on opposite sides of a crease line, and with the body of the stitch bridging the crease line and substantially at right angles to the crease line, clinching the legs of the stitch against the fiber board on the side opposite the body of the stitch whereby the end portions of the body of the stitch and the



clinched portions of the legs tightly grip the fiber board, leaving the center portion only of the body portion of the stitch spaced from the fiber board, and then bending the fiber board on the crease line to form a corner with the body of the stitch on the outside whereby the center portion of the body of the stitch is drawn taut and against the fiber board.

1,917,921. FREQUENCY CHANGER SYSTEM. EVERETT T. BURTON, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 4, 1928. Serial No. 310,233. 11 Claims. (Cl. 172—281.)



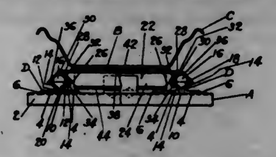
11. A frequency multiplying device comprising a source of alternating input current, a plurality of coils each having cores magnetically related to windings supplied by said alternating current, and sources connected to windings for magnetically polarising certain of said coils to a different degree but in the same direction with respect to an output circuit which is also magnetically related to said coes.

1,917,922. PHOTOGRAPH MOUNTING. RALPH O. CLARK, Memphis, Tenn. Filed Nov. 19, 1932. Serial No. 643,394. 2 Claims. (Cl. 40—158.)



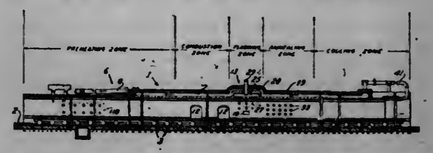
1. In combination, a photograph or the like and a mounting therefor, in which the surface bearing the pictorial matter is sharply beveled at the under side of its marginal portions, and slopes gradually to the surface of the mounting, whereby there is substantially no visually perceptible surface irregularity at the juncture of said two surfaces.

1,917,923. BALL FRAME FOR SHAKER CHUTES. ALLEN W. CLARKE, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed July 29, 1932. Serial No. 625,636. 7 Claims. (Cl. 198—220.)



1. A ball frame for shaker chutes comprising a base frame having spaced lower raceways each formed of a pair of angle members having adjacently arranged upwardly extending portions providing bearing surfaces, anti-friction elements in the said raceways and supported on the bearing surfaces, angle-shaped upper raceways mounted on the anti-friction elements in such a manner as to constitute housings covering the lower raceways and provided with portions arranged in lapping relation with respect to one of the angles of each of said lower raceways whereby excessive vertical and sidewise shifting of the upper raceways relative to the lower raceways is prevented.

1,917,924. CERAMIC WARE TREATING METHOD AND APPARATUS. CLARENCE L. COLBERT, Elizabeth, N. J., assignor to Fiske & Company, Inc., Boston, Mass., a Corporation of Massachusetts. Filed May 24, 1930. Serial No. 455,291. 14 Claims. (Cl. 25—142.)



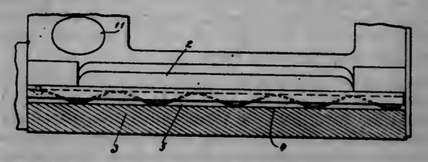
4. In a tunnel kiln having a preheating zone, a firing zone and a cooling zone, a flashing zone and a tempering zone disposed between the combustion zone and the cooling zone, said flashing zone being provided with inlets to supply surface coating material at high temperature, and outlets arranged to cooperate with the inlets in causing the circulation of the coating material in contact with the surface of the ware, and means to supply a relatively large quantity of cool air to the tempering zone to effect a rapid cooling of the ware emerging from the flashing zone, thereby to set the finish imparted to said ware by the flashing treatment.

1,917,925. PROCESSING TOOL. STUART A. COGSDILL, Detroit, Mich., assignor to Cogsdill Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 29, 1930. Serial No. 505,376. 7 Claims. (Cl. 29—90.)



1. A work processing tool comprising a revoluble arbor, rotatable processing rolls carried by said arbor, and means upon said arbor providing peripherally spaced faces for forcing said rolls outwardly relative to said arbor into contact with the work and then temporarily holding said rolls in contact with the work and then allowing said rolls to move inwardly relative to said arbor.

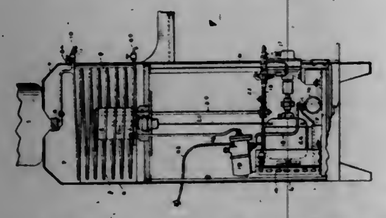
1,917,926. SPRING GIB. ALONZO G. DECKER, Baltimore, Md., assignor to The Black & Decker Manufacturing Company, Towson, Md., a Corporation of Maryland. Filed July 24, 1929. Serial No. 380,499. 5 Claims. (Cl. 308—3.)



1. In a grinding or similar machine the combination of two members comprising a slideway and a slide of a spring gib between said members, said gib consisting of an elongated strip of metal bearing against one said member

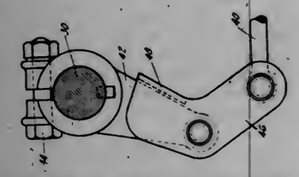
and a correspondingly elongated corrugated leaf spring secured to the strip, having a series of peaks and valleys spaced in the direction of its length, said strip bearing against one said member and the peaks of the leaf spring on one side of the spring resting on the other said member the peaks on the other side of the spring bearing on the strip, said peaks being distributed along the entire length of the strip which is supported solely by the spring which presses it against said member with a uniform tension throughout its length.

1,917,927. BEVERAGE COOLING APPARATUS. ALBERT C. DENSLOW, New York, N. Y., assignor to Staten Island Shipbuilding Co., Staten Island, N. Y., a Corporation of New York. Filed Feb. 1, 1929. Serial No. 336,748. 4 Claims. (Cl. 62—141.)



1. In a beverage cooler adapted to removably support inverted vessels containing liquid to be chilled, the combination of a liquid receptacle partially filled with liquid, a conduit coiled adjacent the inner periphery thereof and terminating with an inlet adapted to receive the mouth of an inverted vessel, said conduit having a plurality of faucets communicating therewith at spaced points, a portion of said conduit between said faucets being immersed in said liquid, and a refrigerating dome disposed in the base of said receptacle and adapted to chill the beverage in said coiled conduit through said liquid in the receptacle.

1,917,928. BRAKE OPERATING MECHANISM. ADIEL Y. DODGE, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois. Filed July 27, 1925, Serial No. 46,241. Renewed Aug. 12, 1932. 3 Claims. (Cl. 74—33.)



1. An over-running connection comprising, in combination, an operating arm, a bellcrank lever having two parallel sides straddling said arm and pivoted thereto and having a cross part connecting said sides behind the arm and engageable with the arm when the lever is moved in one direction, and a tension connection of substantially the thickness of the arm pivotally connected between the ends of said parallel sides.

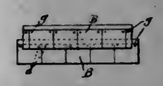
1,917,929. METHOD OF MOLDING A MOTOR MOUNTING PAD. JAMES FRANCIS DUFFY, Holland, Mich., assignor to Duffy Manufacturing Company, Holland, Mich., a Corporation of Michigan. Filed Oct. 29, 1928. Serial No. 315,608. 1 Claim. (Cl. 18—59.)

A process of manufacturing a motor pad or the like of the character described which consists in providing a mold having a rectangular shaped recess of the same size as the size of the finished article, placing uncured rubber in the recess to a predetermined and constant depth, next, placing a perforated reinforcing plate of less size than the recess upon the said uncured rubber, next placing another quantity of rubber upon the plate, then placing a second similar reinforcing plate upon the second quantity of rubber, next placing a third quantity of rubber



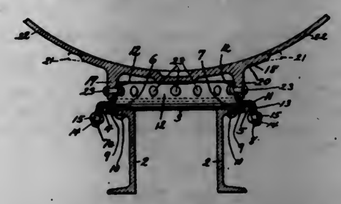
upon the second reinforcing plate, then placing the top quantity of rubber under pressure, meanwhile providing stop means extending through the reinforcing plates near their corners whereby they are prevented from moving downwardly beyond predetermined points, also providing a post for extending through the respective layers of rubber and reinforcing plates, then vulcanizing the rubber and finally removing the said motor pad.

1,917,930. CONSTRUCTION MATERIAL. ALBERT C. FISCHER, Chicago, Ill., assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio. Filed Jan. 16, 1930. Serial No. 421,155. 5 Claims. (Cl. 108—8.)



3. A roofing structure comprising a plane unbroken sheeting cover having spaced vertical and horizontal guidelines thereon to form a pattern-chart, overlapping courses of shingles attached to said sheeting cover as indicated by the pattern-chart, and fastening nails driven through the shingles to secure same to a deck.

1,917,931. TANK ANCHOR FOR WELDED TANKS. CLYDE H. FOLMSBEE, Cranford, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 21, 1931. Serial No. 564,047. 21 Claims. (Cl. 105—362.)

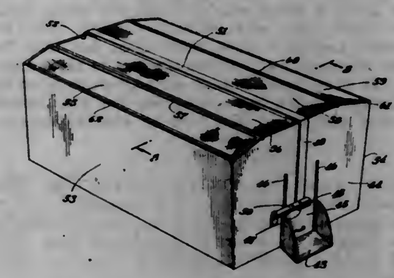


1. In a tank car, the combination with its center sills, of a tank having an anchor structure, and means for anchoring the tank at said structure to the sills comprising an anchor plate secured to said sills having an upward flange wedgingly interfitted with the said anchor structure and secured thereto.

1,917,932. VEHICLE. JACOB GINSBERG, Brooklyn, N. Y., assignor to Morris J. Ginsberg, Brooklyn, N. Y., and Morton Wormser, New York, N. Y. Filed May 29, 1931. Serial No. 540,889. 3 Claims. (Cl. 296—24.)

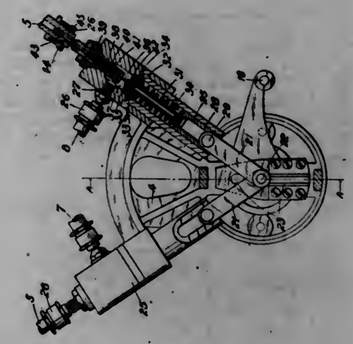
1. In a coal truck, a truck body having a top for permitting a loading of the body from above, and at least one delivery chute at the bottom for permitting the loaded

coal to be chuted out of the body by gravity, a pivoted locking bar carried by said body, a slidable closure for said delivery chute and cooperable with the latter to vary the effective opening through which the coal is permitted to be withdrawn, said closure carrying a locking projection adjacent its upper edge which comes into proximity with said locking bar when the closure is in a position completely sealing the chute, an openable cover for the top



of the truck body, a locking strap associated with said cover and adapted to be positioned in proximity to said locking bar when the cover is in closed position over the top of the truck body, and a single sealing device adapted to engage said locking bar, locking projection, and locking strap when in superimposed relationship, thereby rendering the load in the truck body wholly inaccessible as long as said sealing device is operative.

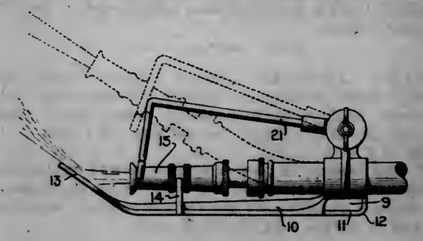
1,917,933. AIRCRAFT WHEEL BRAKE SYSTEM. ERNEST FREDERICK GOODYEAR, Moxhall Park, Wishaw, JOSEPH WRIGHT, Stoke Park, Coventry, and HENRY TREVASKIS, Keresley, Coventry, England, assignors to Dunlop Rubber Company Limited, London, England, a British Company. Filed Dec. 8, 1932, Serial No. 646,264, and in Great Britain Dec. 2, 1931. 17 Claims. (Cl. 244—2.)



1. Brake control mechanism of the type described comprising a plurality of fluid pressure relays, a common actuating means for said relays, means for moving said actuating member, and independent means to proportion said movement between said relays.

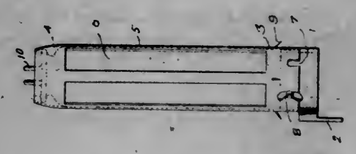
1,917,934. SPRINKLER HOSE APPLIANCE. EDMUND C. HANLEY, Muskegon, Mich. Filed Feb. 16, 1931. Serial No. 515,969. 3 Claims. (Cl. 299—74.)

3. The combination with a tapered hose nozzle, of a base, a sleeve therein, a plate rigidly mounted on the base and inclined at an angle thereto, a nozzle receiving member on said base between said sleeve and said plate, said sleeve being constructed to slidably and snugly receive the flexible hose whereby the longitudinal position of the nozzle may be varied in relation to the said plate,



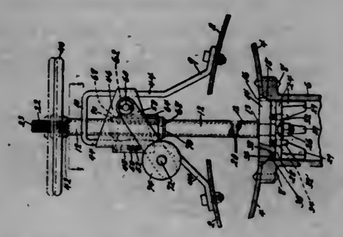
whereby lateral movement of the nozzle is also had, and an arm adjustably mounted on the base, said arm having a portion adapted to hold the nozzle against the nozzle receiving member and directed at the plate.

1,917,935. STOCKING FRAME FOR EMBROIDERING MACHINES. ARTHUR P. HANNEL, Royersford, Pa., assignor to Rising Sun Embroidery Works, Inc., Royersford, Pa. Filed Aug. 16, 1932. Serial No. 628,977. 4 Claims. (Cl. 112—103.)



1. A stocking frame for embroidering machines, comprising a support adapted to be connected to the embroidering machine, a lower ring rotatably mounted on said support, an upper ring and strips connecting the rings together in spaced relation and defining slots equally spaced apart whereby they may be selectively aligned with the embroidering machine in the rotation of the lower ring upon said support.

1,917,936. VALVE AND OPERATING MEANS THEREFOR. EDWARD M. HARTMAN, Milton, Pa., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 12, 1932. Serial No. 592,484. 13 Claims. (Cl. 137—21.)



1. In a valve, a valve body for closing a discharge outlet, a valve rod for actuating the valve body, a valve guide in the discharge outlet adjacent the valve body but free of connection with said valve body, means on the valve body in cooperative relation with the valve guide adapted to restrain the valve guide against horizontal movement relative to the valve body but being of such character as to permit longitudinal movement of the valve guide relative to said valve body, a gasket interposed between the valve

guide and valve body, and means for exerting pressure against the valve guide to shift the latter relative to the valve body in the direction of opening movement of the valve body to compress the gasket between said valve guide and valve body and into sealing relation with the discharge outlet.

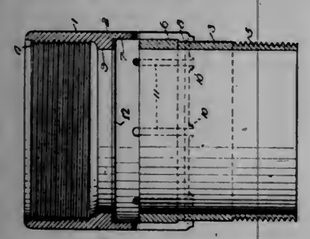
1,917,937. FISH NET. STUART JACKSON HAYES, Ludlow, Mass., assignor to Ludlow Manufacturing Associates, Ludlow, Mass., a Massachusetts Trust. Filed July 29, 1931. Serial No. 553,898. 8 Claims. (Cl. 28—1.)

1. The method of preserving gill netting, which comprises intimately incorporating with the net fibers thymol in effective quantities as disinfectant and also depositing in and on the fibers an aluminum soap.

1,917,938. THREAD. STUART JACKSON HAYES, Ludlow, Mass, assignor to Ludlow Manufacturing Associates, Ludlow, Mass., a Massachusetts Trust. Filed Oct. 14, 1931. Serial No. 568,875. 8 Claims. (Cl. 117—53.)

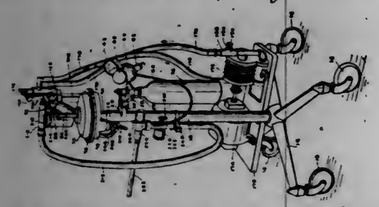
1. The method of preparing a rot-resistant flax thread, which comprises applying a water soluble soap and disinfectant to the yarn, twisting the yarn into thread, and then precipitating the soap within the finished thread by converting it into an insoluble soap.

1,917,939. FRANGIBLE JOINT. JOSEPH W. HEETER, East Butler, Pa. Filed June 27, 1930. Serial No. 464,264. 2 Claims. (Cl. 285—146.)



1. A frangible coupling for a well casing comprising telescoping tubular members having coacting abutting shoulders and a weld for normally securing said members together, at least one of said members having slots extending axially through the end thereof to permit displacement of one of said shoulders so that the members may be separated.

1,917,940. PULMONARY VENTILATING APPARATUS. JAY A. HEIDBRINK, Minneapolis, Minn. Filed Nov. 23, 1929. Serial No. 409,246. 4 Claims. (Cl. 128—29.)



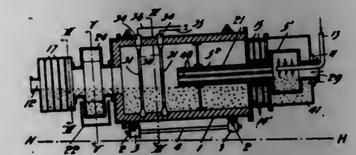
1. A pulmonary ventilating apparatus comprising a pump having a pressure end and a suction end, a valve casing containing two end chambers and an intermediate chamber, a tube connecting one of said end chambers with the suction end of said pump, a tube connecting the other one of said end chambers with the pressure end of said pump, valve mechanism in said casing adapted to alternately close and open communication between the first of said end chambers and the atmosphere, and between said end chamber and said intermediate chamber, a valve adapted to alternately close and open communication between the second of said end chambers and said intermediate chamber, a casing having one of its ends open to atmosphere, a tube connecting said intermediate chamber and the other end of said casing, a piston device in said casing, a switch device connected with said piston device, connections between said switch device and said valve mechanism and valve which move them into their first position when said piston device is moved in one direction and which move them into their second position when said piston device is moved in the other direction, and a tube for connecting said intermediate chamber with the patient.

1,917,941. TUBE FOR CONDUCTING LIQUIDS. FREDERICK G. HEHR, New York, N. Y., assignor, by direct and mesne assignments, to Aerol Engine Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 1, 1929. Serial No. 336,789. 1 Claim. (Cl. 137—112.)



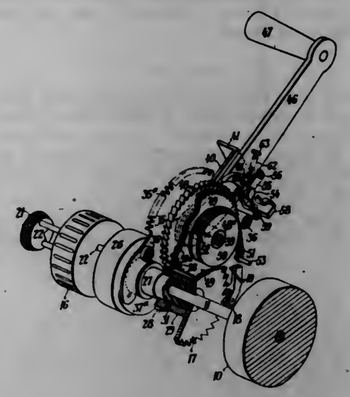
In a conduit for conducting fuel from a fuel injector to a combustion chamber, an outer tubular member having a substantially smooth longitudinal bore, an inner filling member formed as a twisted multisided bar to form alternate spiral projecting edges and intervening smooth portions thereon, the twist of said member having a relatively shallow pitch, said inner member contacting through its projecting edges with the interior of said outer member to form restricted enclosed spiral passageways extending uniformly throughout the entire length of said conduit.

1,917,942. METHOD AND APPARATUS FOR HEAT TREATMENT OF MATERIALS IN ROTARY FURNACES. BO MICHAEL STURE KALLING and CARL VON DELWIG, Avesta, Sweden, assignors to A. Johnson & Co., Stockholm, Sweden, a Company of Sweden. Filed Dec. 7, 1929, Serial No. 412,517, and in Sweden Dec. 10, 1928. 1 Claim. (Cl. 75—14.)



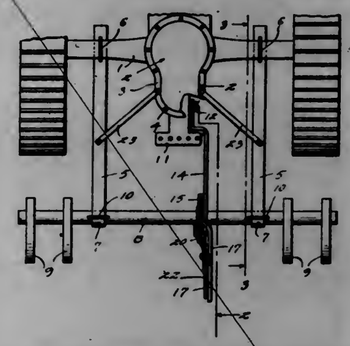
The method of preheating and prereducing ores without melting, consisting in charging ore and carbonaceous materials, separate from each other, into a furnace, the one of said materials being fed into an inner chamber of the furnace, and the other material being fed into the space between the inner chamber and the walls of the furnace; preheating the materials by means of heat developed in burning combustible gases formed by the reducing process, said burning taking place out of direct contact with the carbon fed into the furnace, but in heat exchange relation to said carbon; and allowing the preheated ore and carbon to mix and react with each other so that a reduction of the ore by the action of the carbonaceous materials takes place, whereby said gases are developed.

1,917,943. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 30, 1926. Serial No. 157,912. 16 Claims. (Cl. 197—114.)



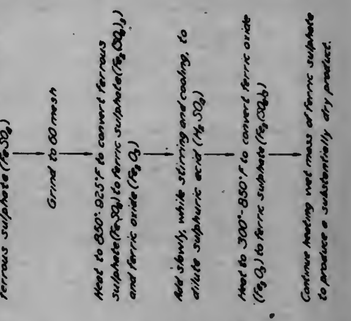
1. In a typewriting machine, in combination with a platen having an axle, a line-space mechanism therefor including a ratchet-wheel, and a clutch normally connecting said line-space mechanism with said platen, said ratchet-wheel being rigidly mounted on a spacing sleeve of said clutch, a platen-sweep for rotating the platen through a predetermined distance greater than a line-space, including a manually-driven element and a gear-wheel rigid therewith and mounted eccentrically of the platen-axle, and a pinion in mesh with said gear-wheel and adjustably fixed upon the sleeve and between the clutch and said ratchet-wheel for driving the platen.

1,917,944. TRACTOR ATTACHMENT. CLARENCE P. LANGDON, Hydesville, Calif. Filed Mar. 26, 1932. Serial No. 601,485. 2 Claims. (Cl. 97—56.)



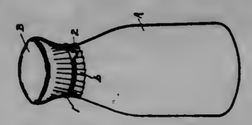
1. An attachment for a wheeled structure, comprising a pair of draw beams each adapted to be attached at one end to an axle of a structure to extend rearwardly in spaced parallel relation therefrom, a shaft disposed transversely of and supported by said beams and mounted for oscillation thereon, a bar member having longitudinal sliding connection at one end with the body of the structure and extending transversely of the said shaft, means for oscillating said shaft comprising a lever pivotally attached adjacent one end to said bar and having the said end secured to said shaft, and earth working elements supported by said shaft.

1,917,945. PROCESS OF MAKING FERRIC SULPHATE. HENRY S. MARSH and CARL W. WEBSNER, Youngstown, Ohio, assignors to Sharon Steel Hoop Company, Sharon, Pa., a Corporation of Pennsylvania. Filed Dec. 14, 1928. Serial No. 326,151. 4 Claims. (Cl. 23—126.)



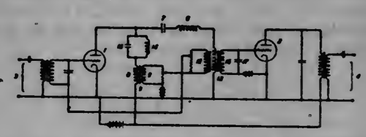
1. In the process of making ferric sulphate, the steps which comprise heating anhydrous ferrous sulphate in the presence of oxygen to about 900° F. to convert it into ferric sulphate and ferric oxide, slowly introducing the mass into sulphuric acid while stirring, and heating the resulting mass to accelerate the reaction.

1,917,946. BOTTLE CAP RETAINER AND METHOD OF MAKING SAME. CHARLES A. MACCORDY, Syracuse, N. Y. Original application filed Jan. 16, 1928, Serial No. 247,097. Divided and this application filed Mar. 3, 1930. Serial No. 432,922. 1 Claim. (Cl. 215—95.)



A device for retaining a plaited-skirt bottle cap upon the mouth and neck of a bottle comprising an endless ring of permanent size and form having its inner diameter conforming to the exterior diameter of the skirt and to the individual plaits thereof when the latter is tightly applied to the neck of the bottle.

1,917,947. AMPLIFIER-FILTER CIRCUIT. HEIICHI NUKIYAMA, Sendai City, Japan, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 19, 1932. Serial No. 629,482. 2 Claims. (Cl. 178—44.)



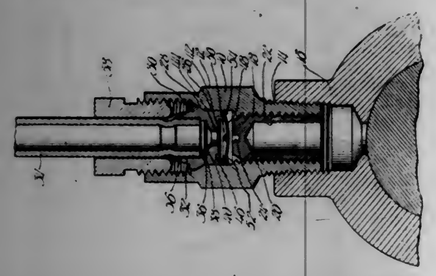
1. An amplifier-filter circuit characterised in this that a band filter circuit is associated with the output circuit of a vacuum tube amplifier in such a connection that a suitable portion of the voltage at the input side of said filter is fed back to the grid of said vacuum tube so that the attentuating frequency region of the filter is suppressed, and a portion of the voltage at the output side of said filter is also fed back to the grid of said vacuum tube so that the passing frequency region of said filter is regenerated.

1,917,948. AMUSEMENT DEVICE. GEORGE V. POST, Cincinnati, Ohio. Filed Oct. 17, 1928. Serial No. 313,131. 5 Claims. (Cl. 273—141.)



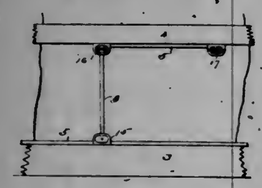
4. In an amusement device, a rotatably mounted series of imitative elements free to rotate by virtue of their momentum, a single imitative element distinguished in appearance from said other imitative elements, mounted to rotate freely, concentrically with but relatively to said series of elements, by virtue of its momentum, and frictional means for imparting motion from said series of elements to the additional element in uncertain ratio, so that by chance any one of the series of elements may be nearest to the additional element upon stoppage of revolution of all of said elements.

1,917,949. LUBRICATING APPARATUS. CHARLES F. RAISCH, Chicago, Ill., assignor to Alemite Corporation, Chicago, Ill., a Corporation of Delaware. Filed Aug. 26, 1929. Serial No. 388,332. 3 Claims. (Cl. 184—7.)



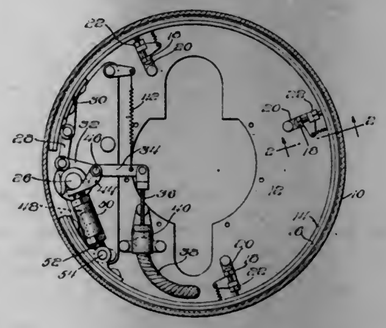
1. A resistance unit for centralized lubricating systems comprising an internally threaded body, a plug having mutilated threads screwed into said body, a valve support and cage fitting in said body and having a tapering surface cooperating with a complemental surface in said body, said support having a bore to receive the end of a conduit, the wall surrounding said bore being of gradually decreasing thickness, and a bushing for deforming said wall and pressing it against a conduit.

1,917,950. ELECTRICAL CONDUIT FITTING. CHARLES E. RUTHERFORD, West Hartford, Conn., assignor to The Wiremold Company, Elmwood, Conn., a Corporation of Connecticut. Filed Sept. 10, 1931. Serial No. 562,088. 3 Claims. (Cl. 247—15.)



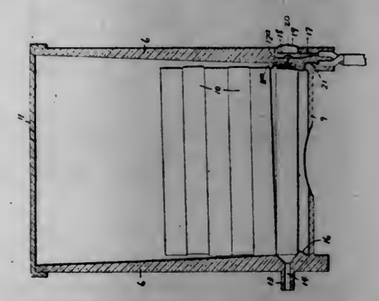
1. An electric conduit fitting comprising a casing having a closing plate, said closing plate having a straight edge portion, tongues on said closing plate adjacent said flat edge portion, said tongues extending outwardly from said closing plate in opposite directions and adapted to receive the ends of conduits whereby the edges of said conduits adjacent the flat edge portion of said closing plate are connected so as to be in substantially the plane of said flat edge portion in order to provide a continuous flat surface, and means for mounting suitable electric devices within said casing.

1,917,951. BRAKE. ROY S. SANFORD, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois. Original application filed Aug. 15, 1922, Serial No. 581,945. Divided and this application filed Apr. 16, 1928. Serial No. 270,195. 19 Claims. (Cl. 188—78.)



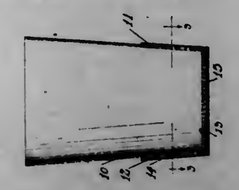
1. A brake comprising, in combination, a drum, a fixed anchor member at one side of the drum, a floating expansible friction member within the drum having the fixed anchor arranged between its ends and members pivoted respectively to said ends and anchoring against said member in opposite directions of drum rotation and operable to apply the brake.

1,917,952. CIGARETTE DISPENSER AND IGNITER. HAROLD R. DAVIDSON, Akron, Ohio. Filed June 14, 1932. Serial No. 617,190. 2 Claims. (Cl. 312—86.)



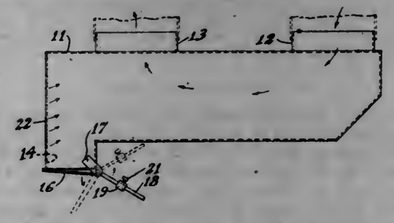
1. A cigarette dispenser and igniter comprising a hopper, an inwardly protruding formation at the lower end of the hopper on one side wall thereof, an igniting element on the opposite side wall mounted with its cigarette contact face inclined, said formation and igniting element being in horizontally spaced relation for supporting a cigarette in a substantially horizontal position, until released by the burning away of the cigarette at one end by the said igniting element.

1,917,953. ABSORBENT CONTAINER. JOHN C. DAVIS, Bowling Green, Ky. Filed Feb. 15, 1932. Serial No. 593,176. 8 Claims. (Cl. 65—53.)



1. An absorbent coaster for a glass comprising a cylindrical portion and a bottom, said bottom having secured thereto a flap portion adapted to be turned vertically in respect to said bottom so as to lie against the inner wall of said cylindrical portion and adapted to have cooperative relation with said glass.

1,917,954. ROCK TRAP. FRANK E. DEEMS, Birmingham, Ala., assignor to Continental Gin Company, a Corporation of Delaware. Filed Apr. 13, 1931. Serial No. 529,856. 3 Claims. (Cl. 19—76.)



1. In a rock trap, an elongated casing subject to suction and having side walls, end walls, a top and a bottom, means defining an inlet in the top of the casing at one end thereof, means defining an outlet in the top of the casing at the opposite end thereof from the inlet, means defining a pocket in the bottom of the outlet end of the casing, means defining restricted apertures in the end wall of the casing adjacent the pocket, and so disposed as to admit air in a direction counter to the flow due to suction and a trap door hinged to the casing beneath the pocket.

1,917,955. EXCAVATOR APPARATUS. LOUIS E. DIERKS, Oak Park, Ill., assignor to Sauerman Bros., Inc., Chicago, Ill., a Corporation of Illinois. Filed July 2, 1932. Serial No. 620,679. 10 Claims. (Cl. 37—116.)



10. In excavator apparatus, the combination of a platform, a member hinged at one end to said platform and adapted to serve as a hinged boom, and releasable means cooperating with said member adapting it in upwardly swung position to serve as a cantilever tower.

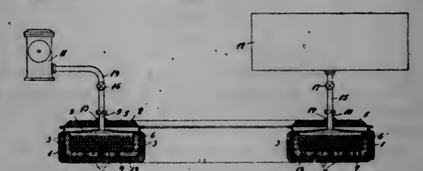
1,917,956. ELECTRIC SIGN. JOHN Z. HARLEY, Miami, Fla. Filed June 4, 1932. Serial No. 615,888. 4 Claims. (Cl. 40—130.)

1. An electric sign of the type described comprising a transparent tube having visible portions disposed in a common plane, and connecting portions behind said plane, a plastic coating for said tube and a hardened plastic support embedding the plastic-coated tube, said plastic



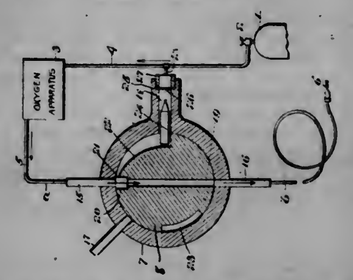
coating serving as a cushioning means for preventing any fracture of the tube due to the difference in expansion and contraction between the tube and support.

1,917,957. DRYING AND IMPREGNATING OF CABLES. BERNHARD SOPHUS FAITH ELL, Spanga, Sweden, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a Company of Sweden. Filed Jan. 6, 1931, Serial No. 507,037, and in Sweden Feb. 7, 1930. 4 Claims. (Cl. 91—46.)



1. An apparatus for drying and impregnating cables, consisting of a heating vessel, a cable container placed inside said vessel and adapted to be separately closed up hermetically, means in said heating vessel for heating the cable container externally, an oil container, an evacuating apparatus, conduits connecting the cable container with said oil container and evacuating apparatus, and means for shutting off the cable container alternately from the oil container and the evacuating apparatus.

1,917,958. OXYGEN GAS SUPPLY SYSTEM. JESSE E. ESHBAUGH, Flint, Mich. Filed Apr. 11, 1931. Serial No. 529,527. 4 Claims. (Cl. 128—142.)

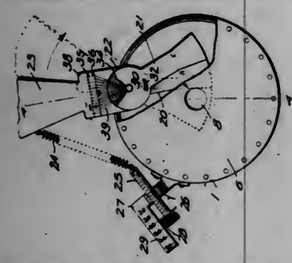


1. A by-pass valve comprising a valve casing having main inlet and outlet passages, a by-pass inlet passage, and a vent passage, a rotatable valve core having a through passage normally connecting the said main inlet and outlet passages, a by-passage for connecting the by-pass inlet passage with the main outlet passage and a vent conduit for connecting the main inlet passage with the said vent passage, a diaphragm closing the said by-pass inlet passage, a plunger in said by-pass inlet passage, and a cam on valve core for moving said plunger against the diaphragm to puncture the same.

2. An oxygen gas supply system including a source of oxygen supply, a flow-regulator connected with the said source of oxygen supply, a delivery tube connected with said flow-regulator, an auxiliary conduit directly connecting the oxygen supply source with the said delivery tube and by-passing the said flow-regulator, and a two-way

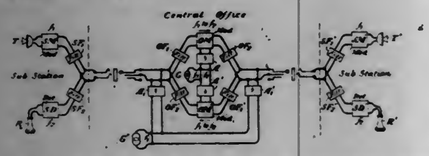
control valve at the junction of the auxiliary conduit and the delivery tube having an open-air vent adapted to be placed into communication with the said flow-regulator automatically upon turning the valve to open the auxiliary conduit.

1,917,959. AIR SPEED ANNUNCIATOR. JESSE E. ESHBAUGH, Flint, Mich. Filed May 9, 1932. Serial No. 610,259. 16 Claims. (Cl. 116—57.)



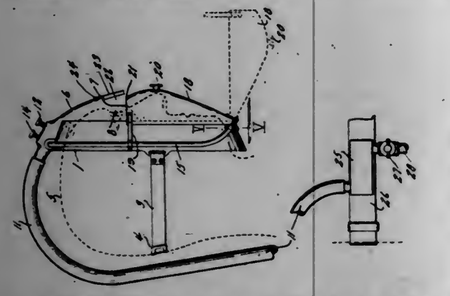
1. The combination with a siren of means responsive to dynamic air pressure created by relative motion between air and siren for cutting off the air supply to the siren.

1,917,960. FOUR WIRE CIRCUITS. LLOYD ESPENSCHIED, Kew Gardens, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 24, 1931. Serial No. 532,585. 20 Claims. (Cl. 179—1.)



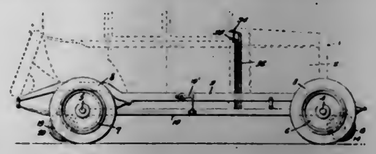
1. In a system in which a plurality of subscribers' lines are arranged to be interconnected in pairs for two-way conversation through the same switching exchange, the method which consists in transmitting from the subscriber's station over all of the lines in the same frequency range, and receiving at the subscriber's stations over all of the lines in a different common frequency range to that used for transmitting.

1,917,961. PROTECTIVE MASK. HARRY A. FEE, Adrian, Mich. Filed Jan. 2, 1931. Serial No. 506,159. 9 Claims. (Cl. 128—145.)



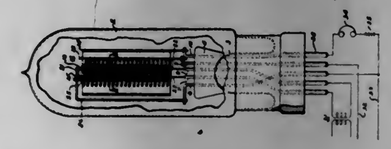
1. A mask comprising a face encircling band forming a frame having a visor, a lower face portion shield hinged to said frame extending upward to leave a clear space between said shield and visor, and an air supply to said mask having a discharge within the shield.

1,917,962. AUXILIARY CHASSIS FOR AUTOMOBILES. WAVERLY LEE FORREST, Dare, Va. Filed Oct. 15, 1930. Serial No. 488,940. 1 Claim. (Cl. 280—150.)



An auxiliary chassis for an automobile comprising a frame, means for attaching the same to the axles of a motor vehicle, front and rear axles arranged in spanning relation to said frame, wheels carried by said axles, and means effecting yielding connection between the axles and said frame at opposite sides at opposite ends of the latter, said means each comprising an inverted open-ended cylinder secured to the under side of the frame to depend therefrom, a stem disposed on top of and secured to the axle and having a shouldered portion disposed within the cylinder, the open end of the cylinder being provided with a removable cap having a clearance opening for the passage of said stem, spaced abutting members carried respectively by the cylinder at the closed end and by the stem above the shouldered portion, and an expansion spring disposed in surrounding relation to said members and compressed between the closed end of the cylinder and said shoulder.

1,917,963. HOT CATHODE ELECTRON DISCHARGE TUBE. HUBERT M. FREEMAN, East Pittsburgh, Pa., and WALLACE G. WADE, New York, N. Y., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed Jan. 8, 1923, Serial No. 611,263. Divided and this application filed July 6, 1926. Serial No. 120,579. Renewed Apr. 24, 1931. 17 Claims. (Cl. 250—27.5.)



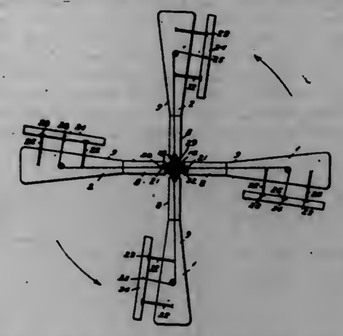
5. In a hot-cathode electron-discharge tube, a cathode structure comprising a tubular elongated member having an electron-emitting conducting cathode surface, said member having flattened sides, and heating means in the interior of said member and substantially insulated from the adjacent portions thereof.

1,917,964. PROCEEDING FOR BURNING IN PILES THE ARTICLES OF NONGLAZED PORCELAIN ESPECIALLY SUITABLE FOR COOLING USE. GIOVANNI FUSCHI, Castelli-Teramo, and MAURIZIO KORACH, Bologna, Italy. Filed Oct. 9, 1930. Serial No. 487,630. 5 Claims. (Cl. 25—156.)

1. A process of producing porcelain articles which comprises the steps of placing an anti-adhesive mixture of refractory and glutinous substances on said articles and submitting said articles with said anti-adhesive mixture, in piles, to a temperature at which vitrification takes place.

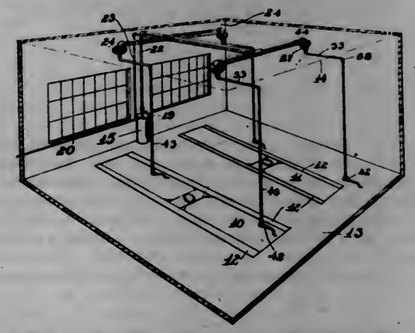
1,917,965. HELICOPTER CONTROL AND STABILIZER. WILLIAM F. GERHARDT, Grosse Ile, Mich. Filed Sept. 4, 1930. Serial No. 479,771. 9 Claims. (Cl. 244—19.)

1. In combination a blade screw comprising a blade revolvable about the vertical axis of said screw and movable to permit of a change of pitch, and means for effecting a sequence of changes in the pitch of said blade during each revolution of said screw, said means, including



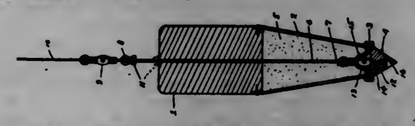
auxiliary airfoil carried by said blade and angularly disposed thereto, being presented endwise in the direction of movement of said blade.

1,917,966. LUBRICATING SYSTEM. RUSSELL J. GRAY, Minneapolis, Minn. Filed May 20, 1931. Serial No. 538,803. 15 Claims. (Cl. 221—47.1.)



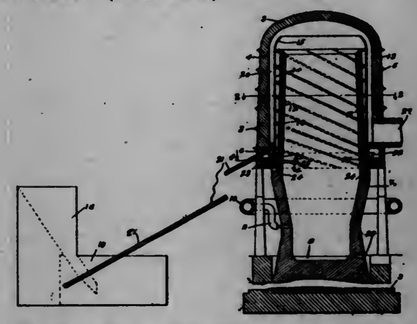
4. Lubricating means, including a stationary overhead swivel support, carried by any suitable supporting structure, a remote source of lubricant, means for automatically delivering lubricant from said remote source to said swivel support, under pressure, a lateral arm pivotally carried by said swivel support, a lubricant conduit carried by said arm, a pendent, flexible lubricant conduit in continuation thereof, extending downwardly from said arm at a point spaced substantially from the pivotal center thereof, and means at the lower end of said pendent flexible lubricant conduit for controlling the discharge of lubricant and for boosting the pressure of the discharging lubricant, above the pressure at which said automatic lubricant delivering means has delivered said lubricant to said swivel support.

1,917,967. CASTING FLOAT. SYLVESTER GREEN, Vauxhall, N. J. Filed Jan. 17, 1933. Serial No. 652,227. 3 Claims. (Cl. 43—49.)



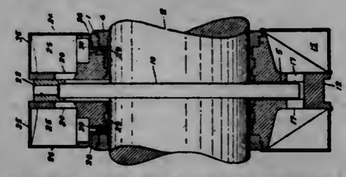
1. A float of the class described comprising a buoyant body, a shell connected to the lower end of the body and adapted to contain weight material, a valve for closing the lower end of the shell, a rod connected with the valve and sliding through the body and having means on its upper end to connect to a fishing line.

1,917,968. BLAST FURNACE. FRANK C. GREENE, Chicago, Ill. Filed June 27, 1931. Serial No. 547,385. 15 Claims. (Cl. 266—27.)



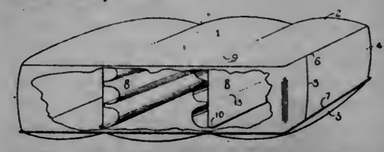
1. A blast furnace comprising a furnace body, a casing concentrically spaced from the inner wall of said furnace body, means for feeding a charge into the lower end of the space defined by said wall and said casing, and means for discharging said charge from the upper end of said space into the interior of the furnace.

1,917,969. OILING SYSTEM FOR BEARINGS. FLOYD T. HAGUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 19, 1930. Serial No. 503,372. 8 Claims. (Cl. 308—127.)



8. An oiling system for a bearing comprising an upper oil reservoir mounted on each end of the bearing, each of said reservoirs having passages for conducting oil from said reservoir directly to the bearing surface and a plurality of oil pipes extending from each of said reservoirs to the opposite end of said bearing at a point below the top of the bearing.

1,917,970. CUSHION. CHARLES L. HAYES, Brooklyn, N. Y., assignor to Bella and Company, Brooklyn, N. Y., a Partnership composed of Paula Bella and George Bella. Filed Nov. 14, 1930. Serial No. 495,604. 10 Claims. (Cl. 155—184.)



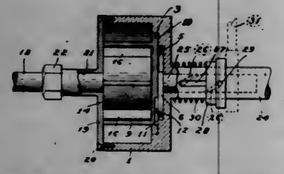
9. A cushion of the character described, comprising a casing, feathers in the casing, and double partitions therein each arranged so as to form a vertically disposed series of longitudinal air-cells for improving the shape-keeping quality of the cushion.

1,917,971. COLLAR FOR PERSONAL WEAR. HENRY SELBY HELE-SHAW, London, England. Filed Mar. 1, 1932, Serial No. 596,098, and in Great Britain Dec. 8, 1931. 5 Claims. (Cl. 2—138.)



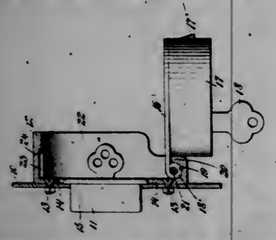
1. A method of producing a stiff double collar with freedom for tie manipulation from a single piece of stiff plane material by bending the material along a turn-over line to form it into an inner and an outer band, and providing the collar with curvature by impressing, while the inner band is at a considerable angle to the outer band, in the inner band and along approximately its whole length a large number of closely-disposed tapering corrugations of small arc blending into one another laterally and extending transversely from the lower edge of the band approximately to the line of the turnover so as to shorten the overall length of the lower edge of the band without, to any appreciable extent, altering the actual size of the collar or stretching the material of the inner band.

1,917,972. HYDRAULIC CLUTCH OR BRAKING DEVICE. FLOYD HENRIOT, Klamath Falls, Oreg. Filed May 16, 1931. Serial No. 537,948. 4 Claims. (Cl. 192—58.)



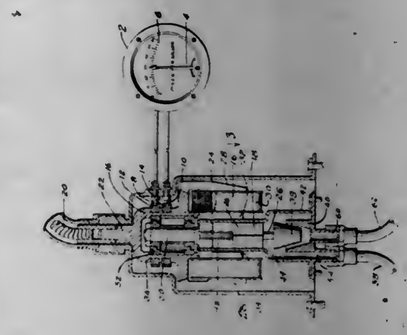
1. A rotatable shaft carrying a concentric drum with an axially aligned sleeve, the end of the drum disposed adjacent to the shaft having a circular recess eccentrically disposed, a disc rockable in the recess and having an eccentric cylinder extending from end to end of the drum, means for rocking the disc in the recess for moving the cylinder from a concentric to an eccentric position with respect to the drum, a rotatable shaft mounted in the sleeve and carrying a concentric rotor that is smaller in diameter than the cylinder and is rotatably mounted therein, diametrically extending vanes carried by the rotor and projecting beyond its periphery, and a fluid filling the cylinder.

1,917,973. LOCK FOR AUTOMOBILES, ETC. THOMAS S. HUGHES, Patchogue, N. Y. Filed Sept. 12, 1931. Serial No. 562,449. 1 Claim. (Cl. 70—8.)



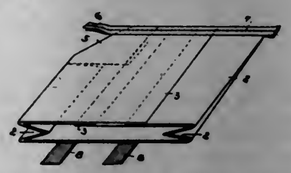
In combination with a panel having a lock thereon, a housing secured to the panel, and surrounding the key hole of the lock, said housing having walls extending perpendicularly from the panel with the walls at one end of the housing cut away and said housing having a semi-circular socket at the cut away end, a lock casing of a size to fit within the housing and including a base plate extending from one end of the lock casing and rolled to form a hinge member having a bearing in the socket, a wall of the socket overlying the rolled hinge member, a hinge pin extending through the rolled extension and walls of the housing, a latch on the lock casing opposite the plate extension and a keeper in the housing for the latch.

1,917,974. FLOW METER. HENRY B. INGLIS, Brooklyn, N. Y., and CHARLES L. PAULUS and ROBERT KAUCH, Dayton, Ohio. Filed Mar. 25, 1930. Serial No. 438,852. 3 Claims. (Cl. 235—1.)



1. In a device of the class described a rotatable inductance coil controlled in accordance with the speed of an operable device, flux-producing means concentrically disposed with respect to said coil and movable along the common axis thereof in accordance with the rate of fuel consumed by said operable device for producing a variable magnetic field, said coil being in inductive relation with said flux-producing means for effecting a voltage which corresponds to the instantaneous relation of the speed of the operable device and the fuel consumed in operating the same, and means for visibly continuously indicating said relation.

1,917,975. PAPER BAG. ROY W. JAITE, Lakewood, Ohio. Filed Oct. 4, 1930. Serial No. 486,404. 7 Claims. (Cl. 229—55.)

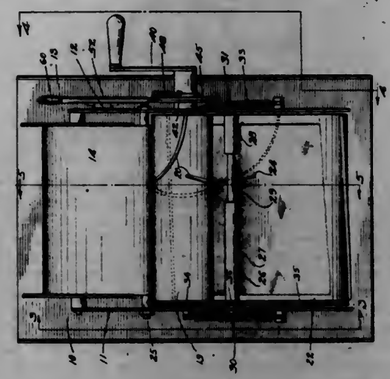


1. A paper bag, having its opposite ends sewed shut and formed with an overlapping seam extending longitudinally in one side wall, and a re-enforcement strip extending lengthwise of the opposite side wall and sewed at its ends to the corresponding ends of both walls.

1,917,976. DISPENSING DEVICE. RICHARD P. JOHNSON, Long Beach, Calif. Filed Oct. 25, 1930. Serial No. 491,171. 1 Claim. (Cl. 164—68.)

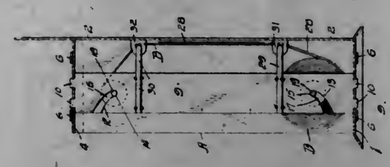
A device for manufacturing and forming a paper product which comprises a spool rotatably supported on fixed bearings, a rod disposed parallel to the axis of the spool

and positioned so that its surface will be substantially in line with the maximum circumference of a roll of paper positioned on said spool, a roller disposed beneath the rod and over which the ribbon of paper is led after it has been led around and beneath the rod, cutting grooves formed in said roller, a tension roller yieldably held against the ribbon of paper led around said cutting groove roller and means for guiding said tension roller so that it will move radially with relation to the surface of the cutter groove roller, a cutting roller disposed beneath the cutter groove roller and carrying a blade adapted to



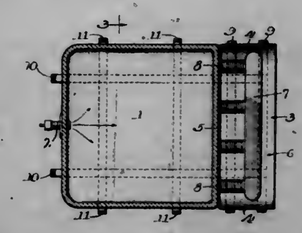
mesh with the groove in the cutting groove roller, means yieldably holding the cutter groove roller and the blade carrying roller in contact with each other whereby the ribbon of paper which is led between them may be broken along a line of severance as the blade meshes with the cutting groove in the opposite roller, and a second tension roller yieldably held against the roller carrying cutter blade and at a point on the opposite side of the line of severance from the first mentioned tension roller, said second named tension roller moving radially with relation to the axis of the blade carrying roller.

1,917,977. COMIC STRIP DISPLAY DEVICE. FRANK N. KALERT and JOSEPH SUDA, St. Louis, Mo. Filed Apr. 8, 1932. Serial No. 603,960. 4 Claims. (Cl. 40—86.)



1. A comic strip display device comprising, in combination, a housing having a sight opening, a pair of opposed uprights within the housing, said uprights each having a pair of converging slots open to the rear edges of the uprights, a pair of rolls, trunnions on the ends of said rolls receivable in the converging slots of the uprights for rotatably supporting the rolls, endless resilient rubber bands riding over the ends of said rolls so that rotation of one of the rolls imparts like rotation to the other roll, a strip of adhesively coated flexible ribbon paper detachably secured at opposite ends to said rolls and to which is adapted to be adhesively secured a comic strip cut into individual sections to be moved in successive order past said sight opening in the housing as the paper strip is unwound from one roll onto the other roll.

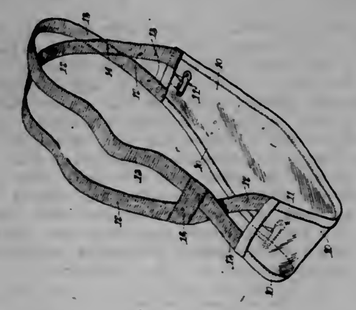
1,917,978. AERIAL SIGN. WENDELL C. KERNER, Princeton, Ill. Filed Feb. 27, 1933. Serial No. 658,697. 29 Claims. (Cl. 40—127.)



1. An aerial sign of the buoyant type, in combination, a shape formed of light rigid material, a buoyant means of substantial depth for supporting such shape forming a backing therefor and having the outline of such shape, means to inflate such buoyant means, and means to rigidly connect composite shapes in series.

17. An aerial exhibition device comprising a balloon of predetermined frontal contour, a facing member thereon of the same contour registering therewith and together creating a composite character of substantial depth.

1,917,979. CATAMENIAL BELT. ANNA B. JAMES KELLY, New York, N. Y., assignor to Scofield & James, Cleveland, Ohio, a Co-partnership composed of Anna B. James Kelly and Sherman W. Scofield. Filed Nov. 9, 1929. Serial No. 406,039. 1 Claim. (Cl. 128—291.)

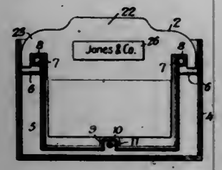


In a device of the character described, the combination with the pad carrying body, of a mounting belt composed of two hip engaging straps secured at their ends to the carrying body and crossed at points near but beyond the respective ends of said body whereby the strap secured at its ends to the right side of the body is disposed to pass around the left side of a wearer, and the strap secured at its ends to the left side of the body is disposed to pass around the right side of said wearer, and means to secure the straps together adjacent the points at which they cross, one said securing means comprising a cross piece sewed across and to the straps adjacent the point at which the straps cross, said straps where crossed adjacent said cross piece being free to move one over the other.

1,917,980. VERTICAL FILING SYSTEM. WILLIAM C. KELSEY, Burns, Oreg. Filed Mar. 6, 1930. Serial No. 433,685. 10 Claims. (Cl. 129—16.)

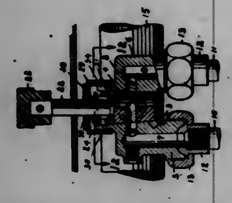
1. In a filing system of the character described, a file box comprising two relatively outer and inner telescopically connected sections, one of said sections having

its side walls provided with horizontal guide webs, and guide rails overhanging said webs and the other section having guide flanges overhanging and slidably engaging



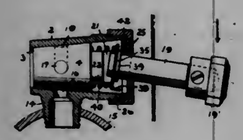
said rails, means for adjusting the box sections to lengthen or shorten the box, and file pockets having suspending members to engage said guide rails.

1,917,981. GAS VALVE. JOSEPH V. KINDL, Cleveland, Ohio, assignor to The W. J. Schoenberger Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 20, 1931. Serial No. 545,698. 7 Claims. (Cl. 251—165.)



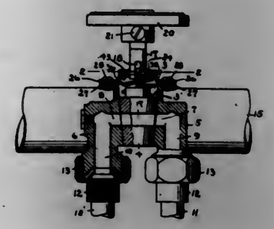
1. A valve, comprising a valve body having a valve seat and a hollow extension axially aligned with said seat, a recess in the circular top edge of said extension forming stop shoulders, a slot in the wall of said extension, a valve rotatably confined within said seat, a shaft slidably interlocked with said valve, and spring actuated means axially aligned with said shaft and said valve body and co-operating with said shoulders of said recess and said slot for limiting the rotation of said shaft when said valve is rotated to its open position and locking said shaft by automatic shifting of said means with respect to said shaft and said valve body when said valve is rotated to its neutral position, said locking means being disengageable by shifting said shaft axially.

1,917,982. GAS FIXTURE. JOSEPH V. KINDL, Cleveland, Ohio, assignor to The W. J. Schoenberger Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 10, 1931. Serial No. 568,154. 8 Claims. (Cl. 251—165.)



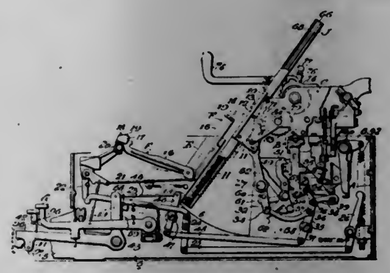
5. A valve comprising a valve body, a rotatable valve within said body, a shaft for operating said valve slidably tiltably and non-rotatably interlocked therewith, and means tiltable with respect to said valve and shaft, and associated therewith, for automatically locking said shaft and valve against rotation when said valve is in neutral position, said locking means being disengageable by tilting said shaft with respect to said valve and body.

1,917,983. GAS VALVE. JOSEPH V. KINDL, Cleveland, Ohio, assignor to The W. J. Schoenberger Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 10, 1932. Serial No. 610,370. 6 Claims. (Cl. 251—164.)



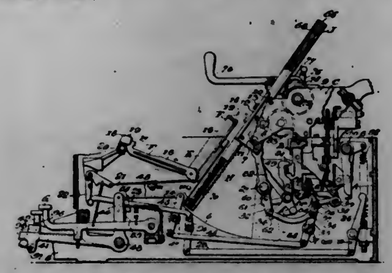
1. A valve, comprising a valve body having a valve seat and a hollow extension aligned with said seat, a valve plug rotatably confined within said seat, a shaft tiltably and non-rotatably interengaged with said valve plug, locking means slidably and non-rotatably interlocked with said valve plug and shaft for locking said valve plug and shaft against rotation, cover means non-rotatably attached to said hollow extension, a cut out portion in said cover means cooperating with said locking means and yielding means between said valve plug and said locking means for forcing said locking means toward said cover means away from said valve plug, said locking means being disengageable from the cut out portion of said cover means by tilting of said shaft.

1,917,984. TYPEWRITING MACHINE. JOHN J. KITTEL, St. Albans, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Original application filed Feb. 13, 1932, Serial No. 592,799, which in turn is a division of Serial No. 539,919, filed May 25, 1931. Divided and this application filed Sept. 9, 1932. Serial No. 632,451. 4 Claims. (Cl. 197—73.)



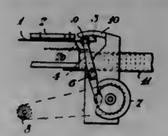
1. In a typewriting machine, the combination with a type carrier, of flat types mounted on said carrier and having printing faces disposed at an angle to each other, a flat platen normally disposed in a plane parallel to the printing face of one type when said type is in printing position and movable into another plane disposed in parallelism with the printing face of the other type when said other type is in printing position, means for moving the platen from one position to the other, means for locking the platen against movement in one printing position thereof, and means for line spacing the platen when in said locked printing position.

1,917,985. TYPEWRITING MACHINE. JOHN J. KITTEL, St. Albans, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Original application filed Feb. 13, 1932, Serial No. 592,799, which in turn is a division of Serial No. 539,919, filed May 25, 1931. Divided and this application filed Sept. 9, 1932. Serial No. 632,452. 4 Claims. (Cl. 197—73.)



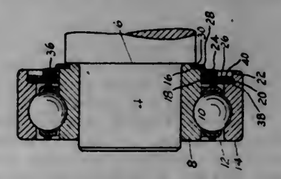
1. In a typewriter machine, the combination with a flat platen supported for swinging movements about a horizontal axis from one extreme printing position to another, means for moving the platen from one position to the other, means for locking the platen in one extreme position against swinging movement toward the other printing position, and means for line spacing the platen when in said locked printing position.

1,917,986. MEANS FOR COLLECTING FILLED MATCH BOXES. NILS AXEL LAGERHOLM, Jonkoping, Sweden. Filed Jan. 17, 1930, Serial No. 421,519, and in Sweden Feb. 11, 1929. 18 Claims. (Cl. 198—29.)



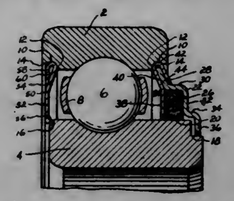
8. In a device for collecting filled match boxes, in which the boxes are fed in successive rows while resting on one of their flat sides, the combination of means to support said rows of boxes, a collecting table situated at a lower level than said supporting means, stationary means for guiding the rows of boxes to said collecting table, and rotatable means cooperating with said stationary means to turn alternate rows of boxes in an opposite direction to the other rows and after turning them deliver them to the collecting table, so that alternate series of boxes as collected upon said table will have the heads of the matches turned to opposite directions.

1,917,987. ANTIFRICTION BEARING AND SEAL. SAMUEL ROBERT LAROE, Bristol, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed Oct. 1, 1929. Serial No. 396,489. 21 Claims. (Cl. 308—187.)



1. In a unit handling device, a two part casing comprising a pair of rings having portions spaced apart to form a groove, and one of the rings having its outer portion arched to form an externally rounded, peripherally extending bead and an inwardly open, peripherally extending groove receiving the peripheral edge of the other ring; substantially as described.

1,917,988. BEARING AND GUARD THEREFOR. SAMUEL R. LAROE, Bristol, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed Feb. 4, 1932. Serial No. 590,839. 14 Claims. (Cl. 308—187.)



1. In a unit-handling sealing device, a two-part guard comprising a pair of plates having walls spaced apart to form a groove, the plates also having tapering walls engaging one another, and one of the plates having a portion bent to form an inwardly open groove receiving the peripheral edge of the other plate; substantially as described.

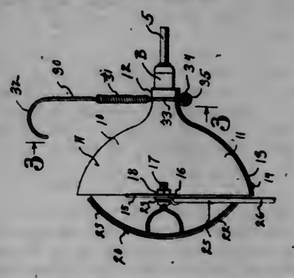
1,917,989. TAG. MORTIMER H. MARGOLUIS, Mamaroneck, N. Y. Filed Mar. 11, 1932. Serial No. 598,264. 9 Claims. (Cl. 40—23.)

4. A tag comprising a plate, and a spring member, said spring member comprising a portion lying along one side of the plate, extensions on the said portion passing through the plate and lying along the remaining side of the plate,



and legs proceeding from the extensions and passing through the plate to the said one side of the plate and over the said portion, and bowed parts on the legs engaged with the said one side of the plate for clamping an article between the legs and the said one side of the plate.

1,917,990. LAMP REFLECTOR. EDWARD H. MATTISON, Marshfield, Wis. Filed Jan. 21, 1932. Serial No. 587,883. 2 Claims. (Cl. 240—8.18.)



1. In a device of the class described, a reflector having laterally extending lips on its opposite sides, a guard for the front of the reflector including a pair of com-

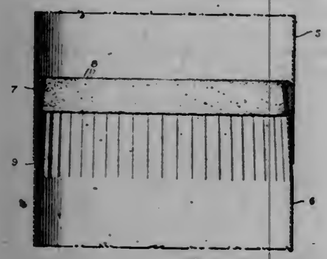
panion members each formed from a single wire length including a plurality of angularly extending arms, the arms of one member being arranged between the arms of the other member, the ends of the wires of each member being twisted together and provided with eyes and fastening elements extending through the eyes and lips.

1,917,991. VACUUM TUBE FILAMENT STRUCTURE. FREDERICK S. MCCULLOUGH, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 16, 1922, Serial No. 588,558. Renewed Nov. 9, 1928. 12 Claims. (Cl. 250—275.)



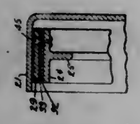
1. A filamentary member comprising a conductive supporting rod and a relatively fragile oxide-coated strip having a higher specific resistance wrapped therearound, the relative conductivities and dimensions of said rod and said strip being such that when they are energized in parallel the rod shall be heated to a temperature not substantially lower than the temperature of said electron-emitting element when the latter is heated to thermionic activity.

1,917,992. PIPE JOINT. LOUIS H. MENNE, Quincy, Ill. Filed June 7, 1930, Serial No. 459,789. Renewed Dec. 10, 1932. 8 Claims. (Cl. 285—185.)



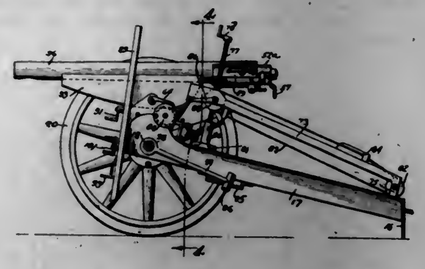
1. A pipe section having a hardened adhesive coating on one end and exposed abrasive material embedded in said coating to frictionally engage another pipe section having a slip joint with the first named pipe section.

1,917,993. BRAKE ELEMENT. FRED C. MORRIS, San Francisco, Calif. Original application filed Oct. 5, 1928, Serial No. 310,471. Divided and this application filed Oct. 1, 1930. Serial No. 485,673. 4 Claims. (Cl. 188—250.)



1. In combination, a brake element provided with a supporting surface, and a brake lining secured to said surface in generally spaced relationship by a spacer member, said member comprising a strip of material substantially co-extensive with said lining and composed of a layer of rubber and a layer of fabric.

1,917,994. BREECH LOADING ORDNANCE. JOSEPH OSIP, Northampton, and JOHN KOLEMBA, Mount Tom, Mass. Filed Sept. 13, 1932. Serial No. 632,976. 15 Claims. (Cl. 89—40.)

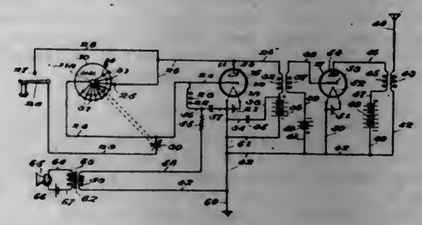


1. In a breech loading cannon, a wheeled carriage, a support shiftable transversely of the carriage, a cannon and carrying frame with the latter horizontally pivotally mounted on the support, a frame plate on the wheeled carriage, the transversely shiftable support being of substantially U-shape with a bottom wall and perpendicular side walls and guide shafts on the carriage for the support.

13. In a breech loading cannon, a wheeled carriage, a cannon carried thereby, breech mechanism including a breech bolt and an end opening breech chamber in the cannon, a rack bar on the breech bolt and a manually operable pinion on the cannon engageable with the rack bar for moving the breech bolt into and out of the breech chamber, a sleeve rotatable on the breech bolt and cooperating means carried by the sleeve and cannon for retaining the breech bolt in the breech chamber.

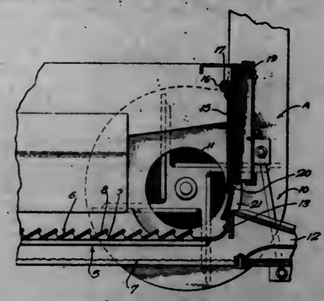
15. In a breech loading cannon, a wheeled carriage, a cannon shiftably carried thereby, a guard wall at the forward end of the carriage having an opening through which the cannon extends and guard plates slidable into contacting relations with the cannon for closing the opening when the cannon is shifted into different positions.

1,917,995. RADIO TELEPHONY. HERBERT S. POLIN, San Francisco, Calif., assignor, by direct and mesne assignments, to International Radiophone Corporation, Washington, D. C., a Corporation of Delaware. Filed May 21, 1929. Serial No. 364,838. 20 Claims. (Cl. 250—6.)



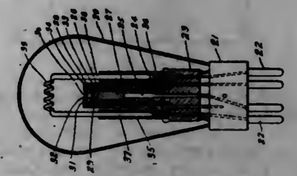
1. A system of radio telephonic communication comprising a series of subscribers' stations, each having calling means including a manually operated dial capable of emitting a sequence of impulses of certain fixed wave lengths, and in an order determined by the movements of the dial, the movements of the dial also simultaneously establishing a frequency on which conversation can be carried on, and a receiving circuit which is responsive, at each station, only to a particular one of such sequences, whereby the signal of only that subscriber who is called will be operated.

1,917,996. CORN HUSKER. AUGUST ROSENTHAL, West Allis, Wis., assignor to Rosenthal Corn Husker Co., West Allis, Wis. Filed Oct. 17, 1930. Serial No. 489,381. 8 Claims. (Cl. 209—318.)



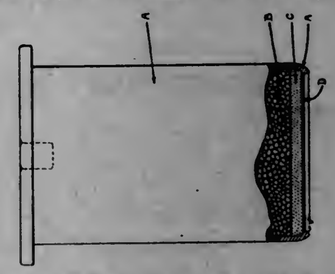
3. In a corn husking machine having a shaker trough and an outlet for receiving cut material from the trough, a plate hingedly mounted above and independent of the shaker trough and extending diagonally across the same inclining toward the outlet, and a flexible apron arranged above the trough carried by the lower end of the plate for engagement with the trough during the movement thereof as and for the purpose specified.

1,917,997. ELECTRIC DISCHARGE DEVICE. STEPHAN P. SASHOFF, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 31, 1930. Serial No. 458,850. 7 Claims. (Cl. 250—27.5.)



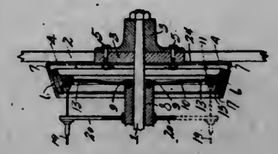
1. An electrical discharge device comprising an anode, a cylindrical insulator surrounding said anode, said cylinder having a perforated end, a cap on the perforated end of said cylinder acting as an electrode and an incandescible cathode having its axis substantially normal to the axis of said anode.

1,917,998. BLANK CARTRIDGE. WALTER O. SNELLING, Allentown, Pa., assignor to Trojan Powder Company, a Corporation of New York. Filed Feb. 5, 1932. Serial No. 591,023. 2 Claims. (Cl. 102—42.)



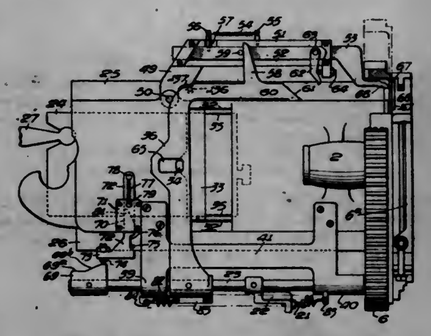
2. A blank cartridge comprising a metallic shell, a charge of explosive within such shell and a closure wad of an exposive composition the outer surface of which is coated with a metallic protecting film.

1,917,999. BRAKE. CHARLES M. SPEAR, New Carlisle, Ind. Filed Sept. 27, 1929. Serial No. 395,681. 8 Claims. (Cl. 188—71.)



1. In a brake, a conical brake drum, a rigid multi-sectional conical brake shoe disposed in said drum in spaced relation thereto, said brake shoe being adapted for assembly and disassembly through the small diameter end of said drum, a spring disc mounted fixedly in spaced relation to said drum at its center and mounting said shoe, said spring disc having a central bulge in the direction of the taper of said drum and a concentric annular corrugation adapted to accommodate axial flexing of said disc forming a margin for said bulge, a rigid reinforcing ring secured to the outer side of said disc at the periphery thereof, and means adapted to axially flex said spring disc to bring said brake shoe into bearing contact with the small diameter portion of said brake drum.

1,918,000. AUTOMATIC EJECTOR SELECTING MECHANISM FOR TYPOGRAPHICAL MACHINES. SAMUEL E. SPERRY, Hollis, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 3, 1931. Serial No. 566,740. 20 Claims. (Cl. 199—52.)

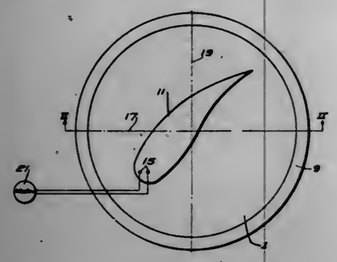


1. In a typographical machine having a mold carrier operative to bring a slotted slug casting mold into active position, means for controlling the mold positioning operation of the mold carrier, and slug ejecting mechanism capable of being set to conform with mold slots of different lengths, means connected to said mold carrier controlling means to operate concurrently therewith and controlled independently of said mold carrier controlling means according to the length of the slot in the mold brought into active position by the mold carrier to set the ejecting mechanism to conform with such mold.

1,918,001. MEASURING APPARATUS. MORRIS STONE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 28, 1930. Serial No. 477,321. 6 Claims. (Cl. 175—183.)

5. The method of determining the stresses in a prismoid that is under the action of a given set of torsional forces,

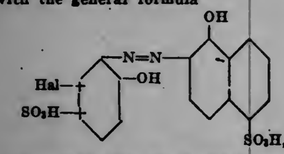
comprising the steps of constructing a plate having the contour of the cross-section of said prismoid, said plate having a predetermined electrical conductivity, subject-



ing said plate to a predetermined electrical voltage distribution and measuring the characteristics of the voltage distribution developed in said plate.

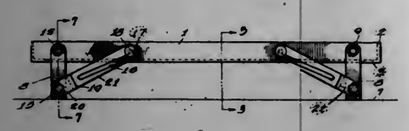
1,918,002. CHROMIFEROUS AZO-DYESTUFFS AND PROCESS OF MAKING SAME. FRITZ STRAUB and ERNST BRUNNER, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Filed June 30, 1932, Serial No. 620,307, and in Switzerland Sept. 29, 1931. 6 Claims. (Cl. 260—12.)

4. Chromiferous azo-dyestuffs, which azo-dyestuffs correspond with the general formula



which products form violet-brown powders which dissolve in water and dilute alkalies to violet and in concentrated sulfuric acid to green solutions, dyeing wool blue-violet tints of good fastness properties.

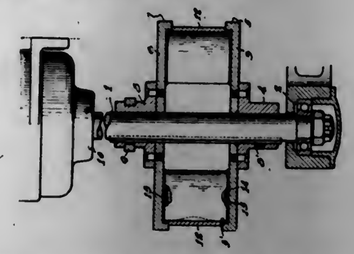
1,918,003. PLATFORM FOR LIFT TRUCKS. ROBERT BROOKS TAYLOR and LESTER LEMUEL GUINN, Kapaa, Territory of Hawaii. Filed Mar. 31, 1931. Serial No. 526,702. 3 Claims. (Cl. 248—41.)



1. In a platform of the character described, a frame, legs swingably secured thereto, and braces pivoted to the legs and adapted for engagement with the frame, the confronting surfaces between the legs and the braces having depressions and raised surfaces adapted for registry when the legs are moved into extended or folded position for holding the legs against movement.

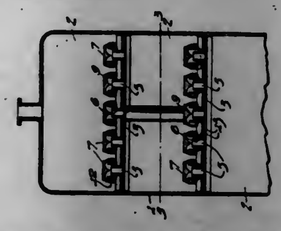
1,918,004. MACHINE AND METHOD FOR REMOVING DENTS FROM FILLED CANS. ROBERT BROOKS TAYLOR, Kapaa, Territory of Hawaii. Filed Nov. 20, 1931. Serial No. 576,354. 7 Claims. (Cl. 153—32.)

1. A machine for removing dents from cans comprising a revolvable platform having an annular flange, a cover plate adjustably mounted in coaxial relation therewith having a registering annular flange and a plurality of forms interposed between the platform and the plate and held by the flanges for forming cans bearing thereagainst when the platform is rotated.



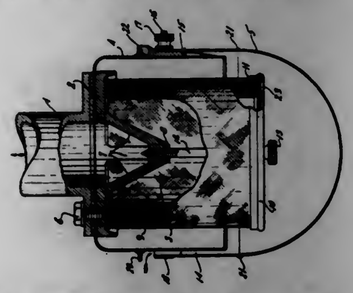
2. The method of removing dents from a filled can which consists in imparting revolving motion to the can whereby the contents are urged against the dented section.

1,918,005. BUBBLE CAP. KENNETH M. URQUHART, Norfolk, Va. Filed Feb. 2, 1932. Serial No. 590,461. 8 Claims. (Cl. 261—114.)



1. Apparatus of the character described comprising a tower, slotted fractionating plates spaced from each other therein, said plates having upstanding portions at the sides of the slots forming a gas passage, a cap covering said passages and partially enclosing said upstanding portions, said cap having two interior substantially semicircular top and side wall areas terminating in a wedge-shape intermediate beak portion, said beak portion extending downwardly toward said upstanding portions, and pockets formed in said cap for trapping liquid particles draining from said wall areas.

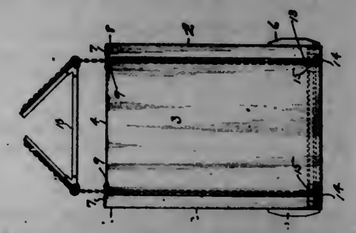
1,918,006. AIR CLEANER. GEORGE M. WALTON, Cleveland, Ohio, assignor to Air Maze Corporation, Cleveland, Ohio, a Corporation of Delaware. Filed Jan. 26, 1931. Serial No. 511,228. 8 Claims. (Cl. 183—10.)



1. In an air cleaner of the class described, a frame adapted for attachment to a downwardly opening air outlet, a housing comprising an upper member secured

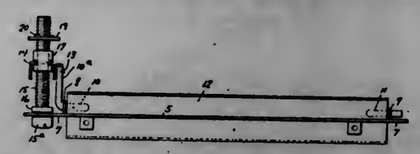
to said frame and opening downwardly and a lower member opening upwardly and detachably secured to said upper member with its mouth about that of the upper member to provide an annular passage opening leading downwardly into said housing, said lower housing member being adapted to contain liquid at a level below that of the mouth of said upper housing member, and air maze filter means detachably secured to said frame within said housing and extending downwardly therein below the liquid level of the lower housing member.

1,918,007. BOTTOM LIFT CONTAINER. GRAHAM C. WOODRUFF, Bronxville, N. Y., assignor to The L. C. L. Corporation, a Corporation of Delaware. Filed Aug. 25, 1932. Serial No. 630,475. 19 Claims. (Cl. 294—67.)



1. In a lift-type container, a container, attachable and detachable lifting means for the container arranged externally of the container and comprising lifting members extending from a point above the container to a point in proximity to the bottom of the container and having a detachable hook connection with the bottom portion of said container, retaining means for holding said members in retaining engagement with the upper portion of the container, means for connecting said lifting means with a hoisting device, and means engaging said members for holding the same spread above the top of the container to maintain the same and the lifting strains in straight lines.

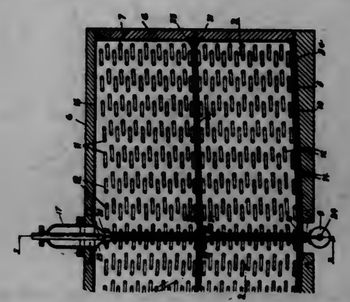
1,918,008. COMBINATION AIR DIFFUSER AND DAMPER. ROBERT C. WORRELL, Chester, Pa. Filed Dec. 4, 1931. Serial No. 579,008. 3 Claims. (Cl. 98—113.)



1. A device of the character described comprising a frame, slats pivotally connected with said frame, a screw extending through a member of the frame, means for retaining the screw in position on said frame member for rotative movement but not longitudinal movement, a member pivotally connected with said slats, and a nut on said screw slidably engaged with said member.

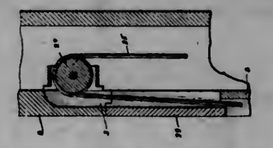
1,918,009. WAX SWEATING PLANT. HUGH LOGIE ALLAN, Syriam, Burmah, British India, assignor to The Burmah Oil Company Limited, Glasgow, Scotland, a Corporation of Great Britain. Filed July 25, 1930, Serial No. 470,639, and in Great Britain Oct. 2, 1929. 1 Claim. (Cl. 196—20.)

Apparatus for the heat treatment of wax or wax mixture comprising a covered vessel, transverse partitions dividing said vessel into superposed compartments, wax supports above the bottom of said vessel and above each partition, a multiplicity of heating or cooling fluid circulating pipes above each wax support, a series of superposed hollow vertical cells, one for each compartment, a drain passage along the underside of the bottom of said vessel and communicating with the bottom of the lowermost cell, an elongated funnel formed at the upper end of each cell, the lower end of each upper cell discharging



into the funnel of its subjacent cell, a charging duct extending through the cover of the vessel and opening into the uppermost cell, openings in each cell below the wax supports, an overflow opening in each compartment at the upper end of each cell, and tubular heating elements vertically disposed within said cells.

1,918,010. WINDOW FRAME COMPRISING SLIDABLE SASHES. TORVAL J. ANDERSON, Chicago, Ill. Filed Nov. 22, 1929. Serial No. 409,059. 12 Claims. (Cl. 20—11.)



1. In a window frame construction, side stiles on said frame, longitudinal grooves on the face of said stiles, said grooves extending from a point adjacent the top of the sill on said frame to a point intermediate its ends, said stiles also provided with inner passages adjoining the top of said grooves and extending to a point adjacent the top of said stiles.

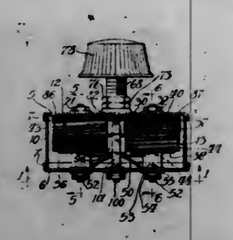
1,918,011. MAKING OR REMELTING ALLOYS OF ALUMINIUM AND IRON. JAMES WARWICK BAMFYLDE, London, England. Filed Sept. 10, 1930, Serial No. 481,071, and in Great Britain Oct. 21, 1929. 5 Claims. (Cl. 75—45.)

1. A process of making an alloy of aluminium and iron, comprising melting iron in the presence of fluorspar, removing the slag, and then adding aluminium and a further quantity of fluorspar.

1,918,012. LUMINOUS TUBE. LEO L. BECK, Westfield, N. J., assignor, by mesne assignments, to General Tube Lights Corporation, New York, N. Y., a Corporation of Delaware. Filed June 26, 1929. Serial No. 373,918. 4 Claims. (Cl. 176—122.)

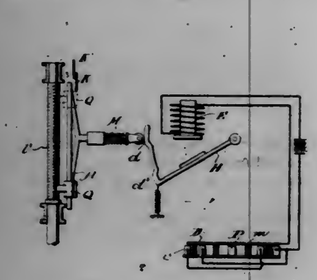
1. A positive column luminous tube light provided with electrodes comprising a mixture of neon and krypton in such proportions that the characteristic color of each gas is visible in the spectrum of the light emitted, the proportion of krypton being not more than one per cent of the mixture when the mixture is illuminated by direct or low frequency alternating current.

1,918,013. POTENTIOMETER RESISTANCE. LOUIS BERMANN, Melrose Park, Ill, assignor to Electrical Engineers Equipment Co., Melrose Park, Ill., a Corporation of Illinois. Filed May 19, 1930. Serial No. 453,680. 4 Claims. (Cl. 201—59.)



1. In a potentiometer, a pair of cylindrical drums disposed with their axes parallel, a resistance were wound on said drums and extending therebetween, one end of said wire being rigidly attached to each of said drums, means for making an electrical connection to each end of said wire, means for rotating said drums simultaneously to wind said wire from one to the other, and resilient, yielding stationary means for contacting with said wire as it passes from one drum to the other.

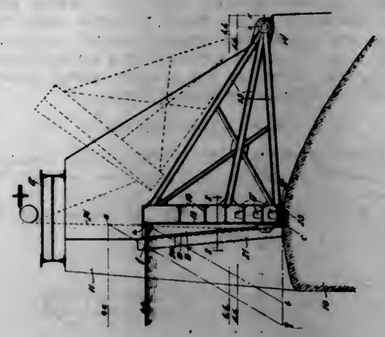
1,918,014. SAFETY DEVICE FOR ONE-MAN VEHICLES. GIUSEPPE BIANCHI, Firenze, Italy. Filed June 29, 1931, Serial No. 547,776, and in Italy July 8, 1930. 6 Claims. (Cl. 303—19.)



1. An electrical safety device for trains arranged to apply the brakes having in combination a base member, a tiltable plate positioned above said member, means extending from the base member for pivotally supporting the plate medially thereof, circumferentially disposed electrical contacts positioned between said member and said plate for closing an electric circuit when the plate is moved into engagement therewith, yieldable means normally maintaining the plate away from said contacts, and means upon the plate being depressed for closing the electrical circuit and applying the brakes.

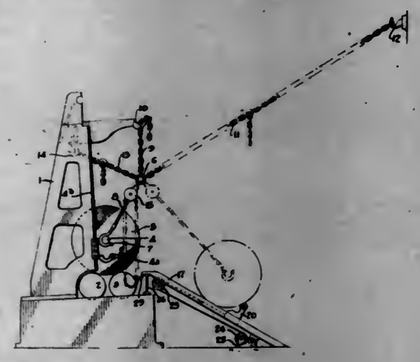
1,918,015. HYDRAULIC GATE. ERNEST L. BROOME, Tarrytown, N. Y. Filed Feb. 10, 1930. Serial No. 427,346. 5 Claims. (Cl. 61—25.)

1. A hydraulic gate installation comprising, in combination, a substantially flat deck plate; flat sealing members projecting forwardly from the opposite ends of the gate; rearwardly converging arms supporting said deck plate and pivotally mounted to rotate about an axis remote from the down stream side of the deck plate and in a plane below the normal center of hydraulic pressure against the deck plate whereby the gate will automatically



swing upwardly and open when the pressure against the deck plate exceeds the weight moment about the pivotal axis.

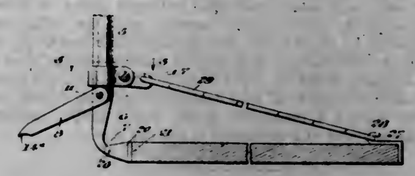
1,918,016. EJECTING AND DELIVERY DEVICE FOR WINDING MACHINES. JAMES A. CAMERON, Brooklyn, N. Y., assignor to Cameron Machine Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 22, 1931. Serial No. 531,864. 37 Claims. (Cl. 242—66.)



1. In a winding machine, two surface winding drums spaced apart and rotatable in the same direction, a winding shaft to be placed in the valley between the drums to accumulate a roll of wound material, bearings to sustain said winding shaft in the valley between the drums, and ejecting means, independent of the bearings, to move said winding shaft and roll out of the valley first upwardly and outwardly with respect to one of said drums whilst said roll is in contact with the surface of said drum, and then, when the roll passes the crest of the drum, to control, while admitting of, further outward movement of said shaft and roll with the latter in contact with the surface of the drum.

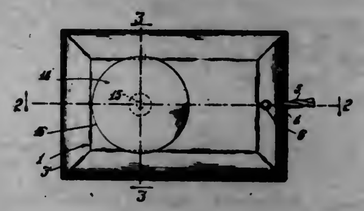
1,918,017. COMBINED FLOOR JACK AND CLAMP. HENRY K. CHRIST, Allentown, Pa. Filed May 22, 1930. Serial No. 454,762. 4 Claims. (Cl. 254—16.)

1. In a device of the character described, a lever, a head connected with the lower end of the lever for engagement with one side of a board, a dog pivotally connected with the lever a short distance from one end thereof and engageable with an object to hold the lever in operative position, a clamp attached to the lever adjacent its lower end and



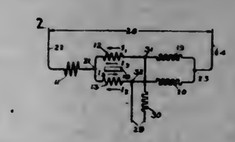
above the pivotal connection of said dog, and angle plate, and a flexible element engaged with the said clamp and said angle plate.

1,918,018. INVESTMENT VIBRATOR. WALTER J. CLARK, Chicago, Ill., assignor to Coe Laboratories Inc., Chicago, Ill., a Corporation of Illinois. Filed June 5, 1931. Serial No. 542,457. 3 Claims. (Cl. 259—72.)



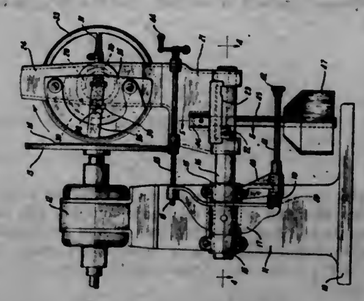
1. A vibrator comprising a heavy base member having integral top and side walls, the top wall having an opening therethrough and the latter being thickened along the lower portions thereof to increase the weight of the base member, vibrator mechanism mounted within the base member and including an armature disposed generally above the thickened portions of the side walls and having a portion projecting upwardly through the opening in said integral top wall, a flexible disc mounted on said projecting portion and having a varying cross-section whereby variation in intensity of vibration is produced at different points on the surface of the disc, and foot portions carried by the thickened sections of said side walls.

1,918,019. ELECTRICAL INSTRUMENT. CRAVEN H. CRAWFORD, Scotia, N. Y., and STEPHEN C. HOARE, Manchester, Mass., assignors to General Electric Company, a Corporation of New York. Filed Dec. 18, 1931. Serial No. 581,928. 6 Claims. (Cl. 172—245.)



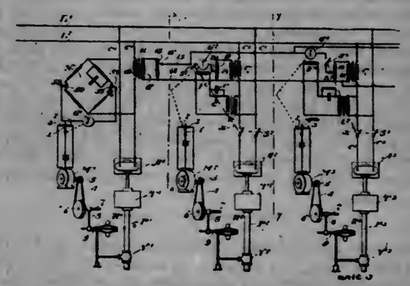
6. In combination with two independent sources of electric current, an instrument responsive to the relationship between electrical quantities in said sources comprising a pair of relatively rotatable elements, one of said elements comprising a field-producing coil and the other of said elements comprising a pair of mechanically connected current conducting coils electrically connected in series with respect to one of said sources and in parallel with respect to the other of said sources, said field producing coil being connected in series with said latter source.

1,918,020. BRAKE SHOE BURNISHER. ADIEL Y. DODGE, Chicago, Ill., assignor to Bendix-Cowdrey Brake Tester, Inc., Fitchburg, Mass., a Corporation of Delaware. Filed Jan. 27, 1930. Serial No. 428,582. 8 Claims. (Cl. 51—124.)



1. A grinding and burnishing machine for finishing brake shoes comprising a rotary grinding and burnishing disk, a member rotatable parallel and slidable at right angles to the face of the disk, a support positioned on the member for rotation about an axis parallel to the disk, means on the support for securing the work piece, means for rotating the work piece and means for locking the support against oscillation.

1,918,021. APPARATUS FOR CONTROLLING LOAD DISTRIBUTION. EDGAR D. DOYLE, Philadelphia, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 19, 1929. Serial No. 393,650. 14 Claims. (Cl. 171—119.)



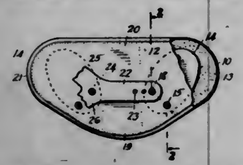
1. In a system comprising two or more alternators, a totalizing circuit including impedance traversed by current of magnitude representative of total output of said alternators, impedances traversed by currents of magnitude determined by the loads upon the respective alternators, and means individually to control said alternators comprising a frequency-responsive bridge in whose galvanometer arm there is included one of said individual load impedances and a selected part of said impedance of said totalising circuit.

11. A control system for an alternator comprising a frequency-responsive Wheatstone bridge for controlling the alternator, and means for introducing into a conjugate conductor of said bridge a voltage substantially proportional to the alternator load.

1,918,022. SUPPORTING PAD. FRAIM DREY, Brooklyn, N. Y. Filed June 5, 1928. Serial No. 283,052. 5 Claims. (Cl. 128—96.)

1. In a supporter of the character described, a pad, plates in said pad, a hollow, internally threaded bushing secured to each of said plates and passing to the exterior

of the pad, and narrow, elongated metallic bracing members removably secured to said bushings, and arranged on the outside of the pad, terminal outer ends on said members vertically spaced from each other and arranged adjacent the upper and lower edges of the pad respectively and adjacent one end of the pad, and providing a pair of



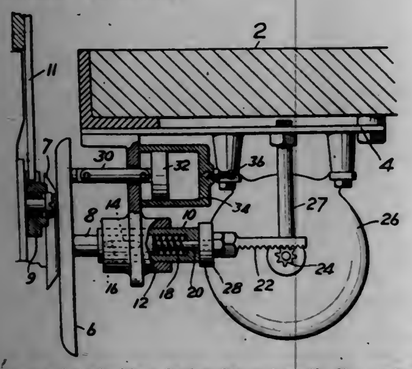
vertically spaced connective points at each end of the pad, to which securing straps may be connected, the ends of said members being normally free of and in spaced relation to said pad, but arranged inside of the edges thereof, and yielding under the stress applied thereto by a securing strap.

1,918,023. ELECTRICAL INSTRUMENT. HAROLD T. FAUS, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 23, 1931. Serial No. 576,678. 7 Claims. (Cl. 171—95.)



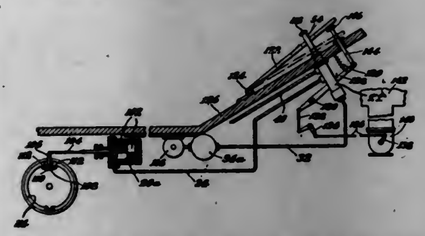
1. An electrical ratio instrument comprising a magnet, a pair of pole pieces therefor having substantially annular portions with a varying air gap therebetween, one pole piece substantially surrounding the other, a current conducting coil mounted to permit a portion thereof to move through said air gap, a rotatable shaft carrying said coil, a second current conducting coil mounted on said shaft and axially offset from said first coil and a second magnet, a pair of pole pieces therefor with a varying air gap through which the second coil moves, the arrangement being such that one coil moves through its air gap in the direction of increasing gap length while the other coil moves through its air gap in the direction of decreasing gap length.

1,918,024. ELEVATOR CONTROL. JOHN J. FOGARTY, Philadelphia, Pa., assignor to Jenkins Interlock Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 6, 1931. Serial No. 573,372. 1 Claim. (Cl. 187—1.)



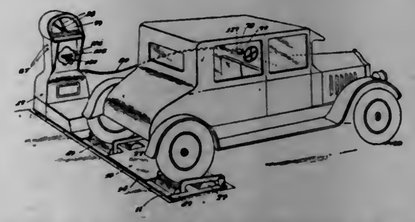
In an interlocking device for automatically controlled electric elevators in combination with a shaft provided with a landing and a gate therefor, and an elevator car, a shoe at the landing, connections whereby said shoe controls the gate, a shoe on the car adapted to engage the landing shoe, and means for controlling the position of the car shoe, said means including a torque motor, a pinion driven by the motor, a rack meshing with the pinion and connected to the car shoe whereby the motor moves the car shoe in one direction, a spring for moving the car shoe in the opposite direction, and a dash pot for controlling movements of the car shoe, said dashpot comprising a fixed cylinder having a restricted outlet, and a piston movable in the cylinder and connected to the car shoe.

1,918,025. BRAKE VALVE. FRANK P. FRANKFORD, Ridgefield Park, N. J. Original application filed July 18, 1930, Serial No. 468,860. Divided and this application filed Aug. 1, 1931. Serial No. 554,405. 3 Claims. (Cl. 192—3.)



1. An apparatus of the class described comprising a brake cylinder having a fluid actuated piston therein, a source of fluid pressure, a valve casing having a chamber extending longitudinally thereof, a valve plunger movable axially of said chamber, a duct communicating with a source of fluid pressure and with one end of said chamber so that the pressure tends to press the plunger toward the opposite end thereof, respective ports in said chamber communicating with atmosphere and said brake cylinder, said plunger controlling communication between said source of fluid pressure and the port leading to the brake cylinder and also controlling communication between the latter port and the port leading to atmosphere, a manually operable member having an apertured portion through which said plunger is adapted to extend, and gas throttle actuating means coacting with said manually operable member.

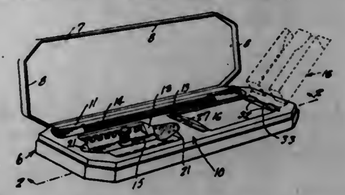
1,918,026. BRAKE TESTING MACHINE. JAMES B. FULLERTON and CHARLES F. ROSSETTER, Los Angeles, Calif., assignors, by mesne assignments, to Bendix-Cowdrey Brake Tester, Inc., a Corporation of Delaware. Filed June 13, 1927. Serial No. 198,414. 16 Claims. (Cl. 265—25.)



12. In the art described, a moving supporting device for vehicle wheels, a driving mechanism for said device, a weighing mechanism operatively connected to the supporting device and operated by the resistance to the movement of the said device, a rod connected to said weighing mechanism, a shaft having a pointer, a second shaft having a printing wheel, a chain interengaging sprocket

wheels on said shafts and the said rod, said chain being counterweighted, a shelf, a platen slidable in relation to said shelf, and a solenoid to actuate said platen.

1,918,027. RAZOR BLADE BOX. GILES C. FULLMER, Bridgeport, Conn., assignor to The Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed July 18, 1931. Serial No. 551,776. 7 Claims. (Cl. 206—16.)



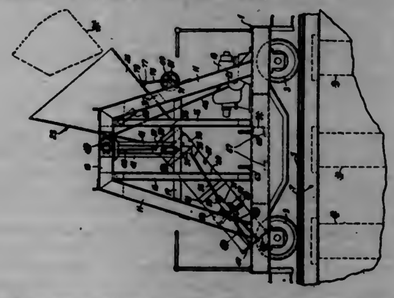
1. In a case of the class described, a body, a cover hinged to the body for movement between open and closed positions, a partitioning means in said body and having a wall spaced from the bottom thereof and having an opening therein, a razor blade box, means hinging said box at one end for movement into and out of said opening, and said box open at its free end to permit the razor blades to be taken therefrom and inserted therein without removing the box from the case.

1,918,028. WELDING ELECTRODE. ROBERT T. GILLETTE, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 10, 1932. Serial No. 628,169. 9 Claims. (Cl. 219—4.)



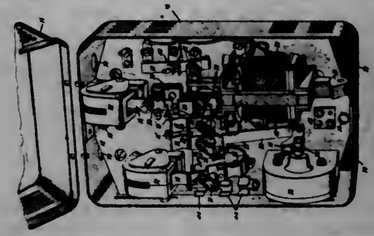
1. Welding apparatus comprising an electrode having a plurality of work engaging members, a cooperating electrode located opposite one of said members, and means responsive to the depression of said member by pressure applied thereto through the work by said cooperating electrode for extending the remaining members of said first mentioned electrode into firm engagement with the work.

1,918,029. TRAVELING LOADING DEVICE. GOTTFRIED GOETZ, Webster Groves, Mo., assignor to Ludwig Kern, Webster Groves, Mo. Filed July 21, 1932. Serial No. 623,704. 6 Claims. (Cl. 214—18.)



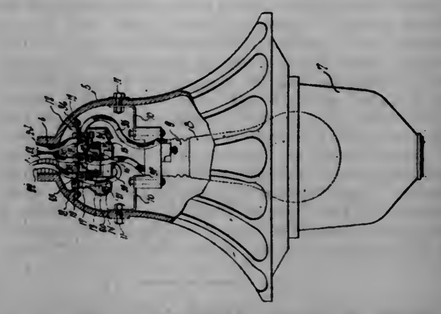
1. A loading device for retorts and the like comprising supporting means, charging means comprising telescoping sections adapted to be extended downwardly into the retort, cables supporting said charging means upon said supporting means, power means for paying out and taking in said cables to lower and raise the charging means within the supporting means, and trunnion joints by means of which said cables are attached to said charging means, whereby said charging means may be swung from its vertical axis in said supporting means.

1,918,030. CIRCUIT CONTROLLER. ROBERT W. GOFF, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 10, 1927. Serial No. 167,281. 15 Claims. (Cl. 200—97.)



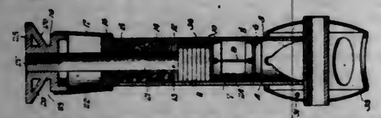
1. In a circuit controlling device, the combination of a plurality of contacts each movable from one circuit controlling position to a second circuit controlling position, an operating element movable quickly from one position to another, a separate spring connection between each of said contacts and said operating element, sequencing means arranged in the paths of said contacts for causing said contacts to operate in a predetermined sequence, and a timing device for delaying the operation of said contacts from said one circuit controlling position to said second controlling position when said operating element is moved quickly from one to the other of said positions.

1,918,031. LIGHTING FIXTURE. GEORGE WESLEY GOLDNER, Jackson, Mich., assignor to Line Material Company, Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 10, 1929. Serial No. 385,057. 5 Claims. (Cl. 240—25.)



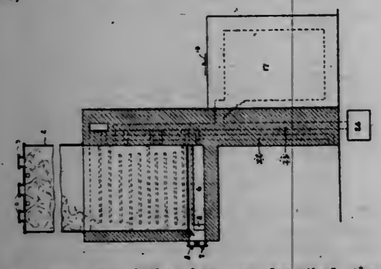
1. A street lighting fixture of the character described comprising a protecting housing having means for mounting the fixture from a support, a lamp mounted within the housing, a switch within the housing, conductors within the housing connecting the lamp and the switch in series so that the switch controls the lamp, electroresponsive means directly connected with the switch within the housing, and conductors leading from the electroresponsive means to the exterior of the housing to enable selective energization of the electroresponsive means whereby the lamp may be selectively controlled from a point remote from the lighting fixture.

1,918,032. RESILIENT WHEEL. JOSEPH A. GRAY, Norwalk, Conn. Filed Mar. 23, 1926. Serial No. 96,728. 4 Claims. (Cl. 152—48.)



1. A wheel having a built-up hollow hub comprising an axle box and a hub band spaced outwardly therefrom to contain air and lubricant under pressure, a series of cylinders entering and fastened to the hub and freely opening into the hub cavity, compound pistons in said cylinders forming between the parts thereof and the axle box, pockets that are filled with lubricant, said pistons supported by a resilient rim and the contents in the hub under pressure, and in turn supporting the hub; said hub also comprising two convex closure disks secured to the hub band and to the axle box at circular central openings in said disks surrounding and fastening to said axle box, one of the closure disks having a valve through which air and lubricant are admitted.

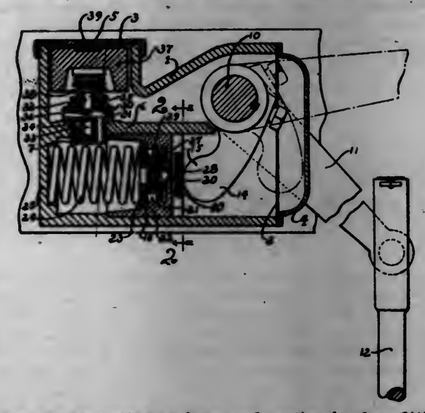
1,918,033. APPARATUS FOR THE PRODUCTION OF CARBON DISULPHIDE. THOMAS GRISWOLD, Jr., Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Feb. 7, 1927. Serial No. 166,350. 5 Claims. (Cl. 23—277.)



1. In apparatus of the character described, the combination in a single setting, of a vertically disposed leaf-type reaction chamber having a constricted outlet at the bottom thereof, a cleanout chamber below said reaction chamber and communicating therewith through the constriction such that a charge of charcoal may rest upon such constriction therein, a vertically disposed vaporizing chamber alongside said reaction chamber, heating flues between said reaction chamber and said vaporizing chamber having side walls in common with said chambers, a conduit connection between said vaporizing chamber and said cleanout chamber, a feed inlet to supply molten sulphur to said vaporizing chamber, a magazine to supply charcoal to said reaction chamber, a vapor offtake to lead carbon disulphide vapor from said reaction chamber, and a connection to supply combustible gas to said flues.

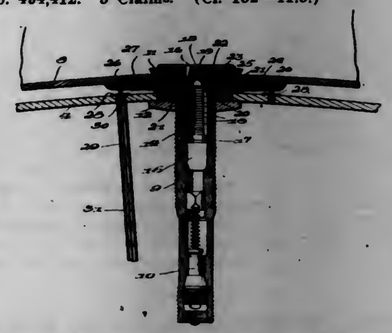
1,918,034. HYDRAULIC SHOCK ABSORBER. NEWTON F. HADLEY, Beverly Hills, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 31, 1930. Serial No. 458,723. 5 Claims. (Cl. 267—8.)

2. A shock absorber including a housing adapted to be mounted in the channel of a vehicle chassis side member, a horizontal cylinder in said housing having an outlet opening in its upper side, a fluid medium in said cylinder and housing, a piston in said cylinder, means connected at one end with an unsprung portion of said vehicle and bearing at the other end upon said piston for urging said piston inwardly of said cylinder during upward rebound of the sprung portion of said vehicle chassis, a stationary support mounted on said cylinder, having a bore therein and having a bleed passage connecting the inner end of said bore with the interior of said housing, a valve member slidably mounted in said bore for restricting the flow of fluid medium from the outlet of



said cylinder having an inner end portion in close fitting engagement with the walls of the inner end of said bore, and an inertia element on said valve member for bringing said valve member into a metering position during violent upward rebounding of said unsprung chassis portion.

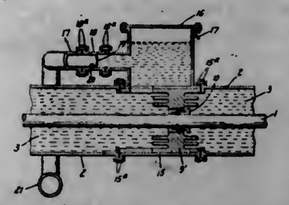
1,918,035. TIRE PRESSURE INDICATOR. JAMES HARRIS HARDY, Crawford, Miss. Filed Nov. 8, 1930. Serial No. 494,412. 5 Claims. (Cl. 152—11.5.)



1. In a device of the character described, the combination of a rim having an opening, sockets disposed on opposite sides of said opening, an inner tube having a stem, circuit breaking means connected with the stem, and plugs on opposite sides of the stem in position to engage the sockets, said plugs being connected with the circuit breaking means.

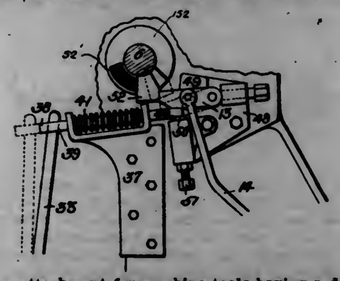
1,918,036. FLUID INSULATED CONDUCTOR. JOHN D. HILLIARD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 14, 1929. Serial No. 385,801. 2 Claims. (Cl. 173—266.)

1. An insulating structure of the metal-clad type comprising a metallic conduit within which an electrical conductor to be insulated is disposed, an insulating fluid contained within and completely filling said conduit, a section interposed in said conduit comprising an expansion chamber for permitting normal expansion and contraction of the insulating fluid while maintaining the conduit filled therewith, a discharge conduit communicating with said expansion chamber and a diaphragm of the collapsible-disc type interposed in a section of said



discharge conduit for relieving suddenly developed pressures of predetermined magnitude within the first named conduit, whereby fluid within said conduit may be expelled through said discharge conduit.

1,918,037. PUNCH PRESS GUARD. EDWARD D. HOWELL, Springfield Gardens, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed May 19, 1928. Serial No. 279,091. 9 Claims. (Cl. 192—137.)



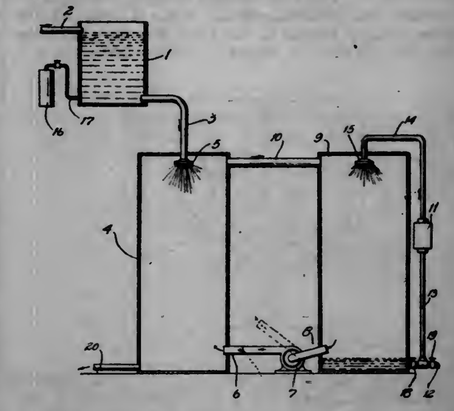
1. In an attachment for machine tools having a driving shaft, an operating member, means including a trigger whereby said member may be connected to said shaft and means adapted to be actuated by an operator for releasing said trigger, means normally preventing release of said trigger, a guard for preventing access to said member by an operator and movable to effective and ineffective positions, means normally maintaining said guard in ineffective position, and means actuated by the movement of said guard into effective position for rendering said last-named means inoperative to permit release of said trigger by the operator.

1,918,038. CATALYTIC OXIDATION OF AMMONIA. ALPHONS O. JAEGER, Mount Lebanon, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Apr. 14, 1928, Serial No. 270,163. Renewed May 26, 1930. 21 Claims. (Cl. 23—162.)

1. A method of oxidizing ammonia to oxides of nitrogen, which comprises passing ammonia admixed with an oxygen containing gas at an elevated temperature over a contact mass containing at least one element which is catalytically active in promoting the oxidation of ammonia to nitrogen oxides containing a non-silicious base exchange body.

1,918,039. PROCESS OF EXTRACTING IODINE FROM AQUEOUS SOLUTIONS. COULTER W. JONES, Midland, Mich., assignor to Jones Chemical Company, Incorporated, McDade, La., a Corporation of Louisiana. Filed Feb. 23, 1928. Serial No. 256,237. 19 Claims. (Cl. 23—217.)

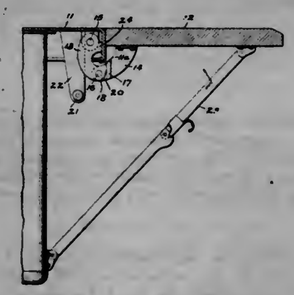
1. A process of recovering iodine from aqueous solutions containing iodine compounds, which includes the steps of liberating the iodine from its chemical combinations therein, and blowing air through such solution while disseminated and without substantial increase in temperature, to extract the liberated iodine therefrom.



12. The process of recovering iodine from aqueous solutions containing iodine compounds, which includes the steps of liberating the iodine from its chemical combinations therein by oxidizing the solution to an extent sufficient to liberate substantially all the iodine content but avoiding an appreciable excess of oxidation, bringing the solution containing the dissolved iodine at approximately natural brine temperature and in the form of a finely divided stream against a current of air whereby such iodine is blown out, and then passing the iodine-laden air in parallel flow contact with a finely divided stream of an alkaline absorbing agent capable of forming a compound with such iodine.

19. The process of recovering iodine from non-alkaline aqueous solutions containing iodine compounds, which comprises liberating the iodine from its chemical combinations therein, without substantial change in temperature bringing the dissolved iodine containing aqueous solution in disseminated form into contact with nitrogen to extract the iodine therefrom, and then contacting the iodine-laden gas with an agent for removing the iodine therefrom.

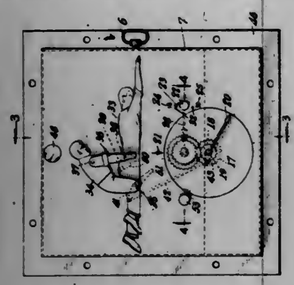
1,918,040. HINGE. WILLIAM JOSEPH KASSICK, Newark, N. J., assignor to General Electric Company, a Corporation of New York. Filed Feb. 12, 1929. Serial No. 339,351. 14 Claims. (Cl. 16—163.)



4. In a table provided with a top and an extension leaf at one edge of the top, a hinge structure comprising means connecting said leaf with said top so that when said leaf is in its lowered position its normally upper face is substantially flush with the edge of said top,

and means for moving said leaf so as to engage the bottom surface of said top when said leaf is in its lowered position.

1,918,041. RHYTHM MAINTAINING DEVICE FOR ARTIFICIAL RESPIRATION. FRED KNAPKE, Middle Village, Long Island, N. Y. Filed Jan. 29, 1932. Serial No. 589,681. 9 Claims. (Cl. 58—130.)

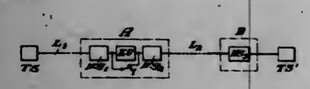


1. Rhythm maintaining apparatus for prone methods of resuscitation, comprising a motor, respiration rhythm indicating means driven at constant uniform speed by said motor, and means for arbitrarily setting the rhythm of such indicating means for either adult or infant rates of respiration, said indicating means including the figure of an operator in the position for prone method of resuscitation and movable in simulation of the correct movements for the prone met-od of resuscitation.

1,918,042. LONGEVOUS CULTURES OF ACIDURIC BACTERIA. FERDINAND W. NITARDY, Brooklyn, N. Y., and JOHN J. ENRIGHT and VINCENT S. WRENN, Pittsburgh, Pa., assignors to E. R. Squibb & Sons, New York, N. Y., a Corporation of New York. Filed Apr. 1, 1931. Serial No. 527,041. 9 Claims. (Cl. 167—73.)

1. The method of prolonging the life of cultures of Lactobacillus suitable for intestinal implantation which comprises maintaining them in the presence of a buffer consisting of an aliphatic salt.

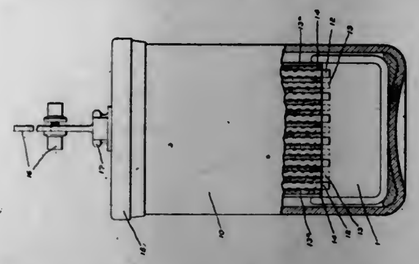
1,918,043. SYSTEM OF COMMUNICATION BY MEANS OF CURRENT IMPULSES. ERICH KRUHME, Berlin-Treptow, AUGUST JIPP and EBERHARD ROSSBERG, Berlin-Siemensstadt, Germany, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt near Berlin, Germany, a Corporation of Germany. Filed Feb. 19, 1931, Serial No. 516,908, and in Germany Feb. 7, 1930. 8 Claims. (Cl. 178—2.)



1. In a telegraph system comprising a plurality of line sections and regenerative telegraph repeaters interposed between contiguous line sections for transmitting telegraphic signal currents, electrically controlled means for disconnecting and by-passing said telegraph repeaters.

1,918,044. STORAGE BATTERY. GEORGE L. KYLE, Niagara Falls, N. Y., assignor to USL Battery Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Aug. 31, 1928. Serial No. 303,193. 2 Claims. (Cl. 136—81.)

1. A storage battery group comprising a plurality of pasted positive plates, a plurality of negative plates arranged in alternation with said positive plates, the two outer of said negative plates being solely of the solid type and the remainder of said negative plates being of the pasted type, means for insulating each plate from the



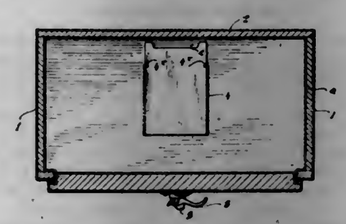
adjacent plates and bus bars directly connected to the positive and negative plates respectively, the lower portion of said group being entirely immersed in electrolyte.

1,918,045. MANIFOLDING SALES BOOK. ALBERT R. LAWSON, Hamilton, Ontario, Canada. Filed July 21, 1932. Se-'al No. 623,775. 5 Claims. (Cl. 282—24.)



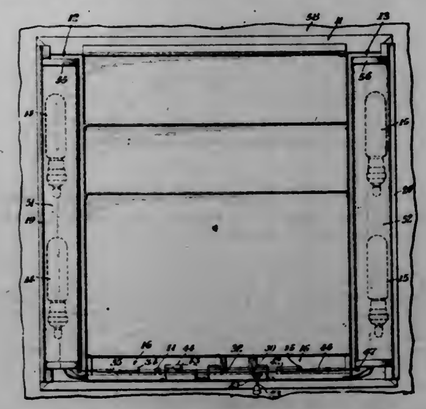
1. In a manifolding sales book the combination of a back; a plurality of superimposed sets of original and triplicate record leaves having clean under surfaces, the originals being folded over and connected to the free ends of the triplicates and the latter provided with stubs; a flap underlying the record leaves, hinged at one end to the back and having the stubs aforesaid bound to its other end; and a plurality of superimposed carbon leaves bound at one end to the back and adapted to be successively thrown in between original and triplicate record leaves, and after use to be turned in beneath the flap aforesaid.

1,918,046. COOLING CHEST FOR FOODSTUFFS. JULIEN LOEB, Brooklyn, N. Y. Filed Jan. 6, 1933. Serial No. 650,897. 2 Claims. (Cl. 62—80.)



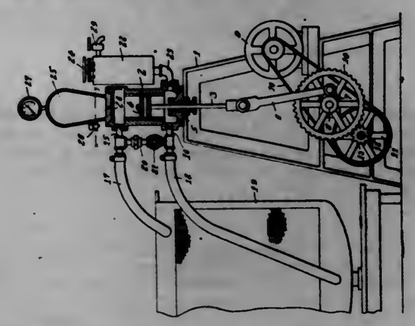
1. In combination with an automatic refrigerator having an ice-forming compartment and a plurality of sectional trays therein, each adapted to hold water frozen into ice cubes by the refrigerator, of a cooling chest comprising a closed heat-insulated walled casing provided with a front wall formed as a hinged door, a rack carried by the chest and a tray for containing ice cubes received by said rack, the tray being interchangeable with a tray of ice cubes in said refrigerator, and being held by the rack spaced from the top wall of the casing.

1,918,047. ILLUMINATED MIRROR CABINET. ADOLPH MARCHAND, Jackson Heights, N. Y. Filed Nov. 30, 1932. Serial No. 644,983. 8 Claims. (Cl. 240—4.1.)



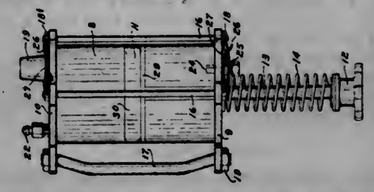
1. A cabinet of the class described having a mirrored door thereon and comprising two lateral compartments at opposite sides of the cabinet, a third compartment adjacent another side of the cabinet, the said lateral compartments each containing a rotatable mounting therein carrying an arrangement of lamps and a panel adapted to conceal said lamps from view when in the normally inoperative position, and actuating means positioned within said third compartment and associated with the said mountings whereby a single manipulation will cause a simultaneous movement of both mountings to bring said lamps to an exposed position and each of said panels in flanking relation to the lamps adjacent thereto, the said exposed position being such that the lamps project forwardly beyond the front of the cabinet, the lamps adjacent the unhinged side of the door being adapted to illuminate the interior of the cabinet when the door is opened.

1,918,048. RADIATOR CLEANING MACHINE. CARL MARXMAN, Rochelle, Ill. Filed Nov. 25, 1929. Serial No. 409,471. 6 Claims. (Cl. 141—1.)



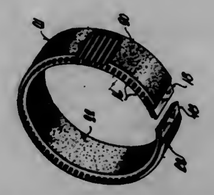
3. A device of the class described adapted for cleaning a chamber or receptacle by back and forth flow of cleaning solution through the chamber or receptacle, comprising a pump cylinder, a reciprocatory pumping element in said cylinder having a rod extending therefrom for operation thereof from outside the cylinder, power means connected with the rod for reciprocating said pumping element at a certain speed to move a certain volume of cleaning solution back and forth, the opposite ends of the cylinder having openings, a fluid conduit communicating with each of said openings, each conduit being adapted for connection at its other end with the inlet or outlet opening of the chamber in which cleaning solution is to be moved back and forth, a by-pass for affording direct restricted communication between opposite ends of the cylinder, and a manually adjustable valve for regulating the flow through said by-pass, whereby to accordingly vary the amount of solution caused to flow back and forth in the chamber.

1,918,049. OIL DISPENSING DEVICE. PAUL A. MASKE, Grafton, Wis. Filed Aug. 29, 1932. Serial No. 630,760. 11 Claims. (Cl. 221—103.)



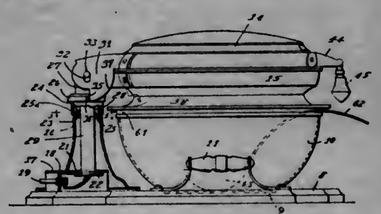
1. An oil dispenser comprising, a transparent cylinder having end heads one of which is provided with a filling and discharge opening, a plunger movable within said cylinder toward and away from said opening, adjustable means for limiting the travel of said plunger away from said opening, and means for sealing said adjustable means in an adjusted position.

1,918,050. METHOD OF MANUFACTURING RESISTOR UNITS. RAYMOND P. MATTERN, Wauwatosa, Wis., assignor, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 28, 1930. Serial No. 432,211. 4 Claims. (Cl. 201—76.)



3. The herein described method of forming a rheostatic resistor which comprises, silver plating and coating a metallic comb with graphite, inserting the metallic comb in a mold, molding materials having high resistivity about the prongs of the comb, and cutting away the back of the comb whereby its prongs are exposed from the molded material to provide contact surfaces.

1,918,051. WAFFLE GRIDDLE. MICHAEL W. MCARDLE, Chicago, Ill. Filed Sept. 3, 1930. Serial No. 479,438. 12 Claims. (Cl. 53—10.)



1. In a griddle, a base having a bowl supporting portion, upper and lower grids, an open top batter bowl on

said bowl supporting portion for holding a quantity of batter to be used upon said lower grid, and pivoted means for supporting said grids on said base for rotation as a unit on a vertical axis between a position normally closing said bowl and an open position to uncover the latter for the transfer of batter therefrom to said lower grid and for rotation of said upper grid on a horizontal axis to separate said grids for the introduction of batter therebetween.

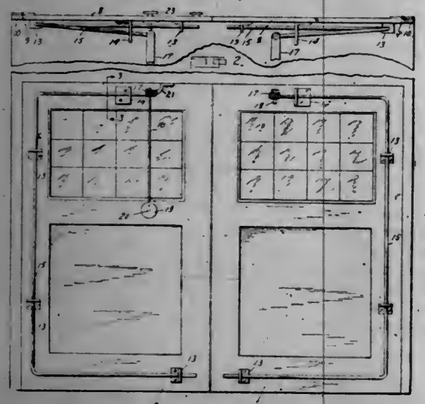
1,918,052. LONGEVOUS CULTURES OF ACIDURIC BACTERIA. FERDINAND W. NITARDY, Brooklyn, N. Y., and JOHN J. ENRIGHT and VINCENT S. WRENN, Pittsburgh, Pa., assignors to E. R. Squibb & Sons, New York, N. Y., a Corporation of New York. Filed Apr. 1, 1931. Serial No. 527,040. 9 Claims. (Cl. 167—73.)

1. The method of prolonging the life of cultures of Lactobacillus which comprises maintaining them in the presence of carbon dioxide in a concentration of between one and five volumes.

1,918,053. LONGEVOUS CULTURES OF ACIDURIC BACTERIA. FERDINAND W. NITARDY, Brooklyn, N. Y., and JOHN J. ENRIGHT and VINCENT S. WRENN, Pittsburgh, Pa., assignors to E. R. Squibb & Sons, New York, N. Y., a Corporation of New York. Filed Apr. 1, 1931. Serial No. 527,042. 10 Claims. (Cl. 167—73.)

1. The method of prolonging the life of cultures of Lactobacillus suitable for intestinal implantation which comprises maintaining them in the joint presence of carbon dioxide in a concentration of between one and five volumes and a buffer consisting of an aliphatic-acid salt.

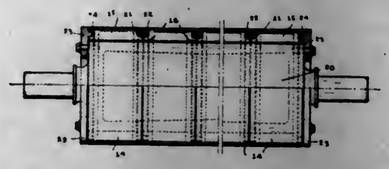
1,918,054. DOOR OPERATING MECHANISM. CHARLES PIPPERT, Ridlonville, Maine. Filed July 8, 1930. Serial No. 451,593. 15 Claims. (Cl. 268—63.)



6. In combination, a door, a U-shaped member secured to said door, the base of the U being swivelly carried parallel with and adjacent the hinges of said door, one leg of said U being secured to the door, the other leg of the U being carried in a slot in a bracket fixed to said door, operating means mounted adjacent said door, and means connecting the operating means with said last named leg.

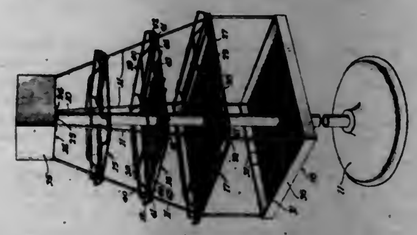
1,918,055. WATER MARKING DEVICE. WILLIS J. PIPPERT, Ridlonville, Maine. Filed July 8, 1930. Serial No. 466,428. 19 Claims. (Cl. 92—48.)

1. Water marking equipment, comprising a roll having a layer of rubber over substantially its entire outer surface, said layer having the desired markings formed thereon, said layer consisting of a plurality of remov-



able and replaceable independent segments, and means covered by the segments for securing the segments to the rolls in substantially contiguous relation.

1,918,056. DISPLAY RACK. JOHN H. PLATT, Evanston, Ill., assignor to Kraft-Phenix Cheese Corporation, Chicago, Ill., a Corporation of Delaware. Filed July 3, 1931. Serial No. 548,550. 4 Claims. (Cl. 211—78.)



3. A display rack of the class described comprising a plurality of relatively spaced uprights, a plurality of vertically spaced connectors for said uprights, said connectors including frame elements connected to said uprights, a plurality of wire trays, each including a back bar, downwardly extending side bars having angularly offset, forwardly extending portions, the latter having upwardly extending, front end portions and a front bar connecting said upwardly extending portions, and a bar disposed substantially parallel to said back bar and secured to said forwardly extending portions, said bars and the adjacent supporting frame element constituting a shelf for co-operating with said back bar to support packaged goods for display purposes, and said front bar constituting a retainer for said goods.

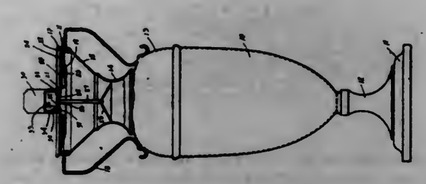
1,918,057. MOVEMENT-PLATES FOR TIMEPIECES. JAMES R. PUTNAM, Waterbury, Conn., assignor to Waterbury Clock Company, Waterbury, Conn., a Corporation. Filed Feb. 26, 1932. Serial No. 595,266. 3 Claims. (Cl. 58—52.)



1. Front and back movement-plates for timepieces, each provided with integral spacing-arms bent at a right angle to their planes, and similarly placed upon the two plates, one of which must be rotated with respect to the other to bring their arms out of line for clearance when the plates are fastened together and each plate being adapted to receive the outer ends of the integral spacing-arms of the other plate, whereby, on account of the arms being integral with their respective plates, the movement-structure is increased in rigidity.

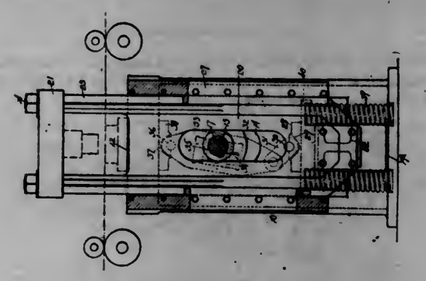
CARNEGIE LIBRARY OF ATLANTA

1,918,058. ASH RECEIVER. JAMES H. REICHART, Muncie, Ind. Filed Feb. 21, 1930. Serial No. 430,194. 2 Claims. (Cl. 181—51.)



1. In combination an ash and sub receiving circular throat member having an outwardly flared mouth terminating in a peripheral seat near its open end, a detachable cover nestingly receivable by the mouth seat and including ash and stub receiving openings tuerein, a conical closure positioned in and substantially sealing the narrowest portion of said throat member, an elongated stem slidably and rotatably supported by the cover, said stem at its lower end and below the cover normally supporting said closure in th throat member, and a match box support exposed above the cover and secured to the upper end of the stem adapted to raise and lower the closure and to rotate the match box.

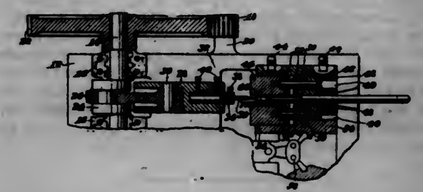
1,918,059. DIEING MACHINE. CORTIS F. SHERMAN, Hartford, Conn. Filed June 21, 1929. Serial No. 372,792. 13 Claims. (Cl. 164—23.)



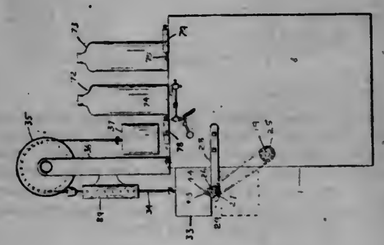
1. A dieing machine including an upright main frame composed of two sides located at opposite sides of the machine, a reciprocating frame including side members located on opposite sides of the main frame and in sliding contact with the outer surfaces thereof at opposite sides of the machine, a tie beam secured to and connecting the lower ends of said members and a head connecting the upper ends of said members above the main frame, said tie beam extending through the opposite sides of main frame, and driving mechanism connected with said reciprocating frame for imparting reciprocating movement thereto.

1,918,060. METHOD OF FORGING HOLLOW WORKING IMPLEMENTS. CHRISTIE C. SICKELS, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Original application filed July 3, 1930, Serial No. 465,556. Divided and this application filed June 25, 1931. Serial No. 546,710. 4 Claims. (Cl. 76—108.)

1. The method of shaping a hollow working implement from a bar having a hole therethrough which consists of forming a raised portion on the external surface of the bar thus enlarging that portion of the hole adjacent thereto, depressing said raised portion to transform the enlarged portion of the hole into a reduced portion and form a thickened section on the bar, and again forming a raised portion on the bar reinforced by the thickened section.

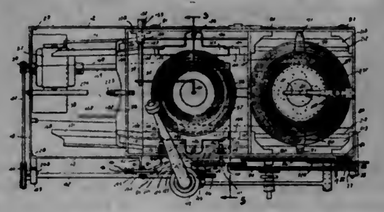


1,918,061. NEGATIVE-DEVELOPING AND PRINTING DEVICE. LUTHER G. SIMJIAN, New Haven, Conn. Filed Sept. 21, 1931. Serial No. 564,066. 8 Claims. (Cl. 95—89.)



1. A movable platform upon a support of a negative developing device, means provided by the support for moving the platform, the platform being adapted to carry a member enclosing sensitized material in contact with previously exposed negative material, the platform being provided with means for operating valves provided by the container of developing fluids provided by the support for application to the negative material while the platform is moving.

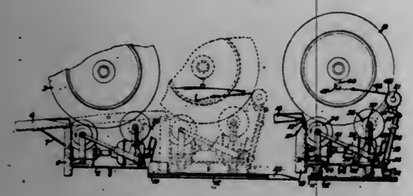
1,918,062. AUTOMATIC PHONOGRAPH FOR NONUNIFORM RECORDS. THOMAS W. SMALL, Huntington, Ind., assignor to The Capehart Corporation, Fort Wayne, Ind., a Corporation. Filed Apr. 14, 1930. Serial No. 443,946. 23 Claims. (Cl. 274—10.)



4. In an automatic phonograph the combination of a record storage magazine, a turn table adapted to receive a record for playing, a record-supporting member mov-

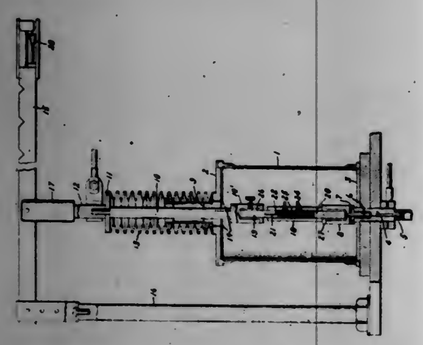
able between an upper and a lower position, mechanism automatically operable upon the completion of playing of one side of a record to remove the same from the turn table, reverse the same and place it upon said supporting member with the opposite side uppermost, means for moving said support member between its upper and lower positions, mechanism operable when said support member is in its upper position to move the record therefrom to said turn table for playing the opposite side, other mechanism operable when said member is in its lower position to move the record therefrom for return to said storage magazine, and mechanism operable simultaneously with said last-mentioned mechanism to move another record from said magazine to said turn table.

1,918,063. VEHICLE TESTING APPARATUS. CHARLES E. STARR, Whittier, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a Corporation of Delaware. Filed May 23, 1928. Serial No. 279,904. 7 Claims. (Cl. 73—51.)



1. In a vehicle testing apparatus, supporting means for one of the rear wheels, a carriage for supporting one of the front wheels, said carriage being movable toward and from the rear wheel support and with the vehicle when the rear wheels move to their supporting means, and means for spanning the rear wheel supporting means to permit the front wheel to pass thereover.

1,918,064. METEHOD OF MAKING STRONG, THIN, CEMENTED, CARBIDE DISKS. GEORGE F. TAYLOR, Niskayuna, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 8, 1930. Serial No. 480,330. 5 Claims. (Cl. 75—1.)



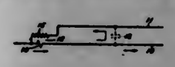
1. The method of producing thin metallic disks from powdered material which comprises placing alternate layers of said powdered material and carbon in an electrically non-conducting mold, completing an electric circuit through said layers to thereby heat said powdered material to its sintering temperature, maintaining said circuit for a few moments and simultaneously applying pressure to said powdered material.

1,918,065. ROCK DRILL. EDWARD F. TERRY, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 30, 1931. Serial No. 553,988. 3 Claims. (Cl. 255—45.)



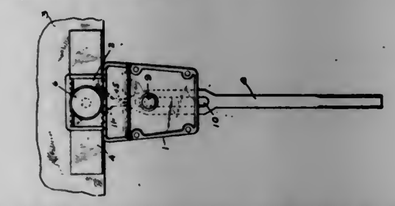
1. In combination, a rock drill having a plurality of casing parts, a guide for the rock drill, means on the guide being interposed between adjacent casing parts, clamping means for securing the first-mentioned means and the casing parts together, and a flexible connection on the clamping means and being secured to the guide by the clamping means to support the rear end of the rock drill.

1,918,066. SYSTEM OF DISTRIBUTION. RICHARD TAGGER, Berlin-Zehlendorf, Germany, assignor to General Electric Company, a Corporation of New York. Filed Mar. 22, 1932, Serial No. 600,419, and in Germany Mar. 21, 1931. 9 Claims. (Cl. 172—237.)



1. In a system of distribution, a transmitting circuit comprising a line conductor including a plurality of current conducting elements arranged in substantially parallel spaced relation, and means connected to be responsive to the current traversing said line conductor for establishing a difference of potential between said current conducting elements.

1,918,067. MORTISING TOOL. CHARLES C. URBAN, Indianapolis, Ind. Filed May 9, 1932. Serial No. 610,089. 2 Claims. (Cl. 144—81.)

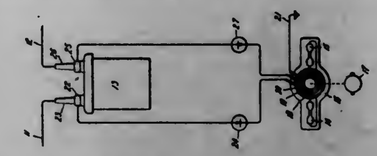


1. In a mortising tool, a hollow body, means for clamping said body to an object, a bit for cutting a mortise, a lever extending through said hollow body to which said bit is attached, means for pivoting the bit to said lever, a pivot for said lever extending through the walls of said body, said lever having an elongated slot through which said pivot extends, whereby said lever may be manually moved inwardly for consecutively engaging said bit with the surface to be mortised concurrently with rocking the same on its pivot and means forming discharge cavities for the cuttings from the bit.

1,918,068. INDICATING DEVICE. HANNS SINGER, Berlin-Steglitz, Germany, assignor to General Electric Company, a Corporation of New York. Filed May 28, 1932, Serial No. 614,201, and in Germany Aug. 14, 1931. 12 Claims. (Cl. 172—245.)

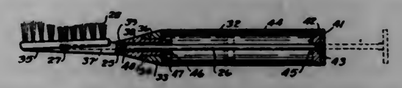
6. In combination with a pair of alternating-current circuits, a discharge tube energized by electrostatic induction from one of said circuits and becoming luminous only

at voltages corresponding to peak values in the voltage wave so as to be illuminated intermittently at a rate determined by the frequency of said circuit, and means for



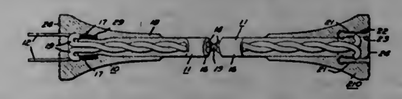
revolving said discharge tube at an angular velocity synchronous with the frequency of the other of said circuits.

1,918,069. FOUNTAIN BRUSH. SADYE E. WALLACH, Brooklyn, N. Y. Filed June 8, 1932. Serial No. 615,976. 4 Claims. (Cl. 15—137.)



1. A fountain tooth brush comprising a hollow handle providing a cylinder, a stem mounted axially in the cylinder and being of greater length than the cylinder and adapted to project through the opposite ends thereof, a brush head having a shank at one end for detachable connection with the handle and provided in said shank with a feed passage leading directly therethrough to the brush head in axial alinement with said cylinder for receiving the end of the stem when projected through the cylinder, said feed passage and stem being relatively proportioned to completely fill the feed passage by said stem, and a plunger detachably mounted on said stem and disposed in said cylinder for operation by said stem when retracted from said feed passage.

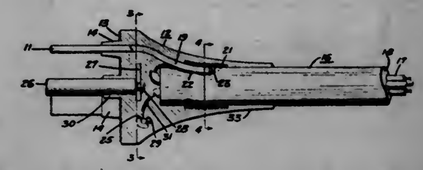
1,918,070. ELECTRICAL CORD TERMINAL. NOBLE H. WATTS, Oakland, Calif., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y., a Corporation of New York. Filed Jan. 24, 1927. Serial No. 163,012. 11 Claims. (Cl. 173—361.)



2. In a device of the class described, a pair of spaced bayonet contact members, a body of resilient material serving to embed said members whereby projecting ends of said members form a bayonet connector, and means in addition to the material of said body for retaining together the inner ends of said members, said means together with the resilient material of the body permitting relative movement between the projecting ends of said contact members.

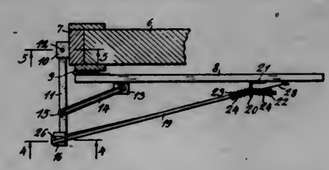
11. An electrical cord terminal comprising spaced electrical contacts, a resilient insulated sheathed cord having bared conductors protruding from an end thereof, the end of said cord being disposed between said contacts, said bared conductors being bent backwards along said cord sheathing and electrically connected respectively to said contacts at the free ends of said conductors in the rear of the bent portions therein, and a body of resilient insulating material embedding said cord ends, portions of said contacts and the said connections between conductors and contacts.

1,918,071. CORD TERMINAL. NOBLE H. WATTS, Oakland, Calif., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y., a Corporation of New York. Filed Feb. 1, 1928, Serial No. 251,103. Renewed Sept. 10, 1932. 3 Claims. (Cl. 173—361.)



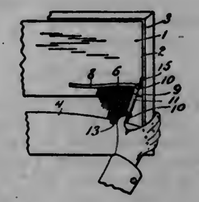
2. In a cord terminal, a body of resilient insulating material, three spaced contact members embedded in said body, a substantially triangular metallic plate embedded in said body between said members and insulated therefrom, and a fourth contact member secured to said plate.

1,918,072. DOORSTOP. WALTER E. WEGNER, Denver, Colo., assignor of one-half to Emma Wegner, Denver, Colo. Filed Nov. 17, 1932. Serial No. 642,991. 4 Claims. (Cl. 292—263.)



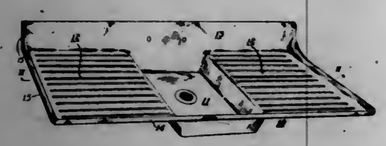
1. In combination with a doorframe and a door hingedly mounted on the frame, a doorstop comprising, a lever having one end pivotally attached to the doorframe, a second lever having one end pivotally connected with the door, the free end of the second lever being pivotally connected with the first mentioned lever, a latching device connected with the first lever, and a bar having one end movably connected with the door, the bar being slidably connected with the latching device, means for interconnecting the bar and the latching device when the door is in open position, and means for releasing the latch to permit the door to be closed.

1,918,073. WINDOW SCREEN. HAROLD E. WILLIAMS, HOWARD L. GARRIGUES, and WILLIAM F. RICHARDSON, Carthage, Mo., assignors to H. E. Williams Products Company, Carthage, Mo., a Corporation of Missouri. Filed Jan. 30, 1932. Serial No. 589,810. 8 Claims. (Cl. 156—14.)



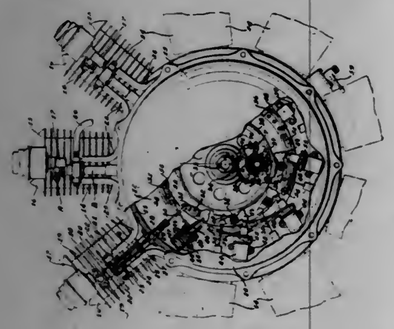
3. A longitudinally elastic woven wire screen, and means adapted for releasable holding engagement with the cowl of an automobile for holding the screen stretched across the front window opening of the automobile.

1,918,074. SINK FOR KITCHEN CABINETS. ARTHUR P. WOOLFOLK, Pittsburgh, Pa., assignor to Standard Sanitary Manufacturing Company, a Corporation of New Jersey. Filed Oct. 3, 1931. Serial No. 566,668. 3 Claims. (Cl. 4—187.)



1. A sink of the type described having a roll rim edge provided with an inner and outer curved portion, the inner portion of said roll rim extending around the front and sides of the sink and the outer portion extending around the front and being flared upwardly intermediate of the length of the sides of said sink and terminating in a flat surface whereby a square side rim is formed on a portion of each side of the sink.

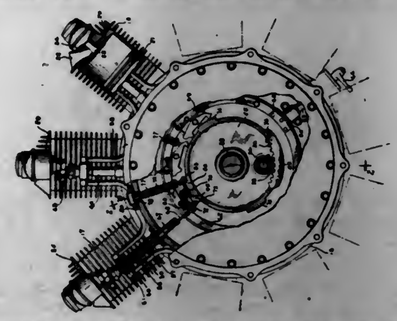
1,918,075. INTERNAL COMBUSTION ENGINE. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 9, 1930. Serial No. 419,547. 8 Claims. (Cl. 123—139.)



1. In a fuel injection mechanism for Diesel engines, a pump plunger the effective stroke of which determines the fuel charge quantity, a fixed housing, a cap screwed upon one end of the housing, means for adjusting the cap, a piston in the housing having a stem extending through the cap, a coil spring in the housing exerting pressure against the piston toward the cap, mechanism responsive to the piston movement in this direction causing the plunger to move therewith, resilient means for retracting the piston between injection strokes, engine driven means for actuating the mechanism to move the piston in a direction compressing the spring and then suddenly releasing the same.

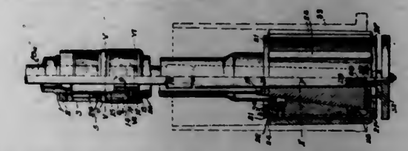
1,918,076. INTERNAL COMBUSTION ENGINE. LIONEL M. WOOLSON, deceased, Detroit, Mich., by Emma F. Woolson, executrix, Bloomfield Village, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed July 21, 1930. Serial No. 469,326. 12 Claims. (Cl. 123—139.)

1. In a fuel injection mechanism for internal combustion engines, a pump plunger, plunger operating mechanism, a spring for actuating the mechanism to cause plunger injection strokes, another spring for retracting the plunger mechanism between injection strokes, and an engine rotated cam for compressing and suddenly releasing the actuating spring to cause an effective stroke of the plunger below a predetermined engine speed, said cam



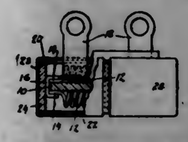
co-operating directly with the plunger operating mechanism above a predetermined engine speed to cause the plunger injection stroke.

1,918,077. INTERNAL GRINDING APPARATUS GIUSEPPE GIOVANNI AGOSTONI, Milan, Italy. Filed Mar 6, 1931, Serial No. 520,607, and in Italy Mar. 20, 1930 7 Claims. (Cl. 51—184.3.)



1. Apparatus for grinding the interior surfaces of tubular bodies and the like, including the combination, with a rotatable spindle adapted to be arranged and maintained in line with the axis of the bore of the body to be ground, of a plurality of radial wedge plates having their inner edges arranged parallel with the surface of said bore and disposed in contact with said spindle while having their outer edges inclined with respect to said spindle, a plurality of corresponding outer wedge plates having inner inclined edges in contact with the outer inclined edges of said first wedge plates, abrasive bodies disposed upon the outer edges of said outer wedge plates and in turn having their outer edges parallel with the surface of said spindle and the inner surface of said bore, resilient means for retaining said outer wedge plates in contact with said inner wedge plates, means for adjusting said inner and outer wedge plates longitudinally with respect to each other, whereby to radially project and withdraw said abrasive bodies, and a tubular member associated with said spindle to rotate therewith having slots providing for the projection of said outer wedge plates and abrasive bodies therethrough.

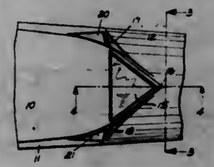
1,918,078. RESISTOR ELEMENT. VINCENT G. APPLE, Dayton, Ohio, assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois. Filed Jan. 27, 1930. Serial No. 428,642. 7 Claims. (Cl. 201—63.)



1. A resistor comprising a plurality of resistance coils extending parallel to one another and lying within a plane.

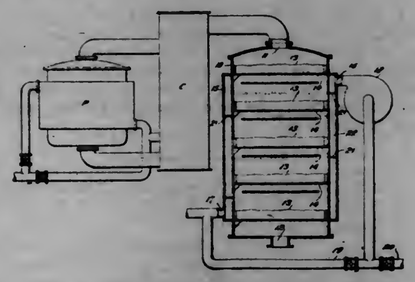
a duplicate plurality of such coils lying in a plane parallel to the first and spaced therefrom by an insulation plate, and terminal plates clamping the respective ends of each plane of coils against the insulation plate.

1,918,079. AIRCRAFT. ALEX FRANCIS ARCHER, Dayton, and REGINALD W. GIBSON, Troy, Ohio, assignors to The Waco Aircraft Company, Troy, Ohio, a Corporation of Ohio. Filed June 17, 1931. Serial No. 544,942. 3 Claims. (Cl. 244—30.)



1. In an aircraft, a cabin, a transversely curved rear fuselage portion extending from said cabin, a window arranged in the central top portion of the cabin providing for visibility of the occupant in a rearward and upward direction, and windows provided in the upper outer rear corners of the cabin providing for visibility directly to the rear and also in an outward and rearward direction.

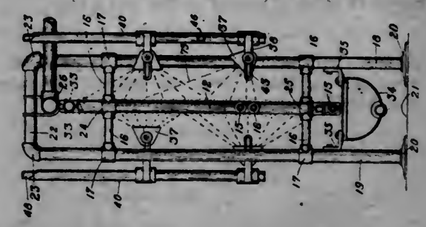
1,918,080. APPARATUS FOR USE IN THE CATALYTIC OXIDATION OF GASES. ALLING P. BEARDSLEY, Plainfield, N. J., assignor to The Calco Chemical Company, Inc., Bound Brook, N. J., a Corporation of Delaware. Filed Nov. 21, 1930. Serial No. 497,102. 2 Claims. (Cl. 23—288.)



1. In apparatus for the catalytic oxidation of gases, a converter having an inlet opening at its top and an outlet opening at its bottom and containing a plurality of spaced catalytic masses arranged in series, baffling means for directing the gases leaving each catalytic mass into contact with the converter shell before passing through the succeeding mass, a cooling jacket surrounding the converter and having an inlet opening at its top and an outlet opening at its bottom, means for forcing a cooling medium into the jacket through its inlet opening, and a plurality of horizontal partitions containing restricted openings located in the jacket to cause a generally downward flow of the cooling medium through the jacket.

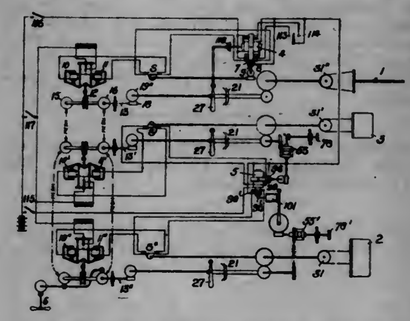
1,918,081. MILK PASTEURIZING APPARATUS. BRUNO L. BLOCHOWIAK, Milwaukee, Wis. Filed Feb. 15, 1930. Serial No. 428,604. 4 Claims. (Cl. 99—2.)

4. The combination with means for distributing liquids in a thin expansive film along a predetermined path, of a ray generating mount proximate to said path of liquid traverse, bacteria reducing ray generating means associated with said mount, of members for telescopic association with said mount, counter-balancing means for maintaining said mount in any vertical adjusted position within the limits of said depending members, electrical wires extending through said depending members and



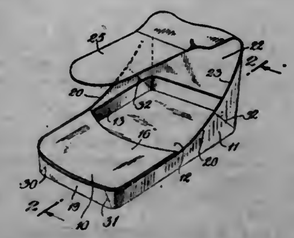
mount for electrical connection to said ray generating means, and self-winding reels for maintaining said wires taut in all positions of said mount.

1,918,082. AUTOMATIC PILOT FOR DIRIGIBLE CRAFT. BERT G. CARLSON, Elmhurst, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 25, 1931. Serial No. 559,160. 10 Claims. (Cl. 244—29.)



1. In an automatic pilot for dirigible craft, the combination with the usual hand controls permanently connected to the rudder, of a servo motor control, and means for releasing the latter upon a predetermined pressure being applied to turn the rudder whereby the rudder may be moved by said hand controls without turning the servo motor.

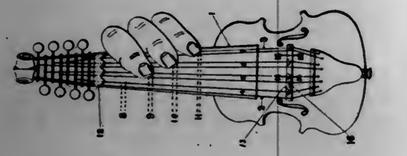
1,918,083. PROTECTIVE COVER FOR BEDPANS AND SIMILAR ARTICLES. ETHEL COLES CASE, Brooklyn, and HAROLD C. HENDERSON, East Moriches, N. Y. Filed Mar. 4, 1932. Serial No. 596,702. 4 Claims. (Cl. 4—113.)



1. In combination with a bed pan, a cover therefor made of flexible sheet material adapted to receive the bed pan and having a portion adapted to contact the underside of the bed pan, a portion extending upwardly

above the rear wall of the pan, side portions extending upwardly beyond the top edge of the side walls of the pan, and a flap extending from the said second portion adapted to cover a portion of the user's body.

1,918,084. VIOLIN. EMERY H. CHASE, Addison, N. Y. Filed Mar. 1, 1932. Serial No. 596,061. 10 Claims. (Cl. 84—274.)



1. A violin having pairs of duplicate strings, each pair tuned in unison, the vibrating portion of each string placed on aligned mounting means at variance of position lengthwise the instrument from that of its duplicate string of the same pair for the purpose of eliminating the discordance of tone otherwise produced by unequal stopping of such pair of strings, said mounting means comprising a series of alternate recesses and extensions on the violin nut and bridge members, the recesses on one member being aligned with extensions on the other member.

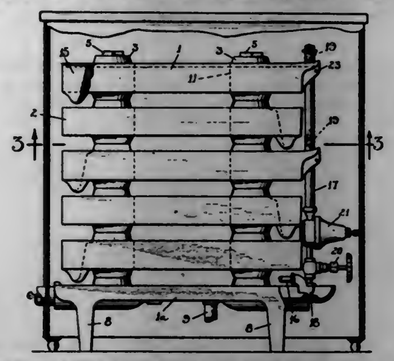
1,918,085. CONCEALED BED. EDGAR COCKS, Los Angeles, Calif. Filed Jan. 17, 1931. Serial No. 509,512. 11 Claims. (Cl. 5—139.)



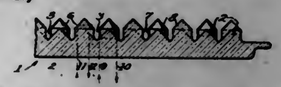
1. In a bed of the class described, in combination, arms mounted to swing on a horizontal axis, a bed frame pivotally attached to the ends of said arms, means connected with the arms at the frame side of said axis and adapted to assist in moving them together with the frame to swing the frame upwardly into an approximately vertical position, means connected with said arms and frame to assist the frame to overcome the action of the first mentioned means when the frame is in a horizontal position and which aids said means to swing said frame upwardly after said frame has been first manually swung upwardly a certain degree from its horizontal position, and extensions on said arms engaged by said frame limiting the movement of the frame relative to said arms.

1,918,086. HUMIDIFYING APPARATUS. GEORGE D. DOHERTY, Evanston, Ill., assignor to Doherty-Brehm Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 11, 1931. Serial No. 574,312. 14 Claims. (Cl. 257—180.)

8. In a device of the character described, comprising a plurality of spaced and superposed castings connected together for circulating a heating medium therethrough, said castings having exposed recessed portions for containing a humidifying medium, and an inclined spillway extending outwardly and downwardly from the opposite ends of alternate castings, said castings being arranged in staggered relation with the spillway ends of the castings disposed inwardly of the corresponding ends of the castings next below whereby the humidifying medium flows downwardly over the spillways into the outwardly extending ends of the castings next below.

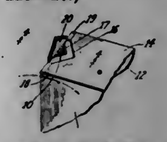


1,918,087. REFLECTING DEVICE. HAROLD B. DONLEY, Columbus, Ohio, assignor to Columbus Auto Brass Company, Columbus, Ohio, a Corporation of Ohio. Filed May 13, 1932. Serial No. 611,142. 8 Claims. (Cl. 88—1.)



1. A reflecting device of the character set forth, comprising a body having a plurality of prisms formed upon one of its surfaces which are of a triangular cross sectional formation, and conical projections formed with said prisms and arranged on each of said prisms with their longitudinal axes coinciding substantially with the axes of said prisms.

1,918,088. DISPENSING PACKAGE. JOHN P. DUNNE, Hollis, N. Y. Filed Apr. 27, 1931. Serial No. 533,251. 8 Claims. (Cl. 229—17.)



1. A dispensing package including overlapped upper and lower top walls formed at adjacent ends with registering notches defining a dispensing opening and an integral extension at the upper edge of an adjacent side wall secured initially to the upper surface of the lower top wall and lying flush within the upper top wall notch to close the dispensing opening and adapted to be released from said lower top wall to uncover the dispensing opening.

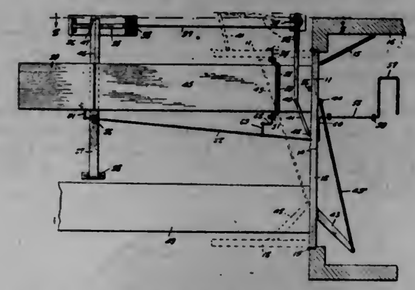
1,918,089. MANUFACTURE OF FOUNDRY MOLDS. JEAN BAPTISTE DURAND, Marseille, France. Filed Apr. 4, 1930, Serial No. 441,709, and in Germany Apr. 4, 1929. 5 Claims. (Cl. 22—188.)

1. In a process for manufacturing molds and cores for foundries subhydrating an agglomeration of sand of any species and a hydraulic binder, molding the said agglomeration, and coating the interior of the mold with a facing layer constituted by a mixture of carbon, cement and water.

1,918,090. COMPOSITION FOR FOUNDRY MOLDS. JEAN BAPTISTE DURAND, Marseille, France. Original application filed Apr. 4, 1930, Serial No. 441,709, and in France and Great Britain Nov. 9, 1929. Divided and this application filed Mar. 10, 1933. Serial No. 660,333. 7 Claims. (Cl. 22—188.)

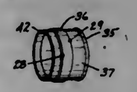
1. A composition for the manufacture of foundry molds consisting in a subhydrated agglomerate of sand of any species and of a hydraulic binder.

1,918,091. DOOR OPERATING MECHANISM. WILLIAM J. ELLIS, Steele, Ala. Filed Oct. 15, 1930. Serial No. 488,971. 2 Claims. (Cl. 268—35.)



1. In a door operating mechanism, a pair of hingedly mounted doors, means connecting said doors for simultaneous operation, spring means to close the doors, a slidingly mounted bolt, a keeper movably secured to one of the doors to engage the bolt and hold the doors closed, a normally elevated pivotally mounted bolt operating platform, means operated by said platform and connected to the bolt to retract the latter when the platform is depressed, a normally elevated door operating platform, a normally elevated depressible bar beneath the door platform and adapted to be depressed by the latter, means operated by depression of the bar to open the doors when the latch is retracted, weight operated means to hold the doors in open position, and means inside relative to the doors to prevent movement of the bolt to release the doors from the outside thereof.

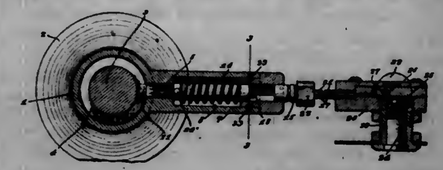
1,918,092. LOUD SPEAKER. BERNARD A. ENGHOLM, Lakewood, Ohio, assignor to The Rola Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed May 30, 1930, Serial No. 457,552. Divided and this application filed Aug. 12, 1932. Serial No. 628,579. 9 Claims. (Cl. 175—21.)



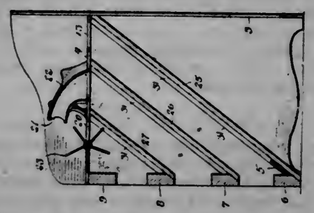
8. A form comprising a substantially cylindrical member, having means defining a coil positioning abutment including a shoulder upset from the material of the form, and having a perforation adjacent the shoulder extending from the outer to the inner face of the form, the shoulder providing a cavity on the face of the form to receive said terminal lead.

1,918,093. GASOLINE TANK AND IGNITION LOCKING DEVICE. HARRY W. GANO, Huntington, W. Va. Filed Sept. 7, 1932. Serial No. 632,066. 1 Claim. (Cl. 70—99.)

A switch lock comprising a mounting, an operating plate slidable in the mounting for effecting operation of a remote latch and having a groove, a housing carried by the mounting, a key operated lock barrel in said housing, a disc secured to said barrel, an extension on the mounting, contacts in said extension and connected to an ignition circuit, a movable contact in the mounting and normally disengaged from said first contacts, and a lug on the disc and movable into and out of the groove by rotation of the barrel in opposite directions for effecting movement of the operating plate when moved in the groove and to engage the movable contact with the first contacts when moved out of said groove.

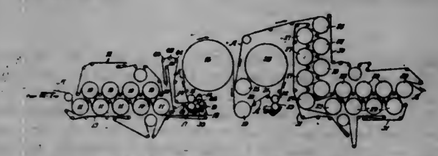


1,918,094. GAME DEVICE. DEMETRIUS G. GEEKAS, New York, N. Y. Filed Apr. 4, 1931. Serial No. 527,788. 3 Claims. (Cl. 273—102.)



1. In a game device, a casing provided with an apertured platform adjacent the top, said platform and apertures being in the same horizontal plane, a runway extending from each aperture, means at the bottom of each runway for indicating a credit to be gained by throwing a projectile through a given aperture, a member surrounding one of said apertures forming an arc-shaped passageway to make it difficult for a projectile to enter said aperture, said arc-shaped passageway having its entrance substantially in a vertical plane whereby a projectile entering therein must be moving substantially in a horizontal plane and rotatable means mounted in certain of the other apertures for making it difficult for projectiles to enter in said certain apertures, said rotatable means consisting of a bladed wheel with an axle arranged in substantially the plane of said platform and at right angles to the direction of movement of a projectile striking the wheel from the front of the device, substantially half of said wheel projecting through the aperture with which it is associated.

1,918,095. PROCESS AND APPARATUS FOR MAKING PAPER. RUDOLPH C. GERMANSON and FREDERICK KRANHOLD, Appleton, Wis., assignors to Paper Patents Company, Neenah, Wis., a Corporation of Wisconsin. Filed Dec. 19, 1932. Serial No. 647,864. 13 Claims. (Cl. 92—40.)



1. A process of filling a paper web as part of one continuous paper-making operation, which comprises impreg-

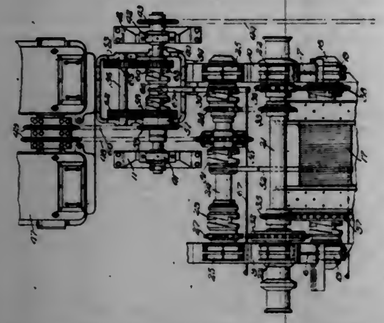
nating a felt with the filling material, passing the felt with the web thereon through pressure rolls under sufficient pressure to expel part of the filling material from the felt onto the web and force part of the filling material into a surface stratum of the web, and "absorbing excess filling into the felt by the sponging action of the latter as it emerges from the pressure of the pressure rolls.

1,918,096. METHOD AND APPARATUS EMPLOYED IN THE DRILLING OF WELLS. EDGAR E. GREVE, Bellevue, Pa., assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Apr. 23, 1929. Serial No. 357,470. 6 Claims. (Cl. 255—28.)



1. The method of introducing a hollow drill stem and a drill bit having a passage communicating with the interior of the drill stem into operative position in a well which comprises initially and temporarily closing the passage through the drill bit, lowering the stem and bit into operative position in the well, introducing fluid into the interior of the stem from a source below the top of the well during the lowering operation, and increasing the pressure within the hollow drill stem to open the passage through the drill bit.

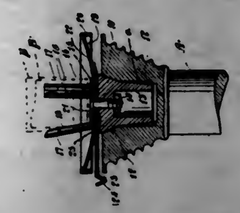
1,918,097. DRAWWORKS. EDGAR E. GREVE, Bellevue, Pa., assignor to Oil Well Supply Company, Oil City, Pa., a Corporation of New Jersey. Filed Apr. 21, 1931. Serial No. 531,721. 7 Claims. (Cl. 255—19.)



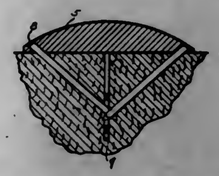
1. In combination, a drawworks having a counter-shaft, a jack shaft disposed parallel to said counter-shaft and extending laterally beyond the drawworks, a rotary drive sprocket on the extending portion of the jack shaft, driving means for the drawworks, operative driving connections between said driving means and said counter-shaft for driving the same, and other operative driving connections between said driving means and said rotary drive sprocket including said jack shaft and variable speed driving mechanism.

1,918,098. CANDLE HOLDER. CHARLES E. HALEY, Canton, Ohio. Filed Oct. 29, 1931. Serial No. 571,906. 1 Claim. (Cl. 67—23.)

A candle holder, comprising a plug member adapted for insertion in the socket of a candlestick and the like, a disk removably secured to said plug, a plurality of upwardly extending and outwardly inclined prongs on said disk, each of said prongs having a longitudinal V-shaped groove therein providing cutting edges at the two side edges of the prong to cut into the base of a candle to hold it erect, the inclination of the prongs providing for support of candles of varying diameters, a concaved drip plate, and a downturned marginal flange on the edge of said plate rigidify it.

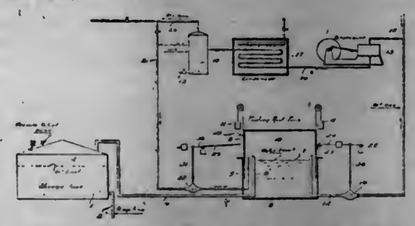


1,918,099. ROAD MARKER. GEORGE R. HANKS, Clinton, N. J., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed July 22, 1931. Serial No. 552,517. 1 Claim. (Cl. 94—1.5.)



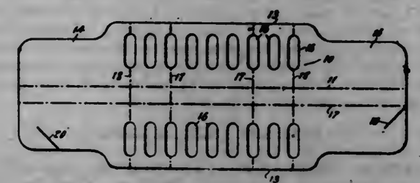
A road marker comprising a unit cast head and shank having cooperative openings, the structure having the characteristic that portions of the head are angularly disposed with relation to its flush bearing surface and that the openings of the head are radially inclined in coincidence with the angle so that spikes or the like driven fastenings will be guided in positive fashion by said openings so as to intersect in the opening of the shank.

1,918,100. GAS GATHERING SYSTEM. AUDLEY E. HARNSBERGER, Chicago, Ill., assignor to The Pure Oil Company, Chicago, Ill., a Corporation of Ohio. Filed Feb. 2, 1929. Serial No. 337,120. 5 Claims. (Cl. 220—85.)



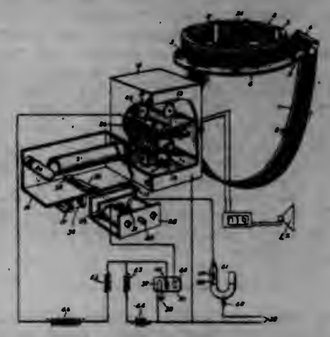
1. In a gas gathering system, an oil storage tank, a compressor, a floating roof tank, said latter tank being adapted to contain a body of liquid, a pipe line between the gas space in the storage tank and the gas space in the floating roof tank, a pipe line between the gas space in said floating roof tank and the inlet side of said compressor, a valve in said latter pipe line, means following said compressor for separating liquid and gaseous content of the fluids discharged from the compressor, a pipe line for receiving the separated gases and leading the same back to the gas space in said floating roof tank, a valve in said latter pipe line, and means responsive to the rise and fall of the movable section of said floating roof tank to regulate the opening and closing of said valve.

1,918,101. SHAVING BRUSH. JACOB M. HENRIQUES, Curacao, Dutch West Indies. Filed June 25, 1931. Serial No. 546,865. 2 Claims. (Cl. 15—209.)



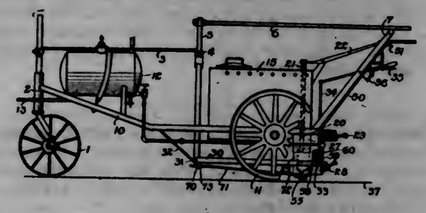
1. In an article of the class described, an elongated flat thin paper member with means for securing the ends thereof together, there being openings in the member between and spaced from its ends, there being spaced apart transverse folds in the member passing through certain of the openings.

1,918,102. FILM SOUND RECORD APPARATUS. CLARENCE W. HEWLETT, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 6, 1929. Serial No. 360,974. 5 Claims. (Cl. 179—100.3.)



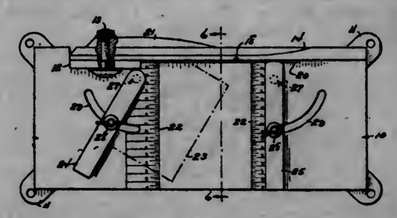
1. Film sound record apparatus comprising film driving means, optical means for directing a narrow light beam on a film driven thereby, a support for the optical means mounted for movement transversely of the film, electromagnetic means for shifting said support to each of a plurality of predetermined positions and contact means in circuit with said electromagnetic means adapted to be bridged by a conducting member on said film.

1,918,103. LINE MARKER. EVERETT H. HOLLINGSHEAD. Dayton, Tex. Filed June 7, 1929. Serial No. 369,026. 1 Claim. (Cl. 91—43.)



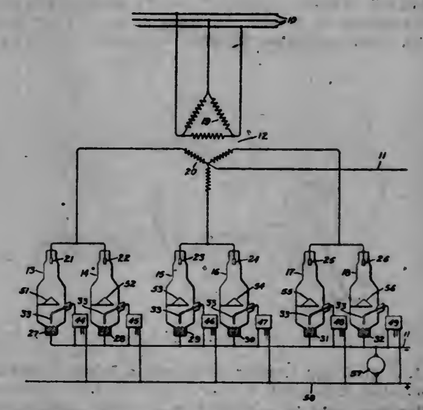
In a marking apparatus, a supply tank, a discharge container, a valve operable to control the flow of liquid from said tank, an overflow line for said container, a cutoff valve below said container to prevent escape of liquid therefrom, and a discharge nozzle below said valve and adapted to contact the surface being marked, said nozzle including a block of rigid material with substantially thick walls inclined rearwardly and having a passage therethrough for marking material.

1,918,104. SHINGLE CUTTER. REUBEN E. HOOK, Lewistown, Pa. Filed Apr. 4, 1932. Serial No. 603,189. 1 Claim. (Cl. 164—44.)



A cutter of the character described comprising a table having at one side thereof an upstanding pivot ear, a swinging knive lever pivoted to said ear and having a cutting blade inset in said lever to have its outer face flush with the adjacent face of said lever, a handle formed on the end of the lever remote from its pivotal axis, said lever being provided with a shoulder forming a stop to coact with the table on the lowering of the lever to limit downward movement thereof, said table being provided with a clearance for the play of the cutting edge of the blade of said lever, spaced parallel scales indicia disposed at the upper face of the table and at right angles to the cutting blade, fences arranged on the table and each pivoted at its end next to the lever adjacent to a scale indicia, said table being formed with arcuate-shaped slots, and clamping bolts carried by the fences and working in said arcuate-shaped slots to secure the fences in adjusted position on the table.

1,918,105. TRANSMISSION OF ELECTRIC POWER. ALBERT W. HULL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 25, 1930. Serial No. 431,328. 10 Claims. (Cl. 175—363.)

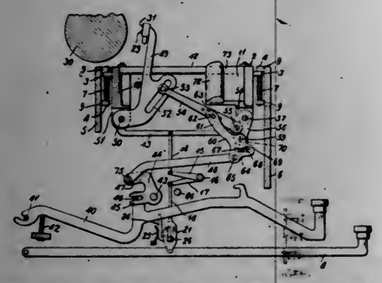


1. The combination of a pair of parallel-connected vapor electric devices each provided with a cathode, an anode and an exciting electrode, excitation means connected between each of said cathodes and the corresponding exciting electrode, means including a winding and direct current circuit terminals connected between said anodes

and cathodes, and means responsive to a reverse arc in each of said devices for interrupting the associated excitation means.

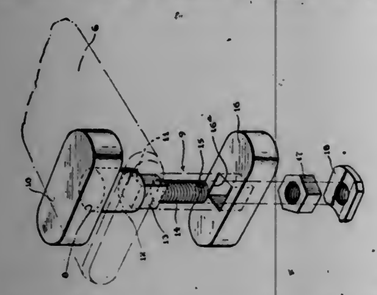
9. The combination of a unidirectional electric translating circuit, a vapor electric device included in said circuit, an excitation circuit for said device and means responsive to a reverse arc in said device for interrupting said excitation means.

1,918,106. NOISELESS TYPEWRITER. CARL A. JORRISSEN, Paris, France. Filed June 17, 1931. Serial No. 545,094. 11 Claims. (Cl. 197—27.)



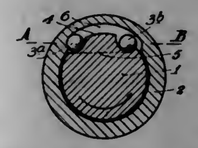
1. In a typewriting machine; a platen; a type bar; a checking member therefor; a rocking member to which one end of said checking member is pivoted; a lever pivoted to both of said members; connections between said type bar and said checking member whereby they are constrained to swing simultaneously in such a way that said checking member moves to checking position as said type bar travels from position of rest to a point a short distance from said platen; key actuated means for moving said lever to cause said checking member and type bar to execute said simultaneous swinging movements; means for holding said rocking member substantially stationary throughout said simultaneous movements; said holding means being adapted to allow said rocking member positively to be rocked by said lever after said type bar has been checked, to thrust said checking member forward and thereby complete the printing stroke of said type bar.

1,918,107. CROSS COUPLER DRAFT KEY RETAINER. SYLVESTER L. JOINER, Sweetwater, Tex. Filed Sept. 24, 1931. Serial No. 564,929. 5 Claims. (Cl. 85—5.)



1. A draft key retainer comprising a T-bolt having an elongated fixed head, a body portion and an elongated detachable head of substantially the same configuration as the said fixed head, said body consisting of a round portion, a non-circular portion and an extension from said non-circular portion of less width than the latter, the length of the round portion being substantially the equivalent to the thickness of the draft key and the diameter of which is less than the length of the minor axis of the said heads so that when inserted in an opening in a draft key the lower portion thereof will be substantially flush with the lower surface of the draft key and the opposing surfaces of the said heads will engage the upper and lower surfaces of the draft key, said detachable head being provided with an aperture opening of non-circular formation adaptable for engagement with the non-circular portion of the body and maintained substantially parallel to said fixed head, and means to maintain said detachable head in engagement with said body.

1,918,108. TUBULAR SHAFT COUPLING. HENRI WOUTER JONKHOFF, Dusseldorf, Germany. Filed Dec. 28, 1931, Serial No. 583,557, and in Germany Jan. 2, 1931. 2 Claims. (Cl. 287—58.)



1. In combination, a pair of rotary elements one extending through the other and relatively slidable axially, one of said elements having an endless raceway opening at all points through the surface of said member which faces the other member, balls disposed in said raceway, the other element having a pair of shoulders one cooperating with the balls in one side portion of said raceway and the other cooperating with the balls in the other side portion of the raceway whereby rotation of either element in either direction imparts corresponding rotation to the other element, the relative circumferential spacing of the side portions of the raceway and said shoulders being such that when either element is rotated the balls in one side portion of the raceway operate to transmit the rotary motion to the other element and the balls in the other side portion of the raceway are permitted to travel freely through said portion.

1,918,109. REEL PACKAGE. LYNDON W. JOYCE, Greensboro, N. C. Filed Sept. 9, 1931. Serial No. 561,942. 2 Claims. (Cl. 206—52.)

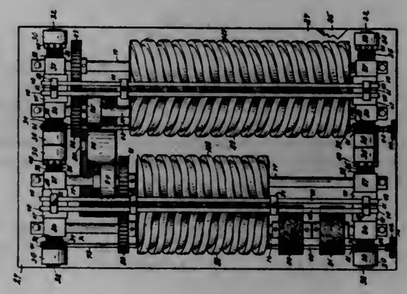


1. Package for a reel of elastic comprising a cylindrical container constituted by impervious flexible heads including impervious peripheral cylindrical flanges meeting to form an intermediate circumferential joint, and a sealing strip of flexible material, frangible under repeated slight bucklings at said joint, adhesively applied to said flanges and bridging said joint, said heads being sufficiently flexible to yield compensatingly to pressure variations within said container, so as to avoid repeated slight bucklings at the joint due to successive tension and contraction incident to said pressure variations.

1,918,110. MANUFACTURE OF BORIC ACID. ANDREW KELLY, London, England, assignor to Borax Consolidated Limited, London, England. Filed Mar. 11, 1931, Serial No. 521,884, and in Great Britain Aug. 20, 1930. 1 Claim. (Cl. 23—149.)

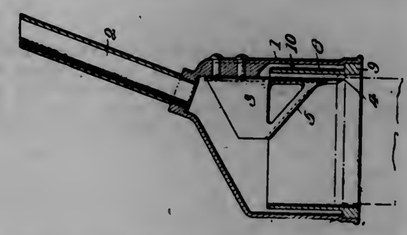
A process for the manufacture of boric acid which comprises adding borax to a hot mother liquor containing sodium sulphate, sodium bisulphate, and boric acid, boiling said mother liquor to precipitate anhydrous sodium sulphate, decanting the resultant solution from said sodium sulphate, adding an excess of sulphuric acid to said decanted solution, thereby causing some precipitation of boric acid and conversion of some Na_2SO_4 to $NaHSO_4$, cooling said decanted liquor down to a temperature of approximately 80° C., whereby additional boric acid is crystallized out, separating boric acid from the resultant mother liquor, heating said mother liquor, adding borax to said hot mother liquor and repeating the cycle of steps.

1,918,111. MACHINE FOR SHARPENING RAZOR BLADES. ALFRED A. KOHLMILLER, Los Angeles, Calif. Filed May 20, 1930. Serial No. 453,959. 9 Claims. (Cl. 51—80.)



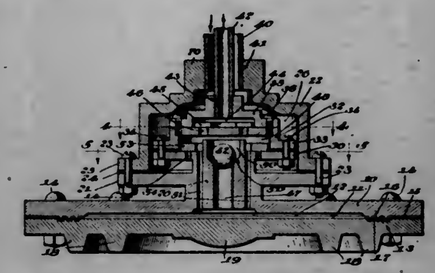
1. In a machine for sharpening razor blades the combination with a pair of meshing sharpening rolls, bearing blocks in which the ends of said rolls are journaled, threaded sleeves extending through said blocks for adjusting them independently of one another to move said rolls into parallel alignment, supporting rods extending through said sleeves, pairs of twin posts for supporting said rods, of a support including a pair of spaced carrier bars arranged above said rolls, individual blade holders adapted to be loosely mounted on said bars so that the edges of their razor blades will properly engage the rolls by gravity, means for driving said rolls to sharpen said blades.

1,918,112. FUNNEL FOR DISPENSING LUBRICATING OIL. ALFRED L. KRONQUEST, Syracuse, and FARRELL G. SEARLE, Bronxville, N. Y., assignors to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed June 30, 1932. Serial No. 620,257. 1 Claim. (Cl. 221—23.)



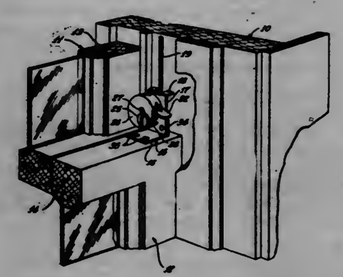
A dispensing funnel for hermetically sealed containers comprising a body portion shaped to conform to the container and adapted to recive the end portion thereof, said body portion having means attached thereto at the open end thereof for collecting lubricating oil adhering to the inner wall of the funnel and flowing along said wall when the funnel is inverted for storage, and a cutter located within the funnel and attached to the body portion thereof, said cutter being disposed so that the outer face thereof is spaced from the wall of the container and lies in a line spaced from the collecting means for the lubricating oil so that when said funnel is lowered on to a container, said cutter will pierce the container end close to the double seam of the container for forming a dispensing opening in the end thereof.

1,918,113. DEVICE FOR HEATING WATER. ELMER JESSE LEE, Bangor, Pa. Filed June 23, 1932. Serial No. 618,983. 3 Claims. (Cl. 122—89.)



1. A water heater comprising a heating plate, a base plate secured to the heating plate and having a dished portion on its inner face to provide a water heating chamber of restricted depth, a boss projecting centrally from the base plate, a disk formed integrally with the boss and spaced from the base plate, a cup-shaped member having the inner end provided with an annular flange secured to the disk to form an inlet chamber for the liquid, the boss being provided with longitudinal passages connecting the inlet chamber with the heating chamber, a valve for controlling the inflow of water to the heating chamber, a pipe connecting the inlet chamber with a source of water to be heated, an auxiliary chamber within the inlet chamber, a discharge pipe connected with the auxiliary chamber, the boss being provided with a passage connecting the auxiliary chamber with the heating chamber, and a check valve controlling the last mentioned passage.

1,918,114. WINDOW LATCH. HENRY LORENZEN, Crete, Ill. Filed Oct. 19, 1931. Serial No. 569,771. 4 Claims. (Cl. 292—242.)



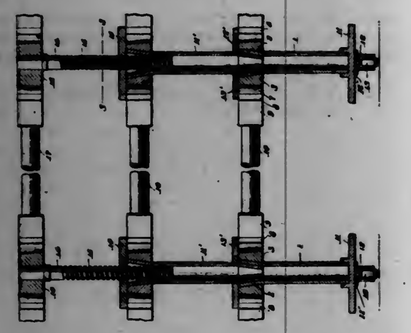
1. In a device of the character described, a support adapted to be mounted on the upper rail of the lower sash of a window and including an upright portion, a member mounted on said upright portion, a cam eccentrically mounted on said member and having a segmental recess in its peripheral surface, means arranged about said member urging said cam into frictional engagement with a stile of the upper sash of the window, and a retaining element carried by said member exteriorly of the cam and adapted to move into the segmental recess, when the cam is rotated in a direction opposite to that in which it is urged by said means, to retain the cam in ineffective position.

1,918,115. FLOWER HOLDER. JOHN H. LUFT, Providence, R. I. Filed Apr. 28, 1933. Serial No. 668,861. 15 Claims. (Cl. 24—6.)



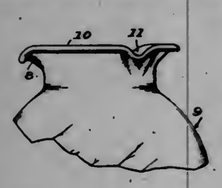
1. A flower holder comprising a body member having spaced portions to engage one side of the stems of a bunch of flowers, a resilient finger arcuate in shape provided on and extending over the space between said portions of the body member to engage the other side of the stems of a bunch of flowers, said space providing a recess beneath the overextending finger to facilitate entrance beneath the same and to provide additional gripping edges and means secured to the body for supporting the same on a garment or other support.

1,918,116. SCAFFOLDING. JAMES T. MANSFIELD, Pittsburgh, Pa. Filed June 9, 1931. Serial No. 543,173. 2 Claims. (Cl. 304—2.)



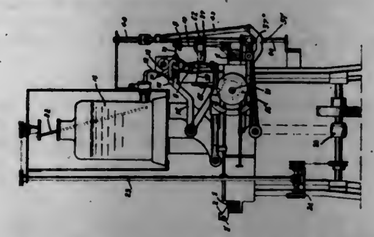
1. A scaffold construction comprising posts having upper headed ends provided with angularly disposed keyhole slots the inner passages of which are wedge-shaped, horizontal and transverse brace members having wedge tongues on their ends to be received in the wedge slots of the heads, and plates screwed on the posts and disposed directly over the heads contacting with and for holding the wedge tongues in the wedge slots.

1,918,117. METHOD OF AND MEANS FOR PREVENTING AQUEOUS LIQUIDS FROM DRIPPING FROM THE LIPS OF VESSELS. HAROLD HAYS MARTIN, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed July 6, 1931. Serial No. 549,046. 5 Claims. (Cl. 53—3.)



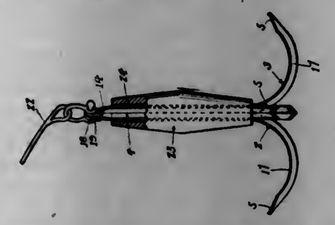
1. A vessel having a pouring lip, a portion of which has permanently incorporated with its surface a transparent fired on coating of metallic oxide which resists wetting by aqueous solutions.

1,918,118. AUTOMATIC MACHINE FOR FILLING AND SEALING AMPULES, PHIALS, AND THE LIKE VESSELS. LUIGI MARZOCCHI, Milan, Italy. Filed Jan. 10, 1930, Serial No. 419,939, and in Italy Jan. 23, 1929. 7 Claims. (Cl. 226—75.)



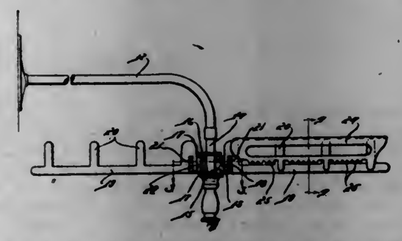
1. In an automatic ampul filling machine comprising ampul trimming, filling, sealing and delivery stations in series, a travelling ampul holder and feed means operative for advancing said holder from station to station, the combination with the feed means of ampul inverting mechanism disposed between the trimming and filling station.

1,918,119. ANCHOR. WILSON L. MCPHEETERS, North Hollywood, Calif. Filed July 30, 1932. Serial No. 626,929. 15 Claims. (Cl. 114—206.)



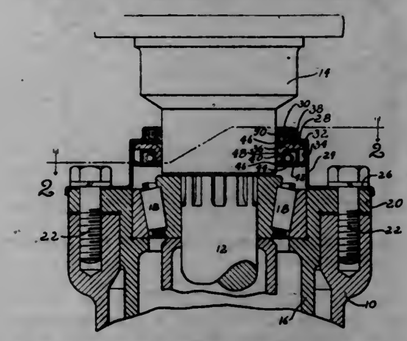
1. An anchor comprising, fluke elements of V-shaped cross section, each including a shank portion and a gripping portion, and a tubular removable combined holding and weighting element encompassing and contacting with the front edges of the shank portions for maintaining the inner faces of the latter in abutting engagement throughout and for maintaining said gripping portions at right angles to each other, said element seated at its inner end at the point of mergence of the gripping portions with the shank portions.

1,918,120. SUPPORTING BRACKET. FRANK MIADOWICZ, Detroit, Mich.; Herman A. August, special administrator of said Frank Miadowicz, deceased, assignor to James Morrow, Detroit, Mich. Filed Oct. 12, 1929. Serial No. 399,116. 1 Claim. (Cl. 211—95.)



In a device of the class described, a flat elongated supporting arm; a plurality of prongs projecting outwardly from one edge of said arm in spaced relation to each other; a substantially U shaped shield detached from and adapted for being loosely positioned in inverted position over said prongs, the edges of said shield being spaced apart a distance greater than the width of said arm; and teeth formed on the edges of said shield and terminating at substantially the plane of said edge of said arm.

1,918,121. LUBRICANT SEAL. WILLIAM A. MULHERN, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed July 28, 1930. Serial No. 471,211. 1 Claim. (Cl. 286—5.)



A seal comprising a cage having axially spaced annular portions extending substantially in a radial plane, an annular member having a peripheral flange portion and a radial flange portion abutting one of the annular portions of said cage and forming an annular space between said radial flange and the other annular portion of said cage, a textile packing in the annular space provided at one side of said radial flange portion, a leather packing member abutting the opposite side of said radial flange portion having a round corner adjacent said textile packing, an annular washer like member held in position by the peripheral flange portion of said annular member, and means between said washer like member and leather packing for retaining said leather packing in sealed engagement with said radial flange portion.

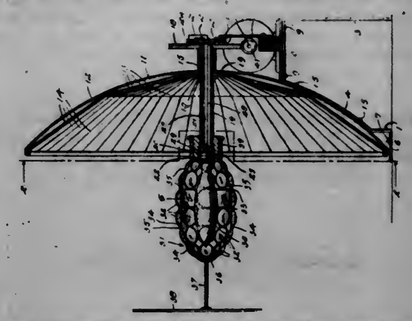
1,918,122. MECHANICAL TOY. RICHARD J. NAUB, Chicago, Ill. Filed Feb. 15, 1933. Serial No. 656,791. 5 Claims. (Cl. 46—40.)



1. In a mechanical toy having an irregularly shaped body with openings therein, a pyrophoric member mounted within the body adjacent the openings, a friction wheel contacting the pyrophoric member, means normally extended exteriorly of the body and in telescopic relation therewith, and a threaded shaft providing a driving connection between the friction wheel and the first mentioned means.

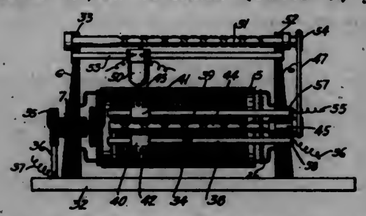
1,918,123. ILLUMINATING APPARATUS. FRANK NEWMAN, Bronx, N. Y. Filed Oct. 15, 1931, Serial No. 569,051. Renewed May 29, 1933. 3 Claims. (Cl. 240—10.1.)

1. An illuminating apparatus of the character set forth, comprising a stationary reflector, a shaft arranged at the axis of the reflector and journaled thereon, an electric lamp carried by and rotatable with the shaft in front of the reflector, a globe secured to the shaft in surrounding relation to the lamp and consisting of differently colored lenses arranged to provide intervening openings therebetween, means for rotating the shaft,



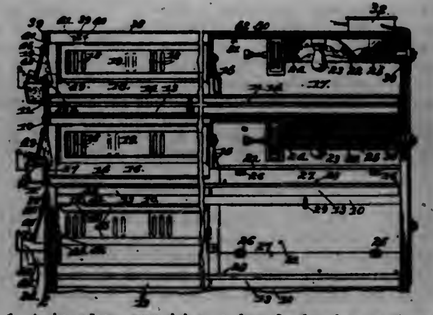
means for supplying the lamp with current, and a transparent element secured to and arranged in front of the globe and rotating therewith.

1,918,124. ARC SCANNING FACSIMILE SYSTEM. ALEXANDER MCLEAN NICOLSON, New York, N. Y., assignor to Communication Patents, Inc., New York, N. Y., a Corporation of Delaware. Filed Aug. 25, 1930. Serial No. 477,534. 18 Claims. (Cl. 178—7.)



1. In a transmission system having a light transmission medium adapted to support written intelligence, the combination of a source of light in the form of an electrical discharge, means for progressing said source over said written intelligence, said means having cooperating electrodes which direct light from said discharge over unit areas of said intelligence, one of said electrodes being spirally disposed adjacent said intelligence, and means for detecting variations in light and shade in said written intelligence.

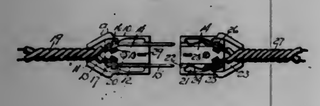
1,918,125. BROODER. RAY M. PETERSIME, Gettysburg, Ohio. Filed Aug. 25, 1930. Serial No. 477,687. 3 Claims. (Cl. 119—33.)



1. A brooder comprising a brood chamber, a trough extending along an edge thereof, hooks situated on the confronting edge, a bracket carried by said chamber be-

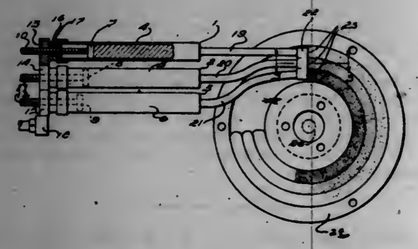
side the trough and having notches, a panel comprising part of a side of the chamber, a detent carried by the panel being set in the various notches to adjust the slit between the panel and the trough, and lugs on the panel having elongated slots receiving the hooks, enabling relative motion when adjusting the panel in respect to the trough and the detent in respect to the bracket.

1,918,126. ELECTRICAL CONNECTER. JOHANN G. PETERSON, West Hartford, Conn. Filed June 24, 1929. Serial No. 373,324. 2 Claims. (Cl. 173—332.)



1. A socket member comprising two parts, each having complemental blade recesses and cable recesses, an abutment separating said blade recesses, said abutment having a tapered end forming shoulders converging toward their outer ends into said cable recess, blades located in said blade recesses and having bent ends resting against and supported by the tapered portions of said abutment, binding screws for securing wires to the bent ends of said blades, and means for securing said parts together to firmly retain said conducting members in place.

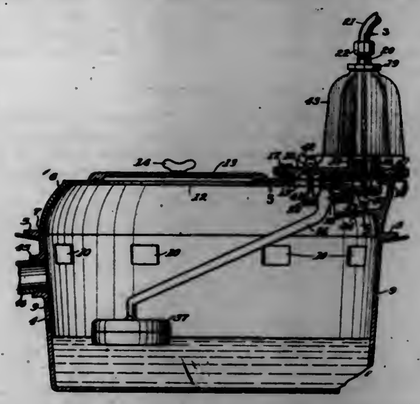
1,918,127. FRICTIONAL LINING EXTRUDING APPARATUS AND METHOD. KARL PFEIFFER, Highland Park, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 25, 1930. Serial No. 491,300. 5 Claims. (Cl. 18—13.)



3. In extruding apparatus, a plurality of ejecting units each adapted to discharge material at a different rate, a plurality of discharge ducts, one communicating with each ejecting unit, and a common nozzle communicating with the outlet ends of said ducts, said nozzle having a restricted discharge passage for forcing the adjacent edge portions of the materials discharged from said ejectors together so as to commingle the material thereof at said edge portions and to form an integral product.

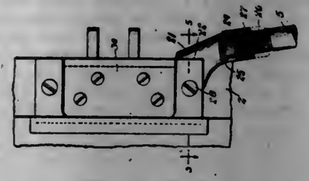
1,918,128. FLOAT CONTROLLED VALVE MECHANISM. FREDERIC D. PFENING and HENRY PFENING, JR., Columbus, Ohio, assignors to The Fred D. Pfening Company, Columbus, Ohio, a Corporation of Ohio. Filed June 23, 1931. Serial No. 546,350. 4 Claims. (Cl. 137—68.)

1. A float controlled valve structure for regulating the flow of liquid into a reservoir, comprising a movable valve member, a pivoted lever engaging said member, a pivoted and adjustable yoke, and a float carrying arm provided



with a cam engaging the outer free end of said lever and pivoted to said yoke.

1,918,129. AUTOMATIC STAY FOR LOCK KEEPERS. JAMES E. PHILLIPS, New York, N. Y. Filed May 9, 1932. Serial No. 610,201. 3 Claims. (Cl. 292—338.)



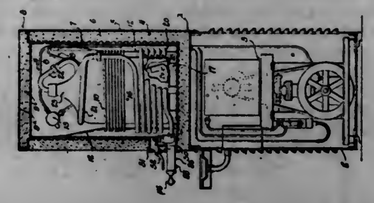
1. A stay for lock keepers including a reinforcing plate having a depression, means for fastening a lock keeper in said depression, a fitting having a notched formation substantially straddling one corner of said plate, said notched formation merging into a reduced extension and a brace removably connected with said fitting for bracing the same part of said brace slidingly fitting over said reduced extension.

1,918,130. THERMOMETER. MICHAEL PHILIPSEN, Vedbak, Denmark. Filed Oct. 31, 1930. Serial No. 492,554. 3 Claims. (Cl. 73—52.)



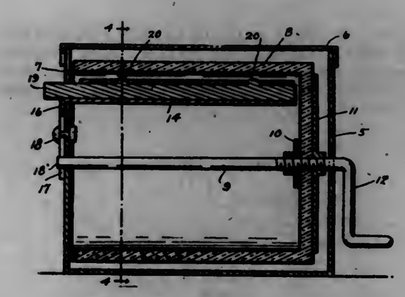
1. A clinical thermometer having a mercury column and a magnifying portion in front of the column, sighting means for facilitating alining the mercury column and magnifying portion in the line of vision of an observer, said means comprising indicating marks on a part on the thermometer through which the marks are visible, and said marks being arranged at opposite sides of said part in a common plane through the mercury column and magnifying portion such that when said marks register in the line of vision of an observer the mercury column and magnifying portion also register in said line of vision for clear reading through said magnifying portion of the length of the mercury column.

1,918,131. WATER COOLER. GUY S. RANSTEAD, Waukesha, Wis. Filed Apr. 24, 1929. Serial No. 357,665. 5 Claims. (Cl. 62—141.)



1. A device for use in cooling and dispensing water and comprising a heat insulated casing having a cooling chamber adapted to receive a water container in upright position, means for cooling said chamber, a water cooling coil disposed in said chamber, means affording communication between one end of the coil and the water in the container and means connected to the other end of the coil for dispensing water therefrom and comprising a pump having a valve controlled inlet connected to the coil, a nozzle and a valve controlled outlet between the pump and the nozzle.

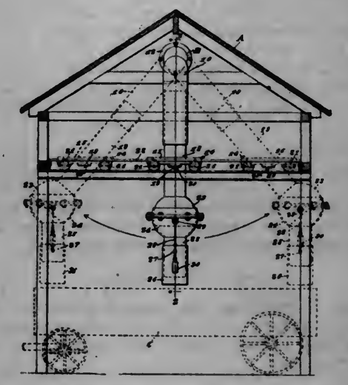
1,918,132. RAZOR BLADE SHARPENER. SAMUEL RHEA, Mendota, Ill. Filed Mar. 25, 1932. Serial No. 601,249. 2 Claims. (Cl. 51—73.)



2. A razor blade sharpening device comprising a cylindrical body, means for rotatably mounting the body, means for rotating the body, and razor blade supporting means in the body for holding a razor blade with its knife edge or edges in bearing contact with the inner periphery of the body, said razor blade supporting means comprising a frame, means for supporting the frame to be disposed inside the body and adjustable radially thereof, and a bar having slidable engagement with said frame for supporting a blade in bearing contact with the interior periphery of the body.

1,918,133. SEED COTTON UNLOADING APPARATUS. JESS L. RENNELS, Crowell, Tex., assignor of one-fourth to James A. Presley and one-fourth to Della M. Presley, Vernon, Tex., and one-fourth to Fred Rennels, Crowell, Tex. Filed Sept. 26, 1932. Serial No. 634,969. 5 Claims. (Cl. 302—34.).

1. The combination of an elevated track, a carriage movable upon the track, a pipe length pivotally supported by the carriage, a suction pipe above the track, an elbow swingingly connected with the suction pipe and having the



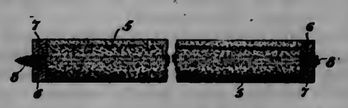
pipe extension telescoped therein, and an extensible mouth piece having universal joint connection with the pipe extension below the track.

1,918,134. CLOSURE PACKING. TONY RESCH, Rockwell, City, Iowa, assignor of one-fourth to Stanley A. Frick, Rockwell City, Iowa. Filed Apr. 15, 1931. Serial No. 530,413. 7 Claims. (Cl. 20—69.)



1. The combination with an article having a movable closure, of a resilient body member thereon, and a coiled spring core within the body and joined at its ends to have said body member yieldably and snugly embrace the movable closure.

1,918,135. ARTICLE OF MANUFACTURE. TONY RESCH, Rockwell City, Iowa, assignor of one-fourth to Stanley A. Frick, Rockwell City, Iowa. Filed Apr. 15, 1931. Serial No. 530,414. 1 Claim. (Cl. 15—257.)

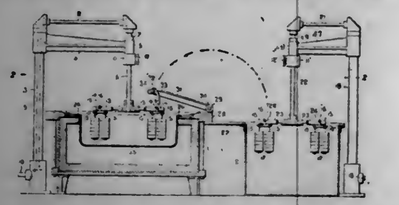


An article of manufacture, comprising a body of sponge rubber having a central bore, a closely coiled expansible spring forming a core within the bore, and a connector for the terminals of the spring and accessible at the ends of the body.

1,918,136. APPARATUS FOR TREATING ARTICLES OF WORK. HEYMAN ROSENBERG, New York, N. Y. Filed Sept. 17, 1931. Serial No. 563,426. 4 Claims. (Cl. 266—4.)

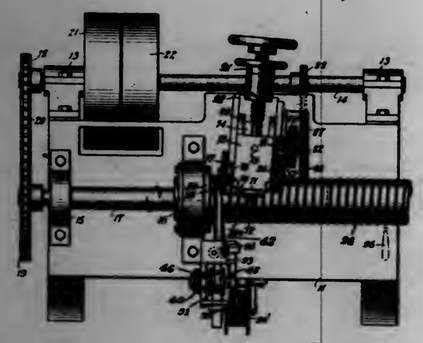
1. In apparatus for treating articles of work, the combination of a pot, work supporting and moving means

for moving work in a continuously advancing direction with a step-by-step movement in a circular path within



the pot, and means for removing work from the pot while leaving the work supporting and moving means in position to support newly supplied work in the pot.

1,918,137. MACHINE FOR MANUFACTURING STIFF SPIRAL TUBES. WINTHROP T. SCARRITT, Utica, N. Y. Filed May 1, 1931. Serial No. 534,407. 16 Claims. (Cl. 113—35.)

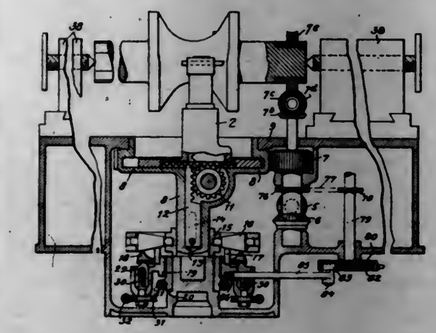


1. In a machine for manufacturing stiff spiral tubes, a spindle, means for bending the sides of a strip of stock, means for feeding the strip of stock to the spindle to form helixes therearound, a finger disposed at the spindle for engaging the outer face of a bent side of the strip of stock for tucking the said bent side into a bent side of a helix for interlocking the said sides, and means for compressing the said bent interlocking sides.

1,918,138. APPARATUS FOR MACHINING ROLLS FOR ROLLING MILLS AND THE LIKE. HANS SCHIMMEL, Komotau, Czechoslovakia. Filed Dec. 7, 1931, Serial No. 579,615, and in Germany Dec. 24, 1930. 17 Claims. (Cl. 82—18.)

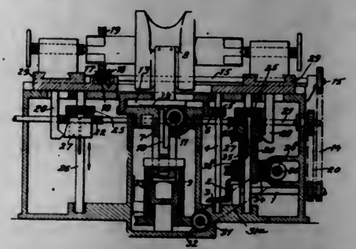
1. In an apparatus for machining the circumferential portions of rolls of the type described the combination of means for supporting at least one roll to be machined, a tool holder rotatable about an axis disposed transversely to the axis of a roll located in said supporting means, means for rotating said tool holder for cutting, means for rotating said at least one roll for feeding the same to said cutting, means operable to move said tool holder radially with respect to the axis of rotation thereof as said tool holder rotates, and mechanism operable to control the effective operation of said moving means whereby said radial movements of said tool holder can be effected during any selected angle of rotation thereof.

17. In an apparatus for machining the circumferential portions of rolls of the type described, the combination of means for supporting a pair of rolls to be machined, an arbour rotatable about an axis disposed transversely to the plane extending through the axes of a pair of rolls supported by said means, means for rotating said arbour, a tool holder extending between said rolls and operatively connected to said arbour so as to rotate therewith and slidable in guides thereon radially with respect to the axis of rotation of said arbour, mechanism operable to effect radial displacements of said tool holder on said arbour including at least a pair of cams movably mounted upon a supporting member, a crank mechanism operatively connected to said supporting member and operable



to oscillate said member about the axis of said arbour and an operative driving connection between said crank and said means for rotating said arbour, mechanism carried by said supporting member operable to move said cams and vary the effective height thereof and an operative connection, including a telescopic driving spindle between said mechanism and driving means therefor independent of said supporting member.

1,918,139. METHOD AND APPARATUS FOR MACHINING ROLLS FOR ROLLING MILLS. HANS SCHIMMEL, Komotau, Czechoslovakia. Filed Dec. 8, 1931, Serial No. 579,761, and in Germany Jan. 28, 1931. 27 Claims. (Cl. 82—18.)

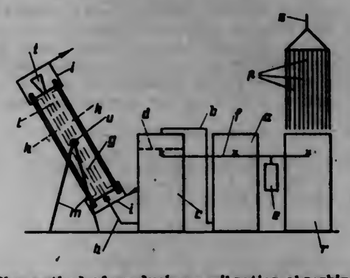


1. A method of machining the circumferential portions of rolls, for example, rolls for Pilger rolling mills, which consists in subjecting a roll to cuts axially thereof from an edge cutting tool as the tool rotates in a plane substantially parallel to or coincident with a plane extending through the axis of rotation of the roll, and the roll is moved axially so that the path of the tool relatively to the roll conforms to the contour of the desired cross section of the roll, and feeding the roll to the tool between cutting operations by rotating the roll.

25. In an apparatus for machining the circumferential portions of rolls of the type described, the combination of means for supporting at least one roll to be machined, an arbour rotatably mounted about an axis disposed transversely to the axis of a roll supported by said means, means for rotating said arbour, a tool holder mounted upon said arbour so as to rotate therewith and movable thereon radially with rerspect to the axis of said arbour, mechanism operable to effect said radial displacement of

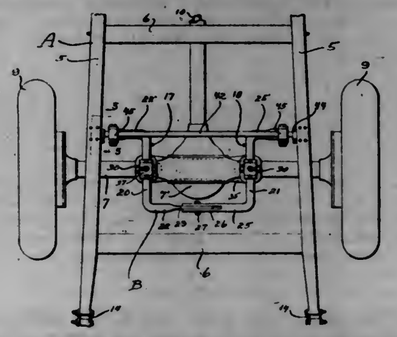
said tool holder, a pair of cam drums of varying axial cross-section, each mounted upon and rotatable with a spindle, means for rotating said spindles in unison including at least one worm and worm wheel, driving connections between said cam drums and said roll supporting means operable to move said support axially of a roll supported thereby as said arbour rotates, mechanism operatively connected to said cam drums and operable to displace the same axially relatively to said means operatively connecting the same to said roll supporting means, an operative driving connection between said worm and said tool holder and mechanism operable automatically to displace said worm axially in both directions as the same rotates.

1,918,140. PROCESS OF PRODUCING ISOLATING PLATES FOR DEADENING NOISES AND VIBRATIONS. ERNST SCHLUTER, Berlin-Johannisthal, Germany, assignor, by mesne assignments, to Keldur Corporation, Newark, N. J., a Corporation of New Jersey. Filed July 6, 1929, Serial No. 376,480, and in France Feb. 19, 1929. 13 Claims. (Cl. 18—47.5.)



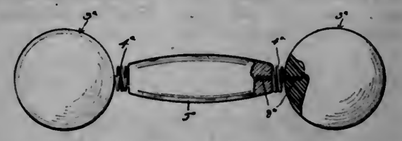
1. The method of producing a vibration-absorbing product which comprises molding a plastic coherent mass compounded mainly of a gelatin-like substance and a glyceric substance, and impregnating the molded product after appropriate curing by immersion in a liquid containing at least one agent for increasing the resistance of the product in its contemplated use as a vibration-absorbing medium to the deteriorating influences of temperature, moisture and decomposition.

1,918,141. EQUALIZER FOR VEHICLE SPRINGS. CONWAY B. SMITH, Portsmouth, Va. Filed July 3, 1931. Serial No. 548,654. 10 Claims. (Cl. 267—11.)



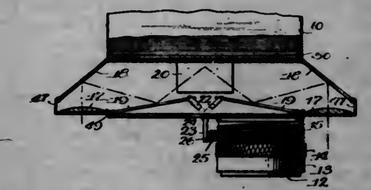
1. In an equalizer, in combination with a frame, a supporting member extending transversely below the frame and spaced apart springs supporting the frame upon the supporting member; bearing blocks mounted in spaced relation on the supporting member, a lever arm having a central portion, an inner end portion inclined upwardly and an outer end portion inclined downwardly, said central portion pivotally mounted intermediate its ends in each bearing block, the end portions of each lever being inclined in the same plane and parallel to each other, means connecting the inner end portions of the lever arms for corresponding vertical swinging movement, and means adjustably and pivotally connecting the outer end portions of the lever arms to the frame to permit vertical and lateral movement of the frame relative to the supporting member.

1,918,142. EXERCISING DEVICE. PURNELL W. SMITH, Philadelphia, Pa. Filed Oct. 26, 1932. Serial No. 639,543. 9 Claims. (Cl. 272—84.)



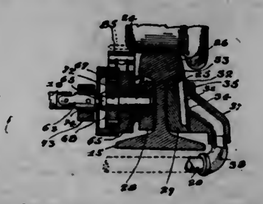
1. An exercising device comprising a handle, and a weight resiliently connected to each end of said handle for swinging movements.

1,918,143. ADJUSTMENT INDICATING MECHANISM FOR CAMERAS. WARD H. SNYDER, Chicago, Ill., assignor of one-third to Frank F. Farkas and one-third to E. N. Farkas, Chicago, Ill. Filed Jan. 11, 1929. Serial No. 331,912. 4 Claims. (Cl. 95—44.)



1. In combination with a camera, a finder therefor, a pair of lenses for said finder, a single screen for said lenses, a movable reflector for each of said finder lenses, and means actuated by the focusing adjustment of the camera for moving said respective reflectors and impairing the image in the finder when the camera lens is not in focus with such image.

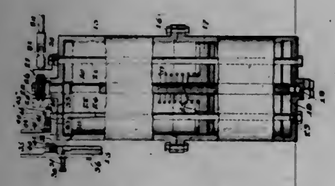
1,918,144. RAIL FLANGE LUBRICATOR. CHARLES STERN, Jersey City, N. J., DE LANCEY W. DAVIS, Sayre, Pa., and HENRY C. GILLESPIE, Huntington, W. Va., assignors to Ardco Manufacturing Company, Hoboken, N. J., a Corporation of Delaware. Filed Jan. 9, 1932. Serial No. 585,568. 8 Claims. (Cl. 184—3.)



1. In a rail flange lubricator, a side plate for attachment to a rail, a spindle mounted on the side plate having a disc thereon with inclined slots in its periphery, rollers mounted in said slots, a rocking member mounted on said side plate, a ring secured in the locking member

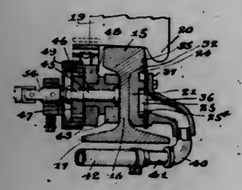
and encircling the disc for interlocking engagement with the rollers when the locking member is turned in one direction, a cap carried by the rocking member and enclosing the disc and rollers therein, a resilient depressible member carried by the side plate and connected to the rocking member and adapted for engagement with the wheels of rolling stock to turn said rocking member, and a friction brake operable on said spindle to yieldingly hold the same against backward movement upon the return rotation of the rocking member to normal position.

1,918,145. LUBRICATOR SUPPLY TANK. CHARLES STERN, Jersey City, N. J., assignor to Ardco Manufacturing Company, Hoboken, N. J., a Corporation of Delaware. Filed Oct. 24, 1932. Serial No. 639,376. 6 Claims. (Cl. 184—37.)



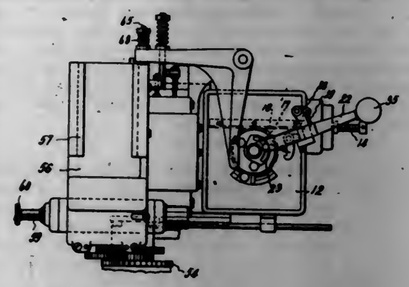
1. In a lubricator, a container for lubricant, a threaded shaft mounted in the container, a follower threaded on said shaft in the container, guide members mounted in the container and engaging the follower to hold the same from turning on the shaft, one of said guide members mounted for rotation in the container, turning means disposed between said rotatable guide member and the follower for turning the guide member upon longitudinal movement of the follower, trip means mounted on said rotatable guide member, an operating shaft, and a separable connection between said operating and threaded shafts and having a portion disposed in the path of said trip member for separating the connection when the trip member is turned into a predetermined position.

1,918,146. RAIL AND WHEEL FLANGE LUBRICATOR. CHARLES STERN, Jersey City, N. J., assignor to Ardco Manufacturing Company, Hoboken, N. J., a Corporation of Delaware. Filed Nov. 2, 1932. Serial No. 640,903. 12 Claims. (Cl. 184—3.)



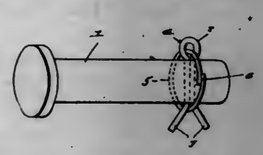
8. In a rail and wheel flange lubricator, a body plate having upper and lower cavities with intercommunicating spaced openings therebetween, a distributing plate closing said cavities at one side and having outlet grooves in the inner side of its upper end portion to provide outlet openings for lubricant from the upper cavity, and a clamping plate for securing said body and distributing plates together and having supply means for connection with a source of lubricant under pressure.

1,918,147. CARRIAGE POSITIONING MECHANISM FOR GRINDING MACHINES. BYRON F. STOWELL, Springfield, Mass., assignor to Van Norman Machine Tool Company, Springfield, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1930. Serial No. 496,178. 10 Claims. (Cl. 51—165.)



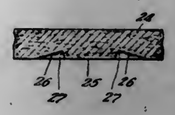
1. A grinding machine having a pair of slides at an angle to each other, a single handle movable through an arc, mechanism operable by the handle while moving through one portion of said arc for moving one slide, and mechanism operable by the handle while moving through another portion of said arc for moving the other slide.

1,918,148. COTTER PIN LOCK. FREDERICK E. STRICKLAND, Alexandria, La. Filed June 20, 1930. Serial No. 462,605. 5 Claims. (Cl. 85—7.)



1. The combination with a shaft having a transverse opening and a cotter pin in the opening, of a ring passed around the shaft through the eye and between the legs of the cotter pin on the opposite side of the shaft.

1,918,149. SOUND TRANSMITTING AND SOUND ABSORBING CONSTRUCTION. JEROME J. SULLIVAN, Madison, Wis., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis., a Corporation of Delaware. Filed May 8, 1931. Serial No. 535,981. 9 Claims. (Cl. 154—44.)

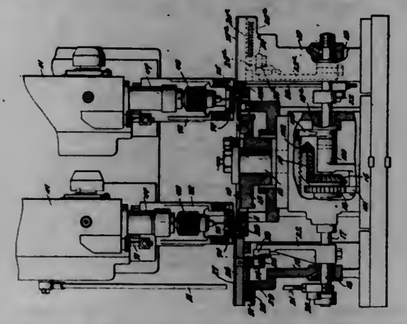


1. In combination with a sound-absorbing material, a facing comprising a thin membrane having struck-up areas with openings in the side walls thereof.

1,918,150. MULTIPLE HEAD AUTOMATIC DRILLING MACHINE. GUNNAR SWAHNBERG and EDWARD JOSLIN KINGSBURY, Keene, N. H., assignors to Kingsbury Machine Tool Corporation, Keene, N. H., a Corporation of New Hampshire. Filed Sept. 11, 1931. Serial No. 562,370. 5 Claims. (Cl. 77—22.)

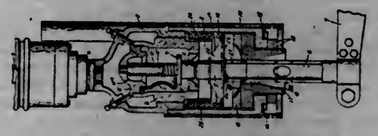
1. A machine for drilling holes in convex end nuts parallel to the axis of the nut and extending through and

at an angle to the convex surface of the nut, comprising a pair of drilling units each including a drill spindle having a drill and automatic means to feed and withdraw said spindle and drill, a work-holding turret having notches which each may receive a nut, plates each associated with a corresponding unit to engage a nut in a corresponding one of said notches whereby to hold the same against rotational movement about its axis, a work clamping device on each unit having a centering pin for entering the hole of the nut whereby to hold the nut against translational movement of its axis and to hold



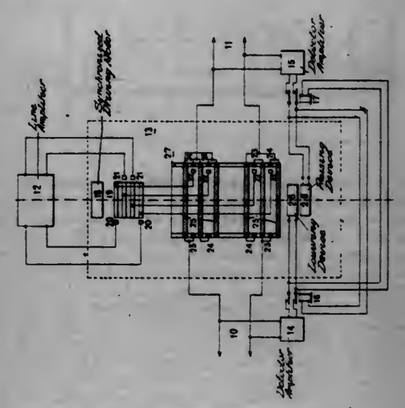
said nut axis at a predetermined distance from the axis of said drill, the drill of one of said units being adapted for spotting the nut and the drill of the other of said units for the finish-drilling operation, means actuated from said first unit for moving said plates simultaneously out of said notches, interlocking means connecting said units so that said actuating means is not operated until both said units have made feeding and withdrawal movements, and means operated with said plate moving means for advancing said turret after said plates have been withdrawn from said notches.

1,918,151. ELECTRIC CIRCUIT BREAKER. WILLIAM TURNPENNY, Albany, and WILFRED F. SEBATS, Scotia, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Apr. 23, 1930. Serial No. 446,744. 4 Claims. (Cl. 200—150.)



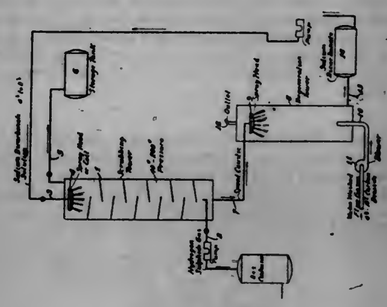
3. A fluid-break switch comprising means forming an explosion chamber including an adapter of conducting material, a contact retainer mounted within said adapter and in conducting relation therewith and a steel cylinder secured to said adapter, arc extinguishing means disposed within said chamber including a butt contact guided for limited reciprocal movement within a lower wall of said retainer, a coacting floating butt contact having a supporting spider mounted for limited reciprocal movement within said chamber, the lower wall of said retainer having a flared arcing portion spaced by a short annular gap with respect to the aforesaid contacts at the point of engagement thereof, insulating structure forming a nozzle-like exhaust opening at the lower part of said chamber through which a movable rod contact is arranged to extend and engage said floating contact, said floating contact being resiliently biased into following engagement with said rod contact so that upon lowering of said rod contact an initial pressure generating arc is formed at one end of said floating contact and said spider engages said insulating structure to form a second arc at said exhaust opening.

1,918,152. TELECOMMUNICATION SYSTEM. GEORGES VIARD, Paris, France. Filed Nov. 10, 1930, Serial No. 494,758, and in France Jan. 8, 1930. 11 Claims. (Cl. 179—170.)



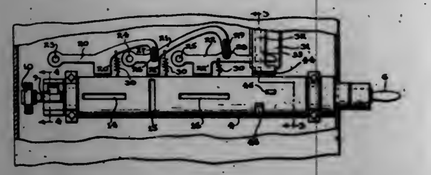
6. A telecommunication system comprising the combination of a transmission line common to both directions of transmission, amplifying or repeating means in said line for communication currents in the two directions of communication, means for continuously reversing the direction of transmission of said amplifying or repeating means, at predetermined intervals of time, during non-transmitting ptriods, and means for setting said amplifying or repeating means, at a communication and for the duration thereof, to transmit only in the direction of said communication.

1,918,153. PROCESS FOR EXTRACTING HYDROGEN SULPHIDE FROM REFINERY GASES. CARY R. WAGNER, Chicago, Ill., assignor to The Pure Oil Company, Chicago, Ill., a Corporation of Ohio. Filed Mar. 18, 1931. Serial No. 523,644. 4 Claims. (Cl. 23—3.)



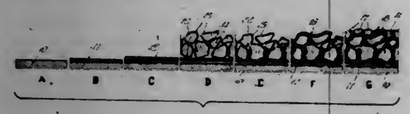
1. In a process for removing hydrogen sulphide from hydrocarbon gases, the combination of steps that consist in: passing the gas under pressure sufficient to greatly increase the concentration of the HS ion in counter-current flow in a confined high pressure zone through a saturated solution of sodium bicarbonate to absorb the hydrogen sulphide from the gas, subjecting the spent solution containing the absorbed hydrogen sulphide to contact with flue gases to remove such hydrogen sulphide from and effect a regenation of the alkaline solution, and utilizing the rejuvenated solution for further gas treatment.

1,918,154. VENDING MACHINE. CHARLES WALKER, Knoxville, Tenn. Filed June 3, 1931. Serial No. 541,791. 10 Claims. (Cl. 194—70.)



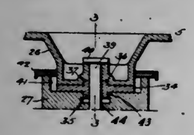
3. A vending machine comprising a casing, a shaft rotatably mounted in said casing, means for rotating said shaft, delivery means operatively connected to said shaft, said delivery means being adapted to vend a predetermined quantity of merchandise upon each complete revolution of said shaft, a rack bar slidably mounted adjacent said shaft and having a series of teeth arranged longitudinally thereon, stop means on said rack bar and complementary stop means on said shaft for normally preventing the rotation of the latter, means for sliding said rack bar rearwardly away from said shaft to release said stop means, a pinion lever mounted adjacent the teeth of said rack bar and adapted to retain said rack bar in a retracted position, trip means on said shaft for releasing said pinion lever upon each rotation of said shaft, and means on said pinion lever for preventing the return of said rack bar for a distance of more than one tooth, upon each rotation of said shaft.

1,918,155. ROAD SURFACING. EDWIN C. WALLACE, Newton, Mass., assignor to Warren Brothers Company, Cambridge, Mass., a Corporation of West Virginia. Continuation of application Serial No. 403,657, filed Oct. 30, 1929. This application filed Dec. 21, 1931. Serial No. 582 461. 6 Claims. (Cl. 94—23.)



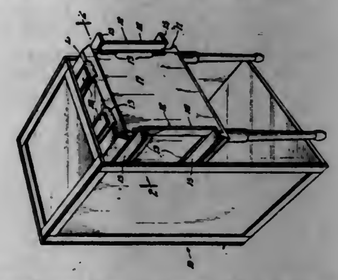
1. The method of surfacing roads and the like which includes applying to surface to be covered, before any stone or other mineral matter is applied thereto, a covering of bituminous cement, then providing thereon a layer of stone elements coated with oil, and compacting the whole.

1,918,156. CENTERING BEARING. ALLEN WALLACE, Moorestown, N. J. Original application filed July 23, 1931, Serial No. 552,714, now Patent No. 1,888,190, dated Nov. 15, 1932. Divided and this application filed June 15, 1932. Serial No. 617,450. 2 Claims. (Cl. 308—137.)



1. The combination in a pivot bearing, of a lower bearing having a recess therein; a plate located in the recess, said lower bearing having a central extension of the recess, the plate having a hub extending into said extension of the recess so that the plate is free to turn in the bearing, said plate having a key rib projecting upwardly therefrom; and an upper bearing extending into the main recess of the lower bearing and less in diameter than the recess and having a groove in its underside, into which the key rib projects to allow the upper bearing to have a certain horizontal movement in the lower bearing, the upper bearing and the plate being free to turn in the lower bearing.

1,918,157. PACKING DEVICE. JAMES R. WATKINS, Chicago, Ill., assignor, by mesne assignments, to Chicago Mill and Lumber Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 21, 1930. Serial No. 497,153. 1 Claim. (Cl. 217—52.)



A spacing frame for a cabinet adapted to space the cabinet from certain walls of a surrounding packing case, said packing device comprising spaced frame members having a cross-section of greater breadth than thickness and disposed in edgewise relationship between the adjacent walls of the packing case and the cabinet, additional frame members also having a cross-section of greater breadth than thickness, said additional frame members being secured in flatwise relationship adjacent the ends of the first mentioned spaced frame members so that the edges of said last mentioned frame members abut respectively against the front and rear walls of said cabinet whereby the frame is adapted to firmly grip the front and rear walls of the cabinet to maintain it in place thereon and to maintain the front and rear walls and a side wall of the cabinet spaced from the corresponding sides of the packing case.

1,918,158. METHOD OF COLORING HAIR. LOUIS WEISBERG and WILLARD F. GREENWALD, New York, N. Y., assignors to Weisberg & Greenwald, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 25, 1931. Serial No. 577,380. 2 Claims. (Cl. 167—87.)

1. The method of coloring living hair upon the human head which comprises applying an ammoniacal solution of a leuco compound derived from a substance containing an indigoid group to the hair and permitting the color to develop on the hair by oxidation.

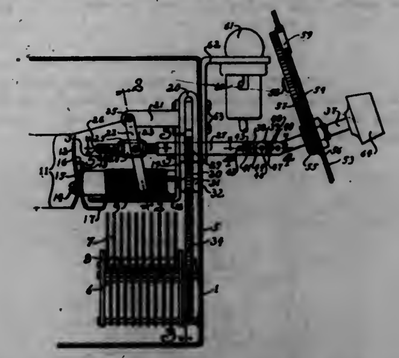
1,918,159. ELECTRODEPOSITION. LOUIS WEISBERG and WILLARD F. GREENWALD, New York, N. Y., assignors to Weisberg & Greenwald, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 19, 1932. Serial No. 587,606. 8 Claims. (Cl. 204—1.)

1. The method of preparing the surface of lead or a metal containing lead for coating by electrodeposition with another metal which comprises subjecting the surface as the anode to electrolysis in a neutral or alkaline electrolyte.

1,918,160. RADIO CONTROL APPARATUS. JAY E. WHITE, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 1, 1930. Serial No. 485,801. 13 Claims. (Cl. 250—14.)

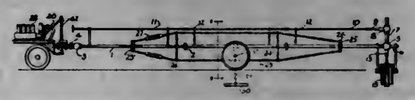
3. In combination, a casing having radio receiving apparatus therein including a pair of variable instruments, one being responsive to rotary movement and the other

to shifting movement, mechanism for selectively regulating said instruments, a panel located in spaced relation to said casing, a rotatable control member shiftably



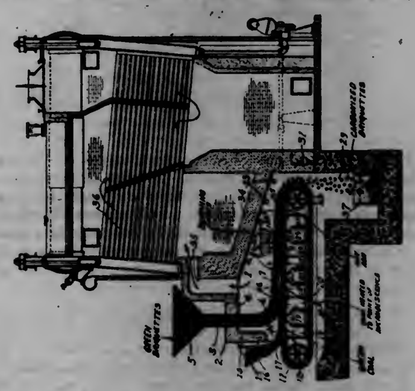
mounted on said panel in misalignment with said instruments, and a flexible element connecting said member and said regulating mechanism.

1,918,161. WILD WELL CONTROL. WALLACE W. WHITMAN, Houston, Tex. Filed Oct. 31, 1932. Serial No. 640,366. 7 Claims. (Cl. 166—1.)



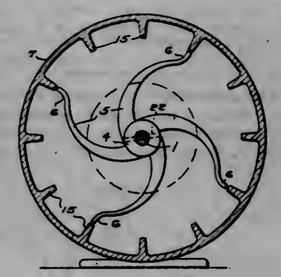
1. A device of the character described including; a mud discharge pipe, a portable support therefor, a pressure pump connected with the upstream end of said pipe, a cross shaped fitting at the downstream end of said pipe, an open upwardly directed pipe on said fitting, a valve therein, a downwardly directed pipe on said fitting, and means to adjust said pipe to position said nozzle to discharge mud into a well.

1,918,162. METHOD OF CARBONIZING BRIQUETTES. EDWIN L. WILLSON, Glenside, Pa., assignor to The Lehigh Coal and Navigation Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 1, 1928. Serial No. 316,596. 9 Claims. (Cl. 202—7.)



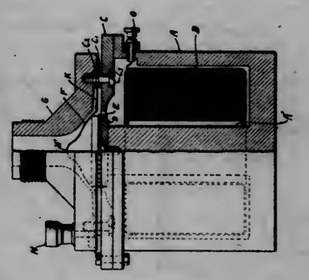
8. In the manufacture of fuel briquettes, the process which comprises the placing of a layer of green briquettes on a porous bed of relatively fine carbonaceous combustible material, burning the bed material under the layer of green briquettes, and passing currents of air upwardly through the bed and the layer of briquettes to support combustion of the bed material to heat the superposed briquettes to a temperature sufficient to effect carbonization thereof.

1,918,163. LIQUID CLUTCH. EMIL WOHLENHAUS, Welcome, Minn. Filed Apr. 1, 1930. Serial No. 440,817. 2 Claims. (Cl. 192—58.)



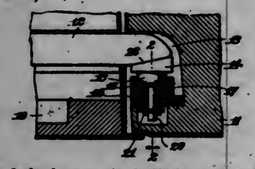
1. A transmission apparatus of the character described comprising a driving shaft, a driven shaft, an impeller carried by the driving shaft comprising a plurality of radial blades of curved formation with their convex sides disposed forwardly and with their terminal ends curved to cup formation, a drum carried by the driven shaft in which said impeller is disposed, and a plurality of radial blades disposed about the inner periphery of the drum and adapted to be engaged by liquid thrown outwardly by the impeller, the spacing of the blades of the impeller and the blades of the drum being such, with relation to each other, that the blades of the drum are simultaneously aligned with the blades of the impeller, and a plurality of the blades of the drum lie between a pair of blades of the impeller.

1,918,164. ACOUSTIC DEVICE. WILLIAM L. WOOLF and LIONEL B. CORNWELL, New York, N. Y. Filed Sept. 10, 1929. Serial No. 391,652. 9 Claims. (Cl. 179—115.5.)



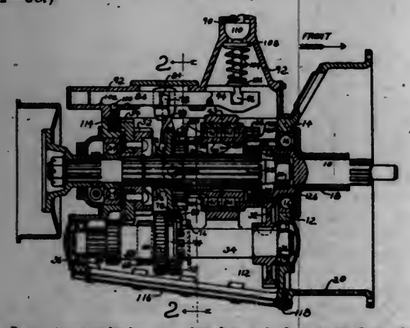
9. In a sound reproducer, a vibrating diaphragm comprising a domed central portion surrounded by a flat peripheral portion, and a cylindrical driving coil secured to said domed portion on the concave side thereof at points lying on a circle intermediate the center and the peripheral edge of the said domed portion.

1,918,165. KEEPER. DAVID WILSON WOOD, Brazil, Ind. Filed May 3, 1932. Serial No. 608,998. 6 Claims. (Cl. 292—340.)



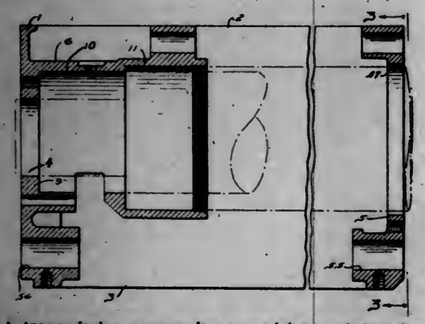
3. A latch bolt keeper including a rockable abutment having a beveled face to be engaged by a corresponding face of the latch bolt, and said abutment also having on its side opposite said beveled face a semi-globular member on which it rocks.

1,918,166. TRANSMISSION. HARRY T. WOOLSON, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a Corporation of Delaware. Filed Apr. 18, 1927. Serial No. 183,525. 2 Claims. (Cl. 74—58.)



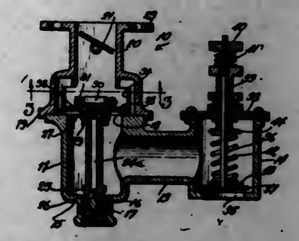
1. In a transmission mechanism of the class described comprising, a casing, an external driving gear in said casing, a sleeve mounted in said casing having an internal gear at one end therof in constant mesh with said driving gear and an external gear at the opposite end thereof, a slidable internal gear adapted to be meshed with said last named external gear, a bearing between said sleeve and said casing, means for directing lubricant within said sleeve, and means for conducting lubricant thru said sleeve to said bearing.

1,918,167. TRANSMISSION CASE CONSTRUCTION. HARRY T. WOOLSON, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed Sept. 10, 1930. Serial No. 480,989. 1 Claim. (Cl. 74—56.)



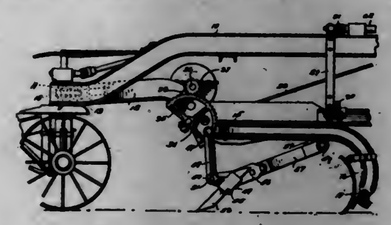
A transmission gear casing comprising an integral one piece body portion having a substantially open end and an opposite end wall, an inwardly extending flange having a cylindrical periphery at the open end of said body portion, and an internal tubular bearing support extending inwardly from said end wall formed integral with said body portion and having adjacent eccentric bores, each for receiving a bearing respectively, the bore adjacent the end wall being of smaller diameter than the other bore, both of said bores being smaller than the inner diameter of the periphery of said flange and said bores and periphery being arranged so as to be available for machining during a single setup by extending a reamer through said open end.

1,918,168. CARBURETOR. WILLIAM W. ZINNAMON, Tulsa, Okla. Filed Dec. 1, 1932. Serial No. 645,151. 6 Claims. (Cl. 48—180.)



1. In a natural gas carburetor, a body, an air inlet chamber, a conduit connecting the body and air chamber, a non-seating variably tensioned valve in the air chamber, floating valve mechanism in the body to control the flow of air and gas therethrough, including a tubular valve stem, a main valve, a valve on the stem, controlling flow of gas to the main valve and an auxiliary valve on the main valve, means forming unobstructed communication between the gas supply and bore of the tubular valve stem and said main valve having air passage openings therein normally closed by the auxiliary valve.

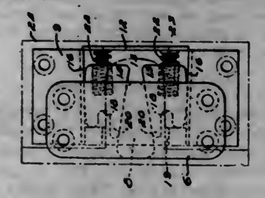
1,918,169. ROAD GRADER AND SCARIFIER. FRANKLIN E. ARNDT, Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company, Galion, Ohio, a Corporation of Ohio. Filed Nov. 15, 1928. Serial No. 319,632. 7 Claims. (Cl. 37—145.)



3. In a grading machine, the combination with a main frame, of draw bars connected to said main frame, a scraper mounted on said draw bars and operatively connected thereto for horizontal pivotal movement relative thereto, a scarifier carried by said draw bars in advance of the scraper, and thrust resisting members extending between the scarifier and the pivotal connection of said scraper to the draw bars.

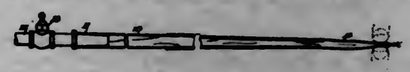
1,918,170. DOOR DOVETAIL. ALBERT P. BALL and WILLIAM E. HANN, Detroit, Mich.; said Hann assignor to said Ball. Filed Dec. 21, 1929. Serial No. 415,843. 22 Claims. (Cl. 16—85.)

1. A door dovetail member comprising, in combination, a housing having a recess therein, the front of said housing having an opening therein for receiving a door dovetail wedge member, rearwardly diverging top and bottom



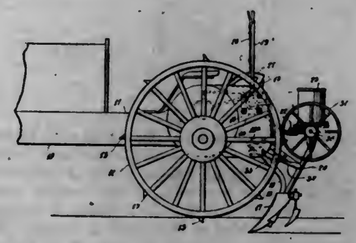
walls in said recess, a pair of blocks slidably mounted in said recess on said diverging walls, and resilient means urging said blocks towards the front of said housing.

1,918,171. METHOD OF HEATING AND STRETCHING TUBES OVER SHAFTS. HAROLD G. BARRETT, Wilmette, Ill., assignor to Pyratone Products Corporation, Chicago, Ill., a Corporation of Illinois. Filed Mar. 5, 1929. Serial No. 344,442. 15 Claims. (Cl. 18—51.)



1. A method of applying a thermoplastic casing to a hollow shaft and upon which shaft the casing is to remain, which consists in telescoping one end of the shaft into one end of the casing, then discharging a heating medium through the shaft and into the portion of the casing beyond the end of the shaft to heat the casing to render the latter pliable, and then drawing the casing while heated, upon the shaft.

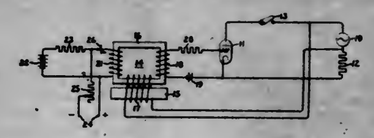
1,918,172. SEEDER ATTACHMENT FOR TRACTORS. ERIE E. BARRON and SPENCER R. BARRON, Lamesa, Tex. Filed May 5, 1931. Serial No. 535,134. 4 Claims. (Cl. 111—67.)



1. In combination with an implement having ground wheels, and a rock shaft, means to operate and secure the rock shaft in different positions, a frame pivoted on said rock shaft, a planter mechanism carried by the frame, means to actuate the planter mechanism having a shaft, a driving wheel on the second mentioned shaft in contact with the periphery of one of the first mentioned wheels, and means whereby actuation of the rock shaft will move said driving wheel out of driving relation.

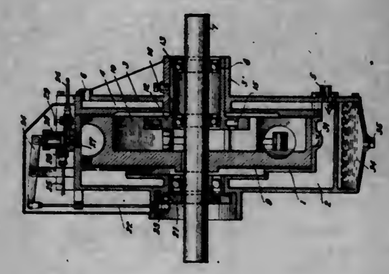
1,918,173. PHASE SHIFTING CIRCUITS. BURNICE D. BEDFORD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 23, 1931. Serial No. 564,623. 21 Claims. (Cl. 172—238.)

1. In combination, a source of alternating potential, a self saturating transformer energized therefrom and provided with a secondary winding in which is induced an alternating potential of peaked wave form, and an independent source of magnetomotive force for said transformer for determining the point in the cycle of alternating potential at which the resultant magnetomotive force passes through zero and thus the phase of said secondary potential.



20. The method of controlling the conductivity of a grid controlled electric valve excited from a saturable transformer connected to a source of alternating potential which comprises varying the saturation of said transformer to vary the point in the cycle of alternating potential at which said valve is rendered conductive.

1,918,174. ROTARY GAS MOTOR. FRANS L. BERGGREN, Spokane, Wash. Filed July 26, 1930. Serial No. 470,971. 2 Claims. (Cl. 123—18.)

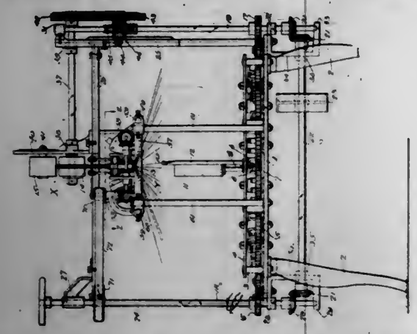


2. In a motor of the character described, a casing having a rotor chamber formed therein, a shaft journaled centrally of the casing, a rotor fixed to the shaft and working in the chamber and having tangentially disposed cylinders, a piston in each cylinder, a pump on the casing and having inlets common thereto and to the chamber, a valve closing one communication to the pump, a fuel supply lead connected with the communication of the pump with the chamber, an air supply lead connected to the communication of the pump with the chamber and having delivery therethrough on advance of the fuel delivery from said pump, cams on the shaft and casing respectively, connections between the cam on the shaft and said pump for operating the same, connections between the cam on the casing and the piston for operating the latter, means for firing the charge of air and gas delivered to each cylinder when under compression, means for adjustably mounting the cam on the casing, and means for enveloping the rotor chamber with a cooling medium.

1,918,175. BEAT-UP MECHANISM FOR BRAIDING MACHINES. SIDNEY B. BLAISDELL, Wyncote, Pa., assignor to Fidelity Machine Company, Wilmington, Del., a Corporation of Delaware. Filed June 18, 1930. Serial No. 462,016. 4 Claims. (Cl. 96—17.)

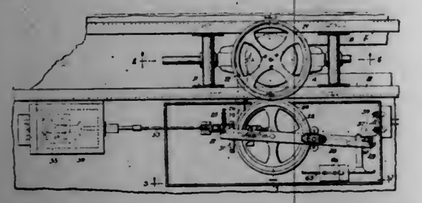
1. The combination of a braiding machine utilizing a plurality of braiding threads, a beater co-operating with the braiding mechanism and disposed above the braiding threads to compact the threads at the braiding point of the machine, said beater comprising a series of elements disposed around the braiding point above said braiding threads and adapted to enter the braided threads from

above and at points removed from said braiding point, and means for advancing the beater elements successively toward the said braiding point, and for withdrawing



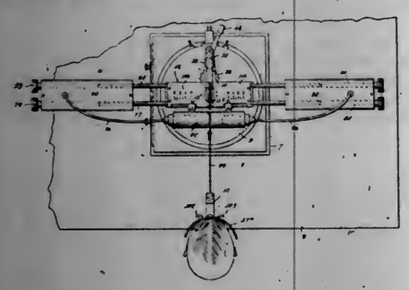
said elements from said threads adjacent the braiding point of the machine to a return position above said threads.

1,918,176. SPEED REGULATOR FOR REVOLVING DOORS. ROBERT L. BLANCHARD, New York, N. Y., assignor to Van Kannel Revolving Door Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 15, 1930. Serial No. 488,976. 22 Claims. (Cl. 20—18.)



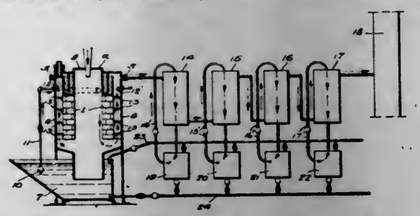
1. The combination of a revolving door and means actuated by a force that is independent of the force applied to the door for revolving the same and rendered active by rotation of said door at a predetermined rate of speed for retarding the speed of rotation of said door.

1,918,177. STEREOOCULATOR. EDWARD O. BOQUIST and WALTER E. F. STRAUBEL, West New York, N. J. Filed Dec. 16, 1931. Serial No. 581,459. 6 Claims. (Cl. 88—20.)



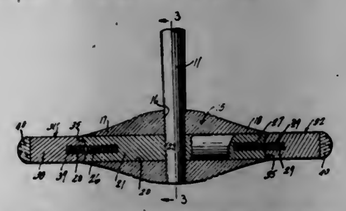
1. A stereo-oculator comprising a cabinet, horizontal bars disposed crosswise above the cabinet, casings located at the outer ends of the bars to lie laterally projected from opposite sides of the cabinet, rails above the bars, a carriage movable on the rails between the casings, card holders on the carriage, a partition between the holders and fixed to the carriage, means accessible at the outer ends of the casings to permit vertical adjustment of the holders independent of each other, and power means in the cabinet and operated with the carriage to oscillate the same upon the rails.

1,918,178. PROCESS OF TREATING SULPHUR-BEARING ORES. DANA W. BOWERS, Philadelphia, Pa., assignor to The Enterprise Manufacturing Company, of Pennsylvania, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 14, 1932. Serial No. 586,648. 15 Claims. (Cl. 23—146.)



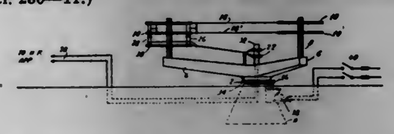
1. The process of treating sulphur-bearing ores which comprises subjecting finely divided sulphur-bearing ore particles to flash-roasting, quenching and at least partially gas-scrubbing the hot flash-roasted products with an aqueous solution, and recirculating said aqueous solution through the system to quench and at least partially gas-scrub additional amounts of flash-roasted products therewith.

1,918,179. GAME PLAYING CLUB. CHARLES H. BUCKLER, Camden, N. J. Filed June 3, 1931. Serial No. 541,900. 5 Claims. (Cl. 273—67.)



1. In a cue club the combination of an elongated shaft, a head including an elongated wooden body having a passageway longitudinally therethrough, a weighted bar snugly fitting in said passageway, said wooden body and bar diametrically across said head having a passageway into which the free end of the shaft is snugly fitted to mount the head in a T-shaped relation at an end of the shaft, and cue points attached at the ends of the head to the weighted bar.

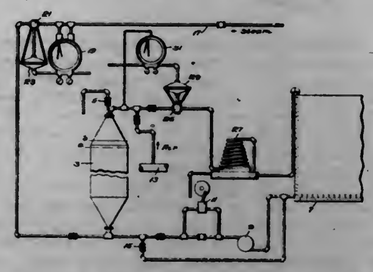
1,918,180. ROTATABLE ANTENNA SYSTEM. PHILIP STAATS CARTER, Port Jefferson, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Aug. 25, 1930. Serial No. 477,544. 8 Claims. (Cl. 250—11.)



1. In combination, a plurality of horizontal antenna conductors which are long relative to the working wave length, supports for said conductors at the ends thereof, a

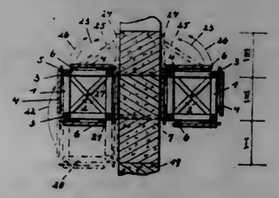
rotatable mounting fixedly attached to said supports, a shaft extending vertically through said rotatable mounting, motor mechanism for moving said shaft and mounting, remote control means for controlling the rotation of said shaft and mounting, a pointer and dial arrangement connected to said remote control means for indicating the position of said antenna conductors, slip rings mounton said shaft and electrically connected to said antenna conductors, high frequency apparatus, and a transmission line extending between said high frequency apparatus and said slip rings.

1,918,181. DIGESTION OF FIBROUS MATERIAL. HARVEY G. CRAM, Bucksport, Maine, assignor to Maine Seaboard Paper Company, Bucksport, Maine, a Corporation of Maine. Filed Dec. 31, 1932. Serial No. 649,685. 6 Claims. (Cl. 92—7.)



1. In the digestion of fibrous material the method which comprises completely filling the digester containing the fibrous charge with liquor under a pressure at least approximating the desired cooking pressure and introducing steam thereto to effect the cook while substantially maintaining such pressure.

1,918,182. TILTABLE CASING FOR CONCRETE CONSTRUCTION. FRANZ EILER, Dresden, Germany. Filed Apr. 19, 1932, Serial No. 606,276, and in Germany Mar. 12, 1932. 4 Claims. (Cl. 25—131.)



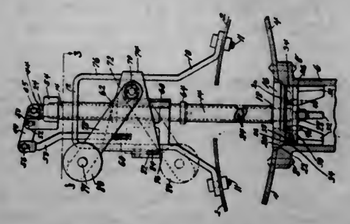
1. A tiltable casing for concrete constructions, comprising in combination a common regular polygonal frame, pivot pins forming pivot axles on each corner of said frame, casing panels oscillatably mounted on said pivot pins, and a stay adapted to hold said panels in oscillated positions.

1,918,183. LATCH NEEDLE FOR PICKING UP LOOPS. CURT FIEDLER, Chemnitz, Germany. Filed Aug. 17, 1932, Serial No. 629,166, and in Germany Sept. 2, 1931. 2 Claims. (Cl. 66—117.)



1. A latch needle for picking up loops, comprising in combination a needle stem having a channel closed at its under side, a latch hingedly mounted in said channel near the end of said stem, and a spring in said channel fixed at its rear end to said stem having a bent-up end extending around said latch near its pivot point adapted, when said latch is in open position, to lie flat on the bottom of said channel and, when said latch is in closed position, to bear against the bottom of said channel near its two ends and to flex the portion intermediate its point of fixation and its front end.

1,918,184. VALVE AND OPERATING MEANS THEREFOR. EDWARD M. HARTMAN, Milton, Pa., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 12, 1932. Serial No. 592,485. 18 Claims. (Cl. 137—21.)



1. In combination with a car tank, a multipart valve for controlling flow through a discharge outlet, and means for actuating said valve comprising a tubular member connected to one of the valve parts, a rod connected to the other valve part, means connecting said tubular member and rod, and means for shifting said tubular member and rod to shift the multi-part valve as a unit, said means having provision for actuating one of said valve parts relative to the other during a portion of its movement.

1,918,185. SWIMMING APPLIANCE WITH FLAP DRIVE. HEINRICH WILHELM HOFIUS, Dahmeshoved near Dahme, Germany. Filed Apr. 2, 1932, Serial No. 602,867, and in Germany Apr. 8, 1931. 1 Claim. (Cl. 9—18.)

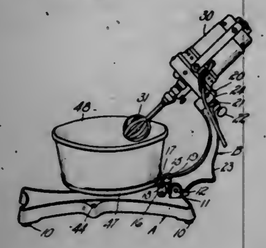


A swimming appliance, comprising in combination a swimming frame, a float at each end of said frame, a foot board rigidly mounted on said frame, a driving flap guided in said frame between said foot board and the float at the foot end of said frame, pull rods hingedly connected at one end one to each side of said driving flap, levers hingedly connected to said frame and to said pull rods, and handles one on each of said levers adapted to be gripped by the swimmer and to impart a reciprocating movement to said rods through the intermediary of said levers, and a back and head rest shiftable in longitudinal direction on said frame adapted to perform a reciprocating movement on said frame during the bending and stretching of the legs of the swimmer, whose feet rest against said foot board, and during the rowing movement exerted on said pull rods by the swimmer with his hands.

1,918,186. SUPPORT FOR CULINARY APPLIANCES. FRED W. JUENGST and OSCAR M. ANDERSON, New Britain, Conn., assignors to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Mar. 18, 1933. Serial No. 661,456. 10 Claims. (Cl. 248—20.)

1. A support for kitchen appliances including a base, a standard pivoted at its lower end adjacent one end of

the base and extending upwardly and forwardly over the base, means on the upper end of said standard for interchangeably securing thereto in a quick detachable manner any one of a plurality of kitchen appliances, a lug ex-

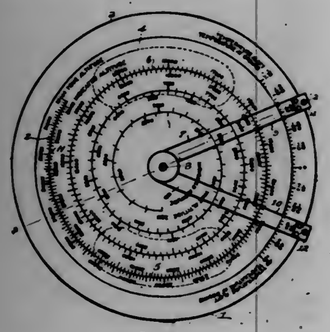


tending upwardly from said base forwardly of the pivot for said standard, and a screw carried by said standard and adapted to engage in said lug for securing said standard in operative position.

1,918,187. METHOD OF MAKING BEARING MATERIAL. JOSEF KIENER, Stuttgart, Germany, assignor to Aktiobolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Filed May 12, 1932, Serial No. 610,999, and in Germany May 15, 1931. 6 Claims. (Cl. 308—242.)

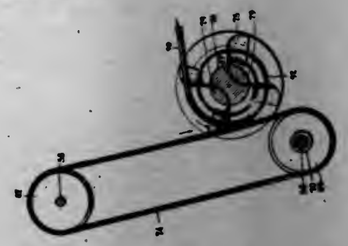
1. The method of producing a material adapted for use in the construction of bearings and other parts of machinery comprising embedding in a basic material fibres impregnated with a readily soluble inert substance permitting the basic material to solidify, subsequently removing part of the soluble substance by dissolution and replacing it by a lubricant.

1,918,188. ALTIMETER TEMPERATURE CORRECTION COMPUTER. GEORGE P. LUCKEY, Lancaster, Pa. Filed Jan. 14, 1929. Serial No. 332,509. 7 Claims. (Cl. 235—84.)



1. A device of the class described comprising a member bearing a scale of altitudes arranged in a spiral curve and graduated logarithmically with respect to degrees around the point of origin of the curve, a second member pivoted to the first member concentrically with respect to the point of origin of the spiral curve and bearing an arcuate scale of temperatures concentric to the pivot and calibrated in degrees proportional to the mean temperature of the air in flight, said members being relatively movable for causing radial registration of selected points on the respective altitude and temperature scales, and radial index means for facilitating the registration of the selected points.

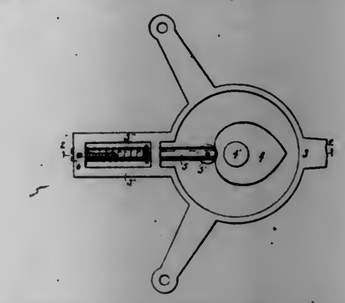
1,918,189. MEANS AND METHOD OF COVERING SPRINGS AND TH LIKE. KENNETH W. MATHEW, Angelica, and MELVILLE E. HOLLOWAY, Hamburg, N. Y., assignors to F. R. Atkinson Spring Co., Hamburg, N. Y. Filed Oct. 1, 1930. Serial No. 485,815. 15 Claims. (Cl. 29—88.2.)



3. Apparatus for applying a tubular cover to a coiled spring, comprising a head adapted to engage inner surfaces of the spring, means for engaging outer surfaces of the spring, and means for effecting relative tangential movements between said spring and said head and engaging means, whereby the tubular cover member may be gripped and held by said head and engaging means for being threaded over said spring.

11. A method of applying a tubular cover to a spring formed of a coiled wire, comprising inserting one end of the spring wire into one end of the cover, gripping the portion of the cover disposed about the spring wire and with continuous movement sliding the cover over the spring wire, and substantially simultaneously gripping and carrying other portions of the cover which pass onto the spring wire over said spring.

1,918,190. SWIVEL CHAIR. JOHN H. MILLER, Plymouth, and CLIFFORD E. FISH, Argos, Ind. Filed Mar. 14, 1932. Serial No. 598,686. 8 Claims. (Cl. 155—95.)

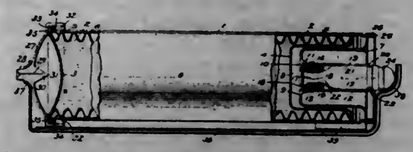


3. In a swivel chair designed to be adjustable to various fronting positions and to return to a selected position when vacated, a hollow pedestal with lugs thereon, an intermediate supporting body with serrations thereon and adjustably fitted to the pedestal by engaging the serrations with the lugs, a cam rigidly connected to the intermediate body and with its actuating surface radial to the axis of the body, a seat supporting spider journalled to the intermediate body, and a cam wheel yieldingly mounted upon the spider to yield radially from the axis of the body and in operative contact with actuating cam surface.

1,918,191. FIRE EXTINGUISHER. CHARLES L. PAULUS and ROBERT KAUCH, Dayton, Ohio. Filed Apr. 11, 1931. Serial No. 529,484. 4 Claims. (Cl. 169—31.)

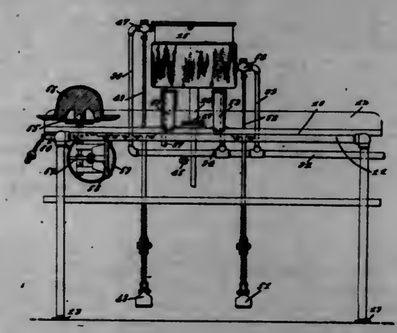
3. A fire extinguisher including a casing, a sealed cartridge containing gas under pressure to be released

and directed into said casing, and a cartridge-receiver on said casing and in communication therewith, said cartridge-receiver having a cartridge puncturing device at



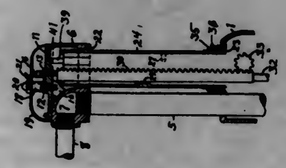
its inner end and spring fingers at its outer end for yieldably engaging and supporting the cartridge in an exposed position to be thrust against the said cartridge-puncturing device by direct impact of the hand.

1,918,192. HAT BLOCKING AND REBUILDING MACHINE. WILLIAM O. PEEBLES, Statesboro, Ga. Filed July 1, 1929, Serial No. 375,222. Renewed Dec. 5, 1932. 6 Claims. (Cl. 223—28.)



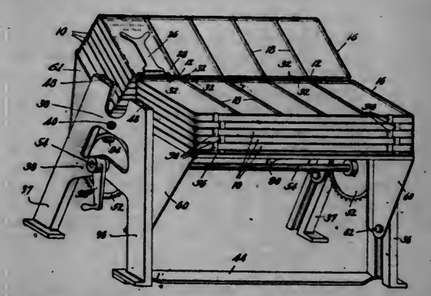
1. In a hat blocking machine, a casing including an upper steam chamber having steam escape openings therein, a fabric cover for the openings, a lower steam chamber also having steam escape openings therein, a fabric cover for the last mentioned openings, an intermediate chamber, separate manually operated means to control a supply of steam to the upper and lower chambers, and means to provide for a continuous supply of heat to the intermediate chamber.

1,918,193. DISPENSING PUMP. BYRON J. PEPPER, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Mar. 17, 1933. Serial No. 661,297. 6 Claims. (Cl. 221—103.)



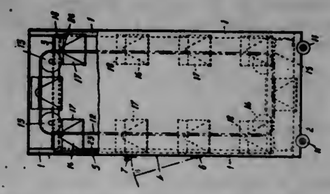
1. In a liquid dispenser, a standard having an opening in its top, a pumping mechanism connected with the standard, and having an operating rack bar extending through said opening and provided with actuating means therefor, a discharge pipe for said pumping mechanism projecting upwardly from said standard, a head supported at a point spaced above said standard and having an opening in its bottom alined with the opening in said standard, and having a passageway communicating with said pipe, a spout extending from said head communicating with said pipe through said passageway, a tubular engaging member mounted to have axial and rotative movement in the openings in said standard and head provided at its top with upwardly projecting spaced lugs and also spaced lugs in its interior, said member enclosing said rack bar, a series of adjustable stops supported in said head one of which is alined with said rack bar and the other stops being located so as to have alinement respectively with the upwardly extending lugs severally according to the angular adjustment of said engaging member, said vertically projecting lugs and the interior lugs being positioned relative to each other so that when either top lug is in stop engaging position a corresponding interior lug is alined with said rack bar, and when neither top lug is in its engaging position both interior lugs are out of alinement with said rack bar, and a sealing means for said stops.

1,918,194. FILING REGISTER. CHARLES W. POTTER, Waltham, Mass., assignor to Atlantic Register Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 8, 1929. Serial No. 353,360. 21 Claims. (Cl. 45—2.)



1. A filing register comprising a frame, a pair of supports movable synchronously in opposite directions in said frame, a plurality of filing leaves hinged together on one side in a series, the two end leaves of said series being detachably fastened one to each of said supports and means for imparting said movement to said supports.

1,918,195. FILING CABINET. CHARLES KELMAN ROBERTSON, Edinburgh, Scotland. Filed Nov. 18, 1930, Serial No. 496,406, and in Great Britain May 24, 1930. 8 Claims. (Cl. 45—3.)



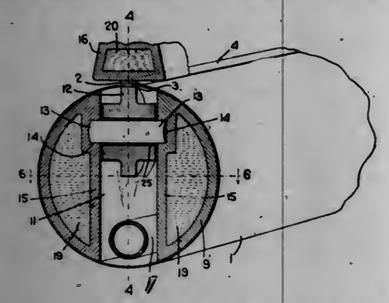
1. A filing cabinet comprising a skeleton rectangular framework, an endless conveyor mounted within said framework and adapted to travel over part of its length in a vertical direction parallel to the front of the cabinet, a plurality of card carriers, means connecting said card carriers to said conveyor at intervals therealong and permitting said carriers to remain always in an upright position and mechanism for releasably locking said conveyor in desired position, said mechanism comprising a friction brake on the conveyor, and means for actuating and releasing the brake.

1,918,196. METHOD OF SEALING A CONTAINER. HARRY SEBELL, Boston, Mass., assignor of one-half to Arthur H. Parker, Lexington, Mass. Filed Oct. 21, 1929. Serial No. 401,092. 4 Claims. (Cl. 226—87.)



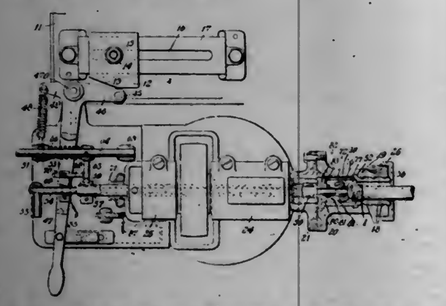
1. The method of sealing a container which consists in placing a cover on the container with a gasket between the cover and the edge of the container and then subjecting the annular portion of the cover overlying said edge and gasket to a rolling sealing pressure which is yieldingly applied progressively around said annular portion and continuously and at all points in the same direction, whereby said portion of the cover is caused to conform to the edge of the container.

1,918,197. APPARATUS FOR MAKING CAN BODIES. HARRY SEBELL, Boston, Mass., assignor of one-half to Arthur H. Parker, Lexington, Mass. Filed May 21, 1930. Serial No. 454,445. 10 Claims. (Cl. 113—59.)



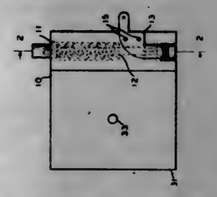
1. A device for making can bodies having a lock seam comprising a supporting member of a size to fit the interior of the can body being formed, means to heat the portion of said member with which the seam contacts, thereby to melt the solder material which has been previously applied to the seam, and means operative at the same time to subject the remaining portion of said member to a cooling action.

1,918,198. GAUGING MECHANISM FOR INTERNAL GRINDERS. HILDING VALDEMAR TÖRNEBOHM, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed Oct. 17, 1931. Serial No. 569,385. 12 Claims. (Cl. 51—165.)



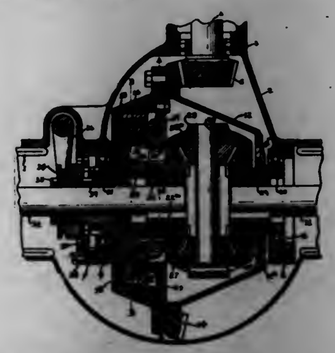
1. In a device of the character described, the combination with a bore forming machine having a work holder and a working tool and having relative reciprocatory movement between the work holder and the working tool and means for imparting the reciprocatory movement, of a gauge constructed and adapted, when in one angular position to freely enter the unfinished bore of the work piece and when in another angular position to traverse the finished bore.

1,918,199. ELECTRIC SWITCH. HARLEY M. WARD, Scarsdale, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Dec. 17, 1931. Serial No. 581,731. 5 Claims. (Cl. 200—4.)



1. The combination in a switch mechanism of an insulating base, a primary switch embodying a pair of posts mounted upon said base, a connector bar for completing an electrical circuit between said posts, with an element of insulating material secured to one of said posts, and a secondary switch mounted upon said element of insulating material, said secondary switch embodying an actuating member disposed in position to be engaged by the connector bar to actuate said secondary switch when the connector bar is in circuit closing position.

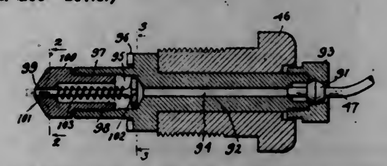
1,918,200. DUAL-RATIO MECHANISM FOR AUTOMOBILES. CHARLES M. WERT, Cleveland, Ohio, assignor of one-third to Frank F. Petznick, Cleveland Heights, Ohio, and one-third to Clarence H. Dray, Lakewood, Ohio. Filed Feb. 6, 1933. Serial No. 655,457. 7 Claims. (Cl. 74—99.)



1. In a speed-modifying mechanism for an automobile, the combination of a differential mechanism having drive connection with the axles of the automobile wheels, a drive shaft, speed-modifying gears arranged operatively between said drive shaft and differential mechanism, said gears including an internal-external idler gear, and internal and external gears meshing therewith and adapted to effect a modification in speed transmitted to the axles of the automobile wheels, a single supporting member having bearing portions arranged eccentrically and concentrically with respect to the axis of the differential mechanism, for said internal-external idler and external gears, respectively, said external gear being connected with the differential mechanism for operation thereof, said internal gear being connected with the drive shaft, and means

whereby said speed-modifying mechanism may be rendered active or inactive so that the automobile wheels may be operated at either normal or modified speed.

1,918,201. FUEL INJECTOR NOZZLE. ROLLIN H. WHITE, Shaker Heights, Ohio. Filed June 18, 1928, Serial No. 286,100. Renewed June 11, 1932. 5 Claims. (Cl. 299—107.6.)



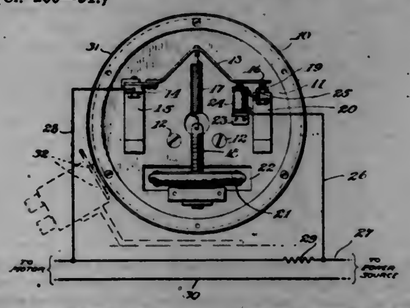
1. In combination, a fuel nozzle having a connection for the reception of liquid fuel under pressure, said nozzle having a constricted exit opening, a stem having a close sliding fit in said opening, a piston carried by the stem within the nozzle in position to be acted upon by the pressure pulsations in the fuel line to advance said stem in said opening, said stem having therein a small relief passage located and arranged to bridge said opening in the advanced position of the stem only, and means for retracting said stem.

1,918,202. WOOD DRILL WITH CUTTER TRANSVERSELY ADJUSTABLE IN THE DRILL SHANK. CARL WIRHAGEN, Solingen-Wald, Germany. Filed May 20, 1932, Serial No. 612,547, and in Germany May 27, 1931. 1 Claim. (Cl. 145—127.)



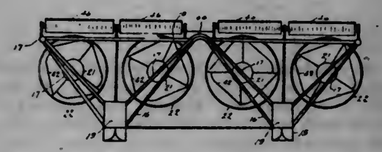
A wood drill, comprising in combination a drill shank having a screw threaded transverse bore, a screw having a flattened portion shiftable in said bore, a blade formed on the end of said screw adapted to be shifted transversely relative to said shank by the turning of said screw, and a set screw near the end of said shank adapted to bear against the flattened portion of said screw to automatically set and fix said blade in the proper cutting position.

1,918,203. SPEED GOVERNOR FOR ALTERNATING CURRENT MOTORS. RALEIGH J. WISE, Plainfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Oct. 23, 1929. Serial No. 401,918. 2 Claims. (Cl. 200—91.)



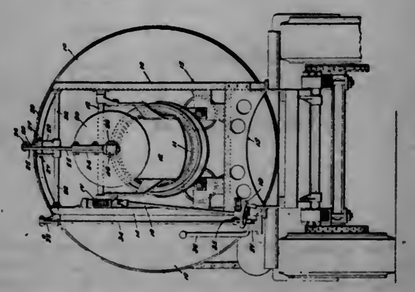
1. A speed governor for alternating current motors comprising a casing adapted to be secured to the motor shaft, a pair of contacts carried by said casing, one contact being rigidly secured and the other movably secured thereto, a spring carried by the casing and operating to normally hold the movable contact in engagement with the fixed contact with a predetermined pressure against the action of centrifugal force, an electromagnet secured to the casing and arranged to assist the spring in holding the movable contact, said magnet being of the alternating current type whereby its magnetic field is weakened at each zero point in the alternating current waves, said magnet and contacts being series connected in circuit with an alternating current supply and the motor circuit.

1,918,204. AIRCRAFT. HERBERT JAMES ALDERSON, Toronto, Ontario, Canada. Filed July 20, 1932. Serial No. 623,662. 18 Claims. (Cl. 244—14.)



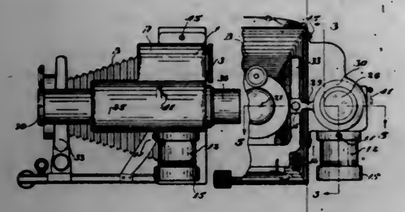
1. In an aircraft, a fuselage, a metal frame extending from said fuselage, a plurality of turbines pivotally mounted in said frame, each of said turbines having a pivoted casing and an inner rotatable casing, and a turbine wheel within said rotatable casing and forming a rigid part thereof and having passages leading to and fro suitably connected to fuel inlet and exhaust passages forming a part of the metal frame, and propellers rigidly secured in the inner casing facing the exposed front and rear of said outer casing, and means connected to the outer casings of said turbines and controlling the movements thereof.

1,918,205. REAR CLOSURE FOR TRUCK MIXERS. CHARLES F. BALL and ARTHUR E. MILLER, Milwaukee, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 17, 1930. Serial No. 453,281. 7 Claims. (Cl. 83—73.)



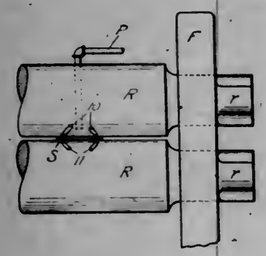
1. In a concrete mixer and the like, a mixing receptacle having a discharge opening; a discharge chute mounted in close proximity to said opening for entrance therein and withdrawal therefrom; a closure member for said opening; means for mounting said closure for simultaneous outward and upward movement from said opening with the closure member maintained substantially parallel to the plane of the opening, whereby interference between the closure member and the discharge chute is avoided; and means for moving said closure mounting means to bring the closure member into and out of said opening.

1,918,206. CAMERA FOCUSING MECHANISM. CARL R. ERMISCH, St. Paul, Minn., assignor of one-half to Melvin J. Maas, St. Paul, Minn. Filed Jan. 23, 1932. Serial No. 588,334. 5 Claims. (Cl. 95—44.)



1. In combination with a camera having an adjustable focusing lens, a focusing device having an illuminating means, a supplementary focusing lens mounted in the path of light rays from said illuminating means, and means adapted to connect said focusing device to a camera to move said supplemental focusing lens in conjunction with said camera lens to focus said light rays upon an object to be photographed at a predetermined distance from said illuminating means, and to co-ordinately focus said camera lens on said object.

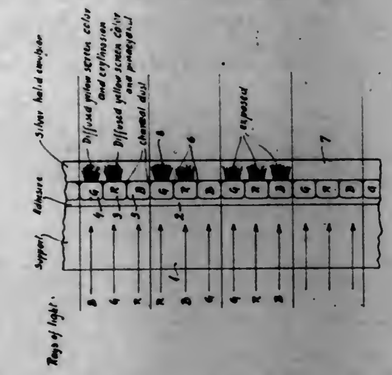
1,918,207. METHOD OF AND APPARATUS FOR REMOVING LUBRICANT FROM COLD ROLLED STRIP METAL. JOHN J. GROBSTEIN and BAYARD M. CRUM, New Britain, Conn., assignors to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Dec. 23, 1932. Serial No. 648,614. 9 Claims. (Cl. 80—1.)



1. The process of removing lubricant from the surfaces of a metal strip which consists in passing the strip in lubricated condition between rolls and directing streams of fluid under pressure against the opposite surfaces of the strip and in a direction outwardly towards the edges of the strip.

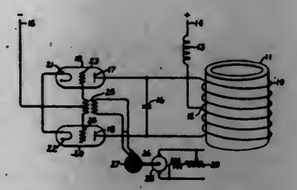
1,918,208. METHOD OF MAKING FILMS FOR NATURAL COLOR RECEPTION. WERNER ROBERT BUSCH LARSEN, Copenhagen, Denmark. Filed Nov. 10, 1928, Serial No. 318,598, and in Denmark July 28, 1928. 1 Claim. (Cl. 95—2.)

A method of making film for natural color reception, comprising the steps of applying to one face of a support, having transparent adhesive as backing, partly decolorized color filter particles, which besides their filter colors contain special sensitizing mediums that conform to the filter colors of the separate particles, and over this



layer of color particles applying a silver halid emulsion, and after exposure, applying a subsequent chemical treatment to obtain recoloring, all for the purpose described.

1,918,209. HEATING SYSTEM. HANS LAUB, Wilmersdorf, Germany. Filed Nov. 13, 1931, Serial No. 574,861, and in Germany Nov. 12, 1930. 7 Claims. (Cl. 219—47.)



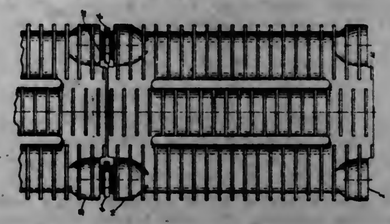
1. An electric heating system including an inductor coil, a pair of arc rectifiers inductively coupled together by said inductor coil, means for successively rendering said rectifiers alternately conducting and nonconducting, and a condenser connected between the circuits of said rectifiers for interrupting the current flowing in one rectifier substantially immediately after the other rectifier is made conductive.

1,918,210. TRAVERSING MEANS FOR WINDING MACHINES. JOHN O. MCKEAN, Westfield, Mass., assignor to Foster Machine Company, Westfield, Mass., a Corporation of Massachusetts. Filed Jan. 27, 1933. Serial No. 653,775. 20 Claims. (Cl. 242—43.)



2. A yarn traversing means for winding machines comprising a rotatable element having a plurality of yarn engaging grooves arranged in non-intersecting oppositely disposed helices, and means at the leading end of each groove for controlling the passage of the yarn thereto.

1,918,211. RADIATOR WITH INTEGRAL FINS. CHARLES A. OLSON, Geneva, Ill., assignor to Crane Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 9, 1931. Serial No. 567,900. 2 Claims. (Cl. 257—150.)

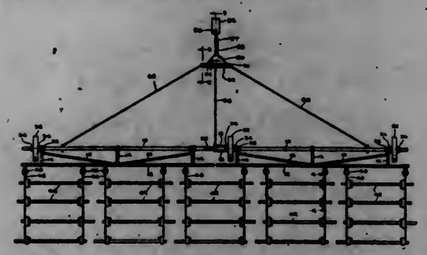


2. A radiator section comprising a pair of separate spaced headers, a plurality of integral independent tubes of elliptical cross section, the minor axis of said elliptical sections extending from the front to the back of the radiator with the major axis thereof at right angles to said minor axis, said tubes being integrally connected at their ends to said headers so as to provide communication between said headers, a plurality of solid radiating fins integral with and disposed transversely to said tubes, said radiating fins being substantially square in their transverse sections, the length of such square being substantially equal to the length of the said major axis, connecting means at the end of each header providing for substantially continuous and unbroken heat transmitting surface when assembled with a radiator section similarly provided.

1,918,212. METHOD FOR MAKING HARD METAL COMPOSITIONS. ROBERT PALMER, Niskayuna, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed Oct. 8, 1930, Serial No. 487,871. Divided and this application filed Oct. 14, 1931. Serial No. 568,878. 6 Claims. (Cl. 219—4.)

3. The method of making a strong pressure-resisting metal structure which comprises mixing pulverized tungsten carbide with an organic binder material, applying pressure to the mixture to thereby shape it, heating the shaped mixture to an elevated temperature to expel said binder and impregnating the carbide with a relatively soft metal which is a good electrical conductor.

1,918,213. DRAWBAR DEVICE FOR HARROWS. LOUIS A. PAZANDAK, Minneapolis, Minn., assignor to James L. Tucker, Minneapolis, Minn. Filed Jan. 7, 1931. Serial No. 507,142. 6 Claims. (Cl. 55—84.)



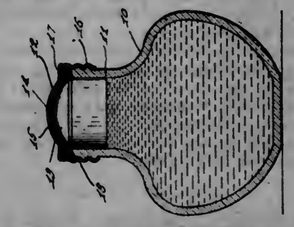
1. A draw-bar device for harrows comprising a plurality of transverse main bar members connected together in alinement for swinging movement relatively to each other both vertically and horizontally, means for attaching harrow sections at the rear of said members, a transverse hitch bar, rods connecting said hitch bar with the front of said members, a chain having its ends attached to said hitch bar, and an open center member through which said chain passes.

1,918,214. BOX MAKING MACHINE. LYNN C. ROOD, JOHN F. LANE, and JOHN J. FROST, St. Paul, Minn., assignors to Charles Weinhagen & Company, St. Paul, Minn., a Corporation of Minnesota. Filed Oct. 31, 1931. Serial No. 572,364. 6 Claims. (Cl. 93—55.)



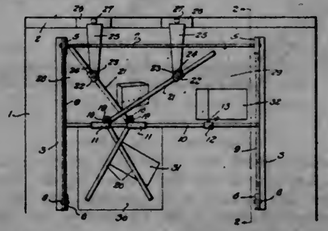
1. A box-making machine, comprising, in combination, a traveling conveyor, box wall forming dies carried by said conveyor and adapted to receive a box wall member therein, cam means mounted to operate said dies to perform a forming operation on a box wall contained therein, a wall flanging device co-operatively associated with said dies to form a flange on a box wall formed in said dies, adhesive spreading mechanism mounted to spread a layer of adhesive on a flanged box wall to adapt said flange to adhesively receive a top, and presser means adapted to engage a top positioned on said flange and exert pressure thereon.

1,918,215. LIQUID CONTAINER. PAUL RUNNELS, Indianapolis, Ind., assignor, by mesne assignments, to Industrial Solvents, Inc., Indianapolis, Ind., a Corporation of Indiana. Filed Apr. 17, 1930. Serial No. 444,956. 5 Claims. (Cl. 15—134.)



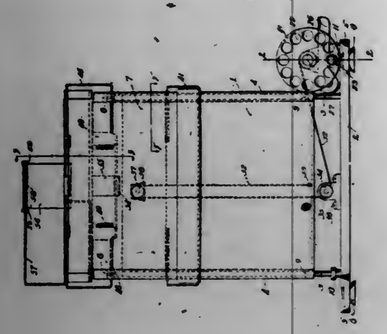
1. A container for liquids, comprising a hollow body having an opening at its top, said body being provided adjacent said opening with screw-threads, an exposed absorbent pad covering said opening, and a collar having screw threads adapted to engage those of said body, said collar being provided with an inwardly projecting annular flange adapted to overlie the edges of said pad to retain it in position.

1,918,216. DRAFTING APPARATUS. RUDOLPH H. SACHTLEBER, East Orange, N. J. Filed July 14, 1930, Serial No. 467,912. Renewed Dec. 10, 1932. 10 Claims. (Cl. 33—77.)



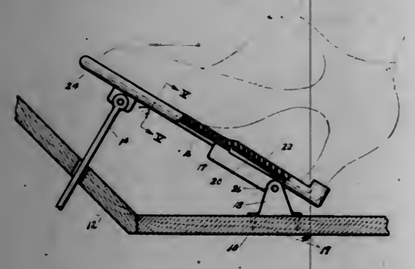
1. Apparatus for plotting a perspective, comprising upper arms crossed adjacent their lower ends, spaced brackets mounted for individual adjustment toward and away from one another, one of said arms being mounted in each bracket for pivotal and longitudinal sliding movement, and lower arms crossed intermediate their ends and having their upper ends pivotally connected with the lower ends of the upper arms.

1,918,217. COPYHOLDER. FREDERICK W. STORCK, Somerville, Mass., assignor to Standard Mailing Machines Company, Everett, Mass., a Corporation of Massachusetts. Filed Oct. 29, 1929. Serial No. 403,294. 5 Claims. (Cl. 120—29.)



1. In a device of the character specified the combination of a supporting frame, a work plate movable vertically on said frame, a rotatably mounted drum, a flexible means connecting said drum and said work plate arranged to elevate said work plate upon the rotation of said drum, means connected to said drum for manually rotating the same in either direction, and a yieldable stop means operatively connected with said drum and adapted to check the rotation of said drum while under the gravital influence of said work plate upon said flexible means yet capable of yielding readily to rotative force in either direction applied by the operator upon said means for manually rotating said drum.

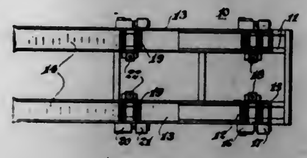
1,918,218. ACCELERATOR PEDAL. FRANK C. SWEENY, Toledo, Ohio, assignor to The Willys Overland Co., Toledo, Ohio, a Corporation of Ohio. Filed Nov. 27, 1929. Serial No. 410,114. 6 Claims. (Cl. 74—81.)



1. A control pedal for attachment to the floor of a vehicle, comprising a bracket secured to the floor, two plates separately pivoted to the bracket with the pivotal axes in alignment, and a unitary flexible pad overlying and secured to both plates.

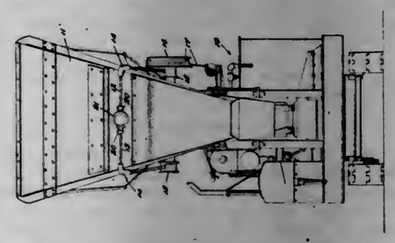
1,918,219. BRAKE TESTING APPARATUS. B. WICKLIFFE TWYMAN, South Bend, Ind. Filed Dec. 19, 1929. Serial No. 415,173. 3 Claims. (Cl. 73—51.)

1. A brake tester unit for an individual wheel, a plurality of said units being adapted to be used in a set as desired, each unit comprising a carriage, spaced rollers arranged on the carriage for supporting a wheel of a



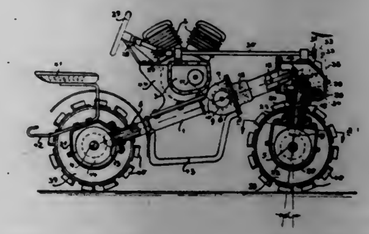
vehicle, a brake testing device connected to the rollers, a motor for operating the brake testing device, and a jack on the carriage.

1,918,220. STRAIN EQUALIZER FOR MULTIPLE CABLES. GEORGE K. VIALL, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 17, 1930. Serial No. 482,639. 9 Claims. (Cl. 254—135.)



1. The combination with a plurality of lengths of cable, of a single member floating between and wholly supported by adjacent lengths movable at an angle to the longitudinal axes of the said cables for equalizing the tension upon them.

1,918,221. TRACTOR. ANTON WEBER and LUDWIG WEBER, KREUZNACH, Germany. Filed Apr. 29, 1932, Serial No. 608,230, and in Germany May 23, 1931. 6 Claims. (Cl. 180—44.)

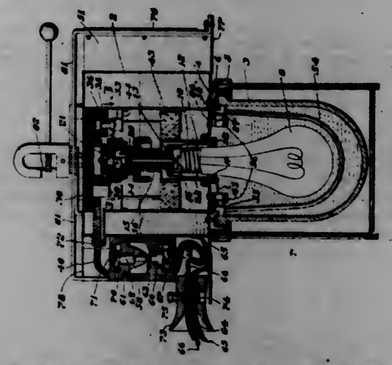


1. A motor vehicle comprising, in combination with the machine frame, a hollow pivot pin, a front axle rotatably mounted on said pivot pin, a driving shaft situated in said pivot pin and geared to the front axle, front wheels on both ends of the front axle and rigidly connected to same, said pivot pin and said driving shaft being supported on the front axle to one side of the middle of the same.

1,918,222. METHOD OF PRODUCING SYNTHETIC RESINS AND PRODUCTS THEREOF. LOUIS WEISBERG and WILLARD F. GREENWALD, New York, N. Y., assignors to Weisberg & Greenwald, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 31, 1931. Serial No. 526,760. 22 Claims. (Cl. 260—8.)

1. A synthetic resin including the reaction product of triethanolamine with an organic carboxylic acid.

1,918,223. MINE LAMP. GRANT WHEAT, Marlboro, Mass., assignor to Koehler Manufacturing Company, Marlboro, Mass., a Corporation of Massachusetts. Filed Apr. 18, 1931. Serial No. 531,156. 24 Claims. (Cl. 240—11.3.)

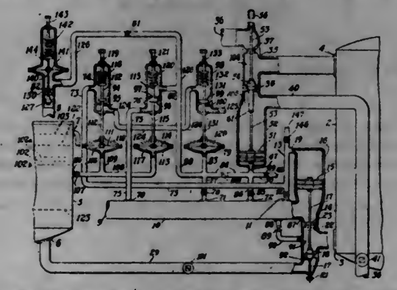


1. In a mine lamp structure, the combination of a container adapted to hold a body of water and including a translucent portion, an electric lamp mounted in said container in position to direct its rays through said translucent portion, said lamp including a bulb, means for supporting said lamp with the greater part of said bulb submerged in the water in said container, and circuit connections for supplying current to said lamp including contacts normally held in circuit closing relationship by the buoyancy of said bulb.

1,918,224. PAINT AND VARNISH REMOVER. MELVILLE M. WILSON, Chicago, Ill., assignor to The Sharples Solvents Corporation, Philadelphia, Pa., a Corporation of Delaware. Filed Feb. 15, 1929. Serial No. 340,330. 11 Claims. (Cl. 87—5.)

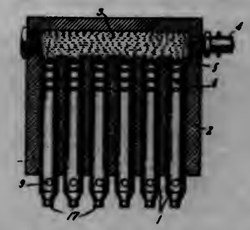
1. A paint and varnish remover comprising a volatile paint- and varnish-softening agent, and amylene dichloride.

1,918,225. WATER SOFTENING APPARATUS. ANDREW J. DOTTERWEICH, Pittsburgh, Pa. Filed June 11, 1930. Serial No. 460,375. 3 Claims. (Cl. 210—24.)



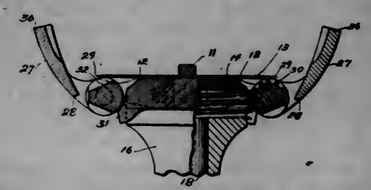
1. Water softening apparatus comprising in combination a softener tank, a brine tank, interconnecting piping therefor, a source of raw water supply leading to said tanks, operating valves controlling the flow of fluid to and from said tanks to a point of use and to a drain, and mechanism responsive to the head pressure in said brine tank for controlling said operating valves to regenerate the softening material.

1,918,226. MULTIPLE SPOT WELDING ELECTRODE. RALPH A. GILBERT, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed May 19, 1932. Serial No. 612,275. 6 Claims. (Cl. 219—4.)



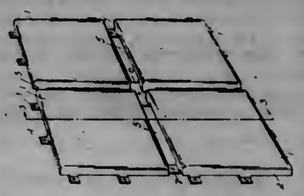
2. Welding apparatus comprising a plurality of electrode plungers, a supporting member for said plungers having a fluid chamber into which each of said plungers projects, and means for connecting said plungers to a source of welding current.

1,918,227. SAFETY RAZOR. JOSEPH MUROS, Belmont, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware. Filed July 30, 1932. Serial No. 626,287. 15 Claims. (Cl. 30—12.)



9. A safety razor comprising a head and a handle, said head including a blade support, a blade positioned on said support, cap and guard members movably connected to said support in combination with means to produce both swinging and tilting movements of said cap and guard members with reference to each other and to the blade and blade support.

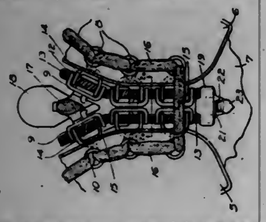
1,918,228. METAL TILE WALL STRUCTURE. HERBERT R. SPENCER, Erie, Pa., assignor to Porcelain Tile Corporation, a Corporation of Delaware. Filed Oct. 3, 1929. Serial No. 397,013. 3 Claims. (Cl. 189—85.)



1. 1. A metal tile wall comprising a supporting wall backing; metal tile plates, each having a plurality of tile units spaced one from another, the plates being cut

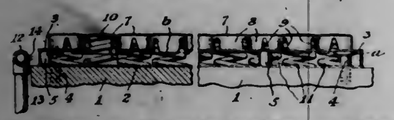
through between the units and having joining straps at intervals, said plates having securing projections along their edges, said joining straps and projections being under the plane of the plates, the projections of one plate underlying an adjacent plate with a spacing in the manner of the spacing between the units; and a plastic filler in the spaces between the plates.

1,918,229. SEPARABLE FASTENER. GIDEON SUNDBACK, Meadville, Pa., assignor to Hookless Fastener Company, Meadville, Pa., a Corporation of Pennsylvania. Filed Nov. 9, 1929, Serial No. 406,129, and in Canada Feb. 27, 1929. 11 Claims. (Cl. 24—205.)



1. A separable fastener comprising a pair of expansible and contractible cord stringers, a plurality of locking members securely clamped to said cord stringers each adapted to interlock with a locking member mounted substantially opposite thereto on the other of said stringers, and means for connecting said stringer at spaced intervals to the edges of a closure, each locking member having integral means so formed that when engaged no substantial relative longitudinal shifting movement will take place.

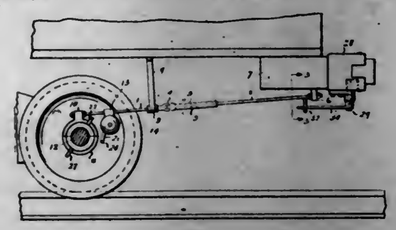
1,918,230. PAD FOR IRONING MACHINES, ETC. ROBERT N. WEST, Maplewood, N. J. Filed May 31, 1930. Serial No. 458,246. 5 Claims. (Cl. 68—9.)



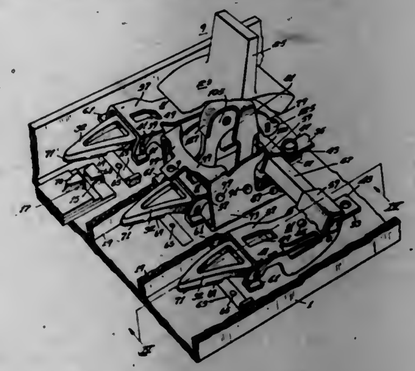
1. A resilient pad for ironing machines, comprising an apertured grid, a bottom member to which such grid is secured, spring-retainer elements respectively mounted in the apertures of said grid, means for preventing the accidental escape of such retainer elements from their respective apertures while admitting of the ready removal thereof when desired, spring elements confined between said bottom member and said spring-retainer elements, said spring elements being readily removable and replaceable when said retainer elements are removed from said grid; and said retainer elements normally projecting a substantial distance above such grid.

1,918,231. AUTOMATIC SIGNAL DEVICE. EDWIN HOBBY CHESNUTT, Houston, Tex.; Mrs. Pearl Chesnutt administratrix of said Edwin Hobby Chesnutt, deceased, assignor of forty-nine per cent to G. B. Chesnutt, R. E. Chesnutt, and J. A. Chesnutt, Harris County, Tex. Filed May 2, 1932. Serial No. 608,790. 6 Claims. (Cl. 246—168.)

1. The combination with a railway car having a truck provided with a revolving striker, of a signal device mounted on the car, arranged to be actuated by the striker when in active position and movable into inactive position out of the range of said striker, and means normally holding said device in said active position and being arranged to be actuated by an adjacent car to move the signal device to inactive position.



1,918,232. CIRCUIT INTERRUPTER. BENJAMIN P. BAKER, Turtle Creek, Pa., and MAURICE W. BEAINARD, Los Angeles, Calif., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 26, 1932. Serial No. 624,758. 13 Claims. (Cl. 200—87.)



1. In a circuit interrupter, a stationary contact member, a movable switch member cooperating therewith for opening and closing the circuit, said movable switch member including a conducting member and a pivotally mounted contact member for engaging said stationary contact member, and magnetic means for biasing said engaging contact members toward each other, said magnetic biasing means including a member of magnetic material positioned adjacent said conducting member.

1,918,233. FERTILIZER MATERIAL AND PROCESS OF PREPARING THE SAME. GRAY SINGLETON, Fort Meade, and ROBERT P. THORNTON, Lakeland, Fla. Filed Apr. 8, 1930. Serial No. 442,679. 16 Claims. (Cl. 71—9.)

1. The process of preparing fertilizer materials which comprises mixing a cyanamid material with a fruit pulp and allowing a reaction to take place until substantially all of the cyanamid material is converted into urea.

Patents Nos. 1,918,234 to 1,919,183

CARNEGIE LIBRARY OF ATLANTA

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 432—No. 3 TUESDAY, JULY 18, 1933 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $16.00 per annum; including annual index, $18.25; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
ISSUE OF JULY 18, 1933	511
ADJUDICATED PATENTS	511
NOTICE OF CANCELLATION	511
RULE 72	511
REISSUE APPLICATIONS—DRAWINGS	511
PRINTED COPIES OF TRADE-MARKS	511
APPLICATIONS UNDER EXAMINATION	512
DECISIONS OF THE U. S. COURTS—	
In re Short	513
Harlan-Wallins Coal Corp. v. Transcontinental Oil Co. (The Ohio Oil Company, Assignee, Substituted)	514
Evans v. Clooker and MacFarlane	515
Bell v. Hoffmann	516
PATENT SUITS	518
DISCLAIMERS	520
TRADE-MARKS PUBLISHED (170 APPLICATIONS)	521
TRADE-MARK REGISTRATIONS GRANTED	543
TRADE-MARK REGISTRATIONS RENEWED	552
LABELS	553
PRINTS	553
REISSUES	555
PLANT PATENT	556
DESIGNS	557
PATENTS GRANTED	567

July 18, 1933

Trade-Marks	228	No. 304,693 to No.	304,920,	inclusive.
T. M. Renewals	26			
Labels	32	No. 42,400 to No.	42,431,	inclusive.
Prints	6	No. 14,268 to No.	14,273,	inclusive.
Reissues	6	No. 18,895 to No.	18,900,	inclusive.
Plant Patent	1	No. 70		
Designs	51	No. 90,302 to No.	90,352,	inclusive.
Patents	950	No. 1,918,234 to No.	1,919,183,	inclusive.
Total	1,300			

Adjudicated Patents

(D. C. Conn.) Klein patent, No. 1,240,459, for electric switch, claims 1, 2, 4, 5, and 6 *Held* invalid. *Cutler-Hammer, Inc.*, v. *Carling Tool & Machine Co.*, 3 F. Supp. 150.

(C. C. A. Fla.) Kessler patent, No. 1,336,287, for engine valve attachment, claims 1 and 2 *Held* invalid. *Kessler* v. *Buick Motor Co.*, 64 F.(2d) 599.

(D. C. Conn.) Meuer patent, No. 1,651,035, for electric switch, claim 1 *Held* invalid. *Cutler-Hammer, Inc.* v. *Carling Tool & Machine Co.*, 3 F. Supp. 150.

(D. C. Pa.) Steckel patent, No. 1,779,195, for method and apparatus for rolling thin sheetlike material, *Held* valid but not infringed. *Cold Metal Process Co.* v. *United Engineering & Foundry Co.*, 3 F. Supp. 120.

(D. C. Conn.) Meuer patent, No. 1,783,665, for electric switch, claims 2, 3, and 22 *Held* invalid. *Cutler-Hammer, Inc.*, v. *Carling Tool & Machine Co.*, 3 F. Supp. 150.

(D. C. N. Y.) Vieau patent, No. 1,805,428, for centrifugal clothes drier, Vieau *Held* in suit under section 4915 Revised Statutes (U. S. C. title 35, sec. 63) not the first inventor. *Easy Washing Mach. Corporation* v. *Vieau*, 3 F. Supp. 205.

(D. C. Ind.) Jordan patent, No. 1,833,581, for fishing lure, claim 17 *Held* valid and infringed. *South Bend Bait Co.* v. *Berman*, 3 F. Supp. 174.

Notice of Cancellation

U. S. PATENT OFFICE, *Washington, June 12, 1933.*

George G. Waldron, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Chanel, Inc., 35 West 34th St., New York, N. Y., to effect the cancellation of the trade-mark registration of George G. Waldron, 117 West 116th St., New York, N. Y., No. 158,127, dated August 22, 1922, and the notice of such proceeding sent by registered mail to the said Waldron at the said address having been returned by the post-office as undeliverable, notice is hereby given that unless said Waldron, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Rule 72

RULE 72. After the completion of the application the Office will not return the specification for any purpose whatever. If applicants have not preserved copies of the papers which they wish to amend, the Office will furnish them on the usual terms.

The drawing may be withdrawn only for such corrections as cannot be made by the Office; but a drawing cannot be withdrawn unless a photographic copy has been filed and accepted by the Examiner as a part of the application. Permissible changes in the construction shown in any drawing may be made only by the Office and after an approved photographic copy has been filed. Sketches filed to show proposed changes in construction must be in permanent ink. (See Rule 30.) Substitute drawings will not be admitted in any case unless required by the Office.

Reissue Applications—Drawings

"53. In reissue applications the drawings upon which the original patent was issued may be used upon the filing of suitable permanent photographic copies thereof, if no changes are to be made in the drawings."

Printed Copies of Trade-Marks

A printed copy of the drawing and statement of any registered trade-mark can be obtained for ten cents.

Condition of Applications Under Examination at Close of Business June 30, 1933

(Total number of applications awaiting action, excluding Trade-Mark Division, 49,838; Trade-Mark Division, 972. Oldest new case, Mar. 1, 1933; oldest amended, Mar. 1, 1933.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Handling Implements	Mar. 1	Mar. 1	632
6708	2. HERRMANN, D. (Act.), Fishing and Trapping; Dairy; Animal Husbandry; Presses; Tobacco; Velocipedes.	Mar. 6	Mar. 9	844
4003	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Apr. 8	Apr. 25	604
7083	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Mar. 6	Mar. 6	589
3628	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Apr. 1	Apr. 1	478
4806C	6. LEWERS, A. M., Carbon Chemistry	Mar. 14	Mar. 17	1,065
5725	7. JARBOE, C. G., Optics; Photography	Mar. 17	Mar. 15	1,047
7514	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Apr. 24	Apr. 20	489
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Apr. 5	Apr. 5	628
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Apr. 5	Apr. 5	501
5067B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Mar. 1	Mar. 2	696
7701	12. HENRY, C. C., Machine Elements	Mar. 20	Mar. 20	599
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Apr. 3	Apr. 1	671
5097	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	Apr. 10	Apr. 10	486
4897	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Mar. 16	Mar. 16	1,170
5612	16. SPENCER, C. J., Telegraphy; Telephony	Apr. 1	Apr. 1	504
5701	17. ARMSTRONG, H. (Act.), Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet, Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Mar. 1	Mar. 1	1,042
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	May 10	May 11	263
4096	19. KENNEDY, A. R., Furnaces and Stoves; Heating Systems; Fuel Burners	Mar. 2	Mar. 2	1,041
6612	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	May 8	May 5	257
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Mar. 2	Mar. 6	850
5724	22. RINGLE, D. (Act.), Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Mar. 6	Mar. 8	1,008
7892	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Mar. 3	Mar. 6	502
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	May 1	May 2	457
5709	25. BLAKELY, C. F., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Mar. 1	Mar. 2	1,009
5803	26. ADAMS, W. M. (Act.), Electricity, Generation; Motive Power	Apr. 12	Apr. 14	461
5708	27. CLARK, W. N. (Act.), Brushing, Scrubbing, and Cleaning; Washing Apparatus	Apr. 1	Apr. 1	492
4628	28. BENSON, A. R., Internal-Combustion Engines	Mar. 1	Mar. 1	778
5082	29. MORRIS, B. N., Woodworking; Tools; Compound Tools; Furniture; Metal Working, Assembling.	Apr. 4	Apr. 3	344
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	Mar. 22	Mar. 23	668
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Mar. 6	Mar. 6	1,247
4086	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Apr. 4	Apr. 5	493
6086	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Mar. 6	Mar. 6	1,198
6625	34. SAPERSTEIN, S. (Act.), Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders.	Mar. 1	Mar. 1	1,000
3600	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Mar. 6	Mar. 10	798
7624	36. McFAYDEN, A. D. (Act.), Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Mar. 1	Mar. 1	1,312
5889	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 1	Apr. 1	589
7510	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Mar. 1	Mar. 1	715
4874	39. WHITNEY, F. J. (Act.), Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Mar. 14	Mar. 14	805
7880	40. OBERLIN, J. J., Receptacles	Mar. 15	Mar. 15	1,329
6062	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles: Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices.	Mar. 13	Mar. 13	610
5882	42. CUTTING, H. O., Electric Signaling	Mar. 6	Mar. 6	917
4806B	43. KLINGE, E. F., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Mar. 14	Mar. 14	970
4067B	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Mar. 1	Mar. 1	802
7097	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	May 1	May 8	347
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers	Mar. 21	Mar. 24	543
7600	47. BARKER, H., Clutches and Power Stops; Brakes; Motors	Mar. 17	Mar. 15	1,070
5731	48. ROEPKE, O. B., Electricity, General Applications	Mar. 15	Mar. 13	664
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Mar. 1	Mar. 1	888
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Mar. 1	Mar. 1	973
5628	51. BACKUS, C. D., Radiant Energy	Apr. 3	Apr. 3	809
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Apr. 15	Apr. 26	480
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Apr. 25	Apr. 29	498
5674	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Mar. 6	Mar. 6	818
6887	55. BOWEN, S. T. (Bread, Pastry, and Confection Making; Cutlery)	Apr. 14	Apr. 14	317
	(Designs)	June 5	June 8	288
4725	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Mar. 15	Mar. 11	894
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Apr. 3	Apr. 1	411
5605	58. DOWELL, E. F., Abrading; Typewriting	Apr. 4	Apr. 3	390
4709	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Cement and Lime; Hides, Skins, and Leather; Fuel.	Mar. 24	Mar. 28	639
5896	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Mar. 6	Mar. 6	1,014
6724	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Horology; Time-Controlling Apparatus.	Mar. 10	Mar. 10	594
7525	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles.	Apr. 1	Apr. 1	1,223
4868	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Mar. 3	Mar. 3	1,080
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue	Mar. 16	Mar. 17	1,066
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Mar. 2	Mar. 2	1,079
2800B	Trade-Marks, Labels, and Prints: F. A. RICHMOND (Trade-Marks)	May 31	June 16	824
	(Labels and Prints)	June 3	June 16	148

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

In re Short

No. 3,998. Decided April 17, 1933

1. Patentability—Process of Making Piston Rings.

Claims for a process of making piston rings *Held* unpatentable over the prior art.

2. Same—Piston Ring.

Claims for a piston ring differentiating from the prior art only by the statement that the ring is made of "high carbon" steel *Held* unpatentable since the term "high carbon" is not sufficiently definite to differentiate from the prior art.

Appeal from the Patent Office. Affirmed.

Mr. A. W. Davidson for Short.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

Graham, *P. J.*:

The appellant filed his application in the United States Patent Office for a patent upon improvements in piston rings and method of making the same. A number of claims were allowed, but claims 10, 15, 17, 20, 23, 24, 25, 26, 27, 29, 33, 34, 35, and 36, were rejected by both tribunals below, and the applicant has appealed. In this court the appellant has moved to dismiss his appeal as to said claim 27.

Claims 10, 24, and 33 are thought to be typical, and follow:

10. The process of making piston rings which consists in providing an embryo ring which roughly approximates the shape of the finished article, placing the ring in a suitable die, and applying pressure to the ring in an axial direction thereby reducing the axial dimensions of the ring and causing the metal to flow laterally to assume substantially the shape and dimensions of the finished article.

24. A piston ring of hardened high carbon steel.

33. The method of making a piston ring of a given shape in cross section which consists of producing a ring of such shape in cross section that the working of the metal necessary to reduce it to the desired shape in cross section will give it the necessary hardness, toughness and resiliency, and applying pressure to the ring to appreciably change its shape in cross section throughout the length thereof.

The references relied upon were: Dulk, 1,121,836, December 15, 1914; White, 1,107,005, August 11, 1914; Gill, 1,186,980, June 13, 1916; Wright, 1,018,149, February 20, 1912.

Appellant discloses a method of making steel piston rings, substantially as follows: Pieces of stock, square in cross section, but with beveled corners, are bent into shape and cut into ring-like portions, the length of the stock in each ring being somewhat shorter than the circumferential length of the completed ring. This stock ring is then placed in a die and pressed until it assumes its proper form. In this pressing process the metal flows to fill the beveled corners, and also flows longitudinally, thus lengthening the ring. This pressing, it is claimed, together with the rolling and bending of the stock, produces desirable changes in the structure of the ring, by which it becomes more resilient, makes a closer union with the wall of the cylinder, and has other desirable features.

[1] In our opinion, the references cited show the processes employed to be old and known to the art. Dulk shows a method of cutting over-size rings, then reducing them to the proper size by pressure applied to the opposite sides of the rings, which he teaches may be done by a "power press having parallel die faces," and otherwise. White used flat spring wire, which he bends into rings, and, by pressure exerted by a forming disk, changes the cross section of the wire, shapes a ring, and causes the metal of the stock to flow into proper form, thus producing an identical result with the one produced by appellant here.

[2] We may now direct our attention to the article claims, illustrated by claim 24. The substance of appellant's claims of this group is that he has constructed his piston rings of high carbon steel. In support of the patentability of these claims, he argues that the prior art does not show the use of high carbon steel for such purposes; that high carbon steel has much different characteristics and qualities than other steels; and that, by the use of such high carbon steel, he has secured new and useful results, amounting to invention.

In response to this the Patent Office calls attention to the fact that the patents to Wright and Gill call for the use of steel, generally, in making piston rings, and that appellant has not indicated, by his designation "high carbon steel," any clear patentable distinction between his disclosure and that of Wright and Gill.

We find ourselves in agreement with this conclusion. Wright uses a band or strip of steel in making his rings. Gill uses sections of steel tubing. The disclosures of both are sufficiently broad to teach the use of any quality or kind of steel.

To constitute an inventive advance over these patents, the inventor must disclose that some particular variety of steel will produce results not theretofore known to, or understood by, the art. Such a disclosure may constitute invention. *In re Pilling*, 18 C. C. P. A. (Patents) 703, 44 F.(2d) 878, 403 O. G. 513; *In re Gray et al.*, 19 C. C. P. A. (Patents) 745, 53 F.(2d) 520, 415 O. G. 220; *In re Richter*, 19 C. C. P. A. (Patents) 756, 53 F.(2d) 525, 415 O. G. 221; *In re Wells*, 19 C. C. P. A. (Patents) 1044, 56 F.(2d) 674, 420 O. G. 292.

However, if such particularity is lacking, a patent will not issue. *In re Marshall*, 19 C. C. P. A. (Patents) 832, 54 F.(2d) 421, 416 O. G. 538.

It is urged quite earnestly that "high carbon steel" is a variety of steel well known to the art. No authorities are referred to supporting this proposition. The Board of Appeals states:

As a matter of fact, there is no clear physical distinction between high carbon steel and medium carbon steel, each merging into the other.

By reference to standard authorities, we find high carbon steel variously defined as being steel containing 0.6 per centum and over of carbon, 0.6 to 1.4 per centum of carbon, 0.85 per centum and over of carbon, and 0.65 to 0.85 per centum of carbon.

Steel and its Heat Treatment, Bullens, p. 211; The Manufacture and Properties of Iron and Steel, Campbell, p. 95; The Making, Shaping and Treating of Steel, Carnegie, p. 259; Encyc. Brit. 14th Ed. vol. 12, p. 666.

It thus appears that this group of appellant's claims are indefinite, and have added nothing to the knowledge already possessed by the art. For this reason, they were properly disallowed.

Finally, it is argued that certain claims were subsequently allowed to Marshall, No. 1,758,575, which are the equivalents of certain of appellant's rejected claims here, and that, therefore, the appellant's said claims should be allowed. As we said in *In re Fischer*, 18 C. C. P. A. (Patents) 1076, 47 F.(2d) 794, 409 O. G. 563, and cases therein cited, the fact that the Patent Office may have committed an error and issued an invalid patent, cannot be taken as a reason for the subsequent issuing of another having the same defects. However, in the Marshall patent the allowed claims definitely state therein the quantity of carbon present. This constitutes an essential difference from appellant's indefinite term, "high carbon," and may create a patentable distinction.

For the reasons given, the appeal as to claim 27 is dismissed, and as to the remaining claims the decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

HARLAN-WALLINS COAL CORP. *v.* TRANSCONTINENTAL OIL CO. (THE OHIO OIL COMPANY, ASSIGNEE, SUBSTITUTED)

No. 3,115. Decided April 17, 1933

1. TRADE-MARKS—GOODS OF THE SAME DESCRIPTIVE PROPERTIES.

Coal *Held* to be goods of the same descriptive properties as burning oils, refined and semi-refined petroleum, etc., since these goods are used for the same purposes, are sold in competition with each other by the same dealers, have, to a degree, the same origin, and are closely associated in the public mind.

2. SAME—SAME—PATENT OFFICE CLASSIFICATION.

"This court has never deemed the Patent Office classification of articles to be of controlling importance in the ascertainment of whether two articles are of the same descriptive properties. In fact, we have many times held to the contrary."

APPEAL from the Patent Office. Affirmed.

Mr. Chas. R. Allen for Harlan-Wallins Coal Corp.

Messrs. Munn, Anderson, Stanley, Foster & Liddy and *Mr. Sylvester J. Liddy* for Transcontinental Oil Co.

GRAHAM, *P. J.:*

Appellant filed its application in the United States Patent Office for registration of a trade-mark claimed to be used by it since February 15, 1930, in connection with the sale of coal. The mark consists of the words: "Marathon Coal Best in the Long Run."

The word "coal" was disclaimed, except in connection with the mark.

The appellee opposed the mark, claiming confusing similarity with a registered mark owned by it and used on goods of the same descriptive properties. This mark consists of a representation of a youth, running, with the words "Marathon Products" superimposed, and with the slogan underneath: "Best in the Long Run," which mark was duly registered on November 30, 1920, and was and is used in connection with the sale of—

carbon or water-white burning oils, refined and semirefined petroleum, kerosene, gasolene, bensine, and naphtha, lubricating greases, and lubricating and illuminating oils.

Other earlier registered marks are pleaded, but the same need not now be considered.

The Commissioner affirmed the decision of the Examiner of Interferences sustaining the opposition and denied registration.

The evidence of record shows quite clearly that the opposer and its predecessors in title have been using their registered mark in connection with the sale of fuel oil continuously since a date long prior to February 15, 1930. The record also establishes the facts that fuel oil and coal are sold in competition with each other, and, oftentimes, by the same dealers, and that fuel oil is semi-refined petroleum.

It is not seriously contended that the marks are not confusingly similar. The only issue is upon whether the goods are of the same descriptive properties.

[1] We are clearly of opinion that they are. They are used for the same purposes, and are sold in competition with each other, by the same dealers, have, to a degree, the same origin, and are closely associated in the public mind. In such cases, it needs little argument to convince one that the prior owner and user of a registered trade-mark on one of these products should be protected against registration of substantially the same mark, by a newcomer who sells the other product.

The use of coal and oils as fuel is so near akin that we have said that devices for feeding the same, respectively, to furnaces, are goods of the same descriptive properties. *Cross* v. *Williams Oil-O-Matic H. Corp.* 18 C. C. P. A. (Patents) 1192, 48 F.(2d) 659, 410 O. G. 540; *Williams Oil-O-Matic H. Corp.* v. *Bliss*, 19 C. C. P. A. (Patents) 821, 54 F.(2d) 430, 416 O. G. 537.

It is stated by appellant that the Patent Office, in its classification of various products, has placed gasoline and oils in "Class 15, Oils and greases" and coal in "Class 1, Raw or partly-prepared materials." From this fact it is argued that the court should follow this classification and hold that the goods are not of the same descriptive properties. In support of this contention, counsel for appellant relies upon two authorities, *Cross* v. *Williams Oil-O-Matic H. Corp.*, supra, and *Beech-Nut Co.* v. *Lorillard Co.*, 273 U. S. 629, 360 O. G. 747.

We are unable to see where this point was involved in the decision of the first case cited. The latter case originated in the United States District Court of the District of New Jersey. *Beech-Nut Packing Co.* v. *P. Lorillard Co.*, 299 Fed. 834, was appealed to the Circuit Court of Appeals, Third Circuit, 7 F.(2d) 967, and finally was taken by the Supreme Court on writ of certiorari. The Patent Office classification

is mentioned in the opinions filed in the two inferior courts, but only as a circumstance bearing upon the alleged similar descriptive properties of the articles involved, namely, food products on the one hand, and tobacco on the other. The Supreme Court does not discuss this question. Careful consideration of these cases leads to the conclusion that it was the general character of the goods involved, and the liability of confusion, rather than the Patent Office classification, that led to the judgment that the goods were not of the same descriptive properties.

[2] This court has never deemed the Patent Office classification of articles to be of controlling importance in the ascertainment of whether two articles are of the same descriptive properties. In fact, we have many times held to the contrary. *Cluett, Peabody & Co.* v. *Hartogensis*, 17 C. C. P. A. (Patents) 1166, 41 F.(2d) 94, 396 O. G. 707; *Kotex Co.* v. *McArthur*, 18 C. C. P. A. (Patents) 787, 45 F.(2d) 256, 404 O. G. 4; *Celanese Corp. of Am.* v. *Vanity Fair Silk Mills*, 18 C. C. P. A. (Patents) 958, 47 F.(2d) 373, 407 O. G. 579; *Procter & Gamble Co.* v. *Prescott Co.*, 18 C. C. P. A. (Patents) 1433, 49 F.(2d) 959, 413 O. G. 1105; *Gilbert Co.* v. *Gilbert Choc. Co.*, 18 C. C. P. A. (Patents) 1267, 48 F.(2d) 930, 411 O. G. 273.

Each case involving the issue of goods of the same descriptive character must be settled on its own facts. There is no hard and fast rule which can be announced in such cases. In determining the issue in such cases, we will consider, among other things,

the use, appearance, and structure of the articles, the similarity of the packages or containers in which, the place or places where, and the people to whom, they were sold.

Williams Oil-O-Matic Heat. Corp. v. *Westinghouse Elec. & Mfg. Co.* 20 C. C. P. A. (Patents) ——, 62 F.(2d) 378.

We find no error in the decision of the Commissioner, and it is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

EVANS *v.* CLOCKER AND MACFARLANE

No. 3,121. Decided April 17, 1933

INTERFERENCE—PRIORITY.

Evidence reviewed and *Held* that priority was properly awarded to C. and MacF.

APPEAL from the Patent Office. Affirmed.

Mr. D. P. Wolhaupter and *Mr. Emory L. Groff* for Evans.

Messrs. Strauch & Hoffman and Mr. James A. Hoffman for Clocker and MacFarlane.

BLAND, *J.:*

Three counts are at issue in this interference proceeding, numbered, respectively, 1, 2, and 3. Count 1 is illustrative and follows:

1. A guiding and lubricating device for the travellers of spinning machines comprising an annular lubricant receiving channel member, a traveller guide extending inwardly from one wall of said annular lubricant receiving channel member, and an annular opening between said guide and the other wall of said annular lubricant receiving channel member adapted to receive and guide the ends of the traveller.

On certain types of spinning machines there are metal spinning rings with which traveller bars are used. The rings and bars work in a frame or a holder, and the threads being worked upon when the machine is in actual use has the effect of raising the traveller bars upward and keeping them in sliding contact with the under side of the spinning rings. The ends of the traveller bars, working underneath the rings, if not oiled, wear quickly. It has long been a problem to oil the ends of the traveller bars without soiling the threads as they come in contact with the device. The involved invention, broadly speaking, consists in providing an annular lubricating pan or chamber in the frame holding the rings into which oil is placed, and into which the ends of the traveller bars drop when the threads slacken. When the machine again operates, the oil is lifted to the rings and thus wear is avoided.

Evans claims conception of the invention in September, 1926, and reduction to practice within a few days thereafter. He filed his application on July 25, 1927.

Appellees filed their joint application on August 27, 1927, claimed conception late in the year 1926 but after September, and claimed that they reduced the invention to practice prior to March, 1927.

Evans at one time claimed that the appellees received their invention from him. On hearing here, counsel for Evans withdrew the question of originality. Appellees claim that Evans received his knowledge of his invention from them. They base this claim upon the fact that the office where Evans worked was adjacent to and nearby the room where the Clocker and MacFarlane exhibits were being tested, together with certain statements made to Evans by Jones and Haas, fellow employees. Evans denies knowledge of such statements.

Both tribunals held that there was not sufficient evidence to show that either party obtained the invention from the other, and that, therefore, the record presented a case of priority in separate inventions. With this conclusion we agree.

Evans claims to have conceived his invention in the middle of a night in September, 1926, explained it to his wife, and in a few days thereafter constructed his Exhibit 2 which is in part of lead. Portions of his testimony were corroborated by his wife and brother-in-law. The testimony in this regard is well set out and discussed in the Board's opinion and follows:

Concerning the question of priority, Evans claims to have conceived the idea of causing the ends of the traveller to dip up drops of oil from a supply and thereby impart oil to the underside of the guide ring, at 2:30 one morning. His testimony as to this occurrence is as follows:

Q. 25. Please recite the circumstances under which you disclosed it to your wife? A. After I saw the trouble that was composed in the Wilkes-Barre Silk Company of soiled silk it got in my mind about getting a new ring of some sort. I went home and about 2.30 in the morning I woke up. I also woke my wife up and she says to me what's the matter and I said come down stairs and I will show you. She came down, I went out in the shop and had a few extra fliers there, I came back, I took a small machine oil can and dumped some oil in the palm of my hand, I took the traveler and dipped one end of it in the oil and as I raised it up it formed one drop. I took the other end and put it in the palm of my hand in the oil and also raised that up, that also formed a drop, which I done several times which brought me to the idea of forming an oil well for 5 S spinning machines.

Q. 26. In your last answer you stated you had "a few extra flyers there". Did you mean that? A. No I meant travelers.

This was testified by Evans as being "around the middle of September 1926." Evans' wife, Mrs. Rheda A. Evans, corroborates her husband as to this incident but it is not apparent that the simple test described is a conception of the elements required by the counts or a disclosure of such complete combination to the wife. It is not made clear whether Evans at that time conceived how the oil was to be applied to the ends of the traveler. While he states that the experiment of dipping oil from his hand by the end of the traveler brought him to the idea of forming an oil well, it is not stated when this latter feature was conceived or disclosed. He does not state that it was described to his wife nor does Mrs. Evans mention any annular oil pan. We are of opinion that the merits of this claimed disclosure are not sufficient to constitute proof of conception of the features required by the counts. Evans claims to have constructed an attachment very shortly after the time of the demonstration, as

Q. 27. After this demonstration you gave your wife, what next did you do? A. I went and made one very shortly after.

Q. 28. How soon after, the next morning or when? A. Very close. Around Saturday or Sunday.

Q. 29. Where were you living when you made Exhibit No. 2? A. When I made this Exhibit No. 2 I was living at 137 Hartford Street, Ashley.

Exhibit No. 2 is an annular pan with integral ears and formed of soft metal apparently lead. It has obviously been turned upon a lathe as testified. The exhibit also comprises a guide ring. Evans' wife and brother-in-law—R. E. Christman—corroborates him in testifying that he made the lead pan portion by casting lead and turning it on a lathe. Mrs. Evans gives no information as to when the pan was made except that it was made while Mr. Evans' shop was on the front of lot No. 135, Hartford St. The shop remained there until May, 1927. Christman is definite as to the date which he claims to determine by reference to a trip to the town of Indiana, Pennsylvania, and the parade of the Klansmen in Washington, D. C. of September 13, 1926. Evans testifies that he did not explain the purpose of the pan to Christman:

X Q. 247. Did you explain to Mr. Christman what you were doing? A. No. I didn't, because it wouldn't interest him, and Christman states he did not know what parts were necessary in addition to the pan to complete the device.

Q. 27. Did you know or did he tell you what was necessary to make it complete? A. No, he didn't.

Mrs. Evans fails to make clear whether she knew what the complete combination was to be. It is not contended by Evans that either of these witnesses or any other person besides himself saw the complete assembly pan, guide ring and traveler and it is clear from the record that no one besides himself saw the assembly applied to a spinning machine and operated. All of this data which is essential as corroboration of Evans is lacking. We are unable to agree that the experiment with the oil or the construction of the lead pan are sufficiently complete in themselves to entitle Evans to the dates thereof for conception. The test or operation of the device which Evans claims he made by secretly applying it to cooperate with one of the spindles of a spinning machine at the Wilkes-Barre Silk Co. fails as a reduction to practice because of lack of any corroboration whatever. It further appears that considerable doubt is raised as to these tests by the rebuttal testimony on behalf of Clocker and MacFarlane which shows that during the time that Evans claims to have tested Exhibit No. 2 on the spinning machine, they were equipped to receive smaller guide rings and holders than those of Exhibit No. 2 and that the attaching screws on the ring rails would not register therewith to properly center the holder and ring. We find no error in decision of the Examiner of Interferences in thus not according Evans benefit of these matters for conception and reduction to practice.

The Examiner of Interferences held that Evans did not conceive the invention before the latter part of May, 1927. The Board of Appeals gave Evans no conception date earlier than the date of reduction to practice by the appellees. Evans was awarded no date earlier than his filing date for reduction to practice. His alleged testing of the device on the machines of the company for whom he worked is discussed and analyzed by the Board and a repetition of the same is not necessary here, since we arrive at the same conclusion in this respect as was arrived at by the Board.

The Board held that the testimony of three witnesses, Jones, Haas, and Bogert, fellow workmen in the Wilkes-Barre Silk Company plant, showed appellees' conception in the early part of 1927. It also stated that the same testimony would appear to support reduction to practice of the counts involved. The Board concluded that appellees' reduction to practice was certainly established by the commercial installation of devices like Exhibit No. 4 on machines of the mill, which installation was commenced at least before June 10, 1927. The Examiner of Interferences pointed out that appellees' reduction to practice must have occurred at least prior to the annual stockholders' meeting of the Wilkes-Barre Silk Company in the latter part of March, 1927, since at that time the record shows that the invention was there discussed. The witnesses testified that one of the exhibits involving the invention at bar was tested and operated successfully prior to this meeting, and that at such meeting commercial installation of the device was authorized. There are other circumstances and facts, supported by some documentary evidence, which confirm the conclusion that the appellees had fully reduced the invention to practice prior to the date given Evans for his conception.

The Board of Appeals of the United States Patent Office held that the appellees, under these circumstances, were the prior inventors of the invention involved in the three counts here on appeal and awarded priority to the appellees.

We have carefully considered the evidence in the record and the arguments of appellant's counsel, but we are not convinced that the concurring findings of the two tribunals below are manifestly wrong. Under these circumstances, the decision of the Board should not be reversed. *Clancy* v. *DeJahn*, 17 C. C. P. A. (Patents) 714, 36 F.(2d) 131; 392 O. G. 244; *Stern* v. *Schroeder*, 17 C. C. P. A. (Patents) 670, 36 F.(2d) 515; 393 O. G. 3; *Stern* v. *Schroeder*, 17 C. C. P. A. (Patents) 690, 36F.(2d) 518; 393 O. G. 4; *Oldroyd* v. *Morgan*, 58 App. D. C. 78, 24 F.(2d) 1004; 374 O. G. 4. On the contrary, for reasons stated in the Board's opinion, we think the decision of the Board was correct and the same is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

BELL v. HOFFMANN

No. 3,106. Decided April 17, 1933

INTERFERENCE—PRIORITY—ORIGINALITY.

Evidence reviewed and *Held* to establish that B. derived his knowledge of the invention from H. and that priority was properly awarded to the latter.

APPEAL from the Patent Office. Affirmed.

Mr. John Boyle, jr., for Bell.

Mr. I. R. Paris and *Mr. Wollheim* for Hoffmann.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office, affirming a decision of the Examiner of Interferences, awarding priority of invention to appellee.

The issue is stated in eight counts, of which counts 1 and 8 are illustrative and read as follows:

1. The process of preparing concrete mixtures for deferred use comprising the steps of mixing all ingredients at a central station to form concrete, transporting the mixture to a remote point and conditioning the mixture during transportation by subjecting the same to a combined slow, rolling and flowing motion while maintaining an unbroken surface on the entire exterior of the mixture for the expulsion of entrained air therefrom.

8. Apparatus of the class described, comprising an automotive truck having a body frame, a rotatable and tiltable tank having a smooth walled and unencumbered interior, carried by said truck and having its rear end substantially overlie the rear end of the body frame, a tiltable frame disposed between said tank and said body frame, a pivotal connection between said tiltable frame and the rear end of said body frame, a pair of longitudinally aligned trunnion bearings carried and supported by said tiltable frame, said tank having trunnions supported by said bearings, and means for rotating said tank.

Of the counts in issue, 1 to 7, inclusive, are process counts, and count 8 is for apparatus. The interference involves two applications filed by appellee, on August 24, 1927, and March 19, 1928, respectively, and an application filed by appellant on July 29, 1929.

The invention involved is described in the decision of the Board of Appeals as follows:

The process includes the step of conditioning concrete, the ingredients of which have already been mixed. Some of the process counts include the step of transporting the mixture to a point remote from the mixing or central station during the conditioning operation. The latter operation consists of subjecting the mixture to a slow, rolling and flowing motion while maintaining an unbroken surface on the entire exterior of the mixture for the expulsion of entrained air therefrom.

For this purpose, the concrete is transported in a cylindrical tank which is supported for rotation about its longitudinal axis on the chassis of a motor truck. The tank is slowly rotated by a power take-off from the truck propelling means, or by a separate motor. The tank is mounted on a sub-frame which is pivotally connected to the rear end of the truck frame and the forward end of which is adapted to be elevated by a hoist carried by the truck, for the purpose of facilitating the discharge of the concrete through an opening in the rear end of the tank. This opening and a filling opening in the cylindrical surface of the tank are maintained closed by doors during transportation.

The apparatus count 8 is rather specific and includes several of the features mentioned above. It further specifies that the tank has a smooth walled and unencumbered interior, and that its rear end substantially overlies the rear end of the body frame.

Both parties took testimony. The principal issue involved is that of originality of invention, each of the parties claiming that he disclosed it to the other.

Both parties reside in Reading, Pa. Appellee was president and general manager of the Clinton Motors Corporation which, prior to the making of the invention here involved, was engaged in said city primarily in the production and sale of motor trucks. Appellant was president of the Biehl Iron Works, Inc., which manufactured and sold to contractors equipment of various kinds, including concrete handling equipment, and was also engaged in the general fabrication of articles made from iron.

It is the contention of appellant that on July 19, 1927, he disclosed to appellee, and others present at the time of such disclosure, the invention here involved, while appellee contends that at said time he disclosed the invention to appellee and the others present.

It appears from the record that the Ready Mixed Concrete Corporation, doing business in the city of New York, early in 1927 required a number of motor truck chassis and bodies therefor, suitable for the hauling of pre-mixed concrete. Following negotiations involving appellee, one Gillespie (representing said New York corporation,) and others, the Clinton Motors Corporation was authorized, about May, 1927, to build a dump bucket body to be mounted on a Clinton truck. This dump bucket body appears to have been designed in part by appellee and in part by an employee of said New York corporation. Inasmuch as the Clinton Motors Corporation did not manufacture dump buckets, appellee called in appellant, whose company was engaged in that line of manufacture, and the bucket was built by said Biehl Iron Works. This bucket was tested early in July in New York and was found unsatisfactory for the purpose intended. It was then altered at the plant of the Biehl Iron Works and, mounted on a Clinton truck chassis, was again tested on July 19, 1927, when it was again found unsatisfactory. It is conceded by both parties that the bucket so tested did not involve, either as to apparatus or process, the invention here involved.

At said test of July 19, 1927, it is conceded that there were present, in addition to the parties hereto, said Gillespie, one Rene Gouirand, an employee of said New York corporation, and one Klick, an employee of said Clinton Motors Company. It is further conceded that, following said test, a discussion was had among appellant, appellee, Gillespie and Gouirand. Whether said Klick was also present during the said discussion, or within hearing of it, is a matter of dispute in the testimony. At this discussion there was suggested the use of a rotating tank having a smooth inner surface, the capacity of the tank not to be fully utilized, for the transportation of mixed concrete. Appellant testified that in said discussion he suggested this character of apparatus, while appellee testified that he made the suggestion. Appelle's testimony upon this point is corroborated by said Klick, while appellant's testimony is corroborated by the testimony of said Gillespie. The testimony of Gourand upon this point is rather indefinite and unsatisfactory, due to his poor command of the English language.

On either July 20 or 21, following this test, appellee placed previously mixed concrete in a cylindrical tank having a smooth interior and rotated the tank in a lathe. It was found that the concrete did not stratify during this test, which was conducted in a small gasoline tank; this demonstrated the success of the disclosure made during the discussion hereinbefore referred to. Appellee then proceeded with the manufacture of the first piece of commercial apparatus involving the invention here in issue, the tanks being built by said Biehl Iron Works under orders from appellee. Appellant and appellee continued their business relations for a period of about two years, during which time appellant's company constructed about 100 tanks upon the order of appellee. Their business relations were terminated when appellee learned that appellant had constructed a tank embodying the invention here in issue for a party other than the Clinton Motors Corporation.

Appellant testified that, after the first piece of commercial apparatus had been constructed and taken to New York, appellee made an agreement

with him that he, appellee, would apply for a patent upon the invention for the protection of both, and would guarantee appellant orders for 100 tanks per year, upon condition that appellant would sell such tanks exclusively to the Clinton company.

It appears from the evidence that appellant received from appellee orders for less than 50 tanks per year, but appellant made no claim of violation of contract; that on August 12, 1927, appellee entered into a contract with said Ready Mixed Concrete Corporation, signed by the witness Gillespie and others on behalf of the corporation, in which it was recited that

> the said Edward A. Hoffmann is the sole inventor of a revolving cylindrical body mounted on a truck and which is to be used for the purpose of transporting mixed concrete,

and in which contract appellee agreed to execute any and all patent applications necessary to fully protect said invention, and further agreed to assign a one-half interest therein to said corporation; that on August 24, 1927, appellee filed his first application for a patent upon the invention, the application having been prepared by the attorney for said Ready Mixed Concrete Corporation.

It is clear that before said contract of August 12, 1927, was entered into, Gillespie had a clear conception of the primary elements of the invention, viz, a revolving cylindrical body, mounted on a truck, without any agitating means within said body.

Gillespie testified that immediately after the test of the first commercial device delivered to said Ready Mixed Concrete Corporation, early in August, 1927, the treasurer of said corporation, a Mr. St. John, insisted upon said Gillespie instituting negotiations for patent protection of the invention, in which said corporation should have an interest, as a result of which the witness personally accompanied appellee to a patent attorney for the purpose of preparing an application for patent upon the invention, and said contract of August 12, 1927, was entered into, whereby a one-half interest in the invention was to be assigned by appellee to said corporation, the corporation to have the exclusive sales agency of trucks embodying the invention, and upon its part the corporation agreed to pay to appellee's company, the Clinton Motors Corporation, 20 per centum profit upon all devices embodying the invention ordered by it.

The participation of Gillespie in said contract, and his taking appellee to a patent attorney, do not appear to be consistent with his testimony that appellant was the one who disclosed the invention to him on July 19, 1927.

Gillespie offers no explanation of this apparent inconsistency. While it is true that what constitutes invention is a conclusion from a state of facts, the recital in the contract that—

> Hoffmann is the sole inventor of a revolving cylindrical body mounted on a truck

is practically identical, so far as description of the apparatus is concerned, with Gillespie's testimony concerning the disclosure which he testified was made by appellant on July 19, viz,

> that a cylindrical tank could be mounted in some way or other and kept in motion by some device or another,

and it would seem that if appellant made this disclosure, Gillespie in securing protection for his company would not have regarded appellee as the inventor.

We gather from the record that at the time of taking his testimony Gillespie was no longer connected with the Ready Mixed Concrete Corporation, but was engaged in the manufacture and sale of concrete carriers under the name of the Parke Concrete Carrier Corporation, which he controlled either wholly or in part.

In view of the entire record, we are inclined to the view that Gillespie was either mistaken in his recollection respecting the disclosure of the invention by appellant on July 19, 1927, or that there should have been some explanation of his subsequent conduct, above related, in order to entitle his testimony concerning said disclosure by appellant to be given probative force.

In view of the foregoing, we do not think Gillespie's testimony can be given weight as corroborating appellant's testimony of disclosure. Appellant's conduct for a period of nearly two years subsequent to the commercial use of the invention is not consistent with the theory that the main features of the invention originated with him. The conception was a simple one, like many inventions of very great value, and it would seem that if appellant conceived and disclosed the idea of a revolving cylindrical tank, without agitating means in the interior thereof, he would at once have realized that he was the inventor thereof, even though he was not familiar with the patent laws. He testified, however, that he did not believe he was the inventor until so informed by his attorneys upon his statement of facts to them, and even after he was so informed he took no steps to assert any rights to the invention until the business relations between appellant and appellee were terminated.

Appellant further assigns error upon the part of the Commissioner of Patents in denying the petition of appellant that the applications of appellee be stricken from the files because they were not signed with the true legal name of the party Hoffmann.

Whether the Commissioner erred as alleged can not be considered by us upon this appeal. *Sundback* v. *Blair*, 18 C. C. P. A. (Patents) 1016, 47 F.(2d) 378, 408 O. G. 290.

For the reasons stated, the decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1932.]

1,154,498, W. I. Ferris, Gold pen, D. C., S. D. N. Y., Doc. E 69/284, *L. E. Waterman Co.* v. *W. A. Sheaffer Pen Co.* Dismissed without prejudice (notice May 23, 1933).

1,224,703, G. H. Benjamin, Method of dehydrating and curing tobacco, appeal filed Feb. 21, 1933, C. C. A., 3d Cir., Doc. 5112, *Consumers Tobacco Co.* v. *American Tobacco Co.*

1,289,423, A. D. Smith, Manufacture of gasoline; 1,321,749, U. S. Jenkins, Apparatus for treating petroleum; 1,550,115, A. D. Smith, Method of obtaining gasoline and other low-boiling point distillates from heavier hydrocarbons, filed Feb. 10, 1933, D. C., E. D. Pa., Doc. 7541, *Jenkins Petroleum Process Co.* v. *Sinclair Refining Co.*

1,266,407, V. Clifford, Method of sealing oil storage tanks; 1,273,033, same, Oil storage tank, D. C., N. D. Okla. (Tulsa), Doc. E 201, *V. Clifford* v. *Johns-Manville, Inc., et al.* Dismissed without prejudice May 25, 1933.

1,273,033. (See 1,266,407.) 1,320,884. (See 1,647,753.)

1,321,749. (See 1,289,423.)

1,336,880, C. E. Farrington, Barrel agitator, filed Feb. 27, 1933, D. C., E. D. Pa., Doc. 7569, *C. E. Farrington et al* v. *The Gilden Co.*

1,358,215, F. X. Kempel, Sign-writer's pen, filed Mar. 10, 1933, D. C., E. D. Pa., Doc. 7595, *F. X. Kempel* v. *S. Halpern et al.*

1,383,484, R. Reiner, Shuttle, D. C. N. J., Doc. E 4361, *R. Reiner, Inc.*, v. *Sacntis, Inc.* Decree for defendant Mar. 28, 1933.

1,433,018, 1,774,182, L. J. McMillin, Vehicle dumping apparatus, D. C., S. D. Ohio, W. Div., Doc. E 334, *L. J. McMillin* v. *The Sidney Grain Machinery Co. et al.* Final decree for plaintiff by consent May 24, 1933.

1,466,656, Barr & Jackson, Electric toaster; 1,820,885, H. C. Le Vine, same, filed May 25, 1933, D. C., W. D. Mich., S. Div., Doc. E 2651, *H. C. Le Vine* v. *Montgomery Ward & Co., Inc., et al.*

1,474,152, 1,474,597, A. A. Kent, Induction coil, filed Jan. 21, 1933, D. C., E. D. Pa., Doc. 7493, *Delco-Remy Corp. et al.* v. *New York Coil Co.*

1,474,597. (See 1,474,152.)

1,476,804, M. G. de Simone, Denominator and adding machine, D. C., E. D. Pa., Doc. 7511, *M. G. de Simone* v. *N. C. Ovelit* (*International Payroll Machine Co.*). Injunction granted May 17, 1933.

1,480,014. (See 1,647,753.)

1,534,478, W. J. Wiswall, Manifolding book, C. C. A., 2d Cir., Doc. 12620, *American Sales Book Co., Ltd.*, v. *Autographic Register Co.* Discontinued (notice May 24, 1933).

1,546,461, A. Apostoloff, Dry cell, D. C. Dela., Doc. E 943, *Safety Seal Corp.* v. *Bond Electric Corp.* Dismissed May 17, 1933.

1,547,529, W. P. Stanton, Concrete mold; 1,547,530, same, Method and apparatus for manufacturing hollow concrete building blocks, D. C., S. D. Calif. (Los Angeles), Doc. R–111–C, *National Stone Tile Corp.* v. *Marbelite Corp. of America.* Dismissed with prejudice April 3, 1933.

1,547,530. (See 1,547,529.) 1,550,115. (See 1,289,423.)

1,619,798, Lewis & Murray, Container for hair in permanent waving process; 1,856,692, G. Comerford, Wrapper for use in hair waving process, filed Apr. 1, 1933, D. C., E. D. Pa., Doc. 7623, *The Nestle Le Mur Co.* v. *J. J. Doyle.*

1,641,374, W. A. Chryst, Induction coil; 1,647,417, W. G. Schneider, same, filed Jan. 21, 1933, D. C., E. D. Pa., Doc. 7491, *Delco-Remy Corp.* v. *New York Coil Co.*

1,643,720. (See Re. 17,265.) 1,647,417. (See 1,641,374.)

1,647,753, Scott & Wellensiek, Drill cutter; 1,820,884, Godbold & Fletcher, same; 1,480,014, F. L. Scott, Self-cleaning roller drill, filed May 27, 1933, D. C., W. D. Okla. (Oklahoma City), Doc. E 1494, *Hughes Tool Co.* v. *Southwestern Tool Co. et al.*

1,648,007, L. Schwarzmann, Gold lettering machine, filed Feb. 6, 1933, D. C., E. D. Pa., Doc. 7531, *Patented Machinery Development Corp. et al.* v. *Universal Publishing Syndicate Corp.*

1,687,323, H. S. Cook, Medicament cartridge and hypodermic syringe embodying same; 1,715,771, J. MacGregor, Hypodermic syringe and cartridge therefor, filed Jan. 14, 1933, D. C., E. D. Pa., Doc. 7483, *Cook Laboratories, Inc.*, v. *B. Goodman* (*Procol Chemical Co.*).

1,715,771. (See 1,687,323.)

1,718,025, R. Bishinger, Hair curling appliance, D. C., N. D. Ohio, E. Div., Doc. E 4303, *R. Bishinger et al* v. *Modernistic Permanent Wave Machine Co. et al.* Dismissed without prejudice May 18, 1933.

1,737,187, Church & Prindle, Moistureproof material; 1,826,699, same, Method of preparing moisture proof material; 1,826,696, same, Moisture proofing composition; 1,826,697, Church & Craigue, Apparatus for coating; 1,826,698, same, Method of coating, D. C. Del., Doc. E 952, *Du Pont Cellophane Co., Inc.*, v. *Sylvania Industrial Corp.* Dismissed without prejudice upon stipulation May 19, 1933.

1,774,182. (See 1,433,018.) 1,820,885. (See 1,466,656.)

1,826,696. (See 1,737,187.) 1,826,697. (See 1,737,187.)

1,826,698. (See 1,737,187.) 1,826,699. (See 1,737,187.)

1,830,768, I. M. Rod, Art of making garments, filed Apr. 4, 1933, D. C., E. D. Pa., Doc. 7629, *Rokap Corp.* v. *L. Farbman et al.* (*Farbman & Wilson*). Doc. 7631, *Rokap Corp.* v. *S. Yusem et al.* (*The Silvertex Co.*). Consent decree for plaintiff May 26, 1933. Doc. 7633, *Rokap Corp.* v. *S. Bell et al.* (*Royal Clothing Co.*). Consent decree for plaintiff May 17, 1933.

1,836,405, H. M. Siemann, Flag holder, filed Feb. 8, 1933, D. C., E. D. Pa., Doc. 7533, *H. M. Siemann* v. *Dettra Flag Co., Inc.*

1,845,718. (See Re. 18,139.) 1,856,692. (See 1,619,798.)

1,863,269, H. Fox, Upholstery edge, filed Feb. 15, 1933, D. C., E. D. Pa., Doc. 7551, *The Fox Edge Co., Inc.*, v. *F. Whitaker Co., Inc.*

1,864,459. (See Re. 18,498.)

1,864,460. (See Re. 18,498.)

1,879,861, 1,879,863, H. A. Wheeler, Volume control, D. C., S. D. N. Y., Doc. E 73/445, *Hazeltine Corp.* v. *Howard Radio Co. et al.* Dismissed without prejudice May 14, 1933.

1,879,863. (See 1,879,861.)

1,882,437, W. T. MacLeester, Manufacture of monomethyl-para-amino-phenol and its sulphate, filed Mar. 17, 1933, D. C., E. D. Pa., Doc. 7609, *Eastman Kodak Co. v. W. T. MacLeester.*

Re. 17,265 (of 1,643,720), L. J. McKone, Connecting rod structure, filed May 24, 1933, D. C., W. D. Mich. (S. Div.), Doc. E 2650, *L. J. McKone* v. *Universal Car & Service Co. et al.*

Re. 18,139, C. Lipper, Textile fabric; 1,845,718, same, Textile fabric and method of making same, filed Jan. 31, 1933, D. C., E. D. Pa., Doc. 7519, *Lipper Mfg. Co.* v. *Frank Associates, Inc.*

Re. 18,498, H. E. Norviel, Ignition apparatus; 1,864,459, same, Switch; 1,864,460, same, Switch and coil unit filed Jan. 21, 1933, D. C., E. D. Pa., Doc. 7495, *Delco-Remy Corp.* v. *New York Coil Co.*

Des. 77,477, A. C. Elishewitz, Imitation straw braid fabric for hats; Des. 77,478, same, Braid, appeal filed May 19, 1933, C. C. A., 2d Cir., Doc. 12,764, *J. Elishewitz & Sons Co., Inc.*, v. *Bronston Bros. & Co., Inc.*

Des. 77,478. (See Des. 77,477.)

T. M. 271,752, H. Kessinger, Laxative preparation in tablet form, filed May 22, 1933, D. C., S. D. Tex. (Houston), Doc. E 579, *H. Kessinger* v. *M. Wiesenthal et al.*

Disclaimers

1,483,273.—*David G. Blattner*, Bogota, N. J. CIRCUIT FOR HEATING THE FILAMENTS OF AUDIONS. Patent dated February 12, 1924. Disclaimer filed June 24, 1933, by the assignee, *American Telephone and Telegraph Company*.

Hereby enters this disclaimer to claims 6 and 8 of said Letters Patent, to wit:

"6. An electric wave repeating apparatus comprising divided input and divided output circuits, means for producing an ionized stream included in each division of said output circuit, said means including hot cathode means, electrodes, one in each division of said input circuit for controlling said ionized streams respectively, and means for supplying cyclically varying heating current to said cathode means."

"8. In combination, an incoming circuit, an outgoing circuit, and a circuit for transferring indications from the first to the second of said circuits comprising an electric discharge device having a cathode, an anode, and an anode circuit, a source of alternating current for heating said cathode, said anode circuit being inductively coupled to said outgoing circuit, and a second electric discharge device having a cathode heated from said source of alternating current and an anode circuit inductively coupled to said outgoing circuit in opposition to the first mentioned anode circuit."

1,504,537.—*Harold De Forest Arnold*, Maplewood, N. J. POWER-LIMITING AMPLIFYING DEVICE. Patent dated August 12, 1924. Disclaimer filed June 24, by the assignee, *American Telephone and Telegraph Company*.

Hereby enters this disclaimer to claims 17, 18, 20, 33, 34, 35, and 36 of said Letters Patent, to wit:

"17. An amplifier comprising two electrical discharge devices, input and output circuits therefor, said devices being symmetrically and oppositely disposed with respect to each of said circuits, space current paths for said devices, said paths having a common external portion of high impedance.

"18. An amplifier comprising two electrical discharge devices, input and output circuits therefor, said devices being symmetrically and oppositely arranged with respect to each of said circuits, space current paths for said devices, a source of space current therefor, said paths having a common external portion, and means associated with said source for preventing fluctuating currents therethrough."

"20. A repeater comprising two electric discharge devices each having a cathode, an anode and an impedance varying element, a connection between said impedance varying elements, a connection between said cathodes, a connection between said anodes, an electrical impedance in one of said connections, an electrical impedance in another of said connections, other connections from intermediate portions of each of said impedances to one of said first mentioned connections, one of said last named connections being provided with a source of current, and means tending to maintain a constant supply from said source."

"33. In an electric system, an incoming circuit and a plural stage amplifier for amplifying signals from said circuit comprising in one stage of said amplifier two vacuum tube repeaters connected in push-pull relation, and at least one stage consisting of a single vacuum tube amplifier feeding into said push-pull stage.

"34. In an amplifying system in which the amplitude of the current increases in succeeding stages, a current responsive device actuated by the energy from said system, at least one preliminary amplifying stage consisting of a single vacuum tube amplifier circuit, and a succeeding stage for delivering the amplified current to said responsive device, said last mentioned stage comprising a pair of vacuum tube amplifiers connected in push-pull relation.

"35. In a plural stage amplifier circuit for amplifying signal currents, employing vacuum tube amplifiers in which, for relatively strong output currents at least, as the amplitude of the repeated wave becomes larger the distortion of the wave increases, said amplifier circuit comprising at least one stage consisting of a single vacuum tube repeater operating over a relatively small current amplitude range and giving amplification with the required degree of faithfulness of repetition of the signal and a stage into which said single tube stage feeds, for amplifying the repeated wave up to a current amplitude at which undesired distortion would take place in a single one of said tubes used alone, said later stage comprising a pair of vacuum tube repeaters connected in push-pull relation, whereby at said large current amplitude a faithfulness of repetition is obtained consistent with that of the preceding stage.

"36. In combination, three electron discharge tubes, means for supplying discharge current to said tubes, two of said tubes being connected in push-pull relation, the other one of said tubes being arranged to impress amplified signal waves on said push-pull connected tubes of such amplitude that at the peak amplitude of said waves, for a given half-cycle the resultant momentary decrease in the normal discharge current through one of said push-pull connected tubes reduces the discharge current through said tube near to zero."

1,566,333.—*Samuel M. Lucas*, Pittsburgh, Pa. STATIC-PHASE-SHIFTING APPARATUS. Patent dated December 22, 1925. Disclaimer filed June 22, 1933, by the assignee, *The Union Switch & Signal Company*.

Hereby enters the following disclaimer, to wit:

Your petitioner hereby disclaims the subject matter of claims 1, 5, 6, 7, and 8.

1,604,556.—*Lemuel F. Howard*, Edgewood Borough, Pa. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. Patent dated October 26, 1926. Disclaimer filed June 22, 1933, by the assignee, *The Union Switch & Signal Company*.

Hereby enters the following disclaimer, to wit:

Your petitioner hereby disclaims the subject matter of claims 1, 2, 3, 4, and 7.

1,610,394.—*Howard A. Thompson*, Wilkinsburg, Pa. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. Patent dated December 14, 1926. Disclaimer filed June 22, 1933, by the assignee, *The Union Switch & Signal Company*.

Hereby enters the following disclaimer, to wit:

Your petitioner hereby disclaims the subject matter of claims 1, 2, and 5.

1,653,379.—*Howard A. Thompson*, Edgewood Borough, and *Charles W. Fallor*, Pittsburgh, Pa. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. Patent dated December 20, 1927. Disclaimer filed June 22, 1933, by the assignee, *The Union Switch & Signal Company*.

Hereby enters the following disclaimer, to wit:

Your petitioner hereby disclaims the subject matter of claims 8 and 10.

1,833,521.—*Robert M. Gilson*, Pittsburgh, Pa. MOTOR CONTROL APPARATUS. Patent dated November 24, 1931. Disclaimer filed June 22, 1933, by the assignee, *The Union Switch & Signal Company*.

Hereby enters the following disclaimer, to wit:

Your petitioner hereby disclaims the subject matter of claims 2, 3, 4, 5, 15, and 16.

CARNEGIE LIBRARY OF ATLANTA

TRADE-MARKS

OFFICIAL GAZETTE, JULY 18, 1933

[VOL. 432. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 322,921. MAX MUELLER, New York, N. Y. Filed Jan. 11, 1932.

PALIBA

For Artificial Straw, Plaiting Fibre, and Horsehair in the Unwoven State.
Claims use since Jan. 4, 1932.

Ser. No. 335,886. ST. CLAIR RUBBER CO., Marysville and Detroit, Mich. Filed Mar. 20, 1933.

DURAFLEX

For Flexible Mold Material.
Claims use since Feb. 10, 1933.

Ser. No. 338,451. THE CRAVENETTE COMPANY, U. S. A., Hoboken, N. J. Filed June 2, 1933.

Cravenette

For Leather.
Claims use since February, 1933.

Ser. No. 338,460. R. NEUMANN & COMPANY, Hoboken, N. J. Filed June 2, 1933.

TANGLNET

For Leather.
Claims use since May 7, 1933.

Ser. No. 338,461. R. NEUMANN & COMPANY, Hoboken, N. J. Filed June 2, 1933.

TYNET

For Leather.
Claims use since May 7, 1933.

CLASS 2

Receptacles

Ser. No. 332,312. SCOVILL MANUFACTURING COMPANY, Waterbury, Conn. Filed Nov. 19, 1932.

ROLL-TOP

For Empty Base Metal Lipstick Containers.
Claims use since Oct. 14, 1932.

Ser. No. 338,334. NORTHERN INDUSTRIAL CHEMICAL COMPANY, doing business as Bell Mfg. Co., Boston, Mass. Filed May 29, 1933.

BELLWARE

For Tableware—Namely, Plates, Bowls, Cups and Saucers, Trays, Salt and Pepper Shakers, Sugar Bowls, Cream Pitchers, Tumblers and Goblets, Such Articles Being Made of a Synthetic Resin or Condensation Product, Molded Under Heat and Pressure.
Claims use since Dec. 28, 1932.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 333,341. VEREINIGTE WACHSWARENFABRIKEN A. G., Ditzingen near Stuttgart, Germany. Filed Dec. 23, 1932.

HOLMENKOL

For Shoe Paste and Polish, Leather and Shoe Oils and Fats, Ski Wax, Metal Polish, and Oils, Fats, and Waxes for Treating and Conserving Skis.
Claims use since November, 1924.

Ser. No. 335,105. LORENA K. HARPER, doing business as Scram Products Company, Detroit, Mich. Filed Feb. 17, 1933.

SCRAM!

For General Cleaning Compound for Woodwork, Painted Walls, Linoleum, Tile, and the Automobile.
Claims use since Oct. 15, 1932.

Ser. No. 336,234. CONSTANTINE T. SPIROPULOS, doing business as Marvel Chemical Mfg. Co., New York, N. Y. Filed Mar. 30, 1933.



For White Shoe Cleaner.
Claims use since April, 1932.

Ser. No. 336,822. FULLERIZING, INC., Cleveland, Ohio. Filed Apr. 15, 1933.

FULLERIZING

For Agent Employed Primarily as a Dry-Cleaning Preparation in Cleaning and Dyeing Processes.
Claims use since Dec. 2, 1932.

Ser. No. 337,572. THE NORTH AMERICAN POLISH COMPANY, Cleveland, Ohio. Filed May 6, 1933.



No claim is made to the lining, which indicates orange and blue, on the drawing. The picture being fanciful.
For Metal Polish in Powder Form—Namely, a Cleaning and Polishing Compound or Material for Cleaning and Polishing Metallic and Wood Surfaces, Composition Surfaces, Marble, Enameled Ware, Painted and Enameled Surfaces, Glass, Porcelain, and Tile.
Claims use since Jan. 1, 1902.

Ser. No. 337,573. THE NORTH AMERICAN POLISH COMPANY, Cleveland, Ohio. Filed May 6, 1933.



No claim is made to the lining, which indicates orange and blue, on the drawing. The picture being fanciful.
For Liquid Metal Polish—Namely, a Cleaning and Polishing Compound or Material for Cleaning and Polishing Metallic and Wood Surfaces, Composition Surfaces, Marble, Enameled Ware, Painted and Enameled Surfaces, Glass, Porcelain, and Tile.
Claims use since Jan. 1, 1902.

Ser. No. 337,937. ANNA L. TEEL, Bangor, Pa. Filed May 17, 1933.

CRYSTALIC

For Cleaning and Polishing Preparation for Eyeglasses, Lenses, Windows, Windshields, Mirrors, Glassware, Porcelain, Agate, and Tile.
Claims use since Mar. 8, 1933.

Ser. No. 337,977. ABRAHAM A. OESTREICH, doing business as Travis Co., New York, N. Y. Filed May 18, 1933.



Applicant disclaims sole rights to the words "Brushless Shaving Cream" apart from the mark as shown. The drawing is lined to indicate red and green.
For Shaving Cream.
Claims use since Mar. 8, 1933.

Ser. No. 338,526. LOS ANGELES SOAP CO., Los Angeles, Calif. Filed June 5, 1933.

BM

For Soap.
Claims use since Feb. 10, 1933.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 325,971. ALEXANDER SLAWSON, New York, N. Y. Filed Apr. 9, 1932.

THEY DESERVE THE BEST
DOCTOR
SLAWSON'S
DOG AND CAT MEDICINES
KEPT 'EM WELL AND HAPPY FOR YEARS

Applicant hereby disclaims the wording "They Deserve the Best", "Kept em Well and Happy for Years", also "Dog and Cat Medicines", apart from the mark as shown.
For Veterinarian Medicines, Comprising Rheumatism Medicine for Dogs, Vomiting Medicine for Dogs, Nerve Sedative for Dogs, Medicine for Diarrhea and Cramps in Dogs, Kidney and Bladder Medicine for Dogs, Tonic for Dogs, Laxative for Dogs, Digestant for Dogs, Worm Medicine for Removing Stomach Worms in Dogs, Worm Medicine for Removing Stomach and Hook Worms in Dogs, Worm Medicine for Removing Tape and Round Worms in Dogs; Medicine for Distemper in Dogs, Also for Colds, Cough, and Fever; Medicine for Removing Round Worms in Kittens and Cats, Laxative for Constipation and Biliousness, Aids in Removing Hair Balls in Cats, Worm Medicine for Removing Tape and Round Worms in Cats, Medicine for Improving Function and Aiding in Preventing Gravel, and Medicine for Colds, Congestion, and Chronic Cough in Cats.
Claims use since Jan. 5, 1928.

Ser. No. 331,825. UNCLE SAM LABORATORIES, Dallas, Tex., Washington, D. C., and Los Angeles, Calif. Filed Oct. 17, 1932.



For Scalp Oil, Scalp Tonic.
Claims use since May 8, 1932.

Ser. No. 332,004. COLE CHEMICAL COMPANY, Wilmington, Del., and St. Louis, Mo. Filed Nov. 9, 1932.

ANTERI-COLE

The word "Cole" forms a part of this registration only in association with other parts of the mark "Anteri-Cole".
For Hormone Solutions for the Treatment of Menorrhagia, Metrorrhagia, Serility, Amenorrhea, Oligomenorrhea, Natural Menopause, Frigidity, and the Like.
Claims use since July 21, 1932.

Ser. No. 333,300. ROMANY HERB PRODUCTS, INC., Atlanta, Ga. Filed Dec. 22, 1932.

ROMANY

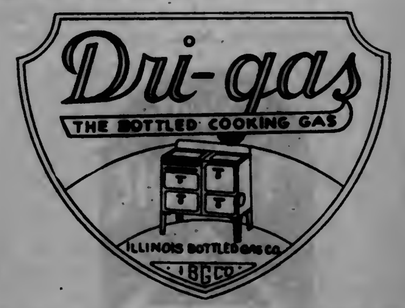
For Vegetable Compound Tea for the Treatment of Constipation, Indigestion, Pimples Caused from Impure Blood, Rheumatism, Kidney Trouble, Etc.
Claims use since June 12, 1932.

Ser. No. 333,819. HENRY J. BROWNSTEIN, doing business as Hysan Products Company, Chicago, Ill. Filed Jan. 11, 1933.

HYSAN

For Disinfectants and Insecticides.
Claims use since Apr. 1, 1931.

Ser. No. 334,013. ILLINOIS BOTTLED GAS COMPANY, Chicago, Ill. Filed Jan. 17, 1933.



No claim is made to the exclusive use of the notation "Dri-gas", the slogan "The Bottled Cooking Gas", or the representation of the conventional gas range.
For Bottled Cooking Gas.
Claims use since Jan. 1, 1933.

Ser. No. 335,432. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Mar. 2, 1933.

CIGNOLIN

For Preparation for Use as an Antipsoriatic, Antimycotic, and Antisycotic.
Claims use since Nov. 15, 1915.

Ser. No. 335,655. URADO PRODUCTS COMPANY, Salt Lake City, Utah. Filed Mar. 14, 1933.

URADO

For Medicinal Oils of a Petroleum Base for Hay Fever, Eczema, Athlete's Foot, Ring-Worm, Cuts and Bruises, and Other Skin Diseases.
Claims use since April, 1930.

Ser. No. 336,204. THE ABILENA COMPANY, Abilene, Kans. Filed Mar. 30, 1933.

ABILENA

For Natural Mineral Water Crystals.
Claims use since Oct. 21, 1931.

Ser. No. 336,579. SCHEIPER BROS., Brooklyn, N. Y. Filed Apr. 8, 1933.

PLANETAR

For Medicinal Preparation for the Treatment of Stomach Illness and Internal Disorders Due to Cancer.
Claims use since Mar. 15, 1933.

Ser. No. 336,588. CARL G. ADLER, doing business as Tri-Pur Company, Bay City, Mich. Filed Apr. 7, 1933.



Applicant disclaims any registration on the drawing or labels other than the wording of "Tri-Pur" or "Tri-Pur Co."
For Aspirin, Castor Oil, Cod Liver Oil, Tonic Laxative Pills, Antiseptic, Milk of Magnesia, and Antacid Powder.
Claims use since Mar. 1, 1933.

Ser. No. 336,662. S. S. PIERCE CO., Boston, Mass. Filed Apr. 11, 1933.

Roval

For Toilet Preparations—Namely, Lip Sticks, Dusting Powders, Talcum Powders, Nail Polish, Face Powders, Sachet and Tooth Paste, Cold Cream, Liquid Face and Hand Cream and Solid Face Powder.
Claims use since Apr. 3, 1926.

Ser. No. 336,756. FRANCIS J. CURRAN, doing business as The Zoro Company, Oak Park, Ill. Filed Apr. 14, 1933.



ZORATOR

For Toilet Bowl Deodorants and Disinfectants.
Claims use since Oct. 1, 1932.

Ser. No. 337,052. SYL-VETTE, INC., Wheeling, W. Va. Filed Apr. 21, 1933.



For Preparation Used in the Treatment of Obesity and Weight Control.
Claims use since Jan. 15, 1933.

Ser. No. 337,207. ALLCOCK MANUFACTURING CO., Ossining, N. Y. Filed Apr. 27, 1933. Under 10-year proviso.

ALLCOCK

For Medicated Porous Plasters.
Claims use since 1835.

Ser. No. 337,306. NIPPON SHONO KABUSHIKI-KAISHA, Kobe, Japan. Filed Apr. 29, 1933.

REFINED
CAMPHOR
TRADE MARK
The NIPPON CAMPHOR Co. LTD.
KOBE. JAPAN

No claim is made to any of the wording shown in the drawing except the English equivalent of the applicants' name "The Nippon Camphor Co. Ltd."
For Camphor and Camphor Oil.
Claims use since 1918.

Ser. No. 337,600. LYLE A. CLOUGH, Flint, Mich., assignor to Uncold Laboratories Inc., Flint, Mich. Filed May 8, 1933.

UNCOLD

Trade-mark consists of the word "Uncold".
For Ointment for the Treatment of Colds, Burns, Wounds and Infections.
Claims use since Sept. 20, 1931.

Ser. No. 337,607. DAVID GRENNBERG, doing business as Neway Products Corp., Chicago, Ill. Filed May 8, 1933.

NUFUME

For Germicides, Insecticides and Fungicides.
Claims use since Mar. 28, 1933.

Ser. No. 337,611. ERNEST T. KREAS, San Francisco, Calif. Filed May 8, 1933.

Sarcarcinase

For Powder to be Used in Solution for Injection into Malignant Cancerous Growths and for Intramuscular and Intravenous Treatment of Malignant Growths.
Claims use since Feb. 15, 1933.

Ser. No. 337,666. CALIPH MINERAL WATER SALTS COMPANY, Salmon, Idaho. Filed May 10, 1933.



For Mineral Water Salts and Stomach Tablets.
Claims use since Sept. 1, 1932.

Ser. No. 337,686. JULIUS SCHMID, New York, N. Y. Filed May 11, 1933.

RAMSES

The drawing is lined for the color blue.
For Vaginal Jelly.
Claims use since Dec. 29, 1932.

Ser. No. 337,709. P. W. RHOADES, South Sudbury, Mass. Filed May 11, 1933.

DOG-O-WAY

For Non-Injurious Animal Repellant.
Claims use since Dec. 20, 1932.

Ser. No. 337,720. ASSIED TOUMA, doing business as A. Touma, East Portchester, Conn. Filed May 10, 1933.

ATOUMA

The drawing is lined to indicate the color gold.
For Medicinal Preparation for the Relief and Treatment of Bleeding and Itching Piles.
Claims use since July 6, 1932.

Ser. No. 337,750. LOSANA PRODUCTS, LTD., Los Angeles, Calif. Filed May 12, 1933.

LOSANA TROKIES

Use of the word "Trokies" apart from the mark as shown is disclaimed.
For Antacid Medicinal Preparations for Treatment of Hyperacidity.
Claims use since Feb. 21, 1933.

Ser. No. 337,782. HERBERT H. HARRIS, New York, N. Y. Filed May 13, 1933.

De toi je chante

For Cosmetics—Namely, Extract of Perfumes, Toilet Water, Face Powder, Dusting Powder, Sachet, Lipstick, Compacts for Rouge, Powder and Lipstick, Face Cream, Cleansing Cream.
Claims use since Apr. 29, 1933.

Ser. No. 337,783. HERBERT H. HARRIS, New York, N. Y. Filed May 13, 1933.

Notre Eleanor

For Cosmetics—Namely, Extract of Perfumes, Toilet Water, Face Powder, Dusting Powder, Sachet, Lipstick, Compacts for Rouge, Powder and Lipstick, Face Cream, Cleansing Cream.
Claims use since Apr. 29, 1933.

Ser. No. 337,923. WILLIAM BIRD LEWIS, Pickens, S. C. Filed May 17, 1933.

TRADE MARK
MIST-EX

The words "Trade Mark" as shown on the drawing are not a part of the trade-mark that the applicant seeks registration of.
For Insecticide.
Claims use since Aug. 1, 1930.

Ser. No. 337,945. CALUMET REFINING CO., Chicago, Ill. Filed May 18, 1933.

liqui-swat

Trade-mark consists of the word "Liqui-swat."
For Insecticide, More Particularly a Fly Spray.
Claims use since May 9, 1933.

Ser. No. 337,993. FREDERICK E. BURNHAM, Belmont, Mass. Filed May 19, 1933.

VioGen

For Solution for Treatment of Burns.
Claims use since Feb. 20, 1933.

Ser. No. 338,132. GEORGE L. BAILL, doing business as Great Eastern Laboratories, Baltimore, Md. Filed May 23, 1933.



For Insect Spray.
Claims use since Feb. 25, 1933.

Ser. No. 338,354. THE BUROMIN COMPANY, Pittsburgh, Pa. Filed May 31, 1933.

AROMY SOFTS

For Perfumed Water Softening Chemical for Use in the Bath and for Laundering Delicate Fabrics.
Claims use since May 23, 1933.

Ser. No. 338,496. JENNIE B. PINCKNEY JONES, New York, N. Y. Filed June 3, 1933.



No claim is made to the words "Hair Grower" and "New York, N. Y." apart from the mark shown on the drawing. The standing figure is a portrait of applicant and the sitting figure is merely fanciful.
For Hair Growing Preparation.
Claims use since Oct. 18, 1928.

Ser. No. 338,601. JACOB FRISCIA, Brooklyn, N. Y. Filed June 7, 1933.

Fris

For Preparation for Growing Hair.
Claims use since Aug. 1, 1932.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 338,723. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed June 10, 1933.



For Matches.
Claims use since Mar. 1, 1933.

Ser. No. 338,724. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed June 10, 1933.

AMERICAN PATRIOT

For Matches.
Claims use since Mar. 8, 1933.

Ser. No. 338,725. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed June 10, 1933.

AMERICAN PATRIOT

For Matches.
Claims use since Mar. 8, 1933.

Ser. No. 338,726. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed June 10, 1933.

DANCING GIRL

For Matches.
Claims use since Apr. 15, 1933.

Ser. No. 338,727. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed June 10, 1933.



For Matches.
Claims use since Apr. 15, 1933.

Ser. No. 338,728. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed June 10, 1933.

GREEN DIAMOND

For Matches.
Claims use since Mar. 8, 1933.

Ser. No. 338,729. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed June 10, 1933.

GREEN DIAMOND

For Matches.
Claims use since Mar. 8, 1933.

Ser. No. 338,730. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed June 10, 1933.

GREEN GODDESS

For Matches.
Claims use since October, 1927.

Ser. No. 338,731. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed June 10, 1933.



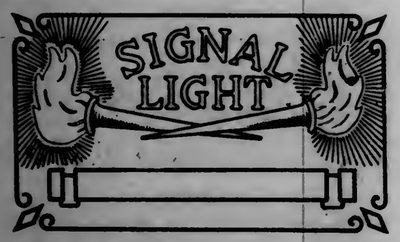
For Matches.
Claims use since Jan. 19, 1933.

Ser. No. 338,732. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed June 10, 1933.

SIGNAL LIGHT

For Matches.
Claims use since January, 1898.

Ser. No. 338,733. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed June 10, 1933.



For Matches.
Claims use since Feb. 13, 1933.

Ser. No. 338,734. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed June 10, 1933.

UNCLE SAM

For Matches.
Claims use since May, 1904.

Ser. No. 338,735. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed June 10, 1933.



For Matches.
Claims use since Mar. 29, 1933.

CLASS 12

Construction Materials

Ser. No. 338,379. STRUCTURAL GYPSUM CORPORATION, New York, N. Y. Filed May 31, 1933.

ZENITHERM

For Durable Fire-Resistant and Waterproof Magnesite Composition Material for Interior or Exterior Walls, Floors, Bases, Stair Treads, Risers, Strings, Mouldings, Door Saddles, Solid Corner Pieces, Soffits, and the Like.
Claims use since 1914.

Ser. No. 338,412. HAMMERMILL PRODUCTS, INC., Erie, Pa. Filed June 1, 1933.

PERMEX

For Composition Flooring.
Claims use since May 2, 1933.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 338,396. BENNETT FIREPLACE CORPORATION, Norwich, N. Y. Filed June 1, 1933.

FLEXSCREEN

For Fireplace Screen.
Claims use since May 18, 1933.

Ser. No. 338,694. GOLDEN GATE MANUFACTURING COMPANY, New York, N. Y. Filed June 9, 1933.

GOLDEN GATE

For Valves for Kegs, Barrels, and Other Packages for Beer, Ale, and Other Liquids; and Faucets, Keys, Vents, Couplings, and Connections Used with Such Valves.
Claims use since Apr. 27, 1893.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 338,078. DETROIT ALLOY STEEL COMPANY, Detroit, Mich. Filed May 22, 1933.

DASCOLOY

For Cast Steel and Steel Castings.
Claims use since Jan. 24, 1933.

CLASS 15

Oils and Greases

Ser. No. 336,329. LUBRAA OIL CORPORATION, Brooklyn, N. Y. Filed Apr. 1, 1933.

LUVOHL

For Upper Motor Lubricants.
Claims use since Mar. 21, 1933.

Ser. No. 336,426. CONTINENTAL OIL COMPANY, Ponca City, Okla. Filed Apr. 5, 1933.

DEMAND

For Gasoline, Kerosene, Motor Fuel Oils, Fuel Oil, and Lubricating Oils and Greases.
Claims use since Mar. 7, 1933.

Ser. No. 337,801. THE OHIO OIL CO., Findlay, Ohio. Filed May 13, 1933.



No claim being made to the exclusive use of the words "Products", "Best In The Long Run", without, however, waiving applicant's common law right to the use of these words to form the complete mark, the drawing being lined to indicate the color orange.
For Gasoline, Fuel Oil and Motor Lubricating Oils and Greases.
Claims use since Dec. 10, 1930.

Ser. No. 337,802. THE OHIO OIL CO., Findlay, Ohio. Filed May 13, 1933.



No claim being made to the exclusive use of the words "Best In The Long Run" apart from the mark as shown, without, however, waiving applicant's common law right to the use of these words to form the complete mark, the drawing being lined to indicate the colors orange, green, and black.
For Gasoline, Fuel Oil, and Motor Lubricating Oils and Greases.
Claims use since 1923.

Ser. No. 338,304. ALLIED PETROLEUM CORPORATION, Warren, Pa. Filed May 29, 1933.

PENN-MANOR.

For Lubricating Oils.
Claims use since May 17, 1933.

CLASS 17

Tobacco Products

Ser. No. 326,705. BROWN & WILLIAMSON TOBACCO CORPORATION, Louisville, Ky. Filed May 3, 1932.



The drawing is lined for the colors yellow, red, and blue. However, the representation of a particular color is disclaimed apart from the mark shown. The words "Cigarette Tobacco" and "It's Blended" are not claimed apart from the mark shown.
For Cigarette Tobacco.
Claims use since Feb. 18, 1931.

Ser. No. 335,154. DUBLIN BROTHERS, Boston, Mass. Filed Feb. 20, 1933.



The portrait in the trade-mark is fanciful.
For Cigarettes.
Claims use since Oct. 8, 1932.

Ser. No. 337,924. M. & N. CIGAR MANUFACTURERS, INC., Cleveland, Ohio. Filed May 17, 1933.



The horizontal and vertical double hatching indicates the color yellow, while the diagonal double hatching indicates gold.
For Cigars.
Claims use since Apr. 6, 1933.

Ser. No. 338,536. JOSE PATIXO, Tampa, Fla. Filed June 5, 1933.



The drawing is lined for red, yellow, and blue.
For Cigars.
Claims use since Apr. 15, 1933.

Ser. No. 338,552. THE AXTON-FISHER TOBACCO CO., Louisville, Ky. Filed June 6, 1933.

HEAD PLAY

For Cigarettes.
Claims use since May 31, 1933.

Ser. No. 338,584. A. SIEGEL & SONS INC., New York, N. Y. Filed June 6, 1933.

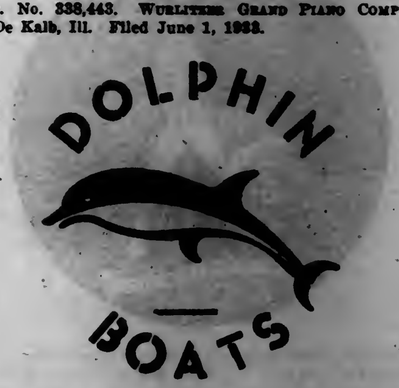
GOLDEN DAWN

For Cigars.
Claims use since Oct. 4, 1928.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 338,443. WURLITZER GRAND PIANO COMPANY, De Kalb, Ill. Filed June 1, 1933.



No claim is made to the word "Boats" apart from the mark as shown on the drawing.
For Boats—Namely, Canoes, Row Boats, Sail Boats, and Boats to Which Outboard Motors may be Attached.
Claims use since Mar. 10, 1933.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 337,105. AIR-WAY ELECTRIC APPLIANCE CORPORATION, Toledo, Ohio. Filed Apr. 24, 1933.

Quick-up

For Electric Vacuum Cleaners and Parts Thereof.
Claims use since Mar. 7, 1933.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 333,628. CERVELLO & RODRIGUEZ, doing business as Nic Projector Corporation, New York, N. Y. Filed Dec. 30, 1932.



No claim is made herein to the representation of a label, per se.
For Toy Motion Picture Projector.
Claims use since Sept. 28, 1932.

Ser. No. 335,963. PHILIP JOHN KNORPP, Brooklyn, N. Y. Filed Mar. 22, 1933.

ROBOGO

For an Outdoor and Indoor Game Played with Standards and Substantially Circular Rings, Bags for Carrying the Game and Accessories for Said Game.
Claims use since Sept. 28, 1932.

Ser. No. 337,932. ROCK-OLA MFG. CORPORATION, Chicago, Ill. Filed May 17, 1933.

JIG-SAW

For Coin Controlled, Ball Projecting Amusement Device.
Claims use since Apr. 25, 1933.

Ser. No. 338,414. HOGE MANUFACTURING COMPANY, New York, N. Y. Filed June 1, 1933.



For Toy Automobiles and Other Toy Vehicles.
Claims use since Jan. 25, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 336,493. THE BRISTOL AEROPLANE COMPANY LIMITED, Bristol, England. Filed Apr. 6, 1933.

AQUILA

For Aircraft Engines.
Claims use since May, 1932.

Ser. No. 338,282. CONTINENTAL BLADE CORPORATION, Brooklyn, N. Y. Filed May 27, 1933.

Dragon

For Razors and Razor Blades.
Claims use since May 19, 1933.

Ser. No. 338 365. ELLIOTT ADDRESSING MACHINE COMPANY, Cambridge, Mass. Filed May 31, 1933.

CARDVERTISER

For Addressing Machines and Stencil Printing Apparatus and Stencils for Use Therein.
Claims use since May 15, 1933.

Ser. No. 338,424. MULTIGRAPH COMPANY, Cleveland, Ohio. Filed June 1, 1933.

Multilith

For Printing Machines.
Claims use since May 23, 1933.

CLASS 24

Laundry Appliances and Machines

Ser. No. 335,501. EASTERN OUTFITTING CO. OF LOS ANGELES, CAL., Los Angeles, Whittier, Pasadena, and Huntington Park, Calif. Filed Mar. 6, 1933.



For Laundry Washing Machines.
Claims use since Jan. 1, 1931.

Ser. No. 336,999. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Apr. 20, 1933.

KENMORE

For Laundry Washing Machines and Ironing Machines.
Claims use since Nov. 29, 1927, on washing machines, and since Apr. 30, 1931, on ironers, respectively.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 338,319. THE JOHNSON MANUFACTURING COMPANY, Urbana, Ohio. Filed May 29, 1933.

HUMIDIMETER

For Instruments for Indicating Humidity.
Claims use since May 1, 1933.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 328,355. INTERNATIONAL ASSOCIATION OF MUNICIPAL ELECTRICIANS, Columbia, S. C. Filed June 28, 1932.



For Jewelry for Personal Wear, Not Including Watches, All Made of or Plated with Precious Metal.
Claims use since August, 1931.

Ser. No. 337,010. THE AMERICAN SILVER COMPANY, Bristol, Conn. Filed Apr. 21, 1933.



Applicant is owner of Reg. Nos. 40,371 and 55,017.
For Silver Plated Tableware Consisting of Spoons, Forks, Knives, and Ladles.
Claims use since Nov. 20, 1901.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 337,269. PRO-PHY-LAC-TIC BRUSH COMPANY, Northampton, Mass. Filed Apr. 28, 1933.



The background of the box is yellow having a red band diagonally across the face bearing the word "Pro-phy-lac-tic" in white; the left-hand end of the face of the box is cut out exposing a tooth-brush head; above the cut-out portion is a red arrow with the head of the arrow pointing toward the tuft on the end of the brush. Except in combination with the other features shown in the drawing, no claim is made to the representation of a box, nor to the printing appearing thereon except the trade-marks "Pro-phy-lac-tic" and "Perma-Grip" wherever they appear. Applicant is the owner of Trade-Mark No. 44,414, registered July 4, 1905, under the 10-years clause, renewed.
For Tooth Brushes.
Claims use since Jan. 27, 1933.

CLASS 31

Filters and Refrigerators

Ser. No. 335,174. JAMES SAVARESE, New York, N. Y. Filed Feb. 21, 1933.

FRIGID FLO

For Beverage Cooling and Dispensing Apparatus Sold as a Unit.
Claims use since Feb. 10, 1933.

Ser. No. 338,509. BATTIN-QUINN PAPER COMPANY, Minneapolis, Minn. Filed June 5, 1933.

KARY KOLD

No claim is made to the word "Kold" apart from the association shown on the drawing.
For Portable Refrigerators.
Claims use since Apr. 27, 1933.

Ser. No. 338,602. GLASCOCK BROTHERS MFG. CO., Muncie, Ind. Filed June 7, 1933.

Glasco

For Dispensing Coolers for Bottled Beverages.
Claims use since Apr. 1, 1933.

CLASS 32

Furniture and Upholstery

Ser. No. 337,002. HAROLD W. BENTLEY, New York, N. Y. Filed Apr. 12, 1933.

STUDY-STAND

Applicant hereby disclaims the right to the exclusive use of the word "Stand" except in connection with the mark as actually shown.
For Folding Device Which can be Carried in the Pocket When Not in Use and can be Adjusted to be Used to Support a Book so That the Book may be Held Open to be Read.
Claims use since Jan. 26, 1933.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 338,096. MATCH KING, INC., Chicago, Ill. Filed May 22, 1933.

MATCH KING

For Lamps—Namely, Pocket, Table, and Stand Lamps, Using as a Fuel Petroleum Products—Namely, Benzine, Naphtha, or Gasoline.
Claims use since September, 1932.

Ser. No. 338,437. ARTHUR V. SAMPSEL, Lafayette, Ind. Filed June 1, 1933.



For Automatic Stokers.
Claims use since May 8, 1933.

CLASS 37

Paper and Stationery

Ser. No. 321,690. MCLAURIN-JONES CO., Brookfield, Mass. Filed Dec. 2, 1931.

ATLANTIC

For Gummed Tape.
Claims use since June 7, 1929.

Ser. No. 338,188. EDMUND W. HAYES, Boston, Mass. Filed May 24, 1933.

DUO-SERVE

For Corresponding and Mailing Envelopes.
Claims use since Oct. 5, 1932.

CLASS 38

Prints and Publications

Ser. No. 338,323. JOSEPH MORTON LUBY, Chicago, Ill. Filed May 29, 1933.



For Periodical.
Claims use since Nov. 8, 1913.

CLASS 39

Clothing

Ser. No. 330,957. JOHN E. MAYNARD, doing business as Ed Maynard, Plymouth, N. H. Filed Oct. 5, 1932.

EVELEDS

For Partially Fabricated Outer Garments of Leather and Other Firm Textured Material—Namely, Coats, Vests, Trousers, Skirts, and Shoes Made of Leather or Fabric, for Men, Women, and Children.
Claims use since Sept. 7, 1932.

Ser. No. 332,871. AMERICAN NEEDLE & NOVELTY CO., Chicago, Ill. Filed Dec. 8, 1932.

Knot-Hole Gang

For Baseball Caps.
Claims use since Apr. 1, 1932.

Ser. No. 333,231. R. H. MACY & CO., INC., New York, N. Y. Filed Dec. 20, 1932.

KIL-CHIL

For Suits for Wear by Children, and Sweaters.
Claims use since Oct. 27, 1932.

Ser. No. 337,148. MORRIS GOLDMAN, doing business as M. Goldman Shoe Company, St. Louis, Mo. Filed Apr. 24, 1933.



No exclusive claim as a technical trade-mark is made to the words "Dalton" and "Superior" apart from the mark shown.
For Men's and Boys' Shoes of Leather, Fabric, and Combinations Thereof.
Claims use since Jan. 1, 1933.

Ser. No. 337,441. C. H. D. ROBBINS CO. INC., New York, N. Y. Filed May 3, 1933.

Shado-Sand

No claim is made for the word "Sand" apart from the mark shown in the drawing.
For Misses' and Ladies' Dresses.
Claims use since Mar. 9, 1932.

Ser. No. 337,820. BEST & CO., INC., New York, N. Y. Filed May 15, 1933.

amerino

For Men's, Women's, Misses', and Children's Wearing Apparel—Namely, Underwear, Sports Shirts, Bathing Suits, Sweaters, Hosiery, and Dresses Made of Knitted Fabrics.
Claims use since Apr. 24, 1933.

Ser. No. 338,133. BROOM & NEWMAN, New York, N. Y. Filed May 23, 1933.



No claim is made to the expression "The Tailored Shirt" apart from the mark as shown.
For Dress Shirts, Shorts, and Pajamas.
Claims use since May 12, 1933.

Ser. No. 338,385. JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa. Filed May 31, 1933.

WANASYLPH

For Hosiery.
Claims use since Jan. 26, 1928.

Ser. No. 338,406. THE ENRO SHIRT COMPANY, INC., Louisville, Ky. Filed June 1, 1933.

TWILLBREEZE

For Negligee and Dress Shirts.
Claims use since April, 1933.

Ser. No. 338,435. ROBERTS-WICKS COMPANY, Utica, N. Y. Filed June 1, 1933.

BALANCED

For Men's and Young Men's Overcoats, Top Coats, Raincoats, Storm Coats, Suits, Coats, Trousers, Vests, Dress Suits, Full Dress Suits, Tuxedo Suits, and Cutaway Suits.
Claims use since May 29, 1933.

Ser. No. 338,452. FASHION PARK MANUFACTURING CORPORATION, Rochester, N. Y. Filed June 2, 1933.

MOTOR CROFT

For Coats, Vests, Pants, and Overcoats for Men and Boys.
Claims use since Apr. 1, 1933.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 332,725. J. B. MARTIN COMPANY, Norwich, Conn. Filed Dec. 8, 1932.



Trade-mark consists of a pictorial representation of a black panther.
For Warp Pile Fabric in the Piece.
Claims use since May 25, 1932.

Ser. No. 334,599. COUDURIER, FRUCTUS & DESCHER, Lyon, France. Filed Feb. 3, 1933.

PAYSAN

For Velvets in the Piece.
Claims use since May 6, 1932.

Ser. No. 337,567. S. H. KRESS & CO., New York, N. Y. Filed May 6, 1933.

Nancy K

For Cotton Print Piece Goods, Woolen Print Piece Goods, Silk Print Piece Goods, and Rayon Print Piece Goods.
Claims use since Feb. 1, 1933.

Ser. No. 337,691. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed May 11, 1933.



Applicant disclaims the right to exclusive use of the words "Cloth" and "For Easy Sewing" and also the pictorial representations of a bolt of piece goods except in the association shown.
For Cotton Piece Goods.
Claims use since Apr. 1, 1933.

Ser. No. 337,953. S. H. KRESS & CO., New York, N. Y. Filed May 18, 1933.

Queen Alice

For Cotton Piece Goods.
Claims use since Feb. 1, 1933.

Ser. No. 337,955. S. H. KRESS & CO., New York, N. Y. Filed May 18, 1933.

Queen Ellen

For Cotton Piece Goods.
Claims use since Feb. 1, 1933.

Ser. No. 337,958. S. H. KRESS & CO., New York, N. Y. Filed May 18, 1933.

Virginia K

For Cotton Piece Goods.
Claims use since Feb. 1, 1933.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 338,011. H. R. MALLINSON & Co., INC., New York, N. Y. Filed May 19, 1933.

Royal-Scot

For Silk Piece Goods.
Claims use since May 1, 1933.

Ser. No. 338,179. THE B. V. D. COMPANY, INC., Baltimore, Md. Filed May 24, 1933.

B.V.D.

For Handkerchiefs.
Claims use since Apr. 21, 1933.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 333,093. THE S. S. WHITE DENTAL MANUFACTURING COMPANY, Philadelphia, Pa. Filed Dec. 14, 1932.

ALBASTONE

For Dental Plaster for Making Casts and Models Employed as an Investment, But Which in Addition Has Other Uses.
Claims use since Nov. 8, 1932.

Ser. No. 334,886. EUGENE ROYER, Lyon, France. Filed Feb. 11, 1933.

OCTOZONE

For Gas Apparatus for Medical, Surgical, Pharmaceutical, and Like Purposes.
Claims use since Nov. 4, 1931.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 335,947. STAATLICHE MINERALBRUNNEN SIEMENS ERBEN, Berlin, Germany. Filed Mar. 21, 1933.

STATE-SPRING
FACHINGEN
NATURAL MINERAL WATER
Bottled at the Spring Fachingen (Germany) under the Supervision of the State Government in its absolutely pure natural condition.
State Spring Mineral Water
FACHINGEN

All the wording appearing on the drawing with the exception of "State Spring" and "Fachingen" is disclaimed.
For Mineral Waters.
Claims use since Jan. 16, 1933.

Ser. No. 337,908. BEN-BURK, INC., Boston, Mass. Filed May 17, 1933.

FILL-ME-UP

For Non-Alcoholic, Maltless Beverages, and Syrups and Extracts for Making Same.
Claims use since Oct. 5, 1932.

Ser. No. 338,688. DUPONT PHARMACY, INC., Washington, D. C. Filed June 9, 1933.

40
BELOW

For Maltless, Non-Alcoholic Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since May 1, 1933.

Ser. No. 338,836. J. C. HERRMANN BOTTLING WORKS, Sharon, Pa. Filed June 14, 1933.

WINTON CLUB

For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and Syrups, Extracts, and Flavors Used in Making the Same.
Claims use since Sept. 2[illegible] 1932.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 335,032. PARAGUAY TEA, INC., Miami, Fla. Filed Feb. 16, 1933.

JO-LOVA

For Yerba Mate Tea.
Claims use since Mar. 24, 1932.

Ser. No. 335,917. APPLE GROWERS ASSOCIATION, Hood River, Oreg. Filed Mar. 21, 1933.

MT. HOOD

For Canned Fruit.
Claims use since Oct. 31, 1929.

Ser. No. 336,326. KEY'S CHILE PARLOR, Jacksonville, Fla. Filed Apr. 1, 1933.

KEY'S

For Canned Chile Concarne and Mexican Chile.
Claims use since 1910.

Ser. No. 336,344. FISCHER BAKING COMPANY, Newark, N. J. Filed Apr. 3, 1933.

FISCHER BAKING CO.

No claim is made to the words "Fischer Baking Co." apart from the mark shown in the drawing.
For Bread.
Claims use since Sept. 20, 1928.

Ser. No. 336,568. LEGHORN TRADING CO. INC., New York, N. Y. Filed Apr. 8, 1933.

ELTICO

For Edible Oils.
Claims use since February, 1932.

Ser. No. 337,427. JOSEPH P. HOGAN, Rochester, N. Y. Filed May 3, 1933.

Canditeria

For Candy.
Claims use since Apr. 11, 1933.

Ser. No. 337,474. LAKELAND-HIGHLANDS CO-OPERATIVE ASSOCIATION, Highlands City, Fla. Filed May 4, 1933.

NEW DEAL



For Fresh Citrus Fruits.
Claims use since Apr. 13, 1933.

Ser. No. 337,502. B & J SPECIALTIES CO. INC., Albany, N. Y. Filed May 5, 1933.

FEE BEE'S
TROUBLE SAVER

For Gingerbread Mix, Bran Muffin Mix, Devil Food Cake Mix, Layer Cake Mix, and Spice Cake Mix.
Claims use since Mar. 25, 1933.

Ser. No. 337,732. CUSHING GROCERY COMPANY, Hastings, Nebr. Filed May 12, 1933.

BETTY ANN

FLAVOR SEALED

For Tea.
Claims use since Apr. 15, 1933.

Ser. No. 337,866. UNITED LABORATORIES, LTD., Pasadena, Calif. Filed May 15, 1933.

B-T-ON

For Prepared Food Consisting of Wheat Embryo and Dry Yeast.
Claims use since Apr. 17, 1931.

Ser. No. 337,867. UNITED LABORATORIES, LTD., Pasadena, Calif. Filed May 15, 1933.

BONUHEAT

For Prepared Food Consisting of Wheat Embryo.
Claims use since Apr. 12, 1930.

Ser. No. 338,105. NOZAKI BROS. & CO., LTD., Yokohama, Japan. Filed May 22, 1933.

GEISHA

For Canned Crabs, Canned Tuna, Canned Clams, and Canned Mandarin Oranges.
Claims use since May 11, 1912, on canned crabs; since May 19, 1930, on canned tuna; since May 9, 1927, on canned clams; and since May 21, 1929, on canned mandarin oranges.

Ser. No. 338,210. WHITE-STOKES CO. INC., Chicago, Ill. Filed May 24, 1933.

MAZETTA

For Confectioner's Paste to be Used in Making Candies.
Claims use since Sept. 12, 1906.

Ser. No. 338,361. CRISTOFORO PACKING CO., San Francisco, Calif. Filed May 31, 1933.

GOLD EMPIRE

For Ravioli and Spaghetti in Sauce.
Claims use since Apr. 26, 1933.

Ser. No. 338,373. LA VERNE CO-OPERATIVE CITRUS ASSOCIATION, La Verne, Calif. Filed May 31, 1933.

Pride of La Verne

For Fresh Citrus Fruits.
Claims use since Feb. 1, 1926.

Ser. No. 338,377. MCDANIEL & SONS, Yuma, Ariz. Filed May 31, 1933.

OLD FORT YUMA

For Fresh Cantaloupes, Fresh Vegetables.
Claims use since Dec. 15, 1931.

Ser. No. 338,386. FRANK E. WATTLES, Buffalo, N. Y. Filed May 31, 1933.

SILVRGLO

For Eggs.
Claims use since Feb. 28, 1933.

Ser. No. 338,525. LION SPECIALTY COMPANY, Chicago, Ill. Filed June 5, 1933.

LIONETTES

For Candy.
Claims use since July 1, 1932.

CLASS 47

Wines

Ser. No. 338,326. MONOPOLE VINEYARDS CORPORATION, Rheims and New York, N. Y. Filed May 29, 1933.

GRANDE COUVEE

For Wines.
Claims use since May 18, 1933.

Ser. No. 338,332. MONOPOLE VINEYARDS CORPORATION, Rheims and New York, N. Y. Filed May 29, 1933.

ROYAL MONOGRAM

For Wines.
Claims use since May 18, 1933.

CLASS 48

Malt Beverages and Liquors

Ser. No. 334,270. STERLING PRODUCTS COMPANY, Evansville, Ind. Filed Jan. 23, 1933, under 10-year proviso.



For Malt Products—Namely, Beer.
Claims use since 1893.

Ser. No. 337,765. UNITED STATES BREWING CO. OF CHICAGO, Chicago, Ill. Filed May 12, 1933.

Rheingold

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Jan. 1, 1890.

Ser. No. 337,766. UNITED STATES BREWING CO. OF CHICAGO, Chicago, Ill. Filed May 12, 1933, under 10-year proviso.

SAVOY

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since June 12, 1893.

Ser. No. 337,969. RHINELAND BEVERAGE COMPANY, Port Chester, N. Y. Filed May 18, 1933.



The drawing is lined for blue and red.
For Beer with Not More Than the Legal Alcoholic Content.
Claims use since May 1, 1933.

Ser. No. 338,288. VICTOR NEUSTADTL, New York, N. Y. Filed May 27, 1933.

"Baron Münchhausen"



For Beer with Not More Than the Legal Alcoholic Content.
Claims use since Apr. 19, 1933.

Ser. No. 338,392. NOSTRAND PRODUCTS CO. INC., Brooklyn, N. Y. Filed May 29, 1933.



No claim is made to any of the notations appearing on the drawing with the exception of the words "Gold Dollar" and the corporate name of applicant, and no claim is made to the representation of a label per se.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Apr. 7, 1933.

Ser. No. 338,465. RIVERVIEW PRODUCTS, INC., Niagara Falls, N. Y. Filed June 2, 1933.



No claim is made to the words "Tis Pure."
For Malt Beverages—Namely, Beer, Porter, and Ale With Not More Than the Legal Content of Alcohol.
Claims use since January, 1893.

Ser. No. 338,487. ELK BREWING COMPANY, Kittanning, Pa. Filed June 3, 1933.



The drawing is lined for red and gold.
For Beer, Ale, and Porter.
Claims use since February, 1910.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 334,538. G. & W. RUPPERT AKTIENGESELLSCHAFT, Herischdorf I/Riesengebirge, Germany. Filed Feb. 1, 1933.



The drawing is lined for red. No claim is made to any of the words appearing on the drawing with the exception of the words "Ruppert's", "G. & W. Ruppert", and "Stonsdorfer", nor is any claim made to the representation of the outline or form of a label per se.
For Bitters, Cordials, Whisky, Rum, Gin, and Other Potable Spirits.
Claims use since Apr. 29, 1903.

Ser. No. 336,092. T. & A. MCCLELLAND LIMITED, Bladnoch, Wigtownshire, Scotland. Filed Mar. 25, 1933.

CLANROY

For Scotch Whisky.
Claims use since March, 1931.

Ser. No. 337,291. ELCO PRODUCTS CORPORATION, Chicago, Ill. Filed Apr. 29, 1933.

DuBOUCHETT

Applicant is the owner of registration No. 256,290, dated May 14, 1929.
For Cordials.
Claims use since Jan. 1, 1927.

Ser. No. 337,513. GAUTIER FRERES, Aigre, France. Filed May 5, 1933. Under 10-year proviso.



For Cognac Brandy.
Claims use since 1862.

Ser. No. 337,857. MACDONALD & MUIR, Leith, Scotland. Filed May 15, 1933.



No claim is made to the exclusive use of the words "Liqueur Scots Whisky, Leith, Scotland," and "Proprietors."
For Scotch Whisky.
Claims use since March, 1924.

Ser. No. 338,378. THE SHERWOOD DISTILLING AND DISTRIBUTING COMPANY, Baltimore, Md. Filed May 31, 1933.



No claim is made to the name "Wilson" except in the association shown on the drawing.
For Distilled Liquors, Particularly Whiskey.
Claims use since Jan. 3, 1927.

Ser. No. 338,432. M. P. POLLEN & ZOON, Rotterdam, Netherlands. Filed June 1, 1933.



No claim is made to the words "Brand," "Distillers," and "Rotterdam."
For Gin, Brandy, Whiskey, and Liqueurs.
Claims use since October, 1910.

Ser. No. 338,616. REID, WRIGHT & HOLLOWAY (DISTILLERS) LIMITED, London, England. Filed June 7, 1933.



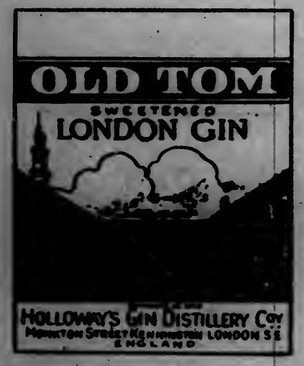
All wording save "Holloway's Gin Distillery Coy" and "London in 1630" is disclaimed apart from the mark as shown.
For Gin.
Claims use since Dec. 14, 1921.

Ser. No. 338,617. REID, WRIGHT & HOLLOWAY (DISTILLERS) LIMITED, London, England. Filed June 7, 1933.



No claim is made to the words "Special Liqueur Scotch Whisky" apart from the mark as shown.
For Scotch Whisky.
Claims use since Feb. 8, 1927.

Ser. No. 338,618. REID, WRIGHT & HOLLOWAY (DISTILLERS) LIMITED, London, England. Filed June 7, 1933.

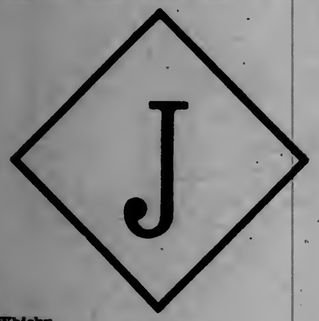


All wording save "Holloway's Gin Distillery Coy" and "Exchange in 1844" is disclaimed apart from the mark as shown.

For Gin.

Claims use since Dec. 5, 1921.

Ser. No. 338,657. WILLIAM JAMESON & CO. LTD., London, England. Filed June 8, 1933.



For Whisky.

Claims use since Nov. 23, 1874.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 336,985. HOME FACILITIES, INC., Los Angeles, Calif. Filed Apr. 20, 1933.

BEAU BRUMMEL

For Hangers for Ties.

Claims use since August, 1932.

Ser. No. 338,563. JEREMIAH FITZPATRICK, East Weymouth, Mass. Filed June 6, 1933.

REVIVO

For Lasts for Boots and Shoes.

Claims use since May 8, 1933.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 18, 1933

304,693. WHISKY. JOHN & ROBERT HARVEY & CO. LIMITED, Glasgow, Scotland.
Filed February 18, 1933. Serial No. 335,092. PUBLISHED MAY 9, 1933. Class 49.

304,694. CIGARS. PAXTON AND GALLAGHER CO., Omaha, Nebr.
Filed March 20, 1933. Serial No. 335,879. PUBLISHED MAY 2, 1933. Class 17.

304,695. WORD BUILDING GAMES AND WORD BUILDING PUZZLES. THE PA PRO COMPANY, Utica, N. Y.
Filed March 20, 1933. Serial No. 335,877. PUBLISHED MAY 2, 1933. Class 22.

304,696. FLOOR AND WALL CLEANER AND LIQUID SOAPS. WILSON AND BUSTER, INC., Kansas City, Mo.
Filed March 20, 1933. Serial No. 335,899. PUBLISHED MAY 2, 1933. Class 4.

304,697. MILLING MACHINES. SUNDSTRAND MACHINE TOOL CO., Rockford, Ill.
Filed March 20, 1933. Serial No. 335,894. PUBLISHED MAY 9, 1933. Class 23.

304,698. CIGARETTE AND PIPE TOBACCO. RYAN-HAMPTON TOBACCO COMPANY, Louisville, Ky.
Filed March 21, 1933. Serial No. 335,914. PUBLISHED MAY 2, 1933. Class 17.

304,699. GASOLINE PRESSURE KITCHEN STOVES, HOT PLATES, CAMP STOVES, LANTERNS, RADIANT HEATERS, HEATING BURNERS, WATER HEATERS AND BLOW TORCHES. PRENTISS WABERS PRODUCTS COMPANY, Wisconsin Rapids, Wis.
Filed March 18, 1933. Serial No. 335,908. PUBLISHED MAY 9, 1933. Class 34.

304,700. CIDER. LAIRD & CO., INC., Eatontown, N. J.
Filed March 21, 1933. Serial No. 335,939. PUBLISHED MAY 9, 1933. Class 45.

304,701. LAUNDRY AND TOILET SOAP. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed March 21, 1933. Serial No. 335,928. PUBLISHED MAY 2, 1933. Class 4.

304,702. RUBBERIZED FABRICS. HAARTZ-MASON-GROWER COMPANY, Watertown, Mass.
Filed March 22, 1933. Serial No. 335,961. PUBLISHED MAY 2, 1933. Class 50.

304,703. FRESH CITRUS FRUITS. WM. WEBSTER, Fullerton, Calif.
Filed March 21, 1933. Serial No. 335,950. PUBLISHED MAY 9, 1933. Class 46.

304,704. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. NORTH AMERICAN BREWING COMPANY, Brooklyn, N. Y.
Filed March 22, 1933. Serial No. 335,967. PUBLISHED MAY 2, 1933. Class 48.

304,705. ROLLER SKATES. LOUIS MARX & COMPANY, New York, N. Y.
Filed March 22, 1933. Serial No. 335,964. PUBLISHED MAY 9, 1933. Class 22.

304,706. CHAMPAGNE AND WINES. VVE. GEORGE GOULET & CIE., Reims, France.
Filed March 22, 1933. Serial No. 335,976. PUBLISHED MAY 2, 1933. Class 47.

304,707. PLUMBER'S UNIONS AND PIPE COUPLINGS. UNITED SUPERIOR UNION COMPANY, INC., Brooklyn, N. Y.
Filed March 22, 1933. Serial No. 335,975. PUBLISHED MAY 9, 1933. Class 13.

304,708. COMPASSES. PIONEER INSTRUMENT COMPANY, INC., Brooklyn, N. Y.
Filed February 16, 1933. Serial No. 335,033. PUBLISHED MAY 2, 1933. Class 26.

304,709. COSMETIC PREPARATIONS. LEILA V. JACKSON, INC., New York, N. Y.
Filed February 16, 1933. Serial No. 335,026. PUBLISHED MAY 2, 1933. Class 6.

304,710. MACHINES, APPARATUS, AND DEVICES FOR PRODUCING, MEASURING, AND RECORDING STATICAL AND DYNAMICAL EFFECTS. DR. ARNOLD HUGGENBERGER, Zurich, Switzerland.
Filed February 17, 1933. Serial No. 335,064. PUBLISHED MAY 2, 1933. Class 26.

304,711. METAL ALLOY COMPOSED OF IRON, MOLYBDENUM, AND CHROMIUM. PACIFIC PUMP WORKS, Huntington Park, Calif.
Filed February 18, 1933. Serial No. 335,096. PUBLISHED MAY 2, 1933. Class 14.

304,712. SECTION IN A MONTHLY MAGAZINE. THE CROWELL PUBLISHING COMPANY, New York, N. Y.
Filed March 22, 1933. Serial No. 335,958. PUBLISHED MAY 2, 1933. Class 38.

304,713. PIECE GOODS, DISH CLOTHS, DOILIES, ETC. ALFRED S. EISEMAN, New York, N. Y.
Filed May 18, 1932. Serial No. 327,220. PUBLISHED APRIL 18, 1933. Class 42.

304,714. CANNED DOG FOOD, PACKED IN ONE TO FIVE POUND CONTAINERS. PEDRICK LABORATORIES INC., Tulsa and Sand Springs, Okla.
Filed May 28, 1932. Serial No. 327,563. PUBLISHED MAY 9, 1933. Class 46.

304,715. REFRIGERATORS. BARKER BROS. INCORPORATED, Los Angeles, Calif.
Filed May 9, 1932. Serial No. 326,925. PUBLISHED NOVEMBER 15, 1932. Class 31.

304,716. MALT SYRUP. BEST MALT PRODUCTS COMPANY, Chicago, Ill.
Filed May 16, 1932. Serial No. 327,128. PUBLISHED MAY 9, 1933. Class 46.

304,717. FRESH VEGETABLES. TULARE CO. ASPARAGUS GROWERS ASSN., Porterville, Calif.
Filed March 28, 1932. Serial No. 325,608. PUBLISHED MAY 9, 1933. Class 46.

304,718. ICE CREAM, WATER ICE, SHERBET, AND SIMILAR FROZEN CONFECTIONS. VOGT INSTANT FREEZERS INCORPORATED, Louisville, Ky.
Filed April 1, 1932. Serial No. 325,732. PUBLISHED MAY 2, 1933. Class 46.

304,719. FLOOR COVERINGS OF FELT, FUR, AND RUBBER, AND RUG CUSHIONS. ALLEN INDUSTRIES, INC., Detroit, Mich.
Filed March 23, 1932. Serial No. 325,394. PUBLISHED MAY 9, 1933. Class 50.

304,720. WHEAT FLOUR. ACME-EVANS CO. OF LOUISVILLE, INCORPORATED, Louisville, Ky.
Filed March 28, 1932. Serial No. 325,546. PUBLISHED MAY 9, 1933. Class 46.

304,721. CONVEYING APPARATUS OF THE SPIRAL OR HELICORD TUBE TYPE AND PARTS THEREOF. CLARK TRUCTRACTOR COMPANY, Buchanan, Mich.
Filed February 27, 1932. Serial No. 324,583. PUBLISHED MAY 2, 1933. Class 28.

304,722. FABRICS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed March 8, 1932. Serial No. 324,880. PUBLISHED APRIL 25, 1933. Class 42.

304,723. RESISTORS SUCH AS USED IN RADIO APPARATUS. INTERNATIONAL RESISTANCE COMPANY, Philadelphia, Pa.
Filed January 2, 1932. Serial No. 322,642. PUBLISHED MARCH 1, 1932. Class 21.

304,724. GARMENT RECEPTACLES IN THE FORM OF BAGS MADE OF FABRIC AND LIKE MATERIALS. VACUUMIZER MANUFACTURING CORPORATION, Rochester, N. Y.
Filed February 16, 1932. Serial No. 324,237. PUBLISHED MAY 9, 1933. Class 2.

304,725. COKE. THE KOPPERS COMPANY OF DELAWARE, Pittsburgh, Pa.
Filed December 9, 1931. Serial No. 321,957. PUBLISHED MAY 2, 1933. Class 1.

304,726. GEARS FOR USE IN FLUID PUMPS AND OTHER MECHANICAL CONSTRUCTIONS CONTAINING THEM. GEROTOR LICENSING COMPANY, Baltimore, Md.
Filed December 16, 1931. Serial No. 322,167. PUBLISHED MAY 9, 1933. Class 23.

304,727. POCKET LIGHTERS, MANUALLY OPERATED AND MADE OF BASE METAL DECORATED WITH CHROMIUM AND/OR ENAMEL. ELGIN AMERICAN MANUFACTURING CO., Elgin, Ill.
Filed December 8, 1930. Serial No. 308,724. PUBLISHED MAY 9, 1933. Class 34.

304,728. SALTED AND BUTTERED POPCORN. KARMELKORN CORPORATION, Rockford, Ill.
Filed November 2, 1931. Serial No. 320,728. PUBLISHED MAY 2, 1933. Class 46.

304,729. VANILLA FOOD FLAVORING EXTRACT. JOSEPH BURNETT CO., Boston, Mass.
Filed November 6, 1930. Serial No. 307,578. PUBLISHED MAY 9, 1933. Class 46.

304,730. CANNED STRAINED VEGETABLES, INCLUDING SPINACH, TOMATOES, CARROTS, PEAS, AND MIXED VEGETABLES. HYGEIA NURSING BOTTLE COMPANY, INC., Buffalo, N. Y.
Filed November 20, 1930. Serial No. 308,113. PUBLISHED MAY 2, 1933. Class 46.

304,731. ALMOND PASTE, COCOA, COCOANUT OIL AND BUTTER FOR FLAVORING, COCOANUT, CANNED CURRANTS, FLAVORS AND EXTRACTS FOR FOOD FLAVORING, GELATINE, HONEY, ICE CREAM POWDER, JAMS AND JELLIES, MILK POWDER, MINCE MEAT, MOLASSES, NUT MEATS, ESSENTIAL OILS FOR FOOD FLAVORING, CANNED FRUITS (ALL KINDS), PIE FILLINGS, SPICES AND SEEDS FOR FOOD FLAVORING, MARSHMALLOW POWDER, AND CANNED BLUEBERRIES. THE MAAS-KEEFE CO., St. Paul, Minn.
Filed February 15, 1929. Serial No. 279,413. PUBLISHED MAY 9, 1933. Class 46.

304,732. SWEET POTATOES IN THEIR NATURAL STATE. WIXOM BROS. Seeley, Calif.
Filed April 14, 1930. Serial No. 298,873. PUBLISHED MAY 27, 1930. Class 46.

304,733. BREAD—NAMELY, RYE, WHOLE WHEAT, AND WHITE BREAD. THE RUBEL BAKING COMPANY, Cincinnati, Ohio.
Filed September 20, 1932. Serial No. 330,522. PUBLISHED MAY 9, 1933. Class 46.

304,734. RUBBER AND FABRIC VEHICLE TIRES AND RUBBER INNER TUBES. MCCLAREN RUBBER COMPANY, Charlotte, N. C.
Filed September 23, 1932. Serial No. 330,601. PUBLISHED NOVEMBER 15, 1932. Class 35.

304,735. BREAD—NAMELY, RYE, WHOLE WHEAT, AND WHITE BREAD. THE RUBEL BAKING COMPANY, Cincinnati, Ohio.
Filed September 20, 1932. Serial No. 330,523. PUBLISHED MAY 9, 1933. Class 46.

304,736. VOLUME CONTROLS, TONE CONTROLS, AND SWITCHES, FOR USE IN CONNECTION WITH RADIO RECEIVING AND AMPLIFYING EQUIPMENT. CHICAGO TELEPHONE SUPPLY COMPANY, Elkhart, Ind.
Filed February 14, 1933. Serial No. 334,972. PUBLISHED APRIL 25, 1933. Class 21.

304,737. PEN POINTS. C. HOWARD HUNT PEN COMPANY, Camden, N. J.
Filed October 1, 1932. Serial No. 330,850. PUBLISHED MAY 9, 1933. Class 37.

304,738. WIRE ESPECIALLY ADAPTED FOR ELECTRICAL PURPOSES. DRIVER-HARRIS COMPANY, Harrison, N. J.
Filed February 15, 1933. Serial No. 334,989. PUBLISHED APRIL 25, 1933. Class 21.

304,739. COFFEE. CUBAN COFFEE MILLS, INC., Shreveport, La.
Filed February 15, 1933. Serial No. 334,986. PUBLISHED MAY 2, 1933. Class 46.

304,740. SCOTCH WHISKY. HEPBURN & ROSS, Glasgow, Scotland.
Filed February 15, 1933. Serial No. 334,906. PUBLISHED MAY 2, 1933. Class 49.

304,741. WIRE ESPECIALLY ADAPTED FOR ELECTRICAL PURPOSES. DRIVER-HARRIS COMPANY, Harrison, N. J.
Filed February 15, 1933. Serial No. 334,990. PUBLISHED APRIL 25, 1933. Class 21.

304,742. MACARONI, OLIVE OIL, MALT SYRUP, CANNED FRUITS AND VEGETABLES. SEMOLINA MACARONI COMPANY, Providence, R. I.
Filed September 16, 1932. Serial No. 330,438. PUBLISHED MAY 2, 1933. Class 46.

304,743. FLOOR WAX. JOHN R. MCCONNIFF, doing business as Kleenwax Company, San Antonio, Tex.
Filed September 2, 1932. Serial No. 330,066. PUBLISHED MAY 2, 1933. Class 16.

304,744. WHISKEY AND POTABLE SPIRITS. JOSEPH E. SEAGRAM & SONS LIMITED, Waterloo, Ontario, Canada.
Filed September 19, 1932. Serial No. 330,493. PUBLISHED DECEMBER 13, 1932. Class 49.

304,745. POTABLE SPIRITS, WHISKEY, AND LIQUORS. DISTILLERS CORPORATION LIMITED, Montreal, Quebec, Canada.
Filed September 19, 1932. Serial No. 330,470. PUBLISHED NOVEMBER 1, 1932. Class 49.

304,746. PERIODICAL PUBLICATION. NOPSTA ORIGINAL NEW ORLEANS PUBLIC SCHOOL TEACHERS' ASSOCIATION, INC., New Orleans, La.
Filed February 10, 1933. Serial No. 334,843. PUBLISHED MAY 2, 1933. Class 38.

304,747. SHAVING AID PREPARATION. HARRY C. KENNEDY, doing business as The "Slic" Shave Company, Newark, N. J.
Filed February 10, 1933. Serial No. 334,839. PUBLISHED MAY 2, 1933. Class 4.

304,748. WHISKY. MACDONALD GREENLEES LIMITED, Leith, Scotland.
Filed February 8, 1933. Serial No. 334,755. PUBLISHED MAY 9, 1933. Class 49.

304,749. POWER DEVICES COMPRISING THE COMBINATION OF A TRANSFORMER AND A RECTIFIER FOR ADAPTING CURRENT TO RADIO USE, AND PARTS THEREFOR. THE CROSLEY RADIO CORPORATION, Cincinnati, Ohio.
Filed February 11, 1933. Serial No. 334,868. PUBLISHED APRIL 25, 1933. Class 21.

304,750. MEDICINAL PREPARATION FOR THE THYROID GLAND. SÄCHSISCHES SERUMWERK AKTIENGESELLSCHAFT, Dresden, Germany.
Filed February 10, 1933. Serial No. 334,847. PUBLISHED MAY 9, 1933. Class 6.

304,751. TEA. ROYAL ESTATES TEA CO., Hoboken, N. J.
Filed February 13, 1933. Serial No. 334,930. PUBLISHED MAY 2, 1933. Class 46.

304,752. BIENNIAL PUBLICATION. THE AMERICAN SOCIETY OF REFRIGERATING ENGINEERS, New York, N. Y.
Filed February 13, 1933. Serial No. 334,899. PUBLISHED MAY 2, 1933. Class 38.

304,753. CANNED FOOD PRODUCT, COMPRISING TUNA FISH AND NOODLES. WESTGATE SEA PRODUCTS COMPANY, San Diego, Calif.
Filed February 14, 1933. Serial No. 334,970. PUBLISHED MAY 2, 1933. Class 46.

304,754. TEA. ROYAL ESTATES TEA CO., Hoboken, N. J.
Filed February 13, 1933. Serial No. 334,931. PUBLISHED MAY 2, 1933. Class 46.

304,755. INSECTICIDE. RED CIRCLE PRODUCTS CO. INC., Houston, Tex.
Filed March 24, 1933. Serial No. 336,054. PUBLISHED MAY 9, 1933. Class 6.

304,756. BOTTLE AND JAR CLOSURES. ARMSTRONG CORK & INSULATION COMPANY, Lancaster, Pa.
Filed March 23, 1933. Serial No. 336,062. PUBLISHED MAY 9, 1933. Class 50.

304,757. CARTOONS. KING FEATURES SYNDICATE, INC., New York, N. Y.
Filed March 24, 1933. Serial No. 336,043. PUBLISHED MAY 9, 1933. Class 38.

304,758. TEA. ROYAL ESTATES TEA CO., Hoboken, N. J.
Filed March 23, 1933. Serial No. 336,023. PUBLISHED MAY 9, 1933. Class 46.

304,759. PUZZLES. CALIBRON PRODUCTS, INC., West Orange, N. J.
Filed March 24, 1933. Serial No. 336,031. PUBLISHED MAY 2, 1933. Class 22.

304,760. NEWSPAPER COLUMN. THE EVENING NEWS COMPANY, Baltimore, Md.
Filed February 8, 1933. Serial No. 334,745. PUBLISHED MAY 2, 1933. Class 38.

304,761. HAIR TONIC. KURT GROPENGIESSER, Levallois-Perret, France.
Filed March 23, 1933. Serial No. 336,004. PUBLISHED MAY 9, 1933. Class 6.

304,762. ICE CREAM CONFECTION. NEWLY WEDS BAKING CO. INC., Chicago, Ill.
Filed March 25, 1933. Serial No. 336,093. PUBLISHED MAY 9, 1933. Class 46.

304,763. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. IRA T. BYRAM, Jr., doing business as The Hopfheiser Co., Washington, D. C.
Filed March 27, 1933. Serial No. 336,110. PUBLISHED MAY 2, 1933. Class 48.

304,764. TOBACCO PIPES, FILTERS, AND CIGAR AND CIGARETTE HOLDERS. S. M. FRANK & CO., INC., New York, N. Y.
Filed March 25, 1933. Serial No. 336,085. PUBLISHED MAY 9, 1933. Class 8.

304,765. WRITING PAPER. E. E. LLOYD PAPER COMPANY, Chicago, Ill.
Filed March 25, 1933. Serial No. 336,089. PUBLISHED MAY 9, 1933. Class 37.

304,766. BRANDIES, COGNAC BRANDIES, AND OTHER POTABLE DISTILLED ALCOHOLIC BEVERAGES. LUIS CABALLERO, Chipiona, Spain.
Filed March 25, 1933. Serial No. 336,074. PUBLISHED MAY 9, 1933. Class 49.

304,767. TOBACCO PIPES, CIGAR AND CIGARETTE HOLDERS AND FILTERS. S. M. FRANK & CO., INC., New York, N. Y.
Filed March 25, 1933. Serial No. 336,084. PUBLISHED MAY 9, 1933. Class 8.

304,768. SMOKING TOBACCOS. PENN TOBACCO COMPANY, Wilkes-Barre, Pa.
Filed March 29, 1933. Serial No. 336,192. PUBLISHED MAY 9, 1933. Class 17.

304,769. PLAYING CARDS. RUSSELL PLAYING CARD COMPANY, Jersey City, N. J.
Filed March 27, 1933. Serial No. 336,133. PUBLISHED MAY 9, 1933. Class 22.

304,770. PAINT OILS. PENNSYLVANIA LUBRICATING COMPANY, Pittsburgh, Pa.
Filed March 29, 1933. Serial No. 336,193. PUBLISHED MAY 9, 1933. Class 16.

304,771. MALT BEVERAGES CONTAINING NOT MORE THAN THE LEGAL PERCENTAGE OF ALCOHOL. DICK & BROTHERS QUINCY BREWERY COMPANY, doing business as Dick & Bros. Quincy Brewery Co., Quincy, Ill.
Filed March 29, 1933. Serial No. 336,179. PUBLISHED MAY 9, 1933. Class 48.

304,772. BOND PAPER. GRAHAM PAPER COMPANY, St. Louis, Mo.
Filed March 31, 1933. Serial No. 336,282. PUBLISHED MAY 9, 1933. Class 37.

304,773. METALLIC CARBIDES AND THEIR ALLOYS. FRIED. KRUPP AKTIENGESELLSCHAFT, Essen, Germany.
Filed March 31, 1933. Serial No. 336,280. PUBLISHED MAY 9, 1933. Class 14.

304,774. SAUCES OR RELISHES FOR USE WITH MEATS, FISH, EGGS, VEGETABLE SALADS, AND OTHER FOODS, ALSO INTENDED TO BE USED IN THE PREPARATION OF THOUSAND ISLAND DRESSING. H. J. HEINZ COMPANY, Pittsburgh, Pa.
Filed March 17, 1933. Serial No. 335,781. PUBLISHED MAY 2, 1933. Class 46.

304,775. TOILET PAPER. NORTHERN PAPER MILLS, Green Bay, Wis.
Filed March 31, 1933. Serial No. 336,298. PUBLISHED MAY 9, 1933. Class 37.

304,776. EMULSIFYING APPARATUS, SUCH, FOR EXAMPLE, AS THAT USED PARTICULARLY IN THE TREATMENT OF DAIRY PRODUCTS. HAROLD G. MACCHESNEY, New York, N. Y.
Filed March 17, 1933. Serial No. 335,786. PUBLISHED MAY 9, 1933. Class 23.

304,777. SHEET METAL MECHANICAL TOYS. KINGSBURY MANUFACTURING COMPANY, Keene, N. H.
Filed March 17, 1933. Serial No. 335,788. PUBLISHED MAY 2, 1933. Class 22.

304,778. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL CONTENT OF ALCOHOL. WALTER C. BRAUN, San Francisco, Calif.
Filed March 18, 1933. Serial No. 335,802. PUBLISHED MAY 9, 1933. Class 48.

304,779. FRANKFURTERS, WEINERS, AND SAUSAGES. LEO SEVERIN, Davenport, Iowa.
Filed March 18, 1933. Serial No. 335,799. PUBLISHED MAY 9, 1933. Class 46.

304,780. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. NORBERT J. MULLIGAN, Columbus, Ohio.
Filed March 18, 1933. Serial No. 335,830. PUBLISHED MAY 2, 1933. Class 48.

304,781. LIQUID FURNITURE POLISH. JOHN G. HAMILTON, INC., New York, N. Y.
Filed March 18, 1933. Serial No. 335,816. PUBLISHED MAY 9, 1933. Class 16.

304,782. SERIAL PUBLICATIONS. THE COLOPHON, LTD., New York, N. Y.
Filed March 20, 1933. Serial No. 335,856. PUBLISHED MAY 2, 1933. Class 38.

304,783. PERFUMES, AND ESSENTIAL OILS. USINES DE L'ALLONDON S. A., La Plaine, Switzerland.
Filed March 18, 1933. Serial No. 335,838. PUBLISHED MAY 2, 1933. Class 6.

304,784. LADIES' DRESSES, COATS, SUITS, GOWNS, AND WRAPS. ADORABLE FROCKS, INC., New York, N. Y.
Filed February 7, 1933. Serial No. 334,726. PUBLISHED APRIL 25, 1933. Class 39.

304,785. UNITARY ELECTRICAL STARTING MECHANISM FOR INTERNAL COMBUSTION ENGINES AND PARTS THEREOF AND CIRCUIT CONTROLLING MECHANISM THEREFOR, AUTOMATIC STARTER CONTROLLERS AND BACKFIRE CIRCUIT BREAKERS. ECLIPSE MACHINE COMPANY, Elmira Heights, N. Y.
Filed February 6, 1933. Serial No. 334,672. PUBLISHED APRIL 25, 1933. Class 21.

304,786. UNITARY AUTOMATIC ELECTRICAL STARTING MECHANISM FOR INTERNAL COMBUSTION ENGINES AND PARTS THEREOF AND CIRCUIT CONTROLLING MECHANISM THEREFOR, AUTOMATIC STARTER CONTROLLERS AND BACKFIRE CIRCUIT BREAKERS. ECLIPSE MACHINE COMPANY, Elmira Heights, N. Y.
Filed February 6, 1933. Serial No. 334,673. PUBLISHED APRIL 25, 1933. Class 21.

304,787. SPECIALLY PREPARED DESSERT CONTAINING HONEY AND NUTS, WITH OTHER INGREDIENTS. J. W. WATSON COMPANY, New York, N. Y.
Filed February 2, 1933. Serial No. 334,586. PUBLISHED MAY 2, 1933. Class 46.

304 788. RUGS AND CARPETS OF TEXTILE FABRICS. A. & M. KARAGHEUSIAN, INC., New York, N. Y.
Filed February 6, 1933. Serial No. 334,661. PUBLISHED APRIL 11, 1933. Class 42.

304,789. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. A. V. VICTORIUS & CO., INC., New York, N. Y.
Filed February 1, 1933. Serial No. 334,545. PUBLISHED APRIL 25, 1933. Class 39.

304,790. MEDICATED MASSAGE CREAM CONTAINING IODINE. A. MORGAN DAVIS & CO., LIMITED, London, England.
Filed February 2, 1933. Serial No. 334,571. PUBLISHED MAY 9, 1933. Class 6.

304,791. COMPOUNDED LATEX SIZING TO BE APPLIED TO THE BACKS OF RUGS, MATS, AND WOVEN FABRICS. AMERICAN CURATIX CORPORATION, Quincy, Mass.
Filed January 28, 1933. Serial No. 334,481. PUBLISHED MAY 2, 1933. Class 5.

304,792. FLEXIBLE FABRICS, COMPRISING NARROW STRIPS OF LEATHER DISPOSED IN SUBSTANTIALLY PARALLEL RELATION AND UNITING STRANDS OF TEXTILE MATERIAL EXTENDING BOTH TRANSVERSELY AND LONGITUDINALLY OF SAID STRIPS FOR USE IN THE MANUFACTURE OF ARTICLES OF APPAREL INCLUDING BOOTS AND SHOES, BELTS, COATS, HATS, AND IN THE MANUFACTURE OF BAGS. THAYER-FOSS COMPANY, Boston, Mass.
Filed January 27, 1933. Serial No. 334,414. PUBLISHED MAY 9, 1933. Class 42.

304,793. TOY ANIMALS READY TO BE STUFFED, WITH MATERIAL AND IMPLEMENTS THEREFOR. GADGET PRODUCTS CORP., New York, N. Y.
Filed January 26, 1933. Serial No. 334,420. PUBLISHED MAY 2, 1933. Class 22.

304,794. UNWROUGHT AND PARTLY WROUGHT CORROSION-RESISTING STRUCTURAL METALS. DORMAN LONG & CO., LIMITED, Middlesbrough, England.
Filed January 26, 1933. Serial No. 334,351. PUBLISHED MAY 9, 1933. Class 14.

304,795. REFRACTORY METALLIC COMPOSITIONS, INCLUDING TUNGSTEN, MOLYBDENUM, URANIUM, THORIUM, CHROMIUM, HARDENED WITH CARBON, BORON, AND/OR SILICON. TUNGSTEN ELECTRIC CORPORATION, Union City, N. J.
Filed January 27, 1933. Serial No. 334,413. PUBLISHED MAY 9, 1933. Class 14.

304,796. OPTICAL FRAMES, MOUNTINGS, AND PARTS THEREOF. CHAFFIN OPTICAL COMPANY, INC., Boston, Mass.
Filed January 25, 1933. Serial No. 334,303. PUBLISHED MAY 2, 1933. Class 26.

304,797. PAPER FOR PRINTING. OXFORD PAPER COMPANY, New York, N. Y.
Filed January 25, 1933. Serial No. 334,335. PUBLISHED MAY 9, 1933. Class 37.

304,798. FOOD MANUFACTURED ESPECIALLY FOR DOGS, FOXES, AND OTHER CARNIVORA. WALDOMAR K. CLARK, doing business as Multi-Vigor Animal Food, Millis, Mass.
Filed January 24, 1933. Serial No. 334,280. PUBLISHED MAY 9, 1933. Class 46.

304,799. CHOCOLATES, CANDIES, SALTED NUTS, AND CRYSTALLIZED FRUITS, WHICH ARE SOLD IN MIXED ASSORTMENTS. LAURENCIE'S, INC., New York, N. Y.
Filed January 21, 1933. Serial No. 334,220. PUBLISHED MAY 2, 1933. Class 46.

304,800. ART GOODS, PARTICULARLY ETCHINGS AND PICTURES. CAMILLA LUCAS, New York, N. Y.
Filed January 20, 1933. Serial No. 334,150. PUBLISHED MAY 9, 1933. Class 38.

304,801. ASSORTMENTS OF SWEETMEATS—NAMELY, TOFFEES, CHOCOLATES, CARAMELS, AND NOUGATS. A. S. WILKIN, LIMITED, Newcastle-Upon-Tyne, England.
Filed January 20, 1933. Serial No. 334,169. PUBLISHED MAY 2, 1933. Class 46.

304,802. COSMETIC PREPARATIONS. TERRI COSMETICS CORPORATION, New York, N. Y.
Filed January 18, 1933. Serial No. 334,078. PUBLISHED MAY 2, 1933. Class 6.

304,803. SPARK PLUGS. EDISON-SPLITDORF CORPORATION, West Orange, N. J.
Filed January 19, 1933. Serial No. 334,091. PUBLISHED APRIL 25, 1933. Class 21.

304,804. LUGGAGE—NAMELY, SCHOOL BAGS, BRIEF CASES, BOSTON BAGS, AND OTHER GOODS SUCH AS SO-CALLED UTILITY BAGS, BATHING-SUIT BAGS, ZIPPER CASES, PORTFOLIOS AND ENVELOPES, PENCIL-CASE BAGS. JACOB H. KLOTZ, doing business as J. Klotz & Company and Jayklo Brief Case Co., New York, N. Y.
Filed December 30, 1932. Serial No. 333,519. PUBLISHED MAY 9, 1933. Class 3.

304,805. OIL BURNERS. MORRIS SOLOMON, doing business as Federal Products Company, Hartford, Conn.
Filed January 3, 1933. Serial No. 333,616. PUBLISHED MAY 9, 1933. Class 34.

304,806. TURPENTINE, DRYERS, DRY AND READY-MIXED SHELLAC, READY-MIXED VARNISH, DRY, PASTE, AND READY-MIXED PAINTS. O. N. ROSENBERG & SON, Haverstraw, N. Y.
Filed December 22, 1932. Serial No. 333,301. PUBLISHED MAY 2, 1933. Class 16.

304,807. PARLOR BOARD GAMES PLAYED WITH PIECES, CARDS, DICE, ETC. FORTNUM & MASON, LIMITED, London, England.
Filed December 23, 1932. Serial No. 333,328. PUBLISHED MAY 9, 1933. Class 22.

304,808. FISHING, CASTING, AND TROLLING SPOON. PAUL G. BERETS, Olympia, Wash.
Filed December 13, 1932. Serial No. 333,023. PUBLISHED MAY 2, 1933. Class 22.

304,809. SHAMPOOS. EDWARD A. LA FOUNTAIN, doing business as La Fontaine, Ltd., Glendale, Calif.
Filed December 20, 1932. Serial No. 333,246. PUBLISHED MAY 2, 1933. Class 6.

304,810. SEASONINGS IN SOLID AND LIQUID FORM FOR IMPROVING SOUPS, SAUCES, GRAVIES, AND OTHER DISHES. MAGGI CO. INC., New York, N. Y.
Filed December 1, 1932. Serial No. 332,655. PUBLISHED MAY 2, 1933. Class 46.

304,811. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SIRUPS AND EXTRACTS FOR MAKING SAME. FOOTE & JENKS, INC., Jackson, Mich.
Filed December 3, 1932. Serial No. 332,718. PUBLISHED MAY 9, 1933. Class 45.

304,812. PORTABLE ELECTRIC DRILLS AND SAWS AND PORTABLE ELECTRIC MOTORS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed December 5, 1932. Serial No. 332,787. PUBLISHED APRIL 25, 1933. Class 21.

304,813. SWEET PICKLES, SOUR PICKLES, DILL PICKLES, HONEY, FRESH STRAWBERRIES, AND PEACHES PACKED IN SUGAR. CHAS. F. CATES & SONS, INC., Faison, N. C.
Filed August 24, 1932. Serial No. 329,822. PUBLISHED MAY 2, 1933. Class 46.

304,814. REFRIGERATORS. UNITED STATES RADIO & TELEVISION CORPORATION, Marion, Ind.
Filed August 27, 1932. Serial No. 329,916. PUBLISHED MAY 9, 1933. Class 31.

304,815. ICE CREAM CONES. ILLINOIS BAKING CORPORATION, Chicago, Ill.
Filed August 22, 1932. Serial No. 329,746. PUBLISHED MAY 9, 1933. Class 46.

304,816. COKE. MICHIGAN ALKALI COMPANY, Wyandotte, Mich.
Filed August 24, 1932. Serial No. 329,805. PUBLISHED MAY 9, 1933. Class 1.

304,817. HOSIERY. NELSON KNITTING COMPANY, Rockford, Ill.
Filed August 8, 1932. Serial No. 329,405. PUBLISHED NOVEMBER 29, 1932. Class 39.

304,818. FRESH CITRUS FRUIT. CANOGA CITRUS ASSOCIATION, Canoga Park, Calif.
Filed August 12, 1932. Serial No. 329,500. PUBLISHED MAY 9, 1933. Class 46.

304,819. FOOD DRINK, CONSISTING OF A FLAVORED POWDER CONTAINING CONTENTS AND EXTRACTS OF SOY-BEANS. THE PEPSODENT CO., Chicago, Ill.
Filed June 30, 1932. Serial No. 328,447. PUBLISHED MAY 9, 1933. Class 46.

304,820. LACTO-DEXTRO LUBRICANT SUPPLEMENTARY FOOD. JESSE MERCER GEHMAN, doing business as Narla Company, Paterson, N. J.
Filed July 7, 1932. Serial No. 328,712. PUBLISHED MAY 2, 1933. Class 46.

304,821. OIL STOVES, OIL BURNING WATER HEATERS, OIL RANGES, PORTABLE BAKING OVENS, RANGE BURNERS, SUCH AS FOR INSTALLATION IN COAL BURNING RANGES, COAL BURNING HEATERS, AND COAL BURNING ROOM HEATERS, WHICH RANGE BURNERS USE DISTILLATE OR FUEL OIL, GAS RANGES. FLORENCE STOVE COMPANY, Gardner, Mass.
Filed June 25, 1932. Serial No. 328,303. PUBLISHED MAY 9, 1933. Class 34.

304,822. PIANOS AND PLAYER PIANOS. LESTER PIANO COMPANY, Philadelphia, Pa.
Filed June 28, 1932. Serial No. 328,857. PUBLISHED APRIL 25, 1933. Class 36.

304,823. SWORDS, MILLING MACHINES, TAPPING MACHINES, ETC. WAFFENFABRIK SOLOTHURN AKTIENGESELLSCHAFT, Zuchwil, Switzerland.
Filed June 4, 1932. Serial No. 327,743. PUBLISHED MAY 9, 1933. Class 23.

304,824. SHORTENINGS — NAMELY, COTTONSEED OIL FOR COOKING, SALAD OILS, BUTTER OIL, COOKING OILS, EDIBLE PEANUT OIL, EDIBLE COCOANUT OIL, SPECIAL HARDENED COCOANUT OIL, OLEOMARGARINE, AND COOKING FATS. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio.
Filed June 16, 1932. Serial No. 328,037. PUBLISHED MAY 9, 1933. Class 46.

304,825. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. GLOBE BREWING CO., INC., Utica, N. Y.
Filed March 20, 1933. Serial No. 335,863. PUBLISHED MAY 9, 1933. Class 48.

304,826. SWORDS, MILLING MACHINES, TAPPING MACHINES, ETC. WAFFENFABRIK SOLOTHURN AKTIENGESELLSCHAFT, Zuchwil, Switzerland.
Filed June 4, 1932. Serial No. 327,741. PUBLISHED MAY 9, 1933. Class 23.

304,827. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. HERMAN LACKMAN, doing business as The Herman Lackman Brewing Company, Cincinnati, Ohio.
Filed March 20, 1933. Serial No. 335,868. PUBLISHED MAY 9, 1933. Class 48.

304,828. WINDOW SHADE FABRICS. JOSEPH BANCROFT & SONS COMPANY, Wilmington, Del.
Filed November 19, 1932. Serial No. 332,289. PUBLISHED APRIL 18, 1933. Class 42.

304,829. MECHANICAL TOY HORSE. THE NAMROD CORPORATION, New Brunswick, N. J.
Filed March 20, 1933. Serial No. 335,872. PUBLISHED MAY 2, 1933. Class 22.

304,830. REVOLVING GROUP CONTAINERS, COMPLETE WITH REMOVABLE SUBSTANTIALLY WEDGE-SHAPED JARS ASSEMBLED IN CIRCULAR GROUP FORMATION, FOR STORING FOODS IN REFRIGERATORS, PANTRIES, AND CUPBOARDS, AND FOR OTHER USE. SCURLOCK KONTAINERETTE CORPORATION, Chicago, Ill.
Filed November 11, 1932. Serial No. 332,075. PUBLISHED MAY 9, 1933. Class 13.

304,831. SOAPS, LEATHER DRESSING, ETC. NATIONAL OIL PRODUCTS COMPANY, Harrison, N. J.
Filed November 12, 1932. Serial No. 332,097. PUBLISHED MAY 2, 1933. Class 4.

304,832. REFINED PURE VEGETABLE OIL, USED FOR SALADS AND COOKING AND MAYONNAISE PURPOSES, IN CANS AND BARRELS. THE CAPITAL CITY PRODUCTS COMPANY, Columbus, Ohio.
Filed October 29, 1932. Serial No. 331,668. PUBLISHED MAY 9, 1933. Class 46.

304,833. POTABLE SPIRITS, WHISKEY, AND LIQUORS. DISTILLERS CORPORATION LIMITED, Montreal, Quebec, Canada.
Filed October 31, 1932. Serial No. 331,728. PUBLISHED DECEMBER 6, 1932. Class 49.

304,834. ELECTRICALLY-DRIVEN BEATING, TREATING, AND MIXING MACHINES FOR FOODSTUFFS AND WHIPPING, BEATING, MIXING, STIRRING, AND JUICE EXTRACTING ATTACHMENTS THEREFOR. THE KITCHENAID MANUFACTURING COMPANY, Troy, Ohio.
Filed October 14, 1932. Serial No. 331,259. PUBLISHED APRIL 25, 1933. Class 21.

304,835. HECTOGRAPH, TYPEWRITER, COPYING, AND WRAPPING PAPER, AND PENCIL LEADS. VIVID, INCORPORATED, Chicago, Ill.
Filed October 24, 1932. Serial No. 331,518. PUBLISHED MAY 2, 1933. Class 37.

304,836. VACUUM TUBE CONTROLLERS FOR CONTROLLING ELECTRIC MOTORS. WESTINGHOUSE ELECTRIC AND MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed January 14, 1933. Serial No. 333,958. PUBLISHED APRIL 25, 1933. Class 21.

304,837. MEASURING AND SCIENTIFIC APPARATUS—NAMELY, CURRENT METERS, VOLTMETERS, ALCOHOL-MEASURING APPARATUS, CONDENSER WATER METERS, FLUE-GAS TESTERS, WATER METERS, DEPTH INDICATORS, PHYSICAL-DEMONSTRATION APPARATUS AND INSTRUMENTS, PICTURE-PROJECTION APPARATUS, TEMPERING BATHS. AND HEAT CONTROLLERS (THERMOSTATS). SIEMENS & HALSKE AKTIENGESELLSCHAFT, Berlin-Siemensstadt, Germany.
Filed October 4, 1932. Serial No. 330,935. PUBLISHED MAY 9, 1933. Class 26.

304,838. SEASONING FOR FOOD PURPOSES. ASSOCIATED FOOD INDUSTRIES, Portland, Oreg.
Filed January 11, 1933. Serial No. 333,840. PUBLISHED MAY 9, 1933. Class 46.

304,839. SANDWICHES. HAZEL G. CRUSIUS, Lansing, Mich.
Filed January 14, 1933. Serial No. 333,923. PUBLISHED MAY 2, 1933. Class 46.

304,840. TYPEWRITER ATTACHMENTS ADAPTED TO SUPPORT STRIPS OF CONTINUOUS-FORM STATIONERY WHILE CARBON SHEETS ARE SHIFTED FROM AN ADVANCED TO A SUCCEEDING SET OF FORMS. UNITED AUTOGRAPHIC REGISTER CO., Chicago, Ill.
Filed January 9, 1933. Serial No. 333,778. PUBLISHED MAY 9, 1933. Class 23.

304,841. LIVING ROOM, DINING ROOM, ETC., FURNITURE. ERNEST H. ANDERSON, doing business as Jamestown Specialty Mfg., Jamestown, N. Y.
Filed January 10, 1933. Serial No. 333,786. PUBLISHED MAY 2, 1933. Class 32.

304,842. MALT SYRUP AND FOOD FLAVORING EXTRACTS. HARRY J. MENDLOW, doing business as Malden Malt Products Co., Malden, Mass.
Filed January 4, 1933. Serial No. 333,634. PUBLISHED MAY 2, 1933. Class 46.

304,843. EGG NOODLES. THE PFAFFMAN EGG NOODLE CO., Cleveland, Ohio.
Filed January 9, 1933. Serial No. 333,772. PUBLISHED MAY 9, 1933. Class 46.

304,844. PIECE GOODS OF SILK, RAYON, COTTON, WOOLEN, LINEN, AND MIXTURES OF SAME. CONSOLIDATED STUDIOS, INC., New York, N. Y.
Filed February 21, 1933. Serial No. 335,159. PUBLISHED APRIL 18, 1933. Class 42.

304,845. SOLE LEATHER. S. H. FRANK & CO., San Francisco, Calif.
Filed February 20, 1933. Serial No. 335,121. PUBLISHED MAY 9, 1933. Class 1.

304,846. FRUIT PRESERVES AND APPLE BUTTER. MAX AMS, INCORPORATED, New York, N. Y.
Filed February 23, 1933. Serial No. 335,183. PUBLISHED MAY 9, 1933. Class 46.

304,847. COTTON WOVEN PIECE GOODS. MAX KASHINS CO., INC., New York, N. Y.
Filed February 21, 1933. Serial No. 335,167. PUBLISHED APRIL 25, 1933. Class 42.

304,848. WHISKY, BRANDY, AND OTHER POTABLE DISTILLED LIQUORS. W. & A. GILBEY LIMITED, London, England.
Filed February 23, 1933. Serial No. 335,198. PUBLISHED MAY 9, 1933. Class 49.

304,849. OLD TOM GIN. W. & A. GILBEY LIMITED, London, England.
Filed February 23, 1933. Serial No. 335,197. PUBLISHED MAY 9, 1933. Class 49.

304,850. MEDICINAL PREPARATIONS FOR INTERNAL HUMAN USE FOR THE TREATMENT OF INDIGESTION, RHEUMATISM, TOXEMIA, COLITES, AND SIMILAR AILMENTS. KAYLENE, LIMITED, London, England.
Filed February 23, 1933. Serial No. 335,202. PUBLISHED MAY 9, 1933. Class 6.

304,851. WHISKY. W. & A. GILBEY LIMITED. London England.
Filed February 23, 1933. Serial No. 335,199. PUBLISHED MAY 9, 1933. Class 49.

304,852. SPARKLING WINES. CHR-ADT. KUPFERBERG & Co. KOMMANDITGESELLSCHAFT AUF AKTIEN, Mainz, Germany.
Filed February 24, 1933. Serial No. 335,229. PUBLISHED MAY 2, 1933. Class 47.

304,853. MANUALLY-OPERATED MOTOR STARTING SWITCHES. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed February 23, 1933. Serial No. 335,223. PUBLISHED APRIL 25, 1933. Class 21.

304,854. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. PITTSBURGH BREWING COMPANY, Pittsburgh, Pa.
Filed February 24, 1933. Serial No. 335,247. PUBLISHED MAY 2, 1933. Class 48.

304,855. TEXTILE FABRICS IN THE PIECE, MADE OF COTTON, RAYON, AND/OR COMBINATIONS OF THE SAME. W. E. MCKAY & CO., INC., New York, N. Y.
Filed February 24, 1933. Serial No. 335,242. PUBLISHED APRIL 25, 1933. Class 42.

304,856. PUZZLES, JIGSAW PICTURE PUZZLES, JIGSAW PUZZLES, AND TABLE BOARD GAMES PLAYED WITH PIECES. ARTHUR B. RAYMOND, doing business as Artray, Montclair, N. J.
Filed February 25, 1933. Serial No. 335,292. PUBLISHED MAY 2, 1933. Class 22.

304,857. CANDLE STICKS, LAMP SHADES NOT MADE OF GLASS, BUT OF SUCH MATERIALS AS SILK, LINEN, PAPER, WOOD, AND METAL; AND LAMP BASES. STEPHEN SLESINGER, INC., New York, N. Y.
Filed February 24, 1933. Serial No. 335,254. PUBLISHED MAY 2, 1933. Class 34.

304,858. MEDICINAL TABLETS, USED AS A TONIC, INVIGORATOR, VITALIZER AND ELIMINATOR. W. T. DINNEEN, doing business as Forab, Ltd., San Francisco, Calif.
Filed March 2, 1933. Serial No. 335,483. PUBLISHED MAY 2, 1933. Class 6.

304,859. JIG-SAW PUZZLES. ARTHUR B. RAYMOND, doing business as Artray, Montclair, N. J.
Filed February 25, 1933. Serial No. 335,293. PUBLISHED MAY 9, 1933. Class 22.

304,860. SAFETY RAZORS, SAFETY RAZOR BLADES, BREAD KNIVES, STEEL KNIVES, FORKS, SPOONS, SHEARS, SCISSORS, FILES, HAIR CLIPPERS, CHISELS, AND GOUGES, ALL MADE OF BASE METAL. JULIUS SCHMID, INC., New York, N. Y.
Filed February 25, 1933. Serial No. 335,297. PUBLISHED MAY 2, 1933. Class 28.

304,861. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. WILLIAM REISS, INC., New York, N. Y.
Filed February 25, 1933. Serial No. 335,294. PUBLISHED APRIL 25, 1933. Class 28.

304,862. CANDIES AND CHOCOLATES. EAGLE NUT PRODUCTS, INC., Brooklyn, N. Y.
Filed February 27, 1933. Serial No. 335,311. PUBLISHED MAY 2, 1933. Class 46.

304,863. DEVICE FOR ASSEMBLING JIG-SAW PUZZLES. NEAL G. BARNARD, Minneapolis, Minn.
Filed February 27, 1933. Serial No. 335,309. PUBLISHED MAY 2, 1933. Class 22.

304,864. METAL SPONGES, ABRASIVE SCOURING PADS, ETC. THE GRAEF-COWEN CORPORATION, Allentown, Pa.
Filed February 27, 1933. Serial No. 335,316. PUBLISHED MAY 9, 1933. Class 4.

304,865. METAL SPONGES, ABRASIVE SCOURING PADS, ETC. THE GRAEF-COWEN CORPORATION, Allentown, Pa.
Filed February 27, 1933. Serial No. 335,315. PUBLISHED MAY 9, 1933. Class 4.

304,866. BOTTLE STOPPERS. E-Z TITE RUBBER COMPANY, Seattle, Wash.
Filed February 28, 1933. Serial No. 335,354. PUBLISHED MAY 2, 1933. Class 50.

304,867. PILE FABRICS. ROSSIE VELVET COMPANY, Mystic, Conn.
Filed February 27, 1933. Serial No. 335,334. PUBLISHED MAY 9, 1933. Class 42.

304,868. SERIES OF CARTOONS. FONTAINE FOX, Manhasset, N. Y.
Filed March 2, 1933. Serial No. 335,416. PUBLISHED MAY 2, 1933. Class 38.

304,869. BUGLES, CORNETS, TRUMPETS, ALTOS, MELLOPHONES, FRENCH HORNS, BARITONES, TROMBONES, BASSES, SOUSAPHONES, SAXOPHONES, BASSET HORNS, HELICONS, SAX HORNS, SERPENT HORNS, AND TUBAS. BOHLAND & FUCHS, Graslitz, Czechoslovakia.
Filed March 2, 1933. Serial No. 335,412. PUBLISHED APRIL 25, 1933. Class 36.

304,870. FLOCK SURFACED, RUBBERIZED FABRIC, HAVING A SUEDE LIKE APPEARANCE. E. I. DUPONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed March 3, 1933. Serial No. 335,448. PUBLISHED MAY 9, 1933. Class 50.

304,871. ABRASIVE CUTTING MACHINE EXCLUSIVE OF ABRASIVE ELEMENTS. ANDREW C. CAMPBELL, INC., Bridgeport, Conn.
Filed March 3, 1933. Serial No. 335,445. PUBLISHED MAY 9, 1933. Class 23.

304,872. COIN-CONTROLLED AMUSEMENT GAME IN THE NATURE OF A VENDING MACHINE. JOHN F. MEYER, doing business as Exhibit Supply Company, Chicago, Ill.
Filed March 6, 1933. Serial No. 335,460. PUBLISHED MAY 2, 1933. Class 23.

304,873. COTTON PIECE GOODS AND DIAPERS. RIEGEL TEXTILE CORPORATION, New York, N. Y.
Filed March 3, 1933. Serial No. 335,452. PUBLISHED MAY 9, 1933. Class 42.

304,874. HOSIERY. THE NOLDE AND HORST COMPANY, Reading Pa.
Filed March 10, 1933. Serial No. 335,585. PUBLISHED APRIL 25, 1933. Class 39.

304,875. HOLLOW CLEANING IMPLEMENT CONTAINING A DETERGENT MATERIAL. THE EXPELLO CORPORATION, Dover, N. H.
Filed March 11, 1933. Serial No. 335,592. PUBLISHED MAY 9, 1933. Class 4.

304,876. COKE. DOMESTIC COKE CORPORATION, Buffalo, N. Y.
Filed March 11, 1933. Serial No. 335,591. PUBLISHED MAY 2, 1933. Class 1.

304,877. BICYCLES AND FOR AUTOMOBILE BRAKE SETS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 15, 1933. Serial No. 335,692. PUBLISHED MAY 2, 1933. Class 19.

304,878. SOLVENTS FOR CLEANING CASTINGS. G. S. BLAKESLEE & CO., Cicero, Ill.
Filed March 15, 1933. Serial No. 335,664. PUBLISHED MAY 2, 1933. Class 6.

304,879. LOOSE LEAF BINDERS. WILSON-JONES COMPANY, Chicago, Ill.
Filed March 15, 1933. Serial No. 335,708. PUBLISHED MAY 9, 1933. Class 37.

304,880. WINES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. W. SHEINKER & SON, INC., New York, N. Y.
Filed March 15, 1933. Serial No. 335,701. PUBLISHED MAY 9, 1933. Class 47.

304,881. WINES. LUIS CABALLERO, Chipiona, Spain.
Filed March 16, 1933. Serial No. 335,714. PUBLISHED MAY 9, 1933. Class 47.

304,882. DISTILLED ALCOHOLIC LIQUORS. LUIS CABALLERO, Chipiona, Spain.
Filed March 16, 1933. Serial No. 335,713. PUBLISHED MAY 9, 1933. Class 49.

304,883. GAME IN THE NATURE OF A BOWLING GAME AND PARTS THEREOF. NATIONAL SKEE-BALL COMPANY, INC., Brooklyn, N. Y.
Filed March 16, 1933. Serial No. 335,730. PUBLISHED MAY 2, 1933. Class 22.

304,884. PRINTED FOLDERS. THOMAS P. CAULEY, Buffalo, N. Y.
Filed March 16, 1933. Serial No. 335,716. PUBLISHED MAY 2, 1933. Class 38.

304,885. SULFO DERIVATIVE HAVING CLEANSING AND DETERGENT PROPERTIES. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio.
Filed March 16, 1933. Serial No. 335,736. PUBLISHED MAY 2, 1933. Class 4.

304,886. SULFO DERIVATIVE HAVING CLEANSING AND DETERGENT PROPERTIES. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio.
Filed March 16, 1933. Serial No. 335,735. PUBLISHED MAY 2, 1933. Class 4.

304,887. KIESELGUHR, INFUSORIAL EARTH, DIATOMACEOUS EARTH, FOSSIL FLOUR, AND TRIPOLI. L. A. SALOMON & BRO., New York, N. Y.
Filed March 16, 1933. Serial No. 335,742. PUBLISHED MAY 2, 1933. Class 1.

304,888. TRANSPARENT GLASSINE PAPER. RUSSELL PAPER GOODS COMPANY, Russell, Mass.
Filed March 16, 1933. Serial No. 335,741. PUBLISHED MAY 2, 1933. Class 37.

304,889. REFRIGERATORS AND PARTS THEREOF, AND REFRIGERATING SYSTEMS. SERVEL, INC., New York, N. Y.
Filed March 16, 1933. Serial No. 335,744. PUBLISHED MAY 2, 1933. Class 31.

304,890. CAN OPENERS. SCIENTIFIC PRODUCTS, INC., St. Louis, Mo.
Filed March 16, 1933. Serial No. 335,743. PUBLISHED MAY 2, 1933. Class 23.

304,891. SOAP. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed March 17, 1933. Serial No. 335,769. PUBLISHED MAY 2, 1933. Class 4.

304,892. MONTHLY PUBLICATION. AMERICAN SOCIETY OF MARINE ENGINEERS, San Francisco, Calif.
Filed March 17, 1933. Serial No. 335,758. PUBLISHED MAY 2, 1933. Class 38.

304,893. GASKETS, RUBBER HOSE, BELTING COMPOSED OF RUBBER AND FABRIC, AND BRAKE LINING. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 3, 1933. Serial No. 335,489. PUBLISHED MAY 9, 1933. Class 35.

304,894. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. GABRIEL U. JOS. SEDLMAYR SPATEN-FRANZISKANER-LEISTBRÄU A.-G. MÜNCHEN, Munich, Germany.
Filed March 17, 1933. Serial No. 335,777. PUBLISHED MAY 9, 1933. Class 48.

304,895. CONSTRUCTION AND POSTER PAPERS. KIMBERLY-CLARK CORPORATION, Neenah, Wis.
Filed March 6, 1933. Serial No. 335,511. PUBLISHED MAY 2, 1933. Class 37.

304,896. SILVERWARE CHESTS. ARLINGTON SAMPLE BOOK COMPANY, Philadelphia, Pa.
Filed March 6, 1933. Serial No. 335,493. PUBLISHED MAY 2, 1933. Class 2.

304,897. RUGS OF TEXTILE MATERIAL. SPIEGEL, MAY, STERN COMPANY, INC., Chicago, Ill.
Filed March 6, 1933. Serial No. 335,525. PUBLISHED MAY 9, 1933. Class 42.

304,898. MASSAGE MACHINES. THE WM. MEYER CO., Chicago, Ill.
Filed March 6, 1933. Serial No. 335,514. PUBLISHED MAY 9, 1933. Class 44.

304,899. BOARD TO BE USED AS A BASE UPON WHICH TO SOLVE JIG-SAW PUZZLES. JOHN B. WHITEHOUSE, New York, N. Y.
Filed March 6, 1933. Serial No. 335,536. PUBLISHED MAY 2, 1933. Class 22.

304,900. CORRECTIVE COSMETICS. FLORA WERNER, Milwaukee, Wis.
Filed March 6, 1933. Serial No. 335,535. PUBLISHED MAY 9, 1933. Class 6.

304,901. OAK CHIPS FOR COLORING AND FLAVORING BEVERAGES. IRVING H. PRITCHETT, doing business as Pritchett Brothers, Petersburg, Va.
Filed March 9, 1933. Serial No. 335,566. PUBLISHED MAY 9, 1933. Class 50.

304,902. COFFEE. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y.
Filed March 9, 1933. Serial No. 335,559. PUBLISHED APRIL 25, 1933. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

304,903. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NITTERHOUSE BROTHERS, Indianapolis, Ind. Filed Nov. 16, 1928. Serial No. 275,403.

FRIGIDIZED FISH

For Sea Foods—Namely, Fresh Fish.
Claims use since Aug. 16, 1928.

304,904. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE HARVEL CORPORATION, Newark, N. J. Filed July 13, 1929. Serial No. 287,072.

CASHELL

For Electrical Insulation Compounds and Fabrics in Liquid, Semiliquid, Paste Form, in Sheets Plain and Laminated, and in the Form of Molding Compounds, Made from Cashew Nut Shell Liquid.
Claims use since July 10, 1929.

304,905. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WHEAT CHIPS COMPANY, Spokane, Wash. Filed July 15, 1931. Serial No. 316,985.

Wheat Chips

For Cereal Breakfast Foods.
Claims use since May 1, 1925.

304,906. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARTIN MANUFACTURING COMPANY, West Newton, Mass. Filed Dec. 13, 1930. Serial No. 308,943.

NU-TONE

For Curtains and Curtain Material in the Piece Made of Cotton.
Claims use since July, 1930.

304,907. (CLASS 5. ADHESIVES.) "LIQUID METAL" LABORATORIES, LTD., now by change of name "Liquid Solder" Ltd., Chicago, Ill. Filed Apr. 25, 1932. Serial No. 326,485.

Nu-Metallic

For Adhesive Cement.
Claims use since Apr. 4, 1932.

304,908. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES E. FROSST AND COMPANY, Montreal, Quebec, Canada. Filed Oct. 26, 1931. Serial No. 320,658.

FERRO-CATALYTIC

For a Medicinal Preparation Put Up in the Form of Soluble Elastic Capsules and Used in the Treatment of Anemia.
Claims use since Mar. 31, 1930.

304,909. (CLASS 12. CONSTRUCTION MATERIALS.) FROST LUMBER INDUSTRIES, INC., Shreveport, La. Filed July 7, 1932. Serial No. 328,600.

FROST LEFT END SQUARE TRIMMED

For Lumber.
Claims use since February, 1932.

304,910. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KARMAC INC., doing business as National Signal System, Inc., Cleveland, Ohio. Filed June 6, 1932. Serial No. 327,758.

Mell-O-Tone

For Chime Signal Devices That Are Used for Annunciators Such as Door Bells, Telephone Ringers, Buzzers and the Like.
Claims use since January, 1932.

304,911. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM E. BRADLEY, doing business as Holphast Company, Newark, N. J. Filed Aug. 6, 1932. Serial No. 329,369.

HOLPHAST POWDER

For Powder for Use in Holding Artificial Teeth in the Mouth of a Person.
Claims use since November, 1931.

304,912. (CLASS 15. OILS AND GREASES.) ROBERT SIEBER OIL COMPANY, Racine, Wis. Filed July 23, 1932. Serial No. 329,028.

Nevr-Fail

For Furnace Fuel Oil.
Claims use since Oct. 28, 1930.

304,913. (CLASS 48. MALT BEVERAGES, AND LIQUORS.) A. R. MAEDE, doing business as Schwartz Company, San Francisco, Calif. Filed Oct. 11, 1932. Serial No. 331,158.

Schwartz Weiss

For Malt Beverages.
Claims use since June 1, 1932.

304,914. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y. Filed Sept. 15, 1932. Serial No. 330,359.

SINGLEDGE

For Safety Razors and Safety Razor Blades.
Claims use since May 10, 1932.

304,915. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) UNITED AMERICAN BOSCH CORPORATION, Springfield, Mass. Filed May 24, 1933. Serial No. 338,208.

AMERICAN BOSCH

For Radio Receiving Sets and Loud Speakers.
Claims use since Feb. 21, 1931.

304,916. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE E. KAHN'S SONS COMPANY, Cincinnati, Ohio. Filed Nov. 8, 1932. Serial No. 331,981.

"DAINTY" LINK

For Sausage.
Claims use since July 11, 1923.

304,917. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ROBERT BOSCH AKTIENGESELLSCHAFT, Stuttgart, Germany. Filed Apr. 19, 1933. Serial No. 336,924.

BOSCH

For Magneto-Electric and Battery Ignition Systems for Internal Combustion Engines, and Named Parts Thereof.
Claims use since 1887 on magnetos, in respect of spark plugs since 1902, in respect of ignition distributors since 1906, in respect of ignition coils since 1909, in respect of dynamos, electric starting systems for internal combustion engines, headlights and electric motors since 1918, in respect of electric lighting sets for cycles since 1923, in respect of electric horns since 1921, in respect of electromotors for windshield cleaners since 1926, and in respect of electrical mechanisms for controlling the operation of brakes since about 1929.

304,918. (CLASS 48. MALT BEVERAGES, AND LIQUORS.) THE F. & M. SCHAEFER BREWING CO., Brooklyn, N. Y. Filed May 22, 1933. Serial No. 338,113.

Schaefer

For Malt Beverages With Not More Than the Legal Alcoholic Content.
Claims use since February, 1912.

304,919. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. H. WEAVER & CO., Chicago, Ill. Filed December 30, 1932. Serial No. 333,546.

WEAVER SPECIAL

For Cantaloups and Melons.
Claims use since May 18, 1932.

304,920. (CLASS 48. MALT BEVERAGES, AND LIQUORS.) HAGEN-BECKER COMPANY, St. Paul and Duluth, Minn. Filed Apr. 1, 1933. Serial No. 336,823.

HOMA

The Perfect Brew

For Malt Beverages With Not More Than the Legal Alcoholic Content.
Claims use since Feb. 17, 1932.

TRADE-MARK REGISTRATIONS RENEWED

40,522. TRACING-PAPER. Registered June 9, 1903. KEUFFEL AND ESSER COMPANY, Hoboken, N. J., a Corporation of New Jersey. Renewed June 9, 1933.

40,692. MILK, MALTED MILK, AND FOOD PRODUCT MILK. Registered June 30, 1903. BORDEN'S CONDENSED MILK CO. Renewed June 30, 1933, to Borden Quality Inc., New York, N. Y., a Corporation of Delaware, assignee.

91,858. A PREPARATION FOR REVIVING OR REPOLISHING ALL GLAZED SURFACES. Registered June 3, 1913. WILLIAM J. DEDECK, St. Louis, Mo. Renewed June 3, 1933.

91,880. GENERATING GERMICIDAL VAPORS OR GASES FOR THERAPEUTICAL PURPOSES. Registered June 3, 1913. KNOX TERPEZONE COMPANY OF AMERICA. Renewed June 3, 1933, to Knox Terpezone Company of America, New York, N. Y., a Corporation of West Virginia, assignee.

91,922. SNAP-BUTTONS USED AS GARMENT-FASTENERS. Registered June 3, 1913. WALDES & Co., Prague-Wrschowitz, Austria-Hungary. Renewed June 3, 1933, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a Corporation of New York, assignee by mesne assignments.

91,928. CLOTHES-LINES MANUFACTURED FROM VEGETABLE FIBER. Registered June 10, 1913. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and New York, N. Y. Renewed June 10, 1933, to American Manufacturing Company, Brooklyn, N. Y., a Corporation of Massachusetts.

91,929. CLOTHES-LINES MANUFACTURED FROM VEGETABLE FIBER. Registered June 10, 1913. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and New York, N. Y. Renewed June 10, 1933, to American Manufacturing Company, Brooklyn, N. Y., a Corporation of Massachusetts.

91,930. CLOTHES-LINES MANUFACTURED FROM VEGETABLE FIBER. Registered June 10, 1913. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and New York, N. Y. Renewed June 10, 1933, to American Manufacturing Company, Brooklyn, N. Y., a Corporation of Massachusetts.

91,988. MATCHES. Registered June 10, 1913. NITEDALS TÆNDSTIKFABRIK, Gronvold, near Christiania, Norway. Renewed June 10, 1933, to Bryn-Halden & Nitedals Tændstikfabrik A/S, Bryn, near Oslo, Norway, a Corporation of Norway, assignee.

91,990. MATCHES. Registered June 10, 1913. NITEDALS TÆNDSTIKFABRIK, Gronvold, near Christiania, Norway. Renewed June 10, 1933, to Bryn-Halden & Nitedals Tændstikfabrik A/S, Bryn, near Oslo, Norway, a Corporation of Norway, assignee.

91,991. MATCHES. Registered June 10, 1913. NITEDALS TÆNDSTIKFABRIK, Gronvold, near Christiania, Norway. Renewed June 10, 1933, to Bryn-Halden & Nitedals Tændstikfabrik A/S, Bryn, near Oslo, Norway, a Corporation of Norway, assignee.

92,033. CERTAIN CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF. Registered June 17, 1913. E. C. ATKINS AND COMPANY, Indianapolis, Ind., a Corporation of Indiana. Renewed June 17, 1933.

92,129. TOOL-STEEL. Registered June 17, 1913. SANDERSON BROTHERS & NEWBOULD, LIMITED, Sheffield, England, a Corporation of Great Britain. Renewed June 17, 1933.

92,130. CERTAIN CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF. Registered June 17, 1913. SANDERSON BROTHERS & NEWBOULD, LIMITED, Sheffield, England, a Corporation of Great Britain. Renewed June 17, 1933.

92,185. ANILIN COLORS, AMMONIUM ICHTHYOSULFONATE, PHENOLPHTHALEIN, DIMETHYLAMINOANTIPYRIN, AND SACCHARIN. Registered June 24, 1913. CHEMICAL WORKS FORMERLY SANDOZ, Basel, Switzerland. Renewed June 24, 1933, to Sandoz Chemical Works, Inc., New York, N. Y., a Corporation of New York, assignee.

92,618. PERFUMED OR SCENTED HAIR-OIL. Registered July 22, 1913. THE ANGLO-INDIAN DRUG & CHEMICAL CO. Renewed July 22, 1933, to Anglo-Indian Drug and Chemical Company, Bombay, India, a Firm, assignee.

92,709. CERTAIN NAMED FOODS. Registered July 22, 1913. O. R. PIEPER. Renewed July 22, 1933, to O. R. Pieper Company, Milwaukee, Wis., a Corporation of Wisconsin, successor.

92,710. MOTOR-CARS AND AUTOMOBILES. Registered July 22, 1913. THE PIERCE-ARROW MOTOR CAR COMPANY. Renewed July 22, 1933, to The Pierce-Arrow Motor Car Company, Buffalo, N. Y., a Corporation of New York, assignee by mesne assignments.

92,968. HAMS, BACON, LARD, AND SAUSAGES. Registered August 12, 1913. FIGGE & HUTWELKER CO., Glen Cove and New York, N. Y. a Corporation of New York. Renewed August 12 1933.

92,969. HAMS, BACON, LARD, AND SAUSAGES. Registered August 12, 1913. FIGGE & HUTWELKER CO., Glen Cove and New York, N. Y., a Corporation of New York. Renewed August 12, 1933.

93,019. A MEDICINAL COMPOUND USED AS A REMEDY FOR RHEUMATISM. Registered August 12, 1913. JOSEPH J. PATER. Renewed August 12, 1933, to Alphonse J. Pater, Hamilton, Ohio, assignee by mesne assignments.

93,146. FERTILIZERS. Registered August 26, 1913. AMERICAN AGRICULTURAL CHEMICAL COMPANY. Renewed August 26, 1933, to The American Agricultural Chemical Company, New York, N. Y., a Corporation of Delaware, assignee.

93,432. WATCH-MOVEMENTS. Registered September 16, 1913. ELGIN NATIONAL WATCH COMPANY, Elgin and Chicago, Ill. Renewed September 16, 1933, to Elgin National Watch Company, Elgin, Ill., a Corporation of Illinois.

93,514. FERTILIZERS. Registered September 23, 1913. THE AMERICAN AGRICULTURAL CHEMICAL COMPANY. Renewed September 23, 1933, to The American Agricultural Chemical Company, New York, N. Y., a Corporation of Delaware, assignee.

93,846. A COMBINATION OF FLAVORING FOR CAKE-ICINGS. Registered October 21, 1913. S. GUMPERT & Co., New York, N. Y. Renewed October 21, 1933, to S. Gumpert Co. Inc., Brooklyn, N. Y., a Corporation of New York, assignee.

94,174. CERTAIN NAMED FOODS. Registered November 11, 1913. THE R. T. FRENCH COMPANY. Renewed November 11, 1933, to The R. T. French Company, Rochester, N. Y., a Corporation of Delaware, assignee by mesne assignments.

LABELS

REGISTERED JULY 18, 1933

42,400.—*Title:* AGE' IT. For Compound for Aging, Mellowing, Flavoring, and Deodorizing Beverages. GEORGE B. ALLEN, doing business as The Charpure Company, Decatur, Ga. Published June 14, 1933.

42,401.—*Title:* OAK CHIPS. For Prepared Oak Chips for Mellowing, Flavoring, and Coloring Liquids. GEORGE B. ALLEN, doing business as The Charpure Company, Decatur, Ga. Published June 8, 1933.

42,402.—*Title:* BEECH-NUT CHEESE WAFERS. For Cheese Wafers. Beech-Nut Packing Company, Canajoharie, N. Y. Published May 2, 1933.

42,403.—*Title:* BEVIER'S. For Preparation for the Treatment of the Scalp. J. N. BAVIER, Oakland, Calif. Published May 22, 1933.

42,404.—*Title:* RUBBERLIKE FLOOR COVERING. For Floor Covering. BIRD & SON, INC., East Walpole, Mass. Published May 26, 1933.

42,405.—*Title:* TRUE SHAPE. For Hosiery. JOHN BLOOD & Co., INCORPORATED, Philadelphia, Pa. Published June 14, 1933.

42,406.—*Title:* BROCKELMAN'S COUNTRYSIDE BUTTER. For Butter. BROCKELMAN BROS. INC., Worcester, Mass. Published June 3, 1933.

42,407.—*Title:* CORA. For Tomato Paste. ARTHUR J. CAPONE, New York, N. Y. Published September 15, 1933.

42,408.—*Title:* 10 YARDS ABSORBENT CHEESECLOTH. For Cheesecloth. CHICOPEE MANUFACTURING CORPORATION, New Brunswick, N. J. Published May 1, 1933.

42,409.—*Title:* 5 YARDS ABSORBENT CHEESECLOTH. For Cheesecloth. CHICOPEE MANUFACTURING CORPORATION, New Brunswick, N. J. Published May 1, 1933.

42,410.—*Title:* C & D. For Coffee. CLOSSET & DEVERS, Portland, Oreg. Published January 23, 1933.

42,411.—*Title:* DAKOTA QUEEN HONEY. For Liquid Honey. M. W. COUSINEAU, Moorhead, Minn. Published April 21, 1933.

42,412.—*Title:* DARLINGTON FINISH BUILDER. For Polish for Enamel Surfaces and the Like. GEO. W. DARLINGTON, San Pedro, Calif. Published November 16, 1932.

42,413.—*Title:* M S & CO. BRAND. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published June 9, 1932.

42,414.—*Title:* CAROLYN GIRL. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published May 31, 1933.

42,415.—*Title:* JOLLY GINGER ALE. For Ginger Ale. JOLLY MANUFACTURING COMPANY, INC., Rochester, N. Y. Published April 25, 1933.

42,416.—*Title:* KASKEY'S HONEYED CARAMEL SYRUP. For Caramel Syrup. LOUIS GEORGE KASKEY, Seattle, Wash. Published November 23, 1932.

42,417.—*Title:* KASKEY'S SOUTH AMERICAN BUTTER NUT POPCORN. For Popcorn. LOUIS GEORGE KASKEY, Seattle, Wash. Published November 23, 1932.

42,418.—*Title:* RIPPLED. For Breakfast Food. LOOSE-WILES BISCUIT COMPANY, Long Island City, N. Y. Published December 1, 1932.

42,419.—*Title:* HOTEL BARS. For Cheese. FREDERICK F. LOWENFELS & SON, New York, N. Y. Published February 20, 1933.

42,420.—*Title:* LUCKY GUM "LET'S GET 'LUCKY'." For Gum. LUCKY GUM COMPANY, Schenectady, N. Y. Published May 27, 1933.

42,421.—*Title:* MALTOP ALE. For Ale. MALTOP BREWING CO., INC., Rochester, N. Y. Published June 19, 1933.

42,422.—*Title:* SPECIAL COMBINATION CHARLES OF THE RITZ, CLEANSING COLD CREAM AND CLEANSING TISSUES. For Cleansing Cold Cream and Cleansing Tissues. MINUTE MAKE-UP COMPANY, INC., Philadelphia, Pa. Published May 1, 1933.

42,423.—*Title:* CENTURY OF PROGRESS. For Tobacco. CHRISTIAN PEPER TOBACCO COMPANY, St. Louis, Mo. Published May 25, 1933.

42,424.—*Title:* ATHLETIC RUB. For Preparation for the Relief of Rheumatic Aches and Pains, Neuralgia, and Lumbago, Sprains and Strains, Insect Bites, and Muscular Soreness Due to Athletic Exercise, Exposure, and Fatigue. S. PFEIFFER MANUFACTURING COMPANY, St. Louis, Mo. Published April 10, 1933.

42,425.—*Title:* A. A. G. For Cigars. PORTO VANA CIGAR Co., Dallastown, Pa. Published February 21, 1933.

42,426.—*Title:* MYTEE WATER SOLUBLE DISINFECTANT AND DEODORANT. For Disinfectant and Deodorant. PRUDEN CHEMICAL COMPANY, Orlando, Fla. Published June 16, 1933.

42,427.—*Title:* REAL SILK. For Hosiery. REAL SILK HOSIERY MILLS, INC., Indianapolis, Ind. Published February 1, 1931.

42,428.—*Title:* STANDARD ALE. For Ale. STANDARD BREWING COMPANY COMPANY, INC., Rochester, N. Y. Published June 19, 1933.

42,429.—*Title:* STROEHMANN'S BETTY CROCKER 13-EGG RECIPE ANGEL FOOD. For Cake. STROEHMANN BROTHERS COMPANY, Harrisburg, Pa. Published May 1, 1933.

42,430.—*Title:* HYSAN. For Antiseptic Toilet Powders. JENNIE W. WINN, doing business as The Hysan Company, Utica, N. Y. Published August 1, 1932.

42,431.—*Title:* KleanKarboN. For Carbon Paper. THE GENERAL MANIFOLD AND PRINTING COMPANY, Franklin, Pa. Published May 25, 1933.

PRINTS

REGISTERED JULY 18, 1933

14,268.—*Title:* SUCHER'S PLAY MEAT MARKET. For Meat. THE DAYTON PAPER NOVELTY CO., Dayton, Ohio. Published April 18, 1933.

14,269.—*Title:* TRANSPORTING LIPTON'S TEA FROM THE GARDENS. For Tea. THOMAS J. LIPTON, INC., Hoboken, N. J. Published April 28, 1933.

14,270.—*Title:* LUBAL. For Lubricant to be Added to Gasoline and the Gasoline After Being Treated With the Lubricant. LUBAL OF THE EAST, Charlotte, N. C. Published May 29, 1933.

14,271.—*Title:* THIS LITTLE GIRL HAS THREE PARENTS. For Pharmaceutical and Biological Products. PARKE, DAVIS & COMPANY, Detroit, Mich. Published April 4, 1933.

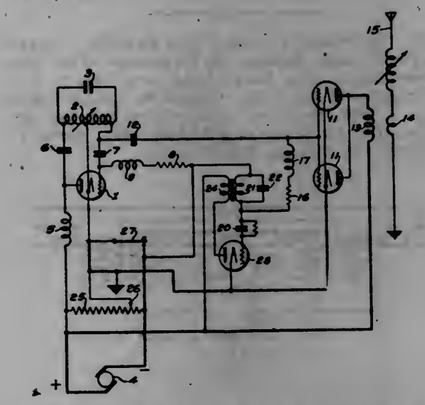
14,272.—*Title:* 26 U. S. PATENTS PROTECT SUNOCO MOTOR OIL. For Motor Oil. SUN OIL COMPANY, Philadelphia, Pa. Published May 4, 1933.

14,273.—*Title:* SHINE YOUR SHOES. For Shoe Polish. U. S. SHINE-STIK INC., New York, N. Y. Published May 22, 1933.

REISSUES

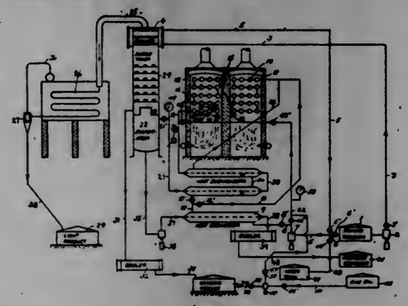
JULY 18, 1933

18,895. RADIO SIGNALING MEANS. DONALD G. LITTLE, East Springfield, and NATHAN C. DEBIBAUGH, Long-Meadow, Mass., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original No. 1,707,271, dated April 2, 1929, Serial No. 149,821, filed Nov. 22, 1926. Application for reissue filed May 6, 1930. Serial No. 450,266. 12 Claims. (Cl. 250—19.)



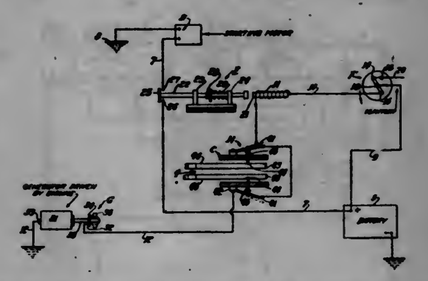
11. In a radio sending system, a radio-frequency source, an amplifier controlled thereby, an audio-frequency source operatively associated with said amplifier to exert an additional control thereon and means for simultaneously blocking the flow of all signal-producing energy in both said sources and said amplifier.

18,896. PROCESS OF CRACKING OIL. JOHN C. BLACK, Wilmington, Calif., assignor to Gasoline Products Company, Inc., Jersey City, N. J., a Corporation of Delaware. Original No. 1,715,980, dated June 4, 1929, Serial No. 142,997, filed Oct. 20, 1926. Application for reissue filed May 22, 1931. Serial No. 539,374. 11 Claims. (Cl. 196—58.)



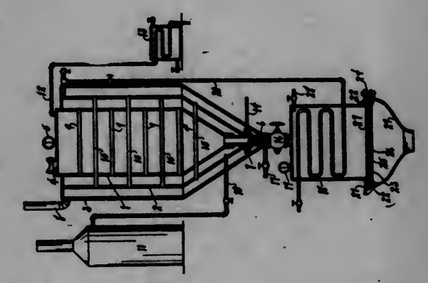
7. A process of cracking hydrocarbon oil which comprises passing the oil through a final coil section in a heating zone, supplying combustion gases from a single combustion zone to said coil section in such a manner that said gases pass first over the final passes of said coil section and introducing a cooler hydrocarbon oil into the final passes of said coil section which are first heated by the combustion gases and after the oil passing through the coil section has been raised to a cracking temperature, to prevent excessive decomposition and deposition of carbon therein.

18,897. STARTING DEVICE FOR INTERNAL COMBUSTION ENGINES. JAMES J. DEVINE, Allenton, Mo., assignor to Mary Baker Fulcher, Chicago, Ill. Original No. 1,909,855, dated May 16, 1933, Serial No. 446,484, filed Apr. 23, 1930. Application for reissue filed June 5, 1933. Serial No. 674,459. 6 Claims. (Cl. 290—38.)



6. In an electrical system for internal combustion engines including a starting motor circuit, an ignition circuit and a source of electrical energy included in said circuits; a magnetic switch in the starting motor circuit, a controlling circuit for said magnetic switch, manual means for initially jointly closing the ignition circuit and the control circuit and means for holding open said control circuit while the engine is self-operative, said closing means being operable to close the ignition circuit individually while maintaining said control circuit open.

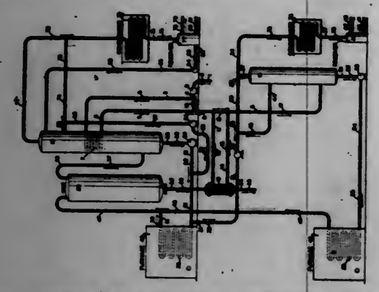
18,898. PROCESS OF RECLAMATION OF CRANK CASE OR USED OILS. LEWIS J, IRELAND, Austin, Tex., assignor, by direct and mesne assignments, to Tripoli Manufacturing Company, Wilmington, Del., a Corporation of Delaware. Original No. 1,851,432, dated Mar. 29, 1932, Serial No. 477,582, filed Aug. 25, 1930. Application for reissue filed Nov. 14, 1932. Serial No. 642,687. 6 Claims. (Cl. 196—16.)



3. The hereindescribed process for reclamation of used lubricating oils which resides in introducing the oils and a sufficient amount of acidulated clay to restore the oil to its original specification, in a confined zone and heating the oil to a temperature to drive off the more volatile non lubricating oils without cracking the lubricating oil,

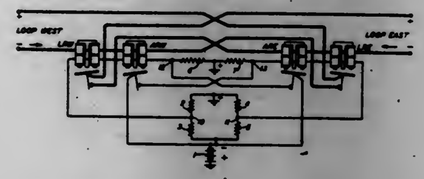
in agitating the mixture substantially entirely by passing a continuous stream of gaseous medium therethrough of such predetermined pressure to effect complete agitation and mixture of the oil and clay and to drive off said vapors by said stream of gaseous medium, then as a continuous step drawing off the mixture and filtering the same under super atmospheric gaseous pressure while still retaining a substantial quantity of the heat of the aforesaid heating step.

18,899. TREATMENT OF HYDROCARBON OIL. CHARLES H. ANGELL, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Original No. 1,807,628, dated Feb. 14, 1933, Serial No. 592,232, filed Feb. 11, 1932. Application for reissue filed Apr. 13, 1933. Serial No. 666,018. 4 Claims. (Cl. 196—48.)



1. A process of hydrocarbon oil conversion, which comprises subjecting a crude hydrocarbon oil containing fractions within the boiling range of motor fuel to fractional distillation to effect separation of the crude into components substantially within motor fuel boiling range and heavier fractions, subjecting said heavier fraction to conversion, conditions of temperature and superatmospheric pressure in a heating coil, introducing the heated material into an enlarged reaction zone wherein vaporous and non-vaporous products are separated, subjecting the vapors to fractionation whereby their relatively light desirable components are separated from intermediate conversion products, subjecting said intermediate conversion products to further conversion in a separate heating coil, introducing the heated products from said separate heating coil into said reaction zone and simultaneously supplying to said separate heating coil motor fuel components of the crude whereby their anti-knock value is materially improved under the conditions employed in said second heating coil.

18,900. TELEGRAPH REPEATING SYSTEM. FULLERTON S. KINKEAD, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Original No. 1,752,436, dated Apr. 1, 1930, Serial No. 292,701, filed July 14, 1928. Application for reissue filed July 16, 1931. Serial No. 551,269. 18 Claims. (Cl. 178—71.)



5. In a telegraph repeater, a first line section, a second line section, a first and second Wheatstone bridge, and means whereby each of said bridges controls a leg of the other of said bridges.

PLANT PATENTS

GRANTED JULY 18, 1933

70. ROSE. RICHARD DIENER, Oxnard, Calif. Filed June 6, 1932. Serial No. 615,741. 1 Claim. (Cl. 47—1.)

The climbing or trailing rose plant herein described and shown, characterized particularly by its extraordinary growth of wood, the ease with which cuttings take root, and its superior grafting qualities, all of which make it particularly suited for use as understock.

DESIGNS

JULY 18, 1933

90,302. LAMP BASE. FRANK J. ABEL, Massepequa, N. Y., assignor to Henry Hyman, Brooklyn, N. Y. Filed Dec. 2, 1932. Serial No. 46,280. Term of patent 7 years.



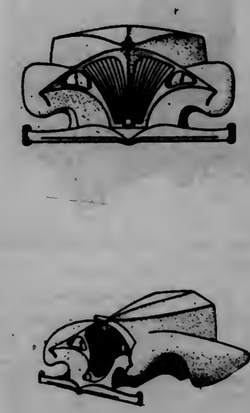
The ornamental design for a lamp base, as shown.

90,303. BARBECUE STAND. WILLIAM H. ALSTON, San Antonio, Tex. Filed Apr. 4, 1933. Serial No. 47,686. Term of patent 14 years.



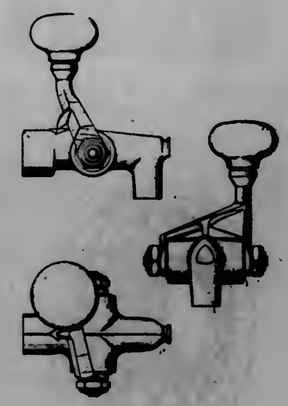
The ornamental design for a barbecue stand, as shown.

90,304. COMBINED RADIATOR, HOOD, FENDERS, AND BUMPER FOR VEHICLES. MCCLELLAND BARCLAY, Los Angeles, Calif. Filed June 20, 1932. Serial No. 44,182. Term of patent 7 years.



The ornamental design for a combined radiator, hood, fenders, and bumper for vehicles, as shown.

90,305. FAUCET. HARRY D. BINKS, Oak Park, Ill. Filed May 5, 1933. Serial No. 48,016. Term of patent 7 years.



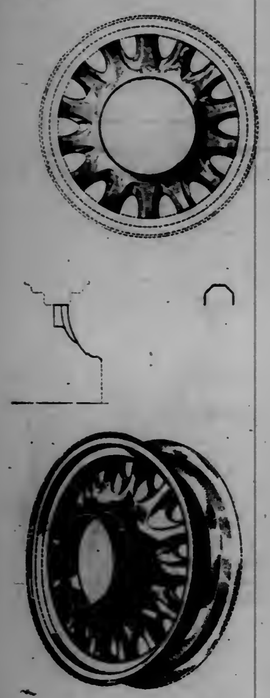
The ornamental design for a faucet, substantially as shown.

90,306. AUTOMOBILE-RADIO CONTROL UNIT. EARL C. BOOTH, Columbus, Ind., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind., a Corporation of Indiana. Filed May 22, 1933. Serial No. 48,177. Term of patent 7 years.



The ornamental design for an automobile-radio control unit, as shown.

90,307. METALLIC ARTILLERY WHEEL. TALMON A. DAVENPORT, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 4, 1932. Serial No. 43,395. Term of patent 14 years.



The ornamental design for a metallic artillery wheel, as shown.

90,308. BRUSHING AND POLISHING MACHINE. BELA DE NAGY, New York, N. Y., assignor of thirty-eight and one-fourth per cent to Nicholas M. Molnar, New York, N. Y., and twenty-two and one-half per cent to Nicholas Bruckner, Astoria, Long Island, N. Y. Filed May 12, 1933. Serial No. 48,082. Term of patent 3½ years.



The ornamental design for a brushing and polishing machine, as shown.

90,309. SERVING TRAY. JACQUES S. FRAZIN, Yonkers, N. Y. Filed May 10, 1933. Serial No. 48,061. Term of patent 3½ years.



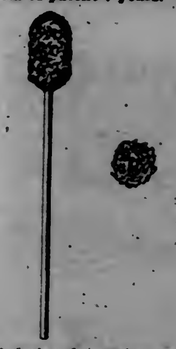
The ornamental design for a serving tray, as shown.

90,310. SIPPER. OSCAR W. FOX, Forest Hills, N. Y., assignor to Geo. Borgfeldt & Co., New York, N. Y., a Corporation of New Jersey. Filed Dec. 7, 1932. Serial No. 46,316. Term of patent 7 years.



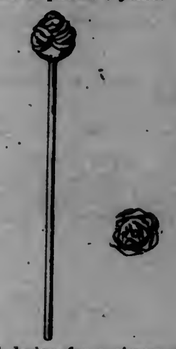
The ornamental design for a sipper, as shown and described.

90,311. SIPPER. OSCAR W. FOX, Forest Hills, N. Y., assignor to Geo. Borgfeldt & Co., New York, N. Y., a Corporation of New Jersey. Filed Dec. 7, 1932. Serial No. 46,317. Term of patent 7 years.



The ornamental design for a sipper, as shown and described.

90,312. SIPPER. OSCAR W. FOX, Forest Hills, N. Y., assignor to Geo. Borgfeldt & Co., New York, N. Y., a Corporation of New Jersey. Filed Dec. 7, 1932. Serial No. 46,318. Term of patent 7 years.



The ornamental design for a sipper, as shown and described.

90,313. TEXTILE FABRIC. ROBERT GEORGE, Paris, France, assignor to Cheney Brothers, New York, N. Y., a Corporation of Connecticut. Filed Sept. 16, 1932. Serial No. 44,859. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown and described.

90,314. TEXTILE FABRIC OR SIMILAR ARTICLE. JOSEPH M. GOTTESMAN, Paris, France, assignor to William Willheim Co., Inc., New York, N. Y. Filed Dec. 1, 1932. Serial No. 46,217. Term of patent 3½ years.



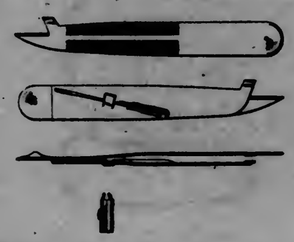
The ornamental design for a textile fabric or similar article as shown and described.

90,315. TEXTILE FABRIC. ABRAHAM NELSON HARRISON, New York, N. Y. Filed June 9, 1933. Serial No. 48,353. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown and described.

90,316. COMBINATION TOILET INSTRUMENT. GEORGE L. HAWKINS, Carrollton, Mo. Filed May 16, 1933. Serial No. 48,130. Term of patent 14 years.



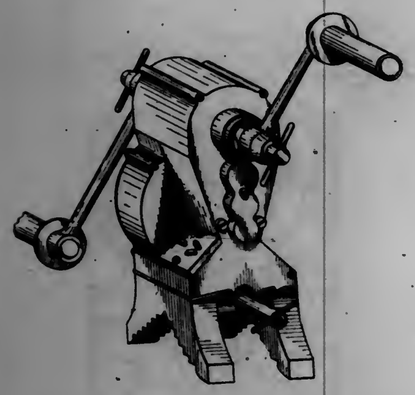
The ornamental design for a combination toilet instrument, as shown.

90,317. CHAIR. FRANKLIN P. HAYWARD, East Braintree, Mass. Filed Mar. 17, 1933. Serial No. 47,492. Term of patent 14 years.



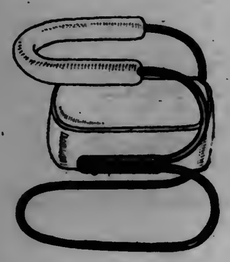
The ornamental design for a chair, substantially as shown and described.

90,318. PORTABLE ELECTRIC GENERATOR. RALPH M. HEINTZ, Palo Alto, Calif., assignor to Heintz & Kaufman, Ltd., San Francisco, Calif., a Corporation of Nevada. Filed Feb. 25, 1933. Serial No. 47,812. Term of patent 14 years.



The ornamental design for a portable electric generator, as shown and described.

90,319. CHAIR. NATHAN GEORGE HORWITT, New York, N. Y. Filed May 2, 1933. Serial No. 47,966. Term of patent 14 years.



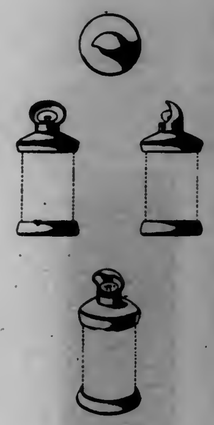
The ornamental design for a chair, as shown.

90,320. BATTERY FLASH LIGHT. HARRY T. KINGSBURY, Keene, N. H., assignor to Kingsbury Mfg. Company, Keene, N. H., a Corporation of New Hampshire. Filed Mar. 18, 1933. Serial No. 47,523. Term of patent 14 years.



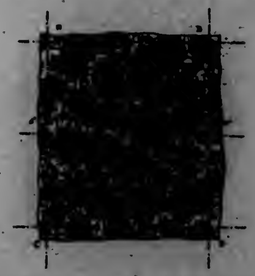
The ornamental design for a battery flash light, as shown and described.

90,321. BATTERY FLASH LIGHT. HARRY T. KINGSBURY, Keene, N. H., assignor to Kingsbury Mfg. Company, Keene, N. H., a Corporation of New Hampshire. Filed Mar. 18, 1933. Serial No. 47,524. Term of patent 14 years.



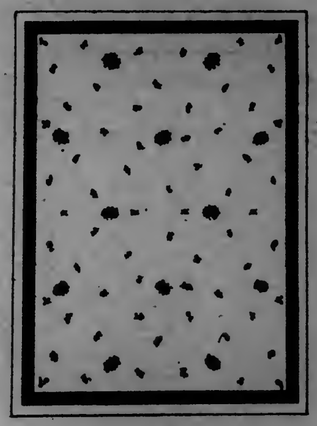
The ornamental design for a battery flash light, as shown and described.

90,322. TEXTILE FABRIC OR SIMILAR ARTICLE. ALEXANDER KOHUT, New York, N. Y., assignor to William Willheim Co., Inc., New York, N. Y. Filed Dec. 19, 1932. Serial No. 46,493. Term of patent 3½ years.



The ornamental design for a textile fabric or similar article as shown and described.

90,323. RUG. HENRY C. LA COUTURE, Kearney Township, Hudson County, N. J., assignor to Bigelow Sanford Carpet Co., Inc., a Corporation of Massachusetts. Filed Apr. 27, 1933. Serial No. 47,921. Term of patent 7 years.



The ornamental design for a rug substantially as shown.

90,324. LACE. JULES LANERSA, West Warwick, R. I., assignor to Stern Lace Co. Inc., New York, N. Y., a Corporation of New York. Filed May 20, 1933. Serial No. 48,172. Term of patent 3½ years.



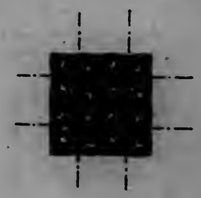
The ornamental design for lace substantially as shown.

90,325. TEXTILE FABRIC OR SIMILAR ARTICLE. JULIA LUKAS, New York, N. Y., assignor to William Willheim Co., Inc., New York, N. Y. Filed Dec. 9, 1932. Serial No. 46,337. Term of patent 3½ years.



The ornamental design for a textile fabric or similar article as shown and described.

90,326. TEXTILE FABRIC OR SIMILAR ARTICLE. JULIA LUKAS, New York, N. Y., assignor to William Willheim Co., Inc., New York, N. Y. Filed Dec. 9, 1932. Serial No. 46,339. Term of patent 3½ years.



The ornamental design for a textile fabric or similar article as shown and described.

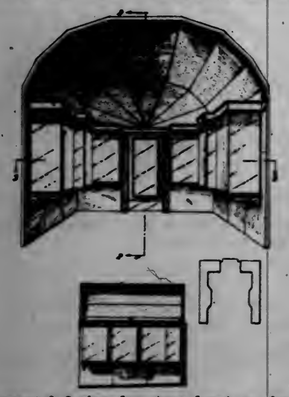
90,327. COMBINED CLOCK CASE AND DIAL. PAUL LUX, Waterbury, Conn., assignor to Lux Clock Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 9, 1933. Serial No. 48,058. Term of patent 3½ years.





The ornamental design for a combined clock case and dial as shown.

90,328. STORE FRONT. GEORGE MALCOLM, Old Greenwich, Conn., assignor to G. R. Kinney Co., Inc., New York, N. Y., a Corporation of New York. Filed June 17, 1932. Serial No. 44,120. Term of patent 14 years.



The ornamental design for store front as shown.

90,329. HAND MIRROR. LEO MARDER, Brooklyn, N. Y. Filed May 4, 1933. Serial No. 48,006. Term of patent 7 years.



The ornamental design for a hand mirror, as shown.

90,330. HAND MIRROR. LEO MARDER, Brooklyn, N. Y. Filed May 4, 1933. Serial No. 48,007. Term of patent 7 years.



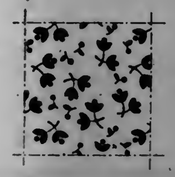
The ornamental design for a hand mirror, as shown.

90,331. HAND MIRROR. LEO MARDER, Brooklyn, N. Y. Filed May 4, 1933. Serial No. 48,008. Term of patent 7 years.



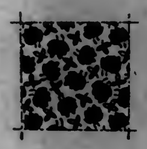
The ornamental design for a hand mirror, as shown.

90,332. TEXTILE FABRIC. EDWARD G. MEYERS, Maplewood, N. J., assignor to M. C. D. Borden & Sons, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 1, 1933. Serial No. 47,659. Term of patent 7 years.



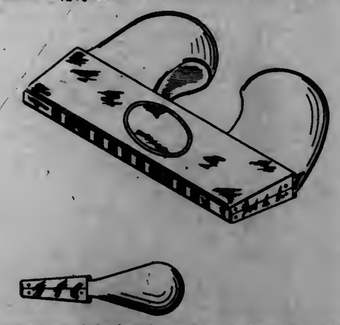
The ornamental design for a textile fabric substantially as shown.

90,333. TEXTILE FABRIC. EDWARD G. MEYERS, Maplewood, N. J., assignor to M. C. D. Borden & Sons, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 1, 1933. Serial No. 47,661. Term of patent 7 years.



The ornamental design for a textile fabric substantially as shown.

90,334. HARMONICA. BORRAH MINEVITCH, New York, N. Y. Filed May 19, 1933. Serial No. 48,159. Term of patent 3½ years.



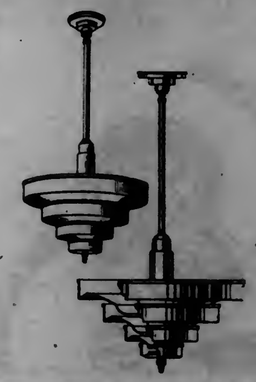
The ornamental design for a harmonica, as shown.

90,335. PICTURE FRAME. GUSTAF A. OSTLING and CARL L. GUSTAFSON, Chicago, Ill. Filed Dec. 7, 1932. Serial No. 46,319. Term of patent 7 years.



The ornamental design for a picture frame, substantially as shown.

90,336. LIGHTING FIXTURE. PETER J. PARLATO, Elmhurst, and ARTHUR R. KRAUSE, Woodhaven, N. Y. Filed Mar. 9, 1933. Serial No. 47,422. Term of patent 3½ years.



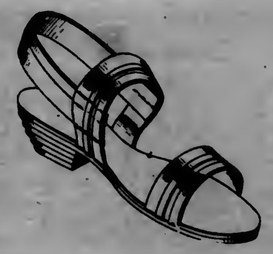
The ornamental design for a lighting fixture as shown and described.

90,337. TEXTILE FABRIC. MORRIS POLBY, Larchmont, N. Y., assignor to Bear Mill Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Filed May 24, 1933. Serial No. 48,199. Term of patent 3½ years.



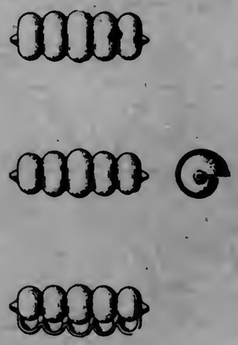
The ornamental design for a textile fabric as shown and described.

90,338. BEACH SANDAL. ANNA ROBERTS, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed May 15, 1933. Serial No. 48,124. Term of patent 14 years.



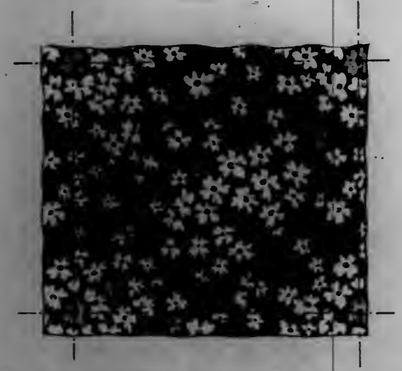
The ornamental design for a beach sandal as shown.

90,339. DOUGH PRODUCT. ANGELO RONZONI, New York, N. Y. Filed May 16, 1933. Serial No. 48,131. Term of patent 14 years.



The ornamental design for a dough product, as shown.

90,340. TEXTILE FABRIC OR SIMILAR ARTICLE. WERNER SCHMID, White Plains, N. Y., assignor to William Willheim Co., Inc., New York, N. Y. Filed Dec. 1, 1932. Serial No. 46,261. Term of patent 3½ years.



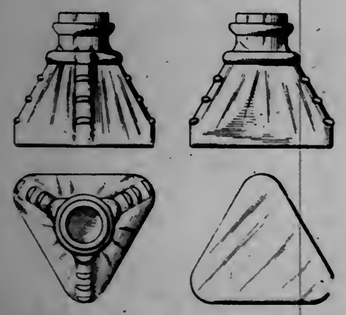
The ornamental design for a textile fabric or similar article as shown and described.

90,341. TEXTILE COVER OR SIMILAR ARTICLE OF MANUFACTURE. ADOLF SCHMITT, Greven, Germany, assignor to Mechanische Spinnerei & Weberei Greven, Hermann Biederlack & Co., Greven, Germany, a Corporation of Germany. Filed May 17, 1933. Serial No. 48,141. Term of patent 3½ years.



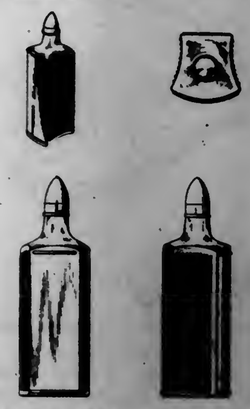
The ornamental design for a textile cover or similar article of manufacture substantially as shown.

90,342. BOTTLE OR THE LIKE. PAUL H. SCHOPPEL, New York, N. Y. Filed May 17, 1933. Serial No. 48,154. Term of patent 3½ years.



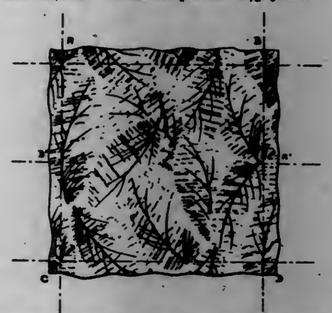
The ornamental design for a bottle or the like, as shown.

90,343. BOTTLE OR THE LIKE. PAUL H. SCHOPPEL, New York, N. Y. Filed May 17, 1933. Serial No. 48,155. Term of patent 3½ years.



The ornamental design for a bottle or the like, as shown.

90,344. TEXTILE FABRIC OR SIMILAR ARTICLE. JACK SCHWEIZER, New York, N. Y., assignor to William Willheim Co., Inc., New York, N. Y. Filed Dec. 1, 1932. Serial No. 46,266. Term of patent 3½ years.



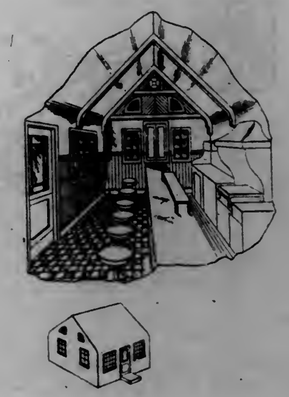
The ornamental design for a textile fabric or similar article as shown and described.

90,345. DISPLAY HOLDER. ETHYL M. SMITH, Buffalo, N. Y. Filed May 13, 1933. Serial No. 48,109. Term of patent 14 years.



The ornamental design for a display holder, as shown and described.

90,346. LUNCH HOUSE. JACOB C. STEDMAN, Memphis, Tenn. Filed Feb. 4, 1933. Serial No. 47,110. Term of patent 14 years.



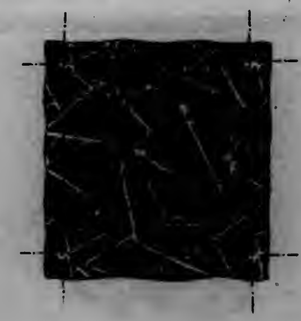
The ornamental design for a lunch house as shown and described.

90,347. STATUETTE OR SIMILAR ARTICLE. WILLIAM STEINMANN, New York, N. Y. Filed May 15, 1933. Serial No. 48,121. Term of patent 3½ years.



The ornamental design for a statuette or similar article as shown.

90,348. TEXTILE FABRIC OR SIMILAR ARTICLE. MICHELANGELO A. SUSI, New York, N. Y., assignor to William Willheim Co., Inc., New York, N. Y. Filed Dec. 19, 1932. Serial No. 46,481. Term of patent 3½ years.



The ornamental design for a textile fabric or similar article as shown and described.

90,349. MENU CARD OR SIMILAR ARTICLE. HAROLD M. WEXBERG, Chicago, Ill. Filed Feb. 4, 1933. Serial No. 47,108. Term of patent 7 years.



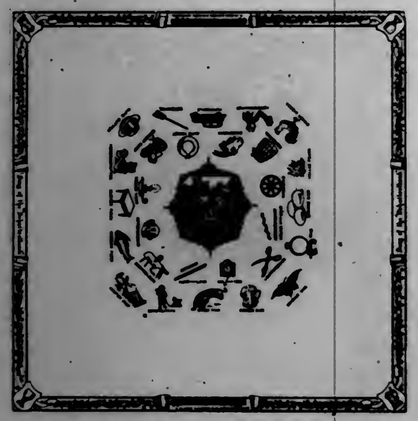
The ornamental design for a menu card or similar article, as shown.

90,350. SIGN. ROBERT M. WHITSON, La Grange, Ill. Filed May 10, 1933. Serial No. 48,065. Term of patent 7 years.



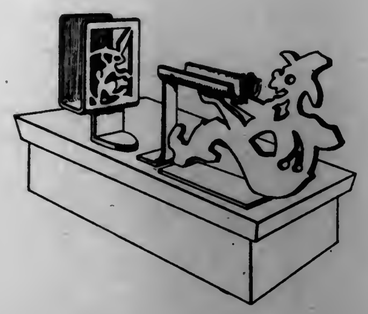
The ornamental design for a sign, as shown and described.

90,351. TABLE COVER OR SIMILAR ARTICLE. RODERICK H. WILLCOX, Columbus, Ohio., assignor to Columbus Coated Fabrics Corporation, Columbus, Ohio, a Corporation of Ohio. Filed Apr. 15, 1933. Serial No. 47,796. Term of patent 3½ years.



The ornamental design for a table cover or similar article, as shown.

90,352. COMBINATION RECEPTACLE FOR SMOKERS' ARTICLES OR SIMILAR DEVICE. JULLIEN F. WINNEMORE, Chevy Chase, Md. Filed July 11, 1932. Serial No. 44,305. Term of patent 3½ years.

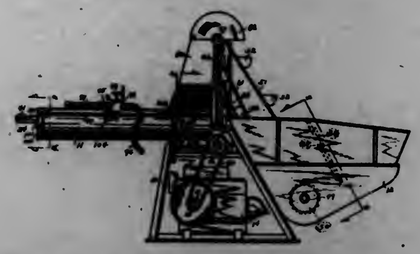


The ornamental design for a combination receptacle for smokers' articles or similar device substantially as shown.

PATENTS

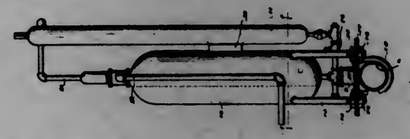
GRANTED JULY 18, 1933

1,918,234. MATERIAL MIXING MACHINE. ARTHUR W. ALLEN, Des Moines, Iowa. Filed June 18, 1931. Serial No. 545,217. 5 Claims. (Cl. 83—73.)



1. In a device of the class described, a frame, a horizontal mixing trough open at its top and end, a shaft rotatably mounted in said trough, agitating members secured to said shaft, a liquid ejecting pipe above said trough, a manually adjustable valve in communication with said pipe, a self-closing valve in communication with said pipe, a hopper, an endless rotatably mounted chain leading from said hopper to a point above said trough, buckets on said chain, a prime mover, a clutch for operatively connecting said prime mover to said chain, and a control lever for simultaneously operating said clutch and said self-closing valve.

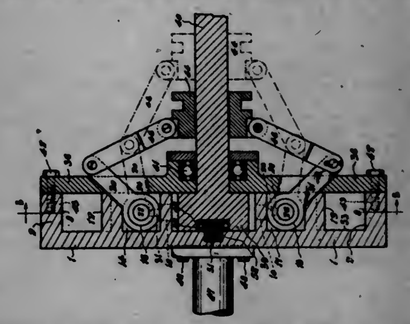
1,918,235. STEAM LUBRICATOR. FRED LEE BADGETT, Chickaska, Okla.; Billie B. Badgett administratrix of said Fred Lee Badgett, deceased. Filed July 7, 1930. Serial No. 466,211. 3 Claims. (Cl. 184—50.)



1. A mounting for a steam lubricator assembly including a lubricant reservoir comprising metal members depending from the lower side of said reservoir, a flat metal member having an area to completely underlie said reservoir and removably supported from the free ends of said first named members, and a clamp means carried at the lower side of the last named member, said clamp means being adapted for engagement about a heated part of a steam power installation whereby heat will be transmitted direct from the said part to said reservoir to maintain the lubricant content of the latter in a usable fluid state at all times.

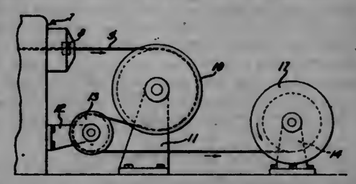
1,918,236. HYDRAULIC ROTARY POWER TRANSMITTER. WILLIAM W. BAKER, Cincinnati, Ohio. Filed Mar. 31, 1931. Serial No. 526,605. 1 Claim. (Cl. 192—61.)

A hydraulic rotary power transmitter comprising, in combination, a cylindrical housing, a fluid carried within said housing, a central body portion cast integral with the housing, the ends of which are spaced apart from the inner periphery of said housing, a plurality of aligned communicating gear receiving chambers in said body portion, comprising two end chambers and a central gear chamber, fluid passageways intersecting said body portion and gear chamber, respectively, an idler gear rotatably mounted within each of said end chambers, a driven gear mounted within said central gear chamber and in permanent mesh with each of the idler gears, a driven shaft rigidly connected to said driven gear, rotary valves for opening and closing said passageways, arms integrally attached to said rotary valves and means for operating said arms to move said valves from open to closed position comprising a yoke slidably mounted upon said driven shaft, forked links pivotally connecting said yoke with said arm, weights integrally formed with said forked links, and a spring encircling said driven shaft and



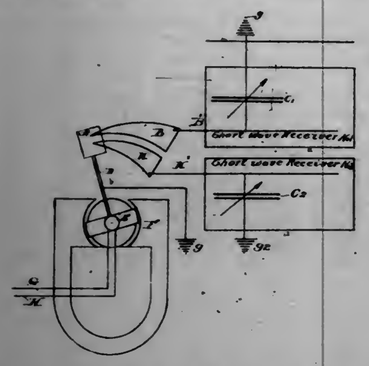
adapted to normally hold said weights in contracted position to close said valves whereby when the latter are in closed position said passageways are shut off and a portion of said fluid is trapped within said gear receiving chambers, thereby locking the idler gears with said central gear, thus rigidly connecting said driven shaft with said housing and whereby when said valves are moved to open position to open said passageways the fluid within said housing is adapted to freely pass through said fluid passageways and gear receiving chambers, thereby severing the connection between said driven shaft and housing and allowing the idler gears to revolve freely about said driven gear.

1,918,237. WIRE DRAWING APPARATUS. JOHN L. ALDEN, La Grange, Ill., assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 9, 1930. Serial No. 419,669. 2 Claims. (Cl. 205—20.)



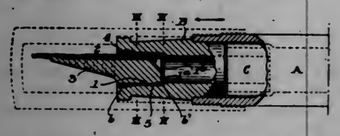
1. In a wire drawing apparatus, means for advancing a wire through the apparatus comprising a plurality of cylindrical wire engaging drums for receiving convolutions of the wire, one of the drums being provided with a V-shaped peripheral groove for receiving and wedging the wire therein, a die for the convolutions of wire of each drum including a finishing die for the drum having the V-shaped peripheral groove, which drum assures positive advancement of the wire through the finishing die.

1,918,238. RADIO RECEIVING SYSTEM. FRED P. ANDREWS, U. S. Army, Seattle, Wash. Filed Sept. 14, 1928. Serial No. 306,016. 1 Claim. (Cl. 250—40.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



In combination with a plurality of radio receivers each having a variable condenser, a remote electrically controlled common means for controlling the variable condensers of each of the receivers, said means comprising a controlling variable condenser having stationary plates connected separately to the corresponding variable condenser of each receiver, and a common single movable plate connected to the pointer of the armature of a remotely controlled meter mechanism.

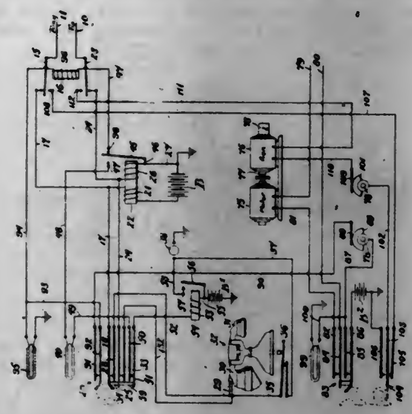
1,918,239. FOUNTAIN PEN. LEON HEHL ASHMORE, Collingswood, N. J., assignor, by direct and mesne assignments, to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J., a Corporation of New Jersey. Filed Dec. 24, 1931. Serial No. 582,929. 9 Claims. (Cl. 120—52.)



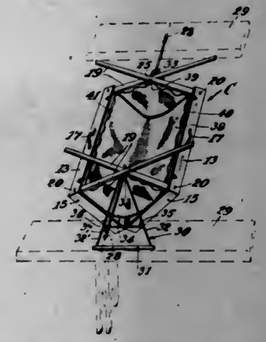
1. The combination with a fountain pen structure comprising a barrel and a pen section therefor carrying the usual ink bag disposed within said barrel; said pen section having a through bore of two diameters with the larger bore portion at its outer end, of a detachable shell fitting the larger portion of the bore of said pen section, lying wholly therewithin, and having an end wall, a pen nib carried by said shell, and a feeder member associated in fixed relation with said pen nib and confining the latter within said shell; said pen nib and feeder member being longitudinally positioned by the end wall of the detachable shell and said shell and its contained parts comprising a unit element insertible and removable as a whole with respect to the enlarged bore of said pen section.

1,918,240. POLICE SIGNAL SYSTEM. GUSTAV F. C. BAUER, Tonawanda, N. Y., assignor to National Police Signal Company, Buffalo, N. Y., a Corporation of New York. Filed Mar. 26, 1931. Serial No. 525,471. 12 Claims. (Cl. 179—5.)

1. In combination with a common battery telephone system comprising a central station, at least one substation and a line circuit connecting said central station with said substation and said line circuit being normally impressed with said battery current, a signal device which within itself is a non-conductor at voltages below a predetermined value and becomes a conductor at voltages above said predetermined value and having a normal operating voltage above that of said battery, said signal device being arranged at said substation and connected directly across said line circuit, said signal device forming a completely open circuit across said line circuit at the voltages of said common battery and means at said central station for intentionally passing electrical current having a voltage in excess of that of said common battery through said line circuit to operate said signal device.

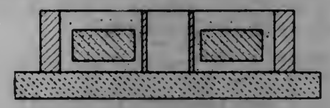


1,918,241. CONVERTIBLE FURNITURE. PETER BELLAVIA, Garwood, N. J. Filed Mar. 31, 1930. Serial No. 440,504. 5 Claims. (Cl. 190—12.)



1. A convertible case composed of two box-like sections, each having an interior space defined by a side wall joining opposing end walls and opposing top and bottom walls, hinge means joining the free edges of the bottom walls to permit adjustment of the sections about the hinges to various positions, including one adjustment of the sections to one position in which the bottom walls are in abutting relation with the side walls established in a common plane to serve in the capacity of a table top, and another adjustment of the sections to angular position in which the side walls diverge upwardly from the hinge-connected bottom walls with the interior spaces in confronting relation to serve in the capacity of a cradle, a plurality of supports for each section each of which is disposed in the space of its individual section and pivoted to its individual section so as to be swung outwardly well beyond the end walls and top and bottom walls, adapting said support to be used as legs for the support of the sections when the side walls thereof are established in a common plane, and further adapting the supports of one section to intercross the supports of the other section when the sections are established in angular relation, and pivot means for connecting the supports of the sections at the points of intercrossing for retaining the supports and sections for swinging movement.

1,918,242. MANUFACTURE OF ABRASIVE ARTICLES. RAYMOND C. BENNER, PRESCOTT H. WALKER, and CHARLES E. WOODDELL, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed Oct. 23, 1929. Serial No. 401,963. 16 Claims. (Cl. 51—278.)



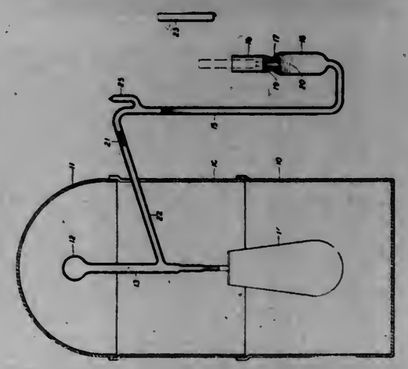
1. An abrasive article comprising abrasive particles bonded with a fused zinc borosilicate glass bond.

1,918,243. STOPPER. FÉLICIE EUGÉNIE AMÉLIE WANPOUILLE BERGAUD, Paris, France, assignor to Caron Corporation, New York, N. Y. Filed June 29, 1932, Serial No. 620,046, and in France July 1, 1931. 2 Claims. (Cl. 40—4.)



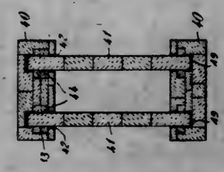
2. A stopper comprising, a head portion having a recess in its upper surface, a plug portion integral with the head portion and projecting downwardly therefrom, an ornamental device adapted to rest in the recess, and a cover fitted into said recess for retaining said device therein.

1,918,244. MANUFACTURE OF VAPOR ELECTRIC DEVICES. DONALD S. BOND, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 9, 1930. Serial No. 480,654. 12 Claims. (Cl. 250—27.5.)



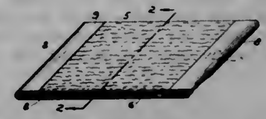
1. An injector device for electric discharge devices, comprising an elongated reservoir containing a vapor producing substance, an inclined tubular passageway connected to said reservoir, a capillary tube portion intermediate said reservoir and inclined passageway, a sealed porous plug in the open end of said reservoir, and means for temporarily engaging said porous plug to inject a force producing medium into said reservoir to raise the substance therein to the level of said capillary tube portion.

1,918,245. ZINC FURNACE. EARL H. BUNCE and PHILIP M. GINDER, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed May 29, 1930. Serial No. 456,988. 18 Claims. (Cl. 263—42.)



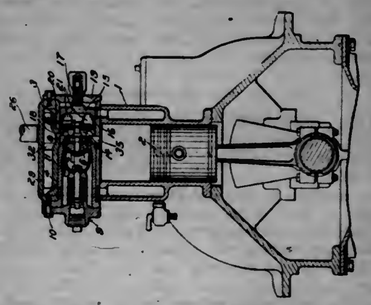
16. In a zinc reduction retort, the combination comprising a vertical retort defined by a plurality of vertical walls, said vertical walls fitting together in vertical slip-joints formed by vertical channels into which adjacent walls fit snugly and which are substantially zinc-vapor tight under normal operating conditions.

1,918,246. PACKING PAD. ROBERT W. BURROWS, Petaluma, Calif.; Mabel Burrows, executrix of said Robert W. Burrows, deceased, assignor to William K. Jaquith, Petaluma, Calif. Filed Aug. 13, 1930. Serial No. 475,020. 7 Claims. (Cl. 154—54.)



1. A packing pad comprising superposed layers of flaccid sheets of crimped paper and a facing sheet having a waterproofed surface, and provided with end wings adapted for folding over the ends of the superposed crimped layers and for attachment to the reverse side of the pad from the facing sheet.

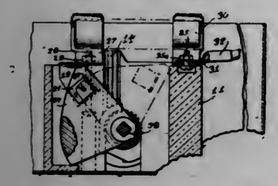
1,918,247. COMPRESSOR MECHANISM. LEWIS J. CLAPP, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 28, 1930. Serial No. 439,597. 17 Claims. (Cl. 230—231.)



1. A compressor having a plurality of cylinders having piston receiving bores and arranged with their axes lying in a common plane, a common unitary detachable cylinder head seated on said cylinders and closing the cylinder

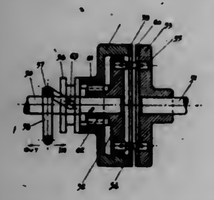
bores, and valve mechanisms for each cylinder, disposed in said head and with their respective axes in substantially parallel relation, the valve mechanisms individual to each cylinder being spaced from each other only a small fraction of the cylinder diameter.

1,918,248. INCLOSED SWITCH. HARMON J. COOK, Torrington, Conn. Filed Mar. 11, 1930. Serial No. 434,867. 5 Claims. (Cl. 200—162.)



2. In an electric switch, an insulating block having an angular slot, fixed angular contact members located on the surface of said block at opposite sides of said slot, an insulating sector-shaped disc located in said slot and having a loosely mounted U-shaped movable resilient bridging contact member passing therethrough, the legs of said movable contact member lying on opposite sides of said disc for connecting said fixed contact members, said discs being pivotally mounted in said block near one corner of said slot.

1,918,249. DEVICE FOR ELIMINATING TORSIONAL VIBRATION. GEORGE JOSEPH DASHEFSKY, Brooklyn, N. Y. Filed Nov. 22, 1927. Serial No. 235,034. 13 Claims. (Cl. 64—96.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



1. Means for limiting torsional oscillations in a revolving power transmitting mechanism comprising a clutch between a driving part and a driven part of said mechanism, said clutch having a two-way coupling engagement, one way of engagement being by spring means interposed between the driving and driven members of the clutch, the other way being by rigidly interlocking portions of said clutch members.

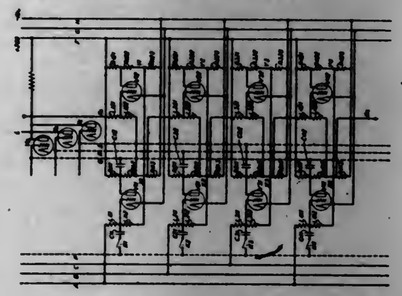
1,918,250. METHOD OF PRODUCING ALPHA CELLULOSE. JOAQUIN JULIO DE LA ROZA, Sr., Tuinucu, Cuba. Filed June 28, 1930. Serial No. 464,717. 3 Claims. (Cl. 92—11.)

1. A method of treating sugar cane fiber to produce cellulose of high alpha content, low ash content, light color, and great purity, which includes; passing the fiber into a vessel, closing the vessel, creating a partial vacuum in the vessel, injecting into the vessel a mixture of sulphur dioxide and water, treating the fiber with said mixture in said vessel within directly applied heat at a temperature of approximately 110° to 120° C., and, subsequently, treating the fiber with a mixture of sodium hydroxide and water in a closed vessel at a temperature of approximately 120° to 140° C.

1,918,251. METHOD OF PREPARING CELLULOSE ESTERS AND PRODUCT THEREOF. CAMILLE DREYFUS, New York, N. Y., and HERBERT E. MARTIN and LESLIE N. LEE, Cumberland, Md., assignors to Celanese Corporation of America, a Corporation of Delaware. Filed Dec. 11, 1928. Serial No. 325,382. 14 Claims. (Cl. 260—101.)

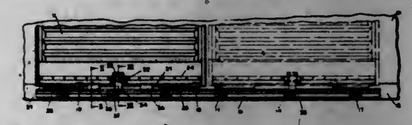
1. The method of treating cellulose, said method comprising treating cellulose with a mixture of nitric acid and a lower aliphatic acid in the absence of an esterification catalyst.

1,918,252. HIGH SPEED TELEGRAPHY. CARLTON ROSSLYN DUNHAM, Aldwych, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 25, 1931, Serial No. 539,687, and in Great Britain June 12, 1930. 14 Claims. (Cl. 178—51.)



1. A circuit arrangement comprising a plurality of groups of mechanically static electric energy translators, such as thermionic valves of which each comprises a grid, a cathode and an anode, means for applying a potential to the grid of one of said valves, said potential depending on the anode current of another valve in the arrangement.

1,918,253. CAR DOOR. CARL E. EKLIND and KENNETH J. TOBIN, Chicago, Ill., assignors to Camel Company, Chicago, Ill., a Corporation of Illinois. Filed July 26, 1929. Serial No. 381,120. 3 Claims. (Cl. 292—238.)

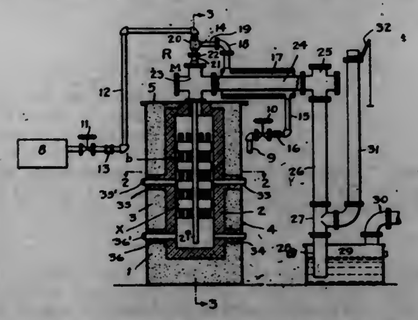


1. In combination with a car, a sliding door and a latching member at the bottom of said door pivotally carried by said door for movement on an axis parallel with the lower edge of said door, a track member fixed to said car adapted to support said door including a longitudinal channel shaped portion adjacent and parallel to the lower edge of said door, said longitudinal channel shaped portion including spaced, cut-away latch receiving openings therein, said latch being arranged to gravitally hang in latching position in engagement with one of said cut-away openings to hold said door against sliding movement and said latching member being movable into inclined inoperative position and adapted to be retained in inoperative position by said channel shaped portion while said door is displaced from its latching positions.

1,918,254. REFORMING OF NATURAL GASES. WILLIAM F. FABER, Newark, N. J., assignor to Victor N. Roadstrum, West Orange, N. J. Filed Nov. 29, 1927. Serial No. 236,453. 24 Claims. (Cl. 48—196.)

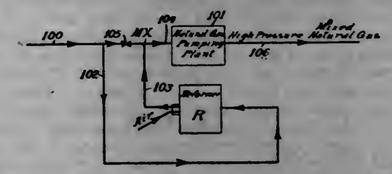
24. The method which comprises admixing material consisting mainly of a paraffin hydrocarbon substance

lighter than pentane with a combustion supporting gas containing free oxygen sufficient to produce therewith only partial combustion and causing said material and gas to flow into a hot reforming zone wherein a temperature above 1000 degrees F.—but not substantially above approximately 1700 degrees F.—is maintained by the resulting partial combustion, sufficient to effect in the hot reforming zone and without supplying additional heat



from an external source the reforming of at least a substantial part of said material under the direct influence of the heat of the partial combustion without the production of carbon black of fluid products that among other ingredients thereof include a substantial percentage by volume of methane, and also carbon monoxide and hydrogen in approximately equal parts, and withdrawing from the hot reforming zone the fluid products resulting from said process.

1,918,255. REFORMING OF NATURAL GASES. WILLIAM F. FABER, Newark, N. J., assignor to Victor N. Roadstrum, West Orange, N. J. Original application filed Nov. 29, 1927, Serial No. 236,453, and in Canada Aug. 20, 1928. Divided and this application filed Aug. 3, 1929. Serial No. 383,353. 2 Claims. (Cl. 48—74.)



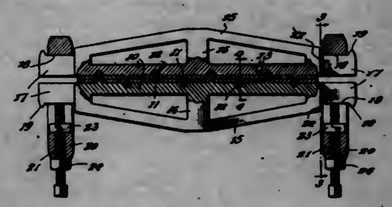
1. A system according to which there are included and arranged in cooperative relationship a pumping means, a pipe line thereto through which natural gas passes while en route to the pumping means, said pipe line having a gas mixing means constituting a part thereof, gas reforming means, means for conducting gas to be reformed from said pipe line but from a point ahead of said gas mixing means to said gas reforming means, means for supplying combustion supporting gas as air to said gas reforming means for the purpose of supporting partial combustion essential for the carrying out of the gas reforming process in the gas reforming means, said gas reforming means being constructed so as to continuously carry out therein a gas reforming process dependent for its functioning upon partial combustion for the production of the reformed gas and without the production of free carbon and which reformed gas thus produced therein is a fixed combustible gas of lower calorific value per unit volume and of larger volume than the natural gas from which it was produced, means for conducting reformed gas from the gas reforming means to said gas mixing means whereby the pumping means pumps from the gas mixing means a mixture of reformed gas and of natural gas which has not been reformed.

1,918,256. METAL FURRING STRIP. ELMER FERNSTROM, La Jolla, Calif. Filed Dec. 15, 1930. Serial No. 502,460. 3 Claims. (Cl. 72—118.)



1. A furring strip comprising an elongated flat base adapted to be secured to a sheathing or studding of a wall structure, a rib or web extending forwardly from the base for the entire length thereof and arranged at one edge of the base, said rib or web being adapted to support a wire mesh reinforcing fabric on its outer edge in spaced relation with respect to the sheathing or studding, said rib or web being formed at spaced intervals with plastic receiving openings, a flange extending laterally from the outer edge portion of the rib or web and disposed in an opposite direction with respect to the base, said flange being slotted at spaced intervals to form bendable cleats for securing the wire mesh fabric in position on the furring strip.

1,918,257. CLAMP FOR PULLEY BELTS. JAMES LEE FORSYTH, Smackover, Ark., assignor of one-half to John Murry Smith, Smackover, Ark. Filed Apr. 18, 1932. Serial No. 606,035. 3 Claims. (Cl. 24—37.)

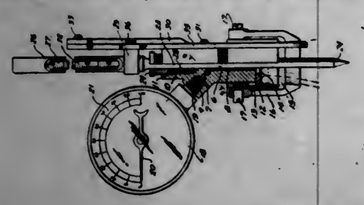


1. A belt clamp comprising clamping jaws having interfitting projections and depressions on their working faces, each jaw terminating at the ends in longitudinally disposed lugs reduced in dimensions transversely to provide stop shoulders at the inner ends of the lugs, said lugs being cut away to form seats on the rear faces, said lugs thereby terminating at the outer ends of said seats in step shoulders, coupling eyes seated in said seats of one of said jaws and retained against endwise escape therefrom by said inner and outer stop shoulders, set screws passed through said eyes and bearing against one pair of said lugs to hold the jaws in operative position, and lock nuts on said set screws engaging the inner and outer faces of the coupling eyes.

1,918,258. DEVICE FOR TESTING CARBONATED BEVERAGES. ARTHUR F. FREDRICKSEN, Waukesha, Wis. Filed Sept. 11, 1930. Serial No. 481,115. 3 Claims. (Cl. 73—151.)

2. In a device of the character described, the combination of a casing, means for detachably securing said casing in fluid-tight engagement with the capped mouth of a bottle, a thermometer, a sheath for said thermometer slidably mounted in said casing and provided with a cap-

piercing end, and toggle mechanism carried by the casing and connected with said sheath for moving said thermometer and its sheath, relative to said casing, into and out of operative relation with the contents of the bottle, said casing having a passage, and a pressure gauge



mounted on said casing and communicating through said passage and through the pierced cap with the interior of the bottle whereby readings of the temperature and gas pressure of the contents of the bottle are obtainable at substantially the same time and under substantially the same conditions of the contents of the bottle.

1,918,259. ELECTRICAL RESISTANCE. JOHN C. GABRIEL, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 23, 1930. Serial No. 490,594. 2 Claims. (Cl. 201—63.)



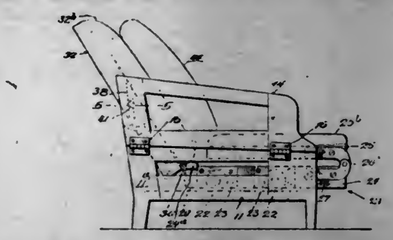
2. In a high frequency attenuator, a resistor comprising a flexible conductor arranged transversely on only one side of a card in a zigzag manner, the card being composed of dielectric material, and means for retaining the conductor in its zigzag position; said means comprising a continuous cord arranged transversely on the opposite side of the card in a zigzag manner, the loops of the cord being interlaced with similar loops of the conductor.

1,918,260. MAGNESIUM BASE ALLOY. JOHN A. GANN, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Apr. 25, 1932. Serial No. 607,509. 6 Claims. (Cl. 75—1.)

1. As a new product, a magnesium alloy composed of the metals magnesium, cadmium, zinc, and manganese wherein the magnesium content is in excess of 75 per cent, that of cadmium and zinc each is from 0.1 per cent to 15 per cent, and that of manganese from 0.1 to 2.5 per cent.

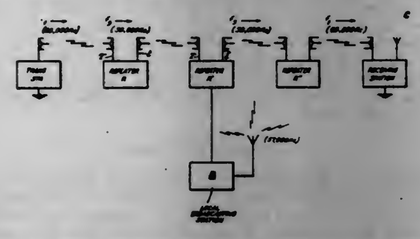
1,918,261. CONVERTING CHAIR. LUDWIG GILCH, Chicago, Ill. Filed Jan. 18, 1932. Serial No. 587,269. 1 Claim. (Cl. 155—49.)

A convertible chair comprising in combination, a chair frame having side frames, horizontal cross connections therebetween, and a pair of rails, a seat movably mounted on said rails and comprising upper and lower sections hinged together at the front, whereby the upper section may be extended into line with the lower section, a tiltable back hinged to the lower seat section, and having oppositely disposed pins projecting laterally from its sides, the side frames having straight, upright oppositely disposed slots therein for receiving the pins and being closed at the top and provided with stop shoulders at the bottom, the lower extremities of said slots passing around said stop shoulders and opening out rearwardly, whereby the back may be adjusted into inclined positions with the pins traveling in the straight portions of the slots, and whereby the stop shoulders positively support the back in its lowermost inclined position, and whereby the pins may be moved out of said slots at the lower ends



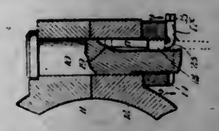
thereof, permitting the back to lie substantially horizontally with the upper hinged portion of the seat extended horizontally.

1,918,262. ULTRA-SHORT WAVE REPEATING SYSTEM. ALFRED N. GOLDSMITH, New York, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Apr. 30, 1932. Serial No. 608,359. 2 Claims. (Cl. 250—15.)



1. An ultra-short wave radio communication system of the type comprising a transmitting station, a remote receiving station, and a plurality of intermediate repeater stations between said transmitting and receiving stations, each of said repeater stations having a directive receiving antenna positioned to receive signal waves from its next adjacent station located in the direction of the transmitting station and a directive transmitting antenna positioned to transmit signal waves towards its next adjacent station located in the approximate direction of the receiver, characterized in this, that to at least one of said intermediate receiving stations there is connected signal transmitting equipment associated with a non-directional antenna for broadcasting purposes, said transmitting equipment being adapted to receive signals being relayed over said system from station to station.

1,918,263. NUT LOCK. CHESTER C. HARBRIDGE, Detroit, Mich. Filed Mar. 7, 1932. Serial No. 597,145. 8 Claims. (Cl. 151—4.)



6. A lock pin for nuts consisting of a strip of bendable metal of a size to lie within a longitudinal groove which intersects a screw thread on a bolt, having a portion of reduced thickness projecting beyond the plane of one of its edges and adapted to project out of the groove so it will be cross grooved by a nut applied to the bolt.

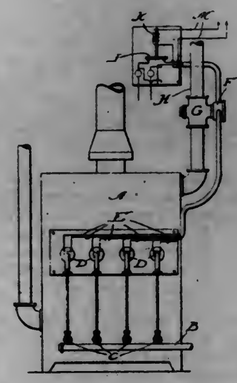
CARNEGIE LIBRARY OF ATLANTA

1,918,264. EYESHADE. BERT HARPSTER, Beatrice, Nebr. Filed June 17, 1932. Serial No. 617,851. 1 Claim. (Cl. 2—12.)



An eye shade comprising a pair of connected frames, hook-shaped elements carried by opposite sides of the frames, shade elements having notches at opposite edges to receive the hook-shaped elements and each provided with spaced openings midway between the notches, and a projection on each frame to engage in either of the openings of the respective shade element for adjusting the shade element relative to the frame.

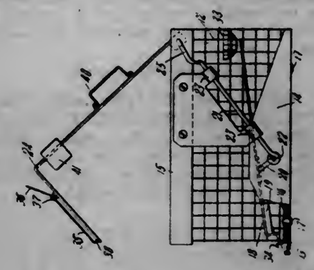
1,918,265. BALANCED FUEL CONTROL FOR FURNACES. WILLIAM G. HARTWIG, Chicago, Ill., assignor to Railway Utility Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 17, 1932. Serial No. 593,544. 2 Claims. (Cl. 236—32.)



1. A furnace control system, comprising a fuel supply, a plurality of independently valved burners adapted to receive fuel from said supply and deliver heat to said furnace, an individual electric actuator for the valve of each burner, an independent electric circuit for each actuator, an independently yielding terminal for each circuit, a circuit closed common to all the terminals but encountering them successively by continued movement in one direction, and a single thermostatically impelled actuator for said closer.

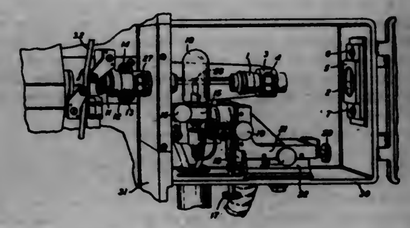
1,918,266. BOX TRAP. FREDERICK J. HENRY, Taunton, Mass. Filed Oct. 12, 1931. Serial No. 568,865. 5 Claims. (Cl. 43—61.)

4. A box trap comprising a body including a bottom, side walls, and an inner end wall, said body being open at the top and one end, a tilting platform having a pivotal connection between its ends with the body sides and biased so that its outer end is normally depressed and its inner end is depressible by an animal entering the trap, an angular cover formed to close the open top and end, and pivoted at one end to the body sides, and means cooperating with the platform to confine the cover in a raised position when the platform is in its normal



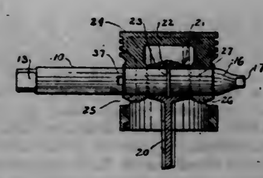
position, said means being operable by the tilting of the platform from said position to permit the closing of the cover.

1,918,267. SOUND RECORDING AND REPRODUCING SYSTEM. WILLIAM HERRIOTT, Freeport, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 24, 1931. Serial No. 532,535. 5 Claims. (Cl. 179—100.3.)



1. In a sound recording or reproducing machine, a lamp having an incandescent filament, means to produce an image of said filament at a particular area, a screen adjustably secured to said machine, means to produce on said screen a reproduction of the filament image as it appears at said area, indicating means on said screen, and means to adjust said screen to a point where said entire filament image is placed in a particular relation to said indicating means.

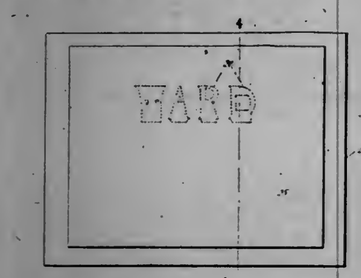
1,918,268. TOOL. CHESTER E. HINCKLEY and REESE GREEN, Yale, Okla., assignors to Magnolia Petroleum Company, Dallas, Tex., a Corporation of Texas. Filed Feb. 3, 1930. Serial No. 425,419. 1 Claim. (Cl. 90—12.)



A tool adapted to face the pin bosses of a piston, comprising a part having a cylindrical portion of approximately the diameter of a piston pin to be mounted in

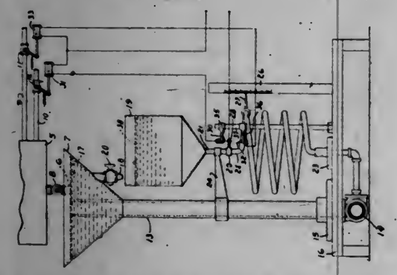
the bosses, a cylindrical tapering portion and an aperture extending through the part, a cutting tool mounted on the part in the aperture, a piston pin adapted to be assembled in the pin bosses mounted on the cylindrical portion with one end thereof in contact with the cutting tool, and means for engaging the cylindrical tapering portion of the tool part for securing the piston pin and cutting tool thereon.

1,918,269. METHOD OF AND APPARATUS FOR SAND-BLASTING INTAGLIO DESIGNS IN STONE AND THE LIKE. TIMOTHY JELLOW, Quincy, Mass.; Helen Hartley Jellow, Cambridge, Mass., administratrix of said Timothy Jellow, deceased. Filed Aug. 21, 1931. Serial No. 558,428. 3 Claims. (Cl. 41—39.)



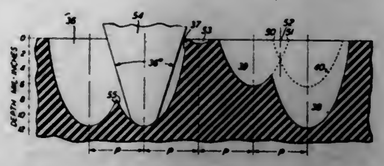
1. A stencil for use in sand-blasting a design or inscription in stone comprising a sheet of sand-blast resisting composition, friable die-members embedded therein, and sheets of paper adhesively secured to the respective faces thereof, said die-members having their upper and lower faces in contact with said sheets, respectively.

1,918,270. APPARATUS FOR DETERMINING CHARACTERISTICS OF A FLUID. ZOLTAN JOSEF KEGL, Hollywood, Calif., and HENRY MARTIN LARSEN, La Grange, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 21, 1928. Serial No. 327,578. 5 Claims. (Cl. 265—11.)



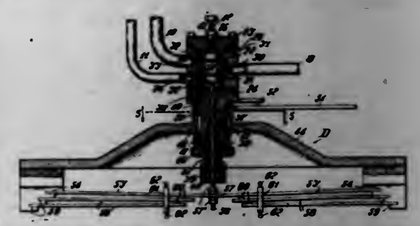
3. In an apparatus for determining the viscosity of a fluid, a container for holding a supply of fluid, means for supplying the fluid to the container at a substantially constant rate, means for conducting the fluid from the container at a rate substantially equal to the rate at which the fluid is supplied thereto when the viscosity of the fluid is within predetermined limits, said last mentioned means comprising a resilient spiral tube having an elongated passage therethrough for supporting the container in a predetermined position when the amount of fluid therein is within predetermined limits, and means secured to the container for indicating its position thereby to indicate the viscosity of the fluid passing through the container.

1,918,271. SOUND RECORDING AND REPRODUCING SYSTEM. ARTHUR C. KELLER, Mount Vernon, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 18, 1931. Serial No. 531,026. 7 Claims. (Cl. 274—46.)



1. A phonograph record of sound recorded in a hill and dale type overlapping groove having an average depth greater than 2½ mils.

1,918,272. THERMOSTATIC CONTROL VALVE FOR REFRIGERATOR CARS. JULIUS KOPSA, Chicago, and EDMUND D. BRIGHAM, Jr., Highland Park, Ill., assignors to North American Car Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 6, 1930. Serial No. 493,898. 7 Claims. (Cl. 236—101.)

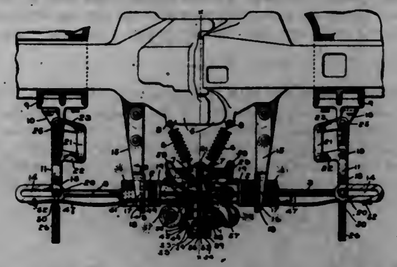


5. A combined expansion and distributing valve for refrigerating systems comprising a valve body formed with a central piston chamber, an inlet passage for liquid refrigerant formed in the body and terminating in two spaced apart restricted branch passages leading into the piston chamber, a pair of similarly spaced restricted passages leading from the piston chamber to a pair of outlet passages, a piston slidably fitted in the chamber and provided with a pair of separate restricted passages, each adapted to align with one of the branch inlet passages and one of the restricted outlet passages, the passages in the piston being so spaced that when one of them is in position to complete a continuous restricted passage through the valve body, communication between the other branch inlet passage and aligned outlet passage will be closed by an interposed solid portion of the piston, a valve stem extending from the piston and guided through an extension of the valve body, a thermostat connected with the outer portion of the valve stem for moving the piston, a frame for supporting the thermostat and slidably mounted on the body extension, a spring for urging the assembled frame, thermostat, stem and piston in one direction along the axis of the valve stem, a rotary cam interposed between portions of the frame and valve body and adapted to move the mentioned assembly in opposition to the spring, a lever for moving the cam, and a calibrated dial over which the lever is movable.

1,918,273. TRAIN PIPE COUPLING. ANTON K. KUHLBAUCH, Bellevue, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Sept. 11, 1931. Serial No. 562,295. 12 Claims. (Cl. 285—58.)

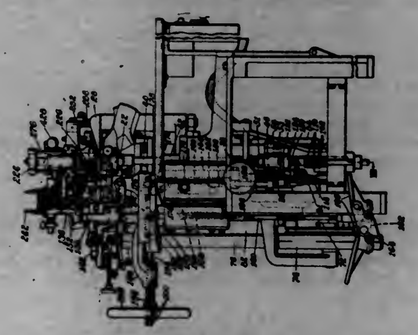
12. The combination with a car coupler, of a train pipe coupling disposed beneath said car coupler and having an uncoupled position to the rear of the coupling

plane of the car coupler and movable past the coupling plane of the car coupler to a position for coupling with a counterpart coupling, and means for supporting said



coupling beneath said coupler and operative manually to move said coupling from the uncoupled position to said coupling position.

1,918,274. LASTING MACHINE. FRED N. LA CHAPELLE and FRED C. EASTMAN, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 20, 1930. Serial No. 430,071. 70 Claims. (Cl. 12—4.)



1. A lasting machine having means for working a shoe upper into lasted relation to a last and insole, fastening inserting mechanism constructed and arranged to insert fastenings through the overlasted marginal portion of the shoe upper into the insole to secure the upper in lasted relation to the insole and last, the entire fastening inserting mechanism being mounted for swinging movement as a unit toward and from the shoe operated on about an axis not substantially higher than the shoe so that the fastening inserting means can be maintained remote from the shoe while the upper is being worked into lasted relation to the last and insole and can be swung into operative relation to the shoe upper and insole after the upper has been worked into lasted relation for the insertion of the fastenings, and means for operating the fastening inserting mechanism after it has been swung into operative position.

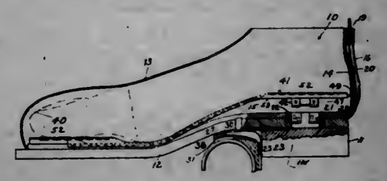
1,918,275. COLLAR CLASP. WARREN R. LARTER, South Orange, N. J. Filed Apr. 14, 1932. Serial No. 605,234. 2 Claims. (Cl. 24—81.)

2. A soft collar clasp, comprising a main bar formed of a sheet of metal bent to provide a front wall, side walls, a back wall and end walls, the edges of the sheet meeting in said back wall, and a spring clamping bar in contact with the back of the front wall of said main bar, the longitudinal edge portions of the sheet intermediate their ends overlying the central portion of said clamping bar to secure the clamping bar on the main bar and having notches forming openings through which project the end portions of the clamping bar, the rear wall and front wall of the main bar being in divergent spaced relation to each other outwardly from the ends of said central portion of the clamping bar and the extremities of



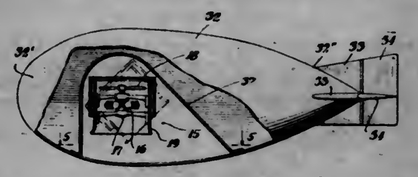
said clamping bar being arranged in opposed clamping relation to the end portions of the main bar, whereby the central portions of said main bar and said clamping bar mutually reenforce each other and the end portions of the main bar are substantially rigid.

1,918,276. ELECTRIC BODY WARMING DEVICE. WILLIAM W. LILLARD, Mahwah, N. J. Filed Jan. 30, 1928. Serial No. 250,461. 16 Claims. (Cl. 219—19.)



1. In an electrically warmed shoe of the class described, a terminal unit including a rubber terminal-carrying block for embedment in the heel portion of the shoe, said block having a socket opening, a pair of terminal plates fastened to said terminal block in said socket opening, a metallic contact strip connected to each of said plates and extending forwardly therefrom, and terminating in the instep portion of the shoe, and a downwardly extending contact knob or bead on each strip positioned in the instep portion of the shoe, said knobs being arranged to clear a surface upon which said shoe rests.

1,918,277. REACTION PROPULSION MEANS. CHRISTOPHER MARQUOLIO, New York, N. Y. Filed Oct. 24, 1930. Serial No. 490,831. 24 Claims. (Cl. 244—18.)

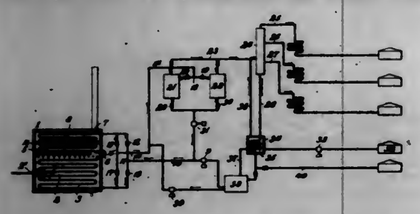


1. In a device of the kind described, the combination of a plate structure, a propeller mounted adjacent thereto and spaced therefrom, means for revolving said propeller, thereby forcing a column of air against said plate structure, and means for confining the column of air so driven against said plate structure and means for separating the air so driven against said plate structure from the air reacting from said plate structure.

1,918,278. APPARATUS FOR THE TREATMENT OF HYDROCARBON OILS. EMERY C. MARSHALL, Kansas City, Mo., and MYRON J. BUSKHARD, Kansas City, Kans., assignors to White Eagle Oil and Refining Company, Kansas City, Mo. Filed May 3, 1928. Serial No. 274,916. 1 Claim. (Cl. 196—116.)

An apparatus for cracking petroleum residue comprising a heating unit, a pipe through which the oil passes

having a portion subject to radiant heat from the unit and a portion subject to heat by convection from the unit, a pair of parallel manifolds connected to each of said portions, an oil supply means in communication with one of



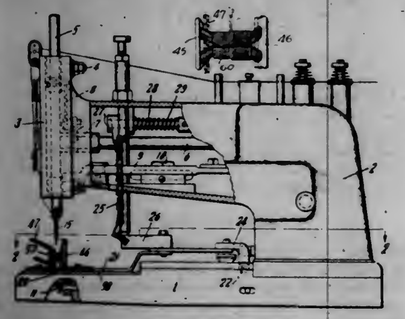
the said manifolds, an outlet pipe in communication with the other of said manifolds, vaporizing means to which the outlet pipe leads, and means enabling the oil to be initially heated either by radiation or convection.

1,918,279. ANTISLIPPING CALK FOR SHOES. JOHN J. MASTERSON, Brockton, Mass. Filed Dec. 1, 1932. Serial No. 645,221. 1 Claim. (Cl. 36—67.)



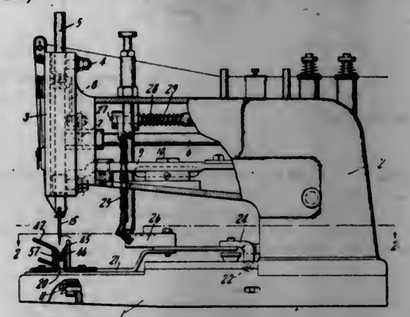
A member adapted to convert the smooth tread of a completed shoe into a ground-engaging tread, said member including a spike, an enlargement surrounding the base of the spike, and having an outer impact face and a seating face, and a plurality of spaced apart prongs projecting inwardly from the seating face, and having inner sides including inclined outer portions intersecting the outer sides of the prongs to form cutting ends adapted to penetrate the tread of an outer sole, the outer sides of the prongs being parti-cylindrical, the inner sides having inner portions perpendicular to the seating face and grooved oppositely inclined outer portions intersecting the parti-cylindrical outer sides to form arcuate chisel edges on the outer ends of the prongs.

1,918,280. SHANKING BUTTONS. MICHAEL MCCANN, St. Albans, N. Y., assignor to Frederick Osann Company, New York, N. Y., a Corporation of New York. Filed Feb. 12, 1930. Serial No. 427,785. 8 Claims. (Cl. 112—265.)



1. The combination with work having a button sewed thereto and spaced therefrom to leave a neck of sewing threads extending therebetween, of means tightly binding said neck threads comprising loops of thread passed thereabout in opposite directions and secured together, said binding loops being distributed closely along said neck between the back face of the button and the forward face of the work and forming with said sewing threads a relatively stiff neck spacing the button from the work.

1,918,281. MEANS FOR SHANKING BUTTONS. MICHAEL MCCANN, St. Albans, N. Y., assignor to Frederick Osann Company, New York, N. Y., a Corporation of New York. Original application filed Feb. 12, 1930, Serial No. 427,785. Divided and this application filed Jan. 17, 1931. Serial No. 509,390. 9 Claims. (Cl. 112—111.)



1. In combination, means for holding in spaced relation a button and work to which said button is loosely secured by stitches to form a neck of stitching threads extending therebetween, and means for wrapping a definite length of said neck with loops of thread passed thereabout in opposite directions and secured together.

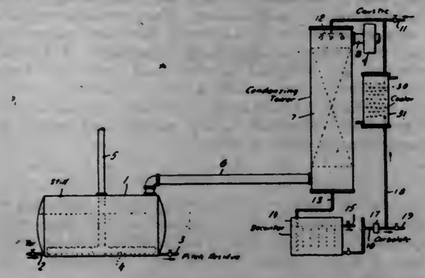
1,918,282. ELECTRIC SWITCH. GEORGE J. MEUER, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware. Filed May 1, 1929. Serial No. 359,489. 8 Claims. (Cl. 200—168.)



1. In an electric switch, in combination, a thin punched plate of insulating material, said plate having a plurality of substantially rectangular openings, a plurality of one-piece combined contact and terminal members, the terminal portions of certain of said members being of reduced width to permit passage thereof downwardly through said openings and the contact portions thereof being provided with shoulders to engage the upper surface of said plate, one of said portions of reduced width being undercut at opposite side edges thereof to provide integral lugs which may be upset against the lower surface of said plate to rigidly secure the respective member thereto, and said last mentioned portion also having a boss formed thereon to insure a drive fit thereof within the respective opening.

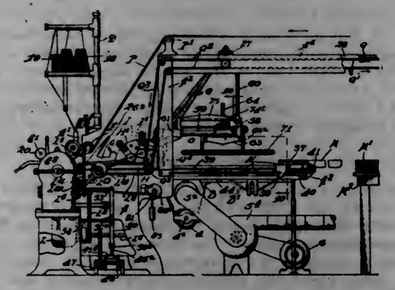
1,918,283. RECOVERY OF TAR ACIDS. STUART PARMELEE MILLER, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 24, 1930. Serial No. 446,868. 10 Claims. (Cl. 202—67.)

1. The method of producing neutral oils and tar acids from tar, which comprises subjecting the tar to distillation at an elevated temperature with the aid of an inert gas brought into intimate contact with the tar to produce a mixture of hot inert gases and tar acid vapors, and subjecting such gases and vapors to condensation and simultaneous extraction of tar acids by bringing caustic



solution into direct contact therewith to effect substantially complete condensation of oil vapors from the gases and simultaneous extraction of tar acids, and separating the resulting condensed neutral oils from the carbolate solution.

1,918,284. UPHOLSTERY-MAKING MACHINE AND PROCESS. ALLISTER S. MITCHELL, Oakland, Calif., assignor to National Automotive Fibres, Inc., Detroit, Mich., a Corporation of Delaware. Filed Oct. 30, 1930. Serial No. 492,348. 51 Claims. (Cl. 45—138.)



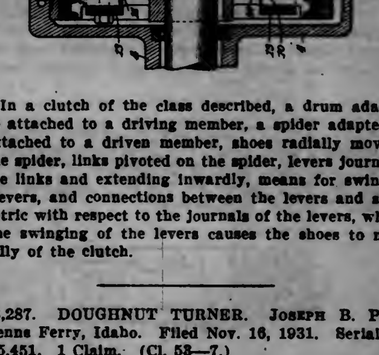
3. In combination in a machine of the character set forth: a pneumatic conveyor and associated spaced ridges; a series of depressible fabric-depressing members over the spaces between said ridges; and means operative to carry said members sequentially into position to bring successive linear portions of the fabric within the grip of said conveyor.

49. A method of forming pleats in upholstery material, which method comprises placing a fabric blank in a predetermined position, forming pleats in it while it is in said position, advancing a second fabric, advancing said fabric-blank, feeding filling material between said fabrics, and then sewing said fabrics to each other.

1,918,285. MAGAZINE SPOOLING MECHANISM. CLIFFORD G. OFFEN, Portland, Me., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Jan. 8, 1931. Serial No. 507,357. 3 Claims. (Cl. 19—162.)

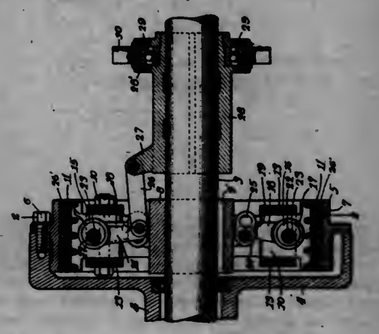
1. Apparatus of the class described comprising a conveyor belt, a shaft spaced above said belt and extending thereacross, a frame carried by said shaft and revoluble about the axis thereof, said frame having pairs of radially extending arms with radial grooves therein, a cylindrical spool mounted between each pair of arms, said spools each having a pair of trunnions to ride in said grooves, means releasably holding said frame in positions wherein the lowermost spool carried thereby may rest on said belt, and a traversing guide adjacent to said frame.

2. A magazine spooling mechanism, comprising a horizontal shaft, a frame revoluble about the axis of said shaft, a plurality of spools having trunnions carried by said frame, and means for releasably holding said frame



with any selected spool thereon in strand-receiving position, said frame having a pair of radially extending arms for each spool carried thereby, each said pair of arms having opposed faces with radial grooves therein to receive the trunnions of a spool, said arms being sufficiently resilient to be sprung apart to permit the insertion or removal of a spool therebetween.

1,918,286. SHOE CLUTCH. WILLIAM J. PEARMAIN, Racine, Wis., assignor to The Twin Disc Clutch Company, Racine, Wis., a Corporation of Wisconsin. Filed Nov. 24, 1930. Serial No. 497,649. 5 Claims. (Cl. 192—76.)

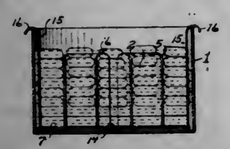


1. In a clutch of the class described, a drum adapted to be attached to a driving member, a spider adapted to be attached to a driven member, shoes radially movable on the spider, links pivoted on the spider, levers journaled in the links and extending inwardly, means for swinging the levers, and connections between the levers and shoes eccentric with respect to the journals of the levers, whereby the swinging of the levers causes the shoes to move radially of the clutch.

1,918,287. DOUGHNUT TURNER. JOSEPH B. PIERI, Glenns Ferry, Idaho. Filed Nov. 16, 1931. Serial No. 575,451. 1 Claim. (Cl. 53—7.)

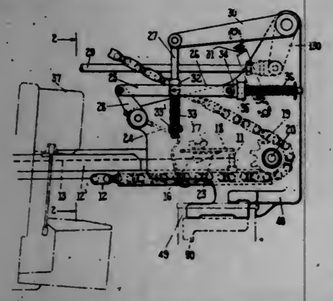
A doughnut cooking and turning device, including a utensil, a drum having a slatted bottom and having inner and outer split tubes arising from the bottom, a forami-

nous disc upon which the bottom rests, rods hingedly secured to the disc and having arched arms to rest upon the top of the utensil, and said utensil and cylinders designed to receive therein and to have arranged thereabout doughnuts to be cooked in the grease in the receptacle and tubes, and a turner for the doughnuts comprising a bottom which includes inner and outer spaced flat rings, an inverted U-shaped member secured to the outer ring, plates connected to the outer ring and to the



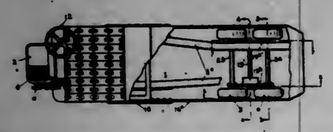
top of the inverted U-shaped member, another plate also connected to the top of the inverted U-shaped member and having a lower flange arranged within the area of the inner ring and said rings and the elements connected therewith being arranged to permit of the rings and the offset end of the last-named element being received respectively in and adjacent to the outer wall of the outer tube and the inner wall of the inner tube for contacting and turning the doughnuts in said tubes and utensil.

1,918,288. LOOM HAVING A STATIONARY WEFT SUPPLY. WILLIAM POOL, Spondon, near Derby, England, assignor to Celanese Corporation of America, a Corporation of Delaware. Filed Sept. 9, 1931, Serial No. 561,839, and in Great Britain Sept. 12, 1930. 5 Claims. (Cl. 139—126.)



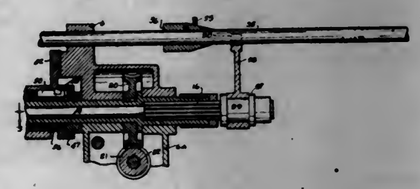
1. Weft-measuring apparatus for looms having a stationary weft supply, said apparatus comprising means for drawing a measured loop of weft, and means into engagement with which the weft is brought by the loop-forming means so as to form a subsidiary loop within the main loop during the formation of the main loop.

1,918,289. INDUSTRIAL TRUCK. EDWARD H. REMDE, Cleveland, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 29, 1927, Serial No. 229,578. Renewed Apr. 8, 1932. 7 Claims. (Cl. 180—22.)



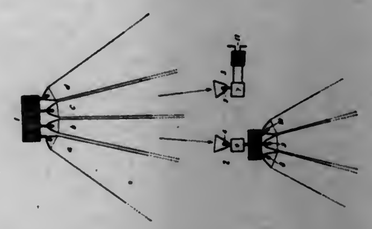
1. In apparatus of the class described, the combination of a frame having a relatively low load supporting section at one end, a pair of steerable wheels for supporting the opposite end of said frame, a mounting between the axle for said steerable wheels and said frame to permit relative movement between the axle and frame, pairs of load supporting wheels below said load supporting section arranged in spaced relation longitudinally of said frame, and a mounting for said load supporting wheels permitting them to independently move vertically relative to each other, the last mentioned mounting comprising a pair of members independently trunnioned on a fixed, transverse axis disposed between said pairs of wheels to permit movement of said members relatively to each other and axles for said pairs of wheels, each axle being non-rotatively connected to one member and rotatively connected to the other member.

1,918,290. METAL CUTTING MACHINE. BERNARD P. SCHILTZ, Cleveland, Ohio, assignor to The Foote-Burt Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 4, 1929. Serial No. 360,399. 23 Claims. (Cl. 10—134.)



1. In a tapping machine wherein the tap is in threaded engagement with a plurality of blanks, at one time, means to fixedly hold one of the blanks against lateral and turning movement, and means to intimately embrace and hold another blank against turning while permitting lateral movement thereof in any direction.

1,918,291. ARRANGEMENT FOR BROADCASTING ON WAVES OF ONE METER AND ONE DECIMETER. FRITZ SCHRÖTER, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Apr. 5, 1930, Serial No. 441,973, and in Germany Apr. 24, 1929. 2 Claims. (Cl. 250—11.)



2. An ultra short wave repeating system for relaying signals of the order of one meter or so having, in combination, a transmitting station and a repeating station within the range of optical vision, said transmitting station having a highly directive reflector antenna arranged to concentrate the transmitted radiant energy in a direction towards said repeating station, said repeating station comprising a receiving directive antenna pointed at said transmitting station and a plurality of transmitting directive antennæ pointed away from said transmitting station, and parabolic reflectors for all of said antennæ.

1,918,292. MOUNTING FOR AUTOCOLLIMATORS. EDWIN J. SEIDENBERG, Toledo, Ohio, assignor to Libbey Cataphote Corporation, Toledo, Ohio, a Corporation of Ohio. Filed May 18, 1931. Serial No. 538,366. 8 Claims. (Cl. 88—1.)



1. A mounting for an autocollimator comprising a cup shaped member adapted to receive an autocollimator, a plurality of tabs formed from the side of said member and adapted to be bent upon the sides of said autocollimator, outwardly extending V-shaped projections formed on the ends of said tabs, a panel, an opening in said panel adapted to engage frictionally one face of said V-shaped projections, the objective lens of said autocollimator extending through said opening.

1,918,293. RUNGLESS LADDER. ERNEST L. SEILER, Stockton, Calif. Filed Mar. 2, 1931. Serial No. 519,305. 4 Claims. (Cl. 228—1.)



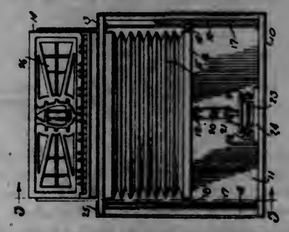
4. A rungless ladder comprising a vertical standard unit supported by the ground, means for holding the unit in spaced relation to a wall a distance greater than the thickness of a human being and so that the unit is prevented from tilting toward the wall, occupant supporting means disposed intermediate the wall and standard unit whereby the occupant will be disposed in a corresponding position in facing relation to the wall, and means mounting said supporting means on the standard unit for vertical adjustment.

1,918,294. CELLULOSIC ARTICLE AND METHOD OF PREPARING THE SAME. GEORGE W. SEYMOUR, Cumberland, Md., assignor to Celanese Corporation of America, a Corporation of Delaware. Filed Apr. 28, 1932. Serial No. 608,140. 20 Claims. (Cl. 91—68.)

1. The method of rendering surfaces of articles more impermeable comprising applying to surfaces of articles a coating comprising triacontane.

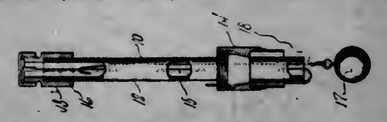
20. Films or foils of cellulosic material which are relatively impervious to moisture having on at least one surface thereof a layer comprising triacontane, a derivative of cellulose, a plasticizer for the derivative of cellulose, and a resin.

1,918,295. MUSICAL INSTRUMENT. CLIFFORD R. SMITH, Ashtabula, Ohio. Filed Jan. 11, 1932. Serial No. 586,016. 14 Claims. (Cl. 84—356.)



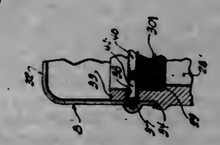
11. In a reed musical instrument, a housing support, a reed musical instrument mounted thereon and having a reed section, a resonance chamber and a key board, and a foot operated double action single bellows within the housing support in direct communication with the reed section of the musical instrument.

1,918,296. INDICATING DEVICE. ALWIN G. STEINMAYER, Milwaukee, Wis., assignor, by mesne assignments, to Line Material Company, a Corporation of Delaware. Filed May 1, 1929. Serial No. 359,440. 4 Claims. (Cl. 200—121.)



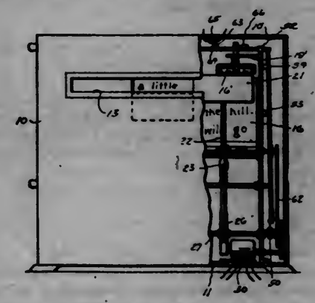
1. The combination with a fuse structure of the character described having a fuse tube and a fuse element positioned therein, of a normally visible indicating member, and means carried by the indicating member and passed into the fuse tube to be connected with the fuse element intermediate the ends of said element whereby the indicating member is supported entirely by the fuse element and rupture of the fuse element causes said indicating member to be blown clear of the fuse structure.

1,918,297. SWITCH STRUCTURE. FELIX J. STUCKERT, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed July 13, 1931. Serial No. 550,434. 2 Claims. (Cl. 247—5.)



2. In a switch mechanism, a receptacle, a terminal head within the receptacle, a cover for the receptacle, an expanding spring ring adapted to be contracted to fit within the receptacle above the terminal head, and projections carried by said spring ring and extending through apertures in the receptacle to engage the cover, whereby the sping ring simultaneously detachably secures the terminal head in the receptacle and the cover to the receptacle.

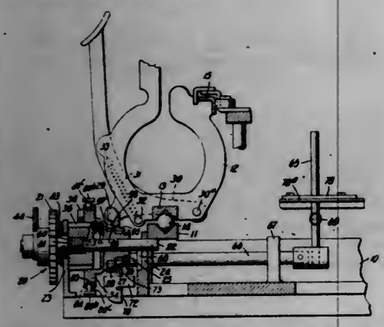
1,918,298. EDUCATIONAL DEVICE. JAMES Y. TAYLOR, Brownwood, Tex., assignor of two-fifths to Douglas Coalson, Brownwood, Tex. Filed Apr. 18, 1932. Serial No. 605,878. 10 Claims. (Cl. 35—9.)



1. In an educational device, a casing having a window, an exhibitor mounted within the casing and bearing indicia or symbols for display through the window, panels

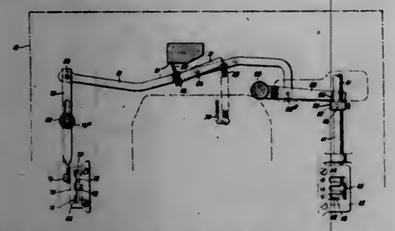
carried by the casing and closing said window, means for operating said panels in sequence from left to right, whereby portions of each line of indicia are displayed in sequence.

1,918,299. VARIABLE FEED MECHANISM FOR TYPEWRITER CARRIAGES. FRANK H. TREGO, New York, N. Y., assignor, by mesne assignments, to Ralph C. Coxhead Corporation, New York, N. Y., a Corporation of Delaware. Filed May 10, 1929. Serial No. 361,899. 28 Claims. (Cl. 197—84.)



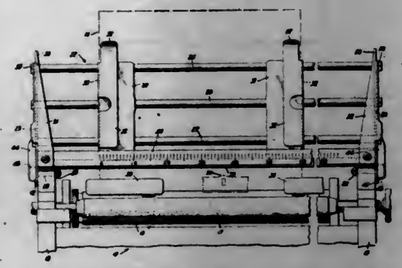
1. In a typewriting machine, the combination of a carriage, means including a shaft for controlling the feeding movements of said carriage, a sleeve mounted on said shaft to rotate therewith, pinions formed on said sleeve, said sleeve having an annular groove formed therein, a rack pivoted on the carriage and adapted to be engaged by and to engage the pinions selectively, said sleeve being supported on the shaft for axial movement with respect thereto, a selector shaft, an operating lever for the selector shaft, a guide plate to control the rocking and axial movements of the operating lever, an actuating lever mounted on the selector shaft, a release lever engaged by the actuating lever, means on the release lever for engaging the rack to move the latter out of engagement with the pinions, a shift lever, a connection between the selector shaft and shift lever for transmitting the axial movement of the selector shaft to the shift lever, and fingers on the shift lever engaging in the groove on the sleeve to effect a shifting of said sleeve to carry the desired one of the pinions into co-operative relation with said rack.

1,918,300. MEANS TO VARY THE BLOW OF THE PRINTING HAMMER. FRANK H. TREGO, New York, N. Y., assignor, by mesne assignments, to Ralph C. Coxhead Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 15, 1929. Serial No. 399,732. 24 Claims. (Cl. 197—49.)



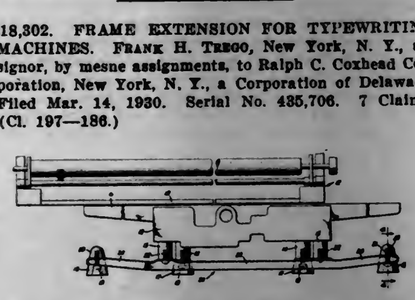
6. In a typewriting machine, the combination of printing instrumentalities including a hammer, a spring to actuate the printing hammer, variable carriage feed mechanism, means to set the variable carriage feed mechanism, and means whereby the force of the hammer spring may be varied by the setting means.

1,918,301. PAPER GUIDING AND GAUGING MEANS. FRANK H. TREGO, New York, N. Y., assignor, by mesne assignments, to Ralph C. Coxhead Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 15, 1929. Serial No. 399,733. 19 Claims. (Cl. 197—127.)



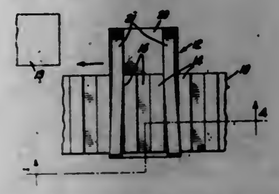
1. In a typewriting machine, the combination of printing means including settable types and a hammer to co-operate therewith, a carriage, feed rollers on said carriage and located below the printing means to feed a work sheet between the type and said hammer, means including a channel shaped guide to embrace the side edge of the work sheet to guide it vertically from the feed rollers to the printing means, means to support said guide on said carriage, a scale on said carriage to assist in locating the guide lengthwise of the carriage, and means whereby said scale is shiftable into co-operative relation with said guide, the movement of said scale being limited by said guide.

1,918,302. FRAME EXTENSION FOR TYPEWRITING MACHINES. FRANK H. TREGO, New York, N. Y., assignor, by mesne assignments, to Ralph C. Coxhead Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 14, 1930. Serial No. 435,706. 7 Claims. (Cl. 197—186.)



2. In a typewriting machine, the combination of a main-frame, a carriage supported thereon, a cross-bar secured to the main-frame and located beneath it, the cross-bar extending at each side upwardly and outwardly from the main-frame, and feet secured to the outer ends of the cross-bar.

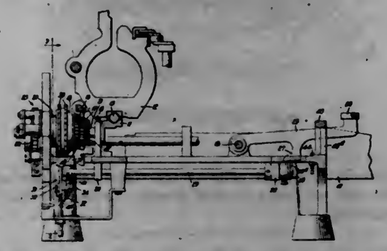
1,918,303. TABULATOR STOP. FRANK H. TREGO, New York, N. Y., assignor, by mesne assignments, to Ralph C. Coxhead Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 14, 1930. Serial No. 435,707. 9 Claims. (Cl. 197—70.)



7. The combination of a stop bar having teeth, and a U-shaped stop detachably supported thereon, said stop

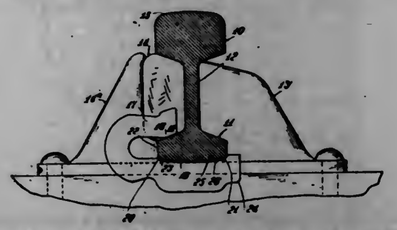
including two arms with slots therein to embrace the stop bar, the end of one of said arms having a flaring portion to engage the adjacent tooth to hold the stop on the bar.

1,918,304. BACK SPACING MECHANISM FOR TYPEWRITING MACHINES. FRANK H. TREGO, New York, N. Y., assignor, by mesne assignments, to Ralph C. Coxhead Corporation, New York, N. Y., a Corporation of Delaware. Filed May 31, 1930. Serial No. 457,676. 4 Claims. (Cl. 197—91.)



1. In a typewriting machine, the combination of a carriage, escapement mechanism including a ratchet, pinions connected to the ratchet, a rack to engage anyone of said pinions, means to shift the pinions with the ratchet to carry the desired pinion into engagement with said rack, and a back spacer pawl to engage said ratchet, said pawl being of sufficient width to always engage the ratchet.

1,918,305. RAIL ANCHOR. HAROLD G. WARR, Park Ridge, Ill., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 28, 1930. Serial No. 498,791. 9 Claims. (Cl. 238—330.)



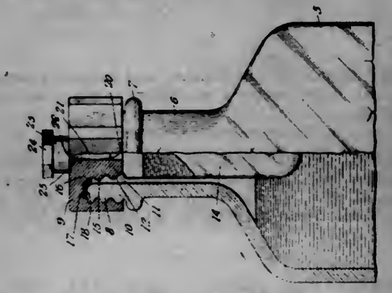
1. A rail anchor adapted to be driven transversely of a rail into gripping engagement therewith comprising a body portion curved and adapted to seat against a correspondingly curved bottom surface of the rail, and a jaw at one end of the body for engaging over a portion of the rail to clamp the curved body in its position on the rail.

1,918,306. ROD COUPLING. SAMUEL F. WILLIAMS, San Diego, Calif. Filed Jan. 28, 1931. Serial No. 511,750. 3 Claims. (Cl. 287—116.)



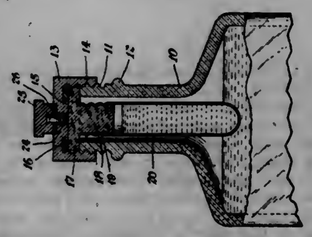
1. A rod coupling consisting of a rod provided with laterally extending portions in opposite directions at its opposite ends, a single piece connector member provided with a channel extending from the center laterally to the outside therein from each end thereof, and a lateral opening from the opposite side of said connector member intersecting each of said channels inwardly from each end of said connector member, each of said channels and openings arranged to receive one end of said rod and lateral extending portion, said connector member being threaded at its opposite ends, and nuts adapted to fit over the main portion of said rod and screw on said threaded portions of said connector member for holding said rods in axial alinement with said connector member.

1,918,307. BOTTLE CLOSURE. CALVIN R. WEBBER, New York, N. Y., assignor to The Packer Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 25, 1930. Serial No. 447,175. 7 Claims. (Cl. 215—6.)



1. The combination with a container having a hollow circular neck and a screw thread on its upper portion, of a cap engageable thereon, a plug integral with said cap to extend concentrically into the neck, said plug having a threaded exterior, an auxiliary receptacle to extend into the main container and engage the threads of said plug, said receptacle having a yielding marginal flange, and packing washers in said cap above and below said flange.

1,918,308. CONTAINER. CALVIN R. WEBBER, Brooklyn, N. Y., assignor to The Packer Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 3, 1930. Serial No. 499,620. 8 Claims. (Cl. 215—6.)

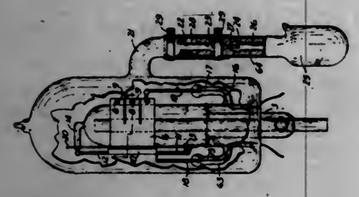


1. A container comprising a main compartment having an externally threaded neck, a cap having internal threads adapted to fit over the end of said neck and form a tight seal therewith, a sealing disc of yielding material fitting loosely within said cap and held between the interior surface of said cap and the end of said neck, said disc having a downwardly extending stopper portion, and an auxiliary container adapted to be inserted in said neck and detachably carried by said stopper portion.

1,918,309. GLOW DISCHARGE LAMP. HOWARD W. WEINHART, Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1930. Serial No. 441,792. 7 Claims. (Cl. 176—122.)

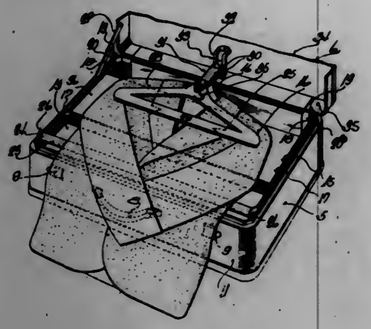
1. A glow lamp comprising a bulb containing a gas charge, a plurality of electrodes and an insulating cham-

ber, one of said electrodes having an extended flat face for receiving an electric discharge, means for supplying a



cooling medium to said chamber, and means for securing said flat faced electrode in thermal contact with said chamber.

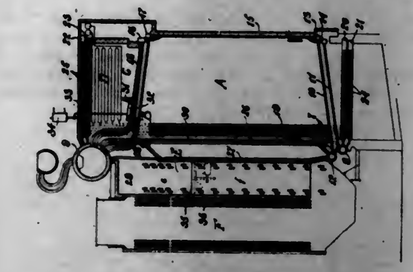
1,918,310. HAND LUGGAGE. GEORGE HENRY WHEARY, Racine, Wis., assignor to Wheary Trunk Company, Racine, Wis., a Corporation of Wisconsin. Filed June 11, 1930. Serial No. 460,412. 5 Claims. (Cl. 190—41.)



1. In a hand luggage case including a main section and a cover therefor, means for supporting garments within the case comprising, a rigid self-supporting garment carrier having a part over which garments may be folded, means mounting said carrier in the case so that the carrier is held stationary in the case when closed, a garment receiving member upon which garments are draped preparatory to being folded over said carrier part, means for connecting the garment receiving member with the cover of the case to facilitate arrangement of the garments on said carrier, the point of connection of said means with the cover moving toward a garment on the carrier during closing of the cover, and said connecting means being flexible whereby the garment receiving member remains stationary within the garment during closing of the cover.

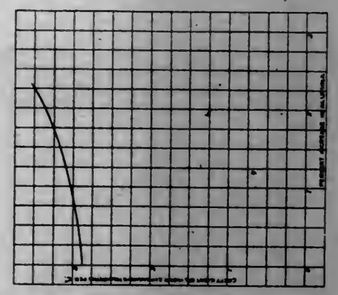
1,918,311. SUPERHEAT CONTROL. WILFRED R. WOOD, London, England, assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed May 17, 1930. Serial No. 453,198. 4 Claims. (Cl. 122—235.)

1. A furnace-shaped boiler having an upper drum, a superheater at the top of the chamber, a plurality of screening tubes extending between the superheater and the active part of the boiler and rising upwardly at their inner ends to connect with the drum and to be subject to gases leaving the space in which the superheater is located, an off-take including a gas by-pass passage at one side of the superheater, a baffle carried by said tubes and a movable damper forming part of said baffle, located in



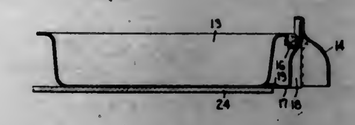
advance of the inner ends of the tubes below the superheater, and disposed in said passage to control the flow therethrough.

1,918,312. BORO-SILICATE BONDED ALUMINOUS ABRASIVE. CHARLES E. WOODDELL, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed Oct. 23, 1929. Serial No. 401,951. 4 Claims. (Cl. 51—280.)



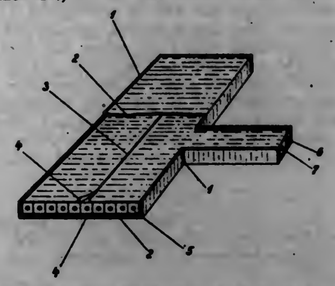
4. A bonded abrasive article comprising abrasive grains and a bond consisting principally of a boro-silicate glass in which the coefficient of expansion of the bond is less than that of the grain by substantially more than 20 per cent.

1,918,313. SELF-FREEING ICE TRAY. SVEN W. E. ANDERSSON, New York, N. Y., assignor to Servel, Inc., New York, N. Y., a Corporation of Delaware. Filed May 6, 1931. Serial No. 535,368. 7 Claims. (Cl. 62—108.5.)



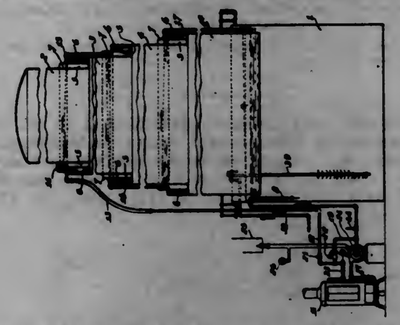
1. The combination with an ice tray adapted to be supported in heat exchange relation with a cooling element, of a handle for said tray, and a wedge associated with said handle in a manner such that it is insertable between the tray and its support responsive to the force exerted on the handle.

1,918,314. ELECTRIC IMMERSION HEATER FOR HIGH TEMPERATURES. KASPAR BADER, Berlin-Grunewald, Germany. Filed Mar. 13, 1931, Serial No. 522,441, and in Germany, Mar. 17, 1930. 2 Claims. (Cl. 219—41.)



1. Electric immersion heater capable of producing and sustaining temperatures of 800° C. in the material being heated, comprising a plurality of ready-burnt ceramic elements having apertures and arranged in at least one row to form at least one continuous channel, a resistance winding in said channel, a thin heat-permeable difficultly oxidizable metal jacket around said elements, and a sealed housing of cheap oxidizable metal surrounding said jacket, whereby said jacket protects said metal winding from detached fragments of said housing.

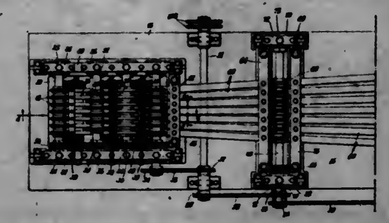
1,918,315. GAS HOLDER SEAL HEATING SYSTEM. CHARLES I. BAKER, Louisville, Ky. Filed Dec. 13, 1929. Serial No. 413,830. 1 Claim. (Cl. 48—177.)



In a gas holder, the combination of a bell consisting of a series of telescoping sections having water seals between adjoining sections, means for supplying heating water at uniformly spaced points about the holder to the surface of the seal on the lower end of each section, and overflow pipes arranged midway between said supply means for conducting the heating water from the surface of each seal to the surface of the next lower seal, the upper end of said overflow pipes being disposed in line with the surface of the sealing water in the trough to which they are attached and their lower end likewise disposed in line with the surface of the sealing water in the trough into which they empty, whereby the heating water supplied to the surface of an upper seal is caused to flow successively over the surfaces of the succeeding lower seals.

1,918,316. METHOD OF EXPANDING METAL LATH. HERBERT K. BAKER, Detroit, Mich., assignor to Penn Metal Company, Parkersburg, W. Va., a Corporation of Massachusetts. Filed Apr. 24, 1929. Serial No. 357,643. 21 Claims. (Cl. 164—6.6.)

19. The herein described process of expanding the meshwork of a slitted metallic blank having strands and strand interconnecting bridges which lie in planes at least parallel to the general plane of the blank, which includes the steps of slightly opening the meshwork by bending the strands thereof with respect to the connecting bridges so that their longitudinal extension is at an angle to the general plane of the blank so as partially to expand the meshwork, and subsequently subjecting the meshwork to

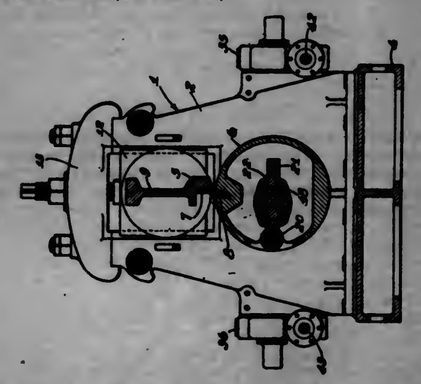


an opening pull substantially within the said general plane of the blank, whereby the second mentioned step completes the expansion of the meshwork by additionally bending the strands in a manner similar to that set forth in the first step, even though the strands and connecting bridges were originally disposed in planes at least adjacent to the general plane of the blank.

1,918,317. ELECTRICAL RESISTOR ROD. RAYMOND C. BENNER and HENRY N. BAUMANN, Jr., Niagara Falls, N. Y., assignors, by mesne assignments, to The Globar Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Oct. 24, 1927. Serial No. 228,492. 6 Claims. (Cl. 201—766.)

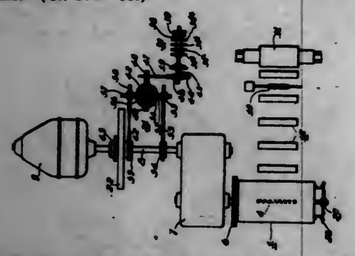
6. A silicon carbide resistor having an externally applied surface glaze thereover, which glaze is free of silica compounds and contains compounds of titanium oxide.

1,918,318. SHEARING APPARATUS. FLORENCE C. BIGGERT, Jr., Crafton, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 11, 1932. Serial No. 598,193. 15 Claims. (Cl. 164—68.)



1. In a rotary cutter for operating on moving material the combination of a blade carrier mounted for rotation about a fixed axis, a rotary driving element for actuating said carrier mounted for eccentric adjustment with respect to the axis of the carrier and an adjustable means connecting said driving element to said carrier, said connecting means being so constructed as to vary the speed of said carrier during each revolution as the distance between the center of said driving element and a fixed point on the periphery of said carrier varies as the driving element is rotated.

1,918,319. FLYING SHEAR. FLORENCE C. BIGGERT, Jr., Crafton, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 1, 1932. Serial No. 620,317. 8 Claims. (Cl. 164—68.)



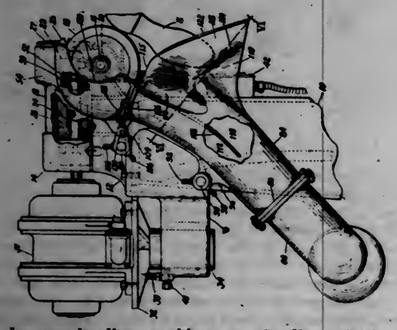
1. In combination, a flying shear, a variable speed motor for driving said shear, a drive shaft coupling said motor to said shear, an inertia wheel mounted loosely upon said shaft, means for releasably connecting said wheel to the shaft, means for feeding stock at a uniform speed to said shear, means for varying the speed of said shear motor, means arranged at a preselected distance from said shear to be operated by the leading end of a piece of stock fed thereto by said feeding means for disconnecting said inertia wheel from said shaft and placing said motor speed varying means in operation, and means operated jointly by said fly wheel and said shear shaft for rendering said motor varying means inoperative and reconnecting the inertia wheel to said shaft.

1,918,320. METHOD OF AND APPARATUS FOR BUILDING PNEUMATIC TIRE CASINGS. WALLACE H. CAMPBELL, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 23, 1928. Serial No. 280,106. 6 Claims. (Cl. 154—14.)



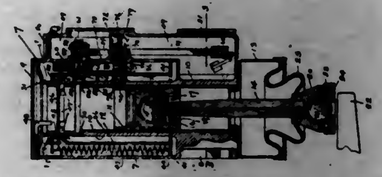
1. A tire building machine comprising an endless conveyor for supporting in succession a plurality of the elements of a pneumatic tire casing, a tire building drum disposed tangently to the conveyor, a roller engaging the conveyor on the side thereof directly opposite the drum, and means for supporting the drum in variable relation to the conveyor.

1,918,321. ABRADING MACHINE. HERBERT L. CHAPIN, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 11, 1929. Serial No. 339,179. 2 Claims. (Cl. 51—273.)



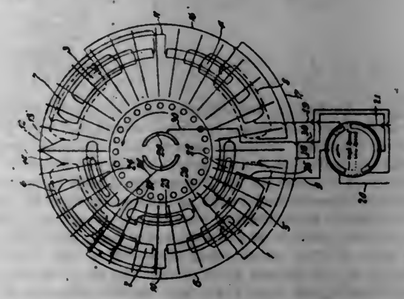
1. In an abrading machine, an abrading wheel, and a dust collecting member having a portion in the form of a funnel having its large open end adjacent to the periphery of said wheel to receive dust from the work, another portion of said dust collecting member being in the form of an open-bottomed V-shaped trough lying in the plane of said wheel and opening at one end into said funnel through the wall of said funnel to receive additional dust from the work, the opposite end of said trough being closed and being below the level of the first-mentioned end, and the remaining portion of said dust collecting member being in the form of a conduit providing communication between the intake of a suction draft system and the small end of said funnel, said conduit also providing communication between the suction draft system and the bottom of said trough.

1,918,322. CUSHIONING DEVICE. GROSVENOR M. CROSS, Belvedere, Calif. Filed Apr. 6, 1927. Serial No. 181,426. 24 Claims. (Cl. 267—64.)



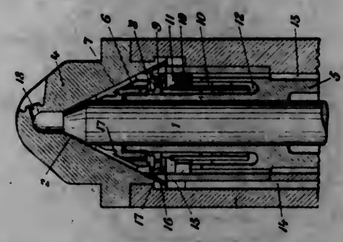
1. A cushioning device comprised of a pair of telescopically arranged members having the free ends thereof connected to a pair of movable bodies; a cushioning element interposed between the opposite ends of said members; means operable by the cushioning element by reason of an external force applied to one of the members to control directional movement of the cushioning element; and means to check the directional movement of the cushioning element after the initial movement caused by the external force.

1,918,323. MULTISPEED SPLIT PHASE MOTOR. CLINTON H. DEDERICK and WILBUR R. APPLEMAN, St. Louis, Mo., assignors to The Emerson Electric Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed Mar. 7, 1931. Serial No. 520,775. 10 Claims. (Cl. 172—278.)



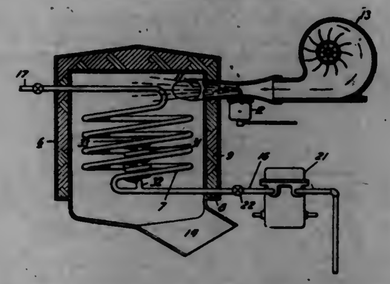
1. An alternating current induction motor including a plurality of main windings on the primary, said windings comprising groups of adjacent windings, the windings of each group being connected in series one with the other and differing in polarity, connections whereby certain groups may selectively be connected in series with the windings of the other groups in such a manner that the adjacent windings of the different groups have the same polarity, leads from a pair of wires constituting a source of current supply, and means for selectively changing the speed characteristics of the motor comprising means to disconnect one of the leads from its supply wire and connect it to the other supply wire and to connect such disconnected supply wire to a connection between said groups, whereby the groups of windings will be connected in parallel and each main winding will be of a polarity different from its adjacent winding.

1,918,324. FUEL INJECTION DEVICE FOR INTERNAL COMBUSTION ENGINES. HEINRICH DINNER, Ennenda, Switzerland, assignor to the Firm Sulzer Frères Société Anonyme, Winterthur, Switzerland. Filed Mar. 8, 1932, Serial No. 597,436, and in Switzerland Mar. 25, 1931. 5 Claims. (Cl. 299—107.7.)



1. In an upwardly-directed fuel injection device for engines of the kind in which the fuel and air are injected together into the cylinder, the combination with a needle valve of a preliminary fuel storage chamber below the level of the valve seating, a chamber or conduit from which fuel is introduced above the level of the preliminary chamber, a structure between the seating and preliminary chamber such that a portion of the fuel is retained by parts of this structure as the fuel passes under the action of gravity towards the preliminary chamber, and an air supply conduit communicating with the preliminary chamber for the purpose set forth.

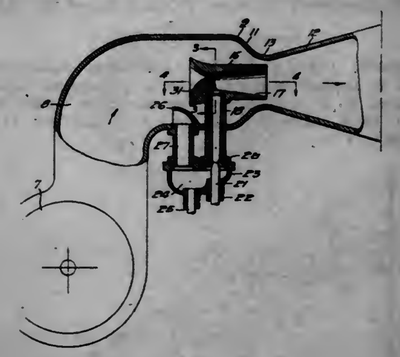
1,918,325. FLUID CUSHION. WARREN DOBLE, Emeryville, Calif., assignor to Doble Steam Motors Corporation, Wilmington, Del., a Corporation of Delaware. Filed Oct. 30, 1929. Serial No. 403,494. 19 Claims. (Cl. 122—250.)



4. A fluid cushion comprising a tube containing liquid subject to pulsations, a chamber connected to said tube close to the source of said pulsations and containing said fluid, and means for vaporizing fluid in said chamber to act as a vapor cushion.

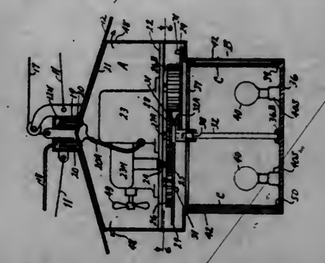
1,918,326. BURNER. WARREN DOBLE, Emeryville, Calif. Filed Mar. 6, 1931. Serial No. 520,619. 6 Claims. (Cl. 261—63.)

1. In a burner including a conduit having a Venturi section through which an air-stream is passed, a Venturi tube positioned in the conduit ahead of the Venturi section and adapted to discharge air passing therethrough substantially at the throat portion of the Venturi section, a fuel conduit extending through the conduit and opening into the Venturi tube adjacent the throat thereof, the fuel conduit serving to convey fuel into the Venturi tube, and means for effecting cavitation of air



passing through the Venturi tube substantially over the fuel conduit opening in the Venturi tube whereby a substantially homogeneous air-fuel mixture is supplied from the Venturi section for subsequent ignition.

1,918,327. TRAFFIC SIGNAL. DOUGLAS H. DYER and WILLIAM F. RODENKIRCHEN, St. Paul, Minn.; said Douglas H. Dyer assignor to William M. Dyer, St. Paul, Minn. Filed Nov. 14, 1931. Serial No. 575,083. 6 Claims. (Cl. 116—63.)



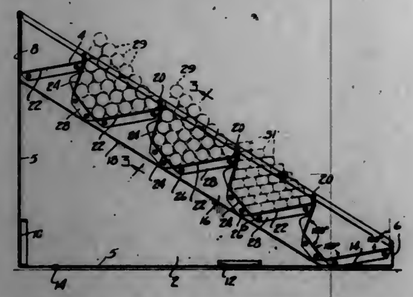
1. In a traffic signal of the class described comprising an upright cylindrical housing adapted to be mounted at a traffic intersection; said cylindrical housing embodying an upper mechanism chamber and therebelow a signal chamber, and said signal chamber provided with a plurality of horizontally exposed circularly arranged openings, a stationary outer cylindrical glass closing said openings, an inner translucent signal cylinder, a vertical central shaft rotatable in said signal chamber, a web member fixed on said shaft and retaining the signal cylinder in concentric relation thereto, an actuator arm in the upper chamber on said shaft, continuously operating driving means suitably mounted in the upper chamber, means in said chamber and actuated by said driving means to cause contact with said actuator arm at predetermined intervals to rotate the said signal cylinder one-quarter of a circle for each contact of the arm.

1,918,328. PROCESS OF VULCANIZING RUBBER. HARRY L. FISHER, Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed Aug. 20, 1931. Serial No. 558,334. 46 Claims. (Cl. 18—53.)

5. A process of producing vulcanized rubber products which comprises effecting vulcanization of the rubber

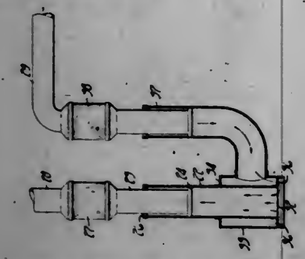
by means of 3–10 parts by weight based on the rubber of a quinone compound containing halogen attached to the quinone nucleus as a vulcanizing agent, the temperature of treatment being such as to require not more than about three hours for proper vulcanization of the rubber.

1,918,329. DISPLAY STAND. JOHN GORE, Canajoharie, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a Corporation of New York. Filed Jan. 21, 1932. Serial No. 587,840. 3 Claims. (Cl. 211—137.)



3. A display stand of the class described comprising vertical side walls and shelves extending between the side walls one in front of the other in an upwardly and rearwardly inclined plane, each shelf having a front rail, a bottom wall inclined slightly downwardly from the front rail, and a rear wall having upper and lower portions inclined forwardly at an obtuse angle to each other.

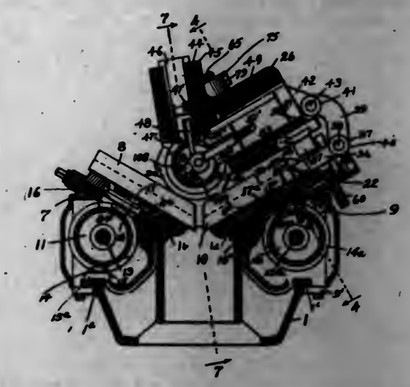
1,918,330. UNLOADING SYSTEM. SHERWOOD GREEN, Berkeley, Calif. Filed July 28, 1931. Serial No. 553,595. 5 Claims. (Cl. 302—34.)



1. Apparatus for unloading cotton comprising a pneumatic conveyor, a telescopic joint in said conveyor for enabling longitudinal adjustment of the conveyor, a universal joint in the conveyor for enabling lateral positioning of its inlet end, and a conduit for conducting treating gas to the cotton prior to its travel through the conveyor, a telescopic joint and a universal joint in said conduit for enabling said conduit to follow the movements of the inlet end of said conveyor, the telescopic joint of said conveyor being concentric with the telescopic joint of said conduit.

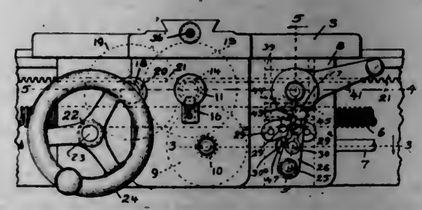
1,918,331. COMBINED ECCENTRIC AND CONCENTRIC TURNING APPARATUS. WILLIAM F. GROENE and ARTHUR W. AUFDERHAR, Cincinnati, Ohio, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 24, 1931. Serial No. 517,729. 20 Claims. (Cl. 82—2.)

1. In turning apparatus, a rotatable work holder, a tool holder, mechanism moving said tool holder to and from said work holder and simultaneously moving said tool holder eccentrically to the axis of rotation of the work holder, a slide movable across said axis independently of said mechanism, a link supporting said mechanism to oscillate with the eccentric movement of the tool holder, and another tool holder held on said slide and moved across said axis by said slide independently of said mechanism.



6. In turning apparatus, a work holder and a tool-holding slide relatively rotatable and relatively movable across the axis of relative rotation, and mechanism co-ordinating the relative rotation and relative movement, a carrier operating in conjunction with said relative rotation to oscillate eccentrically to said relative rotation, mechanism comprising a shaft, an arm on said shaft, an intermediate slide engaged by said arm, a second shaft, a tool holding slide and arms on said second shaft engaging with the intermediate slide and the tool holding slide, and an operative connection comprising a rack, an arm geared to said rack, and means rotatable on said arm, and slidable relatively to said intermediate slide in the plane of oscillation of said carrier, transmitting motion from said co-ordinating mechanism to said intermediate slide during the oscillation of said carrier.

1,918,332. FEED-CHANGE MECHANISM FOR LATHES. WILLIAM F. GROENE, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 18, 1931. Serial No. 538,160. 7 Claims. (Cl. 82—22.)



1. In a lathe in which there is a carriage and an apron depending from the carriage and mechanism in back of said apron comprising a feed screw, a feed rod below the feed screw and a set of tool-feeding gears supported in said apron on front-to-rear axes, including a bevel gear, and a bevel pinion splined on the feed rod to shift into or out of mesh with said bevel gear and having an extended hub, said apron having a vertical slot in its back with undercut sides, a bearing block fixed in said slot and fitting said sides thereof and embracing said pinion hub and having a half bearing in its top supporting said feed screw, a half nut slidably fitting in said slot to shift up and down out of and into mesh with said feed screw,

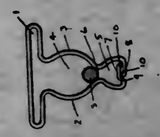
and devices movable on front-to-rear axes in said apron, one device comprising means for shifting said half nut and the other device comprising means for shifting said pinion.

1,918,333. MOLD CONSTRUCTION FOR PILING. STONE HALLQUIST, Milwaukee, Wis., assignor to S. M. Siesel Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 8, 1932. Serial No. 591,506. 6 Claims. (Cl. 25—118.)



1. A mold assembly, comprising a central elongated horizontally disposed plate, engaging means carried thereby, resilient side plates having their lower longitudinal marginal portions coacting with said engaging means, clamps adapted to releasably encircle the assembly and to flex said side plates, and means on the inner faces of said clamps engaging the upper longitudinal marginal portions of said plates to confine said plates under pressure and in flexed condition between said means and said engaging means to provide a molding chamber.

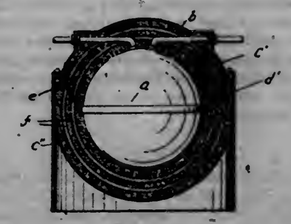
1,918,334. BUTTON LOOP. GEORGE B. HEATHER, West Haven, Conn., assignor to The Wire Novelty Manufacturing Company, West Haven, Conn., a Corporation of Connecticut. Filed Aug. 21, 1930. Serial No. 476,786. 1 Claim. (Cl. 24—224.)



A reversible button loop comprising a piece of resilient wire of which a middle portion is bent to form a suspension loop, the remaining portions cooperating to form associated loops in axial alignment and having an intermediate normally contracted throat, one arm being off-set in the plane of the loops within the adjacent loop and having its extremity bent axially away from said throat, and the other arm being bent into spaced parallel relation with, and overlapping in said plane, the off-set arm and having its extremity bent axially toward said throat, the bent extremities providing interengaging shoulders in said plane to limit the relative expanding movement of said arms in said plane, and a clip member securing the parallel arm portions against relative movement out of said plane.

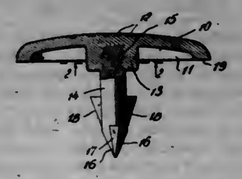
1,918,335. CONTAINER FOR LIQUEFIED GASES. CHRISTIAN WILHELM PAUL HEYLANDT, Lankwitz, Germany, assignor to Filiga Aktiengesellschaft, St. Moritz, Switzerland, a Corporation of Switzerland. Original application filed Nov. 21, 1927, Serial No. 234,914, and in Germany Dec. 27, 1926. Divided and this application filed May 21, 1929. Serial No. 364,956. 2 Claims. (Cl. 220—9.)

1. In a container for liquefied gases, the combination comprising an inner vessel for holding the liquefied gas, an outer casing enclosing a space about and supporting said vessel, the enclosing walls of said space being curved and having portions inclined at angles such as to serve as supports for inserted material, and porous heat insulating material having a relatively constant insulating characteristic inserted and disposed in said space about said vessel; said material being mainly supported by the upper wall of said vessel and the lower space enclosing walls of said casing and laid-in to form a plurality of interstices in said space which trap air providing an atmosphere of relatively dense still air whereby the lower



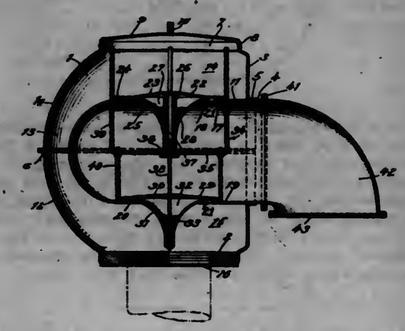
portions of said material sustain their own weight and that of the portions thereabove without becoming displaced.

1,918,336. PAVEMENT MARKER. PAUL P. HORNI, Newark, N. J. Filed Jan. 2, 1930. Serial No. 418,083. 2 Claims. (Cl. 94—1.5.)



1. A pavement marker, comprising a head, a stem thereon having a wedge-shaped tip, a pair of wedge-shaped barbs located on opposite sides of said stem adjacent the tip thereof for displacing the material into which the marker is driven, and a second pair of wedge-shaped barbs located on opposite sides of the stem above the first pair of barbs and offset laterally on the stem with respect thereto for displacing the material laterally into the spaces formed by the first pair of barbs, the lower edges of said second pair of barbs terminating substantially in the plane of the upper edges of the first pair.

1,918,337. BREATHER VALVE FOR TANKS. HENRY ALBERT JONES, Lynwood, Calif., assignor to Frank V. Long, Compton, Calif., trustee. Filed Jan. 4, 1930. Serial No. 418,551. 13 Claims. (Cl. 277—61.)



1. A breather valve having an outer casing of substantially circular form in plan, with an opening formed at one side thereof, an inner casing formed as a separate part extending in through the said opening, and making

a gas-tight connection with the edge of said opening, and having an upper wall with a valve opening of circular form and a lower wall with a valve opening of circular form, said valve openings being in substantially axial alinement with each other, valves having solid discs corresponding to the said valve openings, filling the entire area of the said openings, common guiding means for guiding both valves adjacent the central axis, and weights carried by the valve discs below the valve openings cooperating with the guiding means to hold the valves upright when they open.

1,918,338. PROCESS OF MAKING SILICYL COMPOUNDS. HANS KAUFMANN, Jena, Germany. Filed Nov. 13, 1929, Serial No. 406,974, and in Germany Nov. 16, 1928. 4 Claims. (Cl. 260—98.)

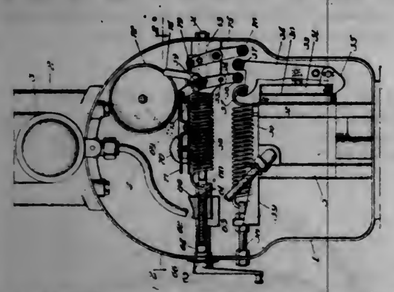
1. A process for preparing organic silicyl compounds consisting in causing hydroxy carboxylic acids esterified in the carboxyl group to interact with silicon compounds selected from silicon halides and esters of silicic acid.

4. A silicyl compound consisting of a hydroxy carboxylic acid having the hydrogen atom of the non-carboxylic hydroxyl group replaced by silicon and being esterified in the carboxyl group.

1,918,339. METHOD OF PURIFYING ALUMINUM. WILFRED D. KEITH, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 8, 1932. Serial No. 585,638. 3 Claims. (Cl. 75—58.)

1. The process of removing iron from aluminum connum containing excessive amounts thereof which comprises forming a melt containing said aluminum and magnesium, and thereafter dividing the melt into at least two separate portions, one of which is lower in iron content and higher in magnesium content than the aluminum from which the melt was originally formed.

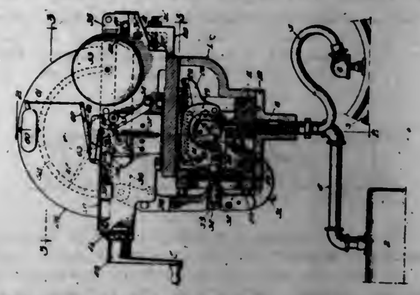
1,918,340. FLUID PRESSURE REGULATOR. GEORGE A. KNAAK, Milwaukee, Wis. Filed Sept. 13, 1929. Serial No. 392,334. 36 Claims. (Cl. 73—12.)



1. A pressure regulator comprising a control housing having an inlet valve for connection to a source of fluid under pressure and an outlet valve for connection to a receiver, a measuring reservoir communicating with said control housing, and means responsive to a predetermined high fluid pressure in said housing to open said outlet valve and close said inlet valve and responsive to a predetermined minimum fluid pressure in said housing to close said outlet valve and open said inlet valve.

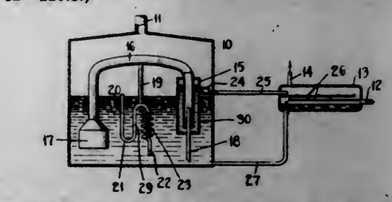
1,918,341. FLUID METER. GEORGE A. KNAAK, Milwaukee, Wis. Filed Apr. 24, 1930. Serial No. 446,897. 11 Claims. (Cl. 73—12.)

6. A fluid meter, comprising a single unit measuring reservoir having means to connect it to a source of fluid under pressure and to a receiver, a self-closing inlet valve interposed between said reservoir and said source, a self-closing outlet valve interposed between said reservoir and said receiver, means for causing a predetermined maximum pressure in the reservoir lower than at the source,



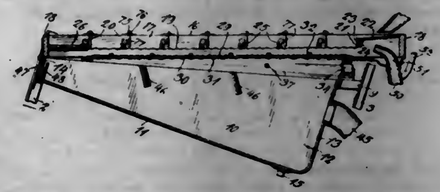
and valve operating means arranged within said reservoir and responsive to said fluid pressure therein to open said valves alternately to allow compressed fluid from said source to alternately fill said reservoir and be discharged into said receiver.

1,918,342. REFRIGERATION. PETER KÖHLER, Stockholm, Sweden, assignor, by mesne assignments, to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 12, 1931, Serial No. 521,988, and in Sweden May 1, 1930. 14 Claims. (Cl. 62—119.5.)



14. In an absorption refrigeration system of the pressure equalized type, a vapor liquid lift for circulation of absorption solution, a liquid column pressure relief valve for said lift, and an independent connection to said valve for replacement liquid.

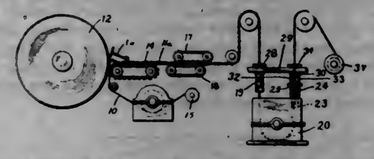
1,918,343. DRY CONCENTRATOR. ISAAC C. LIGHTFOOT, San Bernardino, Calif. Filed Sept. 28, 1931. Serial No. 565,434. 4 Claims. (Cl. 209—466.)



1. An apparatus for separating gold from dry powdered ore, or the like, comprising, in combination, a support formed in part by a box-like receptacle having its upper end open and inclined downwardly towards one end, a chute located above the receptacle and inclined in the same direction as the open end of the receptacle, the lower end of the chute being connected to the lower end of the receptacle by hinges, the sides and the other end of the receptacle being connected to the sides and corresponding end of the chute by means of flexible fabric, the bottom of the chute being formed of pervious material,

there being a pervious partition located beneath the bottom and spaced from the latter, a plurality of riffles extending transversely of the chute on the upper surface of the bottom, means for depositing a layer of material on the upper end of the chute, means for imparting to the chute an up and down vibration whereby the material will be agitated and made to move downwardly along the chute, means for blowing air into the receptacle whereby the air pressure therein will be increased above atmospheric and a flow of air produced through the pervious bottom of the chute and through the material, and mechanical means for stirring the material above the riffles.

1,918,344. APPARATUS FOR INSULATING WIRE. EDWARD A. MAU, Arlington, N. J., and ORRIN F. HUTCHINSON, New Haven, Conn., assignors to Rockbestos Products Corporation, New Haven, Conn. Original application filed Nov. 29, 1922, Serial No. 604,022. Renewed Oct. 21, 1927, now Patent No. 1,685,369, dated Sept. 25, 1928. Divided and this application filed Dec. 6, 1927. Serial No. 238,179. 26 Claims. (Cl. 173—244.)



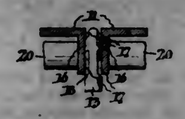
20. In apparatus for insulating a conductor with fibrous material, a pair of rotary spindles mounted with their axes in parallel, each being adapted to permit the conductor to pass axially therethrough, and means to receive the conductor as it passes in one direction from one of said spindles and to direct it in the opposite direction toward the other of said spindles.

1,918,345. JOIST, BEAM, GIRDER, AND THE LIKE. KERN W. MCHOSE, Philadelphia, Pa., assignor to McClintic-Marshall Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 22, 1928. Serial No. 301,280. 21 Claims. (Cl. 189—37.)



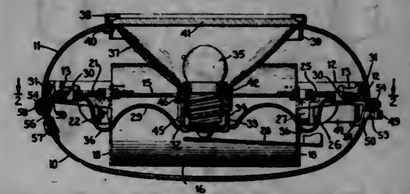
1. A structural metal unit comprising a chord, a bearing member disposed relatively close to a terminal thereof, a second chord spaced inwardly from the outer terminals of the first chord and bearing member, said chords and member formed of spaced-apart angle members, a web connecting said first and second chords and entered between the angle members, and a web connecting said first chord and the bearing member and entered between the angle members.

1,918,346. STRUCTURAL MEMBER. KERN W. MCHOSE, Narberth, Pa., assignor to McClintic-Marshall Corporation, a Corporation of Pennsylvania. Filed Jan. 13, 1930. Serial No. 420,363. 3 Claims. (Cl. 189—37.)



1. The method of fabricating a structural member comprising flat-sided longitudinals interconnected by a continuous zig-zag web element laterally spot-welded to said longitudinals at its bends, which method comprises bending a bar to the required zig-zag and forming lateral depressions in it at each bend, one of which is at the apex and the others in spacial relation to either side of said apex, and pressing the bends against the longitudinals while passing a welding current between the areas intervening said depressions so that transition from the deformed cross-section at such bends to the undeformed cross-section outside thereof is not included in the areas of fusion and welding.

1,918,347. FLASH LIGHT. AUGUST MITCHELL, New York, N. Y., assignor to The Chase Companies, Incorporated, Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 5, 1931. Serial No. 513,554. 6 Claims. (Cl. 240—10.65.)



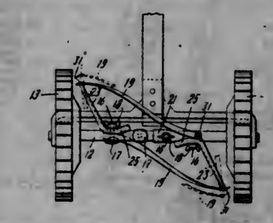
1. A flashlight comprising a flat spheroidal casing adapted to receive a standard cylindrical dry cell and an electric lamp, means extending exteriorly of said casing for controlling the operation of said lamp by said cell, and a handle hingedly secured to said casing and adapted to snugly surround the entire periphery of said casing when not in use, said handle abutting and being arrested by said controlling means when it surrounds said casing.

1,918,348. REMOVING AND CLEANING BALLAST. OTTO NEDDERMEYER, Wabern, Germany. Filed Mar. 14, 1932, Serial No. 598,788, and in Germany Sept. 22, 1930. 21 Claims. (Cl. 262—2.)



1. A plant for removing and cleaning ballast from which a portion of the track has been lifted, comprising a ballast-removing and cleaning machine, and mechanism anchored to the still unlifted track portion for pulling said machine through the ballast.

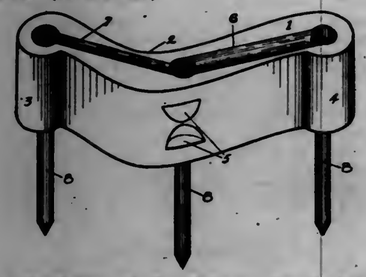
1,918,349. LAWN MOWER. HERBERT B. NEWTON and THOMAS C. NEWTON, Brookline, Mass., assignors to Auto Sickle Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 8, 1932. Serial No. 632,158. 5 Claims. (Cl. 56—249.)



1. A lawn mower which includes a driven axle, spider arms having bases seated on the axle, clamping means releasably attaching said bases to the axle, the arms being arranged in pairs and including outer portions inclined from the bases and provided with keepers at

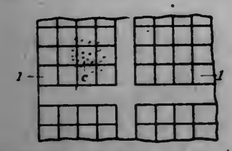
their outer ends, and flexible blades having orifices in their end portions adapted to engage said keepers therewith, each pair of spider arms being arranged to cause a spiral formation of the blade engaged therewith, the mower being characterized by means associated with the inner ends of the arms and with the axle for adjusting the arms relative to the axle to vary the distance of the spiralled blades from the axle.

1,918,350. FOOT HOLDER. JOHN FERD ROOS, Lewiston, Idaho. Filed June 13, 1932. Serial No. 616,908. 4 Claims. (Cl. 273—35.)



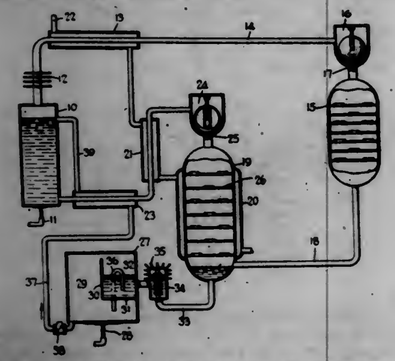
1. A foot-holder of the character described having grooves in its face, a plurality of foldable pins hinged and anchored in the holder and adapted when folded to lie in said grooves.

1,918,351. HÆMACYTOMETER. MAX SCHULZE, Berlin-Steglitz, Germany. Filed July 22, 1931, Serial No. 552,460, and in Germany Aug. 4, 1930. 1 Claim. (Cl. 88—40.)



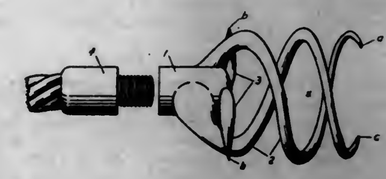
A hæmacytometer comprising a plate having grooves on its surface forming groups of squares, contiguous groups being separated by a blank space no less than 0.05 mm. wide.

1,918,352. ABSORPTION REFRIGERATING APPARATUS. ROBERT S. TAYLOR, Evansville, Ind., assignor to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 30, 1931. Serial No. 512,307. 7 Claims. (Cl. 62—5.)



1. In a refrigerating apparatus of the continuous absorption type, means for transferring absorption liquid from the absorber to the generator, said meann including a heated vessel and a heat opeated valve connected respectively in series between the generator and the absorber.

1,918,353. SEWER CLEANER. ARTHUR B. UTLEY, Springfield, Mo. Filed Nov. 28, 1932. Serial No. 644,633. 3 Claims. (Cl. 15—104.30.)



1. A sewer cleaner comprising a central hub having attached thereto a plurality of concentrically wound helical spiral parts forming intertwined screws, said spiral parts having their frontal ends pointed, curved radiating prongs attached to said central hub and having their outer ends pointed, means for securing said central hub to an operating cable whereby said cleaner may be screwed into a sewer obstruction.

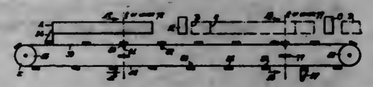
1,918,354. HYDRAULIC BRAKE FOR DROP HAMMERS. JULIUS URBANEK, Vienna, Austria, and ARTHUR SCHNEIDER, Dusseldorf, Germany. Original application filed May 10, 1928, Serial No. 276,577, and in Austria May 31, 1927. Divided and this application filed Oct. 16, 1929. Serial No. 399,990. 2 Claims. (Cl. 188—96.)

1. In a power hammer comprising a tup having a cavity containing braking liquid, a tup rod piston having a chamber therein and a plunger carried by the tup rod piston, braking means for said power hammer comprising an opening in the plunger providing communication between said cavity and said chamber, ducts in said plunger remote from the periphery thereof and providing paths for the passage of braking liquid from the space below the plunger to that above it, additional ducts adjacent the periphery of the plunger and providing paths for the passage of braking fluid from the space above the plunger to that below it, and a valve of sufficient area to overlie the first mentioned ducts but of insufficient area to overlie the second mentioned ducts.

1,918,355. PROCESS FOR THE PRODUCTION OF SULPHATES. CONWAY, BARON VON GIRSEWALD and ERICH STAHL, Frankfort-on-the-Main, Germany, assignors to American Lurgi Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 24, 1931, Serial No. 518,022, and in Germany Sept. 13, 1929. 5 Claims. (Cl. 23—117.)

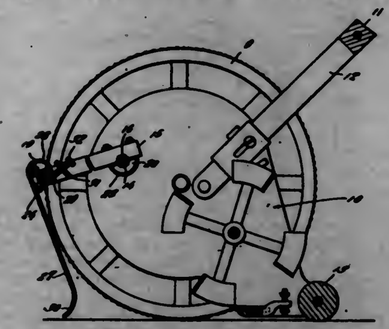
1. Process for the production of alkali metal sulphates and phosphates, which comprises introducing very finely divided air into an aqueous solution, into which sulphurous acid, in any convenient form and manner, is introduced as well as a water-soluble basic alkali metal phosphate.

1,918,356. MACHINE FOR FEEDING AND SHAPING METALLIC TUBES. CLARENCE W. VOGT, Louisville, Ky., assignor to The Girdler Corporation, Louisville, Ky., a Corporation of Delaware. Filed May 16, 1930. Serial No. 452,840. 18 Claims. (Cl. 153—32.)



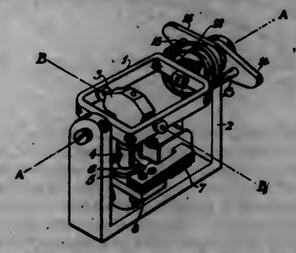
1. A machine for shaping tubes, including a mandrel rod, a die mandrel at the end thereof deformed in accordance with the ultimate shape of the tubing, drawing means for continuously forcing a plurality of tubes successively over said deformed end of the mandrel rod, a conveyor for continuously advancing a plurality of tubes successively into the field of action of said drawing means, two sets of restraining elements cooperating with said mandrel rod, means cyclically actuated in response to the operation of said conveyor for alternately releasing and closing said restraining elements to permit free and unobstructed passage of the advancing tube along said rod while said rod is continuously under restraining influence of one or the other of said sets of restraining elements.

1,918,357. LAWN MOWER ATTACHMENT. AUGUST JOSEPH WAGNER, Grenloch, N. J. Filed Sept. 27, 1932. Serial No. 635,077. 3 Claims. (Cl. 56—249.)



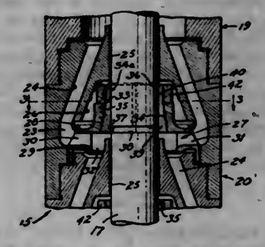
3. An attachment for lawn mowers comprising a rake and attaching means, said rake including a horizontal bar member rectangular in cross section and provided with cylindrical trunnion ends, teeth fixed to the bar member, said attaching means comprising a pair of arms in which the trunnion ends are journalled, oblique ears on the arms extending inwardly therefrom adjacent the bar, and set screws threaded to the ears for engagement with the bar to function as stops to limit the rocking of said bar.

1,918,358. SCANNING DEVICE FOR TELEVISION AND THE LIKE. GEORGE WILLIAM WALTON, London, England. Filed Mar. 10, 1932, Serial No. 598,075, and in Great Britain Feb. 19, 1931. 8 Claims. (Cl. 178—6.)



1. A scanning device for television, picture transmission and the like purposes, comprising a mirror mounted for vibration about an axis in fixed relation thereto, a member continuously rotatable about an axis and adapted to set said mirror in vibration and a mechanical coupling between said mirror and said member, said coupling comprising, upon said member, a pin adapted to move in a conical path around the axis of rotation of said member.

1,918,359. CENTRIFUGAL IMPELLER LOCKING THRUST ELIMINATING MEANS. ARTHUR R. WEIS, Huntington Park, Calif., assignor of one-half to Pacific Pump Works, Huntington Park, Calif., a Corporation of California and one-fourth to George E. Bigelow, Huntington Park, Calif. Filed Apr. 30, 1928. Serial No. 273,879. 10 Claims. (Cl. 103—102.)



1. In a deep well turbine pump, the combination of: an impeller shaft having an annular groove therein; a split sleeve surrounding said shaft, the exterior of said sleeve being tapered; a shoulder associated with said sleeve and adapted to fit into said groove when said sleeve is contracted on said shaft; an impeller supported on said sleeve, said impeller having a bore therethrough tapered to fit said sleeve; and means for forcing said impeller on said sleeve to contract said sleeve on said shaft.

1,918,360. SUCTION CLEANER. HARRY B. WHITE, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a Corporation of Ohio. Filed July 18, 1931. Serial No. 551,690. 4 Claims. (Cl. 15—179.)



1. In a suction cleaner, a body having a brush seat, spaced shoulders extended across said brush seat at different heights therein, a brush comprising a back, spaced shoulders at different heights on said back adapted to selectively contact said shoulders in said seat to position said brush therein means removably securing said shoulders on said back in contact with shoulders in said seat, characterized by the fact that said brush is adapted to be arranged in a plurality of positions in said seat, different shoulders selectively cooperating to give said brush different heights in said seat in the different positions.

1,918,361. METHOD OF MANUFACTURING SILICATES WITH BASE EXCHANGING PROPERTIES, OR SO-CALLED ARTIFICIAL ZEOLITES. ANDERS RUTGER WIBERG and PER MAGNUS EDVARD SCHÖN, Halsingborg, Sweden, assignors to Reymersholms Gamla Industri Aktiebolag, a Joint-Stock Company of Halsingborg, Sweden. Filed June 5, 1929, Serial No. 368,732, and in Sweden June 6, 1928. 3 Claims. (Cl. 23—112.)

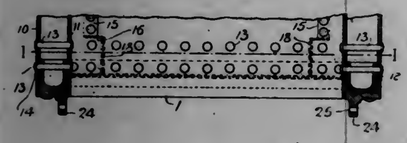
1. Method of manufacturing artificial zeolites characterized in that waste clay obtained in the manufacture of aluminium salts by decomposition of a substance

of the group consisting of natural aluminium silicates, bauxite and refractory clays by means of a strong acidic compound, is boiled under pressure in an aqueous mixture containing at least one basic oxygen compound of an alkali-forming metal.

1,918,362. PROCESS OF DISSOCIATING HYDROCARBON GASES AND VAPORS TO OBTAIN FINELY DIVIDED CARBON AND A MIXTURE OF NITROGEN AND HYDROGEN IN CONTROLLED PROPORTIONS. WILLIAM D. WILCOX, Lawrence, Kans. Filed Aug. 13, 1930. Serial No. 474,945. 6 Claims. (Cl. 23—7.)

1. The steps in the process of dissociating hydrocarbon gases and vapors to obtain finely divided carbon and a mixture of hydrogen and nitrogen in the volumetric ratio of three and one, which comprises heating the interior of a conduit having a filling of a refractory material to a temperature in excess of 2000° F. by maintaining an active combustion of fuel gas within the conduit, then passing through the conduit in a direction counter current to the travel of the combustion gases through the conduit a mixture of hydrocarbon gases together with air in such volume as will supply the desired proportion of nitrogen in the resultant gas, removing the entrained carbon from the issuing gas.

1,918,363. BOILER MUD RING STRUCTURE. GEORGE M. WILSON, Schenectady, N. Y. Filed Dec. 23, 1931. Serial No. 582,762. 1 Claim. (Cl. 122—369.)



In a locomotive boiler, the combination of a mud ring comprising integrally formed U-shaped members extending along opposite sides of the boiler fire box, each member having a base and two spaced walls united with and extending upwardly from the base providing therewith a channel open at the top, said spaced walls each having a longitudinal row of spaced threaded orifices near its upper edge, the orifices on one side being aligned with the orifices on the opposite side providing pairs, and said members having thickened portions on each side beginning at a point between the row of orifices and the bottom of said channel and extending below the bottom of said channel, to reinforce the union between said base and said walls, each of said thickened portions forming a shoulder with the adjacent upwardly extending portion of the wall; a boiler plate adjacent the exterior face of each of said upwardly extending portions and having perforations registering with said threaded orifices and having a lower edge spaced above the adjacent shoulder, said edge being welded to said shoulder to form an integral jointure between the plate and adjacent thickened portion; and a row of bolts each extending across the channel and having its respective ends threaded through the orifices of one of said pairs, extending through the perforations of the adjacent plates and headed over at its outer ends, whereby said extensions are rigidly held in fixed, spaced relation and said sheets are held snugly against said extensions.

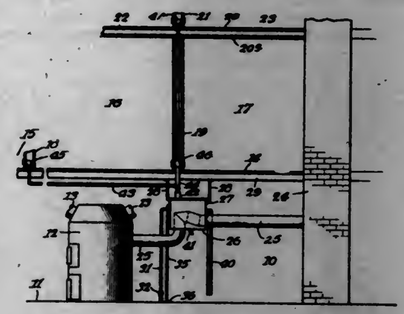
1,918,364. SOLENOID MOTOR. IRWIN B. WINSOR, Tulsa, Okla. Filed Oct. 6, 1930. Serial No. 486,694. 6 Claims. (Cl. 172—126.)

1. A motor of the character described including a housing, a core tube extending concentrically through said housing, an electric circuit including coil units wound in spaced relation on said tube and current-supply lines leading to said units, a core unit reciprocable in said tube and responsive to energization of the coil units, and a head



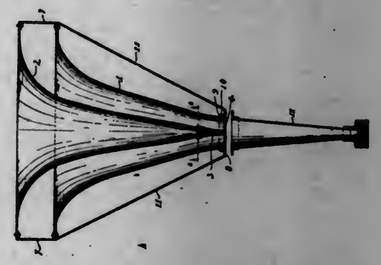
on said housing having transverse openings and removable plates adapted for closing said openings to permit connection of the supply lines with the coil windings.

1,918,365. HUMIDIFIER. JOHN N. YOUNESS, Columbus, Wis. Filed Oct. 26, 1931. Serial No. 571,159. 7 Claims. (Cl. 126—113.)



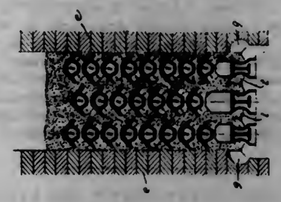
1. The combination with a furnace having a smoke flue, of a vessel having a water chamber, a section of said flue passing through said vessel and through said water chamber, said vessel having a vapor space above and open to the water chamber, a vapor conduit communicating with said vapor space, and a cold air pipe having an inlet below the level of said water and discharging into said vapor space below the top of said water chamber.

1,918,366. HORN STRUCTURE. ALEXANDER I. ABRAHAMS, New York, N. Y. Filed Nov. 19, 1931. Serial No. 576,049. 14 Claims. (Cl. 181—27.)



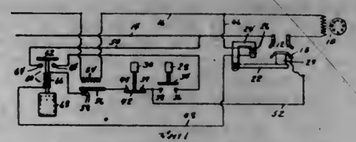
1. A horn structure comprising an outer wall member having a constricted neck at one end and a flared bell at the other, an inner wall member also having a constricted neck and a flared end, the constricted neck of the outer member being open and the constricted neck of the inner member being closed, both said members being substantially co-extensive and means for supporting the said horn members in spaced relation so that the sound emerges therefrom uniformly in a radial direction.

1,918,367. APPARATUS FOR ACTIVATION OF CARBONACEOUS SUBSTANCES. ARTHUR ACKERMANN, Paris, France, assignor to Société de Recherches & d'Exploitations Petrolifères, Paris, France, a French Société Anonyme. Filed Nov. 28, 1930, Serial No. 498,902, and in France Dec. 3, 1929. 2 Claims. (Cl. 202—215.)



1. A hollow refractory gas admission member for activation retorts, comprising parallel end walls and a connecting body portion, said body portion including a perforated trough and an overlying hood having a sloping upper surface, said upper surface extending to below the level of the top of said trough, and the width of said hood being substantially greater than that of said trough.

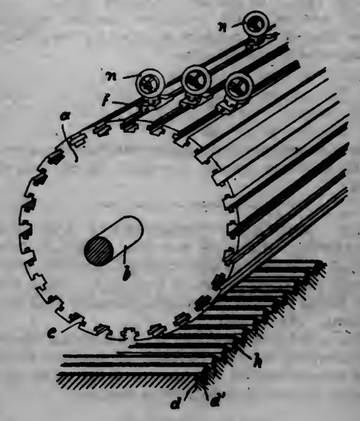
1,918,368. ELECTRIC SWITCH AND MEANS TO DELAY THE SUCCESSIVE OPENING THEREOF. CHESTER D. AINSWORTH, Wollaston, Mass., assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass., a Corporation of Massachusetts. Filed May 31, 1929. Serial No. 367,433. 7 Claims. (Cl. 175—375.)



5. The combination of an electric switch, electro-magnetic means for governing the closing and opening of the switch, closing and opening circuits for said electro-magnetic means, closing and opening circuit controllers associated with said respective circuits, and thermally-actuated means controlled by the current in one of said circuits and having control of said other circuit to delay the reclosing of the switch following its opening.

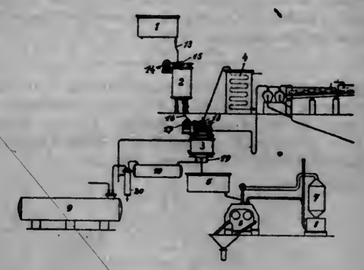
1,918,369. DEVICE FOR CUTTING CHENILLE TEXTURES. ARTHUR BECHTOLD, Wurzen, Germany. Filed July 11, 1930, Serial No. 467,244, and in Germany Aug. 10, 1929. 6 Claims. (Cl. 164—61.)

5. In a device for cutting chenille goods, a cutting cylinder, means in coactive relation therewith for supporting material, a carrier attached to said cutting cylinder and having a hole therethrough, a cutting blade having a central hole and an out-of-the-centre hole therethrough, a screw adapted to pass through a hole of the cutter and the hole of the carrier and having a portion of its shank of different cross section to its other round portion, a washer engaging the cutting blade at the side opposite the carrier and having a pin adapted to fit the second-named hole thereof, a spring and wing nut adapted to exert resilient pressure against the cutting blade and the carrier,



notches in the head of said screw, and resilient means to co-operate with said notches to indicate and arrest the position of the cutter after every partial turn of the screw.

1,918,370. PLANT FOR MANUFACTURING CHLORINATION PRODUCTS OF CAOUTCHOUC. WALTER BECKMANN, Tornesch, and MAX DEBNISS and ANDREAS NIELSEN, Hamburg, Germany, assignors to the Firm of New York Hamburger Gummi Waaren Comp., Hamburg, Germany. Filed Oct. 31, 1931, Serial No. 572,422, and in Germany Nov. 10, 1930. 12 Claims. (Cl. 23—260.)



10. In apparatus for manufacturing chlorination products of caoutchouc by the action of chlorine gas on a solution of the caoutchouc, the combination with a solution forming receptacle having stirring means therein, of a second receptacle, a conduit for connecting said receptacles, means for delivering gas under pressure to said second receptacle, means for effecting intimate mixture of the contents of said second receptacle, a drying apparatus, means for discharging liquid from said second receptacle into said drying apparatus, a condenser for gases, and means for conveying gases from said second receptacle to said condenser.

1,918,371. PREPARATION OF METHYL CHLORIDE AND METHYLENE CHLORIDE. WALTER BERNDT and OTTO ERNST, Hochst-on-the-Main, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Dec. 28, 1927, Serial No. 243,206, and in Germany Jan. 18, 1927. 18 Claims. (Cl. 260—166.)

4. The process which comprises causing methanol to act upon the reaction mixture obtained by the chlorination of a compound of the formula



wherein X represents hydrogen or chlorine, so as to transform the hydrogen chloride contained therein into methyl-chloride.

1,918,372. EMULSION TREATMENTS AND AGENTS THEREFOR. HEINRICH BERTSCH, Chemnitz, Germany, assignor to H. Th. Böhme Aktiengesellschaft, Chemnitz, Germany, a Corporation of Germany. Filed June 20, 1929, Serial No. 372,550, and in Germany June 20, 1928. 6 Claims. (Cl. 252—1.)

1. The method of preparing an emulsifying agent comprising bringing together an ester of a sulpho-fatty acid and an organic colloid substance and agitating the mass sufficiently to form a homogeneous mixture.

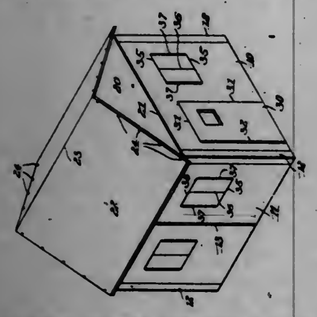
1,918,373. WETTING AGENTS. HEINRICH BERTSCH, Chemnitz, Germany, assignor to H. Th. Böhme Aktiengesellschaft, Chemnitz, Germany, a Corporation of Germany. Filed July 29, 1929, Serial No. 382,077, and in Germany Sept. 5, 1928. 8 Claims. (Cl. 252—1.)

1. A reagent for increasing the penetrating power of treating agents comprising, a sulphuric acid ester of an amide of a higher fatty acid.

1,918,374. PREPARATION OF NEUTRAL OR ALKALINE PRECIPITATING LIQUIDS. ALBERT BODMER, Wattwil, Switzerland, assignor to Novaseta A. G. Arbon, Arbon, Switzerland, a Corporation of Switzerland. Filed Oct. 4, 1929, Serial No. 397,455, and in Switzerland Oct. 8, 1928. 2 Claims. (Cl. 18—54.)

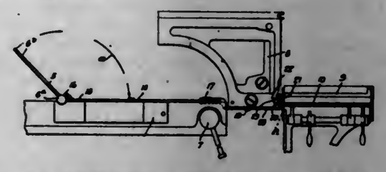
1. A process for preparing a precipitating bath of the kind described, which comprises mixing with the precipitating bath a caustic alkali to remove carbon dioxide and an alkali metal hydro-sulfite to remove the dissolved oxygen from the precipitating bath.

1,918,375. COLLAPSIBLE PLAYHOUSE. WILBER E. BOWERSOCK and HOWARD M. FANCHER, Rochester, N. Y., assignors to The Rochester Folding Box Co., Rochester, N. Y., a Corporation of New York. Filed Apr. 25, 1929. Serial No. 358,124. 2 Claims. (Cl. 20—2.)



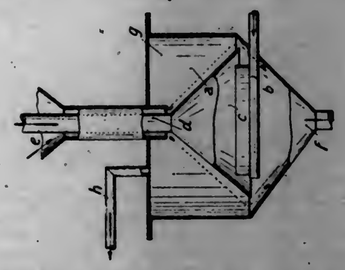
1. A collapsible playhouse comprising end wall and side wall portions hinged to each other at points corresponding to the corners of the house and arranged to be erected into a rectangular wall structure, said side wall portions having substantially vertical joints so that said wall structure may be collapsed by doubling said side walls upon themselves and by moving the end walls toward each other, a collapsible floor member arranged to fit within said wall structure when it is in erected position and acting to hold the walls in such position and prevent collapsing thereof, said floor member having an intermediate joint so that when the floor-member is removed to permit the house to be collapsed the floor member may be folded to occupy a substantially smaller area than the area of the house when erected, gable portions hinged to the upper edges of said end wall portions and arranged to extend upwardly therefrom when the house is erected or to be folded down against said end wall portions when the house is collapsed, and a roof member arranged to hold said gable portions in their erected position.

1,918,376. LINE SAFETY DEVICE FOR TYPOGRAPHICAL MACHINES. WORTH MEDLY BYARS, Merced, Calif. Filed Feb. 3, 1932. Serial No. 590,746. 10 Claims. (Cl. 199—52.)



1. In a typographical composing and casting machine, the combination of an assembling elevator wherein the matrices are composed in line at different levels and including an adjustable rail to fix the level of composition, a vise cap, an intermediate transfer channel, a first elevator filling piece, and an automatic line safety device carried by the vise cap and said intermediate transfer channel and including a means at the lower end of the intermediate transfer channel normally extending into the assembling elevator in the path of the aforementioned adjustable rail when the latter is in position to support the matrices at a second level and means cooperable with the filling piece during movement thereof for actuating the device to clear the dog from the rail when the latter is in said last mentioned position.

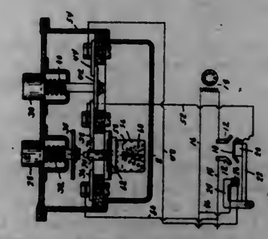
1,918,377. APPARATUS FOR THE DECOMPOSITION OF COMPLEX HYDROFLUORIC SALTS. MAX BUCHNER, Hanover-Kleefeld, Germany. Original application filed July 26, 1927, Serial No. 208,607, and in Germany July 27, 1926. Divided and this application filed Feb. 12, 1930. Serial No. 427,965. 6 Claims. (Cl. 23—279.)



1. Apparatus for the decomposition of complex hydrofluoric salts, comprising a rotary cone, a charging device for supplying the material to above the center of said rotary cone, heating devices below said rotary cone, a housing enclosing said rotary cone and said heating devices, a discharge on the lower portion of said housing for the discharge of the solid product from decomposition, and a discharge on the upper portion of said housing for discharging the gaseous product from decomposition.

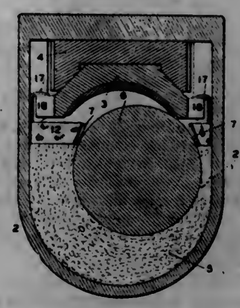
6. Apparatus for the decomposition of complex hydrofluoric salts, comprising a reaction chamber provided with a plate, rotary means for spreading the material to be decomposed continually in thin layers on the plate and means for heating the material by radiation.

1,918,378. ELECTRIC SWITCH AND CLOSING AND OPENING MEANS THEREFOR. GEORGE A. BURNHAM, Saugus, Mass., assignor to Condit Electrical Manufacturing Corporation, a Corporation of Massachusetts. Filed May 31, 1929. Serial No. 367,340. 6 Claims. (Cl. 175—375.)



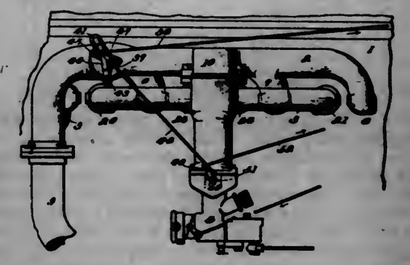
2. An electro-magnetically operated electric switch having closing means for it including a winding that is adapted to be maintained energized to hold the switch closed, a circuit controller arranged to close the circuit of said winding to close the switch, and time-governed means operated by one operation of said controller to delay the completion of a second operation thereof including a latch arranged to hold the controller in an inoperative position, and means operated by said controller arranged to move said latch away from holding position after a predetermined time period.

1,918,379. JOURNAL BEARING FOR RAILWAY CARS. STERLING H. CAMPBELL, FREDERICK K. HABENICHT, and FRANK H. PIETZSCH, St. Louis, Mo., assignors to Western Railway Equipment Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 29, 1932. Serial No. 589,636. 9 Claims. (Cl. 308—89.)



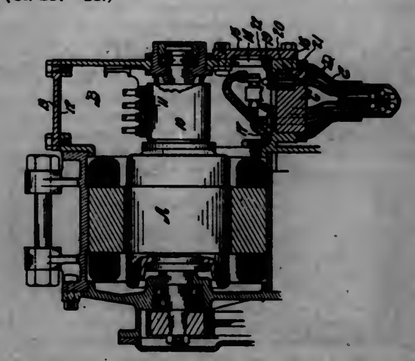
1. In a device of the class described, the combination of a journal box and axle, of a brass in said box and bearing on the upper part of said axle, the lower part of said box forming a chamber containing oil retaining packing, and a pair of fillers positioned one at either side of the axle contacting said axle and the box wall and forming a continuous partition between the packing and the brass, said fillers being compressible and expansible in a lateral direction to maintain said contact with both the axle and box in any operative position said parts may assume.

1,918,380. HEAT CONTROLLING MEANS FOR CHARGE FORMING DEVICES. HOWARD M. CHAMBERS, Flint, Mich., assignor to Marvel Carbureter Company, Flint, Mich., a Corporation of Indiana. Filed Nov. 10, 1926. Serial No. 147,520. 13 Claims. (Cl. 123—122.)



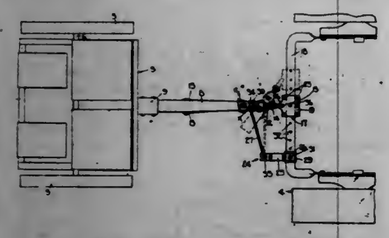
1. The combination with an internal combustion engine having an exhaust passage, intake manifold and charge forming device connected thereto, of a heater for heating the charge in its passage to the engine, a shaft carrying an exhaust throttle valve for controlling the passage of exhaust gases to said heater, a charge throttle valve for controlling the passage of explosive charge to said engine, a slotted lever fixed on said shaft for operating the exhaust throttling valve, a member slidably mounted in said lever, a connection between said charge throttling valve and said member and means for adjusting said member towards and away from the fulcrum of said lever to vary the effect of movement of the charge controlling valve on the exhaust controlling valve.

1,918,381. CABLE CONNECTING AND SEALING MEANS. BRADLEY E. CLARKSON, Cleveland, Ohio, assignor to Atlas Bolt & Screw Company, Cleveland, Ohio. Filed June 7, 1928. Serial No. 283,662. 11 Claims. (Cl. 247—18.)



1. In combination, a casing having a socket in the wall thereof and opening into the casing, a block in said socket closing said casing, electric apparatus in said casing, a plurality of leads for said apparatus each extending through an individual hole through said block, and a stuffing box for each of said leads carried by said block.

1,918,382. HITCH CONNECTION. CURTISS L. COOK, Syracuse, N. Y., assignor, by mesne assignments, to Syracuse Chilled Plow Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Jan. 15, 1931. Serial No. 508,867. 20 Claims. (Cl. 280—33.5.)

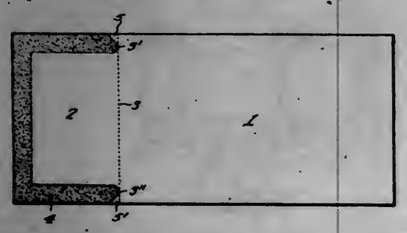


3. A hitch connection between a tractor and an implement comprising hitch means slidably mounted on the tractor for connection with the implement draft tongue, hook means for connecting said draft tongue with said hitch means for universal movement relative thereto, and automatically operable means connecting said tractor and said draft tongue to prevent initial turning of said tongue and implement in the turning direction of said tractor.

1,918,383. MAKING HOLLOW BODIES FROM CELLULOSE COMPOUNDS AND THE LIKE. EMIL CZAPEK and ERWIN BAUER, Bomlitz near Walsrode, Germany. Filed Apr. 5, 1927, Serial No. 181,258, and in Germany May 30, 1925. 5 Claims. (Cl. 18—58.)

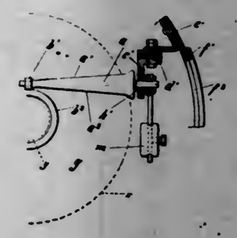
1. The method of manufacturing hollow bodies from liquid cellulose compounds by dipping a moulding body into such a cellulose solution and coagulating the layer of cellulose solution upon this body in a precipitating bath, which method consists in providing several baths of cellulose solutions determined for the dipping of the moulding body, incorporating fillers with certain of said baths of cellulose solution, dipping the moulding body into each of these cellulose solutions in subsequent operations so as to produce superimposed differently shaded layers upon the moulding body, dipping this moulding body together with the applied, superimposed layers of cellulose solutions into a precipitating bath and coagulating all these layers simultaneously in this precipitating bath.

1,918,384. MAILING DEVICE. JOHN A. FALVEY, Detroit, Mich. Filed June 27, 1929. Serial No. 374,064. 1 Claim. (Cl. 225—85.)



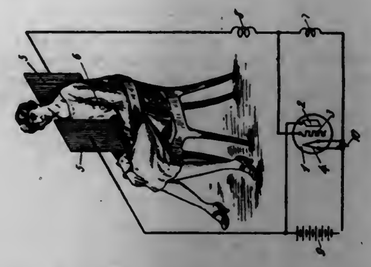
A mailing device comprising a sheet, a flap at one end thereof foldable upon the sheet, said flap having adhesive material extending completely around all the free edges thereof so that when folded a completely closed pocket is formed between the flap and sheet, adapted to receive an article for mail, the adhesive material being partly omitted adjacent the ends of the fold to form entering spaces, permitting the insertion of a blade to cut the fold.

1,918,385. EVAPORATOR. OTTO ENGISCH, Hamburg, Germany. Filed Mar. 24, 1930, Serial No. 438,562, and in Great Britain Mar. 23, 1929. 5 Claims. (Cl. 159—25.) (Granted under section 14, act of Mar. 2, 1927, 357 O. G. 5.)



1. In combination with a sea water evaporator including an evaporating heating element of bellows form, double-ended scrapers operating between the folds of the evaporating element, the heating elements and scrapers being arranged for relative movement and means to automatically maintain the respective ends of the scrapers in scraping contact with the adjacent walls of the element during element expansion and contraction.

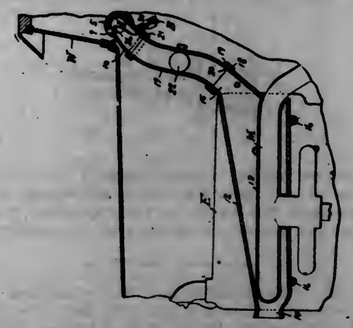
1,918,386. APPARATUS FOR DIATHERMIC TREATMENT BY MEANS OF HIGH FREQUENCY. ABRAHAM ESAU, Jena, Germany. Filed Dec. 26, 1928, Serial No. 328,509, and in Germany Jan. 21, 1928. 4 Claims. (Cl. 174—177.)



1. Apparatus for diathermic treatment by means of high frequency, comprising condenser plates arranged to form a diathermic field in which the subject is to be placed between said plates and spaced therefrom, means including said plates for generating and projecting short electric waves of a length not greater than 10 metres across said field, and a metallic shield to enclose the plates and field.

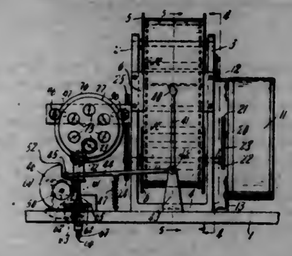
1,918,387. WINDSHIELD HEATER. DOMINIC N. FANTACI, Elmhurst, N. Y. Filed Jan. 8, 1931, Serial No. 507,504. Renewed May 15, 1933. 3 Claims. (Cl. 20—40.5.)

1. A windshield heater including in combination a casing adapted to be supported adjacent the windshield, said casing comprising inner and outer walls to provide an air space therebetween, said casing provided with an air inlet, and with a series of discharge openings for



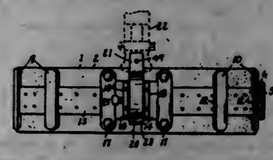
substantially the full length of the casing to direct heated air on to the windshield, and means for supplying heated air to the casing.

1,918,388. FLOW RECORDING MECHANISM. ROBERT E. FERGUSON, Medford, Mass. Filed July 16, 1931. Serial No. 551,074. 7 Claims. (Cl. 234—34.)



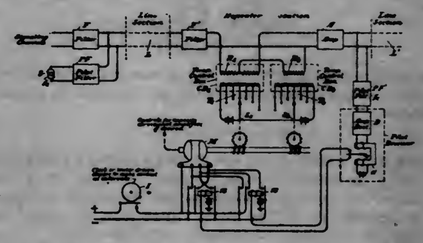
1. The combination with a meter having a spindle and a removable register normally driven by said spindle, of a recorder associable with said meter and having driving means driven by said spindle when said register has been removed, means carried by said recorder for supporting said register, and driving means carried by said recorder for driving said register when so supported and at the same rate as though said register were driven by said spindle in normal operation.

1,918,389. FISHING ROD SUPPORT. OTTO GERLINE, Kalamazoo, Mich. Filed Jan. 8, 1932. Serial No. 585,435. 13 Claims. (Cl. 224—25.)
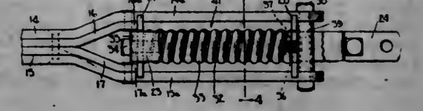


1. A fishing rod support, comprising a relatively wide and stiff front belt portion and a flexible strap portion connected to the ends of said front portion, at least one connection being adjustable, a rod supporting bracket mounted centrally on said front portion and having a base including end members of a length approximating the width of the front portion and secured thereto to constitute stiffening and reinforcing members therefor, transversely disposed reinforcing ribs secured to said front portion in spaced relation to said bracket and to each other, certain of said ribs being located adjacent the ends of said front portion, said ribs and bracket being recessed on their inner sides to receive the end of the strap whereby they constitute retaining loops therefor, a rod supporting member pivoted to said bracket and having spaced stops coacting with stops on said bracket, and a rod holder detachably mounted on said support.

1,918,390. TRANSMISSION CONTROL. ESTILL I. GREEN, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 1, 1931. Serial No. 541,492. 23 Claims. (Cl. 178—44.)



1. In a transmission system, a transmission line, means for applying electrical signals to said line, an auxiliary resistance in said line, said resistance being variable with temperature, and means controlled by said line to vary the temperature of said resistance to compensate for changes of resistance of said line.

1,918,391. HITCH. JOHN E. HOFFMAN, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Jan. 19, 1931. Serial No. 509,583. 15 Claims. (Cl. 280—33.9.)

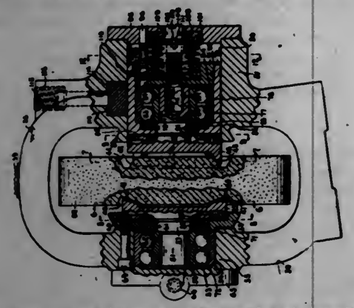


15. In combination with an implement, a forwardly extending draft frame comprising a plurality of bars, certain of said bars extending forwardly beyond the ends of the other bars, a member connecting the outer ends of said extended bars, and shock absorbing hitch means supported by the bars and comprising a pair of movable spring pressed elements, said connecting member of said extended bars and the ends of said other bars comprising means for retaining said spring pressed elements in operative relation to the bars and to limit the movement of said elements with respect to said bars.

1,918,392. ABRADING WHEEL AND MOUNTING THEREFOR. FERDINAND J. HOHNHORST and FERDINAND J. KROEGER, Covington, Ky. Filed Mar. 18, 1930. Serial No. 435,490. 14 Claims. (Cl. 51—168.)

1. A straight-sided abrading wheel having an annularly arranged frusto-conical clamping face in its side face sloping outwardly toward the axis of the wheel and terminating within said side face and an annularly arranged groove in said side face about said clamping face, a chuck having a frusto-conical end recess, the peripheral wall of which has an inner frusto-conical wedge clamping face complemental to said first-named frusto-conical wedge clamping face and received thereabout, and means for causing lateral pressure in axial direction between said

chuck and said abrading wheel for wedging pressure of said chuck wall toward the axis of said wheel, with the respective ends of said chuck wall spaced from the bottom



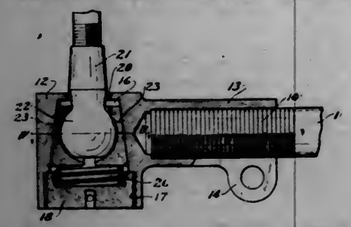
of said groove and the outer end of said first-named frusto-conical wedge clamping face when said chuck is in clamped relation.

1,918,393. AMPLIFIER OF ALTERNATING CURRENTS. WILLIAM HENRY TOWNE HOLDEN, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 22, 1931. Serial No. 558,766. 12 Claims. (Cl. 179—171.)



1. A vacuum tube amplifying circuit for amplifying frequencies over a given band, comprising two tubes associated in push-pull combination, and a filter associated with one pair of terminals thereof and adapted to pass the desired frequency band, the capacities of the tubes as seen from said terminals being elements in the filter.

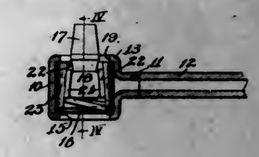
1,918,394. TIE ROD BALL JOINT. GEORGE H. HUFFERD, FREDERICK C. CRAWFORD, and MATTHEW P. GRAHAM, Detroit, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 24, 1927. Serial No. 242,339. 10 Claims. (Cl. 287—90.)



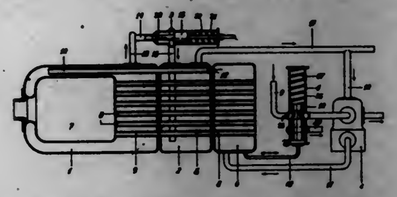
1. A ball joint connection comprising a ball stud with a shank smaller than the ball, a housing having a conical bore with an aperture in the top sufficient to admit the shank of the ball stud, peripherally spaced ball seat members in said housing having frusto-conical outer surfaces fitting within said conical bore, and means for longitudinally shifting said ball seat members to compensate for wear.

1,918,395. BALL JOINT. GEORGE H. HUFFERD and MATTHEW P. GRAHAM, Detroit, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 26, 1928. Serial No. 315,209. 3 Claims. (Cl. 287—90.)

3. A ball joint connection comprising a ball stud, a housing for the ball end thereof, members fixedly positioned within said housing and having oppositely inclined flat surfaces, separate ball seats having segmental spherical bearing surfaces for receiving said ball and having extensions thereof adapted to engage and slide upon the inclined surfaces of said members, and means urging said ball seat members into closer bearing engagement with said ball and the inclined flat surfaces of said members.

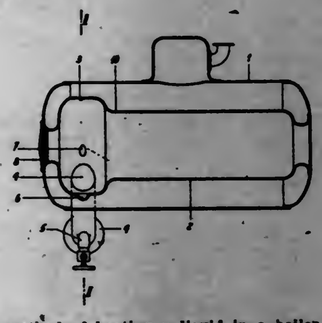


1,918,396. STEAM BOILER. HUBERT JEZLER, Zurich, Switzerland. Filed Feb. 27, 1931, Serial No. 518,760, and in Switzerland Mar. 5, 1930. 6 Claims. (Cl. 122—452.)



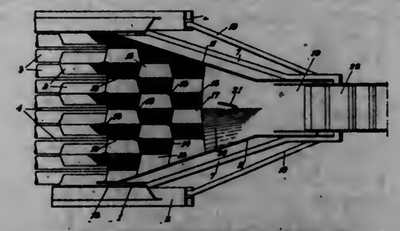
1. In a steam generating plant, a feed water preheater, a pump for delivering feed water thereto, a valve for controlling the intake to said pump, a chamber connected to said preheater, and a piston in said chamber and operated by the pressure of the water in said chamber and operatively connected to said valve to close the latter when said pressure exceeds a predetermined limit, said chamber having an outlet controlled by said piston to permit escape of water from said preheater when the pressure exceeds a predetermined limit.

1,918,397. FIRING OF STEAM BOILERS. HUBERT JEZLER, Zurich, Switzerland. Filed Feb. 27, 1931, Serial No. 518,761, and in Switzerland Mar. 5, 1930. 7 Claims. (Cl. 122—136.)



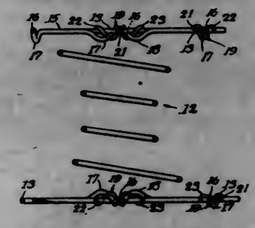
1. A method of heating a liquid in a boiler having a combustion chamber of circular section, the wall of which is in contact with the liquid to be heated, including the steps of introducing combustion gases at high velocity tangentially into said chamber, and projecting a stream of gas at high velocity into said chamber substantially tangentially to said wall, whereby a spiral-like gas current is created near the periphery of said chamber, and the hot combustion gases in said chamber are caused to follow said current.

1,918,398. DISTRIBUTOR FOR GRADING MACHINES. WILL R. JOHNSON, Stockton, Calif., assignor to Richmond-Chase Company, San Jose, Calif., a Corporation. Filed June 7, 1930. Serial No. 459,696. 3 Claims. (Cl. 209—73.)



1. A material distributor for graders comprising a series of distributor elements arranged in steps rising in a direction longitudinally of the grader, each step being corrugated and each step being longer than the preceding step, the ridges and grooves of the corrugations of one step being in a different transverse plane than those of adjacent steps.

1,918,399. SPRING ASSEMBLY. CHARLES D. KARR, Holland, Mich. Filed Feb. 15, 1930. Serial No. 428,594. 5 Claims. (Cl. 5—271.)



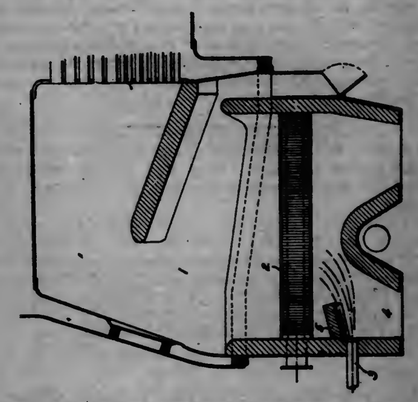
5. In a spring assembly, a plurality of spiral springs, the terminal turn of each spring being provided with a distortion in the form of a loop, the distortion of one spring engaging that of an adjacent spring, the loop of one of said springs being in a substantially vertical plane and the other loop being in the plane of its corresponding terminal turn and embracing the outer end of the first named loop and means for holding said loops in engagement whereby said loops will be connected together and said terminal turns may swing and rock in vertical planes relative to each other.

1,918,400. SUCTION CLEANER. WILLIAM H. KITTO, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a Corporation of Ohio. Filed Oct. 22, 1931. Serial No. 570,288. 1 Claim. (Cl. 230—132.)



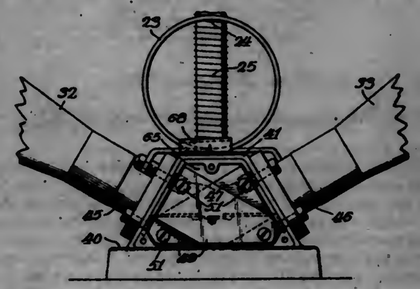
In a suction cleaner, a fan chamber, a removable plate forming a wall on one side of said chamber and having an opening and a circular channel concentric therewith and open to said chamber, a motor frame mounted on said wall and seating about said channel, a bearing mounted in the opening in said wall, a driving shaft mounted in said bearing and extending into said chamber, a fan carried by said shaft in said chamber, said fan being formed with a circular rim at its periphery extended into the channel in said wall for the purpose of protecting said bearing.

1,918,401. PULVERIZED FUEL LOCOMOTIVE BOILER. WALTER KLEINOW, Hennigsdorf, near Berlin, Germany, assignor to Allgemeine Elektricitäts-Gesellschaft, Berlin, Germany, a Firm. Original application filed Mar. 24, 1927, Serial No. 178,073, and in Germany May 1, 1925. Divided and this application filed Oct. 22, 1929. Serial No. 401,550. 2 Claims. (Cl. 110—28.)



2. A furnace for pulverulent fuel comprising a combustion chamber in the lower portion of said furnace, a main burner in said combustion chamber provided with a plurality of slots for the discharge of fuel, and means for heating the furnace while the main burner is out of operation, said means comprising an auxiliary burner located out of the path of flames of the main burner, and a lighting arch near the main burner heated during operation of said main burner for lighting the auxiliary burner.

1,918,402. RADIO DEMONSTRATION APPARATUS. PAUL E. KLOPSTEG, Evanston, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Continuation of application Serial No. 404,631, filed Nov. 4, 1929. This application filed Feb. 7, 1933. Serial No. 655,682. 10 Claims. (Cl. 250—13.)



1. In educational apparatus for demonstrating the principles governing the production of short wave oscillations and their transmission through space, the combination of a raised base having an integral upstanding housing thereon, a pair of condensers mounted within the housing, tube sockets mounted on opposite side walls of the housing, a single turn oscillator coil mounted on

the top wall of the housing, antenna holders directly associated with the ends of the oscillator coil adapted to support a horizontal antenna, means within the housing for electrically connecting the condensers with the tube sockets to form a part of an oscillator circuit, and a socket in the base adapted to support a second antenna inductively coupled with the oscillator coil.

1,918,403. PROCESSING LUBRICANTS. FREDERICK A. KORMANN, Glendale, and JOHN A. MILLIFF, Compton, Calif., assignors to Baldwin Vale, San Francisco, Calif. Filed Dec. 15, 1928. Serial No. 326,406. 8 Claims. (Cl. 87—9.)

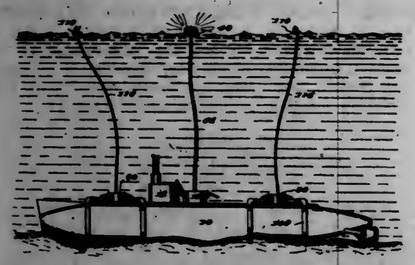
1. The process of forming a solid lubricant consisting of mixing an oil with nitrated naphthalene; heating the mixture until the nitrated naphthalene goes into solution; then introducing a compound of caoutchouc macerated in toluol; then subjecting the mass to endothermic reaction; then reheating the mass and again subjecting the mass to cooling action.

1,918,404. FOUNTAIN PEN. THEODOR KOVACS, Berlin-Schoneberg, Germany. Filed May 7, 1932, Serial No. 609,944, and in Germany May 9, 1931. 14 Claims. (Cl. 120—47.)



1. In a self-filling fountain pen: a plunger slidable in the barrel for filling purposes; a screw drive to the plunger comprising a rotatable element fixed longitudinally and a longitudinally movable element fixed as regards rotation the barrel being provided with a vent communicating with the space above the plunger; and a removable closure for the vent.

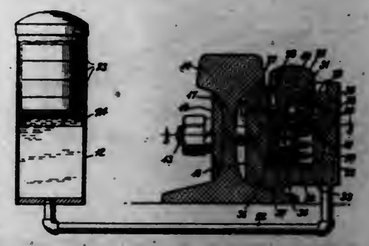
1,918,405. SUBMARINE RESCUE DEVICE. PETER KOUMOUTSAKOS, Brooklyn, N. Y. Filed Feb. 18, 1933. Serial No. 657,446. 5 Claims. (Cl. 114—16.5.)



1. In a structure of the class described, a hull having a tower provided with a closure, a salvage buoy within the closure and having a cable, a releasing device for said closure, a ball attached to said cable and having bearings, V-shaped arms attached to said hull and having trunnions extending through said bearings, and frangible means normally securing the ball in an inoperative position.

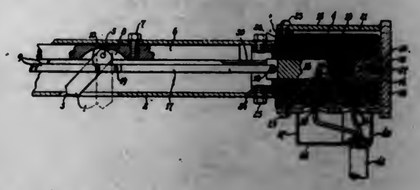
1,918,406. RAIL AND FLANGE OILER. WILLIAM KROPF, Weatherly, Pa., assignor to The Rails Company, New York, N. Y., a Corporation of Connecticut. Filed Aug. 23, 1932. Serial No. 630,110. 5 Claims. (Cl. 184—3.)

1. A rail and flange oiler comprising, in combination: a body for attachment to a rail having a cylinder therein and a passage to conduct lubricant under pressure to said cylinder, positioned to be closed by a piston reciprocating in the cylinder; a piston reciprocable in said cylinder and provided with an outlet passage; the wall of said cylinder formed with a cavity in communication with



the interior of the cylinder, normally out of communication with said outlet passage and positioned to be brought into communication with the outlet passage by reciprocation of the piston; and a spring to yieldingly hold the piston in normal position.

1,918,407. WEB SEVERING DEVICE. ERIC H. LAABS, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 22, 1932. Serial No. 606,788. 6 Claims. (Cl. 164—41.)

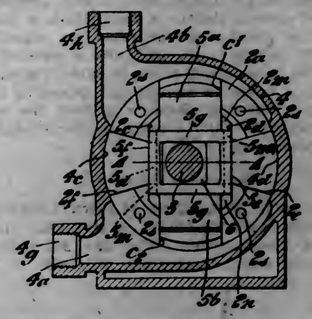


2. A web severing device comprising a hollow cylindrical supporting member, a plurality of knives arranged within said member and pivotally secured thereto to swing in a common plane substantially diametric with respect to the axis of said member, said knives being normally concealed within said supporting member and the free ends thereof being movable outwardly through openings therein, and a solenoid mounted upon one end of said member, said solenoid having a plunger movable axially with respect to said supporting member, and link connections between said plunger and said knives.

1,918,408. PLUNGER PUMP. CLIFFORD LAKIN-SMITH, Westminster, London, England. Filed Jan. 3, 1930, Serial No. 418,273, and in Great Britain Jan. 3, 1929. 3 Claims. (Cl. 103—161.)

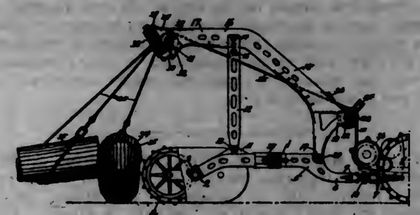
1. A pump comprising in combination two coaxial and oppositely disposed cylindrical plungers, a transverse rectangular guideway arranged between and connecting the two oppositely disposed plungers and forming liquid displacement chambers transversely to the plungers, a rotor having diametrically opposed cylinders in which the plungers are reciprocated by the rectangular guideway, parallel flat surfaces provided in the rotor parallel to the axis of the plungers and on which slide the outer ends of the guide-way and supporting the plungers independently of the cylinders, the outer ends of the guideway being constructed as shoulders on the plungers and the inside of the rotor and grooves formed in the shoulders placing the opposite cavities in communication with each other, the rotor being also provided with intermediate ports diametrically arranged at right angles to the cylinders and passing through flat parallel surfaces, a pump casing bored to receive the rotor and having a liquid inlet and

a liquid outlet separated by shoes projecting into the casing and forming a portion of the bored surface of the casing in which the rotor rotates, means whereby the rotor can be rotated, a fixed pin secured eccentrically in the casing and extending into the guide-way, a block rotatable on said pin and adapted to slide in the guide-way, ports being provided in the opposite ends of the guide-way



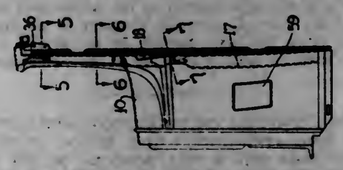
and opening into the intermediate ports provided in the rotor so that during the rotation of the rotor, liquid will be drawn into one end of the guide-way while the port communicating therewith passes the inlet of the pump and will be driven through the same end of the guide-way while the port communicating therewith passes the outlet of the pump.

1,918,409. BOOM YARDER. ROBERT S. LANGDON, Sumner, Wash., assignor to Pacific Car and Foundry Company, Seattle, Wash., a Corporation of Washington. Filed July 2, 1931. Serial No. 548,864. 14 Claims. (Cl. 254—139.1.)



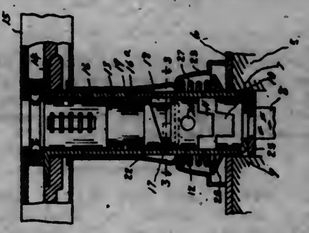
7. In a logging apparatus, in combination, a tractor having cable mechanism and a logging trailer comprising spaced wheels, a reach frame supported by said spaced wheels and pivotally connected at its forward end to the tractor, a boom supported by the reach frame, and cable guiding means at the front and rear ends of said boom.

1,918,410. VEHICLE BODY FRONT CONSTRUCTION. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 17, 1930. Serial No. 421,358. 10 Claims. (Cl. 296—28.)



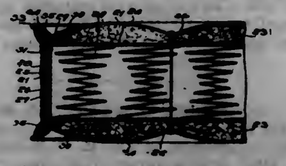
1. In a vehicle front construction, a unitary pressed metal standing extending from side to side of the body to form a lower wind-shield header and formed with a generally downwardly presenting upper portion formed with a seat along its front edge to receive the rear edge of a cowl panel, and extended downwardly through its rear wall to form an instrument board, the upper portion of said stamping in rear of the cowl panel seat being formed with ventilator openings.

1,918,411. AUTOMOBILE DOOR HANDLE. CHARLES B. LOWE, Detroit, Mich., assignor to Ferro Stamping & Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 16, 1928, Serial No. 300,081. Renewed Jan. 23, 1933. 2 Claims. (Cl. 70—91.)



1. In combination with a door lock, a lock shaft secured adjacent one extremity to the movable portion of the door lock, a rotatable door handle including an elongated hollow cylinder, a rotatable lock barrel mounted partially within the cylinder, a connecting member movable within the cylinder into and out of engagement with the free extremity of the lock shaft, the adjacent extremities of the connecting member and lock shaft being provided one with a lug and the other with a recess adapted to interfit, the connecting member being also formed with a cam slot having circumferentially spaced wide and narrow portions, a pin extending from the lock barrel into the cam slot, and a spring arranged within the cylinder to press the connecting member toward the lock shaft whenever the pin is in a wide portion of the cam slot whereby variations in the extent of entrance of the interfitting lug and slot may be secured.

1,918,412. MATTRESS CONSTRUCTION. MAX MARSACK, Sheboygan, Wis. Filed Nov. 5, 1928. Serial No. 317,321. 1 Claim. (Cl. 5—351.)

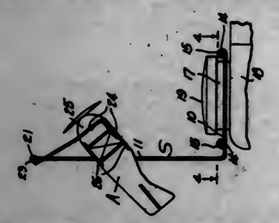


A mattress or the like, including; a box-like spring construction including a plurality of vertically arranged coil springs; a layer of cover padding on the top of the spring construction; a cover sheet over said padding carrying an auxiliary strip attached by one edge adjacent the edge of the cover sheet, said cover sheet having its edge attached to the edge of the box-like spring construction; side padding at the sides of the box-like spring construction extending upwardly into the space between the edge of the cover sheet and the auxiliary strip; and a side wall sheet over the side padding, the edge of the side wall sheet being attached to the free edge of the auxiliary strip.

1,918,413. AERIAL TOY. WALTER A. MARTIN, La Crescenta, Calif. Filed Apr. 18, 1932. Serial No. 605,077. 3 Claims. (Cl. 46—14.)

1. An aerial toy comprising: a support adapted to be secured to a vehicle; a toy object; and means for mounting

said object on the support for rotary movement in a complete circular path about a horizontal axis extending transversely of the direction of the vehicle's forward motion, so that the object will be suspended in an inverted



position below said axis when the vehicle is at rest; the object having a lifting surface responsive to air currents included by forward motion of the vehicle, to swing the object from said inverted position upwardly to a flying position above said axis.

1,918,414. STEAM AND HOT WATER GENERATOR. JAMES A. MCNEY, Harding, Pa. Filed Sept. 12, 1932. Serial No. 632 844. 1 Claim. (Cl. 219—38.)



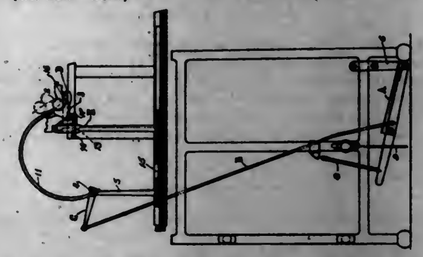
In a boiler, a heating device comprising a barrel having one end closed and adapted for attachment to the boiler, the opposite end of the barrel being closed, a plurality of water tubes extending longitudinally in the barrel, a partition across the interior of the barrel in close spaced relation to the attaching end of the barrel defining a water receiving chamber and a heating chamber, said barrel being provided with an opening at the water receiving chamber, said water tubes opening at their ends through the said partition and second mentioned end of the barrel, and a heating element extending longitudinally in the barrel at substantially the longitudinal axial portion thereof and in respect to which the tubes are radially disposed.

1,918,415. COMBINED BRACKET AND GUIDE FOR ROLLING STEEL DOORS. WILLIAM G. MILLER, Detroit, Mich., assignor to The R. C. Mahon Company, Detroit, Mich., a Corporation of Michigan. Filed June 19, 1930. Serial No. 462,356. 3 Claims. (Cl. 189—56.)



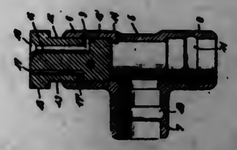
1. A rolling steel door comprising a series of interlocking plates, the interlocking means being such as to permit longitudinal movement of one plate relative to another, a bracket mounted on the ends of one plate to engage over the interlocking end of another to hold the plates from lateral displacement, L-shaped guide channels at each edge of the door opening adapted to receive the edges of the plates and the aforesaid brackets thereon, L-shaped brackets at the edges of the plates riding in the L-shaped guide channels to hold the door as a whole from lateral displacement, a housing at the upper end of the channels having an opening through which the plates may pass and having depending portions at opposite ends provided with an L-shaped opening therein in registration at the lower end with the openings in the respective channels and at the upper end being provided with a widened throat to permit the plates and brackets to turn in passing into the housing, a flange on each of said depending portions engaging the respective channels to hold the same in alignment therewith, and a roller in the housing about which the plates are wound.

1,918,416. FOOT OPERATED PLATEN LIFTING DEVICE FOR CALCULATING MACHINES. LÉANDRE MOUSSIER, Paris, France. Filed Jan. 27, 1932, Serial No. 589,296, and in France Feb. 25, 1931. 6 Claims. (Cl. 197—180.)



1. A device for lifting and lowering the platen of a calculating machine of the Burroughs type, comprising a pivoted arm, means on the end of the arm adapted to engage and lift the platen upon upward movement of the free end of the arm, and means for absorbing the shock of lowering and platen comprising a spring actuated pivoted cam adapted to engage the means carried on the free end of the pivoted arm.

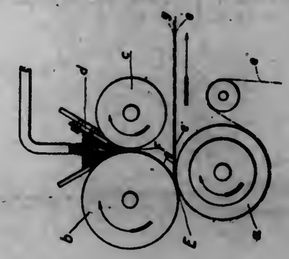
1,918,417. MEANS FOR FORMING A PIPE JOINT. ROBERT H. MUELLER, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a Corporation of Illinois. Filed Sept. 27, 1930. Serial No. 484,901. 2 Claims. (Cl. 22—116.)



1. A mandrel for use in positioning a fusible body in a preformed recess about the wall of the bore of a pipe element, said mandrel having sprue and vent passages therein and extending from the portion of the mandrel exteriorly of the pipe element to the recess, said mandrel being of the same diameter as the bore of the pipe element to cause the inner surface of the fusible body to be flush with the wall of the bore of the pipe element.

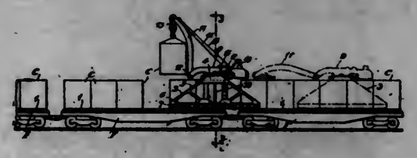
1,918,418. METHOD OF PRODUCING ABRASIVE PAPER AND THE LIKE. CARL MÜNCH, Duren, Germany. Filed Sept. 9, 1931, Serial No. 561,883, and in Germany Sept. 9, 1930. 1 Claim. (Cl. 91—68.)

In a method of producing abrasive paper and similar articles provided with a coating, in combination, the steps of dissolving cellulose ester in a solvent having a low boiling point, mixing the dissolved cellulose ester with an abrasive material, continuously introducing the mixture into a space between a first and a second cylinder, said space corresponding to the desired thickness of the



coating, and bringing a moving paper web passing over a third cylinder in contact with the first cylinder, all the three cylinders rotating in the same direction, the mixture carried by the first cylinder being transferred to said paper web.

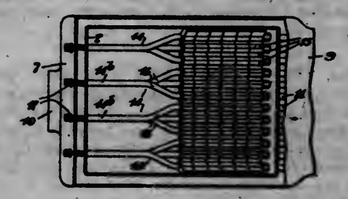
1,918,419. MEANS FOR LOADING AND UNLOADING CARS. ROBERT J. NEEDHAM, Toronto, Ontario, Canada. Filed Sept. 1, 1931. Serial No. 560,648. 5 Claims. (Cl. 214—65.)



1. The combination of a plurality of coupled freight cars; track rails carried by said cars and extending along the opposite sides of the load-receiving spaces of the cars; a truck formed to straddle the load-receiving spaces of the cars and traversable upon said rails along the cars and from car to car across the gap between the cars; a hoisting apparatus carried by said truck; a swivel mounting for said hoisting apparatus adapting it to rotate about a vertical axis located at approximately the center of the truck; supporting wheels for the truck including fore-and-aft groups of wheels at each side of the truck each group including a power driven wheel, said driven wheels of the different groups at each side of the truck being spaced fore-and-aft of said axis of the hoisting apparatus and at a distance from each other exceeding the gap between the cars and the opposite end wheels of each group being spaced apart a distance exceeding said gap; power means carried by the truck and operatively connected to said driven wheels of the different wheel groups to propel the truck on the rails; and guide means at the ends of the rails to guide the truck wheels onto the rails of one car when the truck is driven across the gap from the other car and the cars are at an angle to each other on a curve with their rails out of alinement.

1,918,420. ARCH FOR BOILER FIREBOXES. ROBERT J. NEEDHAM, Toronto, Ontario, Canada. Filed Oct. 6, 1931. Serial No. 567,181. 11 Claims. (Cl. 122—68.)

1. In a locomotive boiler firebox, a baffle arch structure dividing the firebox into a combustion chamber and a furnace chamber and comprising a series of water tubes having spaced parallel brick-supporting reaches and reaches laterally converged and disposed in superposed positions to provide increased communicating space be-



tween said combustion chamber and furnace chamber; and bricks supported by said parallel reaches of the tubes and closing the spaces therebetween.

1,918,421. DIAPHRAGM. MARTIN NYSTROM, Chicago, Ill., assignor, by mesne assignments, to United Research Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed Apr. 10, 1926. Serial No. 101,186. 6 Claims. (Cl. 181—32.)



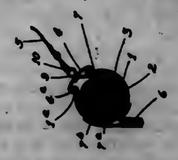
1. A diaphragm comprising a single ply central portion approximately .004" in thickness, and an outer portion approximately .002" in thickness, having a deformation to facilitate flexure, both of said portions being composed of a metallic substance as light in weight as aluminum.

1,918,422. SOUND-REPRODUCING DEVICE. MARTIN NYSTROM, Chicago, Ill., assignor, by mesne assignments, to United Research Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed June 22, 1926. Serial No. 117,723. 6 Claims. (Cl. 181—32.)



1. A diaphragm composed of aluminum and having a central portion, deformed to prevent flexure thereof, in one piece with a relatively thin outer portion, deformed to facilitate flexure thereof.

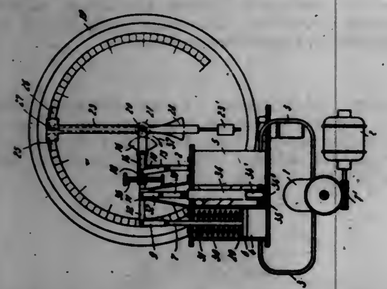
1,918,423. AUTOMOBILE COVER APPARATUS. NARVY L. PERSINGER, Glendale, Calif. Filed Oct. 30, 1929. Serial No. 403,532. 2 Claims. (Cl. 135—5.)



1. In an apparatus of the class described, a cylindrical casing having a long narrow opening at its upper portion, a roller rotatably mounted therein, an extensible cover

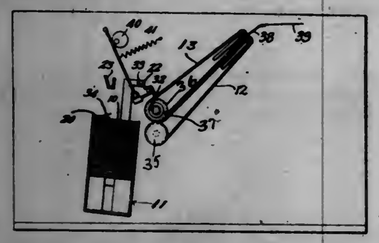
member mounted on the roller, and a long free cover adapted to extend tightly over the opposite edges of the opening for enclosing the open side of the casing when the cover member is enclosed therein, said long cover being secured to the extensible end of the cover member.

1,918,424. FLUID OPERATED CONTROL DEVICE. WERNER PONTOW, Berlin-Wilmersdorf, WILHELM ARENDROTH and GÜNTHER SCHRODER, Berlin-Charlottenburg, Germany, and KARL A. MAYR, New York, N. Y., assignors to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany. Filed Jan. 26, 1932, Serial No. 589,034, and in Germany Jan. 28, 1931. 13 Claims. (Cl. 121—41.)



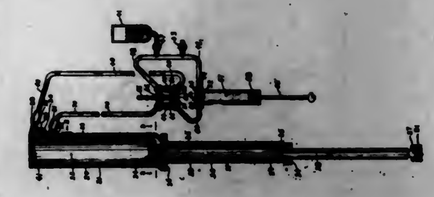
13. In a control system for controlling the movement of objects in two directions through an auxiliary power system, in combination with a pilot element, responsive to the control direction required for said object, and movable in opposite directions from a normal position according to the control direction required, and two cooperative elements disposed on either side of said pilot element and individually engageable by the latter in accordance with the control direction required, and means responsive to such engagement for actuating the auxiliary power system in the required direction, means for moving the engaged cooperative element to follow the response direction of the pilot element, to disengage said two elements, means for returning said cooperative element to normal position after the disengagement, and means for synchronizing said return movement with the return movement of the pilot element to normal position, to prevent re-engagement between said two elements.

1,918,425. ENVELOPE FEEDING MECHANISM. SAMUEL J. T. PRICE, Macon, Ga. Original application filed Jan. 20, 1926, Serial No. 82,583. Divided and this application filed Oct. 9, 1930. Serial No. 487,563. 3 Claims. (Cl. 271—2.)



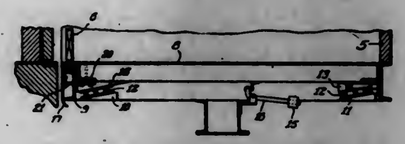
1. In combination, means for supporting a stack of envelopes in position to allow the flap of an envelope to project above the pile of envelopes, means movable to receive an envelope and hold it by the flap, and convey it to a predetermined position, and means for receiving it at the last named place and conveying it to a predetermined destination, said conveying means taking the envelope with the end of the envelope opposite the flap being first engaged and carried forwardly.

1,918,426. AIRCRAFT LANDING GEAR. JESS C. RADNOR, New York, N. Y. Filed Feb. 13, 1931. Serial No. 515,537. 34 Claims. (Cl. 244—2.)



31. A mechanism for operating an aircraft landing gear comprising a plurality of telescopically mounted cylinders and pistons and means for moving said cylinders and pistons with respect to each other to retract or extend said gear, said means comprising a source of fluid force, and a passage means connecting said source to each of said pistons at all times throughout their range of movement for retracting or extending said gear.

1,918,427. MOVABLE PLATFORM CONSTRUCTION. JOSEPH RICE, Chicago, Ill., assignor of one-half to Elevator Mfg. Company of America, Chicago, Ill., a Corporation of Illinois. Filed Aug. 17, 1931. Serial No. 557,506. 8 Claims. (Cl. 187—1.)



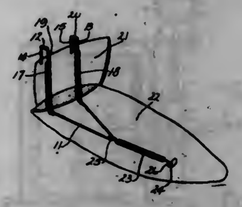
1. In a platform construction, a framework and a floor carried thereby and movable laterally thereon, means for movably carrying said floor on said framework, a sill for said floor outside said framework, a door on said framework between the sill and floor, and means connecting said sill and floor whereby they are movable together relative to said framework.

1,918,428. FLUSH TYPE GUIDE ROD. EDWIN S. ROSCOE, Rochester, N. Y., assignor to Yawman & Erbe Mfg. Co., Rochester, N. Y., a Corporation of New York. Filed Mar. 17, 1932. Serial No. 599,412. 13 Claims. (Cl. 129—16.)



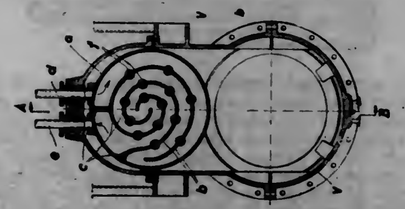
1. In a receptacle for the storage of records, a receptacle front having an opening therein, a guide rod insertable through said opening, and means accessible only at an edge of said receptacle front for retaining said guide rod against movement through said opening, and for releasing said guide rod for such movement.

1,918,429. CUTTLE-FISH-BONE HOLDER. HERBERT SCHALL and MARGARETA D. NELSON, Milwaukee, Wis. Filed May 9, 1932. Serial No. 610,049. 6 Claims. (Cl. 119—18.)



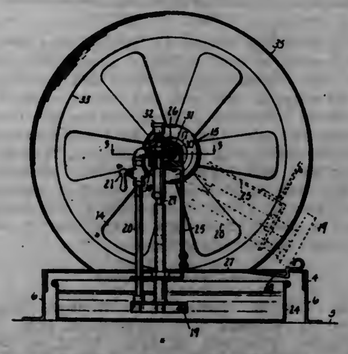
1. A cuttle-fish-bone holder for bird cages, comprising a horizontal support formed of wire, a pair of vertically disposed hooked segments integral with said hoisontal support, and means for securing portions of cuttle-bone in said holder.

1,918,430. MEANS FOR UNIFORMLY COOLING HOT BLAST AND HOT GAS GATE VALVE DISKS. JOSEF SCHLOTMANN, Oberhausen-Rheinland, Germany, assignor to Firm: Gutehoffnungshütte Oberhausen Aktiengesellschaft, Oberhausen-Rheinland, Germany. Filed Dec. 24, 1931, Serial No. 582,972, and in Germany Dec. 27, 1930. 2 Claims. (Cl. 251—159.)



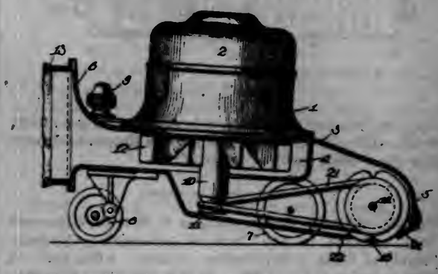
1. A hot blast valve, or the like, comprising in combination with a valve casing, a hollow valve member of substantially circular cross-section provided with spaced curved partitions forming substantially spiral-shaped channels, said partitions having vent-holes therein at certain intervals.

1,918,431. HUMIDIFIER AND AIR CIRCULATOR. ROBERT J. SEATON, Battle Creek, Mich., assignor of one-half to Herbert Matthews, Battle Creek, Mich. Filed Jan. 22, 1932. Serial No. 588,171. 5 Claims. (Cl. 261—29.)



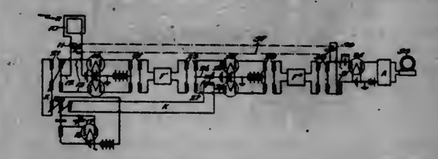
5. In an apparatus of the class described, the combination of a blower shaft having a centrifugal water impeller thereon, a hanger supported for independent rotation about the axis of said shaft, a water pump carried by the hanger and driven by said shaft for supplying water to said impeller, a water pan disposed so as to supply water to said pump, and means for latching said hanger to hold said pump in operative position and when disengaged permitting the swinging of the hanger assembly upwardly to clear the pan.

1,918,432. SUCTION CLEANER. DONALD G. SMELLIE and HARRY B. WHITE, Canton, Ohio, and MARVIN E. NULSEN, St. Louis, Mo., assignors to The Hoover Company, a Corporation of Ohio. Filed July 12, 1929. Serial No. 377,642. 9 Claims. (Cl. 15—8.)



1. In combination, in a suction cleaner provided with a suction nozzle having spaced lips thereon, means to lift a surface covering undergoing cleaning into contact with said lips, a rotary agitator comprising a smooth substantially cylindrical body within said nozzle having an agitating element thereon, said cylindrical body projecting substantially into the plane of the nozzle lips.

1,918,433. SIGNALING SYSTEM. EDWIN H. SMYTHE, Evanston, Ill. Filed Jan. 22, 1929. Serial No. 334,228. 28 Claims. (Cl. 250—20.)

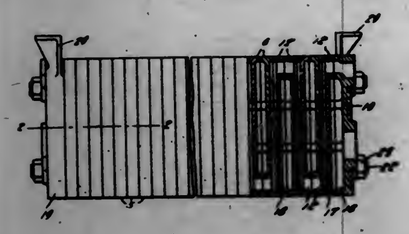


1. The method of selective signal reception, which consists in selecting one of a number of signal carrier waves lying within a certain frequency range, modulating the selected carrier wave with a locally applied wave of fixed frequency lying outside said range and of such a frequency as to produce with said selected wave, side frequencies which are readily separable from waves of said selected frequency, and detecting and utilizing the signal component of a combination frequency of the fixed frequency wave and the selected carrier wave.

1,918,434. HEAT EXCHANGE DEVICE. ALFRED L. STAMSVIK, Cleveland, Ohio, assignor of one-sixth to HOMER E. MCMILLEN, Grove City, Pa. Filed Apr. 22, 1930, Serial No. 446,669. Renewed Oct. 27, 1931. 12 Claims. (Cl. 257—245.)

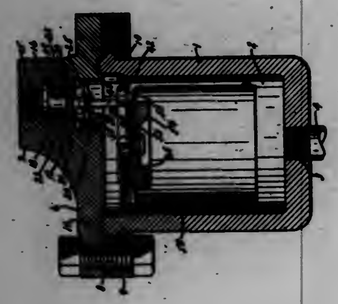
1. A heat exchange device formed of a plurality of flanged plates arranged in a longitudinal series so that an edge of the flange of each plate is disposed against an edge of the flange of the next adjacent plates whereby a chamber is formed between the adjacent plates, said plate being respectively provided on opposite sides with a boss having a port opening therethrough, said plates respectively being further provided on one side thereof with a lug diametrically opposite to the boss on said one side, said lug having an orifice opening therethrough, said plates being so arranged

relative to one another as to have respectively opposed bosses and lugs disposed one against the other, whereby alternate chambers are adapted respectively to have a



cooling medium and a material to be cooled circulated therethrough, said orifices communicating the chambers through which the cooling medium is circulated.

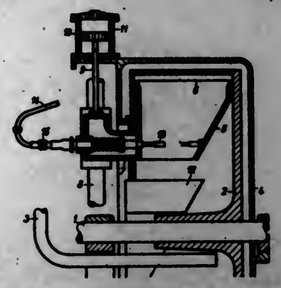
1,918,435. STEAM TRAP. LESLIE P. STRONG, Lakewood, Ohio, assignor to The Clark Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 14, 1931. Serial No. 522,586. 1 Claim. (Cl. 137—103.)



A steam trap, comprising a chambered casing having an inlet and an outlet, valve mechanism for controlling said outlet, an inverted bucket in the chamber of said casing for actuating said valve mechanism, said bucket being provided in its top wall with a vent passageway, and a valve arranged below said bucket top wall and hence below the vent passageway thereof for controlling said passageway, said valve cooperating with the lower end of said passageway, said passageway being provided at its lower end with a leak groove which said valve does not close, the movement of said valve into and out of closing position with respect to the lower end of said passageway serving to maintain said leak groove free of clogging foreign matter and hence always open.

1,918,436. DISCHARGING DEVICE FOR CENTRIFUGAL MACHINES. GUSTAV TER MEER, Munich, Germany, assignor to Albert T. Otto & Sons, New York, N. Y., a Corporation of New York. Filed Aug. 15, 1931, Serial No. 557,317, and in Germany June 10, 1930. 8 Claims. (Cl. 210—70.)

1. A centrifugal machine, including a rotatable separating drum having a peripheral wall adapted to collect the separated solids, a scraper inside of said drum and movable into and out of scraping relationship with the peripheral wall, an inclined wall below said scraper and onto which the scraped solids fall, a knocker for rapping on said wall to vibrate the latter and loosen material which



may adhere thereto, and connections between said scraper and said knocker for operating said knocker upon movement of said scraper into operating position.

1,918,437. CONVERTIBLE SWIMMING POOL AND SKATING RINK. HENRY TORRANCE, New York, N. Y., asignor to The Carbondale Machine Co., Carbondale, Pa., a Corporation of Pennsylvania. Filed Sept. 12, 1932. Serial No. 632,723. 19 Claims. (Cl. 62—12.)



1. A convertible swimming pool and skating rink, including a pit large enough to serve as a swimming pool, a floor in said pit extending across substantially the entire area of said pit and adapted to be sunk to the bottom of the pit and serve as a floor for said pit when said pit is used as a swimming pool or raised to a position near the top of said pit to serve as a skating floor, and means carried by said floor for circulating a refrigerant in heat interchanging relationship therewith to freeze a layer of water above said floor to form an ice-skating surface.

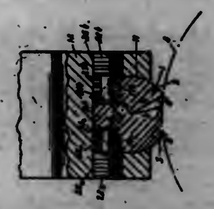
1,918,438. LOCKING MECHANISM FOR BINDER POSTS. PAUL O. UNGER, Chicago, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a Corporation of Massachusetts. Filed Feb. 25, 1932. Serial No. 595,121. 3 Claims. (Cl. 129—13.)



2. In a loose leaf binder, a clamping head having a tubular member thereon, a casing, a rotational locking post on said casing extending into said member, and means for engaging said post and tubular member by a predetermined rotational movement in one direction and disengaging the same therefrom by a predetermined rotational movement in a reverse direction, comprising a gear upon said post within said casing, a slidable rack bar within said casing and maintained in engagement with said gear by a wall of said casing, and means for limiting the sliding movements of said rack to locking and unlocking positions of said post.

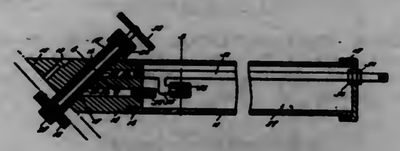
1,918,439. CHUCK. LAWRENCE K. WARMAN, Erie, Pa., assignor to Williams Tool Corporation, Erie, Pa., a Corporation. Filed Nov. 22, 1930. Serial No. 597,409. 4 Claims. (Cl. 279—123.)

1. A chucking device comprising a substantially cylindrical jaw, a holder therefor having a recess in which said jaw is mounted and enclosing more than half of the surface of said jaw, means in said jaw permitting slight rotation of said jaw in said holder in the direction of the



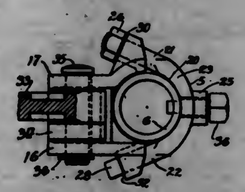
gripping action thereof and a concave gripping surface on said jaw, said holder being provided with adjustable stops in said recess for limiting the rotation of said jaw.

1,918,440. BRUSH. FRED C. WHITE, Mason City, Iowa. Filed Oct. 5, 1932. Serial No. 636,398. 2 Claims. (Cl. 15—138.)



1. In combination, a brush having a backing provided with an aperture, a handle for the brush provided with a fluid chamber, and a discharge passage leading from said chamber, of means for detachably securing the handle to the backing of the brush head including a valve casing extending diagonally through the handle and having ends projecting from the handle in reverse directions, one of the ends of said casing extending through the aperture in the back of the brush head, a nut threadedly engaged with said one end of the valve casing and coacting with the proximate end of the handle for securing the handle to the brush head, said valve casing at said one end being also open for discharging liquid on to the bristles of the brush head, and a hollow valve member rotatably mounted in the casing, said hollow valve member being open at one end, and being also provided with a lateral opening for movement into and out of registry with said passage for controlling the discharge of liquid from said chamber on to the bristles of the brush head.

1,918,441. CONNECTING MEANS. ALFRED ALSAKER, Chicago, Ill., assignor to The Delta-Star Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 8, 1930. Serial No. 426,960. 8 Claims. (Cl. 85—1.)



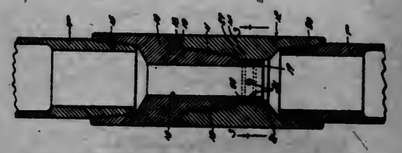
1. A screw for forcing its way through the wall of a pipe, comprising a cylindrical threaded shank terminating in a cylindrical threaded projection of smaller diameter terminating in a smooth cylindrical projection of still smaller diameter.

1,918,442. PACKER FOR CASING HEADS. LAWRENCE F. BAASH and ERWIN BURNS, Los Angeles, and GEORGE B. GARRARD, Long Beach, Calif. Filed June 23, 1930. Serial No. 463,210. 4 Claims. (Cl. 288—8.)



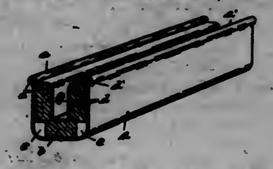
1. A packing device of the character described including a body of expansible packing material, and a comparatively rigid member of substantially diamond shaped construction in an opening in the body, there being a groove extension in the opening at an edge of the member.

1,918,443. TOOL JOINT. LAWRENCE F. BAASH, Los Angeles, Calif. Filed July 11, 1930. Serial No. 467,156. 4 Claims. (Cl. 285—146.)



1. A tool joint including, a section having an opening and a socket at one end of the opening, a pin section, a pin on the pin section screw threaded into the socket, there being a fluid passage through the pin section, an extension on the pin extending into the opening, and packing means on the extension for sealing with the walls of the opening including expansible packing in an annular groove in the extension having outwardly convergent side walls, there being a fluid passage communicating between the fluid passage in the pin section and the groove.

1,918,444. WINDOW GLASS GUIDE. EDWIN W. M. BAILEY, Amesbury, Mass., assignor to Edwin M. Bailey, Amesbury, Mass. Filed July 8, 1930. Serial No. 465,551. 2 Claims. (Cl. 296—44.5.)

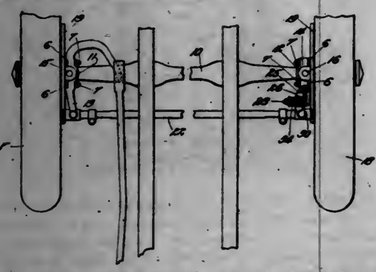


1. A window glass guide comprising a U-form metal channel, a correspondingly shaped sheet of cushioning material disposed in said channel and engaged with the sides and bottom thereof and a textile covering extending over and conforming to the entire outer surface of said cushion and having its edge portions clamped between reversely bent edge portions of the channel sides.

1,918,445. ANTISHIMMY DEVICE. STUART G. BAITS, Grosse Pointe Park, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 19, 1931. Serial No. 563,726. 6 Claims. (Cl. 280—95.)

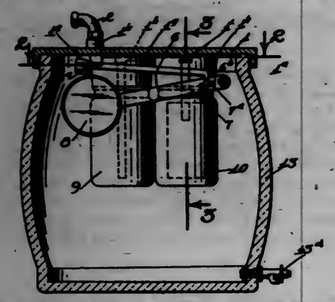
1. In combination, a vehicle axle, a pair of wheels, a pair of steering knuckles each rotatably receiving one of

said wheels, a pair of pins carried by said axle each rotatably receiving one of said knuckles, said pins being so arranged with respect to said wheels that the projections of the axes of said pins intersect the areas of contact of said wheels with the surface supporting the vehicle at points spaced from and on opposite sides of the centers



of said contact areas, whereby said wheels tend to move transversely in predetermined opposite directions, a connection between said knuckles permitting limited transverse movement of one of said wheels relative to the other including resilient means acting more forcibly in one direction than the other.

1,918,446. WATER FILTERING APPARATUS. URIAH L. BARNES, San Diego, Calif. Filed Aug. 24, 1931. Serial No. 558,979. 10 Claims. (Cl. 210—105.)



6. In a water filtering apparatus, a water service receptacle, a cover therefor forming a support, a plurality of filtering medium receptacles suspended from said support, and water conductors arranged to conduct the water consecutively from and through one filtering receptacle to the other.

1,918,447. GOLF BAG. FRANCIS JOHN BLATZ, New York, N. Y. Filed May 2, 1931. Serial No. 534,675. 6 Claims. (Cl. 150—1.5.)



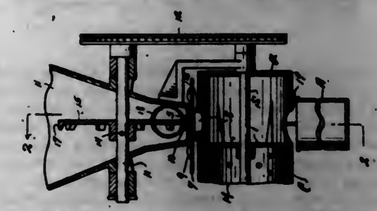
1. A golf bag including a body open at both ends, a cover for one end of said body, a telescoping section fitting in the other end of the body, a solid bottom for said telescoping section, and a plurality of hinged members connecting said bottom with said body whereby the telescoping section may slide back and forth freely, each of said hinge members comprising a link pivotally connected at one end to said body, a second link having one end pivotally connected to said bottom, and means for pivotally connecting said links together.

1,918,448. WELL SURVEYING DEVICE. JOHN V. BOX, Los Angeles, and EMBLEN N. COOKE, La Habra, Calif. Filed Sept. 23, 1930. Serial No. 483,959½. 11 Claims. (Cl. 33—205.)



6. A well surveying device for use in connection with an operating string of drill pipe, including a body adapted to be mounted in the drilling string, a plumb bob in the body, a plunger carried by the body and projecting from the body and operable to a position where it prevents oscillation of the plumb bob, releasable means normally holding the plunger against movement in a position where the plumb bob is free to oscillate, and a trip pin adapted to be dropped through the string so that it strikes the plunger to release the releasable means by the force of its impact against the plunger.

1,918,449. FEED MECHANISM. JOHN MARION BRASINGTON, Cheraw, S. C., assignor of one-half to Charles S. McCall, Bennettsville, S. C. Filed July 3, 1930. Serial No. 465,731. 6 Claims. (Cl. 43—148.)



1. A feed mechanism comprising a hopper having an opening, an adjustable plate carried by the wall of the hopper, and yieldable means for constantly urging the plate toward such wall, said plate being provided thereround with a plurality of protuberances to be selectively received within the opening of the hopper, said protuberances having discharge openings, the discharge opening of one protuberance being of a size differing from that of the opening in each of the other protuberances.

1,918,450. SWITCH. PAUL R. BROESKE, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a Corporation of Ohio. Filed June 20, 1932. Serial No. 618,155. 4 Claims. (Cl. 247—18.)



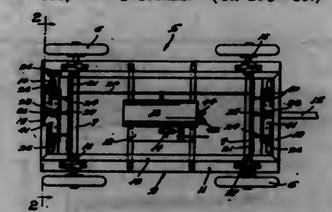
1. In a switch mounting, a hollow member having an opening on one side, a removable cover plate closing said opening, an electric conduit carried by said cover plate extending therethru into said hollow member, a switch positioned in said hollow member and connected to said conduit including a wall spaced from said enclosing member and an operating lever extended thru said cover plate, and a resilient seat member compressed between said wall and said enclosing hollow member pressing said switch against said cover plate.

1,918,451. CHAIN POST BINDER. EDWARD F. BURNOBE, Chicago, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a Corporation of Massachusetts. Filed Oct. 4, 1930. Serial No. 486,411. 2 Claims. (Cl. 129—41.)



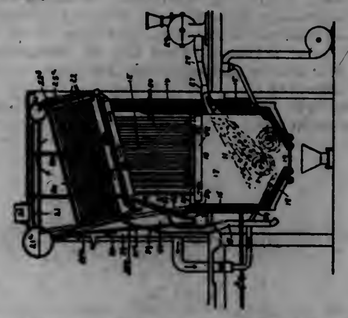
2. In a loose leaf binder, a hollow clamping member having apertures, ferrules in said apertures, arcuate guides in said clamping member and extending through said apertures and having grooves, take-up mechanism in said clamping member, and chains attached to said take-up mechanism and extending through said apertures, said chains consisting of links having tongues adapted for entering the grooves in said guides when said chains pass through said ferrules.

1,918,452. RESILIENT VEHICLE SUSPENSION. HENRY COUBROUGH, Seattle, Wash. Filed June 24, 1930. Serial No. 463,406. 4 Claims. (Cl. 296—35.)



1. In a vehicle comprising running gear and an undercarriage for said running gear, a body, and a frame for said body, of means for resiliently suspending said body frame with respect to said undercarriage, said means including a plurality of cylinders secured to said undercarriage and frame in vertical and horisontal planes, pistons for said cylinders, pressure means affording a thrust contact of said horisontally disposed pistons against said undercarriage, one piston in opposition to another, and means affording a pressure thrust of said vertically disposed pistons against said body frame, one piston in opposition to another.

1,918,453. STEAM GENERATOR. JAY GOULD COUTANT, New York, N. Y., assignor, by mesne assignments, to Edward J. Franklin, Salt Lake City, Utah. Original application filed Oct. 5, 1925, Serial No. 60,435, and in France Oct. 7, 1924. Divided and this application filed May 8, 1931. Serial No. 535,922. 8 Claims. (Cl. 122—235.)

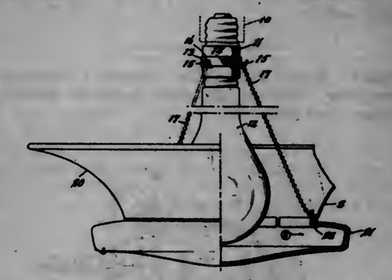


1. In a water tube boiler, in combination with a furnace having a combustion chamber, a plurality of rows of water tubes above said combustion chamber and connected for circulation of water therethrough, the lowermost row of said tubes having their rear end portions inclined downwardly and rearwardly to a position adjacent the rear wall of the combustion chamber and in such position as to be clear of the remaining rows of tubes, means connecting the rear ends of said lowermost row of tubes to the water circulating system, inclined refractory baffle means supported upon said inclined portions of said tubes and cooperating with a wall to the rear thereof to form a pocket below said remaining tubes for collection of ashes or solid material, and an opening for permitting discharge of ash from said pocket.

1,918,454. BASED AMMONIUM SULPHATE FERTILIZER AND PROCESS OF MAKING THE SAME. JAMES W. DEAN and JOHN H. DEAN, Knoxville, Tenn., assignors to Knoxville Fertilizer Co., Knoxville, Tenn., a Corporation of Tennessee. Filed June 30, 1932. Serial No. 620,288. 4 Claims. (Cl. 71—9.)

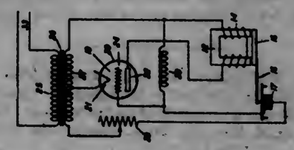
1. A commercial fertilizer comprising a greatly predominant amount of ammonium sulphate in admixture with smaller amounts of acid phosphate (superphosphate), comminuted vegetable material, and dolomite.

1,918,455. INDIRECT LIGHTING FIXTURE. LEROY C. DOANE, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a Corporation of Connecticut. Filed Feb. 16, 1932. Serial No. 593,259. 3 Claims. (Cl. 240—78.)



1. An indirect lighting fixture comprising a lamp socket, a lamp bulb in the socket, an annular outwardly and upwardly flaring deflector about the lamp bulb for upwardly reflecting light, a screen below the deflector for intercepting light and reflecting it onto the outside of the latter for illuminating the same, said screen being of a diameter greater than that of the lower open side of the deflector and having an inturned flange portion in coincidence with a similar flange portion of the latter, an annular channel member engaged over the said flange portions to secure the deflector and screen together, and adjustable suspension means extending between the lamp socket and the channel member.

1,918,456. VIBRATING APPARATUS CONTROL. GORDON F. DODDS, Oakland, Calif. Filed July 22, 1932. Serial No. 623,970. 20 Claims. (Cl. 172—240.)



6. Vibrating apparatus comprising a member, adapted to be loaded, electromagnetic means for imparting recip-

rocatory movements to said member, a rectifier for supplying said electromagnetic means with a pulsating direct current, and means to control the output of said rectifier in accordance with the load on said member.

1,918,457. SHELF RETAINER. ALVIS YATES DOWELL, Hastings-upon-Hudson, N. Y., assignor to Servel, Inc., New York, N. Y., a Corporation of Delaware. Filed Aug. 10, 1932. Serial No. 628,146. 4 Claims. (Cl. 248—23.)



1. In a cabinet having means for supporting a shelf and a shelf supported by said means, shelf retaining means comprising a loop of spring metal provided with an opening at one end to receive the outer portion of the support and having a depression disposed in opposition to a laterally extending portion of the support for clamping a side bar of the shelf therebetween, said retainer being provided with an opening to receive a part of the support and being held in place by the fastening means for said support.

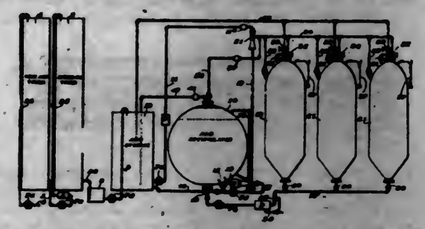
1,918,458. HAND VIBRATOR. ALBERT J. DREMEL, Racine, Wis. Filed Oct. 11, 1930. Serial No. 488,058. 7 Claims. (Cl. 128—41.)



5. A hand vibrator comprising a casing, a substantially rigid support carried by the casing and depending therefrom for engaging a portion of the hand, a vibratory member resiliently connected to the casing and depending therefrom in spaced relation with said rigid support for engagement with another portion of the hand, means within the casing for actuating said vibratory member, and means for attaching the casing to the hand.

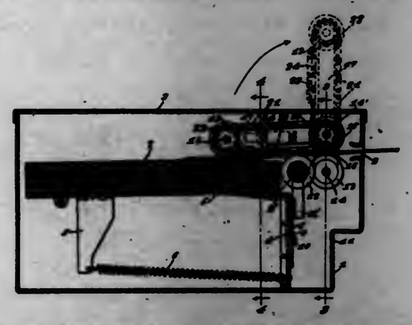
1,918,459. METHOD AND APPARATUS FOR THE DIGESTION OF FIBROUS MATERIAL. THOMAS LEONIDAS DUNBAR and ALBERT DARIUS MERRILL, Watertown, N. Y. Filed Nov. 20, 1931. Serial No. 576,254. 30 Claims. (Cl. 92—7.)

1. In the digestion of fibrous material by the sulphite process, progressively raising the temperature of acid liquor as the pressure thereon progressively increases during its passage from the weak acid tower to the



digester and utilizing the heated liquor for the digestion of fibrous material.

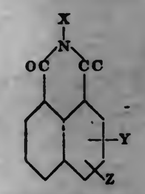
1,918,460. DISPENSING RECEPTACLE FOR PAPER BAGS. WILLIAM ECCARDT, Overland, Mo. Filed Nov. 4, 1931. Serial No. 573,000. 2 Claims. (Cl. 312—54.)



1. In a dispensing device, a case having an opening, a spring pressed platform pivotally mounted in the case to receive articles to be dispensed through the opening, a pair of superimposed shafts journaled in said case, rollers and discs secured to said shafts and the rollers and discs of one shaft cooperating with the rollers and discs of the other shaft to receive the articles between the same when being dispensed, a frame including a pair of arms having one of their ends pivoted to the upper shaft, a shaft journaled in the other end of the arms, discs secured to the last mentioned shaft and engageable with the uppermost one of said articles to act as a weight for the articles and for disposing them in dispensing position, and means to rotate the last mentioned shaft from the upper shaft to move the articles to dispensing position through the opening.

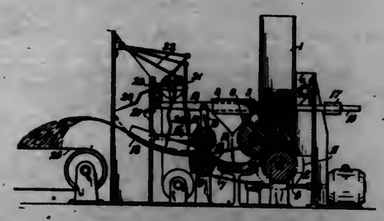
1,918,461. DYESTUFF DERIVED FROM 1-8-NAPHTHALIC ACID ANHYDRIDE. WILHELM ECKERT, Frankfort-on-the-Main-Hochst, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed May 22, 1930, Serial No. 454,837, and in Germany Dec. 10, 1929. 5 Claims. (Cl. 260—124.)

1. As new products the compounds of the following general formula:



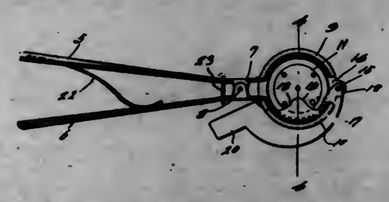
wherein X represents a hydroaryl group or an amino group which may be substituted by an aryl group of the benzene series and Y stands either for an amino group, in which case Z represents a sulfonic acid group or hydrogen, or for a sulfamic acid group, in which case Z represents hydrogen.

1,918,462. APPARATUS FOR IMPREGNATING COARSELY FIBROUS MATERIALS TO BE WORKED UP INTO BUILDING ELEMENTS. KONRAD ERDMANN, Radenthein, Austria. Original application filed Oct. 15, 1930, Serial No. 488,938, and in Austria Feb. 19, 1930. Divided and this application filed Dec. 11, 1931. Serial No. 580,467. 5 Claims. (Cl. 91—43.)



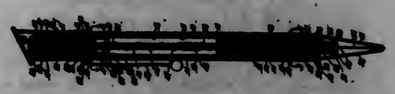
1. In an apparatus for impregnating coarsely fibrous materials to be worked up into highly porous building elements the combination of means for shaping the fibrous material into a loose hank, a trough, means for constantly feeding emulsions into said trough, two pairs of rollers arranged at opposite ends of said trough, the one of which being obliquely disposed and adapted slightly to compress said hank and to introduce it into said trough so as to ensure sliding of the hank on the bottom of said trough, the other pair of rollers being adapted to squeeze the excess of emulsion out of said hank when leaving said trough.

1,918,463. EGG CUTTER. WILLIAM E. FOSTER, Chicago, Ill. Filed Nov. 5, 1931. Serial No. 573,275. 3 Claims. (Cl. 146—2.)



1. An implement of the character described comprising a pair of pivotally connected handles, a jaw on one end of each handle, said jaws being in opposed relation, an article support on one of the said jaws for maintaining an article between the jaws, resilient means for urging said jaws toward each other and a swingable knife on the said support.

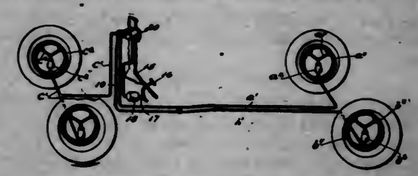
1,918,464. ADJUSTABLE WRITING IMPLEMENT. FRANK FUREDY, Penn-Wynne, Pa., assignor of one-half to George M. Hessdoerfer, Philadelphia, Pa. Filed Oct. 22, 1930. Serial No. 490,478. 14 Claims. (Cl. 120—14.)



8. A feed sleeve of thin wall tubing for an adjustable pencil having a single internal thread at each end oppositely spiralling on opposite sides of an intermediate point, a guide bar within the sleeve having guides on opposite sides of the bar and two lead holders, one fed within each guide and engaging with the grooves within the sleeve.

12. A feed sleeve, a guide bar within the sleeve having guides on its opposite sides, a terminal washer fastened at one end of the guide bar and a lead magazine at the other end of the guide bar, the ends of the bar being split and turned at right angles to secure the terminal washer at one end and the lead magazine at the other end to the guide bar.

1,918,465. MOTOR VEHICLE CONTROL SYSTEM. JOHN J. GARDNER, New York, N. Y. Filed Feb. 23, 1929. Serial No. 342,068. 1 Claim. (Cl. 188—152.)



In a motor vehicle having wheel brakes and hydraulic motors actuating them, a control system having a hydraulic pressure means operable at will and a system of liquid pipes including branches to the hydraulic motors actuating the respective wheel brakes, and in combination with said pressure means and pipe system a distributing vessel interposed in the pipe system to receive the liquid from the pressure means for quick actuation of the motors and to return the liquid to the vessel upon release, said vessel having a wall with alined exit ports for the respective branch pipes, a rotary disk valve movable at will into selected adjustments in contact against the ported wall and having ports alined with each other and with the wall ports for controlling the liquid flow into the respective exit ports, the wall ports and valve ports being in circular alinement, and arranged with three wall ports spaced apart angularly by three units and one unit respectively, and five valve ports spaced apart by one unit, two units, one unit and one unit respectively, whereby five selective combinations of port communications are available.

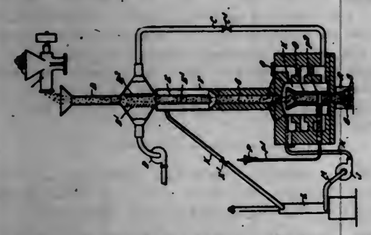
1,918,466. VULCANIZATION OF ARTIFICIAL RUBBER LIKE MASSES. THEODOR GOOST, Leverkusen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed May 5, 1930, Serial No. 450,065, and in Germany May 8, 1929. 9 Claims. (Cl. 18—49.)

1. Process which comprises mechanically incorporating within an artificial rubber like mass derived from a butadiene hydrocarbon a vulcanizing agent and a vulcanization accelerator in a liquefied form and vulcanizing the mixture in the usual manner.

1,918,467. MANUFACTURE OF DECOLORIZING OR ACTIVATED CARBON. THOMAS AUGUSTUS GOSKAR, Burnham-on-Sea, England. Filed Feb. 14, 1930, Serial No. 428,403, and in Great Britain Feb. 19, 1929. 4 Claims. (Cl. 252—3.)

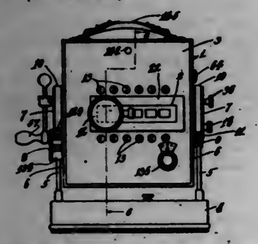
1. A process for the manufacture of "activated" carbon consisting successively in macerating non-distilled carbonaceous material with from 40 to 70 percent by weight of water but with no substantial proportion of binding agents, subjecting said material at a low pressure to a forming operation (e. g. extrusion, moulding) for the production of pellets of substantially uniform size between one-quarter and one-half inch in diameter and of substantially uniform composition and texture, charging said pellets into a substantially upright chamber so as substantially to

...d the upper part of said chamber, drying said pellets by passing hot gases therethrough, subjecting said pellets to dry distillation by direct contact with the gases from



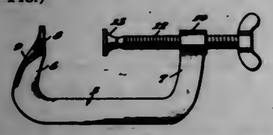
a subsequent "activating" stage and finally heating the carbonized pellets and treating them with an "activating" agent.

1,918,468. CONDENSED CATALOGUING AND PROJECTING MACHINE. BROOKS B. HARDING, Los Angeles, Calif., assignor to George L. Brown, sr., Los Angeles, Calif. Filed Mar. 13, 1929. Serial No. 346,625. 21 Claims. (Cl. 88—24.)



1. In apparatus of the kind described, the combination of a casing having a wall with a sight opening therein, and having a projection opening in the opposite wall, means for supporting a plurality of films in the casing with means for guiding the same past the sight opening, an observation lens movably mounted at the sight opening to move transversely of the films to enable the same to be positioned opposite any film, a projection lens movably mounted within the casing and capable of being moved into position opposite any film, and means for mounting a projection lamp on the outside of the casing in line with the observation lens to project images from the films through the projection opening to a point outside of the casing.

1,918,469. CLAMP AND METHOD OF MANUFACTURING THE SAME. JOHN M. HARGRAVE, Cincinnati, Ohio. Filed July 30, 1931. Serial No. 554,043. 5 Claims. (Cl. 29—148.)



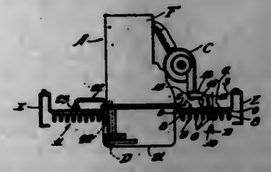
1. The process of forming a clamp body comprising forming a length of high carbon metal into C-shape, forming a pad upon one of the arms of C-shaped metal, welding a nut piece of low carbon metal on the other arm and thereafter tapping said nut piece at right angles to the pad.

4. A clamp body comprising a length of high carbon metal of bar stock bent into C-shape and having a pad on one arm thereof, and a generally cylindrically formed nut piece of low carbon metal of rolled stock welded in position on the other arm of said length of metal and screw-threaded to receive a clamping screw.

1,918,470. PROCESS FOR THE PRODUCTION OF ARTIFICIAL SILK BY THE COPPER OXIDE AMMONIA STRETCH SPINNING PROCESS. AUGUST HARTMANN, Barmen, Germany, assignor to American Bemberg Corporation, New York, N. Y. Filed Nov. 14, 1928, Serial No. 319,189, and in Germany Nov. 15, 1927. 10 Claims. (Cl. 18—54.)

1. In the production of artificial silk by the copper oxide ammonia process, the steps comprising recirculating a stream of precipitating liquid containing copper oxide ammonia, withdrawing a portion of such recirculated liquid, removing copper and ammonia from said portion and returning it to the recirculated stream.

1,918,471. COOLING MEANS FOR INTERNAL COMBUSTION ENGINES. RAYMOND L. HAWKINS, Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 7, 1930. Serial No. 494,017. 10 Claims. (Cl. 123—174.)



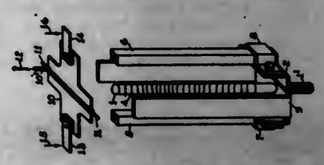
1. In a cooling water system for internal combustion engines, means for cooling the water as it flows from the radiator to the water pump, said means comprising a shallow conduit having substantially parallel top and bottom walls, said bottom wall being provided with a plurality of longitudinal hollow heat dissipating fins, thereby providing increased contact area with the water, the top wall of the conduit constituting a drip pan for receiving oil and other foreign matter escaping from the upper part of the engine.

1,918,472. GAME DEVICE. JOHN HETHERINGTON, Keyport, N. J. Filed Dec. 2, 1932. Serial No. 645,356. 3 Claims. (Cl. 273—141.)



1. A marble game comprising a device having a baseplate of dome shape, a rotatable member, means on the apex of said dome for rotatably mounting said member, arms on said member extending over said dome, said dome serving to divert the direction of a marble rolling toward said member.

1,918,473. POLARIZED RELAY. WALTER H. HOPPE, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Oct. 16, 1930. Serial No. 489,091. 5 Claims. (Cl. 175—339.)



1. A polarized relay comprising a carrier member of magnetic material, an electromagnet including a soft iron core with one end rigidly fastened to said carrier member, two straight permanent magnets with respectively alternate poles fastened to said carrier member and located

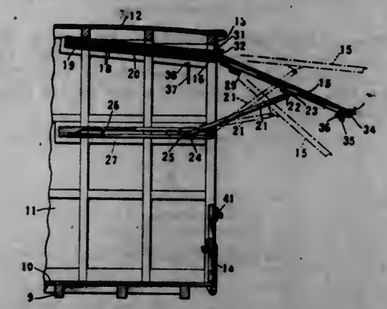
in a common plane with said electro-magnet equally spaced therefrom, two strips of magnetic material with one end of each fastened to said carrier member and extending parallel to said electro-magnet, equally spaced therefrom, and located in a plane which is substantially at right angles to the aforesaid common plane of the permanent magnets, an armature with its axis located in said plane of the magnetic strips and electro-magnet and adapted to move there-about into contact with either of the free ends of said permanent magnets, said armature being biased to a neutral position, and having suitable circuit changing means attached thereto.

1,918,474. BLANK-BOOK. WILLIAM R. HOTCHKISS, St. Paul, Minn. Filed Aug. 13, 1932. Serial No. 628,657. 4 Claims. (Cl. 281—40.)



1. A blank book having in combination a multiplicity of sheets each folded upon itself and having narrow bands of adhesive securing said folded sheets together on their outer surfaces and along lines parallel to and spaced from the fold lines, the portions of the sheets closely adjacent to the fold lines being free for limited separation from each other.

1,918,475. VEHICLE DOOR. MORRIS LASSINSKY, Brooklyn, N. Y. Filed Jan. 12, 1931. Serial No. 508,050. 7 Claims. (Cl. 296—106.)



1. In combination with a vehicle body having sides, an inclined guide rail secured to each side, an end door, hinge pins projecting from said door into said guide rails, a brace hinged at one end to the approximate center of one side of said door, a lug on the other end of said brace, a horizontal track on the side of said vehicle body adjacent said brace formed to allow longitudinal passage of said lug and having a recess to receive said lug near the rear end of the track to hold the door in a raised position.

1,918,476. CIGARETTE AND MATCH PACK. JOHN C. LEUKHARDT, Jr., Washington, D. C. Filed Feb. 23, 1932. Serial No. 594,702. 10 Claims. (Cl. 206—48.)



1. As an article of manufacture, a cigarette package having a pair of flaps, in combination with a match pack secured by said flaps, said match pack comprising a plurality of matches having individual withdrawing means projecting from their ends, said withdrawing means being detachably secured to a wall of said cigarette package.

1,918,477. PURIFICATION OF ELECTROLYTES. HERMANN LANG, Piesteritz Bes. Halle-on-the-Saale, and WILHELM MCLLER, Wittenberg, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed June 27, 1930, Serial No. 464,424, and in Germany June 28, 1929. 5 Claims. (Cl. 204—9.)

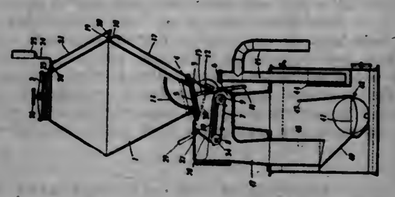
1. In a process for purifying by electrolysis an electrolyte from impurities dissolved therein, the steps which comprise passing said impure electrolyte through a meshed wire cathode and charging said cathode with a current density of at most one hundredth of the anodic current density.

1,918,478. SEALING GASKET. JOHN NOBLE LAYCOCK, Port au Prince, Haiti. Filed Feb. 13, 1931. Serial No. 515,633. 2 Claims. (Cl. 215—46.)



1. A gasket comprising an annular body portion, and a handle therefor, said handle having a bent inner end embedded in the body portion, the handle projecting from the edge of the gasket.

1,918,479. ACETYLENE GENERATOR. CHARLES STEPHEN MILNE, Deptford, London, England. Filed Apr. 25, 1931, Serial No. 532,935, and in Great Britain Apr. 30, 1930. 7 Claims. (Cl. 48—39.)

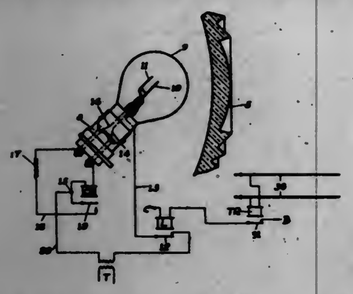


1. An acetylene generator comprising a carbide hopper, a conveyor chamber communicating therewith, a conveyor in said conveyor chamber, a generating chamber communicating with said conveyor chamber, gas tight sealing means for sealing said hopper from said conveyor chamber and means for interrupting and preventing discharge of carbide from the conveyor to the generating chamber, the said sealing means being so associated with the means for interrupting and preventing discharge of carbide from the conveyor that they can not be operated to effect a seal until the discharge of carbide from the conveyor has been interrupted.

1,918,480. LIGHT SIGNAL. EDMUND W. MOORE, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Nov. 5, 1927. Serial No. 231,292. 2 Claims. (Cl. 177—329.)

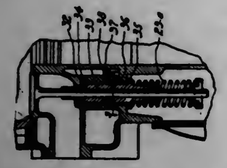
2. In a light signal, a casing, a doublet lens combination in the front of the casing, a single incandescent bulb positioned at the focus of said lens combination, a main filament in the bulb and on focus, a reserve filament in the bulb and off focus, and means for automatically cutting the reserve filament out of an energising circuit

when the main filament is intact and is in an energizing circuit, and for energizing the reserve filament upon failure of the main filament during its energization where-



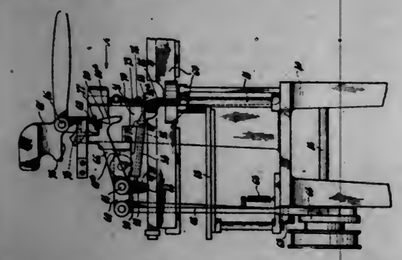
by to indicate failure of the main filament by the lessened intensity and the position of the beam produced by the reserve filament.

1,918,481. INTERNAL COMBUSTION ENGINE. ALFRED MOOSHOUSE, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 5, 1930. Serial No. 479,957. 11 Claims. (Cl. 123—188.)



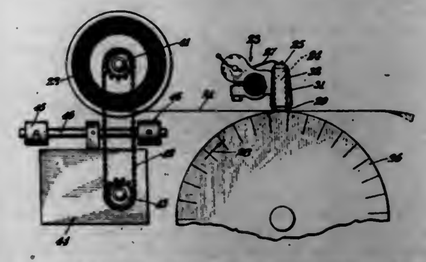
1. In an internal combustion engine, a cylinder structure having a port and valve seat and having an opening for a valve guide opposite the port, the opening being constricted at one portion thereof, a poppet valve for said port cooperating with said seat and having a stem extending through said opening, a valve stem guide having a rounded shoulder adapted to engage the constriction but otherwise loosely engaged within the opening and means for holding the guide within the opening.

1,918,482. MECHANISM FOR AUTOMATICALLY SELECTING AND SEVERING THE TERMINAL THREADS OF A STITCHED BOOK OR THE LIKE. OSKAR MÜLLER, Leipzig-Plagwitz, Germany, assignor to Gebruder Brehmer, Leipzig-Plagwitz, Germany, a Limited Partnership of Germany. Filed Oct. 14, 1931, Serial No. 568,854, and in Germany Apr. 17, 1931. 22 Claims. (Cl. 112—252.)



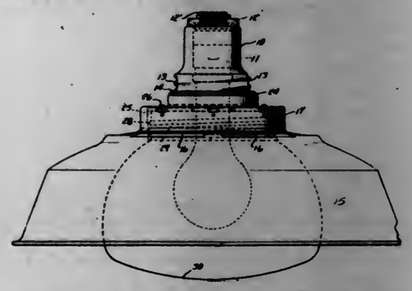
1. In a book-stitching machine, mechanism for severing the terminal threads of a stitched book or the like, comprising a thread-guiding member provided with a projection shaped to form a helical path leading from one side of the said thread-guiding member to the opposite side thereof, means for engaging said projection with a terminal thread to be severed so that the said thread is looped over the said thread-guiding member, and a thread severing device associated with the said thread-guiding member.

1,918,483. TRUING APPARATUS. HORACE D. MUNDAY, Schenectady, N. Y. Filed July 26, 1929. Serial No. 381,176. 12 Claims. (Cl. 51—244.)



1. A commutator truing device comprising a flexible abrasive member, a brush holder having a brush guide, a pressure block positioned in said guide and adapted to advance toward the commutator, means for drawing the abrasive member past the rotating commutator and under the pressure block, and friction means for hindering motion of said block.

1,918,484. LIGHTING FIXTURE. SHIRLEY R. NAYSMITH, Cleveland, Ohio, assignor to The Miller Company, Meriden, Conn., a Corporation of Connecticut. Filed Mar. 11, 1930. Serial No. 434,861. 6 Claims. (Cl. 240—78.)



1. A lighting unit comprising a downwardly acting reflector, a support for the reflector, said support terminating in a threaded neck made of copper, a porcelain enameled socket cover threaded to the neck of the reflector support, a socket in the socket cover, a lamp in the socket, a ring having a depending threaded flange secured to the reflector support, a diffusing glass bowl threaded into the flange and enclosing the lamp, a rubber gasket between the neck and socket cover and an asbestos gasket against which the glass bowl is brought when tightened in place.

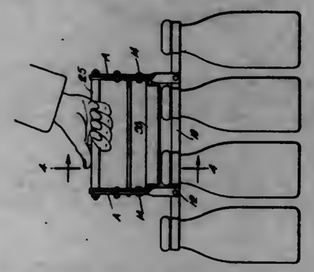
1,918,485. POLO MALLET HEAD. HANS P. NELSON, Grantwood, N. J. Filed Nov. 21, 1931. Serial No. 576,562. 2 Claims. (Cl. 273—67.)

1. A mallet head composed of expandable material and presenting a chamber and a cavity therein, there being an opening in said head for the reception of a handle and a groove arranged in the walls of said opening, each of said chamber and cavity being in communication with said groove when a handle is inserted in said opening and means positioned in said cavity whereby an expand-



able fluid may be passed to said cavity and into said chamber to stiffen said head and to expand the material adjacent said opening.

1,918,486. ARTICLE CARRIER. ABRAHAM ONOS, Hawthorne, N. J. Filed Feb. 9, 1932. Serial No. 591,913. 2 Claims. (Cl. 294—87.)



1. A device of the character described comprising a pair of article gripping jaws, a pair of spaced toggle members carried by the jaws, a handle member carried by the toggle members, and an article protecting shield carried by the toggle members and interposed between the article gripping jaws and the handle.

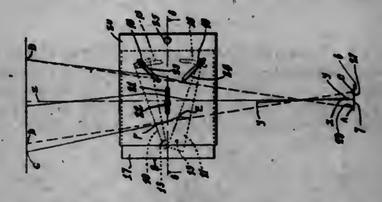
1,918,487. METHOD OF MAKING FINGER RINGS. SVEN A. PILBLAD, Boston, Mass., assignor, by mesne assignments, to Peters Patents Corporation, Boston, Mass., a Corporation. Original application filed June 16, 1930, Serial No. 461,393. Divided and this application filed May 13, 1931. Serial No. 537,036. 2 Claims. (Cl. 29—160.6.)



1. The method of making a finger ring comprising forming a band with a flat base portion, forming a hollow holding device and soldering said device on said base portion, placing a stone within said device, placing a design member upon said stone, and rolling over the upper portion of said device against said design member.

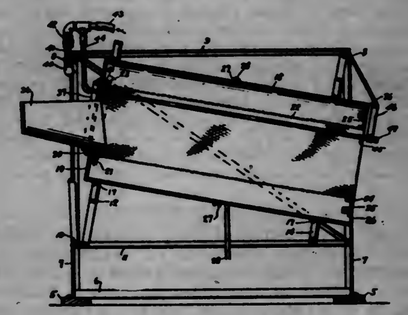
1,918,488. APPARATUS FOR PROJECTING MOTION PICTURES. GERALD F. RACKETT, Los Angeles, Calif., assignor to Association of Motion Picture Producers, Inc., Los Angeles, Calif., a Corporation of California. Filed Sept. 23, 1929. Serial No. 394,466. 4 Claims. (Cl. 88—24.)

4. The combination comprising a lens, a pair of small light refracting prisms positioned in operative relation with the lens, the prisms being normally positioned at an angle to one another with the apex of the acute angle of one prism being positioned adjacent a base angle of the other prism, pivotal means mounting the adjacent



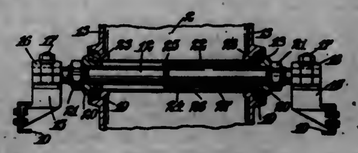
ends of the prisms and means for moving the prisms about their pivots to increase or decrease the angle between the prisms.

1,918,489. CYLINDER GOLD SEPARATOR. WILLIAM R. RENNINGER, Diamond, Ohio. Filed July 24, 1931. Serial No. 552,990. 1 Claim. (Cl. 209—42.)



A device of the class described comprising a supporting frame, a diagonally arranged cylinder rotatably supported therein and having its lower end open, a head having a centrally arranged opening therein closing the other end of the cylinder, lugs on the interior face of said head, adjacent the opening, a screen having a ring at one end portion resting on the lugs, said screen being of cylindrical shape and located in the cylinder, outwardly extending projections on the other end of the screen, friction material on the outer ends of the projections for frictionally engaging the internal wall of the cylinder at the lower end thereof, means for rotating the cylinder, a hopper extending into the opening in the head of the cylinder, means for spraying liquid into the hopper, a spray pipe passing through the cylinder and the screen, means for connecting the upper end of said pipe to a liquid supply, and a bracket connected with the lower end of the pipe and removably connected with a part of the frame.

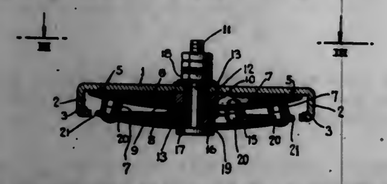
1,918,490. SUSPENSION MEANS FOR MOTOR-VEHICLE ENGINES OR GEAR-BOXES. PERCY RILEY, Coventry, England. Filed Apr. 13, 1933, Serial No. 666,031, and in Great Britain Nov. 21, 1932. 7 Claims. (Cl. 248—14.2.)



1. In a motor-vehicle having an engine and spaced frame members, a bar interconnecting said frame mem-

bers, said bar engaging opposite walls of said engine through resilient means, and means between said resilient means and within said engine providing a rocking engagement between said engine and said bar.

1,918,491. THERMOSTATICALLY CONTROLLED CIRCUIT CONTROLLER. OSCAR A. ROSS, New York, N. Y., assignor to General Plate Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Dec. 2, 1930. Serial No. 499,427. 18 Claims. (Cl. 200—138.)

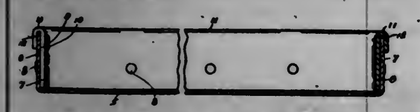


1. A quick-acting make and break switch comprising a supporting member, a thermostatic element having a movable portion thereof capable of assuming one of two substantially stable extreme positions in response to predetermined thermal conditions, a second thermostatic element having a movable portion thereof also capable of assuming either one of two substantially stable extreme positions in response to predetermined thermal conditions, means associated with the supporting member for supporting the elements in operative relation, the movable portion of one of the elements having a greater distance of travel than the similar portion of the other member.

1,918,492. MANUFACTURE OF MATERIAL SUITABLE FOR RECEIVING WRITINGS BY ELECTRODECOMPOSITION. RICHARD SCHMIDT, Dessau in Anhalt, Germany, assignor to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Oct. 15, 1929, Serial No. 399,883, and in Germany Oct. 16, 1928. 5 Claims. (Cl. 204—1.)

1. The process of manufacturing material for receiving writings by electrolytic decomposition which consists in impregnating a support with an acid aqueous solution containing a thiosulfate of the group consisting of an alkalimetal thiosulfate and ammonium thiosulfate, and a heavy metal salt capable of forming a double salt with said thiosulfates, and drying the material.

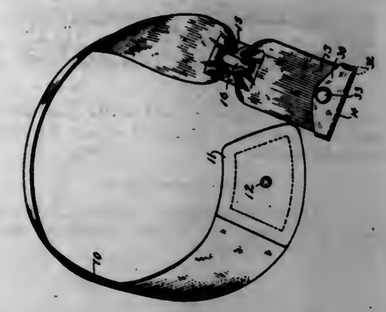
1,918,493. PAN COVER AND FRAME. FRED SCHULTZ, Cincinnati, Ohio, assignor to The Lockwood Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 4, 1931. Serial No. 561,108. 6 Claims. (Cl. 53—6.)



1. An article for baking and comprising a metal sheet having its edges turned down to provide flanges and a metal band extending longitudinally of and secured to the flanges and having its outer edge turned over and embracing the edges of said flanges for providing wear resistant non-abrasive hand protective rolled edges on which the article so formed is adapted to rest.

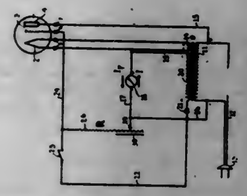
1,918,494. GARTER PENDANT. ROSSITER S. SCOTT, New York, N. Y. Filed Oct. 21, 1929, Serial No. 401,123. Renewed Dec. 27, 1932. 4 Claims. (Cl. 24—245.)

1. A pendant member detachably engageable with the fastener member of a leg band, the pendant comprising a vertical part composed wholly of plate material and provided at its lower end with a relatively movable cooperating part for attachment to a sock, said vertical part being in the form of an integral plate material piece,



with two cross slots near its center, and said relatively movable cooperating part being in the form of a strap passing through such slots and carrying a sock engaging member.

1,918,495. TUBE TESTER. DAVID E. SPARKS, Chicago, Ill. Filed June 6, 1930. Serial No. 459,479. 12 Claims. (Cl. 250—27.)

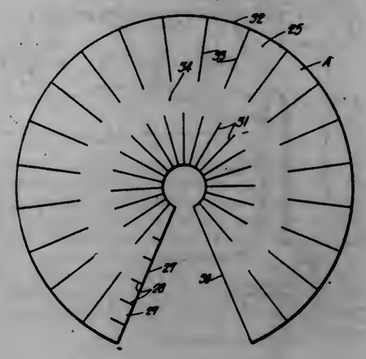


1. The method of testing grid controlled space-discharge tubes which comprises applying a source of alternating current to the plate circuit of said tube to produce a flow of current from the plate to the cathode of the tube, producing an auxiliary flow of rectified alternating current from said source during the period when the plate potential is positive, utilizing the auxiliary current flow to apply a control potential to the grid of the tube, and utilizing the combined effects of the auxiliary rectified current and the plate current change effected by the application of said control potential to said grid to indicate the characteristics of said tubes.

1,918,496. POTTERY AND METHOD OF MAKING THE SAME. MAE G. TARTER and ALBERT L. ROSE, Palm Springs, Calif. Continuation of application Serial No. 355,218, filed Apr. 15, 1929. This application filed Jan. 21, 1933. Serial No. 652,879½. 19 Claims. (Cl. 25—156.)

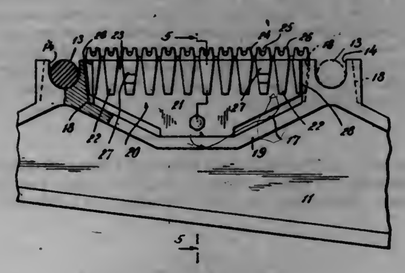
1. The method of making pottery including, providing a substantially C-shaped strip of flexible imperforate material, then connecting the ends of the strip together, then attaching a bottom forming member to the strip to cover the opening therein to provide a first section, then providing a second substantially C-shaped strip, connecting the ends of the second strip together, attaching a strip to the outer peripheral portion of the said second strip to provide a second section with a flared open end and a reduced end with an opening, applying plastic material to the inner

sides of the sections to form the inner wall of the pottery, placing the second section on the first section with the edge at the said open end seating on the upper edge of the first



section, and finally applying plastic material to the outer surfaces of the two sections and working the same into shape to form the exterior walls of the pottery.

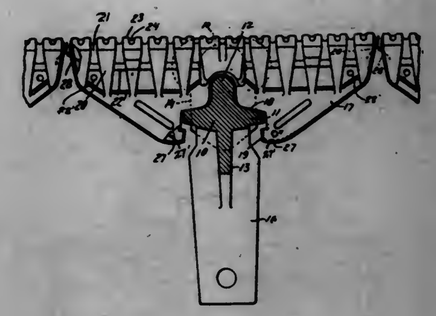
1,918,497. GRATE CONSTRUCTION. JAMES S. THOMPSON, New Rochelle, N. Y., assignor to Firebar Corporation, Cleveland, Ohio, a Corporation of Delaware. Filed Feb. 25, 1930. Serial No. 431,283. 7 Claims. (Cl. 126—152.)



1. A grate frame which comprises a web having spaced trunnion sockets and depressions between the sockets in its upper edge, a flange outlining said sockets and depressions and provided with slots in he opposite walls of each depression, and fuel-supporting units in said depressions, each unit having a projection at its lower end resting on said flange at the bottom of the depression, the units being spaced from said flange elsewhere in the depression and the ends of said units being received in said slots.

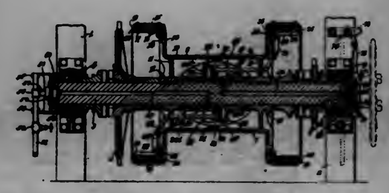
1,918,498. GRATE BAR. JAMES S. THOMPSON, New Rochelle, N. Y., assignor to Firebar Corporation, Cleveland, Ohio, a Corporation of Delaware. Filed Nov. 17, 1931. Serial No. 575,535. 11 Claims. (Cl. 126—163.)

1. A grate bar which comprises a carrier and a plurality of fuel-supporting units mounted transversely thereon, each unit comprising a sheet metal body resting edgewise on the carrier and containing a large central chamber, said body having a recess in its lower edge for reception



of said carrier and said chamber having an opening near its lower end for admission of air into said chamber, and an opening near its top for escape of air from said chamber.

1,918,499. WATER DISTRIBUTING SYSTEM FOR DRAW WORKS. DAVID S. FAULKNER, Los Angeles, and LEWIS E. ZERBE, Moneta, Calif., assignors to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Aug. 11, 1930, Serial No. 474,549. Renewed May 13, 1932. 32 Claims. (Cl. 188—264.)

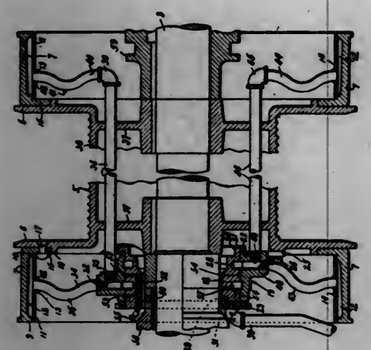


1. In a rotary draw works, the combination of a drum shaft, a drum supported on the drum shaft, a distributor and collector mounted within the drum, brake rims at the opposed ends of the drum, means for passing a cooling liquid to the distributor and collector, means for delivering the cooling liquid from the distributor and collector to the brake rims, means for returning the liquid to the distributor and collector, and means for conducting the liquid from the distributor and collector.

1,918,500. WATER COOLED BRAKE RIM. ALLEN ERWIN RICE, Hermosa Beach, Calif., assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 17, 1930. Serial No. 502,941. 13 Claims. (Cl. 188—264.)

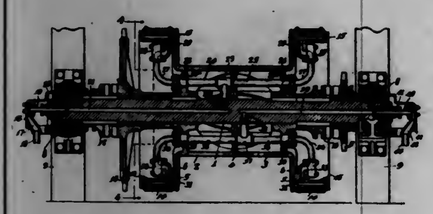
1. In a hoisting apparatus, the combination of a drum shaft, a drum mounted thereon, the drum having annular flanges mounted at its opposed ends, brake rims supported by said annular flanges and providing annular chambers around said shaft at the ends of said drum, a cooling water manifold mounted in one of said annular chambers including a stationary portion and a portion adapted and secured to rotate with said drum, the cooling water mani-

fold providing distribution and discharge manifolds, means connected with said distribution manifold for conveying cooling water to said brake rims, means for retaining the cooling water within and for causing the cool-



ing water to circulate within said brake rims, means for returning the circulated cooling water to the discharge manifold, and means for conveying the returned cooling water from said discharge manifold.

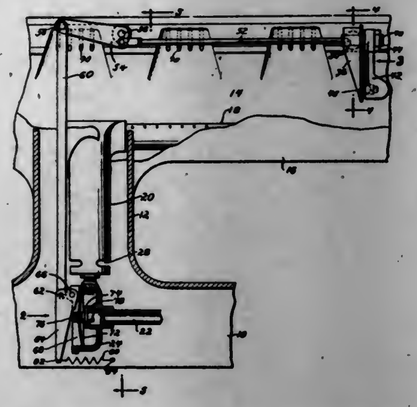
1,918,501. WATER COOLED BRAKE RIM FOR DRAW WORKS. JOHN D. SPALDING, Los Angeles, Calif., assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 1, 1932. Serial No. 596,069. 25 Claims. (Cl. 188—264.)



1. In a hoisting apparatus, the combination of a drum, a shaft upon which said drum is supported, spaced brake rims secured to said drum, means defining coolant chambers within said brake rims, inlet means for conducting a coolant longitudinally of said shaft, means for distributing said coolant to opposed brake rim chambers, means parallel with said inlet means for returning the coolant to said shaft, and outlet means extending longitudinally of said shaft for conducting said coolant from each of said chambers and from the hoisting apparatus.

1,918,502. CONTROL FOR IRONING MACHINES. HERMAN A. SPERLICH and JOHANNES H. UHLIG, Highland Park, Mich. Filed May 10, 1932. Serial No. 610,479. 2 Claims. (Cl. 236—1.)

1. In an ironing machine, a substantially vertical leg, an elongated horizontal shoe supported on said leg and having a free end, burners for said shoe, a gas supply line in said leg and leading to said burners, a valve in said leg for said supply line, means tending to close said valve, a plate fixed to said shoe, adjacent the free end thereof, a setting pointer journaled in said plate, and a link of less expansibility than and disposed parallel to said shoe, the link being operatively connected, at one end to said valve, and at the other end, to said setting pointer

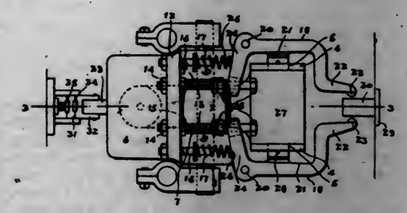


by a lost motion connection, whose lost motion can be taken up by manual adjustment of said pointer or by contaction of said shoe.

1,918,503. METHOD OF PREPARING ANTIPYRINE. CHARLES J. STROSACKER and CLARENCE C. SCHWEGLER, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Sept. 18, 1931. Serial No. 563,672. 7 Claims. (Cl. 260—45.)

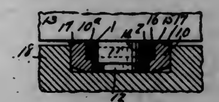
1. The method of preparing antipyrine which comprises reacting antipyrine-hydrobromide with an aqueous solution of an alkali in the presence of a solvent immiscible with water while agitating the reaction mixture, separating from the reaction mixture a solution of antipyrine in the solvent, extracting the antipyrine from said solution with water, evaporating the water therefrom to leave a residue of antipyrine, and recrystallising the antipyrine from monochlorobenzene.

1,918,504. ELEVATOR CONTROL SWITCH. HARRY C. TURNBULL, Toronto, Ontario, Canada. Filed July 18, 1931. Serial No. 551,737. 6 Claims. (Cl. 200—87.)



1. An elevator control switch comprising the combination of a circuit breaking member, a tilting member comprising a pair of relatively movable sections one of which is adapted to be displaced to operate said circuit breaking member, a stationary metallic member arranged in the path of movement of said last-mentioned section and magnetic means controlling the disposition of said last-mentioned movable section relative to the said other section and to said stationary magnetic member to determine the displacement of said first-mentioned section.

1,918,505. METHOD OF MOLDING ARTICLES WITH INSERTS. FRANK J. WALLENBERG, Tonawanda, N. Y., assignor to Jiffy Battery Terminal Corporation, Buffalo, N. Y. Filed Jan. 9, 1929. Serial No. 331,361. 11 Claims. (Cl. 18—59.)



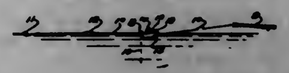
1. The method of floating a reinforcing insert into the interior of an article molded from originally loose dry plastic material, which comprises placing said insert in a cavity, compressing a measured quantity of said loose material partially around said insert in said cavity and partially compacting it, and then with the said material spacing the insert from molding dies, further compressing and compacting the same material in said dies and forcing it completely around and inclosing the insert.

1,918,506. PAD FOR MUSICAL WIND INSTRUMENTS. WILLIAM CAMPBELL WEEKS, Toronto, Ontario, Canada. Filed Nov. 27, 1929. Serial No. 410,137. 1 Claim. (Cl. 84—385.)



In a pad for musical wind instruments, the combination with an annular member of inflexible material and a disc of compressible material mounted in said annular member, of a rubber envelope of circular formation having a relatively small opening centrally of one wall thereof for the reception of said disc and said annular member, and means for drawing up the edges of said opening.
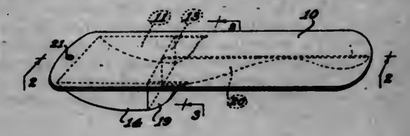
1,918,507. FLOAT FOR CASTING LINES. WILLIAM WESTLING, Minneapolis, Minn. Filed June 26, 1931. Serial No. 547,057. 5 Claims. (Cl. 43—51.)



1. A float having means at one end for attaching a casting line thereto, said line having a sinker attached to its outer end, said float having means for holding a portion of the line wound between its point of attachment to the float and the sinker, and means on the other end of the float for holding the line from unwinding during casting and for releasing the line and permitting the same to be unwound by the weight of the sinker after the float strikes the water.

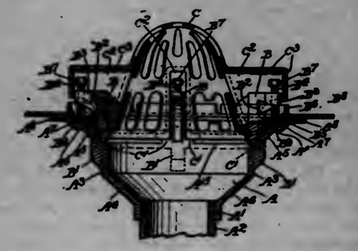
1,918,508. WATER SLED OR SURF BOARD. WILLIAM L. WHEELER, Los Angeles, Calif. Filed Jan. 21, 1932. Serial No. 587,950. 10 Claims. (Cl. 9—11.)

1. A water sled, surf board or the like comprising a board, means providing an air tight chamber on the under side of the board adjacent its forward end extending substantially the complete width of the board and from a point very close to the forward edge of the board rearwardly for a distance equal to about one-third of the length of



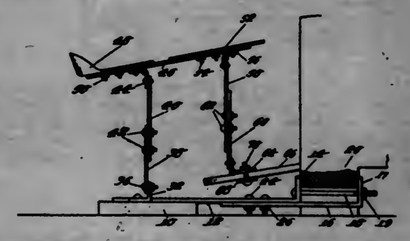
the board, said means serving not only to buoy up the forward end of the board but also as an impeller for impelling the board when used in surf riding.

1,918,509. ROOF DRAIN. PAUL M. WILCOX, La Porte, Ind., assignor to Wilcox Drain Corporation, La Porte, Ind., a Corporation of Indiana. Filed Jan. 7, 1931. Serial No. 507,110. 8 Claims. (Cl. 182—31.)



5. In a roof drain, a funnel, a plurality of holding lugs projecting upwardly from the inner wall and inside the mouth thereof, a clamping ring located between the lugs and the outer periphery of the funnel adapted to penetrate the mouth thereof, and means interposed between the lugs and the clamping ring and located above the mouth of the funnel for holding the clamping ring in position, said means comprising clamping blocks removably dove-tailed in the lugs and clamping screws threaded in the blocks adapted to engage the clamping ring, the clamping ring having an outer peripheral flange projecting upwardly outside of the blocks to protect the screws, and removable means associated with the funnel overlying the blocks, lugs and screws and extending downwardly toward the flange on the clamping ring to enclose the clamping means and a strainer penetrating the mouth of the funnel and integral with said clamp enclosing means.

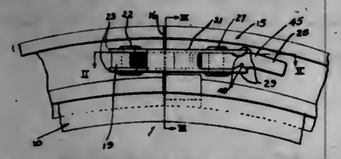
1,918,510. PIANO PEDAL EXTENSION. THOMAS WOODALL, Chicago, Ill. Filed May 25, 1932. Serial No. 613,343. 2 Claims. (Cl. 84—232.)



1. A piano pedal extension including a base and a pedal extension, and means for adjustably affixing the base to the piano, said means comprising a clamp adapted to be mounted on the piano and a slide member integral with

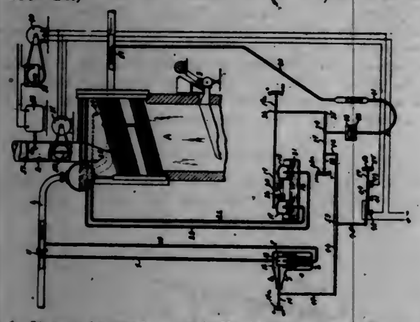
the clamp, a similar slide member mounted on the base, and bolts for adjustably connecting the two slide members, together with means for adjusting the height of the pedal extension, said means comprising a pair of slides, and bolts for locking the same in fixed relationship to each other, and a foot support adjustably mounted on the base, the foot support connecting the base and the pedal extension, the connections of the foot support to the base and the pedal extension comprising hinged mountings, and a further hinged mounting between the pedal extension and the pedal clamp.

1,918,511. RIM LOCK. ALVA W. WOODWARD and JOSEPH G. SWAIN, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 26, 1932. Serial No. 601,376. 15 Claims. (Cl. 152—21.)



1. In combination, an endless rim having a gutter, a split side ring received in the gutter, a post secured to one end of the side ring and extending laterally thereof, a link pivotally secured to said post, a lever pivotally secured to the link, a laterally extending post secured to the other end of the split ring and having a recess therein adapted to receive one end of the lever, the pivotal points of the link and lever being off center with respect to the contacting point between the lever and the recess, means on the link cooperating with the recessed post for holding the link in the locked position, and means on the link cooperating with the lever for holding the lever in the locked position.

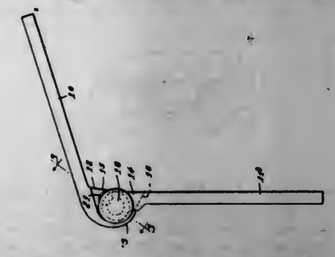
1,918,512. FEED WATER TEMPERATURE COMPENSATOR. JOSEPH C. ALBRIGHT and RAYMOND D. JUNKINS, Cleveland Heights, Ohio, assignors to Bailey Meter Company, Cleveland, Ohio, a Corporation of Delaware. Filed Jan. 27, 1930. Serial No. 423,803. 6 Claims. (Cl. 236—14.)



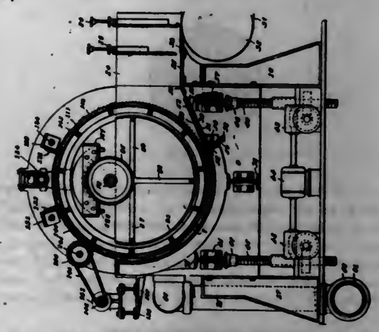
1. It may be used as an indicator or as an indicator or recorder by causing the steam flow meter to actuate its pointer 14 and the air flow meter its pointer 28, with a proper compensating effect upon one or the other thereof, such as the air flow pointer, according to variations in feed water temperature.

1,918,513. HINGE. JAMES T. ATWOOD, Rockford, Ill. Filed June 26, 1931. Serial No. 547,023. 5 Claims. (Cl. 16—161.)

1. In a hinge comprising an inner hinge member, an outer hinge member, one of said members being provided with knuckles and the other with registering knuckle recesses for hingedly connecting the members, and a hinge pintle entered through registering vertical holes in said members to complete the hinge connection, an oil well provided in one of said members comprising a substantially vertical hole provided therein opening off the upper knuckle recess and intersecting the hole for the pintle provided in said member, whereby to provide a repository for oil in direct communication with the pintle hole to conduct the oil to the latter.

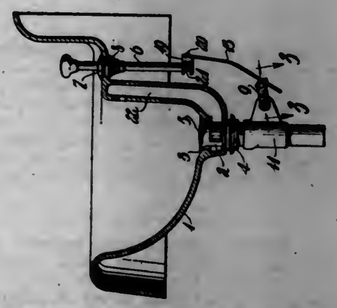


1,918,514. SCREEN TYPE FLOW EVENER. EARL E. BERRY, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a Corporation of Wisconsin. Filed May 2, 1932. Serial No. 608,625. 19 Claims. (Cl. 92—44.)



1. In a paper making machine, the combination with a web forming element, of a chamber positioned to supply stock directly to said web forming element, and means in said chamber for screening and evening the flow of said stock.

1,918,515. DRAIN FITTING. ERNST A. BESTE, Kohler, Wis. Filed Mar. 31, 1932. Serial No. 602,225. 9 Claims. (Cl. 4—203.)



1. In combination, a drain fitting, a valve positioned therein, a shaft revolubly mounted in said drain fitting, a finger extending from said shaft and engaging said valve, a crank arm mounted on said shaft, a lift rod and a spring interposed between said lift rod and said crank arm.

1,918,516. METHOD OF MANUFACTURING GARMENT HANGERS. WALTER I. BROWN, Oakland, Calif. Filed Jan. 4, 1932. Serial No. 584,598. 1 Claim. (Cl. 144—309.)



The method of manufacturing bow-shaped garment hangers and the like from material having a grain which comprises cutting from a piece of stock a bow-shaped block having at least one curved edge crossing the grain in different directions in different parts of the block, cutting a plurality of spaced grooves almost through said block to subdivide the block into a plurality of portions secured together by a relatively thin web, finishing said curved edge of each of said portions by a plurality of cuts each in the direction of said grain, and separating each of said portions at said web.

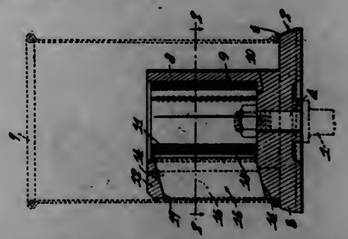
1,918,517. PRINTER'S BLANKET. WILLIAM C. CALVERT, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 17, 1930. Serial No. 429,205. 12 Claims. (Cl. 154—54.5.)



1. A printer's blanket comprising a heavy woven textile material having felted surfaces thereon, rubber coatings upon the felted surfaces, cement coatings upon the rubber surfaces and an outer coating of regenerated cellulose upon the cement.

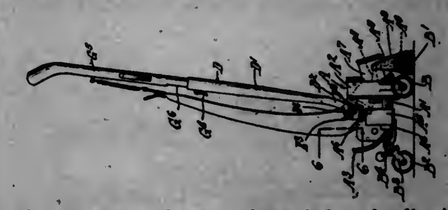
6. A printer's blanket comprising a body having secured thereto a coating of regenerated cellulose containing polyglycerol.

1,918,518. SPOOL HOLDER. RALPH H. CARTER, Johnson City, Tenn., assignor to American Glanzstoff Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 4, 1931. Serial No. 561,115. 5 Claims. (Cl. 242—130.)



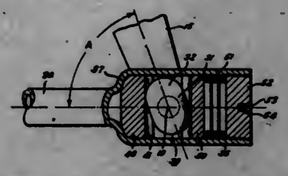
1. A holder adapted to receive a spool comprising a base, a cylindrical member, spaced ribs extending outwardly therefrom and having slots formed therein, correspondingly shaped holding blades mounted in said slots, and a resilient tube positioned in said cylindrical members and contacting with the inner edges of said holding blades, whereby the latter are maintained in engagement with a spool.

1,918,519. VACUUM CLEANER. WILLIAM J. CLEMENTS, River Forest, Ill., assignor to Clements Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed July 16, 1930. Serial No. 468,312. 6 Claims. (Cl. 306—11.)



1. In a vacuum cleaner, a cleaner body, a handle pivoted in relation thereto, means tending normally to move said handle into a generally upright position, including a lever, an operative connection between said lever and said handle, and yielding means tending normally to rotate said lever in a predetermined direction, and a housing within which said lever is pivoted, said housing being apertured to permit the lever to extend therefrom, opposite ends of said aperture being adapted to serve as limit means for limiting the arc through which said lever and handle may rotate.

1,918,520. STEERING MECHANISM FOR AUTOMOBILES. RALPH H. CHILTON, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed May 2, 1930. Serial No. 449,342. 10 Claims. (Cl. 280—95.)



1. In a steering gear for vehicles, a fore and aft extending drag link for steering the front wheels, a swinging pitman having a swivel joint with said drag link, said joint comprising: an elongated cam fixed to said pitman, a corresponding elongated cam seat fixed to said link and engaging one side of said elongated cam, a second cam seat retained in said link and yieldably urging the second cam seat against the other side of said cam, whereby a change of angularity between said link and pitman causes a longitudinal translation of said link relative to said pitman.

1,918,521. DENTAL BRUSH. EDWARD L. CHOTT, Chicago, Ill. Filed Sept. 28, 1932. Serial No. 635,175. 2 Claims. (Cl. 15—167.)

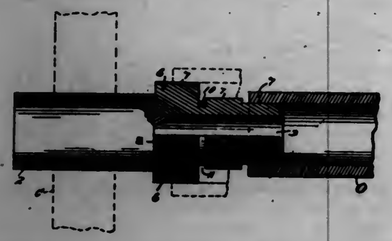


1. A dental brush having a shank, a brush, and bristles, said bristles having a coat of rubber adhesively embracing the outer bristles of said brush to the free end of the bristles.

1,918,522. EXPANDING MANDREL. HUBERT R. CRANE, Los Angeles, Calif., assignor of one-sixth to Orin J. Buckley, one-sixth to Earl H. McKeen, and one-sixth to Harry N. Haynes, Los Angeles, Calif. Filed Aug. 18, 1931. Serial No. 557,854. 1 Claim. (Cl. 82—44.)

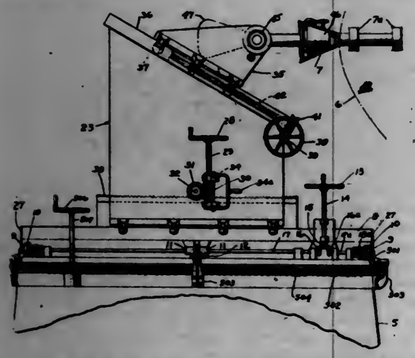
In a tool of the class described, a stock shank having elongated, longitudinal, parallel-angle shoulders parallel

to and equidistant from the axis of the shank, and an elongated, split collar formed of duplicate segments each of which has peripheral portions of various diameters along its length and each portion having external teeth for biting in a bore wall; said segments forming substantially



complete cylinders and operatively fitting said shank in either of reversed positions thereon, and said shoulders operative to thrust the segments radially according to the direction of shank rotation and enable biting effect of the teeth on rotation of the collar in either direction by the shank.

1,918,523. MOORING MAST. HORACE T. DYER, New York, N. Y., and HERMAN R. LIEBERT and FILLMORE D. SWAN, Akron, Ohio, assignors to Goodyear-Zeppelin Corporation, Akron, Ohio, a Corporation of Delaware. Filed June 24, 1931. Serial No. 546,520. 25 Claims. (Cl. 244—2.)



1. A method of manipulating airships which comprises anchoring the bow of an airship to a mobile mooring device, anchoring the stern of the airship to a second independently mobile mooring device and moving both mooring devices and the airship concurrently.

3. Mooring apparatus for air craft comprising a supporting base, cooperating carriage members mounted for relative controllable movement in an athwartship and fore and aft direction with respect to the ship to be moored, means for attaching the ship to the apparatus, a supporting carriage for said last named means, and means for adjusting said latter carriage independently of said first named carriage members.

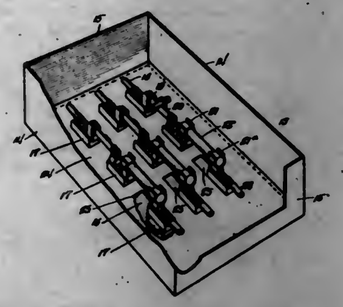
1,918,524. RESILIENT CONTAINER AND METHOD OF SEALING IT. BOYD C. EBERHARD, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Continuation of application Serial No. 348,451, filed Mar. 20, 1929. This application filed June 21, 1930. Serial No. 462,855. 6 Claims. (Cl. 152—13.)

1. A non-plastic rubber container for fluid under pressure having a valve stem extending therethrough, a valve seat portion upon the inner end of the valve stem, and a patch of permanently semi-plastic, semi-elastic, tacky



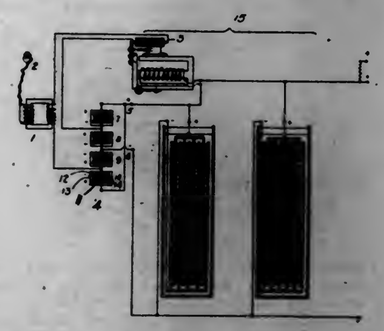
material disposed between the seat portion and the walls of the container.

1,918,525. PANEL BOARD. ROY R. ECKENRODE and LEONARD R. BOGARDUS, Detroit, Mich., assignors to Square D Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 23, 1925, Serial No. 17,525. Renewed May 2, 1931. 11 Claims. (Cl. 175—369.)



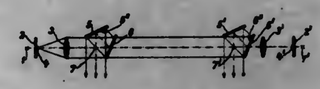
7. Electrical terminal mountings comprising blocks of insulation and a single member for holding said blocks spaced by lyng over a porton thereof, said member having means to permit adjustment of the positions of said blocks.

1,918,526. POLARIZED CONDUCTIVE COUPLE SUITABLE FOR USE AS A RECTIFIER, ETC. PHILIP E. EDELMAN, Chicago, Ill., assignor to Ephraim Banning, Chicago, Ill. Original application filed Jan. 26, 1927, Serial No. 168,734. Divided and this application filed May 14, 1928. Serial No. 277,710. 2 Claims. (Cl. 175—366.)



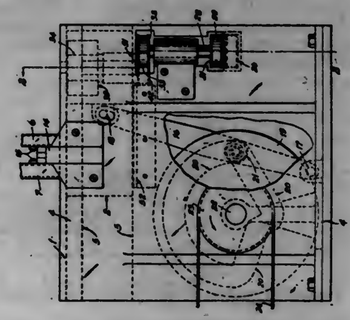
2. In a rectifier, the combination with electrodes, one of which is filmed, of a spacer positioned between the electrodes and composed of an impregnated fibrous sheet material, and said sheet thereby holding a crystallized electrolyte in contact with said electrodes, said electrolyte being fused and operable without the addition of water thereto.

1,918,527. RECTIFYING DEVICE FOR RANGE FINDERS. OTTO EPPENSTEIN, Jena, Germany, assignor to Firm Carl Zeiss, Jena, Germany. Filed Mar. 22, 1932, Serial No. 600,499, and in Germany Mar. 28, 1931. 2 Claims. (Cl. 88—2.7.)



1. A rectifying device for rangefinders, comprising two angular reflectors, these angular reflectors being so constructed as to direct to the entrance apertures of a rangefinder rays of a common pencil of parallel light rays, at least one reflecting surface of each of the said angular reflectors partly reflecting, and partly being traversed by, each light ray striking it.

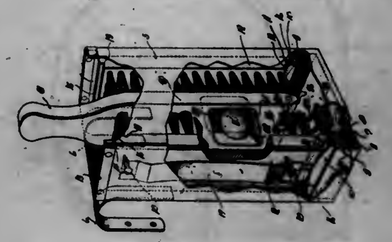
1,918,528. MEANS FOR ASSEMBLING NUTS AND BRIDGE WASHERS ON VALVE STEMS. JOHN A. FLEISCHLI, Clayton, and JOSEPH M. KOUNTZMAN, St. Louis, Mo., assignors to Cupples Company, Manufacturers, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 4, 1931. Serial No. 527,834. 8 Claims. (Cl. 29—84.)



1. In a means for applying nuts and bridge washers to threaded valve stems, an assembling station where the parts are assembled, said station being provided with driving means to rotate the nuts, and a reciprocating device whereby the nuts and bridge washers are delivered to said assembling station, said reciprocating device including a rotary wrench having a socket to receive the nuts and a recessed seat to receive and prevent rotation of the bridge washers.

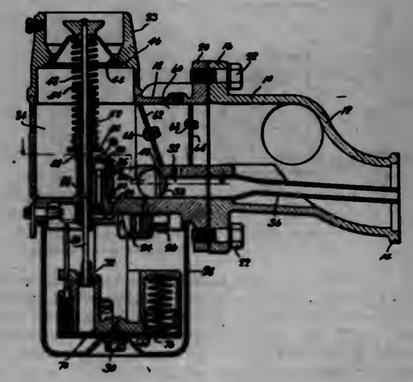
1,918,529. GOLF BALL WASHER. GORDON G. FRAZER, Watertown, Wis., assignor to G. B. Lewis Company, Watertown, Wis., a Corporation of Wisconsin. Filed June 11, 1930. Serial No. 460,457. 8 Claims. (Cl. 15—21.)

3. In a brush mounting of the character described, a base member, spaced inwardly extending lips carried by the base member and forming a brush receptacle, one of said lips being longer than the other, a brush mounted within said receptacle, said brush being longer than the distance from the tip of the longer lip to the surface of said receptacle adjacent said shorter lip and shorter than the distance from the lip of the shorter lip to the sur-



face of the receptacle adjacent the longer lip, means constantly urging said brush outwardly against said lips, and means constantly urging said brush against the side of the receptacle adjacent the shorter lip.

1,918,530. CHARGE FORMING DEVICE. FREDERICK D. FUNSTON, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 23, 1930. Serial No. 454,917. 14 Claims. (Cl. 261—41.)

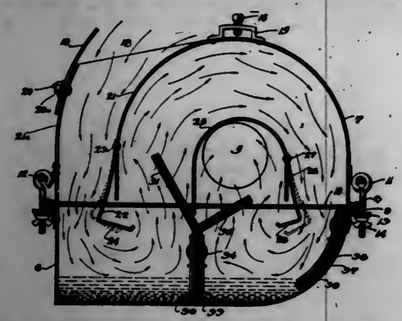


1. A charge forming device for internal combustion engines, comprising, a plurality of separate primary mixture passages adapted to supply a primary mixture of air and fuel to a plurality of separate secondary mixing chambers, means for supplying air to said primary mixture passages, means for supplying equal amounts of fuel to each of said primary mixing chambers comprising a fuel feeding orifice in each of said mixture passages, fuel passages leading from a source of fuel supply to said fuel feeding orifices, and air inlet means supplying air to said fuel passages the same distance from each of said fuel feeding orifices, whereby the same amount of fuel is supplied to each of said mixture passages.

1,918,531. AIR WASHER. RALPH R. GENTRY, Spokane, Wash., assignor of one-half to George H. La Barre, Spokane, Wash. Filed Feb. 29, 1932. Serial No. 595,864. 6 Claims. (Cl. 183—12.)

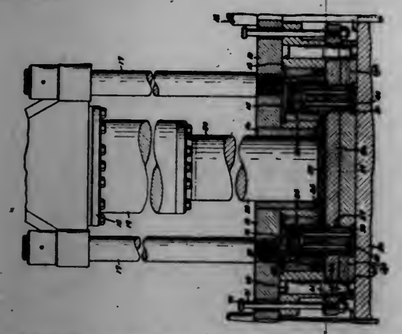
1. In an air-washer the combination with an oil tank, of a separable casing having an intake port and an outlet

port and mounted on the tank, means for fastening the casing and tank, means within the washer forming a heli-



coid passage for air currents between the intake port and the outlet port, and said means including filters pervious to air and adapted to deflect the air currents.

1,918,532. MOLDING PRESS. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed May 2, 1930. Serial No. 449,209. 9 Claims. (Cl. 18—19.)



4. A molding press for molding and hardening articles under high pressure from a plastic compound of bituminous material comprising: a mold having a mold cavity within which the plastic compound is highly compressed to form the molded article, means for withdrawing the molded article axially from said mold cavity, an air escape valve located in said mold for permitting escape of air from said cavity as it is being filled with molding material, said valve being closed automatically by pressure of the molding material thereupon during filling, and automatic positive means for opening said valve after each molding operation.

1,918,533. ELECTRIC CONNECTER PLUG. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed July 30, 1932. Serial No. 626,989. 4 Claims. (Cl. 173—361.)



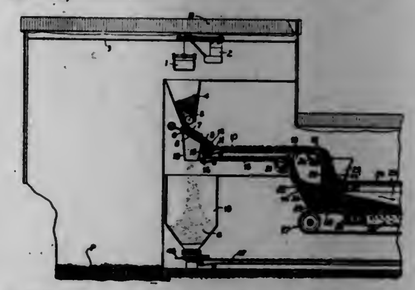
1. An electric connecter plug for an electric conductor, comprising: a molded soft rubber body having an aperture for receiving a metal contact member, an aperture for receiving the electric conductor, and a laterally open recess permitting access to connect said contact member and conductor after they are inserted in said apertures, and having an integral soft rubber skirt adapted to be doubled back upon and form a snug casing for said soft rubber body after said connection is made.

1,918,534. MACHINE FOR APPLYING PAINT OR THE LIKE TO SHINGLES, ETC. HARRY E. GOSCH, North Tonawanda, N. Y., assignor to Creo-Dipt Company Inc., North Tonawanda, N. Y., a Corporation of New York. Filed Oct. 16, 1930. Serial No. 489,123. 4 Claims. (Cl. 214—8.5.)



1. A machine for feeding shingles and the like, comprising a supply box adapted to hold a supply of shingles and having a bottom, a rear wall and two side walls, and at least one of said side walls being separated at its lower edge from said bottom to form a passage for said shingles, and also capable of vertical floating movement, stop means for limiting the downward movement of the respective side wall so as to maintain a passage at all times between the lower end thereof and the bottom of said box, and means for feeding one course of shingles at a time from the underside of the pile in the box through said passage and lifting said floating wall out of the path of the respective shingles and enabling the latter to leave said box.

1,918,535. METHOD OF DISPOSING OF REFUSE MATTER. JOHN E. GREENAWALT, New York, N. Y. Filed June 3, 1931. Serial No. 541,768. 6 Claims. (Cl. 110—8.)



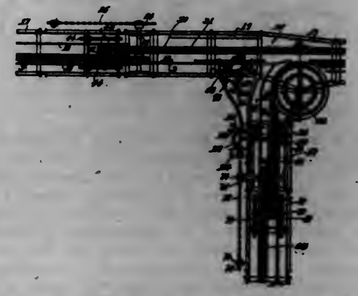
1. The method of disposing of combustible refuse matter which consists in separating the matter into at least two components according to uniformity of combustibility, charging said components in layers on an air pervious support, igniting said charge at the surface having the greatest uniformity of combustibility, and causing a supporter of combustion to traverse the charge from the ignited surface to the opposite surface whereby combustion proceeds throughout the charge.

1,918,536. AEROPLANE WING. ROGER W. GRISWOLD 2d, Black Hall, Conn. Filed Oct. 17, 1929. Serial No. 400,192. 2 Claims. (Cl. 244—12.)



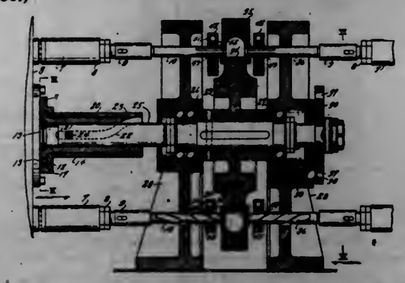
1. An aeroplane wing having a movable leading edge and provided with slots extending through the wing from top to bottom with the portions to the front and rear of the slot relatively rigid; closures for said slots; and a connection between the closure and the movable leading edge opening said slots as the leading edge is moved forward on the wing.

1,918,537. CONVEYING MECHANISM. EMIL EDWARD HAGELINE, Chicago, Ill., assignor to Harry D. Lathrop, Chicago, Ill. Filed Aug. 6, 1931. Serial No. 555,526. 6 Claims. (Cl. 198—21.)



1. Conveying apparatus of the character described, comprising, in combination, a main article conveyor having a channel chain guideway and a flexible conveyor chain arranged to travel in said guideway and to project above the upper surface thereof for supporting contact with articles being conveyed thereon, an auxiliary article conveyor for discharging articles laterally onto said main article conveyor and having a channel chain guideway extending in proximity to said main conveyor at the communicable junction of said auxiliary conveyor therewith, a supplemental channel chain guideway disposed in said main article conveyor in parallel cooperative relation to the first mentioned channel chain guideway thereof and functioning as a continuation of said channel chain guideway of the auxiliary article conveyor, an auxiliary flexible conveyor chain arranged to travel on said channel chain guideway in the auxiliary article conveyor and on said supplemental chain channel guideway in said main article conveyor, said auxiliary chain projecting above the upper surfaces of said guideways for supporting contact with articles conveyed thereon, power means for driving said main and auxiliary conveyor chains simultaneously and at the same speed, and means for movably supporting said auxiliary conveyor chain between the channel chain guideway of the auxiliary article conveyor and the supplemental channel chain guideway of the main article conveyor.

1,918,538. TURRET INDEXING MEANS. GEORGE E. HALLENBECK, Toledo, Ohio, assignor to Baker Brothers, Inc., Toledo, Ohio, a Corporation of Ohio. Filed May 15, 1930. Serial No. 452,791. 21 Claims. (Cl. 29—50.)



1. A mounting, a reciprocable first member carried by said mounting, a rotary holder on the member, a second member also carried by the mounting, a holder movable on the member in a plane perpendicular to the rotary reciprocation, a drive for effecting the reciprocation of the first member in sequence, and an actuation-effecting transmission for the second member from the first member including between said members a step by step device embodying a sleeve having a curved slot and a pin coacting with said slot.

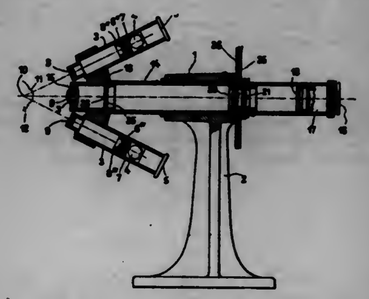
10. A machine tool embodying a reciprocable first member, an opposing second member, a second member shifting connection from the first member comprising a pair of relatively telescopic elements, one connected to each member coacting on first member idle travel to give a predetermined step travel for the second member, register control positioning means between the members, and holding means for the second member against recover travel during working travel of the first member.

1,918,539. BEAD STRUCTURE FOR PNEUMATIC TIRES. GEORGE A. HANDY, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 3, 1931. Serial No. 541,938. 2 Claims. (Cl. 152—18.)



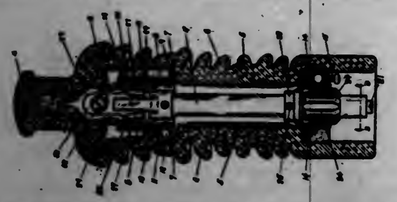
1. In a bead structure for use in a pneumatic tire casing, a substantially circular inextensible member, a covering therefor comprising a strip of cross-woven fabric surrounding said member and having its margins extending outwardly therefrom, and an intermediate layer of cord fabric between said margins.

1,918,540. INSTRUMENT FOR MEASURING THE CURVATURE OF THE CORNEA. HANS HARTINGER, Jena, Germany, assignor to the Firm of Carl Zeiss, Jena, Germany. Filed Mar. 12, 1931, Serial No. 521,969, and in Germany Mar. 13, 1930. 7 Claims. (Cl. 88—20.)



1. An instrument for measuring the curvature of the cornea, comprising an optical observing device, two collimator lenses, each collimator lens containing in its focal plane a test object, the collimator lenses being so disposed on the observing device that their axes lie in one plane with the axis of the observing instrument and intersect this axis at unchangeable angles approximately at one point, and a stop disposed in the observing device and having two apertures lying outside the axis of the observing device in a plane containing this axis and the axes of the two collimators.

1,918,541. FUSE AND DISCONNECT SWITCH. WALTER A. HEINRICH, St. Louis, Mo. Filed Sept. 16, 1929. Serial No. 392,920. 19 Claims. (Cl. 200—129.)



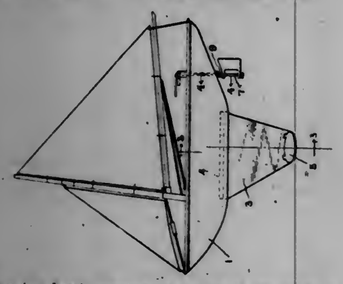
1. In a switch, an enclosure therefor, a switch blade element, a handle therefor, contact members carried by the enclosure and blade element, and means independent of said contacts for securing said blade element in switch closing position, whereby the element is adapted to be locked in switch closing position, said means adapted for actuation by the handle independently of relative movement of said contacts to permit unlocking of the blade element from said enclosure by endwise movement of the element relative to the enclosure.

1,918,542. HINGING MEANS FOR OUTDOOR SWITCHES. WALTER A. HEINRICH, St. Louis, Mo. Original application filed May 16, 1929, Serial No. 360,781. Divided and this application filed Aug. 4, 1930. Serial No. 472,999. 4 Claims. (Cl. 200—166.)



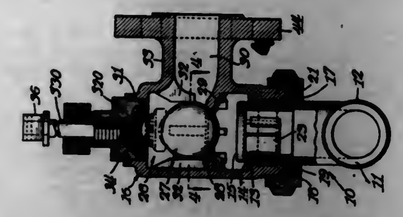
4. In a switch assembly, a demountable blade member having trunnions projecting from opposite sides near one end thereof, and an arcuate fin having a recess in its outer margin, projecting from the blade member between said trunnions; a hinge member comprising a pair of substantially flat, parallel arms, having marginal portions terminating convergingly in open sided trunnion seats, and a cross piece connecting the arms, having a centrally recessed lip adapted for engagement by said fin, said fin and lip coacting to prevent removal of the blade from the hinge member except when the blade is rotated sufficiently to bring the recessed portion of said fin opposite the notched portion of said lip.

1,918,543. SAIL BOAT. SAMUEL HOFFMAN, South Orange, N. J., assignor to J. Chein & Company, Harrison, N. J., a Corporation of New York. Filed July 27, 1931. Serial No. 553,312. 4 Claims. (Cl. 46—37.)



1. In a toy boat constructed of sheet material, a groove in the said material formed by bending the same, a keel, a bead on the upper marginal edge of the keel inserted in the said groove and secured therein by frictional contact with the sides of the groove.

1,918,544. COMBINED AUTOMATIC STOP AND CHECK VALVE. CHARLES M. HOUSE, Bloomington, and CARL J. CLUTTER, Normal, Ill. Filed Aug. 15, 1930. Serial No. 475,480. 2 Claims. (Cl. 277—70.)

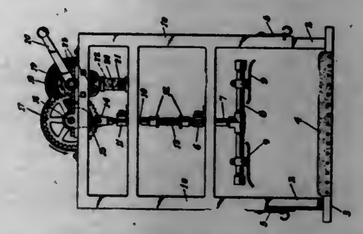


1. In a device of the class described, a valve cage, a partition within said cage dividing the same into an upper and a lower valve chamber, an intake passage for said lower valve chamber, a discharge passage extending laterally from said upper chamber, said partition being provided with an unobstructed port, an automatically operated ball stop valve normally seating by gravity, for said port, an automatically operated check valve for controlling the flow of a fluid into said cage from said intake passage, means for forcing said stop valve to its seat and retaining the same thereon, a drain passage for draining the space between said valves and a closure for said passage.

1,918,545. METHOD OF FABRICATING METAL PARTS OF MAGNESIUM OR MAGNESIUM ALLOYS. JOHN E. HOY, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed June 3, 1930. Serial No. 459,115. 4 Claims. (Cl. 148—8.)

1. The method of sizing a metal article composed of magnesium or a magnesium base alloy which comprises immersing such article in a strong aqueous mineral acid solution to dissolve off surplus metal uniformly from the surface thereof, removing the article from the solution when the dimensions thereof have been reduced to the desired finished dimensions, washing off adhering acid solution and drying.

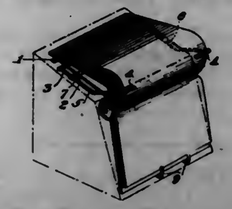
1,918,546. ARTIFICIAL RESPIRATOR. BERNARD O. JOHNSON, Sonora, Calif. Filed May 31, 1929. Serial No. 367,195. 4 Claims. (Cl. 128—28.)



1. An artificial respirator including spaced presser-pads for engagement with the back of a patient over the lungs, a vertical stem from which said pads are supported, bearing means in which said stem is slidable, another stem slidably mounted in connection with said first stem, a compression spring about and fixed at its ends in connection with the stems to force them normally apart a certain distance, and operating means arranged to intermittently engage and depress the second named stem and then suddenly release the same; the spring being compressed only when the pads are engaged with a patient and the second named stem is depressed.

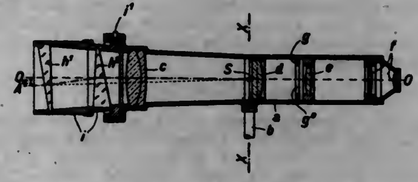
CARNEGIE LIBRARY OF ATLANTA

1,918,547. BOOK PAGE HOLDER. PAUL KOBLER, Lynbrook, N. Y. Filed Dec. 22, 1931. Serial No. 582,544. 2 Claims. (Cl. 45—57.)



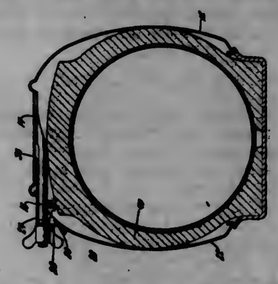
1. A page holding device comprising supporting means, a pair of spaced opposed levers each having at one end a lateral extension projecting toward the other lever so spaced from the support and the levers so pivoted that said projections may overlie and play parallel to the leaves of a book resting on said support and means so connecting said levers, that when one lever is moved the other moves in the opposite direction to engage over or disengage from said leaves.

1,918,548. TACHEOMETRIC TELESCOPE. ALBERT KÖNIG, Jena, Germany, assignor to the Firm Carl Zeiss, Jena, Germany. Filed Apr. 13, 1931, Serial No. 529,776, and in Germany Apr. 17, 1930. 8 Claims. (Cl. 88—2.2.)



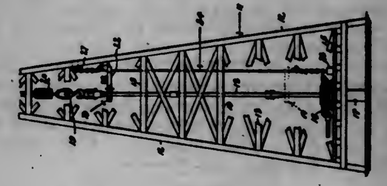
1. A tacheometric telescope rotatable about a vertical axis, containing optical members attached before at least one of the two halves of the telescope objective, the combination of these optical members and the objective, with respect to the exponents of refraction, the inclination of the surface towards the telescope axis, and the interstices between the different surfaces, measured in the axis of the telescope, being adapted to so deviate two rays, which traverse the said two halves of the objective, respectively, and intersect in the said vertical axis, that these rays coincide with each other subsequently to their exit from the objective.

1,918,549. TIRE COVER. THOMAS J. MCCORMICK, Detroit, Mich. Filed Oct. 21, 1930, Serial No. 490,193. Renewed Oct. 21, 1932. 5 Claims. (Cl. 150—54.)



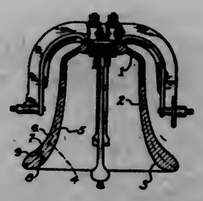
5. In a tire cover, a front section including a face portion and a semi-tread portion, and a rear section including a semi-tread portion, the semi-tread portions of the sections being relatively telescoped to form a complete tire cover with an edge part of the front section overlapping an edge part of the rear section, and means for maintaining the sections in assembly, said means being peripherally spaced and including parts relatively adjustable in a direction parallel to the central axis of the cover, the means being disposed at least partially inside of and secured to the semi-tread portion of the front section, and engaging behind the rear surface of the semi-tread portion of the rear section, the means extending across the semi-tread portion of the rear section.

1,918,550. APPARATUS FOR ORIENTING SUSPENDED PIPES AND THE LIKE. ROY P. MCLAUGHLIN, South Pasadena, Calif. Filed Mar. 16, 1931. Serial No. 522,977. 3 Claims. (Cl. 33—1.)



1. In combination with a derrick structure, means for holding a pipe or the like against rotation during vertical movement thereof through said derrick structure embodying: an upright guide member; adjustable means for securing the upper and lower portions of said guide member to said derrick; and an arm secured to said pipe and slidably engaging said guide member, said guide member being of a nature such as to hold said pipe and said arm against rotation.

1,918,551. CONSTRUCTION OF BELLS. SIDNEY B. MERRILL, Cincinnati, Ohio, assignor to The E. W. Vandusen Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 13, 1931. Serial No. 522,390. 7 Claims. (Cl. 116—148.)

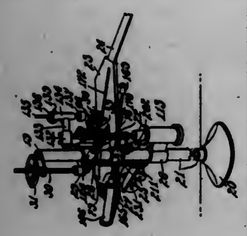


1. A process of producing a bell which comprises determining the size and relationship of the several parts of a bell and producing a fundamental curve, determining the weights of metal in the several parts of the bell, and so proportioning these weights in the finished bell, that the masses of metal will be disected by said fundamental curve at all points.

1,918,552. WIRING MACHINE. JOSEPH P. MINGLE, Muncie, Ind., assignor to Ball Brothers Company, Muncie, Ind., a Corporation of Indiana. Filed Sept. 8, 1931. Serial No. 561,674. 27 Claims. (Cl. 140—94.)

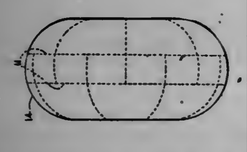
1. In a device of the character described, means engageable with a pair of wire ends to cross said ends, and

a twister head associated with said means, said twister head comprising an element provided with two notches to



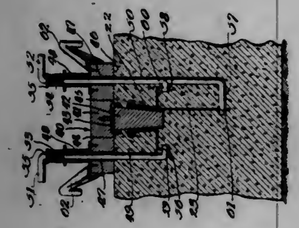
laterally receive said respective wire ends, and means for clamping said wire ends in said notches each against one wall of said slot, and means for rotating said head.

1,918,553. PNEUMATIC TIRE AND METHOD OF MAKING IT. ALVIN J. MUSSELMAN, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 4, 1929. Serial No. 397,389. 6 Claims. (Cl. 154—14.)



4. A method of making a tire which comprises severing a sheet of tire building material into a plurality of trapezoidal elements, arranging the elements substantially radially upon both sides of an annulus, and securing the opposite-parallel edges of each element adjacent the inner and outer circumferential portions, respectively, of the annulus, with the elements from the opposite sides of the annulus being overlapped at the outer circumference of the annulus.

1,918,554. EXPANSION JOINT FOR PAVEMENT AND THE LIKE. CLIFFORD OLDER, Wilmette, Ill. Filed Aug. 8, 1931. Serial No. 555,949. 9 Claims. (Cl. 94—18.)

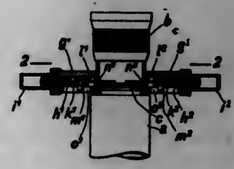


1. In an expansion joint, the combination of a pair of sections of concrete with an expansion strip having anchoring portions embedded in each of said concrete sections, a pair of substantially parallel flanges joined together to form a main expansible fold, and a pair of substantially cylindrical beads joining said parallel flanges with said anchoring portions.

1,918,555. BOILER COMPOUND. EDWIN M. PARTRIDGE, Hammond, Ind., assignor to National Aluminate Corporation, Chicago, Ill., a Corporation of Delaware. Filed Mar. 16, 1932. Serial No. 599,327. 3 Claims. (Cl. 87—27.)

3. The process of treating water which comprises contacting the same with briquettes containing soda ash, caustic soda and chestnut extract and with briquettes containing soda ash, sodium aluminate, caustic soda and dextrine.

1,918,556. INDICATING DEVICE FOR MEASURING INSTRUMENTS. FRIEDRICH PFAU, Jena, Germany, assignor to the Firm of Carl Zeiss, Jena, Germany. Filed May 1, 1931, Serial No. 534,313, and in Germany May 8, 1930. 2 Claims. (Cl. 88—2.2.)



1. In an indicating device for measuring instruments, a scale and an index coacting with the scale, a light filter, this light filter covering at least one of the ends of the scale, and means for adjusting the light filter in the direction of the scale.

1,918,557. NUT RUNNING APPARATUS. FRED BROWN PFEIFFER, Akron, Ohio, assignor to Cupples Company, Manufacturers, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 18, 1930. Serial No. 503,202. 12 Claims. (Cl. 29—84.)

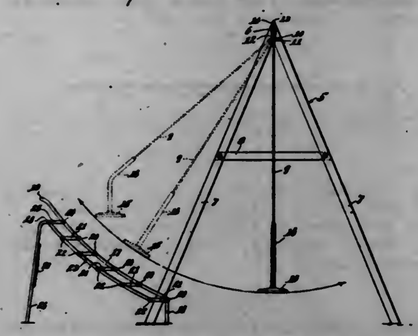


1. In apparatus of the character described, the combination of a magazine containing nuts, a magazine containing bridge clips, a socket wrench, and a reciprocable slide adapted first to remove a nut from its magazine and to position it in determinate relation to the socket wrench, and then to perform a similar operation with a bridge clip.

1,918,558. METHOD FOR THE TREATMENT OF PLANTS, PARTS OF PLANTS, AND RAW FIBERS. HENDRICUS PLANT, Wassenaar, Netherlands. Filed Dec. 6, 1932, Serial No. 645,951, and in the Netherlands Nov. 2, 1932. 8 Claims. (Cl. 92—14.)

1. A method of treating plants, parts of plants and raw fibers, characterized in that the said material is first boiled in an aqueous solution of alkaline hydroxides, and that then the material is successively treated in a hot or cold aqueous solution of sulphuric acid, an aqueous solution of alkaline hydroxides and an aqueous solution of an acid, the material being washed by hot water after treatment in each solution.

1,918,559. AMUSEMENT APPARATUS. GEORGE EDWARD PAUESSNER, Chesterfield, Mo. Filed Apr. 18, 1932. Serial No. 605,835. 10 Claims. (Cl. 272—57.)



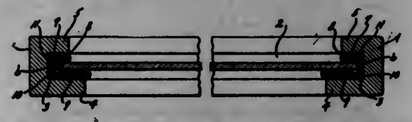
1. The combination of a swing, and a taking off device in cooperative relation to said swing, said taking off device having a series of separate platforms at different elevations in stepped relation to each other and substantially equidistant from the pivot of the swing.

1,918,560. METHOD OF MAKING A PHOTOGRAPHIC ELEMENT FOR COLOR PHOTOGRAPHY. PAUL REHLÄNDER, Berlin-Charlottenburg, Germany. Filed Apr. 2, 1932, Serial No. 602,772, and in Germany Apr. 7, 1931. 1 Claim. (Cl. 95—2.)



The method of producing a light-sensitized material for taking, copying and reproducing photographs in natural colors, which comprises coating a transparent support with a fine-grained emulsion containing a light-absorbing dye-stuff soluble in water, photographically copying a screen on that surface of the emulsion which contacts the said support, developing, fixing and washing, and then coating the other surface of the previous fine-grained emulsion employed with a panchromatic emulsion.

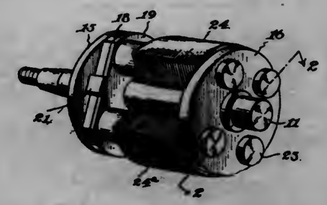
1,918,561. GLASS RUN CHANNEL. JAMES S. REID, Shaker Heights, Ohio, assignor to The Reid Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 21, 1931. Serial No. 524,318. 4 Claims. (Cl. 296—44.5.)



1. A glass run channel, comprising a generally channel-shaped glass-receiving structure having a base and a pair of glass-engaging side walls, one of said side walls having a width or depth materially greater than that of said other side wall and said wider or deeper side wall being transversely curved inwardly toward said other side wall.

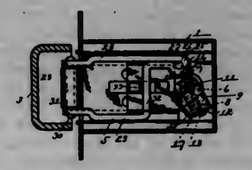
1,918,562. MAGNETO. CURT F. REIS, Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 27, 1931. Serial No. 577,682. 9 Claims. (Cl. 171—209.)

1. A rotor for a rotating field type of magneto, including a shaft, a plate assembly including a permanent magnet plate, a non-magnetic plate and locking means associated with one of said plates and engaging the other thereof, for preventing relative rotational movement between said plates, a plurality of permanent bar magnets



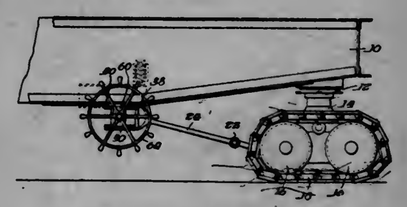
in magnetic contact with said magnet plate and forming a continuation of the magnetic circuit thereof; and means for securing said plate assembly against rotation on said shaft.

1,918,563. LATCH. GORDON E. ROEDDING, Grand Rapids, Mich., assignor to Grand Rapids Brass Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Dec. 11, 1931. Serial No. 580,271. 9 Claims. (Cl. 292—335.)



1. In a device of the class described: a keeper applied to a door member, a latch applied to a relatively movable door member comprising a bolt movable to operative engagement with the keeper and to retracted position, a swingable arm, a spring pressing directly between the arm and the bolt urging the bolt to operative position in one swung position of the arm and yieldingly holding the bolt in retracted position in another swung position of the arm, a trigger movable by its engagement with the first-mentioned door member in the closing movement of the other door member to swing the arm to its first-mentioned position, and means for moving the bolt to retracted position.

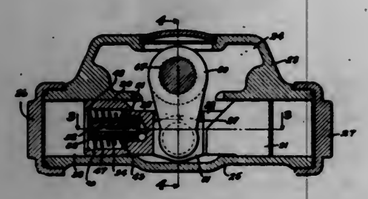
1,918,564. STEERING CONSTRUCTION FOR TRACTOR UNITS. CLAUDE ROBABECK, Chicago Heights, Ill. Filed May 7, 1931. Serial No. 535,664. 4 Claims. (Cl. 180—9.1.)



1. In an excavator, a tractor unit supporting one corner of the frame of the excavator and pivoted on a vertical axis, a steering frame secured to the tractor unit, a steering arm pivotally connected on a horizontal axis to one end of said steering frame, a threaded rotatable steering shaft carried by the frame of said excavator, a steering wheel for turning said steering shaft, a worm mounted to travel axially on said steering shaft, a housing pivotally mounted by said steering worm on an axis

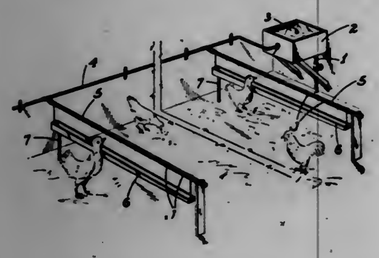
transverse to said steering shaft and said steering arm having a fork-shaped end for slidably receiving said housing and permitting angular movement of said steering arm with respect to said steering shaft.

1,918,565. SHOCK ABSORBER. EDWIN F. ROSSMAN, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 2, 1930. Serial No. 440,952. 6 Claims. (Cl. 188—88.)



1. A shock absorber comprising in combination, a casing presenting a cylinder; a piston in said cylinder forming a compression chamber at each end thereof, said piston having a recess in each end thereof, a duct leading from the inner end of each recess to the outer, peripheral surface of the piston and a channel in said surface of the piston cooperating with the wall of the cylinder to form a passage connecting the two ducts of the two piston recesses; an annular ridge in each piston recess surrounding the mouth of the duct leading thereinto; a disc valve yieldably urged into engagement with said annular ridge, said valve having a central channel; a stem-valve slidably supported in the central channel of the disc valve and having a head portion engaging the side of the disc valve which engages the annular ridge; a spring yieldably urging said stem-valve to maintain its head portion in engagement with the disc-valve; a slot in the outer surface of the stem-valve extending from the inner surface of the head portion a distance substantially greater than the thickness of the disc-valve; and means for reciprocating said piston.

1,918,566. POULTRY WATERER. JAMES ROBERT SADLER, Sacramento, Calif. Filed Mar. 21, 1932. Serial No. 600,079. 3 Claims. (Cl. 119—80.)



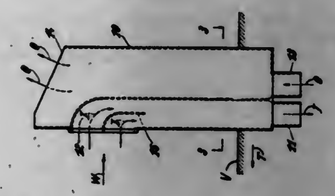
1. A poultry watering device comprising a supply tank having means associated therewith to maintain a supply of water therein at a given level, a horizontal pipe extending from said tank and connected thereto at a point only slightly below said water level, a plurality of horizontal lateral pipes connected to said first named pipe at intervals, and normally closed poultry-actuated drinking jets depending from said lateral pipes at intervals.

1,918,567. BOOSTER FOR LOOSE LEAF RING BOOKS. JOHN SCHADE, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a Corporation of Massachusetts. Filed May 5, 1931. Serial No. 535,126. 3 Claims. (Cl. 129—24.)



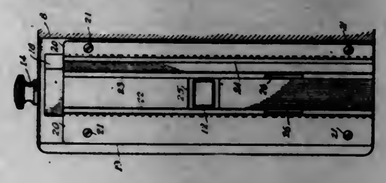
3. A loose leaf binder having a pair of articulated toggle plates having slots in their adjacent margins, a booster lever fulcrumed upon the plates and having a portion thereof engaging in the slots to prevent the displacement of the lever.

1,918,568. VENTILATING MEANS ON SHIPS OR AIRCRAFT. MAX SCHIRMER, Friedrichshafen, Bodensee, Germany, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Filed Dec. 22, 1930, Serial No. 503,984, and in Germany Dec. 23, 1929. 1 Claim. (Cl. 98—35.)



Ventilating means for ships, airships, and the like, comprising a tube of substantially streamline shaped cross-section, the outer end of the tube being open and in line with the remaining portion of the tube, said opening being formed by having the tube cut off at an inclined angle, a second tube inside of the first tube, the outer opening of the second tube penetrating through the sidewall of the first tube substantially at right angles thereto, the forward rounded portions of the sidewalls of the first and second tubes being integral with each other.

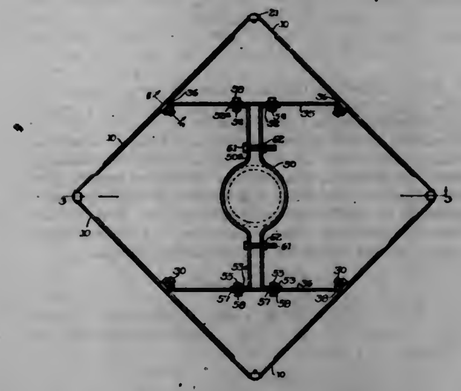
1,918,569. CINEMATOGRAPH FOR SOUND FILMS. ABRAHAM SHAPIRO, Chicago, Ill., assignor to Universal Stamping & Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 25, 1930. Serial No. 484,374. 3 Claims. (Cl. 88—17.)



2. In a cinematograph, the combination with a film having two substantially parallel rows of sprocket perforations located on respectively opposite sides of a picture record and having a sound record located outside of one of said rows, of a casing having a front wall provided with a film guideway comprising a plate having

several substantially parallel raised tracks offset from the plane of said plate, two of said tracks being adapted to engage the perforated portions of the film, the other of said tracks being adapted to engage the film edge adjacent the sound record, and a reciprocable feeding claw having a pair of prongs projecting through said two tracks for engagement with the film perforations.

1,918,570. DESIGNATING DEVICE. MORRIS SHERAS, Manistee, Mich. Filed Dec. 1, 1930. Serial No. 499,300. 8 Claims. (Cl. 40—145.)



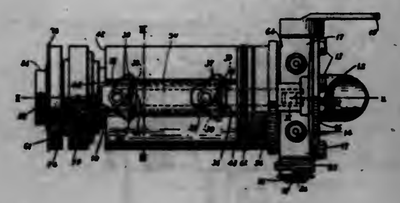
1. A street designating sign comprising a plurality of sign boards arranged in box-like formation, bracing means connecting the sides of said boards, and clamping means adjustably connected to said bracing means and adapted to embrace a central pole.

1,918,571. DESIGNATING DEVICE. MORRIS SHERAS, Manistee, Mich. Filed Dec. 1, 1930. Serial No. 499,301. 3 Claims. (Cl. 40—145.)



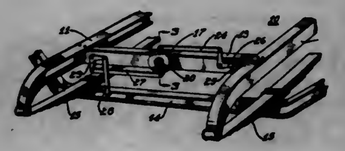
1. In a designating device, the combination with a plurality of sign boards, each formed of double-faced plate units, and a central pole projecting through said units, of connecting devices substantially U-shaped in cross section mounted around said pole for holding said sign board in fixed relation to each other, each of said devices having side members for engaging the outer faces of said plate units, end members for engaging the inner faces of said units and interlocking means complementary to such means on the other device.

1,918,572. BRAKE. ROBERT W. SNYDER and MEINDERT LAMMERTSE, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 21, 1930. Serial No. 490,188. 11 Claims. (Cl. 188—18.)



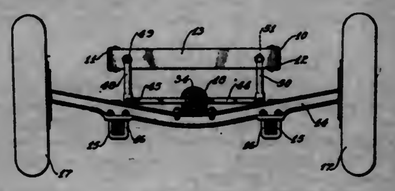
1. A wheel and brake assembly comprising a cylindrical hub, tire retaining flanges on said hub, said hub being adapted to directly support a tire, a split sleeve disposed within the hub, toggle links for expanding the sleeve into the braking engagement with the hub, and means for actuating the toggle links.

1,918,573. DAMPING DEVICE FOR MOTOR VEHICLES. MILTON TIBBETTS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 3, 1928. Serial No. 244,109. 13 Claims. (Cl. 267—11.)



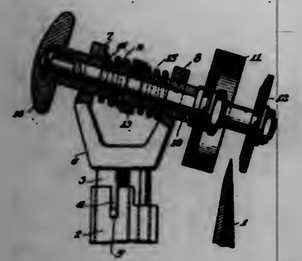
1. In a motor vehicle, in combination, frame and axle members and shock absorbing or axle control means comprising a plurality of frictionally related elements mounted on one of said members, one of the elements being operatively connected to the other of said members and another of the elements also being operatively connected to the other of said members at a point spaced longitudinally of the axle from the point of connection of the first element.

1,918,574. SHOCK ABSORBER. MILTON TIBBETTS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 5, 1928. Serial No. 244,652. 24 Claims. (Cl. 267—11.)



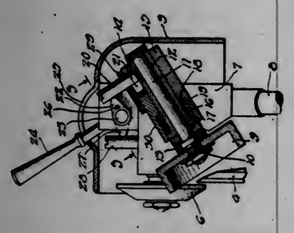
1. In a shock absorber, a casing and a plurality of pistons independently rotatable in parallel planes and in different directions in the casing.

1,918,575. SHARPENING DEVICE FOR SLICING MACHINE KNIVES. CORNELIS F. M. VAN BERKEL, Wassenaar, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed Jan. 12, 1928, Serial No. 246,333, and in Germany Jan. 28, 1927. 11 Claims. (Cl. 51—248.)



1. A sharpener for slicing machine knives, the combination with two spaced-apart grinders adapted to be located in spaced relation to opposite edges of the knife to be sharpened, means connecting said grinders for simultaneous bodily movement so that one of said grinders is compelled to move toward the knife while the other is moving away from the knife and vice versa, a support, means for mounting said grinders for movement relatively to said support into and out of engagement with the knife to be sharpened, an abutment, and springs between said support and said abutment for moving said grinders automatically into their spaced relation with the knife and out of engagement therewith.

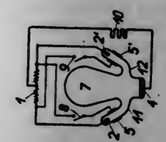
1,918,576. APPARATUS FOR SHARPENING THE KNIVES OF SLICING MACHINES. ADRIANUS VAN DUYN, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed Apr. 28, 1930, Serial No. 447,902, and in Great Britain May 31, 1929. 17 Claims. (Cl. 51—248.)



1. In sharpening apparatus, the combination with a grinding element, of means for moving said grinding element to operative position, mechanism comprising a cam for moving said grinding element to inoperative position, and a device in position to be engaged by said cam to effect locking of the grinding element in operative position.

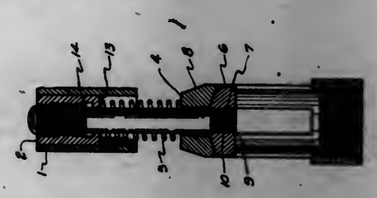
1,918,577. VAPOR RECTIFIER APPARATUS. STEFAN WIDMER, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden Switzerland, a Joint-Stock Company of Switzerland. Filed Oct. 15, 1927, Serial No. 226,491, and in Germany Oct. 18, 1926. 19 Claims. (Cl. 175—363.)

4. In a rectifier installation, a rectifier having a plurality of anodes, direct-current apparatus, connecting leads joining said rectifier and said apparatus, grids associated with the rectifier anodes, means responsive to current reversals within the rectifier for applying E. M. F. 's simultaneously to all the grids, the E. M. F. 's being opposed in phase to that of the respective anodes, a resistance connected in one of the aforesaid connecting leads, a high-speed switch adapted to short circuit the above resistance, means responsive to current reversals in said connecting lead for opening the high-speed switch, and reclosing means adapted to reclose the said switch when normal current flow is resumed.



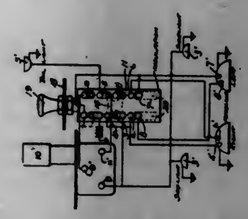
8. In a current-rectifying system, a metal-vapor rectifying apparatus having anodes and a cathode, a source of electromotive force, grids associated respectively with said anodes, switch means operable to provide a connection between said source upon the latter electrical potential opposed in phase to that of the respective anodes with which they are associated, and reverse-current apparatus responsive to conditions of reverse-current flow in said system and operable upon occurrence of such conditions to effect closing operation of said switch means.

1,918,578. VALVE PULLER. ROY C. WILLIAMS, Wayne, Ohio. Filed Feb. 29, 1932. Serial No. 595,855. 6 Claims. (294—86.)



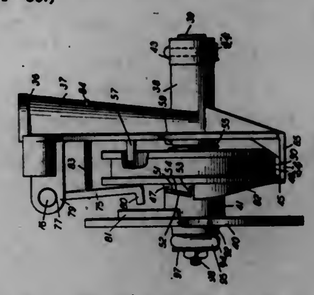
1. In combination, a standing valve cage, a traveling valve bottom, a threaded tap operable by rotation of the traveling valve bottom to connect the latter with the standing valve cage, and means to relieve the threads of the weight of the rods when imposed upon the traveling valve bottom, as the latter is rotated.

1,918,579. AUTOMOBILE LIGHTING. ROBERT K. WINNING, Wauwatosa, Wis., assignor to Clum Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 18, 1933. Serial No. 661,475. 7 Claims. (Cl. 171—97.)



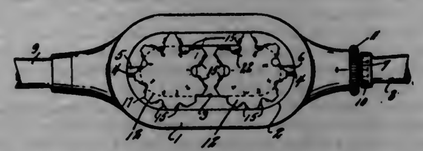
7. An automobile lighting circuit including the combination with right and left headlamps having bright and dim circuits, a dimming switch including output terminals adapted for connection alternatively to energize the bright or the dim circuit of a given headlamp, a main lighting switch controlling the operation of the headlamps and including contacts and circuit connections for determining the headlamp upon which the dimming switch is effective, said main lighting switch also including contacts and connections such that in one lighting switch position the bright circuit of the left hand headlamp is directly energized, and the dimming switch is supplied with current for the alternative energization of the bright or dim circuits of the right hand headlamp, and in another position of said main lighting switch the dim circuit of the right hand headlamp is directly energized and the dimming switch supplied with current and connected to the left hand headlamp for the alternative energization of its bright and dim circuits, together with a pair of side lights and circuit connections whereby said side lights are energized in the dimming position of the dimming switch irrespective of the headlamp affected thereby.

1,918,580. INTERMITTENT CONTROL DEVICE. WAYNE H. WORTHINGTON, Battle Creek, Mich., and LESTER G. DUBBEE, Mount Washington, Mo., assignors by mesne assignments, to Gleaner Harvester Corporation, Independence, Mo., a Corporation of Delaware. Filed Apr. 11, 1930. Serial No. 443,492. 11 Claims. (Cl. 74—55.)
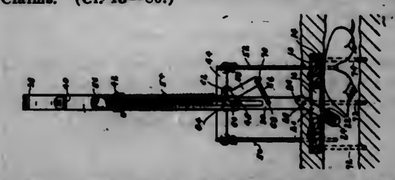


1. In a device of the character described, a support, a rotative member associated with the support, means on the support for limiting rotation of the rotative member, an actuator for rotating said rotative member, means mounting the actuator on the support, means on the actuator for rendering said limiting means effective, and clutch means operably connecting the actuator with the rotative member.

1,918,581. THREAD CUTTING TOOL. LOUIS A. ALEXANDER, Toledo, Ohio. Filed Sept. 15, 1930. Serial No. 481,833. 2 Claims. (Cl. 10—115.)



1. A tool-stock having an opening, a pair of complementary die blocks in the opening and movable toward each other in the plane of the opening into released position for rotation in said plane, said stock having an inwardly extending endless rib about said opening, said blocks each having an annular groove in the plane of the rib to register therewith, said rib and grooves cooperating to prevent the blocks from wobbling relatively to the stock, there being keying means between said blocks and stock effective in shifting of the blocks away from each other for holding the blocks against rotation as to the stock.

1,918,582. ANIMAL TRAP. FRANK ALVAU, Redondo, Wash. Filed Apr. 19, 1932. Serial No. 606,188. 5 Claims. (Cl. 43—80.)



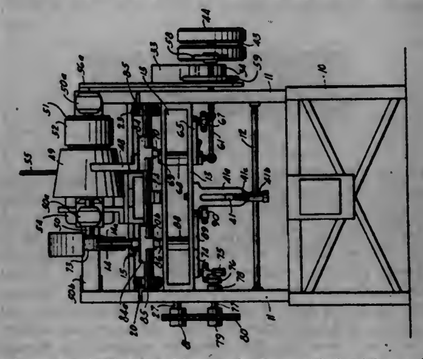
1. The combination in a victim closed trap having a slotted base block, a rigid upright main frame, and a release trigger pivoted in the frame, of an exterior slide frame and guiding means therefor on the main frame, a pair of arms rigid with the slide frame, a pair of looped-jaws suspended from said arms, a spring anchored to the main frame, a crank journaled in the main frame, a slotted crank arm suspended from the spring, a supporting pin on the slide frame for the slotted arm, and co-acting means on the crank arm and trigger for setting the trap.

1,918,583. FISHING ROD. PAUL S. BEAR, Dowagiac, Mich., assignor to James Heddon's Sons, Dowagiac, Mich., a Corporation of Michigan. Filed Apr. 8, 1932. Serial No. 603,933. 1 Claim. (Cl. 287—119.)



A jointed fishing rod comprising one rod section to which is applied a fitting in the form of a projecting ferrule providing a socket, and a second rod section to which is applied a fitting in the form of a slide adapted for a relatively frictionless fit within the socket, a convexed end on the slide and a concaved shoe at the bottom of the socket adapted to center the slide when positioned therewithin, cooperating means on the two fittings interengaging when the slide is advanced within the socket adapted to maintain the associated rod sections in a definite rotative relationship, a rotatable collar slidable upon one fitting and engageable with the other fitting to force one longitudinally of the other, and retain the convexed end of the slide in positive engagement with the shoe, and a stop for limiting endwise movement of the collar in a direction which forces the slide to the bottom of the socket when the collar is rotatively advanced.

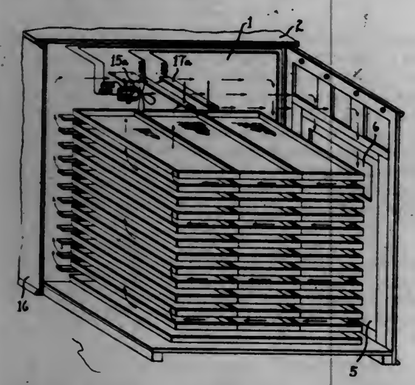
1,918,584. GIN RIB GRINDING MACHINE. JOSEPH BEHLE, Dallas, Tex., assignor to The Murray Company, Dallas, Tex., a Corporation of Texas. Filed June 29, 1929. Serial No. 374,756. 17 Claims. (Cl. 51—100.)



2. In a grinding machine, a shaft provided with a grinding wheel and a guide roller, a carriage provided with a

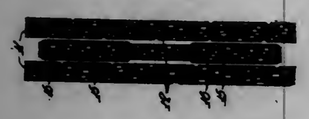
work holder and form alined with said roller, means for reciprocating said carriage beneath the wheel, and means for shifting said form axially of the roller to elevate the grinding wheel.

1,918,585. METHOD AND APPARATUS FOR INCUBATING AND HATCHING EGGS. LEO F. BIGGINS, Adrian, Mich. Filed May 31, 1927, Serial No. 195,180. Renewed July 15, 1929. 2 Claims. (Cl. 119—37.)



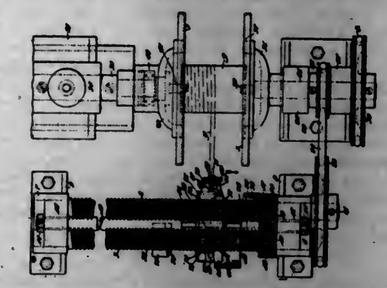
1. In an incubator, a housing, a stack of egg trays within the housing disposed in spaced relation one above the other, the ends and top and bottom of the stack being spaced from the housing, there being free space between the uppermost tray and the top of the housing, and there being horizontal openings at each end of the stack between each pair of trays and each opening having a depth substantially equal to the depth of the space between the trays and means located in said free space between the uppermost tray and the top of the housing to pass air horizontally above the stack from one end to the other and downwardly along the last end of the stack, then horizontally from the last said end to the first said end in currents entering and leaving the space between each two trays in a uniform continuous stream substantially as deep as the space between the trays and in such manner that the volume of air at any given point at one instant between the adjacent trays is the same as the volume passing the same point at any other instant, and to finally pass the air upwardly along the first end to complete the circuit.

1,918,586. INSULATOR. ALEXANDER P. BLOOD, New York, N. Y. Filed Feb. 18, 1929. Serial No. 340,782. 3 Claims. (Cl. 154—2.6.)



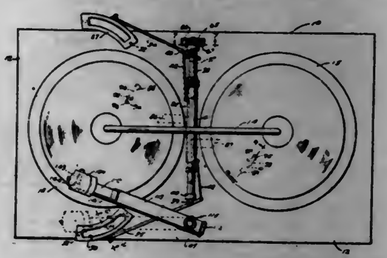
1. The process of making an electrical insulation sheet, which includes superposing mica splittings of varying sizes, each materially smaller than said sheet and wetted with a volatile liquid, distributing said splittings to make the sheet of substantially uniform thickness, rigidly and permanently clamping said wetted splittings between opposed plates under pressure distributed throughout substantially the entire area of the opposite surfaces of the sheet to clamp said splittings together and prevent shifting thereof, and removing the liquid by evaporation whereby said splittings are permanently held in distributed relationship solely by said clamping plates.

1,918,587. TRAVERSE-MOTION FOR WINDING MACHINES AND THE LIKE. JULIAN K. BRYANT, Dracut, Mass., assignor to T. C. Entwistle Company, Lowell, Mass., a Corporation of Massachusetts. Filed Dec. 3, 1930. Serial No. 499,776. 3 Claims. (Cl. 74—14.)



1. A traverse-motion comprising a rotatable grooved shaft, followers having threads of opposite hand engageable alternately with the grooves in the shaft to traverse them in opposite directions longitudinally thereof, means engageable with each of the followers at the end of its traverse to disengage it from the grooves in the shaft, and means operative upon the disengagement of one follower from the shaft to engage the opposite follower therewith to reverse the direction of traverse.

1,918,588. AUTOMATIC SOUND REPRODUCING APPARATUS. ROY B. BRYANT, Dallas, Tex. Filed Mar. 16, 1931. Serial No. 522,926. 11 Claims. (Cl. 274—10.)

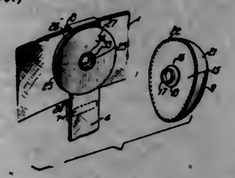


7. In an automatic sound reproducing apparatus, a pair of rotatable turntables, a plurality of records supported on the turntables, a rocking element intermediate the turntables, spring tensioned suction members supported by the rocking element for engaging the top records on the turntables, means for alternately rocking the rocking element to engage the suction members under pressure with the top record on one turntable for securing the record to said members and to swing the members and their engaged record in an arc to the opposite turntable where the record is released by the suction members and deposited in an inverted position on the latter turntable, a sound reproducer mounted intermediate the turntables for engaging the top record on either turntable, and means for shifting the reproducer to engage and reproduce the top record on first one turntable and then on the other turntable.

1,918,589. PROCESS OF PRODUCING A FUMIGATING AGENT. BENJAMIN RUBIN BURGESS, Glendale, Calif. Filed Mar. 8, 1932. Serial No. 597,637. 2 Claims. (Cl. 167—40.)

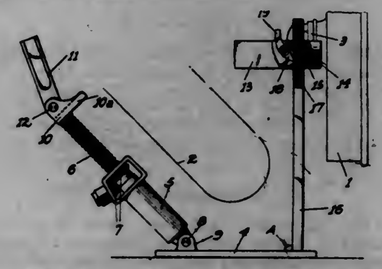
2. The process of manufacturing klinkered slags for fumigating purposes, which consists in mixing together, ground rubber, pulverized charcoal and powdered sulphur, placing the mixture on an unperforated portion of a burning rack, igniting the mixture and converting to a molten lava state, allowing the same to run over a perforated portion of said burning rack, whereby it is caused to separate into small particles and to fall through said perforations into a vessel containing water functioning as a cooling agent to cool said separate particles to form said klinkered slags.

1,918,590. TRUSS. FRANZ S. BURTON, Kansas City, Mo. Filed Nov. 23, 1928. Serial No. 321,287. 4 Claims. (Cl. 128—100.)



1. A truss including a support, a non-circular pad having a plane inner face and a stud projecting from said face, a backing member mounted on the support and comprising a disk having diameter substantially equal to the longest dimension of the inner face of said pad, and a socket mounted centrally in said backing member to receive said stud for rotatively mounting the pad on the backing member, and having a rim projecting above the surface of said disk to engage said pad to permit portions of the inner face of the mounted pad to engage the disk under pressures consequent on use of the truss.

1,918,591. AUTOMOBILE JACK. ROBERT H. DART, Sacramento, Calif. Filed Feb. 1, 1928. Serial No. 251,116. 5 Claims. (Cl. 254—134.)

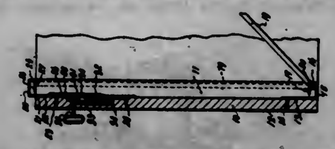


1. A wheel jack comprising a ground bearing plate to project outwardly of a wheel, a barrel projecting upwardly from the plate, a pivot connection between the barrel and plate disposed longitudinally of the plane of the wheel, a screw stem projecting from the upper end of the barrel, a lateral extension structure projecting toward the wheel from the upper end of the stem, a cradle formed at the outer end of the structure for engagement with the wheel-hub, and a vertical bar slidably mounted in connection with the cradle to one side of the same for detachable engagement with the plate.

1,918,592. MAGAZINE BINDER. LEON DAVIO, West Springfield, Mass. Filed June 22, 1932. Serial No. 618,635. 9 Claims. (Cl. 129—38.)

3. A binder for magazines and the like comprising a back piece, a magazine retaining bar, means carried by the back piece for holding the bar, a spring tending to shift said means into bar-releasing position, and a key releasable latch holding said member against outward movement.

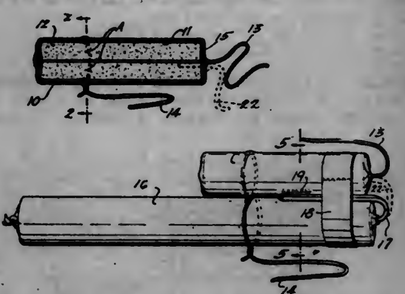
6. A binder for magazines and the like comprising a back piece having a recess, a pair of end plates carried by the back piece, at least one of the end plates being movable, a magazine retaining bar held in place by the end plates, lock mechanism in the recess controlling the motion of the movable end plate, a magazine cover attached to the back piece, and a member covering the recess to prevent contact of the back of the magazine with the lock mechanism.



1,918,593. LUBRICANT. HERBERT H. DOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Dec. 24, 1928. Serial No. 328,819. 6 Claims. (Cl. 87—9.)

1. A lubricant comprising cylinder oil with which has been admixed diphenyl oxide.

1,918,594. ELECTRICALLY IGNITED TORPEDO. RALPH H. FLADGER, Dallas, Tex., assignor of one-half to The Shield Company, Inc., Fort Worth, Tex., a Corporation of Texas. Filed May 6, 1932. Serial No. 609,653. 9 Claims. (Cl. 102—21.)



1. In a new article of manufacture, an electrically ignited torpedo comprising a closed shell containing a charge of easily ignitible or explosive material, an electrical conductor extending internally of the shell and within the charge, and a second electrical conductor encircling the shell and the first named conductor to form a spark gap between said conductors and within said charge.

1,918,595. CHEESE PRODUCT AND PROCESS OF MAKING THE SAME. FELIX M. FREDERIKSEN, Milwaukee, Wis., assignor, by mesne assignments, to Premier-Pabst Corporation, a Corporation of Delaware. Filed May 17, 1930. Serial No. 453,418. 4 Claims. (Cl. 99—11.)

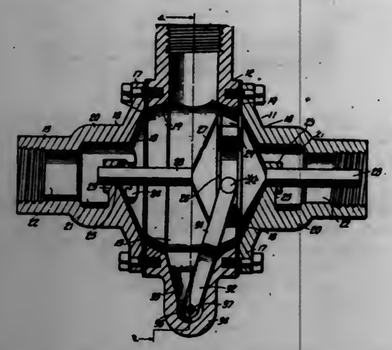
1. A new food product consisting of cured cheese, added whey concentrate and semi-soluble colloidal milk casein, the cured cheese being substantially free of putrefactive bacteria and the lactose of the whey and milk casein being fixed against lactic acid fermentation.

4. The process of making a food product which comprises neutralizing whey, concentrating the neutralized whey to form a concentrate of pasty consistency when cold, mixing the concentrate with semi-soluble colloidal milk casein and ground cheese, and heating the mixture to a pasteurizing temperature.

1,918,596. SWITCH VALVE. ELDRIDGE B. GILL, Oklahoma City, Okla. Filed Nov. 11, 1929. Serial No. 406,301. 5 Claims. (Cl. 251—22.)

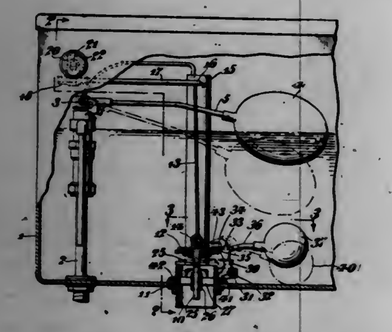
2. A valve of the character described, including a housing having an interior chamber, an inlet to the chamber

and opposed outlets leading from the chamber, diaphragms at the ends of the chamber including valve seats and having flow ports and guide openings, a valve in said chamber having heads on its opposite sides co-



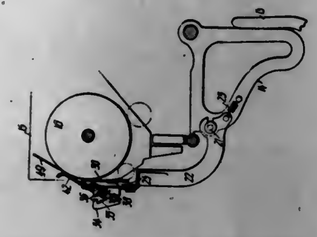
operative with said seats, and an intermediate circumferential guide, pins on said heads slidable in the guide openings, a yoke co-operative with said circumferential guide, and means for actuating the yoke from the exterior of the guide to shift the valve.

1,918,597. VALVE STRUCTURE FOR FLUSH TANKS. WILLIAM U. GRIFFITHS, Philadelphia, Pa. Filed June 11, 1929. Serial No. 370,038. 1 Claim. (Cl. 4—53.)



A valve structure of the character described which is adapted to open and close a port leading from a container for controlling the outflow of a liquid from said container, which structure comprises a movable valve element, a seat for the said valve element upon which the said element rests when it is in closed position, means for moving the said movable valve element from closed into open position, a trigger pivoted at its lower end, the said trigger extending in a direction in general parallel relation to the axis of the said valve structure and the said trigger having a float connected therewith and located in the said container which operates when a liquid is in the container to cause the said trigger to tend to move about its pivot in a direction toward the edge of the said movable valve element, and the said trigger having means for engaging the said movable valve element for holding the same in open position after it has been once opened, which means is adapted to be automatically disengaged from the said movable valve element to permit closing movement thereof when the liquid reaches a certain point in its discharge, and the said trigger also having means located above the said movable valve element for limiting the opening movement of the latter, means engaging said trigger near its upper end for guiding it in its pivotal movements, and means for supporting and guiding the said movable valve element in its opening and closing movements.

1,918,598. TYPEWRITING MACHINE. WILLIAM F. HELMOND, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed June 15, 1928. Serial No. 285,599. 17 Claims. (Cl. 197—135.)

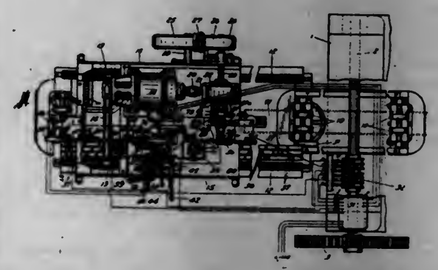


12. The combination with a platen, of a work-holder, a mount upon which said work-holder is pivotally supported, and from which it extends upwardly to press back the work, a spring connected to said work-holder, and means provided upon said mount to form a yieldable obstacle in the path of said work-holder, said spring anchored at its lower end upon said obstacle and tending to cause the obstacle to restrain said work-holder from mounting and passing said obstacle, and also effective to hold said work-holder back against the work.

1,918,599. ARTIFICIAL DRYING OIL. GEORGE W. HERBEIN, San Francisco, Calif. Filed June 5, 1929. Serial No. 368,737. 7 Claims. (Cl. 134—56.)

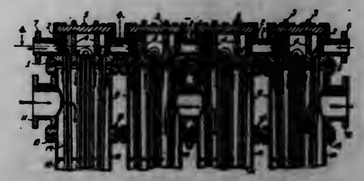
1. The method of making an artificial drying oil which comprises reacting rosin, animal fat, mineral oil and a metal oxide together at a temperature between 300 and 550° Fahrenheit.

1,918,600. SPACING MACHINE. HENRY E. HINTZ and GEORGE P. KLINE, Moline, Ill., assignors to Williams, White & Co., Moline, Ill., a Corporation of Illinois. Filed Apr. 8, 1929. Serial No. 353,461. 23 Claims. (Cl. 164—116.)



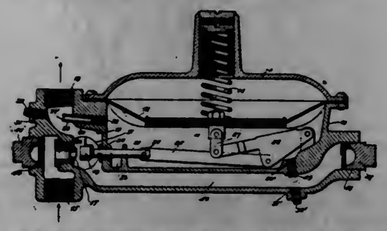
1. In a spacing machine, a carriage, motive means for advancing and returning said carriage, stops for said carriage, slidable means engaging the stops for automatically stopping said carriage advancing motive means, and means to automatically return the carriage to the stops with the stop engaging means in engagement therewith.

1,918,601. HEAT EXCHANGER. GEORGE T. JACOCKS, STANLEY J. CHUTE, and JAMES B. FORBES, New York, N. Y., assignors to Alco Products, Incorporated, New York, N. Y., a Corporation of Delaware. Filed Apr. 22, 1932. Serial No. 606,852. 9 Claims. (Cl. 257—42.)



1. A high pressure, high temperature heat exchanger adapted for use in the pyrolytic processing of hydrocarbon oils, comprising in combination a flange member, a plurality of sub-headers integral therewith, tube bundles communicating with the respective sub-headers, a floating header communicating with each tube bundle, separate shells surrounding each tube bundle and removably secured to said flange member, communicating means between the sub-headers, communicating means between the shells, a liquid inlet to one sub-header, a liquid outlet from one sub-header, whereby liquid is adapted to flow through said respective sub-headers, tube bundles and floating headers in succession, a vapor inlet to one shell, a vapor outlet from one shell whereby vapor is adapted to flow through said shells in succession in heat exchange relationship with said liquid.

1,918,602. HOUSE SERVICE GAS REGULATOR. ROY E. JOYCE, East Los Angeles, Calif. Filed Feb. 28, 1931. Serial No. 519,156. 3 Claims. (Cl. 50—26.)

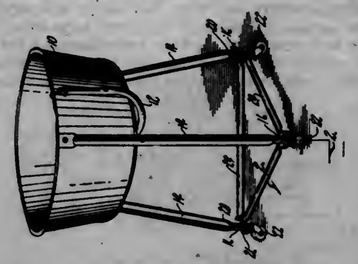


1. In a gas pressure regulator having a flow passage and a valve therefor; operating means for said valve embodying a suction passage, said suction passage having a tubular suction-creating terminal which projects in the direction of its length from one longitudinal side of the flow passage toward the opposite side of said flow passage, and interengaged screw threads on said tubular terminal and the regulator part which carries it, whereby said terminal may be adjusted transversely of said flow passage to effect projection of said terminal to any desired extent across said flow passage to vary the suction which it will create, said tubular terminal having an open end disposed in a plane at substantially six degrees to the line of flow through said flow passage.

1,918,603. PROCESS OF MAKING SOAP AND GLYCERINE. MARTIN HILL ITTNER, Jersey City, N. J., assignor to Colgate-Palmolive-Peet Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 19, 1931. Serial No. 517,098. 22 Claims. (Cl. 87—16.)

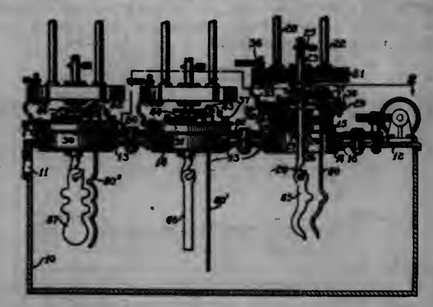
1. The process of making soap and glycerine which consists in heating a mixture of fat and a base to a temperature in excess of the melting point of the resulting anhydrous soap and thoroughly agitating the mixture in an atmosphere free of air while intimately contacting the mixture with a stream of water vapor.

1,918,604. TUB SUPPORT. WILLIAM P. JOHNSON, Des Moines, Iowa. Filed May 6, 1931. Serial No. 535,403. 2 Claims. (Cl. 280—50.)



1. In a support of the type including a plurality of legs, each leg formed with a socketed opening at its lower end, a caster socket member adapted to be mounted in said socketed opening and arranged to receive a caster stem, a leg brace formed of a strip of metal formed substantially concavo-convex in section and flattened at each end and having at each flattened end an opening through which a socket member is inserted before mounting in its socketed opening, for thereby conjunctively assembling the socket member and brace to the leg.

1,918,605. CHROMIUM PLATING. ELMER M. JONES, Detroit, Mich., assignor to Parker Rust-Proof Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 9, 1928. Serial No. 245,594. 13 Claims. (Cl. 204—1.)



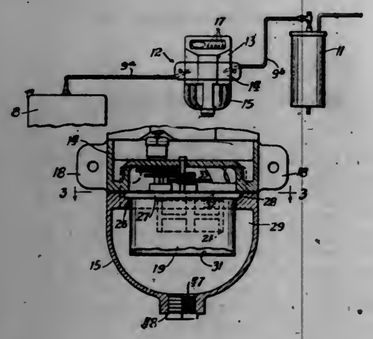
1. The process of electro-plating with an electrolyte containing chromium combined in negative radicals, which comprises immersing an article to be plated in the electrolyte, passing an electric current through the electrolyte, and limiting the travel of the negative radicals away from the article by changing the direction of the effective anode with respect to the position of said radicals before said radicals have travelled more than a limited distance from the anode.

8. The process of electro-plating an article having a surface other than a surface of rotation, which comprises immersing the article in an electrolyte and employing it as a cathode, introducing an anode into the electrolyte, revolving the anode about the article, and synchronously giving the anode a movement other than that of revolution and one which maintains the surface of the anode at substantially constant distance from the surface of the article.

1,918,606. FUEL METERING APPARATUS. JARRETT T. LAKE, Wilmette, Ill., assignor to Economy Electric Devices Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 22, 1930. Serial No. 422,540. 10 Claims. (Cl. 73—167.)

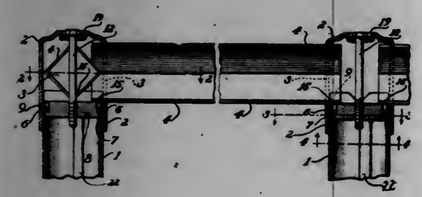
1. In a liquid fuel supply system, the combination with a supply tank, a fuel receiving device, and a fuel feed

conduit extending between said supply tank and said fuel receiving device, of a flow meter interposed in said fuel feed conduit, and comprising a separating chamber, a fuel measuring chamber receiving fuel from said separating chamber, means providing a fuel inlet passageway opening into said separating chamber, baffle means in the upper portion of said separating chamber and cooperating with said inlet passageway for directing the entering fuel and



any air into the upper portion of said separating chamber to cause any entrained air to separate from the fuel and accumulate in the upper portion of said separating chamber, there being an outlet passageway in communication with the discharge end of said measuring chamber, means providing an air by-pass port extending from said separating chamber to said outlet passageway, and a valve controlling said air by-pass port.

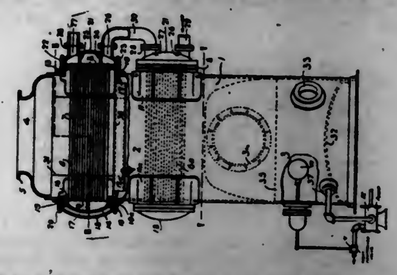
1,918,607. FENCE CONSTRUCTION. FRANK C. LINDH, Chicago, Ill. Filed May 22, 1931. Serial No. 539,244. 4 Claims. (Cl. 287—54.)



1. A fence post construction comprising a tubular post, a clamping member secured adjacent the upper end of the post having a lower jaw portion for engagement with the outside of a horizontal frame member, a second clamping member having an upper jaw portion for engagement with said horizontal member and a skirt portion surrounding the upper end of the tubular post, and means for drawing said clamping members together to grip the horizontal member.

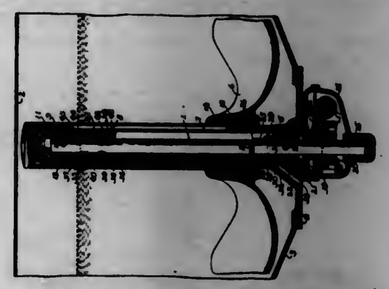
1,918,608. APPARATUS FOR CONDENSING HYDROCARBONS. JOHN C. MAHONEY, Elizabeth, N. J., assignor to Alco Products Incorporated, New York, N. Y., a Corporation of Delaware. Filed Mar. 4, 1931. Serial No. 520,073. 3 Claims. (Cl. 257—230.)

2. An apparatus for condensing hydrocarbon vapor and the like comprising a vertical substantially cylindrical shell, said shell having an inlet opening in its upper portion; a cooling unit transversely disposed within the upper portion of the shell, the lower portion of said shell embodying a condensate receiving zone; a baffle plate disposed within said receiving zone, said shell having an outlet port for liquid in the receiving zone below the baffle plate and near the bottom of the zone and an outlet



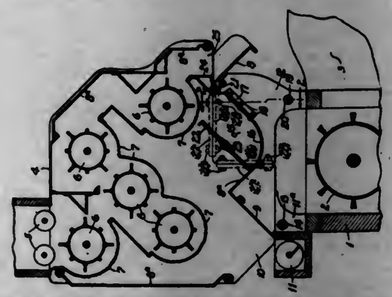
port for vapor in the receiving zone below and adjacent the baffle plate; and a liquid level regulator for said receiving zone.

1,918,609. WATER SHEDDING DEVICE FOR WASHING MACHINES AND THE LIKE. JOHN MIKULASEK, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a Corporation of Delaware. Filed Mar. 19, 1930. Serial No. 437,248. 9 Claims. (Cl. 259—101.)



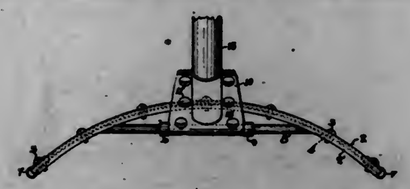
1. In a washing machine provided with an agitator, a tubular member mounted in the tub of said machine and having a passage communicating with the exterior thereof, a drive shaft for said agitator, and means associated with said shaft and member for deflecting water from said member through said passage.

1,918,610. COTTON TREATING MACHINE. JOHN E. MITCHELL, Dallas, Tex. Filed Feb. 15, 1932. Serial No. 592,866. 7 Claims. (Cl. 19—67.)



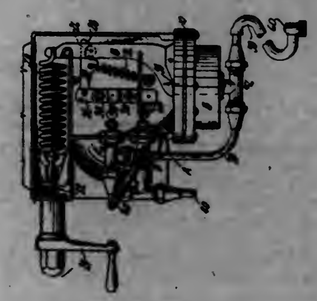
1. In a machine for treating cotton designed to be positioned on top of a gin stand, a removable section forming a support for the machine and having parts of the operating elements of the machine mounted therein, whereby when said section is removed a space will be provided to permit access to the interior of the gin.

1,918,611. SQUEEGEE. JAMES M. OBERTI, San Francisco, Calif. Filed Nov. 13, 1931. Serial No. 574,825. 4 Claims. (Cl. 15—245.)



1. A squeegee comprising a curved frame, a rubber strip secured to the frame and projecting beneath the lower edge thereof, a bar located within the curvature of said frame and being secured at its ends to the frame, a handle pivotally attached to the bar, and means carried by the bar for preventing the lateral displacement of the handle on the bar.

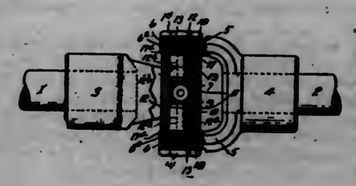
1,918,612. SAFETY DEVICE FOR TIRE INFLATERS. ALBERT PENN, Des Moines, Iowa, assignor to Penn Electric Switch Co., Des Moines, Iowa, a Corporation of Iowa. Filed Jan. 19, 1931. Serial No. 509,618. 8 Claims. (Cl. 50—8.)



1. The combination with an air service line having a valve controlled portion and means for discharging air in successive charges when said valve is opened comprising a control valve in the air service line, a lever, means for subjecting the lever to pressure in the air service line between said valve controlled portion and said control valve and to the pressure from the outlet side of said control valve and an independent mechanism actuated from the lever for actuating said control valve, of a safety valve in said air service line and a direct connection between said lever and said safety valve for positively actuating the same to closed position in case of said lever being subjected to excessive pressure.

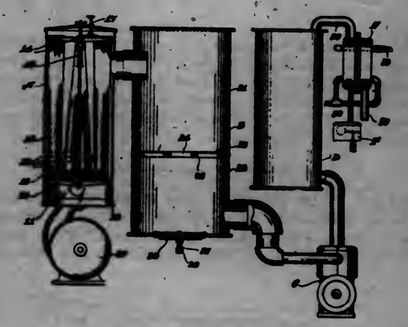
1,918,613. UNIVERSAL JOINT. FREDERICK W. PETERS, Cleveland, Ohio, assignor to The Almetal Universal Joint Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 7, 1928. Serial No. 283,506. 6 Claims. (Cl. 64—102.)

1. In a universal joint, the combination of a driving and a driven member each having a pair of arms provided each adjacent to its outer end with a threaded bore, a connecting member having a central lubricant containing chamber provided with a connection for supplying lubricant thereto and having bores extending radially outwardly therefrom and adapted to register with the bores in said arms, said connecting member being provided with an annular recess at the outer end of and surrounding each bore thereof, a packing ring in each said recess, and trunnion pins threaded through the bores in said arms and into the corresponding bores in said connecting member, the inner ends of said pins being spaced apart and each of said pins having a bore extending outwardly from the inner end thereof and communicating with the chamber in said con-



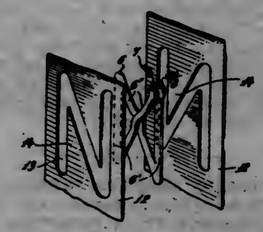
necting member and also having a port extending laterally from such bore through the side wall of such pin and being located between the said packing ring and the inner end of the bore of said connecting member in which the said pin is mounted.

1,918,614. SYSTEM FOR CLEANING, COMPRESSING, AND DRYING AIR. RICHARD RUEMELIN, Milwaukee, Wis. Filed Nov. 21, 1929. Serial No. 408,751. 9 Claims. (Cl. 183—84.)



8. An apparatus for cleaning and compressing air comprising, an air cleaner, an air compressor connected therewith, and an unloading oil and pressure relief interposed between said cleaner and said compressor to prevent oil and air unloading from said compressor from contacting said cleaner.

1,918,615. SIGN. GEORGE T. SCOTT, Montclair, N. J., assignor to Fred Hotchner, Los Angeles, Calif. Filed Apr. 22, 1930. Serial No. 446,241. 17 Claims. (Cl. 40—130.)

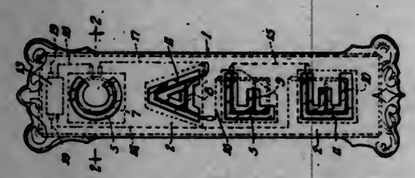


1. A sign of the class described including a translucid tube in shape forming an outline for a character, part of said tube being exposed and readable the same from opposite directions, means to obscure one or more other parts

of said tube on one side to show a character on the corresponding side, and means to correspondingly obscure one or more parts of the tube on the other side to show a similar character on the last named side, whereby the exposed portions of the tube will read the same from opposite directions, an illuminating gas within the tube, and means to illuminate said tube for illuminating the character.

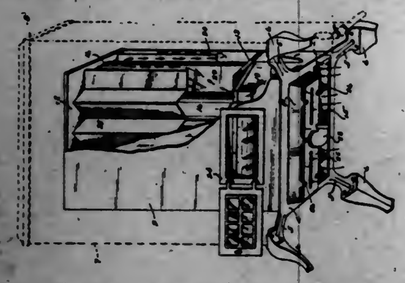
17. In an electric sign, a frame having an open space in which is supported a luminous tube visible from both sides thereof and in the form of a display pattern formed by the superposition of two characters upon each other in reverse, and light obscuring shields secured to said tube to obscure those parts of said tube not conforming to the characters which are displayed in the two directions by the portions remaining unobscured.

1,918,616. DOUBLE FACED SIGN. FRED HOTCHNER, Los Angeles, Calif. Filed Feb. 24, 1931. Serial No. 517,728. 20 Claims. (Cl. 40—133.)



18. A device for displaying an unsymmetrical character in opposite directions, comprising luminous tubing formed to represent said character from two opposing viewpoints together with means on opposite sides of said tubing to obscure those portions of said luminous tubing not needed to display said character.

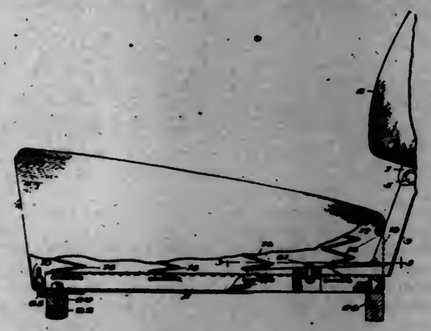
1,918,617. GAS HEATER. LEO C. SMITH, Minneapolis, Minn., assignor to Smith System Heating Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Aug. 8, 1932. Serial No. 627,839. 4 Claims. (Cl. 126—90.)



1. In a heater, a casing for products of combustion, air-circulating tubes within said casing, and corrugated baffles arranged in staggered relation within said casing with the corrugations thereof paralleling said tubes and extending substantially tangentially to sides of said tubes, whereby to provide a tortuous channel for the products of combustion through which the tubes extend in heat radiating relation to said baffles.

1,918,618. CUSHION SEAT FOR VEHICLES. MAURICE STURNITZ, Pittsburgh, Pa., assignor to Fort Pitt Bedding Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 12, 1932. Serial No. 610,955. 8 Claims. (Cl. 155—184.)

8. A folding seat and back for vehicles comprising an upholstered metal seat border frame carrying two metal spring supporting slats, said slats being arranged longitudinally of said frame and the rear end of each slat being adapted for attachment to a back supporting leg, the seat upholstery facing extending over the rear end of the seat and being provided with slots adjacent to the

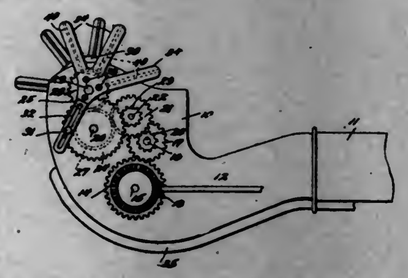


rear portion of each of said slats, back supporting legs extending through said slots and secured to the rear ends of said slats and a back pivotally secured to the upper end of said legs.

1,918,619. PROCESS OF PRODUCING MICROSCOPIC SPECIMENS FOR THE OBSERVATION OF THE SURFACES OF SUBSTANCES. JUNICHI SUZUKI, Kyoto-Fu, Japan, assignor to Gunze Seishi Kabushiki Kwaisha, Kyoto-Fu, Japan. Filed Dec. 26, 1930. Serial No. 505,002, and in Japan Jan. 25, 1930. 1 Claim. (Cl. 88—40.)

Process of manufacturing film facsimiles of objects for microscopic observations, without use of fixative materials, which process consists in first applying a transparent, plastic solution over the surface of the object to be observed, said solution being of the amyl-acetate celluloid type having the tendency of adhering to said surface without deformation when solidifying; then causing said plastic solution to solidify by volatilizing the solvents; thereupon removing the formed thin strips of film, thus producing an accurate negative facsimile of said surface.

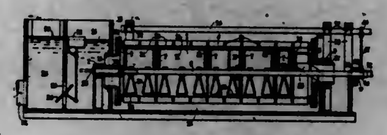
1,918,620. PICKER HEAD. EDWARD E. TALIAFERRO, Jackson, Tenn. Filed June 2, 1930. Serial No. 458,978. 24 Claims. (Cl. 56—32.)



1. In a cotton picker, a head, mechanical means for drawing the cotton into said head, and mechanical means for rotating the cotton boll.

1,918,621. SEPARATING APPARATUS. CARL BUSCH THORNE, Hawkesbury, Ontario, Canada. Filed Dec. 7, 1931. Serial No. 579,536. 7 Claims. (Cl. 92—35.)

1. Apparatus for separately recovering solid particles from suspension in a liquid comprising a horizontal hollow shaft, a cylindrical wire screen coaxial with said shaft, agitators carried by said shaft and projecting towards the bottom of said screen, spray pipes carried by said shaft and projecting towards the top of said screen, a tank having a weir for maintaining a substantially con-



stant level of liquid over the lower portion of said screen, a flow box for introducing solid-containing liquid into one end of said screen, and means for discharging the larger particles which remain in said screen.

1,918,622. PROCESS OF PREPARING IODIDES. JOHANNES HENDRIK VAN DER MEULEN, Arnhem, Netherlands. Filed Oct. 13, 1930, Serial No. 488,546, and in Germany Oct. 14, 1929. 1 Claim. (Cl. 23—89.)

Process of preparing alkali or alkaline earth iodides from iodide iodate mixtures or by the action of iodine upon alkali metal oxides, alkaline-earth metal carbonates, alkali-metal bicarbonates, and alkali metal hydroxides in the presence of water and an organic reducing agent; which comprises adding a reducing agent selected from the group consisting of formaldehyde, formic acid, oxalic acid, and sodium formate, and heating the reaction mixture.

1,918,623. MULTICOLORED PICTURES. BRUNO WENDT, Dessau in Anhalt, Germany, assignor to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed June 2, 1930, Serial No. 459,016, and in Germany June 4, 1929. 11 Claims. (Cl. 95—2.)

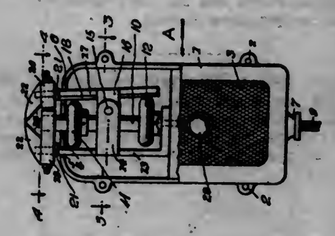
2. The process of preparing multi-colored photographic pictures which comprises impregnating supports with esters of leuco compounds of vat dyestuffs, exposing said impregnated supports behind color part negatives, fixing the positives thus obtained by washing out the unchanged leuco ester and uniting the same so as to form a multi-color picture.

1,918,624. PROCESS FOR THE PRODUCTION OF CHLORINATED HYDROCARBONS. THOMAS SHERLOCK WHEELER and JOHN MASON, Northwich, England, assignors to Imperial Chemical Industries Limited, a Corporation of Great Britain. Filed Sept. 29, 1930, Serial No. 485,296, and in Great Britain Oct. 24, 1929. 6 Claims. (Cl. 260—166.)

1. The process of producing chlorinated derivatives of aliphatic hydrocarbons containing at least one methylene group which comprises passing through a reaction zone a reactive mixture comprising a chlorinating agent and a chlorinatible substance of the class consisting of aliphatic hydrocarbons and partially chlorinated hydrocarbons capable of producing said chlorinated derivatives, at a temperature of at least 600° C., and a space velocity of at least 100 reciprocal minutes.

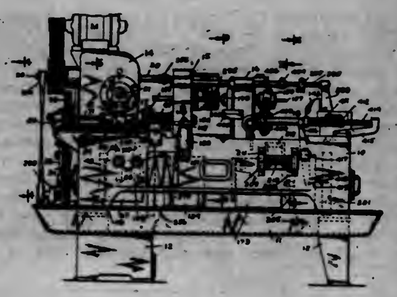
1,918,625. ELECTRICALLY OPERATED SAFETY RAZOR. DAVIS B. WILLS, Washington, D. C. Filed July 15, 1932. Serial No. 622,755. 7 Claims. (Cl. 30—12.)

7. In an electrically operated razor, a casing, arms extending longitudinally in said casing and projecting from the front thereof and carrying blades, one arm being pivotally mounted for movement of its blade towards and away from the other blade, a motor in the rear portion of said casing constituting a balancing weight for



the razor, and a rotary shaft extending forwardly from said motor and having cam means to actuate the movable arm when the shaft is rotated.

1,918,626. MACHINE FOR MANUFACTURING TAPS AND OTHER ARTICLES. ABRAM D. WILT, JR., New Canaan, Conn. Filed Nov. 21, 1930. Serial No. 497,154. 29 Claims. (Cl. 29—38.)



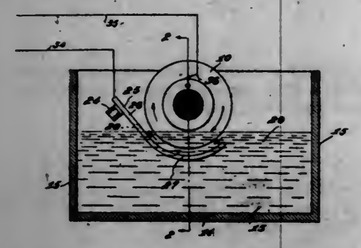
1. In a machine of the character described, in combination, a turret head, a cycle shaft, a drum cam carried thereby and formed with a groove, means carried directly by the head and disposed within the groove whereby the head is reciprocated, work carriers rotatably mounted on the head, a rotating shaft, operative connections between the shaft and the work carriers comprising clutch means and means controlled by the cycle shaft to actuate the clutch.

10. In a machine of the character described, in combination, a reciprocating work holding part, a plurality of work carriers carried thereby, means to rotate the work holding part through a predetermined angle at one extreme position of its movement comprising a sun gear carried with the work holding part, planetary pinions carried with the work carriers, respectively, whereby rotation of the work holding part rotates the work carriers through a predetermined angle, a shaft rotating in a direction opposite to that of the work holding part, clutch means to operatively connect the sun gear to said shaft to rotate the planetary pinions in the opposite direction at any time in the reciprocation of the work holding part.

26. In a machine of the character described, in combination, a turret, means mounting the turret for reciprocation, a cam, means carried by the turret and engaged by the cam whereby the turret is reciprocated, a tool holder relatively fixed in position, at least one tool carrying head thereon, a shaft rotatable with respect to the turret and axially movable therewith, means to rotate the shaft and the cam synchronously, a gear rotatable on the turret, gearing directly connecting the gear and the shaft, at least one work carrier rotatable on the

turret, a gear on the work carrier rotated by the first named gear, means to move the tool carrying head, gearing directly connecting the last named means and said shaft, rotating means, and driving connections between the rotating means and the shaft operative at every position of reciprocation thereof.

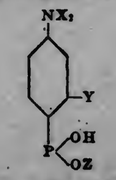
1,918,627. APPARATUS FOR PRODUCING PRINTING FORMS. ERNEST S. BALLARD, Oakland, Calif., assignor, by mesne assignments, to Standard Process Corporation, Chicago, Ill., a Corporation of Delaware. Filed Apr. 16, 1928. Serial No. 270,367. 5 Claims. (Cl. 204—6.)



1. An apparatus for forming or removing a shell-like printing surface on or from a cylindrical base, comprising a receptacle, a cylindrical base constituting an electric pole, means to rotatably support said cylindrical base in said receptacle with a portion thereof extending beneath an electrolyte solution, a plate constituting an electric pole and having a curved portion and a continuous uninterrupted surface extending substantially parallel to and coextensive with the surface of that portion of the cylindrical base that is disposed beneath the level of the electrolyte and terminating below said surface at the side of the base that moves downwardly upon rotation thereof so that rotation of the base causes circulation of the electrolyte over the immersed edge of said plate.

1,918,628. SALTS OF DIALKYLAMINOARYLPHOSPHINOUS ACIDS. LOUIS BENDA, Frankfort-on-the-Main, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed July 16, 1932, Serial No. 623,011, and in Germany July 24, 1931. 12 Claims. (Cl. 260—98.)

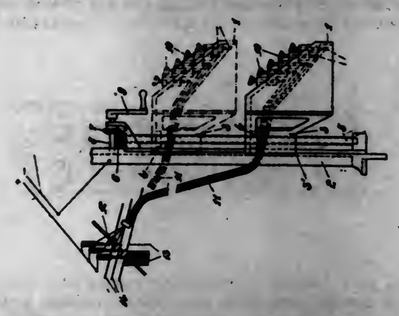
1. The process which comprises heating a crystallized compound of the following formula



wherein X stands for an alkyl radical, Y for hydrogen or a substituent of the group consisting of alkyl, alkoxy and dialkylamino, and Z for an alkali metal, at a temperature between about 70° C. and about 120° C. under a reduced pressure.

1,918,629. MATRIX-SETTING AND TYPE-LINE-CASTING MACHINE. WILHELM BLUME, Berlin-Tegel, Germany, assignor to Firm Typograph G. m. b. H., Berlin, Germany. Filed Sept. 6, 1932, Serial No. 631,921, and in Germany Oct. 29, 1931. 6 Claims. (Cl. 199—18.)

1. A matrix-setting and type-line-casting machine of the type in which the matrices situated in a magazine are released by striking keys arranged on a keyboard and flexibly connected to the matrix release devices on the



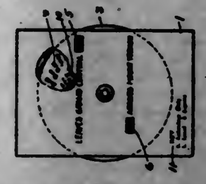
magazine, means for slidably mounting the keyboard for vertical movement, and means for adjusting the keyboard to the desired position of height.

1,918,630. AUTOMOBILE VENTILATOR. JOSEPH AUGUSTIN BOMBARD and ROLAND JAMES ROGERS, Saranac Lake, N. Y. Filed Sept. 8, 1930. Serial No. 480,566. 10 Claims. (Cl. 98—2.)



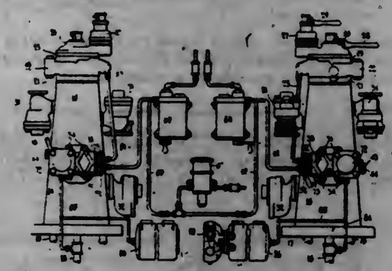
1. A ventilator for a vehicle comprising a tubular body of a length to extend longitudinally in a vehicle, said body being open at its end and divided intermediate its length to form front and rear sections, said sections having their inner ends formed with openings to communicate with a vehicle, and chambers at the sides of the outer ends of said sections having their outer ends open and their inner ends formed with openings to communicate with the interior of a vehicle.

1,918,631. TIME TABLE. EDWIN C. BURNHAM, Jr., Yonkers, N. Y. Filed Oct. 22, 1932. Serial No. 639,087. 1 Claim. (Cl. 40—70.)



A time table comprising a disc, two flat plates forming a front and a back, means rotatably mounting said disc between said flat plates, and means securing the plates together, said plates having parallel and horizontally positioned windows therein, one of said windows in each plate positioned to the right and slightly above the center of said disc and adjacent the outer edge of said plates, and another positioned to the left and slightly below the center, said latter window somewhat closer to the center than the former window which is located to the right, and said disc having two rows of numbers on each side thereof positioned to correspond with said windows, one row corresponding with the window to the right, and the other row of numbers oppositely positioned and corresponding with the inner window positioned to the left, said numbers in the outer row extending radially from points in and tangent to a circle concentric with the center of the disc, the radius of which corresponds with the perpendicular distance of the window positioned to the right of the center from the center, and that of the inner row which is similarly positioned, corresponding with the perpendicular distance of the window at the left of the center from the center, one of said windows having an inscription adjacent thereto giving the name of a station from which a departure is made, and the other giving the name of a station at which the arrival is made.

1,918,632. AIR BRAKE. CHARLES A. CAMPBELL, Watertown, N. Y., assignor to The New York Air Brake Company, a Corporation of New Jersey. Filed July 27, 1932. Serial No. 625,097. 25 Claims. (Cl. 303—14.)



1. The combination of a brake pipe; an engineer's brake valve provided with automatic train control mechanism; a double heading cock interposed between said brake valve and pipe; and means subject to brake pipe pressure and serving to prevent manipulation of said cock when brake pipe pressure is at its normal or running value.

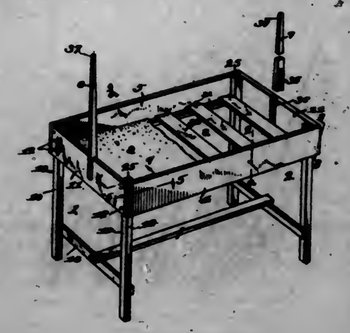
1,918,633. DEVICE FOR PREVENTING COLLAPSE OF NURSING NIPPLES. WILLIAM A. CARSTENSEN, Winthrop, Mass. Filed Nov. 16, 1931. Serial No. 575,299. 5 Claims. (Cl. 128—252.)



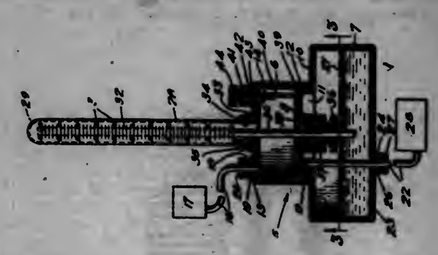
1. A device for preventing collapse of nursing nipples comprising a tubular rubber collar of less diameter than the outer neck of the bottle adapted to be applied under tension to the neck of the bottle and having integral means extending across the mouth of the bottle restricting the outlet thereof, said collar presenting an outer adhesive surface adapted when engaged by the elastically-contracted skirt of the nipple to form a hermetically-sealed closure at the base of the nipple and acting also during nursing by such adhesion to prevent slippage over the mouth of the bottle and to maintain such tension upon the free conoidal portion of the nipple above the bead thereof as will prevent contact of opposite portions of the inner wall of the nipple.

1,918,634. DISPLAY RACK. EDWARD C. CORDES, Cincinnati, Ohio, assignor to The Hyde Park Lumber Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 15, 1931. Serial No. 537,687. 9 Claims. (Cl. 211—1.)

5. A display rack comprising a pair of boards forming part of a board assemblage, a pair of legs permanently attached to each of said boards, each of the legs having a groove, a second pair of boards completing the board assemblage, and a pair of means secured to each of the second boards and having means to assume an interlocking engagement with the grooves of the legs.



1,918,635. VACUUM OR PRESSURE GAUGE. NEPHI W. CUMMINGS, San Bernardino, Calif. Filed May 15, 1929. Serial No. 363,176. 4 Claims. (Cl. 73—81.)



2. A fluid pressure gauge, comprising a pair of casings disposed one above the other, the lower casing forming a reservoir and containing liquid, the upper casing forming a chamber, and said casings having a passage to provide communication between the reservoir and the chamber; a valve for controlling the flow of liquid through said passage; means for connecting the reservoir to a source of fluid under pressure; means for connecting the chamber with a source of fluid under a pressure less than the first mentioned pressure; a transparent tube extending upward from the chamber and closed at its upper end; and a second transparent tube extending from a point within the first mentioned tube to a point below the liquid level in the reservoir.

1,918,636. SAFETY RAZOR AND HAIR CUTTER. MICHAEL J. DUFFY, Brooklyn, N. Y. Filed June 3, 1931. Serial No. 541,809. 1 Claim. (Cl. 30—12.)

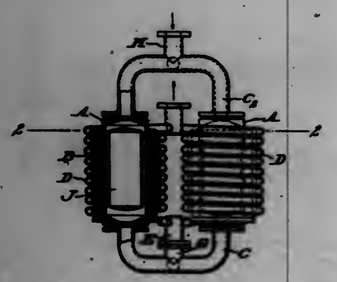
A combined safety razor and hair cutting assembly comprising in combination, a contact piece having a curved outer surface, a screwthreaded post mounted on the inner surface thereof, a spacing portion of the same outline as the contact piece and having transversely curved parallel surfaces, a combined guard and comb having a hole adapted to receive said post and teeth projecting therefrom adapted to comb and collect the hair in lots of substantially the same amount of hair, spacing studs mounted on the outer surfaces of said teeth, the protuberance of said spacing

studs from said teeth being substantially the same as the combined thickness of the contact piece and the spacing portion, and a handle adapted to lock with the post and



secure a razor blade against the guard on the outer surface thereof and the other elements in the assembled position for haircutting as above enumerated.

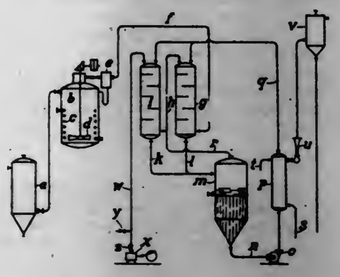
1,918,637. ELECTRIC HEATER FOR CIRCULATING FLUIDS. EMIL FENDT and CARL SCHÖRG, Frankfort-on-the-Main-Hochst, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Nov. 24, 1930, Serial No. 497,909, and in Germany Nov. 29, 1929. 2 Claims. (Cl. 219—47.)



1. Electric heater for circulating fluids with a primary windin system fitted round an iron jacket tube and a short-circuited tubular coil system as a secondary circuit wound co-axially round the primary system, in which heater the internal cross section of the heat-producing jacket tube carrying the coils is about 10 times larger than the internal cross section of the inlet pipe and in which a displacement block is arranged in the jacket tube in order to obtain the optimal velocity of the current of the fluid to be heated, the length and position of the displacement block being determined by the primary coil surrounding the jacket tube.

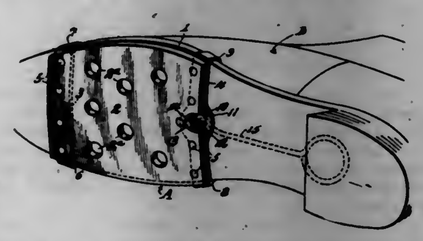
1,918,638. PROCESS AND APPARATUS FOR SEPARATING SOLVENTS FROM THEIR MIXTURES WITH OIL OR FAT IN VACUO BY EVAPORATION OF THE SOLVENTS. WILHELM GENSECKE, Gonzenheim near Frankfort-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 31, 1931, Serial No. 584,242, and in Germany Mar. 12, 1931. 4 Claims. (Cl. 202—55.)

1. A process of separating a solvent from oil or fat dissolved therein which comprises vaporizing the solvent, condensing the resulting solvent vapors by direct contact with a cooling liquid not miscible therewith, separating the condensed solvent from the cooling liquid, lowering the



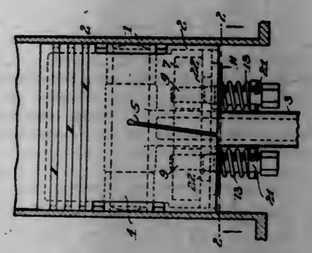
temperature of the cooling liquid by surface cooling and returning the cooling liquid to the condensing operation, said cooling liquid moving in a closed circuit.

1,918,639. ANTISLIP ATTACHMENT FOR SHOES. IRVING S. GREENTREE, Richmond, Va. Filed Apr. 18, 1932. Serial No. 605,972. 2 Claims. (Cl. 36—7.7.)



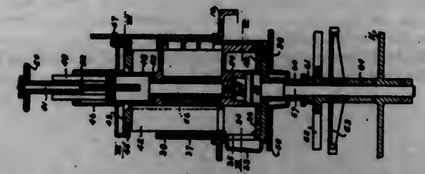
1. A detachable anti-slip device for shoes comprising a stretchable rubber pad; unitary metallic strips extending transversely across the pad and being secured thereto at its front and rear ends respectively, each end of each of said strips being formed with upwardly extending sole-engaging cleats, the upper end portions of said cleats projecting inwardly; and means on one of said strips for receiving a hook for stretching said pad when applying said device to a shoe sole.

1,918,640. EXPANDING TOOL. ROBERT R. GREININGER, Rochester, N. Y. Filed June 15, 1931. Serial No. 544,435. 11 Claims. (Cl. 153—80.)



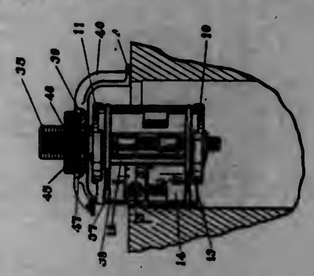
1. A piston expanding tool comprising a ring adapted to be inserted axially into a piston, a plurality of dogs on said ring, a second ring cooperating with said first mentioned ring for frictionally retaining the dogs thereon, spring controlled means pressing the second ring against the dogs and holding the latter resiliently between the rings, and means for moving said dogs radially of said ring into engagement with the walls of the piston.

1,918,641. CAN FILLING MACHINE. OSWALD H. HANSEN, Cedarburg, Wis., assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis., a Corporation of Wisconsin. Original application filed Mar. 8, 1930, Serial No. 432,608. Divided and this application filed Nov. 16, 1931. Serial No. 575,818. 5 Claims. (Cl. 226—102.)



1. In a filling machine, an annular series of measuring pockets movable about an axis, means for feeding liquid laterally into the successive pockets of said series remote from said axis, means providing a discharge opening for delivering liquid downwardly from the successive pockets of said series, and an adjustable plunger in each of said pockets, each of said plungers having a vent extending upwardly therealong adjacent to said axis and at the side of each pocket opposite said feeding means.

1,918,642. CYLINDER REAMER. ERNEST A. HALL, Toledo, Ohio, assignor to The Hall Manufacturing Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 25, 1932. Serial No. 595,138. 1 Claim. (Cl. 77—75.)



A cylinder reamer comprising a pair of end plates, means securing said plates rigidly in spaced relation, said plates having a plurality of opposed grooves, carriers slidable in said grooves, oppositely tapered surfaces on said carriers, a pair of spiders adjacent said end plates respectively, oppositely tapered surfaces of said spiders respectively engaging the tapered surfaces on said carriers, means to adjust said spiders relatively to each other, a cutting tool slidable in one of said carriers, spring means urging said tool to cutting position, a tapered surface on an intermediate portion of said cutting tool, and a screw in said tool carrier having a tapered surface coacting with the tapered surface on the tool for adjusting the tool with respect to the carrier.

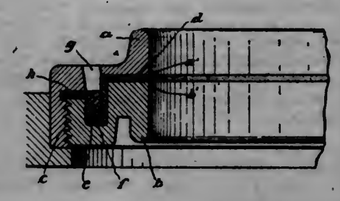
1,918,643. QUILTER FOR SEWING MACHINES. VALENTIN HECK, Heidelberg, Germany. Filed Dec. 4, 1931, Serial No. 579,048. and in Germany Oct. 17, 1930. 2 Claims. (Cl. 112—235.)

1. A divided quilting foot for sewing machines, comprising a centre piece adapted to act as a presser foot behind the sewing machine needle only, two limbs, means supporting said limbs on the center piece and permitting said limbs to be relatively rotatable about a horizontal axis and slidable along the horizontal axis relatively to the



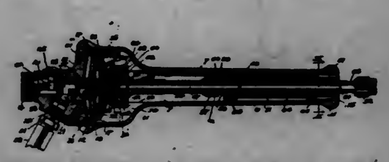
centre piece and to one another, and a single member co-operating with the supporting means to secure the limbs against both longitudinal and angular adjustment relative to one another and to the center piece.

1,918,644. RING FOR SPINNING AND DOUBLING FRAMES. CARL HOFMANN, Schonau, near Chemnitz, Germany. Filed Dec. 24, 1931, Serial No. 583,105, and in Germany Mar. 4, 1931. 4 Claims. (Cl. 118—59.)



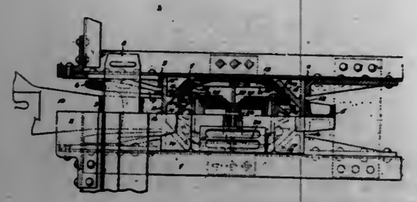
1. A traveller ring for spinning and doubling frames comprising in combination with a plurality of part rings, the said part rings forming a space for the reception of a lubricant and abutting against one another so as to form a vertical slot between two part rings, horizontal flanges on the upper of the part rings, the said flanges abutting against one another so as to form a substantially horizontal slot, the vertical and horizontal slot for conveying the lubricant to the place of contact of the horizontal flanges by the traveller, the slots which extend over considerable portions of the periphery of the ring being in communication with the space for the reception of the lubricant and an intermediate body in the slots between the part rings.

1,918,645. HAND TOOL. JOHN R. HOFFMAN, Madison, Wis., assignor to Madison-Kipp Corporation, Madison, Wis., a Corporation of Wisconsin. Filed July 1, 1931. Serial No. 548,245. 8 Claims. (Cl. 253—8.)



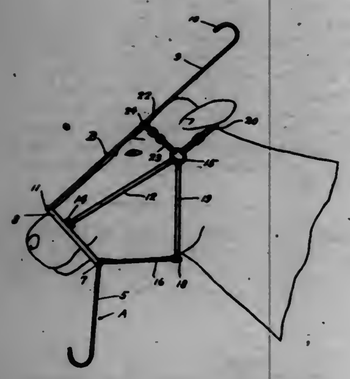
1. A hand tool comprising a hollow casing; front and rear bearings supported by said casing; a rotor carried in said bearings; means for supplying pressure fluid into said casing to actuate said rotor; means for centrifugally supplying lubricant to said bearings; and individual air deflecting members associated with each of said bearings for preventing the exhaust fluid from passing through the bearings to blow the lubricant therefrom.

1,918,646. FRICTION DRAFT GEAR. CYRUS J. HOLLAND, Chicago, Ill. Filed Sept. 30, 1927. Serial No. 223,185. 5 Claims. (Cl. 213—29.)



5. In a shock absorbing mechanism, spaced followers having diverging friction faces at their confronting sides, lateral wedge members having their end portions inclined and coacting with said friction faces, spring arranged in tandem relation between the followers, means located within the confines of said wedge members and operatively connected therewith for movement toward each other upon inward movement of said wedge members for applying compression longitudinally upon said springs, and abutment means between the springs positioned by the wedge members.

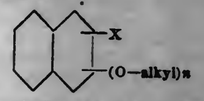
1,918,647. ANIMAL POKE. JENS JENSEN, Rhame, N. Dak. Filed Feb. 1, 1933. Serial No. 654,716. 2 Claims. (Cl. 119—142.)



1. A poke structure of the class described including, in combination, a lower hook member formed with a straight shank having its lower end curved to provide a hook, a cross rod formed on the upper end of the shank, a pair of side bars in adjacent ends of which the ends of the rod are journalled, an upper hook member comprising a straight shank having a cross rod at one end with its ends journalled in the other ends of the side bars, said shank of the upper member terminating in a hook, and means for mounting the side bars on the head of an animal.

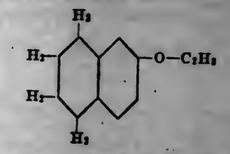
1,918,648. PROCESS FOR MANUFACTURING AR-TETRAHYDRONAPHTHOL ETHERS. ERNST KORTEN, Frankfort-on-the-Main-Fechenheim, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Dec. 3, 1928, Serial No. 323,586, and in Germany Dec. 6, 1927. 10 Claims. (Cl. 260—150.)

1. A process which comprises treating a naphtholether of the general formula:



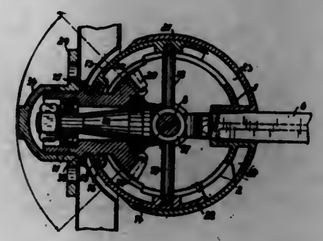
wherein X means hydrogen or an acylamino group, and n means the number 1 or 2, with hydrogen in the presence of a base metal hydrogenation catalyst.

7. As a new compound the ar-2-ethoxy-tetrahydronaphthalene of the probable formula:



representing an easily mobile oil boiling at 123° under a pressure of 8 mm.

1,918,649. BEVEL DRIVE FOR THE STEERING WHEELS OF MOTOR VEHICLES. FRITZ KRÖHL, Reinickendorf-Ost near Berlin, Germany. Filed Mar. 16, 1931, Serial No. 523,114, and in Germany Dec. 13, 1929. 2 Claims. (Cl. 74—101.)



1. A bevel drive for the steering wheels of motor vehicles, comprising a wheel hub for the steering wheel, a steering swivel journal, a steering swivel oscillatable about the axis of the steering swivel journal, a divided casing, formed with an aperture through which the steering swivel and the wheel hub of the steering wheel extend out of the casing, said casing having cavities in its walls, at least one screen adapted to seal the said aperture, and guiding pins connecting the screen and the steering swivel to positively move the screen in the cavities and in a direction corresponding to that in which the steering swivel is deflected.

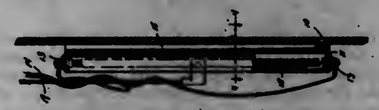
1,918,650. BATHING SUIT. THOMAS LA MAIDA, Cleveland, Ohio. Original application filed Oct. 31, 1932, Serial No. 640,522. Divided and this application filed Jan. 16, 1933. Serial No. 651,941. 2 Claims. (Cl. 2—67.)

1. A knitted bathing suit having a closed form-fitting crotch insert comprising a saddle having an upwardly facing concave edge extending from the front to the rear of said suit, and outwardly facing convex edges, said convex edges being seamed to said suit to form curved seam lines across the bias of the knitted goods, said seam lines flaring downwardly and outwardly and terminating



at a point along a line substantially tangent to both legs of the wearer, and said saddle having downwardly extending medial seams in the inner leg walls for reinforcing the same against rolling up.

1,918,651. WINDSHIELD HEATER AND WIPER. ALVIN G. LUTTRELL, Dallas, Tex. Filed Feb. 8, 1933. Serial No. 655,108. 2 Claims. (Cl. 15—250.)



1. A windshield heater and wiper comprising an electrical heater having an elongated hollow casing composed of end, side, front and rear walls, the rear wall being narrower than the front wall to provide an opening adjacent one side of the casing, said one side of the casing having an integral extension folded forwardly and centrally bent upon itself to provide a U-shaped holder, a wiping element secured in said holder directly adjacent said opening, a resistance element extending longitudinally of the casing adjacent the other side of the latter and to one side of said opening, and means for placing the resistance element in an electric circuit including terminals mounted in and insulated from the end walls of the casing.

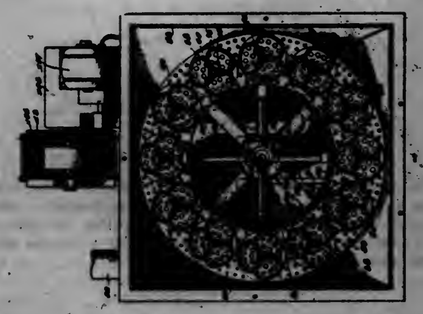
1,918,652. YIELDING STOP. EDWARD E. MARBACH, Cleveland, Ohio. Filed May 25, 1931. Serial No. 539,648. 3 Claims. (Cl. 16—82.)



1. A stop comprising a rubber composition member having an axial opening for receiving a serrated bar therethrough spring means comprising a pair of metallic discs arranged in contact, one disc of the pair having a plurality of prongs bent outwardly and away from the other disc, vulcanized in the rubber member and adapted to engage the serrations of the bar to prevent inadvertent movement between the rubber member and the bar.

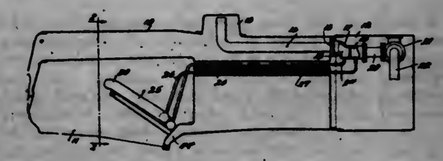
1,918,653. EGG CLEANING MACHINE. PERRY S. MARTIN, Harrisonburg, Va. Filed July 27, 1929. Serial No. 381,561. 29 Claims. (Cl. 51—15.)

1. In an egg cleaning machine, a rotatably mounted table, and means for rotating the same on a predetermined axis, means for moving eggs across said table in a circular path independent of the table axis, means normally acting to cause gravitation of the eggs away from their axis of



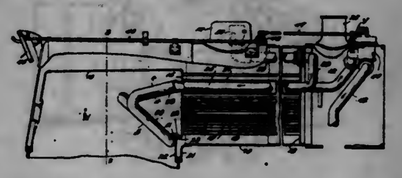
movement, and means for directing a sand blast against said eggs which acts when said eggs are nearest to the table axis to counteract the action of gravity.

1,918,654. SUPERHEATER. JOHN A. MCGREW, Albany, N. Y. Filed Sept. 8, 1930. Serial No. 479,572. 6 Claims. (Cl. 122—481.)



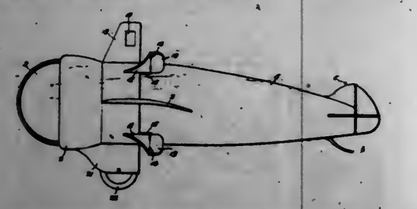
1. A locomotive firebox arch comprising a supporting structure of water tubes, a metallic member providing a tortuous steam conduit mounted on said structure centrally of the firebox, and refractory material disposed around said member to form therewith a substantially gas tight screen.

1,918,655. LOCOMOTIVE BOILER CONSTRUCTION. JOHN A. MCGREW, Albany, N. Y. Filed Dec. 7, 1931. Serial No. 579,623. 16 Claims. (Cl. 122—481.)



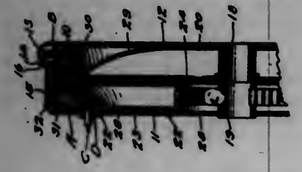
8. A locomotive superheater installation including, in combination, a combined firebox arch and superheater unit comprising a metallic member providing a tortuous steam conduit and having its forward edge disposed in contact with the inner throat sheet of the firebox and extending upwardly and rearwardly therefrom, and steam conduits connecting said unit with the locomotive boiler and the engine cylinders respectively.

1,918,656. AEROPLANE. LEONARD C. MICHAELSEN, Dow City, Iowa. Filed July 30, 1932. Serial No. 626,801. 7 Claims. (Cl. 244—14.)



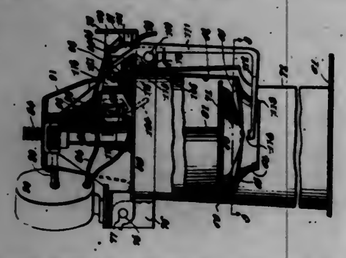
4. An aeroplane comprising a longitudinal annular cowling, a wing mounted transversely on the cowling, a fuselage connected to the cowling, a propeller operable in the cowling, and a circumferential series of radial ailerons hingedly mounted on the cowling.

1,918,657. REEL FOR ELECTRIC CORD. FRANCIS H. MILLAR, Los Angeles, Calif. Filed Sept. 15, 1930. Serial No. 482,018. 1 Claim. (Cl. 242—107.)



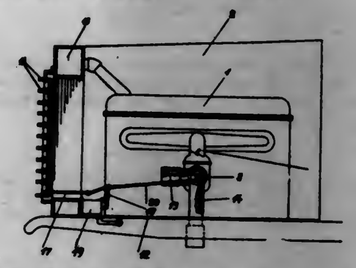
A device of the class described comprising two relatively revoluble bodies of approximately corresponding diameters, each having a flared peripheral surface, the peripheral surface of one body merging onto the peripheral surface of the other said body, the said bodies being separated from each other to define a relatively narrow space therebetween, a rotary disk occupying the said space between the bodies, a pulley mounted at the periphery of the disk and having a surface extending laterally towards the peripheral surfaces of the respective bodies, and a coil spring having one end attached to the disk at the axis of rotation thereof and its other end attached to one of said bodies.

1,918,658. JUICE EXTRACTOR. EDWARD H. MITCHAM, New York, N. Y. Filed Feb. 21, 1930. Serial No. 430,326. 3 Claims. (Cl. 100—44.)
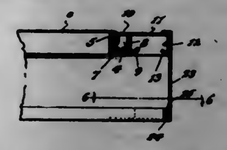


1. A fruit squeezer comprising a support, a bowl carried by the support, an expressing plate in the bowl, a swinging head carried by the support and movable over the bowl, means for latching the head in its operative position over the bowl, a plunger slidable in the bowl toward and away from the expressing plate, an electric drive motor of the reversible type for operating the plunger, a reversing switch for the motor carried by the head, a circuit breaker carried by the head including a sliding contact, and means for automatically operating the reversing switch by the plunger at the end of its travel in both directions, and means for actuating the sliding contact of the circuit breaker by said last mentioned means when the plunger reaches its uppermost position in the bowl.

1,918,659. AIR TEMPERATURE REGULATOR. FRITZ NALLINGER, Stuttgart-Unterturkheim, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany, a Company of Germany. Filed Jan. 6, 1931, Serial No. 507,008, and in Germany Jan. 6, 1930. 2 Claims. (Cl. 123—122.)



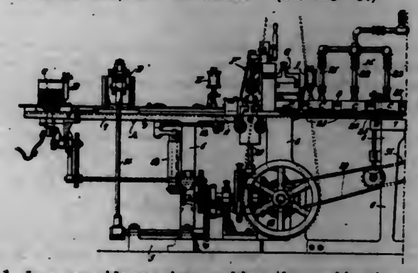
1. The combination with an internal combustion engine of a thermostat, radiator closing members adapted to be adjusted by the thermostat and a single regulating member for supplying warm air from the space within the engine hood or cold air from outside this space to the carburetter which is adjusted by the thermostat.

1,918,660. WINDOW SCREEN. RALPH A. NORQUIST and GLENN H. NORQUIST, Jamestown, N. Y. Filed Nov. 18, 1930, Serial No. 496,523. Renewed Apr. 11, 1932. 6 Claims. (Cl. 156—14.)



4. A window screen frame of channel formation, and a supplemental frame secured to the sides of said screen frame and extending inwardly therefrom and having its inner edge doubled upon itself.

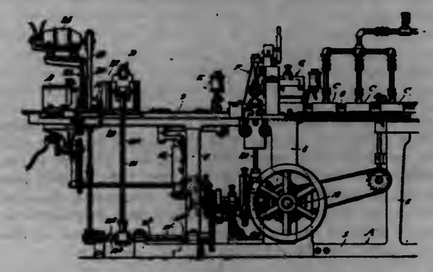
1,918,661. METHOD AND MACHINE FOR SIDE SEAMING CAN BODIES. WALTER J. PHELPS, Baltimore, Md., assignor to Phelps Can Company, Baltimore, Md., a Corporation of West Virginia. Filed Oct. 31, 1931. Serial No. 572,404. 11 Claims. (Cl. 113—9.)



1. In a can side-seaming machine, the combination with means for forming a can body including a side seam comprising a central lock portion and lapped end portions, of a primary means for applying heat to said central lock portion only, a secondary means for applying a lesser amount of heat to the lapped end portions, and means for soldering the seam immediately subsequent to the application of said heat thereto.

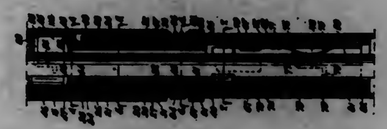
10. The method of forming side seaming can bodies consisting in first forming a can body including a side seam comprising a central lock portion and lapped end portions, then applying heat to the central lock portion, then applying a lesser amount of heat to said lapped end portions, and finally soldering the seam throughout its length.

1,918,662. MACHINE FOR SIDE SEAMING CAN BODIES. WALTER J. PHELPS, Baltimore, Md., assignor to Phelps Can Company, Baltimore, Md., a Corporation of West Virginia. Filed Jan. 11, 1932. Serial No. 586,018. 18 Claims. (Cl. 113—7.)



1. In a "lock and lap" can side seaming machine, the combination with a surface cleaning mechanism and a cutting mechanism arranged one in advance of the other, the surface cleaning mechanism including a pair of constantly rotating cleaning elements, and means for intermittently and progressively conveying a can body blank having a lacquered face past said mechanisms whereby the lacquer on the corner portions at one side of the blank will be removed and said corner portions will be beveled, and the corner portions on the opposite side of the blank will be notched to form resultant tongues.
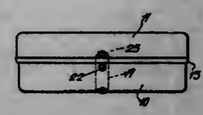
1,918,663. PIPE UNSCREWING TOOL. RALPH A. PHILLIPS, Torrance, Calif. Filed Nov. 25, 1932. Serial No. 644,206. 12 Claims. (Cl. 255—35.)



1. A pipe unscrewing device of the character described for use on a string of pipe consisting of separate pipes secured together by threaded joints, including: a tubular structure adapted to pass over said string of pipe, said structure having upper and lower engaging means for engaging said string of pipe respectively above and below a threaded joint thereof, and actuating means for turning said upper and lower engaging means in opposite directions; and a supporting member extending from said actuating means.

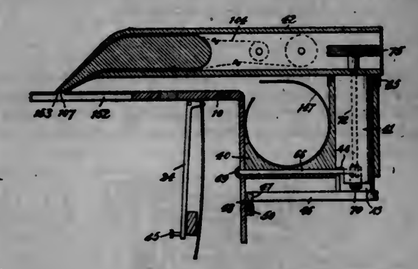
1,918,664. POLISH CAN OR BOX. ARTHUR W. RASMUSSON, Lead, S. Dak. Filed Feb. 20, 1932. Serial No. 594,283. 1 Claim. (Cl. 220—35.)

In a box of the character described, the combination with a body member having a peripheral wall, a portion of which is set outwardly to provide an inwardly opening recess, a lid having a peripheral wall having telescopic engagement with the peripheral wall of the body, a portion of which is pressed outwardly for disposition concentric of said recess and engaging the outer wall thereof, and being also provided with oppositely disposed ears for disposition at the outer sides of the end walls of said recess, a hinge pin extending outwardly through the end



walls of said recess and engaging said ears, and a spring convoluted about said pin within said recess and having oppositely bent ends engaging the walls of said body and lid and acting on the lid for urging the same to an open position, and latch means for retaining the lid in a closed position in opposition to the action of said spring.

1,918,665. TYPEWRITING MACHINE. DAVID Y. READ, Washington, D. C., assignor of one-fourth to Jessie P. Grandy, Washington, D. C., and one-fourth to Henry H. Snelling, Washington, D. C. Filed Feb. 9, 1926. Serial No. 87,075. 23 Claims. (Cl. 197—1.)



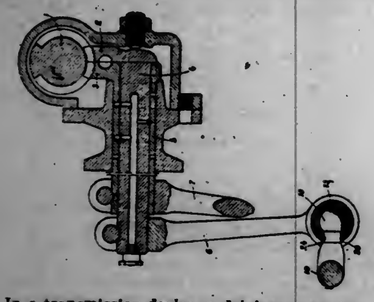
7. In a typewriter, a plurality of type bars, a hollow platen carrying arm, a platen integral with said arm, and a ribbon crossing the platen from front to back and extending tight to one side edge of the platen.

1,918,666. GLASS RUN CHANNEL. JAMES S. REID, Shaker Heights, Ohio, assignor to The Reid Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 21, 1931. Serial No. 524,316. 9 Claims. (Cl. 296—44.5.)



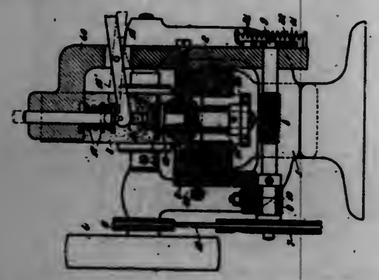
1. A glass run channel, comprising a generally channel-shaped resilient metal structure having a base and a pair of side walls, said base and said side walls being provided with transversely disposed slits and said side walls terminating at their outer edges in generally tubular glass-engaging bead means, a re-enforcing wire in the bead means of each of said side walls, and cushioning means for each of said glass-engaging bead means.

1,918,667. CONTROLLING MECHANISM. EUGÈNE PROSPER RENAUX, Paris, and LUCIEN JULES RENAUX, Livry-Gargan, France. Filed July 21, 1931, Serial No. 552,278, and in France Aug. 1, 1930. 4 Claims. (Cl. 74—79.)



1. In a transmission device, a driving screw, two driven members provided with screw threaded portions engaging said screw and adapted to be moved both in the same direction when said screw is rotated, two pivoted levers operatively connected with said two driven members respectively and adapted to move said two driven members in opposite directions along the screw when said levers are turned away from each other, spring means interposed between said pivoted levers and adapted to urge said levers away from each other, and mechanism adapted to be operated and connected with said levers.

1,918,668. MACHINE FOR GRINDING THE EDGES OF WATCH GLASSES. PAUL REUSSER, Biel, Switzerland. Filed Feb. 28, 1929, Serial No. 343,412, and in Switzerland Jan. 15, 1929. 4 Claims. (Cl. 51—95.)



1. A machine for grinding and polishing the edges of watch glasses and the like comprising a fixed guide, a movable slide mounted thereon, a rest or carrier upon said slide, means for clamping the work in said rest, a grinding disk, a rotatable vertical shaft supporting said carrier carried by said movable slide, a Geneva gear mounted on said shaft, a pin wheel mounted adjacent said Geneva gear upon said slide, a pin carried by said pin wheel adapted to engage said Geneva gear, a worm wheel carried by the shaft of said pin wheel, a worm mounted upon a movable shaft, said last named shaft being pivotally mounted at one end, means for moving said worm into and out of engagement with said worm wheel and means for driving said last named shaft.

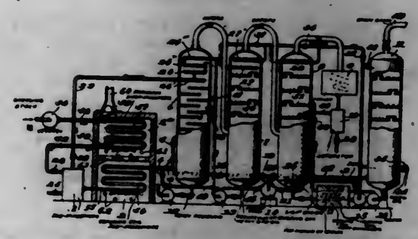
1,918,669. ROAD SCRAPER. MANUEL C. SILVA, Los Banos, Calif. Filed Mar. 14, 1932. Serial No. 598,825. 1 Claim. (Cl. 37—129.)

A road scraper comprising a horizontal substantially U-shaped frame composed of spaced side members rigidly connected at their rear ends by a cross member, a scraper bowl having a rearwardly and upwardly extending handle and arranged between and pivoted at its ends to the free forward ends of the side frame members for free rotation within the frame upon a transverse axis, a transverse rod rigid with and connecting the side members of the frame intermediate their ends, a platform laid across and secured upon the rear cross member of the frame and said transverse rod, stub shafts rigid with and rising from the rear cross member of the frame near but spaced



inwardly from the ends of the latter, brackets including sleeves journaled on said stub shafts and members rigid with and projecting rearwardly from said sleeves, ground engaging wheels journaled in the rear ends of said rearwardly projecting bracket members to support the rear end of the frame above the ground, and diagonally arranged inclined braces between the upper ends of said stub shafts and the side members of the frame.

1,918,670. APPARATUS FOR TREATING HYDROCARBON VAPORS. WILLIS F. SIMS and VENUS U. CLOER, Wichita Falls, Tex., assignors to Panhandle Refining Company, Wichita Falls, Tex., a Corporation of Texas. Filed Nov. 23, 1929. Serial No. 409,407. 2 Claims. (Cl. 196—139.)

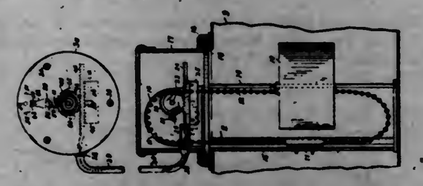


1. In a plant of the class described, a plurality of serially connected fractionating units containing serially connected heat exchangers, a plurality of means connected each to one of said fractionators adapted to withdraw condensate therefrom, an outlet connection from each of said means to a corresponding heat exchanger or preheating coil, in a preceding fractionator, and means to force condensate through said heat exchangers, whereby heavier and lighter condensate in succession may be drawn off and refluxed for retreatment the surfaces of said heat exchanging units increasing in size in proportion to the specific gravities of the several grades of condensate supplied thereto, and therefore proportionately to the temperatures required to vaporize the same.

1,918,671. RUBBER. DAVID SPENCE, Forest Hills, N. Y., assignor to Intercontinental Rubber Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 17, 1928. Serial No. 262,603. 6 Claims. (Cl. 18—49.)

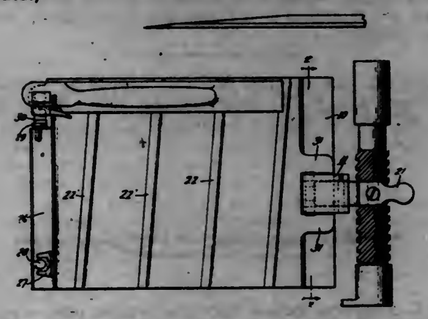
4. The improvement in the mechanical extraction of rubber from guayule shrub which comprises maintaining the shrub after harvesting and before milling in a wet condition for a period of several days, moistening the shrub from time to time during such period to maintain it in a regulated moist condition, subjecting the shrub at the same time to air so that air comes in contact with the shrub in its regulated wet condition, regulating the wet condition of the shrub and continuing such treatment under such regulated conditions until far-reaching changes are effected in the shrub, due to natural agencies, such that a large part of the organic matter present in the shrub in a water insoluble condition is converted into a water soluble condition and in particular to decompose and render water soluble a substantial amount of the normally water-insoluble constituents of the shrub which would otherwise be milled from the shrub with the rubber as acetone-soluble constituents of the rubber, and subjecting the resulting shrub to a milling operation in the presence of water to effect extraction of water soluble constituents and agglomeration of the rubber into a rubber product of improved properties and of low acetone-soluble content.

1,918,672. GASOLINE GAUGE. GEORGE A. SZABO, Cleveland, Ohio. Filed June 17, 1932. Serial No. 617,702. 6 Claims. (Cl. 73—82.)



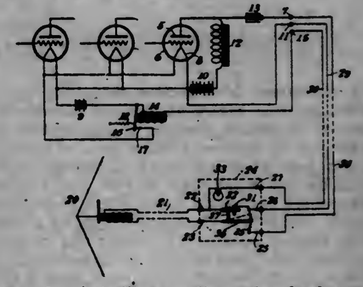
1. A liquid level indicator comprising a float, a flexible connection operatively connected to said float, a gauge comprising, a frame, a member rotatably supported by said frame, a dial rotatably supported by said frame, a pointer carried by said member, means operatively connected to said flexible connection for rotating said member upon movement of said float, and means operatively connected to said member for moving said dial.

1,918,673. WORK HOLDER FOR SLICING MACHINES. HENRY THOMAS, London, England, assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed Nov. 8, 1926, Serial No. 146,888, and in Great Britain Mar. 2, 1926. 20 Claims. (Cl. 146—102.)



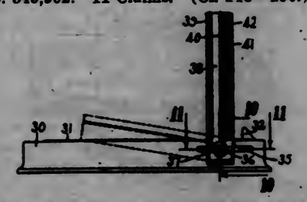
1. The combination with a feed table of a slicing machine, of a display tray mounted on said feed table, interengaging means on said feed table and display tray for holding one side of said display tray in position on said feed table, a bracket at the opposite side of said feed table, spaced ears on said display tray for engaging said bracket, and a spring catch mounted on said bracket for engaging said ears to hold said opposite side of said display tray in position on said feed table.

1,918,674. RADIORECEIVER CONTROL. BOWDEN WASHINGTON, New York, and WILSON AULL, Jr., Astoria, N. Y., assignors to Remotrole Corporation, a Corporation of New York. Original application filed June 18, 1927, Serial No. 198,470, now Patent No. 1,881,891. Divided and this application filed Sept. 17, 1927. Serial No. 220,137. 3 Claims. (Cl. 250—20.)



1. Means for controlling a radio receiver having vacuum tubes and a loud speaker, said means consisting of a relay having contacts for opening and closing the complete cathode heating circuit of said receiver, said relay being adapted for operation from the cathode heating source, a control box having a voltage divider provided with a manual control and adapted to control the input to said loud speaker, and a switch in the operating circuit of said relay connected for operation by the manual control of said voltage divider.

1,918,675. BREAD SLICING APPLIANCE. WILLIAM R. WEBSTER, Bridgeport, Conn. Filed July 10, 1931. Serial No. 549,902. 11 Claims. (Cl. 146—150.)



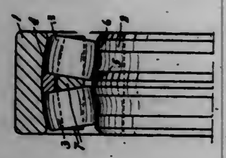
1. An appliance for use in cutting bread or the like comprising a base member having slots in the side walls thereof, slide pieces guided in said slots, a bow-like knife-guiding element having its ends pivotally mounted upon said slide pieces, and means upon which said knife-guiding element ends are pivoted for securing said slide pieces in their adjusted positions in said slots and for securing said knife-guiding element to said slide pieces.

1,918,676. CONDUIT FITTING. JESSE M. WHITE, Philadelphia, Pa. Filed Dec. 11, 1931. Serial No. 580,476. 2 Claims. (Cl. 247—6.)



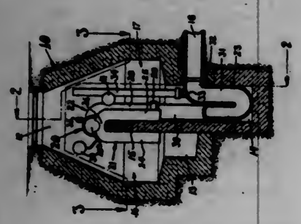
1. A conduit fitting comprising a ferrule having a tapered reduced part, a loom fitting normally within the reduced part, and a ring within the loom expanded therein to expand the loom locally to form an external rib contacting with the reduced part of the ferrule.

1,918,677. DOUBLE-ROW ROLLER BEARING. SVEN GUSTAF WINGQUIST, Skara, Sweden. Filed Nov. 27, 1931, Serial No. 577,570, and in Sweden Sept. 11, 1931. 4 Claims. (Cl. 308—214.)



1. A double-row roller bearing comprising an integral outer bearing ring having an internal surface of which the portion of greatest diameter is intermediate its marginal portions to serve as a roller race, an inner bearing ring, two rows of rollers mounted between said rings, and a guide ring in the space between said bearing rings to separate the inner ends of the rollers of the two rows, said guide ring having an external diameter greater than the least diameter of the outer bearing ring at either side of the guide ring, the guide ring being sufficiently flexible to permit it to be inserted in the outer bearing ring with the axes of the two rings out of alignment and the guide ring then rotated to its normal position with respect to the bearing ring.

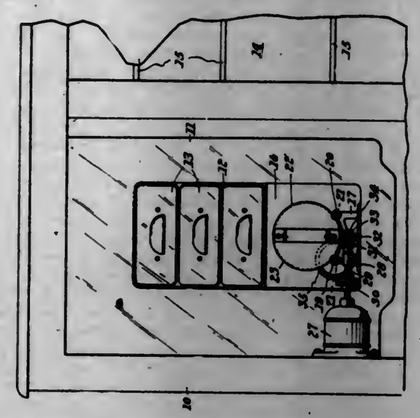
1,918,678. AUTOMATIC SEWER FLUSHER. HERMAN WIRZ, Jr., Los Angeles, Calif., assignor of forty-nine one-hundredths to Charles F. Hlavaty, Los Angeles, Calif. Filed Dec. 21, 1931. Serial No. 582,272. 7 Claims. (Cl. 137—106.)



1. In a sewer flushing device, a reservoir comprising two parts, one of said parts being deeper than the other, a conduit leading from said deeper part, a siphon device including a pair of communicating spaced legs positioned with one of said legs communicating with one of said reservoir parts and the other leg with the other of said parts, said device having an outlet, a hollow member connected to said outlet, said hollow member extending down into said deeper part below the said conduit and communicating with said conduit.

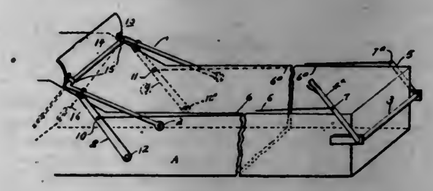
1,918,679. MIXING DEVICE. BURTON H. WITHERSPOON, Pittsburgh, Pa. Filed May 13, 1931. Serial No. 537,001. 4 Claims. (Cl. 259—81.)

1. The combination with the freezing chamber of a domestic refrigerator, of substantially parallel shafts journaled therein, a cylindrical container removably supported thereon for rotation, a motor for driving at least



one of said shafts, agitating means within said container for rotation therewith, and a removable, imperforate cover on at last one end of the container.

1,918,680. MANURE SPREADER. SAMUEL B. ALCOTT, Ursina, Pa. Filed Mar. 31, 1931. Serial No. 526,709. 8 Claims. (Cl. 275—5.)



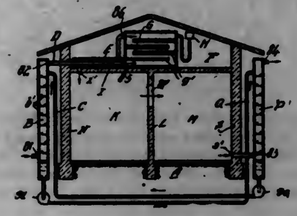
6. In a manure spreader having a bed, an end-gate and compound lever means for raising said end-gate comprising a first lever in the form of an inverted substantially U-shaped bail pivoted at the ends to the bed and carrying the end-gate, remote from the pivots, a second lever having pivotal connection to the bed and a sliding engagement with said first lever from a point adjacent the end-gate to a point adjacent the pivot of said first lever and means to actuate said second lever from said first point to said second point whereby the most effective effort may be exerted at the beginning of the end-gate raising operation.

1,918,681. IRRIGATING DEVICE. THOMAS DAIN ALLEN, New York, N. Y. Filed May 14, 1931. Serial No. 537,828. 12 Claims. (Cl. 128—239.)



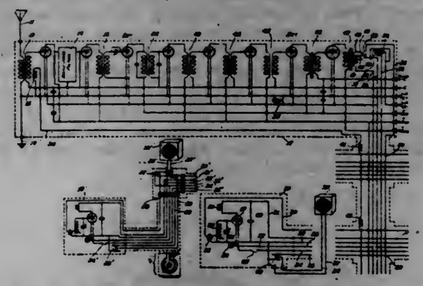
1. A portable fixture comprising a colon tube, a relatively stationary supporting frame, an axially movable fluid supply tube carried by the frame and means to connect the axially movable tube to the colon tube comprising apertured means on the frame to support the colon tube, an apertured plate slidable on the last named means and carried by the slidable tube, and means to actuate the axially moving tube.

1,918,682. PROCESS FOR CONDITIONING AIR OR THE LIKE. EDMUND ALTENKIRCH, Neuenhagen near Berlin, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany. Filed Feb. 17, 1931, Serial No. 516,318, and in Germany Sept. 5, 1929. 8 Claims. (Cl. 62—119.5.)



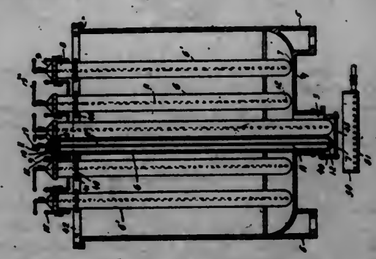
1. A thermodynamic process for varying the moisture of atmospheric air by means of water vapor absorbing materials, consisting in exchanging, by means of an air stream, water vapor between a body of absorption material of a given degree of concentration and a similar body of a different degree of concentration, and in the evaporation of the vapor from one body within a temperature range different from the temperature range at which the other body absorbs the vapor, whereby the change in vapor concentration of one body within the lower temperature range is reversed in the higher temperature range, and the change in vapor concentration of the other body within the higher temperature range is reversed in the lower temperature range.

1,918,683. REMOTELY CONTROLLED RADIORECEIVER. WILSON AULL, Jr., Jackson Heights, N. Y. Filed Dec. 23, 1930. Serial No. 504,253. 8 Claims. (Cl. 250—20.)



1. In remote controlled radio receivers, the combination of a stationary unit including a power supply, a signal collector, amplifying means, detection means, relay means and substantially stationary tuning means, a substantially non-radiating poly-functional transmission line unit, including a conductor suitable for transmitting high frequency control oscillations to said receiver, a conductor suitable for transmitting a low frequency power supply, and a conductor suitable for transmitting relay operating current, and a control unit, located at a distance from said stationary unit and including oscillation generating means, frequency variation means and relay control means, all of said units coacting with one another to connect said power supply to all of said units, receive a band of broadcast signals, select signals of a desired frequency from said band, amplify said signals, detect said signals and deliver said signals to a responsive device, substantially without mechanical motions within said stationary unit.

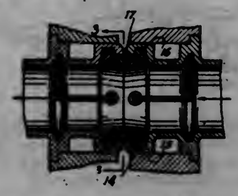
1,918,684. SULPHUR MELTER. EVERETT EUGENE BRAGG, Chicago, Ill., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed May 1, 1929. Serial No. 359,527. 14 Claims. (Cl. 23—280.)



1. A sulphur melter comprising a vessel arranged to receive the sulphur to be melted and provided with a plurality of tubes within the vessel adapted to contain heating fluid at temperatures above the melting point of sulphur for imparting heat to melt the sulphur, said tubes being grouped within the vessel so that the outer wall of each of said tubes is spaced sufficiently close to adjacent tubes to melt the sulphur in said vessel.

8. A sulphur melter comprising a vertical vessel having an open top and provided with a discharge port in the base thereof for the molten sulphur, a plurality of vertical tubes within the vessel disposed parallel to the walls of said vessel, having one end extending to substantially the base of said vessel and the other end extending through said open top and pipes within said tubes having one end open and spaced away from the bottom of said tubes, said tubes being grouped so that the outer tubes of said group are spaced away from the inner walls of said vessel a sufficient distance to permit an insulating layer of sulphur to form on said inner walls, and each tube of said group is positioned sufficiently close to adjacent tubes to melt the sulphur intermediate the said tubes, means for supplying steam to said tubes and for withdrawing the water from said pipes.

1,918,685. GASKET FOR TRAIN PIPE CONDUITS. JOSEPH M. BRILL and MARTIN A. BARBER, Cleveland, Ohio, assignors to Consolidated Connector Patent Corporation, Cleveland, Ohio, a Corporation of Delaware. Filed May 4, 1931, Serial No. 534,793. Renewed Nov. 21, 1932. 3 Claims. (Cl. 285—69.)



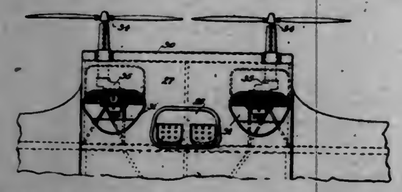
1. In combination, a train pipe fluid conduit, a gasket therefor, said gasket comprising an outer metallic member and an inner resilient member, the outer member cooperating with the conduit to completely enclose the inner member, said conduit having an annular groove in back of the gasket, a flexible member having a semicircular intermediate portion lying within the groove, and having end portions extending forwardly, and operatively connected to the outer member for holding said members in position with reference to the conduit.

1,918,686. VACUUM CUP. GEORGE W. BUNGAY, Plainfield, N. J., assignor, by mesne assignments, to Household Field Corporation, New York, N. Y., a Corporation of New York. Filed June 3, 1932. Serial No. 615,261. 9 Claims. (Cl. 294—64.)



1. A vacuum cup having a bead and a vacuum lip adapted to engage a surface and means associated with said bead adapted to slide on a surface and to prevent said vacuum lip from curling under in response to sliding movement of the vacuum cup on said surface.

1,918,687. AIRCRAFT. VINCENT J. BURNELLI, New York, N. Y., assignor, by mesne assignments, to Burnelli Aircraft, Ltd., Dover, Del., a Corporation of Delaware. Filed Jan. 28, 1928, Serial No. 250,234. Renewed Dec. 7, 1932. 1 Claim. (Cl. 244—81.)



In an airplane, a fuselage of appreciable width having an entering edge of airfoil contour, a pair of vertically extending slots in the fuselage, a pair of radial air-cooled engines disposed respectively in the slots, a pair of propeller shafts projecting from the entering edge forming the only irregularities in the surface thereof, the axes of the engines and the propeller shafts being in substantial parallelism, but with the propeller shafts spaced a greater distance apart than the axes of the engines, and means connecting the respective engines and shafts in driving relation.

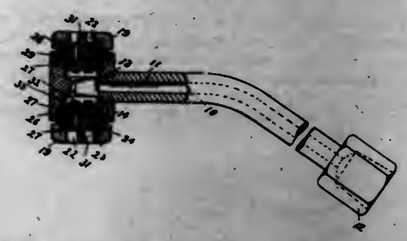
1,918,688. AIRCRAFT. VINCENT J. BURNELLI, New York, N. Y., assignor, by mesne assignments, to Burnelli Aircraft, Ltd., Dover, Del., a Corporation of Delaware. Filed Mar. 27, 1928, Serial No. 265,022. Renewed Dec. 14, 1932. 12 Claims. (Cl. 244—2.)



1. In an airplane, ground contact means arranged to sustain the airplane in stable equilibrium on the ground at an angle relative the line of flight such that the lift of the airplane is substantially nullified.

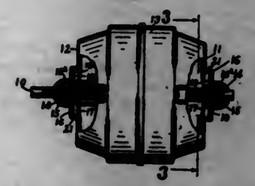
1,918,689. AIR CHUCK. JOHN C. CROWLEY, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 24, 1931. Serial No. 517,855. 1 Claim. (Cl. 384—17.)

A device of the character described comprising a member having a chamber therein adapted to be connected with a fluid pressure line and having counterbores at opposite ends communicating with said chamber, gaskets arranged in said counterbores and having central openings therethrough, sleeves supported by said gaskets and arranged in the openings therein, and independent valves having enlarged head portions arranged in said chamber and pins extending therefrom and passing through said sleeves,



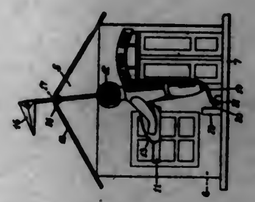
said pins having diameters such as to be slidably guided by said sleeves and being provided with longitudinally extending flats, said valves being movable independently of said gaskets and each other and the heads thereof being maintained seated on said gaskets by the fluid pressure in said chamber.

1,918,690. ELECTRICAL MOTOR. HENRY C. ENGELHARDT, Hamden, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn. Filed June 21, 1928. Serial No. 287,130. 6 Claims. (Cl. 308—72.)



1. In a bearing structure, a hollow bearing support, a bearing member disposed within said support, and means to constantly urge said member toward said support, comprising a plate of resilient material, and means comprising parts of the material of said support engaging the outer peripheral edge of said plate at spaced apart points thereabout to secure said plate to said support.

1,918,691. TOY BANK. HERMANN ESCHENBACHER, Ridgewood, N. Y. Filed Nov. 11, 1931. Serial No. 574,307. 5 Claims. (Cl. 46—36.)



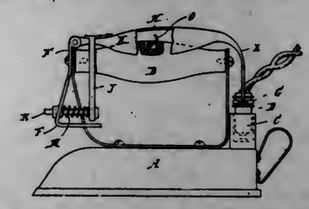
1. In combination with a toy bank, a figure in front of said bank, means revolvably supporting said figure on said bank substantially above and horizontally offset below said figure, a coin tray carried by said figure, a stop against which said figure normally rests, a coin deposited on said tray being swung into said bank, when said figure is revolved away from its position of rest against said stop by the weight of said coin deposited on said tray.

1,918,692. FINISHED SURFACE AND PROCESS FOR PRODUCING SAME. CHARLES ELLIOTT FAWKES, Chicago, Ill., assignor to Pyroxylin Products, Incorporated, Chicago, Ill., a Corporation of Illinois. Filed July 9, 1928. Serial No. 291,476. 16 Claims. (Cl. 91—68.)

1. A material carrying a protective coating comprising a continuous coating of glue and a substantially non-volatile glycerol ester and one or more coats of a nitrocellulose containing finishing material applied to the glue containing priming coat.

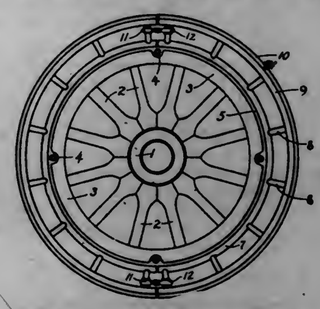
10. The herein described process of finishing fibre furniture comprising spraying a water solution of glue and a glycerol ester and a pigment as a priming coat on the surface of said fibre furniture and wherein steam is used to secure atomization of said glue containing solution, allowing the said priming coat to dry and applying thereto one or more coats of a nitrocellulose containing finishing material.

1,918,693. ELECTRIC IRON. ROBERT FLEMING, Whangarei, New Zealand. Filed Jan. 7, 1931, Serial No. 507,180, and in New Zealand Sept. 22, 1930. 1 Claim. (Cl. 219—25.)



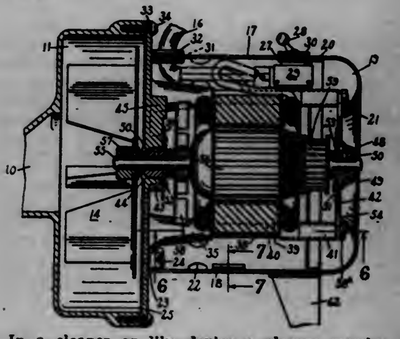
In an electric iron having a terminal-containing socket and a supply plug in said socket, a lever-arm disposed above the handle, one end of said lever projecting beyond the front end of the handle, a member attached to said handle thereat and extending substantially vertically, said lever being pivoted to said member, the lower end of said member being bifurcated, a double bell-crank member having a crank extending between each fork of said bifurcated member, the other crank being attached to said lever, a compression member on the horizontal arm of the crank, the other end of said lever-arm being directly and positively connected to the upper end of said ping.

1,918,694. EMERGENCY TIRE FOR VEHICLES. CHARLES GERBEN, New York, N. Y. Filed Oct. 20, 1932. Serial No. 638,712. 2 Claims. (Cl. 301—39.)



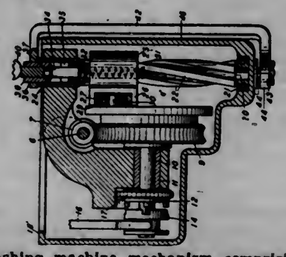
2. An emergency tire, comprising a plurality of units each having an inner rim-forming section of V-shape in cross section, a plurality of spokes extending radially from said rim-forming section, an outer rim-forming section carried by said spokes in radial alinement with its inner section, a flexible tread-forming section carried by said outer section, a threaded stud mounted for swivelling movement on the spoke at one end of each unit, and a nut carried by the spoke at the adjacent end of a companion unit for engagement with said stud thereby to secure the units together in tire-forming relation.

1,918,695. VACUUM CLEANER MOTOR. ALFRED C. GILBERT, North Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Maryland. Filed Feb. 7, 1931. Serial No. 514,118. 9 Claims. (Cl. 172—36.)



1. In a cleaner or like device a closure member for the open end of a casing, lugs extending outwardly from the outer surface of said closure member, posts extending outwardly from the outer surface of said closure member, electric motor parts secured to said posts and a casing surrounding said motor parts and secured to said lugs, said lugs being disposed upon the outer surface of said closure member and spaced outwardly radially from said posts to retain said casing spaced axially from said motor parts.

1,918,696. WASHING MACHINE. REGINALD L. GILBERT, San Francisco, Calif., assignor to Victory Washer Co., Ltd., San Francisco, Calif., a Corporation of California. Filed Dec. 28, 1931. Serial No. 583,470. 13 Claims. (Cl. 74—14.)

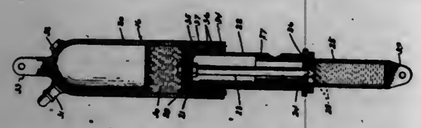


1. A washing machine mechanism comprising an oil-retaining reservoir, a driving shaft mounted vertically within said reservoir, means within the reservoir for imparting rotational movement to said shaft, a link connecting with the upper end of the shaft and extending downwardly without the reservoir, and a driven shaft driven by said link and mounted below the reservoir.

1,918,697. SHOCK ABSORBING DEVICE. RAYMOND L. GRUSS, San Francisco, Calif; Laura E. Gruss, administratrix of said Raymond L. Gruss, deceased, assignor, by mesne assignments, to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 22, 1928. Serial No. 313,986. 6 Claims. (Cl. 267—64.)

1. A shock absorbing device for aeroplanes comprising a pneumatic cylinder, a piston movable therein, a tubular

extension carried by the piston and projecting from the end of the pneumatic cylinder, a hydraulic cylinder telescoping with the tubular extension and containing an incompressible fluid, and means movable with said tubular extension and working in said incompressible fluid



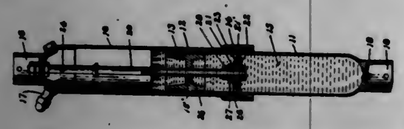
for transmitting the movements of one of said cylinders to the other, whereby movement of the pneumatic cylinder and the hydraulic cylinder with relation to each other in landing and taking off will be accompanied by a different movement of the piston with relation to the pneumatic cylinder.

1,918,698. SHOCK ABSORBING STRUT FOR AEROPLANES. RAYMOND L. GRUSS, deceased, San Francisco, Calif., by Laura E. Gruss, administratrix, San Francisco, Calif., assignor, by mesne assignments, to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 9, 1929. Serial No. 391,429. 7 Claims. (Cl. 267—64.)



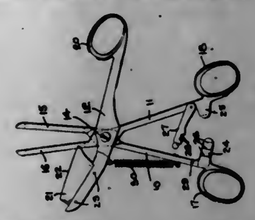
1. A shock absorbing strut for aeroplanes comprising a downwardly projecting open ended cylinder adapted to be attached to the aeroplane structure, an upwardly projecting cylinder with a piston at its upper end slidable within said first cylinder and adapted to be attached to the running gear of the aeroplane, a second downwardly projecting cylinder attached to said first cylinder and arranged concentrically within said first cylinder extending through an opening in said piston and having an end flange slidable within said upwardly projecting cylinder, said second downwardly projecting cylinder having a restricted opening in its lower end and ports arranged intermediate its ends connecting the interior of said second cylinder with the two other cylinders, and packings carried by said first and said second cylinders for confining a compressible and a non-compressible fluid within said cylinders whereby said compressible fluid will function to absorb shocks imposed upon said strut and said non-compressible fluid will act to check rebound.

1,918,699. SHOCK ABSORBING STRUT FOR AEROPLANES. RAYMOND L. GRUSS, deceased, San Francisco, Calif., by Laura E. Gruss, administratrix, San Francisco, Calif., assignor, by mesne assignments, to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 9, 1929. Serial No. 391,430. 4 Claims. (Cl. 267—64.)



4. A hydro-pneumatic shock absorbing strut for aeroplanes comprising a downwardly projecting open ended cylinder adapted to be attached to the aeroplane structure, an upwardly projecting open ended cylinder adapted to move within said first cylinder and be attached to the running gear of the aeroplane, packing means interposed between said telescoping cylinders, a cylinder head member at the open end of said second cylinder having an opening centrally therethrough forming a restricted passageway for non-compressible fluid, a rod attached to said first named cylinder and extending downwardly through the opening in said cylinder head member, a piston on the lower end of said rod within said second cylinder and a valve element carried by said piston through which non-compressible fluid within the second cylinder may flow, said valve element being adapted to cooperate with said restricted opening to retard movement of said second cylinder in one direction.

1,918,700. SURGICAL INSTRUMENT. HYMAN H. HARRIS, Philadelphia, Pa. Filed Aug. 28, 1931. Serial No. 559,821. 5 Claims. (Cl. 128—305.)



3. In a surgical instrument of the character described, in combination, a pair of clamping members arranged in tong-like relation, said members being respectively provided with slotted clamping jaws, and a pivoted blade-equipped member operatively associated with said clamping members, said member being adapted upon actuation thereof to project the blade through the slotted clamping jaws.

1,918,701. ANTIGLARE SHIELD. WALTER S. HAWKINS, GEORGE D. HAWKINS, and WILLIAM J. HAWKINS, Wilkinsburg, Pa. Filed Nov. 5, 1931. Serial No. 573,146. 5 Claims. (Cl. 240—48.6.)

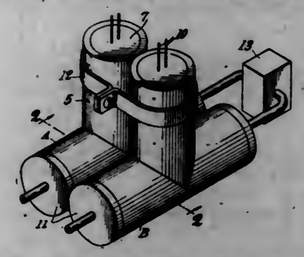


1. An anti-glare shield of the character described, comprising a substantially cup-shaped member fitting on the forward end of an electric light bulb, the approximate lower one-half portion of said member projecting rearwardly beyond the upper one-half portion thereof, the edge margin of said lower portion being turned to form a roll, and a resilient clamping element being fixedly embedded in said roll and having projecting end portions engaging said bulb for holding the said member in place on the latter, the inner side of said roll being disposed inwardly beyond the curved surface of the inner periphery of said member.

1,918,702. CONSTRUCTION OF THERMAL CONDUCTIVITY CELLS. WILLIAM O. HEBLER, Newark, N. J., and WILLIAM F. HAMILTON, New York, N. Y., assignors to Charles Engelhard, Inc., Newark, N. J., a Corporation of New Jersey. Filed Feb. 2, 1931. Serial No. 512,976. 3 Claims. (Cl. 73—51.)

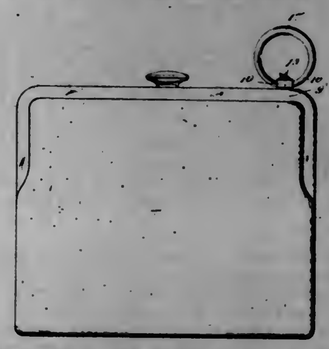
1. In a gas analysis apparatus of the thermal conductivity type, a pair of pipe T's each having a longitudinal

section and a transverse section, electric incandescent lamps mounted in the transverse sections of said T's, the



filament of the lamps serving as resistance heating elements, means for holding the T's closely together, and means for passing gases from one T to the other.

1,918,703. HAND BAG. WILLIAM C. HIERING, Newark, N. J., assignor to J. H. Mergott Company, Newark, N. J., a Corporation of Delaware. Filed Aug. 13, 1931. Serial No. 556,731. 1 Claim. (Cl. 150—33.)



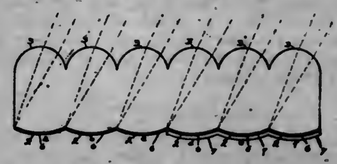
In a handbag, a frame member having a hole therein, a stud loosely positioned in the hole, said stud having a flat elongated head of greater length than the sleeve thereby limiting its movement in one direction through the hole, a sleeve having a transverse passage rotatably mounted on the stud and engaging the frame member, said stud having a reduced portion projecting beyond the sleeve, a washer on the reduced portion of the stud and engaging the sleeve, said reduced portion being upset to securely hold the parts together, and a split ring having its free ends pivotally positioned in the passage of the sleeve.

1,918,704. RAZOR BLADE HOLDER. WILLIAM D. HINCHEY, New York, N. Y. Filed May 14, 1930. Serial No. 452,245. 3 Claims. (Cl. 51—218.)



1. A holder for use in sharpening double-edged safety razor blades comprising a handle portion and a hollow portion having a flat upper surface upon which the blade rests, blade-positioning pins having enlarged heads mounted in the hollow portion and projecting upward loosely through openings in the face of said portion, said pins being adapted to drop by gravity when the holder is held face downward, and a spring pressed slide engageable with and disengageable from the blade to hold or release the same.

1,918,705. PARALLAX PANORAMAGRAM. HERBERT E. IVES, Montclair, N. J. Filed Dec. 20, 1930. Serial No. 503,732. 2 Claims. (Cl. 95—1.)



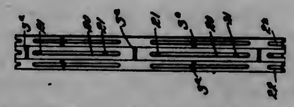
1. A relief picture formed of a sheet of transparent material having accurately opposed convex cylindrical ridges on its front and rear surfaces, the opposing cylindrical ridges having the same axis but the radius of the rear ridges being in the proportion to the radius of the front ridges of unity divided by the refractive index of the material minus one, and the rear ridges carrying a photographic layer embodying panoramic strip images.

1,918,706. APPLICATOR. HERMAN B. LERMER, Newark, N. J., assignor to Hygienic Tube and Container Company, Newark, N. J., a Corporation of New Jersey. Filed Oct. 19, 1932. Serial No. 638,553. 2 Claims. (Cl. 128—230.)



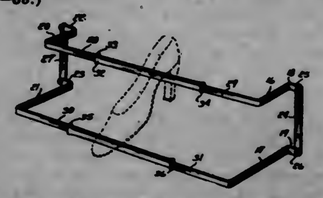
1. A medicament applicator comprising a transparent tube made from a cellulose compound and having a bulbous member at one end, and an engaging member at the opposite end for releasable connection with a collapsible container, whereby pressure upon the container will cause the substance in the container to pass out through the applicator tube.

1,918,707. PISTON RING. JOHN MELLOR, Bay Head, N. J. Filed Mar. 18, 1931. Serial No. 523,473. 11 Claims. (Cl. 74—109.)



1. A piston ring comprising a single ring unit embodying, in combination, an annular mounting element, a series of rigid ring segments mounted around the periphery of said annular mounting element, and resilient means connected with the said mounting element and the said segments for resiliently forcing the segments outwardly.

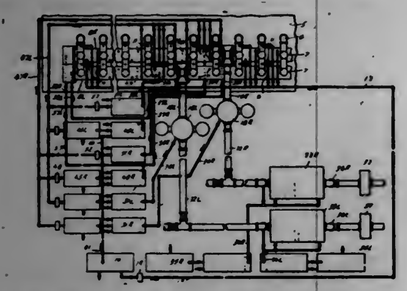
1,918,708. COLLAPSIBLE AND ADJUSTABLE WALL RACK. ROBERT E. MILLER, Bronxville, N. Y. Filed Mar. 1, 1930. Serial No. 432,301. 3 Claims. (Cl. 211—35.)



1. A wall rack comprising a pair of substantially parallel U-shaped strips, the U's being of different depths, the ends of said strips being arranged to lie in a common

plane; a connector between each set of adjacent ends and having its extremities pivoted to said ends; and means for adjusting the length of at least one of the U bases independently of the other, said adjustable base being so constructed with respect to the lengths of the connectors and the length of the other base as to permit adjustment of the entire device into a collapsed form lying in a common plane.

1,918,709. OPERATION OF COKE OVENS AND THE LIKE. STUART PARMELEE MILLER, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 19, 1928. Serial No. 326,924. 3 Claims. (Cl. 202—30.)



1. The method of operating the by-product recovery system of a coal distillation plant which comprises separately collecting the hot coal distillation gases from the earlier and the later stages of the coking operation in individual ovens or retorts of the plant, separately cooling a portion of the gases from one stage to separate tar therefrom, separately collecting the tar and bringing it into intimate contact with another portion of the hot gases from the same stage whereby it is distilled, collecting the cool portion of the gases and the gases and vapors resulting from the distillation together, and collecting the residue from the distillation separately from the tar.

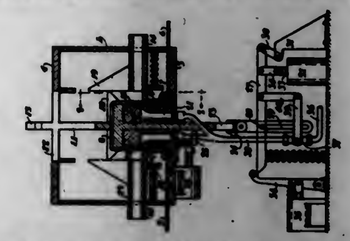
1,918,710. ROAD PAVING FORM. JOSEPH H. MOSEL, Lakewood, and FRANK J. SCHWEMLER, Shaker Heights, Ohio, assignors to The Jaeger Machine Company, Columbus, Ohio, a Corporation of Ohio. Filed Mar. 21, 1929. Serial No. 348,871. 18 Claims. (Cl. 25—118.)



17. In apparatus of the character described, the combination of a member having a base and a substantially upright side mold portion, said side mold portion having means thereon forming a pavement finishing guide, stake boxes secured to said base and said side mold portion, and a load carrying member extending parallel with said finishing guide and detachably supported on said stake boxes.

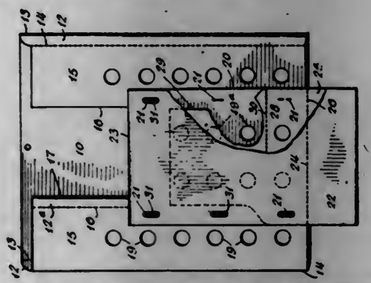
1,918,711. CIRCUIT BREAKER. THOMAS E. MURRAY, Brooklyn, N. Y.; Joseph Bradley Murray, Thomas E. Murray, jr., and John F. Murray, executors of said Thomas E. Murray, deceased, assignors to Metropolitan Device Corporation, a Corporation of New York. Filed Oct. 5, 1928. Serial No. 310,507. 5 Claims. (Cl. 200—151.)

1. A circuit breaker comprising a casing, a fixed contact in said casing, a contact movable into and out of contact with said fixed contact, means for blowing a blast of air between said fixed and said movable contacts upon the separation of said contacts, and a barrier movable between



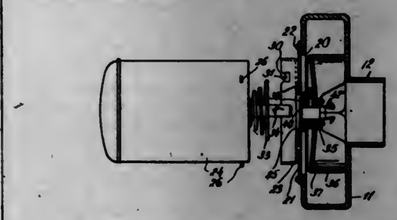
said contacts upon their separation and having means to enclose said blast of air and conduct it outside of said casing.

1,918,712. DISPLAY DEVICE. HAROLD L. MYERS, Morristown, N. J. Filed July 27, 1932. Serial No. 625,076. 9 Claims. (Cl. 211—156.)



1. A display device of the kind described comprising a front member provided with parallel outer and inner rows of openings arranged in vertical alignment to removably receive predetermined articles of merchandise, outer flaps foldably connected with said front member along opposite vertical edges thereof, inner flaps foldably connected with said front member in spaced parallel relation to said outer flaps, rear members extending between and foldably connected with an inner and an outer flap and positioned thereby in spaced relation to said front member to constitute backs for the outer rows of openings and to form foldable sections along opposite vertical edges of said front member to increase the rigidity thereof, said flaps and rear members comprising integral continuations of each other and said front member, and a foldable easel connected with said rear members and arranged to be positioned therewith in spaced relation to said front member to form backs for the inner rows of openings, said easel supporting said front member in display position.

1,918,713. VACUUM CLEANER. ROBERT A. PONSELLE, New York, N. Y. Filed May 26, 1928. Serial No. 280,680. 7 Claims. (Cl. 15—9.)



1. In a floor treating machine, a casing, a motor removably mounted on said casing so that the end of the shaft

thereof extends within the casing, said end being non-cylindrical in form, a rotatable element within the casing having a non-cylindrical opening therein to receive said shaft, spring clip means on said rotatable element engaging said shaft when its motor is mounted on the casing to hold said element in position thereon, and clamping means on said element to clamp said element in position on said shaft.

1,918,714. WINDING MACHINE. ARTHUR F. PYM, Beach Bluff, Mass., assignor to Sibley-Pym Corporation, Lynn, Mass., a Corporation of Massachusetts. Filed Dec. 30, 1932. Serial No. 649,524. 16 Claims. (Cl. 242—3.)



1. A winding machine including means for supporting and rotating a core to be wound, a rotary detector member arranged to run on the periphery of the core and to react with the most recently wound turns thereon, and a transversely displaceable covering for the detector.

1,918,715. METHOD OF MAKING PIPE FITTINGS. WARD M. ROBINSON, Port Huron, Mich., assignor to Mueller Brass Co., Port Huron, Mich., a Corporation of Michigan. Filed July 2, 1931. Serial No. 548,290. 3 Claims. (Cl. 29—157.)



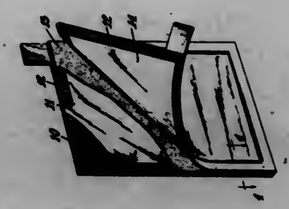
1. The method of forming a seamless fitting from sheet metal comprising forming a circular depression in a sheet of metal, the bottom of said depression being thicker than the sides thereof, and a portion of the side walls of said depression being perpendicular to the plane of said sheet metal, the other portion of said side walls being inclined to said plane, deepening said depression and forming a bulge in said perpendicular wall, expanding said bulge and bottom wall to form the general shape of the finished fitting, trimming the ends of said fitting and finally shaping said fitting.

1,918,716. ELECTRICAL CONDENSER. SAMUEL RUBEN, New Rochelle, N. Y., assignor to Ruben Condenser Company, New Rochelle, N. Y., a Corporation of Delaware. Filed Apr. 29, 1933. Serial No. 668,596. 20 Claims. (Cl. 175—315.)



1. An electrolytic condenser comprising two electrodes, one of which is film formed and a contacting conductive medium between the electrodes comprising a flexible non-fibrous cellulose sheet impregnated with a conductive electrolyte so as to afford a conductive path therethrough.

1,918,717. ELECTRICAL CONDENSER. SAMUEL RUBEN, New Rochelle, N. Y., assignor to Ruben Condenser Company, New Rochelle, N. Y., a Corporation of Delaware. Filed June 28, 1932. Serial No. 618,872. 28 Claims. (Cl. 175—315.)



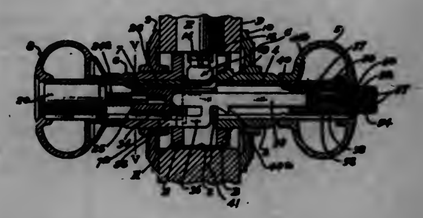
4. An electrical condenser comprising a film-formed metallic electrode, a thin flexible layer of a tacky, film-maintaining composition overlying the film of said electrode and another metallic electrode spaced from said first mentioned electrode by said layer, said tacky film-maintaining composition comprising a cellulose derivative and plasticising component miscible therewith which renders it electrically conductive and maintains the tacky condition thereof.

1,918,718. DART. NOBEL E. SAMSEL, Oakand, Calif. Filed July 28, 1930. Serial No. 471,122. 7 Claims. (Cl. 273—106.5.)



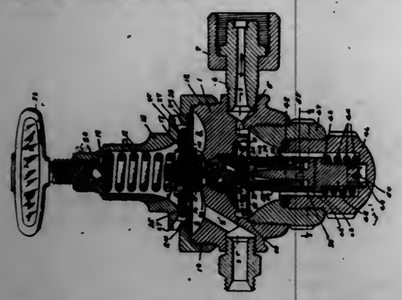
1. A dart comprising a hollow body portion of resilient, compressible rubber, a suction cup carried on one side of said body portion, and a flexible resilient tail portion extending outwardly from the opposite side of said body portion, said tail portion having a bore extending longitudinally therethrough with the ends of the bore communicating with the interior of said body portion and the atmosphere respectively.

1,918,719. DOORLOCK. WALTER R. SCHLAGE, San Francisco, Calif., assignor to Schlage Lock Co., San Francisco, Calif., a Corporation of California. Filed May 26, 1930. Serial No. 455,899. 18 Claims. (Cl. 70—91.)



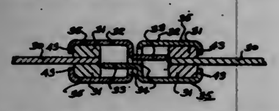
1. In a lock of the character described, a key actuated mechanism on one side of the lock for opening the lock, said key actuated mechanism adapted to be actuated by a plurality of keys including an emergency key, and a key actuated mechanism on the other side of the lock for rendering the first named key actuated mechanism inoperative against all keys except an emergency key.

1,918,720. GAS PRESSURE REGULATOR. LUDWIG W. STETTNER, Oakland, Calif., assignor to Victor Welding Equipment Co., San Francisco, Calif., a Corporation of Delaware. Filed Dec. 2, 1929. Serial No. 411,023. 6 Claims. (Cl. 50—23.)



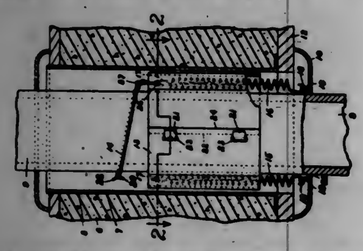
1. In a gas pressure regulator of the character described having high and low pressure chambers and a spring controlled valve positioned therebetween, an annular wall dividing the high pressure chamber into an inner and outer chamber and with a tangential passageway to the inner chamber whereby entering gases take a spiral swirling motion, and means for admitting high pressure gas to the outer chamber for passing around said wall to the inner chamber.

1,918,721. SEPARABLE FASTENER. GIDEON SUNDBACK, Meadville, Pa., assignor to Hookless Fastener Company, Meadville, Pa., a Corporation of Pennsylvania. Filed Feb. 11, 1925, Serial No. 8,340. Renewed Dec. 14, 1932. 22 Claims. (Cl. 24—205.)



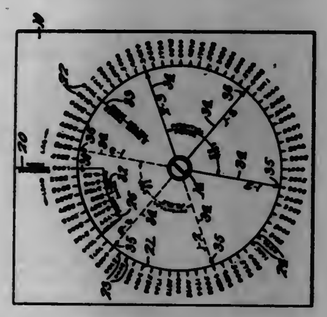
1. A fastener comprising a pair of flexible stringers, locking members secured to each of said stringers substantially opposite one another, each of said members having a projection and recess on its longitudinal edge for engagement with a corresponding recess and projection on the opposite member of the opposite stringer, said projection being provided with guiding surfaces one of which is shaped to facilitate engagement with the recess when the projection is above and the other of which is shaped to facilitate engagement with the recess when the projection is below said recess.

1,918,722. CEILING OR FINISHING PLATE STRUCTURE FOR PIPE SYSTEMS. RICHARD L. SWEENEY, Cincinnati, Ohio. Filed Dec. 2, 1931. Serial No. 578,524. 11 Claims. (Cl. 126—317.)



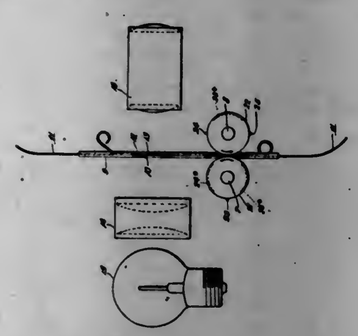
1. In combination a finishing plate and a device for holding same against a wall and in position about a shaft extending through the wall, said device comprising a yielding means having opposite ends, a shaft encircling loop forming member movable along the shaft freely in one direction only, and adapted to grip the shaft upon attempted movement in the opposite direction, and means for connecting opposite ends of the yielding means to a point on the loop forming member and to the finishing plate, respectively.

1,918,723. CALCULATING DEVICE FOR USE WITH THREE-PHASE WATTMETERS. CHARLES HAROLD THAYER, Ashland, Mass. Filed Mar. 20, 1933. Serial No. 661,765. 7 Claims. (Cl. 235—88.)



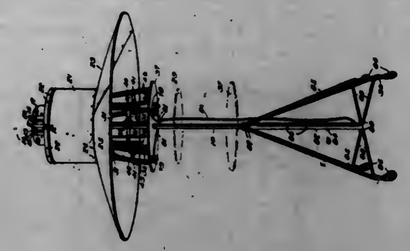
1. A calculating device for use with three-phase wattmeters comprising a stator, and a rotor mounted thereon and pivoted thereto, said stator having delineated thereon a reference mark and a circular ratio scale reading from zero to one in each quarter, and said rotor having delineated thereon a three-phase power factor index and a series of index lines marked to indicate selected wattmeter terminal connections, said index lines being in predetermined angular relation to said three-phase power factor index and each index line cooperating with said circular ratio scale to indicate the power factor in the phase which said index line represents.

1,918,724. PROJECTING MOTION PICTURES IN COLOR. ALEXANDER FERDINAND VICTOR, Davenport, Iowa. Filed Mar. 4, 1929. Serial No. 344,108. 8 Claims. (Cl. 88—16.4.)



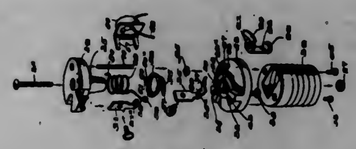
1. The method of producing motion pictures which consists in projecting a picture at a light aperture, intermittently moving the film two frames forward and projecting both pictures, moving the film back one frame and projecting a previously advanced and projected picture, and continuing the method throughout the length of the film.

1,918,725. ARC LIGHTING APPARATUS. JAMES H. WAGENHORST, Detroit, Mich. Filed Jan. 14, 1929. Serial No. 332,470. 28 Claims. (Cl. 176—59.)



1. An arc lighting apparatus comprising a central supporting post, a reflector fixed to and carried by said post, a lamp base slidable on said post, a counterpoise carried by said post and connected to said base, electrode-operating mechanism mounted on said base, movable electrodes depending from said operating mechanism through said base, and stationary electrodes supported below said base in alinement with said movable electrodes.

1,918,726. ELECTRIC LAMP SOCKET. JOHN WEBER, Schenectady, N. Y., assignor to Weber Electric Company, Schenectady, N. Y., a Corporation of New York. Filed July 28, 1928. Serial No. 295,941. 20 Claims. (Cl. 173—354.)

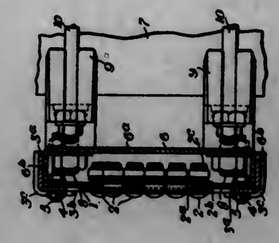


1. In a pull socket, a spindle, a rotatable contact actuating element on said spindle, a movable contact, stationary contacts, a spring having one end anchored, flexible pull means connected to said spring to apply tension to the latter, said spring being directly engageable with a part of said contact actuating element when the spring is moved and tensioned by said pull means, said spring serving to rotate said actuating element when engaged with said part of the latter, the spring being retractible from engagement with said part of the contact actuating element when relieved of the tension applied by said flexible pull means.

10. An electric light socket comprising a pair of spaced porcelain blocks, a spindle formed integrally with one of said blocks and abutting the other block, a pin extending through said spindle and securing together the two blocks, and terminal posts for lead wires fastened to one of said blocks and having ends extending into sockets in the other block.

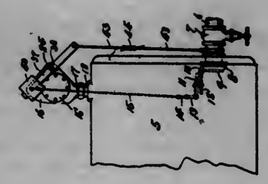
1,918,727. REFLECTOR BUTTON SIGN. WESLEY B. WELLS, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed July 28, 1932. Serial No. 625,259. 4 Claims. (Cl. 40—125.)

1. A sign comprising a front plate provided with a plurality of holes, a letter provided with a plurality of holes which align with the holes in said front plate, and reflector buttons passing through the aligned holes



in said letter and said front plate and provided with means including a detachable locking sleeve for fastening said letter to said front plate.

1,918,728. INTERNAL EMERGENCY SHUT-OFF VALVE FOR TANKS AND ACTUATING MEANS THEREFOR. ABRAM W. WHEATON, Maplewood, N. J., assignor to A. W. Wheaton Brass Works, Newark, N. J., a Corporation of New Jersey. Filed Nov. 27, 1931. Serial No. 577,662. 3 Claims. (Cl. 220—89.)

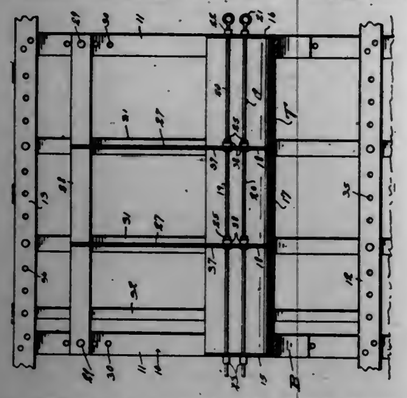


8. Means for controlling an internal emergency shut-off valve of a storage tank, comprising a gas-tight chambered casing having an internally threaded neck, a nipple coupling said neck to said tank to connect said casing interior in communication with the interior of said tank above said shut-off valve, a spindle journaled in said casing, said casing having a stuffing-box means through which an end of said spindle may project exteriorly of said casing, a valve controlling lever on the interior end of said spindle, an internal pull means between said lever and valve, an operating lever on the exterior end of said spindle, said operating lever having oppositely extending arms, one arm having a weight, and a partable tie-member including a fusible link connected with the other arm to hold the weight upraised against gravitation to normally maintain said valve in open condition.

1,918,729. FEEDING TROUGH. LEE A. WHITMER, Wilton Junction, Iowa. Filed Nov. 7, 1931. Serial No. 573,672. 2 Claims. (Cl. 119—72.)

1. A feeding trough comprising a frame, a trough member supported on one side of the frame, a plurality of partitions disposed within the trough whereby to divide the trough into a plurality of feeding sections, said partitions having vertically spaced openings therethrough,

the opening of one partition aligning with the openings of adjacent partitions, a horizontally movable bar for each series of openings carried by the trough and ex-



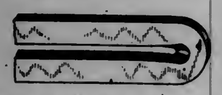
tending through said openings, and means carried by said bar for closing said openings upon movement of the bar in one direction.

1,918,730. PLOW. ELBERT L. WILSON and JOSEPH H. TAYLOR, Athens, Tenn. Filed Aug. 31, 1931. Serial No. 560,452. 8 Claims. (Cl. 97—57.)



1. A plow comprising, a frame, a disc cylinder carrier by said frame, a pair of furrow wheels, and a tongue connected to the frame for drawing same, said disc cylinder and furrow wheels constituting the sole support of the frame when in use in the field.

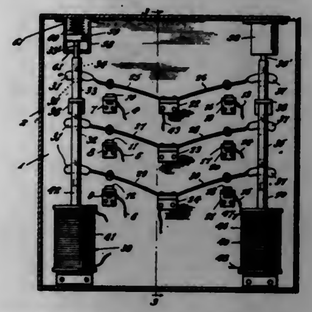
1,918,731. WORKING AUSTENITIC STEELS. ROBERT H. ABORN, East Orange, N. J., assignor to United States Steel Corporation, New York, N. Y., a Corporation of New Jersey. Filed Feb. 17, 1931. Serial No. 516,473. 6 Claims. (Cl. 148—12.)



1. The method of working austenitic chromium-nickel steels which comprises cold working the same within a temperature range adapted to substantially inhibit allotropic crystal transformation therein, said temperature range being in excess of about 100° C. but below the temperature of recrystallization.

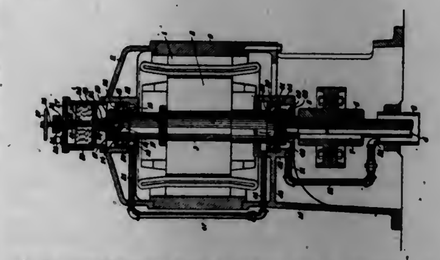
1,918,732. AUTOMATIC ELECTRICAL CUT-OUT. ERVIN ADAMS, Mount Carmel, Pa., assignor of one-half to Martin J. Haney, Mount Carmel, Pa., ten per cent to Samuel W. Blakslee, Pottsville, Pa., and ten per cent to William B. Grove, Mercersburg, Pa., and Hubert V. Grove, Everett, Pa. Filed May 9, 1931. Serial No. 536,252. 7 Claims. (Cl. 200—101.)

1. In an electric cut-out, a vertically disposed panel of insulation, mountings carried by said panel intermediate its width in vertical spaced relation to each other, contacts spaced from opposite sides of each mounting and adapted to have conductors attached thereto, the conductors attached to the contacts at one side constituting line wires and the conductors attached to the contacts at the other side connected to a motor, strips of resilient conductive material rigidly secured intermediate their ends to said mountings and projecting from opposite sides thereof to form resilient upwardly diverging resilient



blades, contact buttons secured to the intermediate portions of the blades and extending over the first mentioned contacts and normally spaced therefrom, pull bars of insulation extending vertically and each slidably receiving the ends of the adjacent blades at one side of said mountings, and electrically energized elements operatively connected with said bars to move the bars downwardly against the tension of the blades and effect engagement of said blades with said contacts when the said elements are energized.

1,918,733. LUBRICATING SYSTEM FOR VERTICAL PUMPS. CARL N. BENSON, Scarsdale, N. Y., assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 27, 1931. Serial No. 577,435. 2 Claims. (Cl. 308—168.)

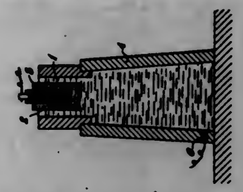


2. In combination with a casing and a vertical shaft therein, a bearing mounted at the upper portion of the shaft, there being a vertical hole bored in the upper end of the shaft, a reservoir mounted on the casing above the shaft, a tube extending from the bottom of the reservoir and depending into such hole, and an oil well surrounding the bearing, the organization being such that oil may descend from the reservoir through such tube into the vertical hole and rise therein about the tube and pass out into the oil well.

1,918,734. MEANS FOR CASTING METALS. EMILIEN BORNAND and HANS ARNOLD SCHLAEPFER, Geneva, Switzerland. Filed Feb. 9, 1931, Serial No. 514,582, and in Switzerland Aug. 26, 1930. 1 Claim. (Cl. 219—40.)

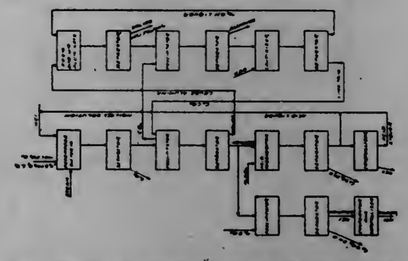
An electric heater for regulating solidification of molten metal cast in a mold, comprising a body adapted for immersion into the molten metal in the mold and including

a core of electrically well conducting material and an outer refractory layer of an electric resistance material becoming conductive at high temperature, said outer refractory layer separating the well conducting core from the metal in the mold, means on said core for connecting the core to a source of electric current, and means for



connecting the metal in the mold to said source of current, whereby the circuit of the source will be closed upon molten metal making contact with said layer of resistance material and a current will flow from said core across the layer to the metal in the mold to thereby heat said resistance material.

1,918,735. TREATMENT OF ALUMINOUS MATERIALS. LINN BRADLEY, Montclair, N. J., and EDWARD P. MCKEEFE, Plattsburg, N. Y., assignors to Bradley-McKeefe Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 29, 1929. Serial No. 389,312. 17 Claims. (Cl. 23—143.)



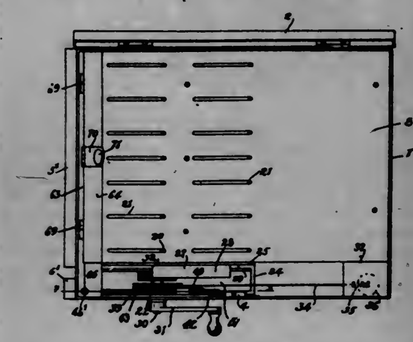
1. The method of producing purified alumina from aluminum-bearing materials which comprises treating such materials with an aqueous solution of an acid which forms with calcium and aluminum water soluble normal salts and thereby producing a solution, containing an aluminum compound of such acid, separating the solution from undissolved matter, treating the solution by means of a compound of calcium capable of precipitating a basic aluminum compound, while leaving the calcium in solution in the form of a soluble compound, separating the resulting solution from the precipitated compound of aluminum dissolving the aluminum compound in liquor containing sodium hydroxide to form sodium aluminate, separating the sodium aluminate solution from undissolved matter and treating the sodium aluminate liquor to precipitate a basic aluminum compound.

1,918,736. OIL STOP ELECTRIC CABLE JOINT. FRANK A. BROWNELL, Metuchen, N. J. Filed Aug. 7, 1929. Serial No. 384,208. 3 Claims. (Cl. 173—268.)



1. In a cable joint, a barrier unit comprising, an insulating barrier plate, an electric conductor extending through an aperture in said barrier plate, an insulating bushing surrounding said conductor, said bushing being threaded through the aperture in said barrier plate, and having a shoulder to abut a side of said barrier plate to effect a tight juncture with the latter, and a metallic connecting ring threaded upon said barrier plate and being adapted for connection to the sheathing of said cable joint.

1,918,737. VENDING MACHINE. WILLIAM B. BRUNTON, Winnipeg, Manitoba, Canada. Filed Feb. 16, 1931. Serial No. 515,993. 1 Claim. (Cl. 312—55.)



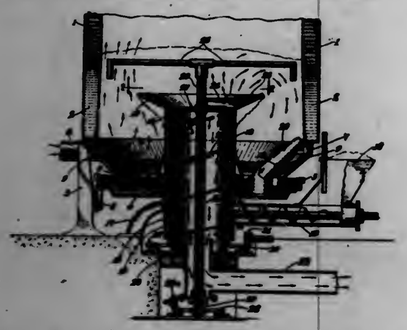
In combination, a closed casing receiving a stack of flat lying papers, said casing being provided towards the bottom and in the front wall thereof with a paper outlet passage, a stationary false bottom crossing the lower part of the casing and supporting the stack of papers with the lowermost paper of the stack opposing the outlet passage, said false bottom being provided with a plurality of slots, a wheeled carriage underlying the false bottom and riding on the bottom of the casing and movable thereon towards and away from the passage, a rack bar secured to one side of the carriage, a pinion rotatably carried by the casing and continuously engaging the rack bar, an exterior crank for rotating the pinion, a winding pulley turning with the pinion, a weighted pulling line attached to the pulley, spaced cross bars crossing the carriage and having their ends provided with corners lugs pivotally attached to the carriage, a row of upstanding piercing prongs carried by the rear edge of each bar and projecting upwardly through the slots in the false bottom and engageable with the lowermost paper of the stack and stop pins carried by the carriage and engaging the forward corners of the bars to prevent the rotary movement thereof in a clockwise direction.

1,918,738. EGG BEATER. MATTHEW M. L. BURRELL, Milheim, Pa. Filed May 2, 1932. Serial No. 608,799. 3 Claims. (Cl. 259—128.)



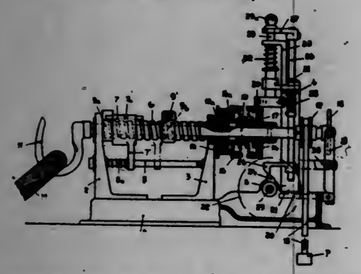
1. An egg beater comprising a spiral shaft, a handle rotatably receiving one end of the shaft, an agitator on the opposite end of the shaft, and a slide for rotating the shaft comprising a helical length of wire having a convolution intermediate the ends thereof flattened to provide an oblong loop adapted to snugly conform to the contour of the shaft.

1,918,739. GASIFICATION APPARATUS. WILLIAM B. CHAPMAN, Jackson Heights, N. Y. Filed July 30, 1929. Serial No. 382,222. 3 Claims. (Cl. 202—93.)



2. An apparatus for gasifying fuel, having firebed enclosing walls substantially symmetrically disposed with regard to a central vertical axis, means for feeding air to an annular zone in the firebed, a fuel underfeed device operating substantially concentrically with said axis for feeding fuel to the central portion of the firebed, and an off-take pipe for low temperature distillates enclosed by said fuel feeding device.

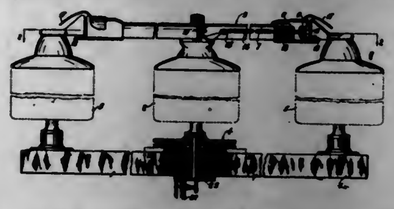
1,918,740. HANK TWISTING MACHINE. VITTORIO CAZZADORI, Rivarolo Canavese, Aosta, Italy. Filed Aug. 18, 1932, Serial No. 629,343, and in Germany July 21, 1931. 8 Claims. (Cl. 117—7.)



1. Hank twisting machine comprising a bed plate, a hollow steep-pitched screw rotatably mounted on said bed plate, a shaft mounted axially displaceable but not rotatable in said steep-pitched screw, an operating member loosely mounted on said screw and having clutch teeth, a movable clutch member fixed to said shaft, a hook at one end of said shaft adapted to receive the hanks the pull whereon produces the displacement of said shaft and therefore the clutching in of the clutch teeth of said operating member and said movable clutch member and the operative connection between said shaft and said operating member for producing the rotation of said shaft and said screw, and means for automatically disconnecting the movable clutch member from the operating member after a predetermined number of turns of the screw.

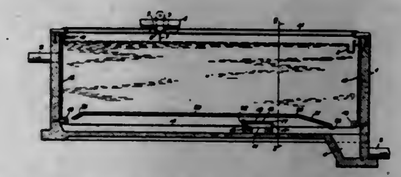
1,918,741. DISCONNECTING SWITCH. ACHILLE BAGNAGATTI DE GIORGI, Milan, Italy. Filed Apr. 8, 1929, Serial No. 353,503, and in Italy Apr. 12, 1928. 2 Claims. (Cl. 200—48.)

1. A switch of the class described comprising a pair of spaced stationary insulators having stationary contacts thereon, a rotatable insulator between the stationary insulators, an arm rotatable with the rotatable insulator having guide bodies at its ends, pistons slidably guided in said bodies and having brushes movable therewith, springs in the cylinders urging said brushes from yieldable engagement with the stationary contacts, cranks associated with the rotating insulator, links connecting the pistons and cranks, and means for rotating the rotatable insulator



for sliding the pistons to cause the brushes carried thereby to move in an axial direction to disengage the stationary contacts before swinging movement is imparted to the arm and to swing the arm only after full disengagement of the contacts and brushes.

1,918,742. SETTLING TANK. HENRY E. ELROD, Houston, Tex. Filed June 15, 1931. Serial No. 544,668. 8 Claims. (Cl. 209—208.)



5. In a settling tank, a carriage adapted to travel along the tank above the liquid level, a skimming fin depending from said carriage, a buggy adapted to travel along the bottom of the tank and having a short length in the direction of its travel, a scraping blade on said buggy for removing sediment from the bottom of the tank, and connections between said carriage and buggy whereby the latter derives its motion.

1,918,743. VALVE GRINDER. FRED H. ETZENHOUSER, ROBERT C. MURPHY, and FRANK P. TANDY, Independence, Mo. Filed May 9, 1930. Serial No. 451,040. 5 Claims. (Cl. 51—29.)

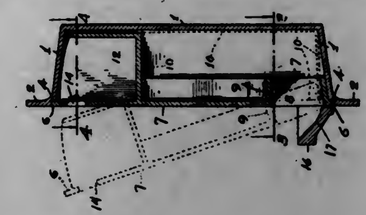


1. A valve grinder consisting of a shank, a vacuum cup mounted upon said shank, and a centering device loosely surrounding said vacuum cup to center the latter upon the valve and permit said shank to be moved to various angular positions with respect to the plane of the vacuum cup and said centering device.

1,918,744. RECEPTACLE. ANTON FAZEKAS, San Francisco, Calif. Filed Dec. 21, 1932. Serial No. 648,253. 3 Claims. (Cl. 206—31.)

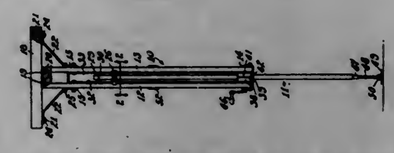
1. A match dispensing and receiving receptacle comprising a housing provided with a flange for engaging a wall adjacent a wall recess to support said housing within said recess and the front portion of said receptacle substantially flush with said wall, and likewise provided with an internal shoulder surrounding the front edges of the

interior of said housing; a dispensing shelf projecting from the lower surface of said interior; and a member detachably mounted within said housing and provided with a dispensing opening in the lower end thereof, a used match compartment and opening thereinto in the upper portion of said member, and a match-box support-



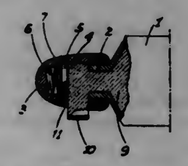
ing lug arranged above the dispensing opening of the member to support a box of matches above said dispensing opening said member being provided with a surrounding flange on the front thereof to engage the internal shoulder of the housing whereby the front face of said member may be held flush with the face of the housing when said member is in closed position.

1,918,745. ADJUSTABLE SHORE. JOE G. FORSYTHE, Oliver, Ill. Filed Apr. 24, 1931. Serial No. 532,489. 6 Claims. (Cl. 248—2.)



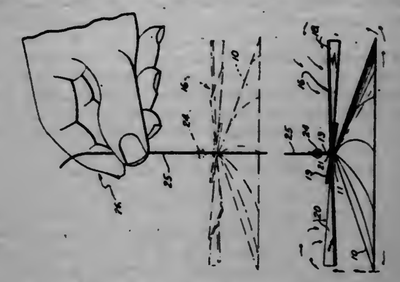
1. An adjustable shore comprising an upper section and a lower section, said upper section including a pair of spaced elements and the upper end of said lower section being slidable between said elements, one of said elements being formed with a series of notches, and a pawl carried by said upper end of said lower section and cooperable with said notches normally to hold said upper section against downward movement with respect to said lower section, said pawl being formed to wedge against the other of said elements when engaged in one of said notches.

1,918,746. SELF-CLOSING PASTE TUBE. JOHN GAGLIO, Pittsburg, Calif. Filed Oct. 26, 1931. Serial No. 571,081. 1 Claim. (Cl. 221—60.)



In a collapsible tube having an outlet, a hollow cap over said outlet, said cap having a side port therein beyond the outlet to provide communication therewith, a spring pressed valve disc movable in the cap axially thereof and across the port to normally engage and close the outlet and to open communication between the port and outlet when such disc is in its outer position, and a shoulder in the cap to limit the outward movement of the valve so that the inner face of the valve will lie substantially flush with the edge of the port farthest from the outlet when the disc is in its outer position.

1,918,747. TOY WINDMILL. JOHN HAMMARSTROM, Bridgeport, Conn. Filed Dec. 22, 1932. Serial No. 648,357. 12 Claims. (Cl. 46—14.)



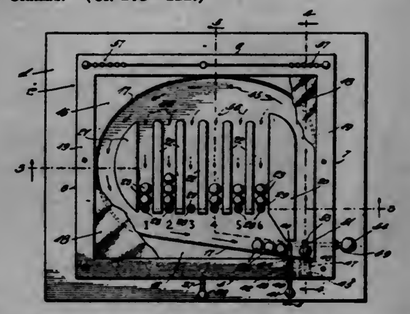
1. In a toy windmill, a fan, means rotatably mounting said fan, a shield at one side of the fan to deflect air and prevent it impinging fully against the sides of the vanes of the fan adjacent said shield on movement of the shield and fan in one direction, and means to reciprocate the shield and fan together.

1,918,748. SHOULDER STRAP. AGNES HAWKINS, Chicago, Ill. Filed Dec. 5, 1931. Serial No. 579,236. 7 Claims. (Cl. 241—12.)



1. A shoulder strap of the kind described and comprising a strip of thin material having substantially parallel side edges, and a second strip formed of rick-rack tape, the two strips sewed together along their longitudinal center lines, and the lateral edges of the projections on the rick-rack tape extending substantially to the lateral edges of the first-mentioned strip.

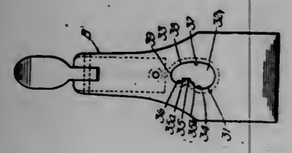
1,918,749. GAME. RAYMOND A. HENNINGS, New Orleans, La. Filed Oct. 13, 1931. Serial No. 568,629. 2 Claims. (Cl. 273—122.)



1. A game comprising a casing having an inclined upper wall, obstacles arranged in the upper wall, partitions formed in the upper wall between the obstacles whereby compartments are formed, a cover spaced from the upper wall, means for normally holding miniature balls in the compartments and comprising a shaft fulcrumed to the under side of the upper wall, arms mounted on the shaft; said arms having upstanding portions that pass through the wall to engage the balls, an arm extending rearwardly from the shaft and having an adjustable weight thereon, a comparatively large arm forwardly reaching from the shaft and having a disk mounted on its free end, a plunger

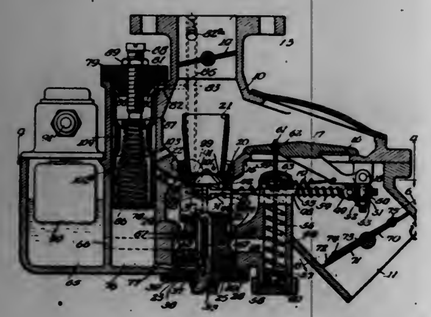
normally engaging the disk to hold the upstanding portions of the first arms of the shaft upwardly; said plunger being adapted on inward movement to force the disk downwardly to move the upstanding portions downwardly to release the balls from the compartments, a stop plunger projecting into the path of the balls and when actuated adapted to permit but one ball to move downwardly at a time, a shooting chamber provided with a recess into which the stop plunger permits one of the balls to pass, a mallet having an arm, a shaft secured to the arm and a handle secured to the shaft whereby rotary movement of the handle will cause the mallet to drive the ball out of the recess of the shooting compartments.

1,918,750. PLANE. EARL V. HIGBEE, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed July 18, 1932. Serial No. 623,159. 4 Claims. (Cl. 145—16.)



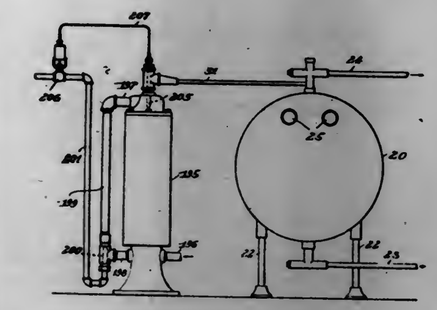
1. A clamping lever for planes having a substantially kidney-shaped slot, said slot having an enlarged portion and restricted portion and an inwardly extending projection on one wall of said slot and disposed between said portions, said projection having an inwardly and rearwardly facing shoulder.

1,918,751. CARBURETOR. HORACE H. HUBER, Indianapolis, Ind., assignor to Champion Carburetor, a Trust. Filed Mar. 25, 1932. Serial No. 601,187. 7 Claims. (Cl. 261—46.)



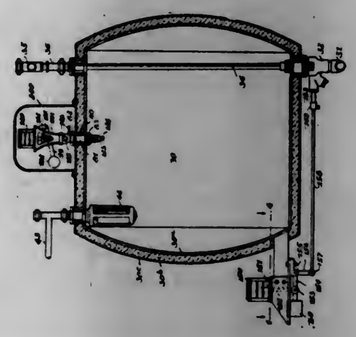
1. In combination, a carbureting chamber having a fuel nozzle and an air supply for atomizing fuel from the nozzle into the chamber, means responsive in its operation to the drop in engine suction for displacing a portion of the fuel from the supply and causing the same to augment the normal supply of fuel from the nozzle, and means controlled by the operation of the last said means for causing an additional supply of air to be directed into said chamber, the second recited means being rendered inactive when the engine throttle is wide open or closed.

1,918,752. LIQUID TREATING APPARATUS. JENS N. JACOBSEN, Rochester, N. Y., assignor to The Pfaudler Co., Rochester, N. Y., a Corporation of New York. Filed Oct. 14, 1930. Serial No. 488,689. 10 Claims. (Cl. 141—1.)



1. Milk pasteurizer holding apparatus comprising, in combination, a milk holding tank having a milk inlet and a milk outlet, spray means within said tank for spraying a washing liquid into said tank, discharge means for said washing liquid, and mechanism for concomitantly controlling said spray means and said discharge means.

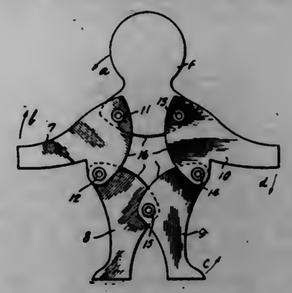
1,918,753. FLUID TREATING APPARATUS. JENS N. JACOBSEN, Rochester, N. Y., assignor to The Pfaudler Co., Rochester, N. Y., a Corporation of New York. Filed Oct. 14, 1930. Serial No. 488,690. 15 Claims. (Cl. 141—1.)



1. Fluid treating apparatus including a fluid holding tank, mechanism for filling and emptying said tank, and spray means within said tank, characterized by means including an electric switch and an actuating cam therefor for operating said spray means automatically subsequently to each emptying of the tank, to wash the inner surface thereof.

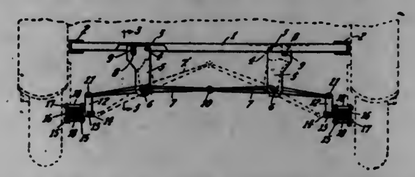
1,918,754. PUZZLE. WALTER JOHNSON, Mount Dora, Fla., assignor of one-half to Charles E. Perkins, Mount Dora, Fla. Filed Jan. 23, 1932. Serial No. 588,268. 6 Claims. (Cl. 273—155.)

1. A puzzle comprising five sections, pivots connecting each of said sections to two other of said sections, said pivots arranged equidistantly apart, each of said sections having a curved edge and the curved edges of all of the sections being struck on the same radius, each of said sections shaped to represent a part of a figure which the puzzle is to represent when extended, said sections adapted to be collapsed to have their curved edges form an approximate circular line defining the outer edge of the collapsed puzzle, and the greatest length of each section



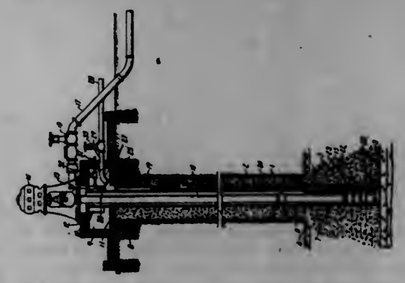
being not more than the diameter of said circle whereby the sections do not extend out of said circuit when the puzzle is collapsed.

1,918,755. SPRING SUSPENSION FOR VEHICLES. FRANK H. JONES, Boise, Idaho. Filed Mar. 21, 1932. Serial No. 600,255. 3 Claims. (Cl. 267—11.)



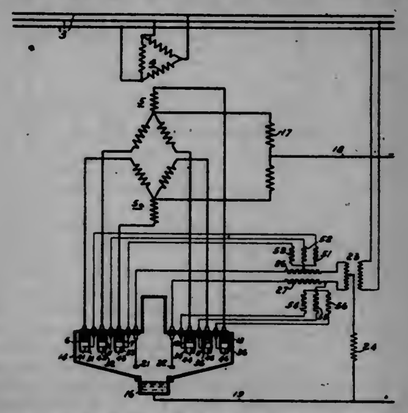
1. An equalizer mechanism comprising a supporting member adapted to be secured to a vehicle frame, a pair of fulcrum supports mounted in said main support and inwardly of the ends thereof, said supports being offset with respect to their respective points of support, and being provided with resilient members adapted to engage said main support, a pair of levers, each of which is fulcrumed at the bottom of said supports and mutually fulcrumed at their inner ends whereby to form a compound lever, and shackles fulcrumed at the free ends of said levers, said shackles serving as fulcrums for clamping devices adapted for engagement with the vehicle spring.

1,918,756. APPARATUS FOR CLEANING THE FILTER BED OF A WELL. PHILIP S. JUDY, Kansas City, Mo. Filed May 25, 1932. Serial No. 613,483. 4 Claims. (Cl. 166—1.)



1. In combination with a well including a filter bed and a casing having an apertured portion extending into the filter bed, means for removing detritus from said filter bed and the apertures in said casing including a detritus discharge conduit extending into the filter bed and terminating adjacent said apertured portion of the well casing, a valve in said conduit for closing flow through the conduit, a pipe associated with the conduit for supplying air pressure to said filter bed externally of said casing, and a valve in said air pipe for controlling flow of air to said filter bed to dislodge said detritus from the filter bed and the apertured portion of the casing when the first named valve is closed and to effect flow of the loosened detritus through said conduit when the valve in said conduit is opened to relieve said air pressure.

1,918,757. ELECTRIC CURRENT RECTIFIER-CONTROL SYSTEM. HANS KELLER, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a Joint-Stock Company of Switzerland. Filed Jan. 2, 1932, Serial No. 584,407, and in Germany Dec. 22, 1930. 7 Claims. (Cl. 175—363.)



4. In an electric current rectifying system, an alternating current supply line, an electric current rectifier of the metallic vapor arcing type having main anodes with associated control electrodes and having excitation anodes and a cathode, a transformer connecting the main anodes with said supply line, a second transformer connecting the said supply line with the excitation anodes and with the control electrodes, current maintaining means connecting the cathode with the second said transformer, current limiting means connecting the excitation anodes with the second said transformer, and current limiting means connecting the control electrodes with the first said current limiting means.

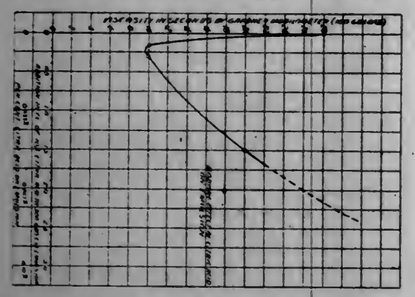
1,918,758. GAS VALVE. JOSEPH V. KINDL, Cleveland, Ohio, assignor to The W. J. Schoenberger Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 29, 1932. Serial No. 625,571. 6 Claims. (Cl. 251—165.)



1. A valve comprising a valve body having a valve seat and a hollow extension aligned with said seat, a valve having a slotted hollow extension rotatably confined within said seat, a shaft slidably and non-rotatably interengaged with said extension of said valve, locking means

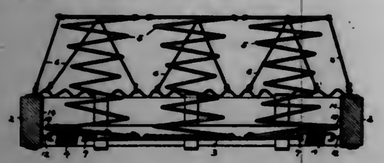
slidably, tiltably, and non-rotatably inter-engaged with said extension of said valve for locking said shaft and valve against rotation, cover means non-rotatably attached to said hollow extension of said body, a cut out portion in said cover means co-operating with said locking means in locking operations, and yielding means within said hollow extension and guided thereby for forcing said locking means and said shaft continuously toward said cover means away from said valve, said locking means being disengageable by axial shifting of said shaft.

1,918,759. PROCESS OF TREATING EMULSIONS. LESTER KIRSCHBRAUN, Leonia, N. J., assignor, by mesne assignments, to The Flintkote Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 24, 1929. Serial No. 388,061. 1 Claim. (Cl. 134—1.)



The process of treating relatively stiff emulsions of the bitumen-pitch type of paste-like consistency, and having a bentonite emulsifying agent to render the emulsion highly suspensible the step which comprises subjecting said suspensible emulsion to treatment with an agent having in its molecular structure at least one hydroxyl group or at least one carboxyl group or both hydroxyl and carboxyl groups and having the capability of both increasing its mobility, without the addition of a diluent, and of imparting to the emulsion a "long" bodied consistency.

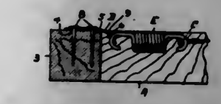
1,918,760. RESILIENT BOTTOM FOR UPHOLSTERED CHAIRS, BOX SPRINGS, AUTOMOBILE SEATS, AND COUCHES, ETC. JACOB KRONHEIM, Cleveland, Ohio. Filed Aug. 23, 1930. Serial No. 477,370. 5 Claims. (Cl. 155—179.)



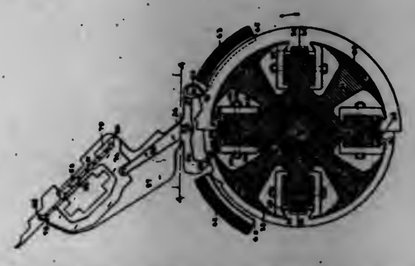
1. In a chair or couch etc., a frame having brackets with projecting portions, a base member of woven material having a wired border edge extending over and resting directly upon said projecting portions, a wire member secured to said material and arranged in spaced relationship parallel to said border edge, suspension springs connected with said brackets and said wire member, and a set of springs seated vertically upon said base member including said wire member.

1,918,761. RESILIENT BOTTOM FOR UPHOLSTERED FURNITURE. JACOB KRONHEIM, Cleveland, Ohio. Filed Apr. 6, 1931. Serial No. 528,022. 5 Claims. (Cl. 155—179.)

1. In resilient bottoms for upholstered furniture an open frame, a series of narrow and curved brackets made of thin resilient metal and secured to the top of said frame and extending inwardly a substantial distance in respect thereof, coiled springs attached to the free end of said brackets and a flexible bottom member connected to and stretched between said springs, each of said brackets being in their longitudinal axes at distanced points attached to said frame to create an inherent tension in said brackets while straightening the brackets where secured to said frame and the free end of each bracket being perforated to facilitate attachment of a spring.

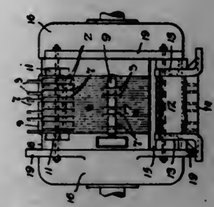


1,918,762. KNITTING MACHINE. ROBERT H. LAWSON, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed July 7, 1930. Serial No. 466,061. 8 Claims. (Cl. 66—75.)



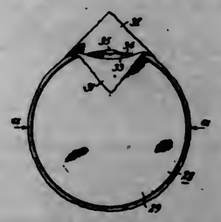
1. In a knitting machine, a needle bed and needles mounted therein, oppositely extending butts provided upon the needles which butts are adapted to be engaged by cams, means for positioning the needles so that the needles or some of them will be in such a position that the butts extending in one direction may be engaged by cams, or in such a position that the other mentioned butts may be engaged by cams, or for positioning some at least of the needles where they will be idle.

1,918,763. DYNAMO-ELECTRIC MACHINE. JAMES F. LINCOLN, East Cleveland, and ERWIN H. DARESH, Euclid, Ohio, assignors to The Lincoln Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 31, 1928. Serial No. 296,525. 3 Claims. (Cl. 171—252.)



3. In a dynamo-electric machine, a laminated stator, end rings on opposite sides of said laminated stator, and means for supporting said stator in assembled relation, said means comprising bars extending from one end ring to the other across said laminated stator and welded to said end rings and surface welded to said laminations, said means being the only agency serving to maintain the laminations in such assembled relation.

1,918,764. VACUUM CLEANER. GUSTAF LJUNGQUIST, Stockholm, Sweden, assignor to Electrolux Corporation, Dover, Del., a Corporation of Delaware. Filed Feb. 28, 1933, Serial No. 658,919, and in Germany Mar. 10, 1932. 12 Claims. (Cl. 183—51.)



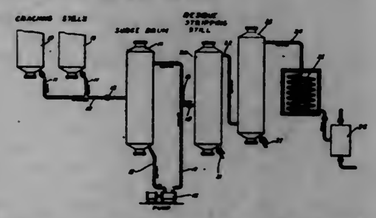
11. A filter comprising a circular cloth bag member formed with an opening along a portion of the periphery thereof, and a resilient frame insertable into said bag member, said frame comprising a strip of resilient material bent to form a closed figure, the ends of said strip having sliding engagement with each other whereby said frame is adapted to be compressed sufficiently for passage through said opening and is adapted to expand and hold said bag member in extended state.

1,918,765. VERTICAL CARD FILING CABINET. LUIGI LOMBARDINI, Turin, Italy. Filed Mar. 28, 1930, Serial No. 439,789, and in Italy Mar. 29, 1929. 9 Claims. (Cl. 129—16.)



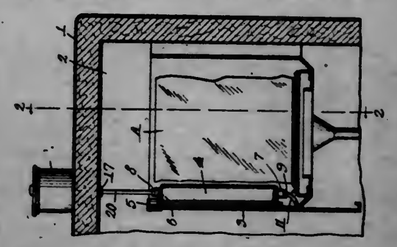
2. In a vertical filing cabinet of the class specified, comprising a bottom formed with a longitudinal groove, a plurality of partitions insertable within said cabinet, spacing devices connectible to said partitions slidably insertable within said groove, said spacing devices maintaining adjoining partitions at a predetermined distance from one another, and spacing brackets extending from the upper part of said partitions, at each side thereof.

1,918,766. TREATMENT OF HYDROCARBON OILS. CHARLES W. MACKAY, Tulsa, Okla., assignor to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed May 19, 1930. Serial No. 453,463. 2 Claims. (Cl. 196—49.)



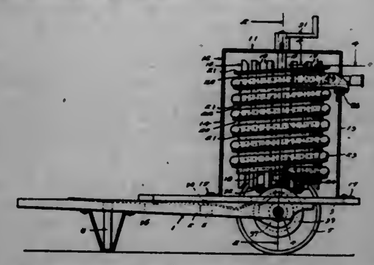
2. In the conversion of higher boiling hydrocarbon oils into lower boiling ones wherein a residue developed in the cracking of the oil under superatmospheric pressure is removed from the cracking still and passed to a low pressure zone for autogeneous distillation, the process that comprises withdrawing the residue from the cracking still in a confined stream and delivering the residue, before it is passed to the low pressure auto-distillation zone, to an enlarged chamber from which no separate vapor fraction is withdrawn and wherein a body of the residue is collected and maintained under a fluctuating pressure intermediate that of the cracking still and the auto-distillation zone, continuously withdrawing liquid from said enlarged chamber and passing it back to said chamber to thus establish and maintain a constant circulation of the liquid tending to maintain coke particles in suspension therein and withdrawing from the liquid thus in cyclic movement a regulated quantity thereof and directing the liquid thus withdrawn to the auto-distillation zone.

1,918,767. WATER COOLER. VERNON M. MAINE, Rhinelander, Wis., assignor to Rhinelander Refrigerator Co., Rhinelander, Wis. Filed Mar. 24, 1932. Serial No. 600,990. 4 Claims. (Cl. 62—44.)



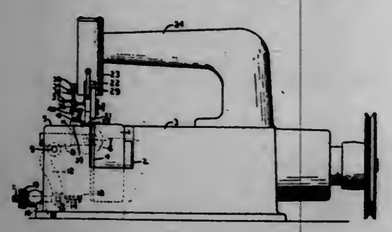
1. The combination with a refrigerator having an opening in the top thereof, of a resilient coupling tube removably mounted in the opening, collapsible means integral with the ends of the tube for lapping and engaging opposed faces of the apertured portion of the refrigerator, a feed tube supported by and depending from the coupling tube, a reservoir removably mounted on the refrigerator, an outlet nipple depending therefrom and removably seated in the coupling sleeve, and a tank detachably supported in the refrigerator and detachably connected to the feed tube, said coupling tube constituting a sealing connection between the nipple, feed tube and refrigerator.

1,918,768. HOSE REEL AND DRIER. VICTOR MARKKULA, Aberdeen, Wash. Filed Feb. 25, 1931. Serial No. 518,269. 3 Claims. (Cl. 242—88.)



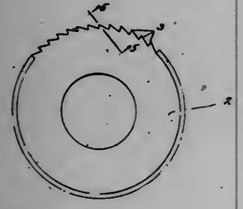
1. A hose reel of the character described comprising a wheeled platform including an axle, a vertical shaft rotatably mounted on the platform, means connecting said vertical shaft with said axle to transmit motion therefrom to the shaft, a reel carried by the shaft, a hose guide arranged spirally about said reel and formed from a member of angular cross section, one flange thereof being extended laterally from the reel and the other flange extending downwardly along the side thereof, the convolutions of said guide being spaced to permit the positioning of a hose between the lateral flange of one convolution and the downwardly extending flange of another convolution, and a vertically movable member having engagement with the lateral flange of the spiral guide and formed to provide a guide tube through which a hose may pass to the reel.

1,918,769. FINISH REMOVING MACHINE. NICHOLAS W. MATHEY, Boston, Mass. Filed Aug. 17, 1929. Serial No. 386,594. 22 Claims. (Cl. 69—9.5.)



1. A machine for removing surface finish from a shoe-upper part, said machine comprising a rotary finish removing cutter, work feeding means engageable with the finished surface of the work and having its work engaging element disposed at a fixed and predetermined distance from the cutter, means for maintaining the work engaging element of the work feeding means substantially at this fixed and predetermined distance from the cutter during operation of the machine on material of variable thickness, and a yielding presser-foot engageable with the opposite side of the work and movable toward and from the feeding means in accordance with variations in thickness of the work.

1,918,770. GIN SAW BLADE AND METHOD OF MAKING SAME. ROBERT W. MCLEAN, Bridgewater, Mass., assignor to Carver Cotton Gin Company, Bridgewater, Mass., a Corporation of Massachusetts. Filed Mar. 22, 1928. Serial No. 263,832. 4 Claims. (Cl. 76—112.)



1. A gin saw blade having an accurately flat and smoothly polished annular body portion provided with projecting teeth at its outer edge, said body portion possessing the characteristics of cold rolled steel, being of substantially uniform thickness throughout and free from hammer-scale, the entire body portion, together with the teeth, being of substantially uniform composition and of fine crystalline structure substantially free from internal stress, the teeth being hard, tough and having their points in permanent and accurate alignment.

3. That method of making gin saw blades which comprises as steps preparing an accurately flat and smoothly polished annular blank of uniform and accurately predetermined thickness, homogeneous composition, free from surface scale and of fine and dense crystalline structure, and substantially devoid of internal strains in a single operation by punching it from cold rolled steel, shaping the outer edge of the blank to form teeth, and filing said teeth to pyramidal shape, thereby producing a stiff blade of standard and predetermined thickness whose body and teeth are of uniform texture, the teeth being tough and capable of taking and retaining a fine edge, the blade being adapted for assembly in series with similar blades and interposed spacers of standard thickness to form a saw cylinder of standard and accurate dimensions.

1,918,771. SNOWPLOW. EDWARD B. MEYER, Newburgh, N. Y. Filed Apr. 16, 1929. Serial No. 355,490. 7 Claims. (Cl. 37—42.)



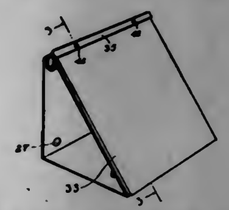
1. A snow plow structure for motor vehicles, comprising a double edged snow engaging blade element, a propelling frame connected forwardly to the blade and rearwardly having means for connection to a motor vehicle, the blade presenting one edge to the ground and transversely of the frame and at an angle to the direction of progress of the vehicle, to throw the snow to one side of the vehicle path, the frame being adapted to be disconnected from the vehicle and turned upside down and reconnected thereto to present the other edge to the ground and to throw the snow to the other side, the frame having a plurality of rotational bearing means axially vertically disposed, a stem rotatably mounted in each bearing means, and engaging the frame, a ground-engaging means on the stem for supporting the weight of the blade and means associated with the stem and frame to adjust the height of the blade above the ground and the stems being adapted to be mounted in the bearings in either of opposite directions optionally to optionally support either edge of the blade.

1,918,772. APPARATUS FOR MANUFACTURING TUBING. JOHN W. MOON, Butler, Pa., assignor, by direct and mesne assignments, to Fretz-Moon Tube Company, Inc., Butler, Pa., a Corporation of Pennsylvania. Filed July 11, 1927. Serial No. 204,712. 4 Claims. (Cl. 80—11.)



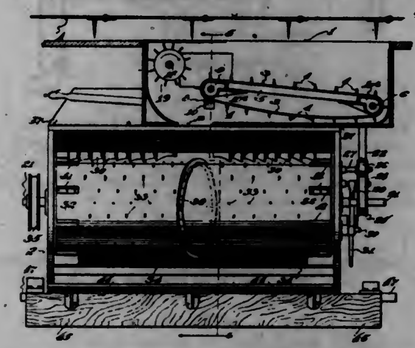
2. In a tube handling device, a ridge piece, a skid extending downwardly from the ridge piece, a table at the lower end of the skid arranged to receive tubes from the skid, means for feeding tubes in the direction of their lengths to the ridge piece, and means for moving tubes from the ridge piece to the skid, said last named means consisting of a member arranged to be engaged by the advancing end of a tube to deflect the same sidewise.

1,918,773. EASEL TYPE LOOSE LEAF BINDER. CYRUS E. MOREHOUSE, Clifton Heights, Pa. Filed Mar. 16, 1932. Serial No. 599,174. 2 Claims. (Cl. 129—1.)



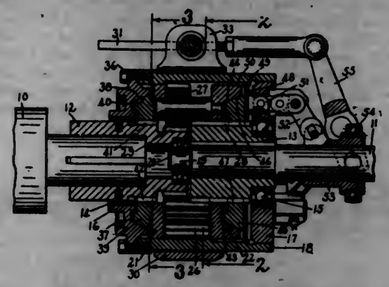
1. A loose-leaf book of the character stated, comprising a back including a pair of spaced parallel hinge members, a cover flexibly connected to each of said hinge members, a base panel flexibly connected to the outer edge of one of said covers, and means for detachably fastening the free edge of said base panel to the free edge of the other cover when the two covers are both folded back to form a generally triangular easel, a bar superimposed upon one of the hinge members, when the book is closed, having its outer edge hingedly secured to the outer edge of said hinge member, said bar carrying binding posts and a stack of loose-leaves carried upon said binding posts and detachably secured to said bar by means of the same.

1,918,774. COTTON CLEANER AND FEEDER. STEPHEN D. MURRAY, Dallas, Tex. Filed July 15, 1929. Serial No. 378,442. 8 Claims. (Cl. 19—67.)



1. A cotton cleaning gin feeder having a receiving hopper with an outlet at its end, a foraminous case with a cotton inlet midway of its ends corresponding with the outlet of said hopper and having delivery outlets adjacent its ends, a rotatable cylinder in said case for processing the cotton toward the outlets and effecting its uniform discharge into the ends of a gin roll box.

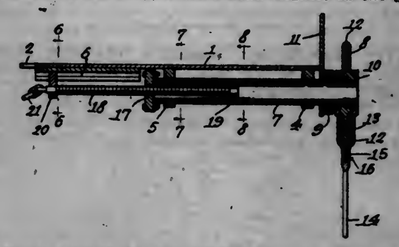
1,918,775. REVERSE GEAR. ARTHUR T. NABSTEDT, Hamden, Conn., assignor to The Snow & Petrelli Manufacturing Company, New Haven, Conn. Filed Feb. 3, 1931. Serial No. 513,111. 30 Claims. (Cl. 74—34.)



1. In a reverse gear, a casing, a gear within said casing, means to connect said casing and said gear together including a part connected to said casing, and a part having an opening in which said gear is disposed and connected thereto, one of said parts having a recess, the other of said parts being movable axially with respect to the first part to clutchingly engage the first part within the recess thereof and being in the form of a compressible split ring.

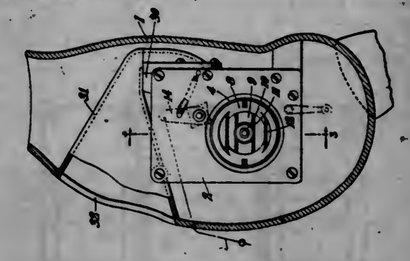
1,918,776. BRAKE ACTUATING MECHANISM. FRANK A. NELSON, Lakeland, Fla. Filed Nov. 18, 1930. Serial No. 496,524. 1 Claim. (Cl. 74—40.)

An actuating means for brake mechanism including an operating hand wheel mounted for rotation, and means operated by the hand wheel for exerting a direct pull upon a brake mechanism, said means including a sleeve rotatable with the wheel, a nut secured to and rotatable with one end of the sleeve, a guide to be secured to the bottom of a car body, a cross head slidable in the guide,



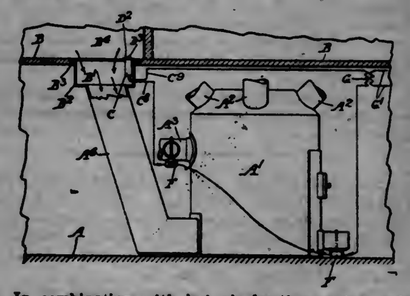
a screw secured in and held against rotation by the cross head and operably engaged by the nut, means on one end of the screw and slidable within the rotatable sleeve for supporting said end of the screw in the sleeve, and means for connecting the screw to a brake mechanism.

1,918,777. SOUND REPRODUCING MECHANISM. ERWIN J. PANISH, Bridgeport, Conn., assignor of one-half to William B. Chapman, Jackson Heights, Long Island, N. Y. Filed Nov. 24, 1924. Serial No. 751,857. 13 Claims. (Cl. 274—1.)



1. A sound reproducing mechanism comprising a record support, a motor for rotating the same, a motion controlling member for said motor, a rotary spindle adapted to turn in step by step fashion associated with said actuating member, a braking device and a needle arm located adjacent said spindle, cam members carried by said spindle adapted to control the position of said braking device and needle arm according to the position of said first mentioned member, and means for operating said spindle in step by step fashion.

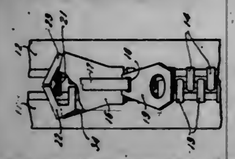
1,918,778. THERMOSTAT. LAURENCE M. PERSONS, St. Louis, Mo. Filed July 21, 1930. Serial No. 469,358. 2 Claims. (Cl. 236—10.)



1. In combination with hot air heating system, which includes hot air supply lines and a cold air return line,

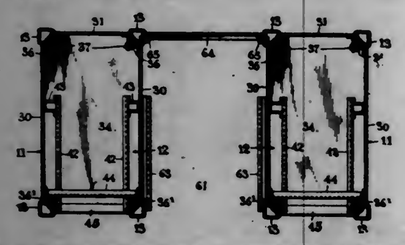
a register, and temperature responsive control means positioned in the cold air return line adjacent said register, and means for adjusting said temperature responsive control means, including a movable element projecting upwardly through said register.

1,918,779. FASTENER. GEORGE E. PRENTICE, Berlin, Conn. Filed Aug. 28, 1931. Serial No. 559,871. 11 Claims. (Cl. 24—205.)



1. A separable fastener comprising flexible stringers, opposed series of fastener elements supported by the stringers, the stringers having exposed portions beyond the ends of the respective series of fastener elements, a slider having a neck which is disposed between the stringers, the slider being movable along the stringers for engaging the fastener elements, and wedge means operable by the slider for drawing taut about the slider neck the exposed portions of the stringers which lie beyond the series of fastener elements.

1,918,780. METALLIC DESK. BENJAMIN G. RAND, North Tonawanda, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y. Filed Mar. 19, 1930. Serial No. 437,087. 5 Claims. (Cl. 45—6.)



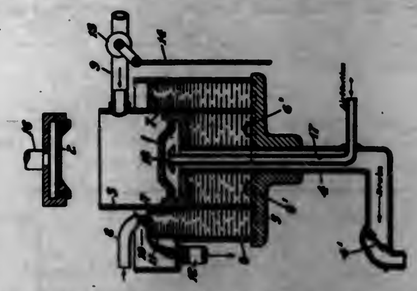
3. A desk pedestal structure comprising a drawer unit having a bottom plate and vertical end and side plates on the bottom plate forming a rigid box having an open top and an open front, the front and rear vertical corners of said box having inwardly extending portions providing angular seats, a plurality of supporting legs, each leg being substantially rectangular in cross section and having two adjacent sides received in a seat, and means securing each leg to its respective seat.

1,918,781. SIZED PULP STOCK AND PRODUCT THEREFROM. WALTER H. RANDALL, Waterville, Maine, assignor, by mesne assignments, to Fidelity Trust Company, Portland, Maine, a Corporation of Maine, trustee. Filed June 24, 1929. Serial No. 373,486. 23 Claims. (Cl. 92—21.)

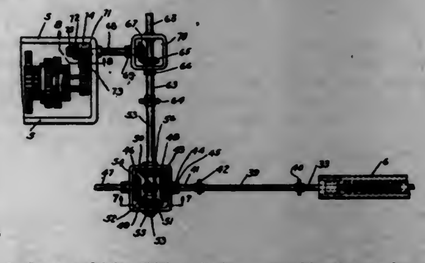
1. A sizing mixture for a pulp solution, comprising a fibrous medium having a substantial impregnation of unmodified size.

1,918,782. METHOD OF AND APPARATUS FOR FORMING MOLDED PULP ARTICLES. WALTER H. RANDALL, Waterville, Maine, assignor, by mesne assignments, to Fidelity Trust Company, Portland, Maine, a Corporation of Maine, trustee. Filed Aug. 31, 1931. Serial No. 560,432. 19 Claims. (Cl. 92—57.)

1. The die and cylinder formation method which consists in successively depositing upon a foraminous forming die intermittently movable within said cylinder aqueous pulp solutions of different characteristics and in such relation to each other and to the movement of the die that during the movement of said die in said cylinder the second pulp solution is imposed upon said first solution before said first solution is completely deposited whereby to form a substantially integral article on said die, and in finally moving said forming die into a position in which the formed article may be removed therefrom.

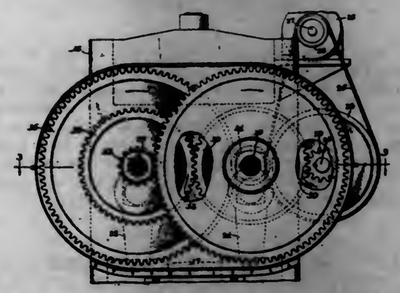


1,918,783. VEHICLE JACK. HOWARD REDDING, Seattle, Wash. Filed Mar. 17, 1932. Serial No. 599,540. 2 Claims. (Cl. 254—86.)



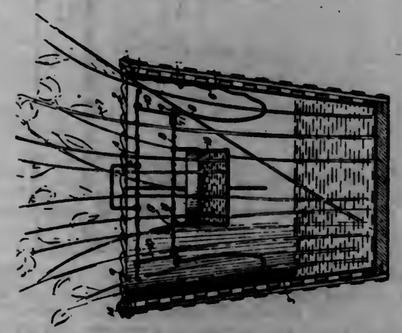
1. In a vehicle, lifting jacks, rotatable means for operating said lifting jacks and selective means interposed between said rotatable means and a pair of said jacks for controlling the operation thereof, comprising a pair of slidably mounted bevel gears, rotatable with said rotatable means, bevel gears associated with each of said lifting jacks and means for moving each one of said pairs of gears selectively into engagement with said laterally named gears for controlling the operation of said jacks.

1,918,784. SHEET METAL DRAWING PRESS. FREDRICH J. RODE, Chicago, Ill. Filed Apr. 11, 1932. Serial No. 604,417. 8 Claims. (Cl. 74—14.)



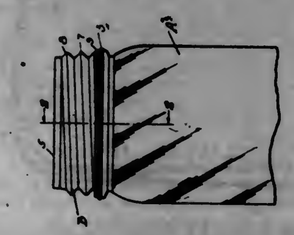
1. In a metal drawing press, a reciprocable ram, spaced parallel crank shafts, links connecting the ram with the crank shafts, overlapping gears of large diameters connected with the respective shafts, a power shaft, and intermediate gears connecting the power shaft with the first recited gears for rotating the crank shafts, the said intermediate gearing being supported by and rotatable upon the said crank shafts.

1,918,785. FLOWER HOLDER. LUCIAN ROSENWALD, Kansas City, Mo., assignor to Emma Rosenwald, Kansas City, Mo. Filed Sept. 12, 1929. Serial No. 392,032. 30 Claims. (Cl. 47—41.)



1. In a flower holder, in combination with a basket having interstices and a liner mounted in the basket, a screen, and means for supporting the screen in the liner including legs having bent ends adapted to engage in the interstices of the basket.

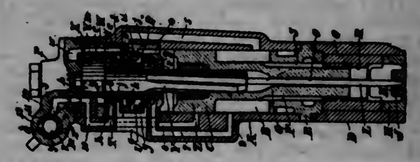
1,918,786. FRUIT JAR CAP. ALEXANDER L. SCHRAM, Hillsboro, Ill. Filed June 25, 1931. Serial No. 546,786. 5 Claims. (Cl. 215—43.)



1. A screw-threaded jar cap formed of metal and having its lower sealing edge adapted to engage a compressible gasket and provided with a plurality of circumferentially spaced corrugations therealong and extending other than normal to the peripheral sealing edge.

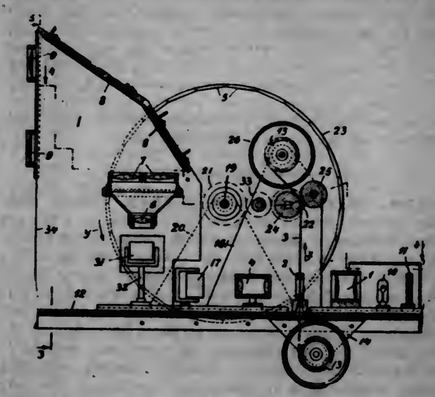
1,918,787. BLOWING DEVICE. WILLIAM A. SMITH, Sr., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 18, 1930. Serial No. 503,207. 1 Claim. (Cl. 121—6.)

In a blowing device for a fluid actuated rock drill, the combination of a casing and a hollow working implement extending thereinto, said casing having a piston chamber and a valve chamber, an exhaust port for the valve chamber, a hammer piston in the piston chamber to actuate the working implement and having a passage to afford communication between the working implement and the front end of the piston chamber, front and rear inlet passages leading from the valve chamber to the piston chamber, kicker passages leading from the piston chamber to the ends of the valve chamber and being controlled by the piston, a branch passage opening into one of said kicker passages, a distributing valve in the valve chamber to control the inlet passages and to control communication between the inlet passages and the exhaust port, opposed end actuating areas and opposed intermediate holding areas on the valve, said actuating areas being subjected to pressure fluid supplied by the kicker passages for actuating the valve, a throttle valve chamber having an atmospheric vent, a supply passage connecting the throttle valve chamber with the valve chamber a throttle valve in the throttle valve chamber having a groove to establish communication between the branch passage and the atmospheric vent, said throttle valve being movable to one position to supply pressure fluid to the valve chamber



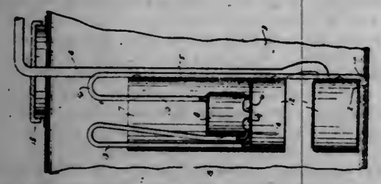
for distribution by the distributing valve and to communicate the branch passage with the atmospheric vent during the normal operation of the tool, said throttle valve being rotatable to another position to cut-off communication between the branch passage and the atmospheric vent and to supply pressure fluid to an actuating area for holding the valve immovable to communicate the rear end of the piston chamber with the exhaust port and to supply pressure fluid through the supply passage to the valve chamber to act against a holding area for assisting in holding the valve whence the pressure fluid flows through the front inlet passage, the front end of the piston chamber and the passage in the piston to the working implement.

1,918,788. SYSTEM FOR PROJECTING MOTION PICTURES. WALTHER THORNER, Berlin, Germany. Filed July 15, 1930, Serial No. 468,022, and in Germany June 2, 1928. 7 Claims. (Cl. 88—16.8.)



1. The herein described system for projecting motion pictures, comprising means for continuously moving a film, an optical projection system including a source of light, a series of optical rectifying means having the same path and moving continuously with the film for compensating for the movement of the film and adapted to project a plurality of simultaneous stationary images of a single picture of the film, a screen, and stationary optical means for directing the rays from one and the same film-borne picture and simultaneously transmitted by the series of rectifying means upon the same part of said screen.

1,918,789. AIR PUMP. FRED L. TITSWORTH, Auburn, Ind., assignor to Alfred J. Kirstin, Auburn, Ind. Filed Aug. 23, 1929. Serial No. 387,824. 16 Claims. (Cl. 73—54.)



1. An air pump comprising the combination with a container adapted to receive and hold liquid of variable depth, of a first air bell subject to a variable head generally proportional to the depth of liquid in said container, means for supplying air to the first air bell during a cycle of change of depth of the liquid in the container, said means including a secondary bell above the first and provided with a well adapted to contain liquid at relatively constant depth and subjecting air in said second bell to a head sometimes less and sometimes greater than the head upon said first mentioned bell, and a duct arranged for air delivery from an upper portion of said first bell to said second bell and including means for preventing liquid delivery between said bells at the relative heads to which said bells are normally subject.

1,918,790. VENTILATING AND REFLECTING TRANSOM FOR PASSENGER CARS. FREDERIC M. WHYTE, Tarrytown, N. Y. Filed June 9, 1931. Serial No. 543,130. 21 Claims. (Cl. 105—329.)

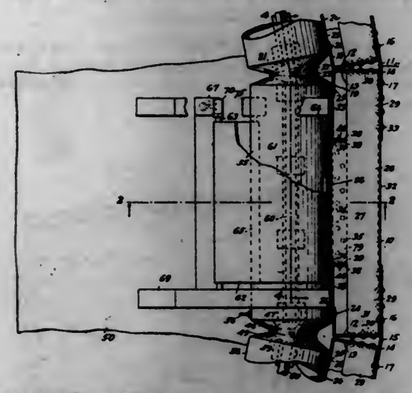


1. In a roofed passenger car having ventilating apertures and lamps at or adjacent the ceiling and spaced along the car, a series of transoms depending from the ceiling and extending transversely of the car at points spaced therealong between the successive lamps and ventilating apertures and each having downwardly converging, opposite, longitudinal side surfaces extending crosswise of the car and facing obliquely downward and longitudinally of the car in opposite directions.

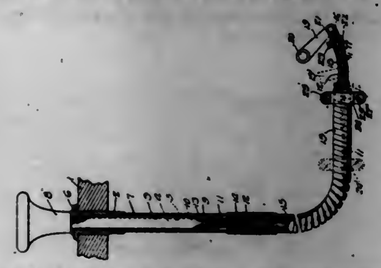
1,918,791. WATERLESS GAS HOLDER. ANTON MARTIN ANTICH, Asbury Park, N. J., assignor of forty per cent to Thomas Skroza, Hartford, Conn. Filed Dec. 1, 1930. Serial No. 499,219. 16 Claims. (Cl. 48—176.)

1. In a waterless gas holder free from sealing liquid, a tank polygonal in cross-section, and having columns at the corners thereof, each of said columns comprising a pair of angularly disposed channels, an outer plate joining the outer flanges of said channels, an inner plate secured to said channels and having a central, interiorly extending portion, substantially triangular in cross-section, the body of said tank between said inner plates comprising a series of vertically arranged bent plates secured to said inner plates and to said channels, each of said bent plates having a horizontal portion of substantially the width of the web of the channel, a vertical inner portion depending from the inner edge of said flange and a vertical outer portion depending from the outer edge of said flange, and a second horizontal portion extending outwardly from the lower edge of said vertical portion and of less width than the width of the first-mentioned horizontal portion, a piston closure in the tank, and an annular rolling element carried by said piston closure and engaging the inner surface of said tank and indented at spaced points to fit and engage the triangular projections on said columns to form a leak-proof closure therebetween and adapted to permit rotation of the element as a unit about its annular axis.

16. In a waterless gas holder free of sealing liquid and including a tank and a piston closure, a device for sealing the gap between the piston closure and the tank comprising an annular inflatable tube, and means on the closure for supporting said tube in position to close the gap, said tube comprising a series of spaced cylinders arranged so that their axes form the sides of a polygon, and distortable connections between the ends of the cylinders to complete the tube and to permit the cylinders and the connections to rotate about their respective axes.

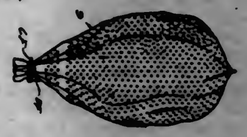


1,918,792. FLEXILBE POWER TRANSMITTING DEVICE. CHARLES A. ARENS, Chicago, Ill. Filed Mar. 22, 1930. Serial No. 437,985. 11 Claims. (Cl. 74—39.)



1. A flexible control for transmitting power comprising a casing, a coiled member extending through said casing and beyond one end thereof, a flexible tension member extending through said coiled member, an additional flexible member of less flexibility than said first mentioned member adapted to be arranged parallel with said first mentioned flexible member in the part of said coiled member which extends beyond said casing, and means securing both of said flexible members and said coiled members together.

1,918,793. LAUNDRY BAG. RALPH B. BAKER, Chicago, Ill. Filed May 18, 1932. Serial No. 611,989. 6 Claims. (Cl. 150—1.)



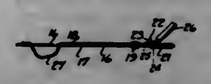
1. A container in which laundry is adapted to be confined while being washed and dried consisting of a sack of elastic non-absorbent and water-impervious material, said sack having a multiplicity of perforations formed in the sides thereof, and means for releasably locking the open end of the sack.

1,918,794. MERCURY SWITCH. PAUL S. BEAR, Elkhart, Ind., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a Corporation of Delaware. Filed Feb. 13, 1930. Serial No. 428,019. 6 Claims. (Cl. 200—152.)



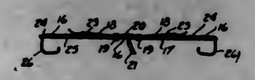
1. A mercury switch comprising an outer envelope, electrodes extending thereinto, a pinch seal between said envelope and both of said electrodes, an inner cup of arc resistant material having its closed end adjacent to said pinch seal and supported upon one of said electrodes, the electrode upon which the cup is supported extending thereinto, the other electrode extending into the space between the cup and the envelope, and a body of mercury uniting and dividing on a surface of the cup.

1,918,795. CURRENT COLLECTOR FOR TOY LOCOMOTIVES. JOSEPH L. BONANNO, Forest Hills, N. Y., assignor to The Lionel Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 27, 1931. Serial No. 559,609. 6 Claims. (Cl. 191—49.)



1. A current collector for toy electric locomotives comprising a strip of insulating material apertured near one end and a resilient strip of conducting material bent to a U-shape near one end and secured at its other end to the end of the insulating strip remote from the aperture, the U-shaped bent portion being carried in the aperture.

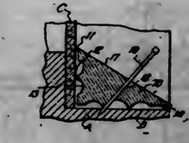
1,918,796. CURRENT COLLECTOR FOR TOY LOCOMOTIVES. JOSEPH L. BONANNO, Forest Hills, N. Y., assignor to The Lionel Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 27, 1931. Serial No. 559,610. 9 Claims. (Cl. 191—49.)



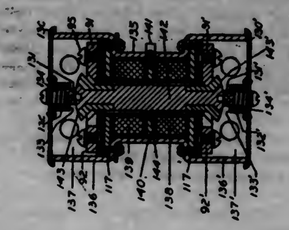
1. A toy electric locomotive having spaced apart frame plates, an insulating strip extending between the plates, a current collector, the current collector having a portion extending along the upper face of the strip and a portion extending downwardly underneath the strip for contact with a rail underneath the locomotive, and a quick detachable spring connection for detachably securing the collector to the strip and resiliently pressing it downwardly.

1,918,797. WINDOW PANE RETAINING STRIP. ANTON BREZINSKI, Perth Ambody, N. J. Filed Nov. 15, 1932. Serial No. 642,705. 7 Claims. (Cl. 20—56.4.)

1. A window pane fastener comprising a strip of soft malleable material of substantially triangular shape in cross section, two of the faces of said strip adapted to respectively fit against the glass pane and sash frame of a window sash, and longitudinal ribs extending the length of the strip on the above mentioned faces inwardly of the longitudinal edges thereof and projecting beyond the plane of said faces.



1,918,798. ELECTRIC SWITCH. WILLIAM B. CHUSCHER, Baltimore, Md., assignor to The Glenn L. Martin Company, Baltimore, Md., a Corporation of Maryland. Filed Jan. 7, 1931. Serial No. 507,257. 10 Claims. (Cl. 200—100.)



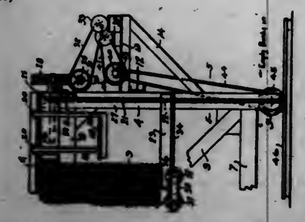
1. An electric switch including an operative relation: a conical contactor; a plurality of non-resilient segmental contact members each having a coniform seat that is adapted to concentrically nest with said contactor in coextensive surface contacting relation; means to nest said contactor with said seats in said concentric relation; means to separate said contactor from said seats; and a stop member to limit the separation between said contactor and said seats.

1,918,799. MEANS FOR APPLYING PLASTER MATERIALS. HUGH A. CONLEY, Lynwood, Calif., assignor to Conley Plastering Machine Company, Inc., Compton, Calif., a Corporation of California. Filed Sept. 1, 1930. Serial No. 479,113. 21 Claims. (Cl. 72—130.)



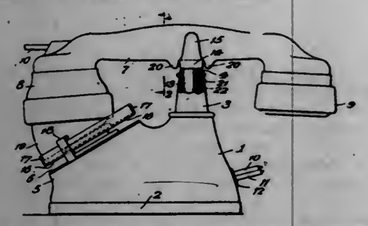
1. In a plastering device of the character described, the combination of: a head; a support for said head by which it may be maintained in operative position relative to a receiving surface; bat members carried by said head; each of said members being provided with a plane contact face; means for moving said bat members; and means for delivering plaster materials to said contact faces of said bat members.

1,918,800. MOVABLE LUMBER STACKER. JOSEPH A. DENTON, Milwaukee, Wis. Filed Oct. 12, 1929, Serial No. 399,340. Renewed July 13, 1931. 9 Claims. (Cl. 214—6.)



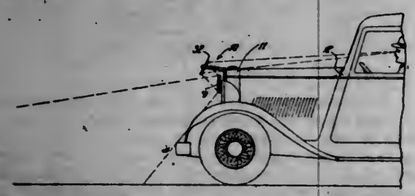
2. A lumber stacking and transporting apparatus for use with the bays of an automatic lumber sorter and comprising means extending along the bays for transporting piles of lumber from any of the bays to another point, a track having rails disposed along the outside of said means, a lumber stacker including a wheeled frame riding on said rails and straddling said means, and mechanism cooperable with said means, carried by the frame of the stacker and vertically movable relative thereto and designed and adapted to provide for the building up of the stack of lumber thereon, the supporting of the complete stack and the delivery of the completed stack to any desired point of deposit within the operating range of said means.

1,918,801. TELEPHONE SET. CHARLES H. J. DILG, New York, N. Y. Filed Oct. 22, 1931. Serial No. 570,327. 6 Claims. (Cl. 179—100.)



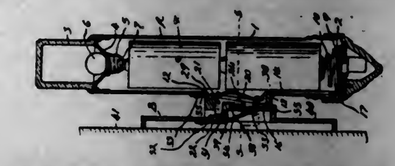
1. In a telephone desk set comprising a desk stand having a base with a tubular standard rising therefrom and a circuit-controlling plunger vertically slidable in and exposed at the upper end of the standard, and a hand set having two telephone units connected together by a handle; the combination of supporting means on the base to be engaged by one of the said units, and other supporting means for the hand set to be engaged by its handle at a point of support on the handle beyond the center of gravity of the hand set from the said unit supported on the base and for maintaining the handle in circuit-controlling engagement with the said plunger.

1,918,802. MIRROR ATTACHMENT FOR MOTOR VEHICLES. RUDOLF R. FLEISCHER, Freeport, N. Y. Filed Aug. 27, 1932. Serial No. 630,669. 3 Claims. (Cl. 45—97.)



1. In combination with a motor vehicle having a radiator, a pair of mirrors arranged at a fixed angle with respect to each other, one of said mirrors facing forward of and disposed below the top of said radiator while the other of said mirrors is disposed above said radiator and faces rearwardly thereof, and attaching means for securing said mirrors in supported position upon said radiator.

1,918,803. ELECTRIC LIGHT. BURTON S. FLORADAY, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 11, 1932. Serial No. 586,051. 11 Claims. (Cl. 240—10.64.)

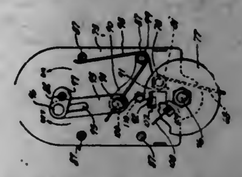


1. In an electric light and holder assembly, the combination of an electric light of the self-contained portable unit type having a slide engaging portion and a switch including a button movable transversely of the slide engaging portion to open a circuit in the light and movable longitudinally of the slide engaging portion to an operative position so that the light circuit aforesaid may be closed, and a bracket attachable to a wall and provided with a longitudinally extending slide for the reception of the slide engaging portion aforesaid of the light, and means intermediate the ends of the slide for successively moving the button transversely and longitudinally.

1,918,804. SHELLAC-PIGMENT COMPOSITION. WILLIAM HOWLETT GARDNER, New York, N. Y., assignor to United States Shellac Importers' Association, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 10, 1930. Serial No. 487,914. 2 Claims. (Cl. 134—39.)

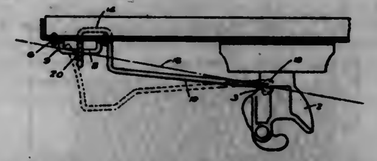
1. A shellac-pigment composition comprising shellac, shellac solvent, metallic pigment and malic acid.

1,918,805. HEATER LIGHTER. FRANK A. GAUGER and ROY W. JOHNSON, Milwaukee, Wis., assignors, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a Corporation of Delaware. Original application filed June 13, 1924, Serial No. 719,797. Divided and this application filed July 18, 1927. Serial No. 206,724. 4 Claims. (Cl. 161—9.)



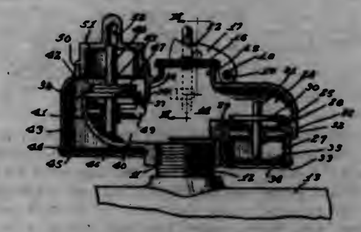
1. Time controlled mechanism comprising a casing, a disc supported for rotation in said casing and having means adapted for connection with the instrumentality to be controlled, means exterior of said casing for rotating said disc, a settable clock movement in said casing, a crank pin driven from the clock movement, a link having a slot in which said pin is operatively fitted, a trigger member pivotally connected to and controlled by said link, spring means for biasing said trigger member to operative position, and a projection on said disc engageable with said trigger member upon setting of said clock movement and appropriate adjustment of said disc, said clock movement automatically disengaging said trigger member from said projection after the lapse of the selected time interval.

1,918,806. OPERATING DEVICE FOR CAR COUPLERS. GARTH G. GILPIN, Riverside, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 22, 1931. Serial No. 531,940. 3 Claims. (Cl. 213—17.)



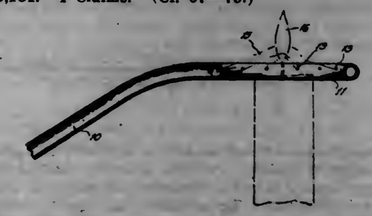
1. In a railway car, an operating device for use with a car coupler mounted upon the car to move laterally in service and having a rotor mounted upon the coupler arranged to operate the coupler upon rotation thereof, said device comprising a bracket mounted upon the car provided with a bearing, and an operating rod consisting of a shank operatively connected to the rotor at its inner end and having its outer end bent upwardly to form a substantially upright member supported at its upper end by said bracket, said shank having a handle portion located back of a vertical plane passing through the connections of the operating rod to the rotor and bracket, respectively, the major portion of said shank being positioned in front of said plane whereby the force of gravity tends to rotate the operating rod in a direction which would not unlock the coupler.

1,918,807. VENT VALVE. WILLIAM N. GLAB, Dubuque, Iowa, assignor to Morrison Bros., Dubuque, Iowa, a Corporation of Iowa. Filed Aug. 31, 1931. Serial No. 560,262. 2 Claims. (Cl. 220—44.)



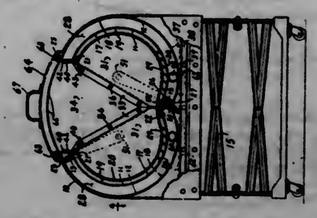
1. In a vent valve, a valve housing having a pipe connection and a gaging opening in alinement with said connection, a valve structure on one side of said opening below the plane of the opening, a second valve structure on the opposite side of said opening and protruding above the plane of the opening, a closure for said opening swingable toward the first mentioned valve structure and a fastening bail for said closure also swingable toward said first mentioned valve structure.

1,918,808. FLAME EXTINGUISHER. ROBERT E. GURELL, New York, N. Y. Filed Mar. 1, 1933. Serial No. 659,131. 4 Claims. (Cl. 67—75.)



8. In a flame extinguisher, a circular flame encircling member tubular in form, and a plurality of air discharge openings adapted to discharge air radially inwardly of said flame encircling member, said discharge openings being so arranged as to concentrate their blasts of air at a point above the base of the flame to be extinguished.

1,918,809. WASHING MACHINE. ANTON E. HANSON, Chicago, Ill. Filed Apr. 9, 1931. Serial No. 528,849. 9 Claims. (Cl. 68—37.)



1. A washing machine, of the character described, having oppositely curved walls arranged in concentric pairs so as to form opposite curved spaces, each pair of concentric walls comprising an inner wall and an outer wall or bottom, said inner walls having openings formed therein and upwardly inclined longitudinal deflectors adjacent the openings, mechanism for lifting and forcing washing and rinsing fluids upwardly and downwardly and in contra-directions in said curved spaces and through said openings, and to cause a thorough agitation of the goods in the machine, and turning them over and over through the action of the said fluids, comprising oscillatory pumping plungers workable in said curved spaces, said curved spaces as formed between said inner and outer curved walls being arranged in opposite pairs longitudinally of the machine.

1,918,810. CASING HEAD WITH BLOWOUT PREVENTER. FRANK J. HINDERLITER, Tulsa, Okla. Filed Mar. 30, 1932. Serial No. 601,950. 26 Claims. (Cl. 166—14.)



1. In a casing head, a vertically disposed extension thereon for surrounding a pipe passing therethrough, supporting means in said extension, a packing assembly on said supporting means, said packing assembly comprising an annular resilient packing element disposed for engagement with the pipe and including a depending skirt portion on its inner edge, and means for urging downwardly on said packing assembly to depress the same and form a high pressure seal between the pipe and said extension.

1,918,811. PAPER CONTAINER. ERNEST HUFF, Milwaukee, Wis., assignor to American Lace Paper Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 4, 1931. Serial No. 542,071. 1 Claim. (Cl. 229—31.)

A pleated paper container having a pleated tapered wall and an integral band bead comprising three plies of the material of the container successively folded back upon said wall with the end ply extending downwardly between the other two plies, the outer ply being substantially cylindrical and forming an acute angle with the wall of the container, the extreme margin of the material com-

prising the container being embraced by the lower margins of the two plies connected together about said extreme margin and held thereabout by contact of the innermost ply with the wall of the container whereby to oppose the

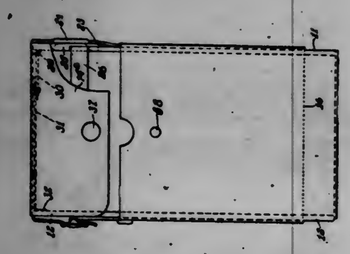


opening of the bead, said bead serving to hold the pleats in position, the innermost pair of plies nesting in the angle between the cylindrical outer ply of the bead and the tapered wall of the container.

1,918,812. TREATMENT OF STEEP WATER. RALPH W. KERR, Yonkers, and HENRY BERLIN, New York, N. Y., assignors to International Patents Development Company, Wilmington, Del., a Corporation of Delaware. Filed July 12, 1930. Serial No. 467,619. 13 Claims. (Cl. 195—20.)

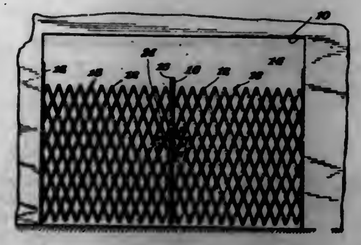
1. The method of treating corn steep water containing micro-organisms native to the corn to prevent scaling when the steep water is evaporated which consists in maintaining the step water after steeping and before evaporation at a temperature between 95° and 140° F. until the scale forming substances are converted into non-scale forming substances and thereafter evaporating the steep water.

1,918,813. CAMERA CASE. JACOB KINZY, Brooklyn, N. Y. Filed Feb. 2, 1932. Serial No. 590,381. 1 Claim. (Cl. 95—32.)



In a camera case adapted to receive a camera therein, means for opening said case to permit using the camera without removing the camera from the case, said means comprising a front wall hinged to said case at its lower end and adapted to support the extended camera thereon when in extended position, a cross-member joining the upper ends of the side walls of said case and adapted to support in vertical position the upper end of the front wall of the camera while said camera is being opened, one of said side walls being shorter than the other and having an ear hinged to its upper end, said upper end of said wall having a semi-circular cut-out therein, the diameter of said cut-out being coincident with the upper-most horizontal edge of said wall, said ear having a similar semi-circular recess dished-out of the inner wall thereof adapted to receive the film-winding key of the camera when said ear is in normal vertical position, and a coiled spring for retaining said ear in vertical position to cover said wall recess when the case is closed, said dished-out recess in the latter position of said ear registering against said cut-out.

1,918,814. GATE LOCK. FRANK KITZELMAN, Chicago, Ill., assignor to Acorn Wire & Iron Works, Chicago, Ill., a Corporation of Illinois. Filed Oct. 13, 1930. Serial No. 488,310. 6 Claims. (Cl. 70—31.)



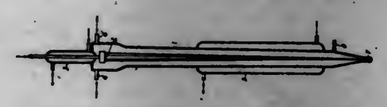
1. A gate lock for a folding gate having a frame upright including a pair of spaced channel shaped members, comprising a split block secured in said frame upright between said members, a lock body secured within said block between said members, and a lock bolt adapted to be actuated by a key in said lock.

1,918,815. RAILROAD CROSSING BARRIER. JAKOB KLEIN, New York, N. Y., assignor of fifty per cent to Max Backer, New York, N. Y. Filed Jan. 28, 1932. Serial No. 589,329. 5 Claims. (Cl. 246—293.)



1. In combination with crossing gates rotatably mounted intermediate their length and adapted to be raised and lowered by a cable wound on a drum rotatable with the pivot of said gates, movable means mounted adjacent the track and adapted to be depressed by a train passing thereover, said cable connecting said means with said gates, said cable being normally taut and holding said gates in raised position, depression of said movable means causing loosening of said cable and causing said gates to fall into closed position by gravity, and means for keeping said gates in closed position until the train has passed the crossing.

1,918,816. PROCESS FOR MANUFACTURING ARTIFICIAL THREADS. GUSTAVE LECOMTE, Roussillon, France, assignor, by mesne assignments, to Du Pont Rayon Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 3, 1928, Serial No. 297,148, and in Great Britain Aug. 10, 1927. 18 Claims. (Cl. 18—54.)

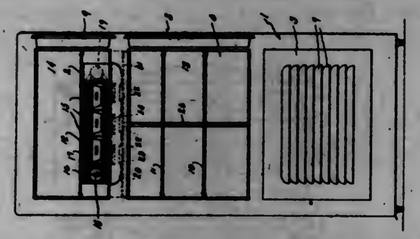


1. A process of manufacturing artificial threads free from scintillating effects by dry spinning cellulose derivatives in volatile solvents comprising heating the spinning solution prior to being extruded through the dies, extruding the solution, and introducing a cold drying atmosphere in the cell in the vicinity of the dies.

1,918,817. ART OF REMOVING LEAD FROM TUBES AND OTHER ARTICLES. CHARLES L. MANTELL, Brooklyn, N. Y., assignor to Dudzeele Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Dec. 12, 1928, Serial No. 325,643. Renewed Jan. 19, 1933. 1 Claim. (Cl. 75—18.)

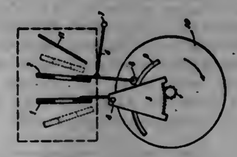
The method of removing lead from lead coated articles, which includes the step of subjecting them to treatment in a bath containing soluble sulphates, acetates, nitrates, and chloride ions of a concentration corresponding to that of a saturated solution of sodium chloride, and sulphuric acid, the bath having a temperature of about 180°.

1,918,818. REFRIGERATING APPARATUS. EDGAR D. MISNER, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Mar. 14, 1927, Serial No. 175,358. Renewed Oct. 27, 1932. 14 Claims. (Cl. 62—99.)



8. A refrigerant evaporator for circulating air and for freezing substances, comprising a pair of elongated horizontal headers disposed on the same horizontal plane and duct means for circulating refrigerant inter-connecting said headers and forming an elongated space for the insertion of an ice making container substantially within the height of said headers.

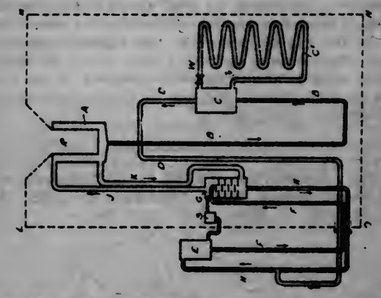
1,918,819. RECEIVER APPARATUS FOR WIRELESS COMMUNICATION. PAUL MÜLLER, Berlin-Siemensstadt, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany, a Corporation of Germany. Filed Sept. 12, 1931, Serial No. 562,488, and in Germany Mar. 7, 1931. 8 Claims. (Cl. 171—119.)



1. In combination, in a high frequency coupling device, an inductance coil, means for moving the coil bodily through a range of positions, a second coil magnetically coupled to said first coil, means independent of the first means for moving the second coil to adjust said coupling, and a metallic body disposed adjacent said first coil whereby movement of the latter towards the body results in a decrease of the inductance of the first coil and an increase in its damping.

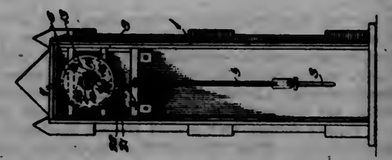
1,918,820. METHOD OF AND MEANS FOR REFRIGERATION. WOLDEMAR GEORGE NOLCKEN, London, England. Filed July 13, 1931, Serial No. 550,888, and in Great Britain July 28, 1930. 5 Claims. (Cl. 62—179.)

1. In refrigerating apparatus of the ice-box type, the method of producing an additional refrigerating effect by interposing between the refrigerant and the refrigerating chamber, a refrigerating apparatus working on the well known absorption principle, operated by the existing flow of heat from the refrigerating chamber to the refrigerant—said method consisting in condensing a vapour in heat exchange with the refrigerant, evaporating the condensate at a higher pressure and temperature in heat ex-



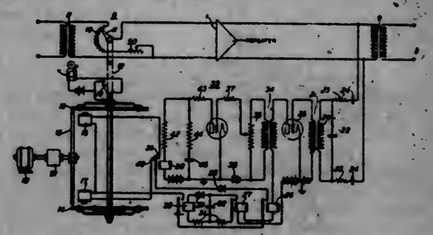
change with the refrigerating chamber, absorbing the vapour in an absorption medium at a still higher temperature in heat exchange with a cooling medium, and expelling the vapour from the absorbent at low pressure in heat exchange with the refrigerating chamber.

1,918,821. HICKERY-DICKERY-DOCK CLOCK. HARRY E. NORCROSS, Philadelphia, Pa., assignor to Warren Dungan, Philadelphia, Pa. Filed Aug. 22, 1931. Serial No. 558,674. 4 Claims. (Cl. 58—2.)



1. The combination with a clock having a vertical scale or dial, and a clock movement, of a disc loosely mounted upon the driveshaft of said clock movement, a flexible element adapted to be wound around said disc and carrying an indicating element adapted to slide up and down along said scale, a fixed cam keyed to said shaft and adapted to actuate said disc to raise said indicating element, and a loose cam mounted on said shaft and adapted to co-act with said fixed cam to disengage the latter from said disc whereby said flexible element is unwound from said disc by gravitational pull of said indicating element.

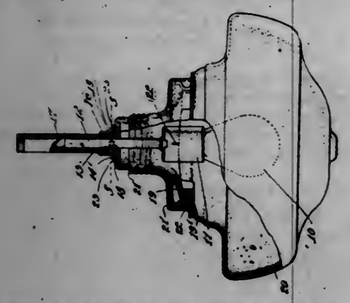
1,918,822. SIGNAL TRANSMISSION SYSTEM. NATHANIEL C. NORMAN, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed July 21, 1931. Serial No. 552,147. 11 Claims. (Cl. 178—44.)



1. A communication line having a plurality of repeater stations thereon, impedance means at each repeater station for controlling the gain effected thereby, control

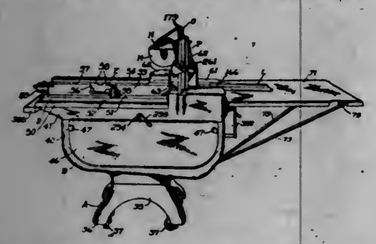
means associated with said repeater stations for automatically controlling said impedance means according to the energy level of a tone having a frequency within the voice frequency range to maintain the energy level beyond each repeater within a predetermined energy range, and means comprising a slow acting relay associated with each control means for controlling the time of operation of the control means at the repeater stations to prevent simultaneous operation thereof at the different repeater stations and to prevent operation of the control means at the different stations by voice currents during communication over the line.

1,918,823. LIGHTING FIXTURE. RICHARD O. PFEIFFER, South Orange, N. J. Filed June 25, 1932. Serial No. 619,172. 1 Claim. (Cl. 240—78.)



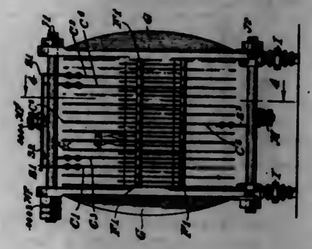
An electric lighting fixture comprising, a cap provided with an outwardly extending flange, and with a longitudinal keyway, an inner shell secured to the flange of said cap, said inner shell being provided with oppositely disposed laterally extending arms, the outer extremities of which are stepped and curved to form arced shoulders, a globe provided with a neck portion resting on the shoulder portions of the inner shell, an outer shell threadedly engaging the inner shell, and overlapping the neck portion of the globe to rigidly secure the latter between the shells, the arm and shoulder portions of the inner shell being slightly resilient to prevent breaking of the globe upon application of excessive pressure or force thereto and to provide a dust-tight fit between the outer shell and globe, an electric lamp carrying stem positioned in the cap keyway, and means passing through the cap and adapted to be brought into engagement with the stem to position the same in the keyway at the point at which the electric lamp will give maximum lighting efficiency with reference to the type of globe used in the fixture.

1,918,824. MATERIAL CUTTING AND WRAPPING MACHINE. HARLEY R. PHILLIPS, Oak Park, and HENRY J. CLARKE, Chicago, Ill., assignors to Mojonnier Bros. Co., a Corporation of Illinois. Filed Nov. 19, 1929. Serial No. 408,368. 34 Claims. (Cl. 271—2.1.)



1. In a machine of the class described, a semi-cylindrical container positioned with its open side uppermost, bearings in the end walls of said container, said container being adapted to hold two rolls of paper on a single spindle journaled in said bearings, a pair of guides extending above the level of the uppermost portion of rolls in said container, a downwardly extending stem for each guide, a support, apertured lugs on said support, said stems fitting in said apertures, coiled springs about said stems tending to yieldingly press said guides upward against the web of paper being fed thereover, means beyond said guides from said container for drawing downward on the webs of paper passing over said guides, and a flexible connection between said guides to allow a limited rotary and vertical play of such guides relative to each other.

1,918,825. EXTREME LOADING CONDENSER. GREENLEAF WHITTIER PICKARD, Newton Center, Mass., assignor, by mesne assignments, to General Electric Company, a Corporation of New York. Filed Dec. 9, 1922, Serial No. 605,794. Renewed Nov. 8, 1924. 52 Claims. (Cl. 175—41.)

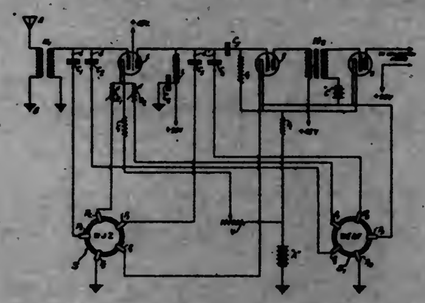


1. An extreme loading electrical condenser which comprises a plurality of sections each of which consists of a single dielectric sheet having metallic sheets adjacent its two faces, and metallic vanes extending from the metallic sheets a substantial distance beyond the edges of the dielectric sheets, the successive vanes being electrically isolated from one another, and having a sufficiently rigid construction to support themselves in spaced-apart relation to one another.

13. A condenser of the stack sheet type comprising a stack of dielectric and conducting elements, the dielectric units having larger area than the conducting units and arranged relatively to the latter in the stack to form a margin of dielectric material; and means for dissipating heat from said stack consisting of a plurality of metal vanes extending outwardly from the stack, in heat-conducting relation to the conducting stack elements, projecting in spaced-apart relation to said dielectric margins and in spaced-apart relation to one another beyond the dielectric stack elements, and projecting substantial distances from the conducting stack elements.

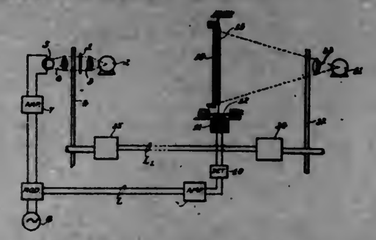
1,918,826. AUTOMATICALLY CONTROLLED RADIO-RECEIVER. WALTER VAN B. ROBERTS, Princeton, N. J., assignor to Radio Corporation of America, a Corporation of Delaware. Filed June 27, 1929. Serial No. 374,001. 7 Claims. (Cl. 250—40.)

3. A radio receiver comprising in combination, a radio frequency amplifier stage provided with a tuned input circuit, a detector stage, at least one tuned circuit disposed between the amplifier and the detector input, at least one stage of audio frequency amplification following the detector, a source of energizing current connected to the cathodes of the tubes of said stages, each of said tuned circuits including at least two frequency determining elements, at least two independent station selector switches each comprising a plurality of spaced insulated contacts, elements in said tuned circuits which resonate their circuits to the same frequency being connected to a pair of contacts of the switch corresponding to said same frequency, one contact of each switch being maintained at the same potential as the low potential end of said source, other contacts of each switch being connected to the high potential end of said source through



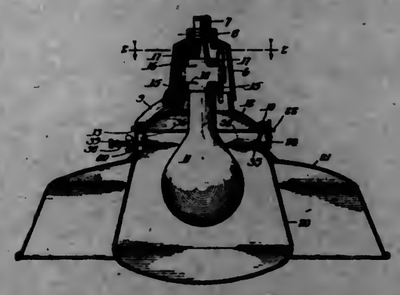
said cathodes in each stage, and conductive means for electrically connecting together the contacts of a desired switch.

1,918,827. ELECTROOPTICAL SYSTEM. JOHN J. ROGAN, Elmhurst, Long Island, N. Y., assignor to Hygrade Sylvania Corporation, Salem, Mass., a Corporation of Massachusetts. Filed Nov. 22, 1929. Serial No. 409,003. 7 Claims. (Cl. 178—6.)



1. In an image reproducing system the method of reproducing a picture at a distance which comprises projecting a moving scanning light spot of constant intensity upon a first picture reproducing screen and moving a second picture reproducing screen relatively to said first screen.

1,918,828. LIGHTING FIXTURE. GEORGE ARRAS and DWIGHT E. WORRELL, Chicago, Ill. Filed Apr. 8, 1931. Serial No. 528,810. 7 Claims. (Cl. 240—78.)

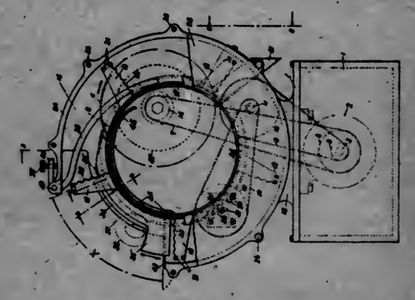


6. In a lighting fixture, a weather-tight supporting cap having a top threaded attachment opening, depending sides with integral outwardly extending spaced legs having an attachment ring at the outer ends, a lamp adjustably held in the cap, and a transparent ring member secured to the under side of the attachment ring, extending upwardly under the legs, and having a collar to extend upwardly within the lower end of the cap.

1,918,829. INK PRODUCT AND PROCESS OF MAKING THE SAME. MAX BAER, New York, N. Y. Filed Aug. 8, 1929. Serial No. 884,487. 7 Claims. (Cl. 134—135.)

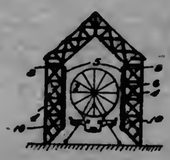
1. The herein described ink product adapted for use by lithographers, label and other printers, as a ready mixed product, characterized by including as pigments chrome yellow and gold bronze in the presence of a mixture containing sulphuric acid, cresylic acid and borax.

1,918,830. FRUIT HALVING MACHINE. JOSEPH P. BEM, Oakland, Calif., assignor to Pacific Pitting Machine Company Inc., Fresno Calif., a Corporation of California. Filed Feb. 20, 1932. Serial No. 594,243. 16 Claims. (Cl. 146—73.)



1. A fruit halving machine comprising a power-actuated saw, a movable carrier member passing across the side of the saw, a yoke carried by the carrier member having a leg on both sides of and close to the saw, the yoke legs joined together at their outer ends at a height to pass over the edge of the saw, and a guide for the fruit leading to the saw straddled by said yoke.

1,918,831. DIRIGIBLE DOCK. EDWARD LINDLEY BOWLES, Wellesley Farms, Mass. Filed Sept. 6, 1929. Serial No. 390,744. 7 Claims. (Cl. 189—1.5.)

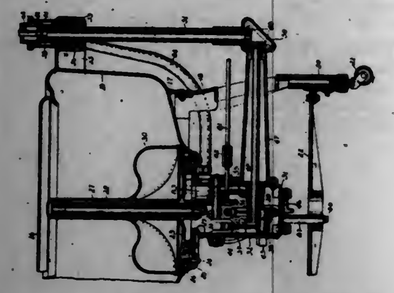


1. A dirigible hangar having an interior wall adjacent to which the bag of the dirigible is adapted to be disposed, the wall having a plurality of separated, rigid members disposed transversely of the bag and against which the bag is liable to contact, and a protecting element disposed between the wall and the bag for protecting the bag from damage by contact with the wall, the elements being of material that will not injure the bag by such contact.

1,918,832. WASHING MACHINE. ANTON FRANK BROTZ, Kohler, Wis., assignor to Kohler Company, Kohler, Wis., a Corporation of Wisconsin. Filed Dec. 17, 1928. Serial No. 326,600. 4 Claims. (Cl. 74—14.)

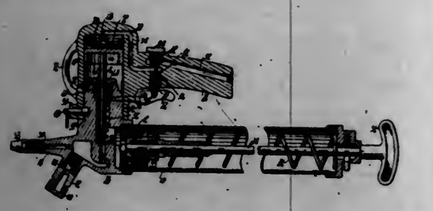
1. Driving mechanism for a washing machine having a container with an opening in the bottom and a mounting plate for said opening, comprising a gear-case secured to the bottom of the mounting plate, a bracket on the gear-case, a motor mounted on the bracket, a worm shaft extending across the gear-case and mounted in bearings in opposite walls thereof and driven by the motor, a vertical impeller shaft passing through the mounting plate in the

same vertical plane as the worm shaft, a pinion on the impeller shaft, a worm wheel suitably mounted in the gear-case in said plane and meshing with the worm of the worm shaft, a wrist-pin on the worm wheel, a crank shaft journaled in bearings in opposite walls of the gear-case in the same vertical plane with the axis of the worm wheel and positioned between the worm shaft and the end of the impeller shaft, a connecting rod connecting



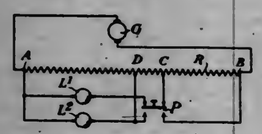
the wrist pin with the crank of the crank shaft at one side of the vertical plane of the worm shaft and the impeller shaft, a beveled gear wheel splined on the crank shaft on the other side of said vertical plane and meshing with the pinion of the impeller shaft, a yoke pivotally mounted in the gear-case and engaging the beveled gear, and means passing through the wall of the gear-case for swinging the yoke.

1,918,833. POWER UNIT FOR INDIVIDUAL LUBRICANT GUNS. JOHN F. CARTER, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a Corporation of Ohio. Filed Nov. 11, 1931. Serial No. 574,428. 20 Claims. (Cl. 221—47.3.)



2. In a device of the class described, a lubricant gun comprising a discharge nozzle, a cylinder, and a lubricant expeller plunger for expelling lubricant from said cylinder in combination with a power unit for said lubricant gun detachably connected therewith and comprising a power moved member engageable with said lubricant expeller plunger.

1,918,834. VOLTAGE INDICATING APPARATUS. PAUL H. CRAGO, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 29, 1932. Serial No. 601,875. 1 Claim. (Cl. 175—183.)



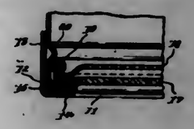
In combination, a source of direct current the voltage of which is to be kept within a desired range, a resistance connected across said source, a glow tube normally connected across a given portion of said resistance, a second glow tube connected across a lesser portion of said resistance, and means for at times breaking the circuit through said first tube and connecting the second tube across a much larger portion of said resistance than before, the parts being so chosen and connected that the first tube will break down when the voltage of said source reaches the upper limit of the desired range, and that the second tube will break off when the voltage of said source reaches the lower limit of the desired range.

1,918,835. SAFETY SUPPORTING MEANS FOR BRAKE BEAMS. SETH A. CRONE, East Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a Corporation of New York. Filed Apr. 21, 1931. Serial No. 531,706. 6 Claims. (Cl. 188—210.)



1. In auxiliary supporting means for brake-beams, the combination with a truck member, of L-shaped hanger brackets, arranged with the leg portions rigidly secured to and extending downwardly from the truck member and the angularly bent lower portions extending outwardly away from each other to provide foot portions having horisontal bearing areas of considerable proportions, the leg portions having openings just above the foot portions a safety bar extending through the openings and resting on the foot portions, and means passing through the safety bar and foot portions for removably securing the safety bar to the foot portions.

1,918,836. STRAINER. ISAIE J. B. DEMERS, St. Paul, Minn., assignor to Superior Metal Products Company, St. Paul, Minn., a Corporation of Delaware. Filed Nov. 24, 1930. Serial No. 497,695. 3 Claims. (Cl. 210—159.)

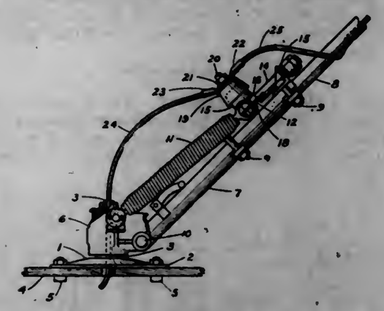


1. A strainer having in combination a casing for liquid formed with a circular outlet passage, a ring having a central opening in registry with said passage, a multiplicity of spaced, parallel and cylindrical rods forming a grid across said opening, said rods extending in the plane of said ring and being at least equal in thickness to the thickness of said ring and the spaces between rods being continuous and unobstructed for cleaning across said opening, a strainer fabric supported on said rods and means for gripping the margins of said fabric, said rods and gripping means constituting the sole support for said fabric.

1,918,837. TROLLEY BASE. FRED R. DIPPMAN, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Nov. 20, 1931. Serial No. 576,813. 7 Claims. (Cl. 191—70.)

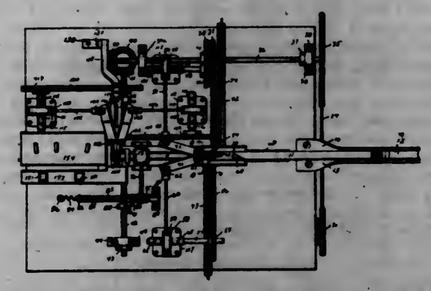
1. The combination with a trolley base having a pole pivotal in a vertical plane and to swing in a horizontal plane of a vertical passage through the base, a multi-

part cable extending through the opening, a support member mounted on and secured to the base, insulating means mounted on the support member and securing means



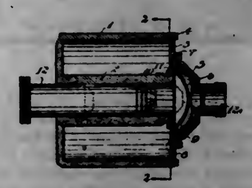
mounted on the insulating means to receive and to support the cable at a point distant from the said opening and to electrically connect the said cable parts.

1,918,838. PROCESS AND APPARATUS FOR BEVELING SQUARE TIRE PATCHES. CLARENCE E. DUNLAP, Sioux City, Iowa. Filed Feb. 12, 1932. Serial No. 592,578. 19 Claims. (Cl. 164—42.)



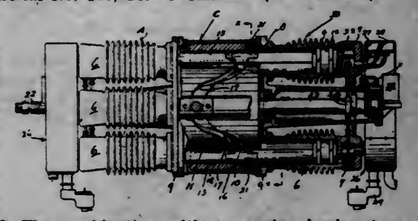
3. In a square patch beveling machine, a shearing bed, a reel from which strip rubber is guided over the bed, and a plurality of shears, a first pair of which are positioned to form a beveled edge lengthwise of the strip and a last pair of which are positioned to form a beveled edge at right angles to the lengthened strip.

1,918,839. TONE CONTROL FOR LOUD SPEAKERS. RICHARD R. DU PUY, St. Paul, Minn., assignor to Wright-De Coster, Inc., St. Paul, Minn., a Corporation of Minnesota. Filed Oct. 29, 1931. Serial No. 571,759. 5 Claims. (Cl. 181—31.)



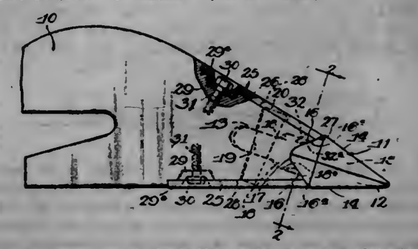
1. In a loud speaker having a vibratory diaphragm, an enclosed chamber on one side of said diaphragm, said diaphragm comprising one wall of said chamber, and means mounted to vary the size of said chamber to control the magnitude of low tone vibrations of said diaphragm.

1,918,840. INTERNAL COMBUSTION ENGINE. OLIVER H. ERIKSEN, Orland, Calif. Filed Apr. 1, 1930. Serial No. 440,726. 3 Claims. (Cl. 123—58.)



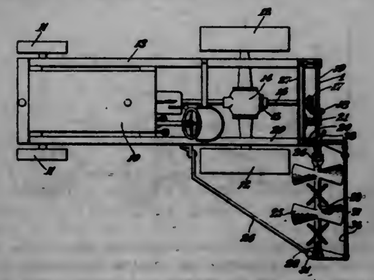
3. The combination with an engine having two sets of opposed cylinders arranged in axially aligned pairs on an intermediate casing, rigidly connected pairs of pistons working in said cylinders, and means in said casing operatively connected to the piston connections to convert the reciprocating movement of the pistons into rotary movement of a shaft; of a circular manifold mounted on the outer ends of each set of cylinders, each manifold being divided into an intake and an exhaust chamber, valves in the cylinder heads; means to connect said intake and exhaust chambers to the valves, said valves being transversely disposed relatively to the cylinders and being radial relatively to the said shaft, and means on the engine shaft to actuate the radial valves.

1,918,841. DIPPER TOOTH. FRED FINKL, Chicago, Ill., assignor to A. Finkl & Sons Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 4, 1932. Serial No. 641,156. 5 Claims. (Cl. 37—142.)



1. A dipper tooth including a base and a detachable tooth, said tooth consisting of a head and a rearwardly projecting shank, said base having a socket including a surface for receiving said shank in close fitting engagement, and a wearing plate fitting on the outer face of said base contiguous to said head, and with the forward edge of said wearing plate flush with and supplemental to said socket-forming surface of said base, and means for securing said wearing plate to said base.

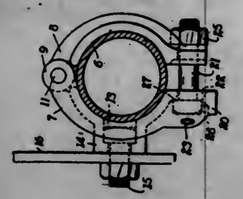
1,918,842. GRADING FRAME. BENJAMIN FRANKLIN, Jr., Dresher, Pa. Filed Apr. 30, 1930. Serial No. 448,501. 8 Claims. (Cl. 37—108.)



6. In combination, a trackless vehicle, a grading frame comprising a straight rotating shaft, impacting means

on said shaft, a rigid member connected to the outer end of said shaft, and threaded means at the other end of said member whereby said shaft may be adapted to trim banks.

1,918,843. CLAMPING BRACKET. EDWARD H. HOLMES, McKees Rocks, Pa., assignor to Fort Pitt Malleable Iron Company, McKees Rocks, Pa., a Corporation of Pennsylvania. Filed Mar. 21, 1931. Serial No. 524,341. 3 Claims. (Cl. 189—36.)



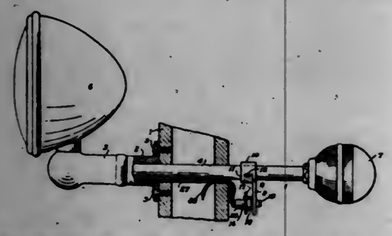
1. Bracket structure comprising a pair of clamping members connected together at one end, a recessed extension on the other end of one clamping member for receiving a bolt head, and an extension on the adjacent end of the other clamping member for engagement with a nut carried by the bolt, the bottom wall of the said recess being substantially flat and perforated for the reception of the bolt shank and having an inclined portion extending from the bottom wall of the recess to the outermost vertical wall thereof.

1,918,844. FOUNTAIN PEN. EDWARD HUGETZ, New York, N. Y. Filed May 11, 1932, Serial No. 610,651, and in France Nov. 12, 1931. 6 Claims. (Cl. 120—46.)



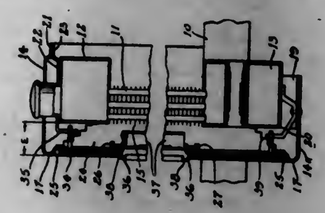
1. A fountain pen comprising an ink sac in its barrel having a restricted circumferential portion intermediate its ends the upper part of said ink sac adapted for manual compression after the removal of the cap avoiding the use of pressure bars and leaving a wide open communication between the squeezing area and the lower part of the sac to permit the storage of a large quantity of ink in comparison to the size of the barrel and the ready return of the sac to its normal shape after each compression, and an air tube in said ink sac.

1,918,845. ELECTRIC SWITCH MOUNTING FOR VEHICLE SPOT LAMPS. ROBERT H. HUMMERT, Dayton, Ohio, assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 13, 1929. Serial No. 406,858. 1 Claim. (Cl. 240—61.11.)



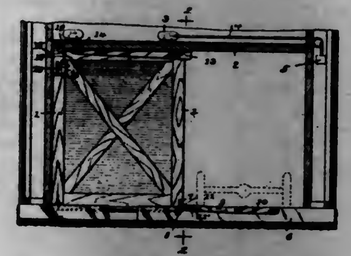
The combination with a supporting post, of a horizontal tube secured thereto, an electric spot lamp on one end of said tube, handle means on the other end of the latter for turning the lamp, an electric switch support, a sector shaped bracket plate to whose lower end the switch support is applied, and a boss on the upper end of said plate, said boss and the portion of the plate from which it projects being formed with a round hole to fit said tube, and wholly supporting the electric switch out of contact with said post between the latter and the handle means.

1,918,846. RADIATOR SHUTTER. UDO K. JOHANNSEN, Cortland, N. Y., assignor to The Brewer-Titchener Corporation, Cortland, N. Y., a Corporation of New York. Filed Dec. 30, 1931. Serial No. 583,938. 7 Claims. (Cl. 257—132.)



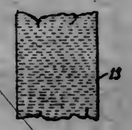
3. In a shutter assembly applicable to motor driven vehicles and adapted to control air-flow, the combination with a cellular radiator core provided with a front face of a shell serving to house said core and having an inturned trim flange whose marginal edge defines an air-flow opening communicating with the front core face, a pair of spaced chassis beams serving to support said shell, saddle strap means disposed to bridge the beams beneath said shell and which means are provided with forwardly extending lug means, a shutter framework including a fenestrated brim flange having its perimeter adjoined to the inturned edge region of the trim flange, shutters operatively assembled in said framework, to control the brim flange fenestration, and securing means cooperating with the aforesaid lug of the saddle strap and serving to detachably retain the assembled framework in the aforesaid adjoined relationship.

1,918,847. AUTOMATIC DOOR RELEASE MECHANISM. MICHAEL KIENBAUER, Forest Park, Ill. Filed Dec. 7, 1932. Serial No. 646,123. 2 Claims. (Cl. 292—94.)



1. In a door release mechanism, the combination of a door, a forward stop lug and a rearward stop lug carried by the door with said lugs arranged in spaced horizontal and vertical relation one to the other, and a movable latching member adapted for serial operation by the front and the rear wheel of a passing vehicle, said latching means being formed with a pair of holding notches adapted for serial engagement with the aforesaid forward stop lug and with a lateral stop lug adapted for stop engagement with the aforesaid rearward stop lug of the door, in attaining the serial release of the door in a closing movement of the same.

1,918,848. POLARIZING REFRACTING BODIES. EDWIN H. LAND, Norwich, Conn., and JOSEPH S. FRIEDMAN, Brookline, Mass., assignors to Norwich Research, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 26, 1929. Serial No. 358,288. 9 Claims. (Cl. 88—14.)



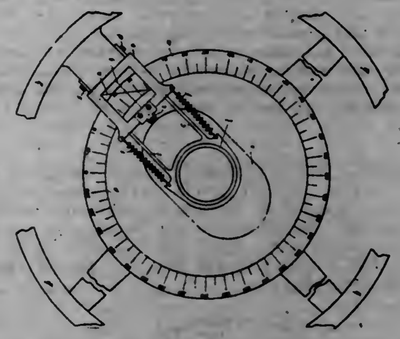
1. A polarizing refracting body, comprising a set transparent suspending medium of colloidal origin, and a plurality of granular crystalline bodies having their polarizing axes oriented to be in substantial parallelism and dispersed substantially uniformly through said medium and immovably embedded therein, the set suspension being adapted to retain its polarizing properties independent of external support.

1,918,849. MOTH-PROOF MOHAIR. LOUIS W. LARSON, Chicago, Ill. Filed Mar. 20, 1931. Serial No. 524,199. 2 Claims. (Cl. 154—46.)



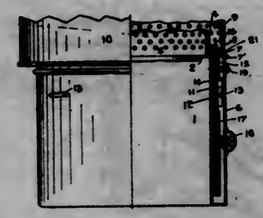
1. A moth-proof fabric of the character set forth having an animal fiber facing, and a thin flexible unwoven backing coextensive with the facing and composed of matted cotton fibers.

1,918,850. RADIO DIRECTION FINDER. AUGUST LEIB, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany, a Corporation of Germany. Filed July 20, 1929, Serial No. 379,608, and in Germany Aug. 6, 1928. 7 Claims. (Cl. 250—11.)



1. An arrangement for the direct reading of true bearing angles in radio direction finders comprising, a stationary bearing scale, a bearing wheel, a guide-way fixed to said wheel and extending radially thereof, a reading index slidably supported by said guide-way and adapted to be guided by the bearing wheel along the stationary bearing wheel, and means for displacing the reading index radially relative to the bearing wheel an amount representative of the correction required comprising a guide member fixed to said bearing scale.

1,918,851. WICK BURNER. WALTER C. LINDEMANN and GUSTAV C. LORENZ, Milwaukee, Wis., assignors to A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 1, 1931. Serial No. 541,348. 12 Claims. (Cl. 158—94.)



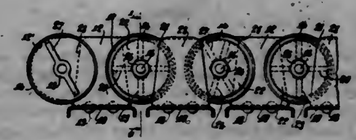
1. The combination with outer and inner concentric wick tubes having a space therebetween for a wick and a combustion chamber mounted thereon, of a collar supported below the top of and inside the outer wick tube having a portion extending inwardly to contact with a wick and upwardly to the top of said outer tube and a portion extending outwardly therefrom.

1,918,852. INTERNAL CYLINDER GRINDING TOOL. ERICH MARX, Frankfort-on-the-Main, Germany. Filed Oct. 29, 1932, Serial No. 640,285, and in Germany Feb. 9, 1931. 5 Claims. (Cl. 57—184.3.)



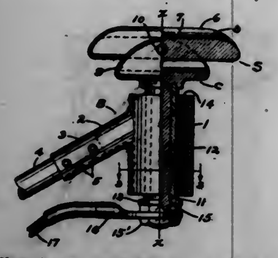
1. In an axially rotatable tool serving for the internal grinding of cylinders and filling the cylinder to be worked, the combination of a tool casing having an axial hollow space and superposed rows of radial bores, counter movable pistons under liquid pressure between their adjacent ends arranged in said hollow space, sets of bolts shiftably mounted in said radial bores adapted to be independently controlled by said pistons, and grinding bars each on the outer ends of each of two of said bolts.

1,918,853. ENDLESS TRACK FOR MOTOR VEHICLES. ALFRED F. MASURY, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 10, 1932. Serial No. 592,058. 8 Claims. (Cl. 305—10.)



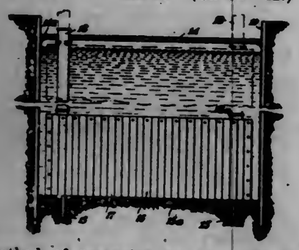
1. An endless track for motor vehicles comprising a series of articulated link members, tread members connected to said link members and means associated with said link members for resisting deflection of the track inwardly and outwardly, the said means for resisting deflection inwardly being adapted to act with greater force than that resisting deflection in the opposite direction.

1,918,854. TROLLEY HEAD. GEORGE A. MEAD, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 29, 1931. Serial No. 560,221. 10 Claims. (Cl. 191—591.)



1. A trolley head comprising a socket member and means to secure the socket to a support, a concentrically positioned tubular member within the socket member and having a common axis, a member interposed between the tubular and socket members and formed of a resilient material, and having a surface union with the said members, a support comprising a stem portion mounted in the tubular member and a head portion to receive a current collector and means to conduct current from the support.

1,918,855. METHOD OF CONSTRUCTING TUNNELS. JAMES C. MEEM; Brooklyn, N. Y. Filed June 23, 1931. Serial No. 546,190. 5 Claims. (Cl. 61—42.)



1. The method of preparing an approach trench for the approach portions of underwater tunnels which comprises driving unitary breast members at intervals along the side margins of the proposed trench, each constituted by a metallic beam with metallic sheet-pile sections, driving connected metallic sheet piles between and connected to said unitary members, connecting cross braces to opposite unitary members, and dredging or excavating between the trench walls thus formed.

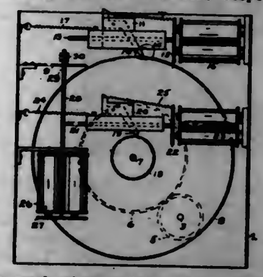
1,918,856. SAFETY RAZOR. FRANK W. MERRICK, Boston, Mass. Filed Jan. 22, 1932. Serial No. 588,091. 9 Claims. (Cl. 30—12.)



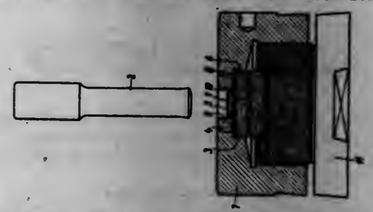
1. A safety razor blade having a longitudinally extending cutting edge, and means slightly back of said cutting edge forming a guard for the latter, said means constituting a unitary part of said blade and adapted to contact with the skin during the normal shaving operation.

1,918,857. REMOTE CONTROL SYSTEM FOR RADIO RECEIVING SETS. EDWARD H. MERRITT, Fort Wayne, Ind. Filed Oct. 5, 1929. Serial No. 397,466. 6 Claims. (Cl. 250—20.)

2. A remote control for radio receiving sets provided with a variable condenser, comprising a pair of ratchet wheels to rotate the plates of the condenser in the same direction, electrically actuated members to cause progressive movement of said wheels respectively, electrical circuits including the said members respectively, a remote dialing mechanism and means to selectively connect the mechanism to the said circuits whereby to send selected numbers of impulses of electrical current to the electrically actuated members selectively.

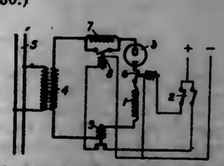


1,918,858. MATRIX FOR EXTRUDING METALS. OTTO METZGER, Nuremberg, Germany, assignor to Vereinigte Deutsche Metallwerke A.-G., Zweigniederlassung Süddeutsche Metallindustrie, Nuremberg-W., Germany. Filed June 30, 1932, Serial No. 620,234, and in Germany Apr. 30, 1932. 3 Claims. (Cl. 207—17.)



3. A matrix for the backward extrusion of metals over a co-operating plunger, consisting of an under part for the reception of a metal blank, a ring, separate from the under part, and adapted to be superposed thereon and to surround the blank, this ring only being in close contact with the under part around the lower edge of its inner peripheral surface, a clamping block formed with a cylindrical bore adapted to receive the under part of the matrix and with a conical bore adapted to receive the ring, and a base adapted to be screwed into the clamping block, and, when so screwed in, to force the under part of the matrix against the bottom of the ring and thereby to force the ring into its conical bore.

1,918,859. EDDY CURRENT TRACK BRAKING APPARATUS. AUGUST MEYER, Berlin-Schoneberg, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany. Filed Feb. 27, 1933, Serial No. 658,723, and in Germany Feb. 27, 1932. 9 Claims. (Cl. 188—150.)



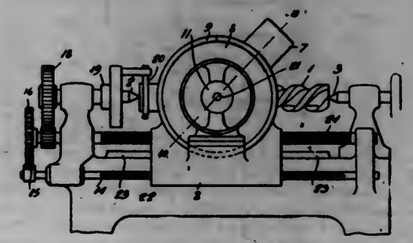
1. The combination in eddy current braking apparatus for marshalling yards of a brake winding, means for impressing an energizing voltage upon said winding and means for automatically reducing said voltage when a predetermined braking effort is attained.

1,918,860. CLOSURE SEAL FOR VERTICAL COKING RETORTS. CORBAN MINTNER, St. Louis, Mo., assignor to St. Louis & O'Fallon Coal Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 16, 1931. Serial No. 522,966. 2 Claims. (Cl. 202—252.)



1. A vertical coking retort closure seal comprising, in combination with the retort and its closure, an annular feed pipe affixed to and surrounding the end of said retort, means for supplying liquid to said feed pipe, and a channel in said closure adapted, upon closing of said closure, to receive said feed pipe, said feed pipe including means for delivering liquid into said channel whereby a liquid level is set up therein, said liquid level cooperating with said channel and said feed pipe to effect a liquid trap, whereby substantial entrance of exterior gases into said retort is prevented.

1,918,861. METHOD OF MANUFACTURING SCREWS. CARL OSCAR JOSEF MONTLIUS, Stockholm, Sweden, assignor to Aktiebolaget Imoindustrie, Stockholm, Sweden, a Corporation of Sweden. Filed Mar. 20, 1930, Serial No. 437,411, and in Germany Mar. 22, 1929. 5 Claims. (Cl. 90—4.)

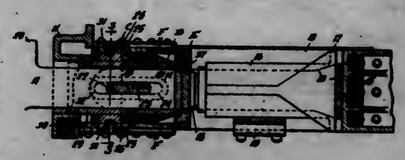


1. The method of generating screws having helicoidal surfaces, the transverse sections of which are cycloidal, including cutting the work by successive movements of a tool in straight lines in directions tangent to the desired helicoidal surfaces, while turning the work and shifting it axially with respect to the tool between successive cuts.

5. The method of generating screws having concave helicoidal surfaces, the transverse sections of which are cycloidal, including cutting the work by successive movements of a tool in straight lines in directions tangent to the desired helicoidal surfaces, while turning the work and shifting it axially with respect to the tool between successive cuts, said tool having a cutting portion arranged to shape the desired concave helicoidal surface during said straight line movements, and said tool being also formed to shape the edge of a thread substantially as a spiral gear face during said straight line movements.

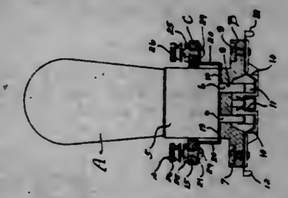
1,918,862. SWIVELED COUPLER CONNECTION. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed June 4, 1931. Serial No. 542,047. 12 Claims. (Cl. 213—12.)

1. In a draft appliance for railway cars, the combination with the fixed underframe structure of the car; of a yoke member; a coupler provided with the usual shank and having a keyed connection with the yoke member; and a carrier element within which the coupler shank is fitted, said element being laterally swingable



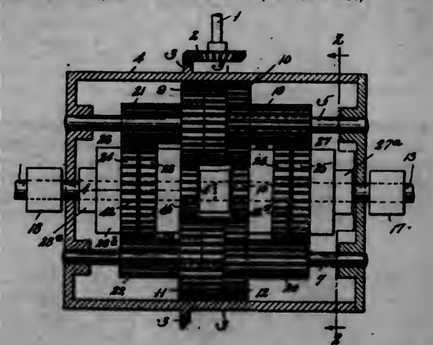
with reapect to the yoke and having top and bottom pivot members swiveled in bearing openings provided in the fixed underframe structure of the car.

1,918,863. ATTACHMENT FOR VACUUM TUBES. HERSCHEL G. PACK, San Francisco, Calif. Filed Aug. 2, 1929. Serial No. 383,018. 3 Claims. (Cl. 173—344.)



1. A tapping connector attachment for vacuum tubes comprising a supporting member having an opening therethru for receiving the base of the tube, independent contact strips extending below the supporting member and having inturned flat lower end portions for engaging flat upon the lower end of the tube base and apertured to receive therethru the contact prongs of the tube, and a binding post connecting the upper end of each contact strip to the supporting member.

1,918,864. DIFFERENTIAL MECHANISM. WALTER F. PRIEST, Arlington, Mass. Filed Mar. 13, 1933. Serial No. 660,467. 7 Claims. (Cl. 74—99.)



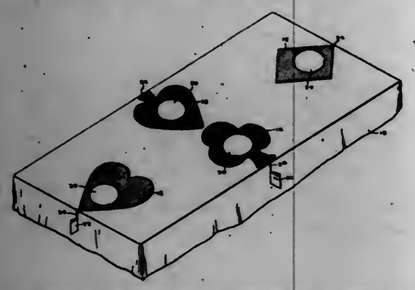
1. A mechanism of the character described comprising a pair of movable members; differential mechanism connecting said members; and automatic means to drive said members positively at all times, whether said members move at the same speed or at different speeds, said automatic means including a driving unit which comprises a driven member, driving means, a driving center adapted to operatively engage a shaft, another driving center mounted to rotate freely on said shaft and freely within the first-mentioned driving center and a third driving center free to revolve on said other driving center and being operatively connected to said driven member.

1,918,865. SPRING-PRESSED WEATHER STRIP AND ITS SPRING-PRESSED ACTUATOR. HARLEY M. PURDY, Wabash, Ind. Filed May 28, 1930. Serial No. 456,503. 8 Claims. (Cl. 20—67.)



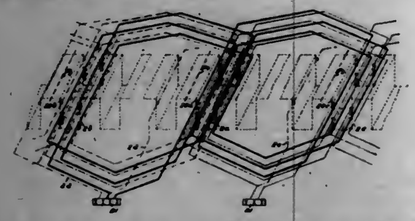
1. In a device of the character described, the combination of two elements spaced from one another, a closure member hinged on one of said elements and adapted to swing into slightly spaced relation to the second one of said elements, a weather-strip hinged on said closure member and provided with means to yieldingly hold it in a predetermined position, and a spring-pressed member having a cam-face to engage with said weather-strip and to press it out of said predetermined position and into a position for closing the space between said closure member and the second one of said elements.

1,918,866. DECORATIVE TABLE DEVICE. HOWARD C. REGET, Minneapolis, Minn. Filed June 6, 1932. Serial No. 615,564. 4 Claims. (Cl. 41—10.)



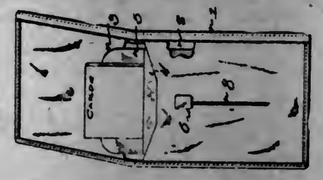
4. A decorative table device comprising a piece of flat material having a central hole for receiving the base of a plate with the sides of the material extending beyond the plate and shaped in the form of the suit designation of a playing card, the upper surface of the material being colored to correspond with the color of the suit.

1,918,867. DYNAMO-ELECTRIC MACHINE. GEORGE L. RINGLAND, Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Oct. 23, 1922, Serial No. 596,384. Renewed July 29, 1932. 30 Claims. (Cl. 171—206.)



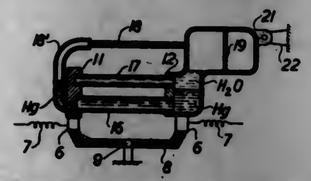
1. A winding coil for a dynamo-electric machine core of the non-salient pole type, said coil being normally of S-shape and comprising three spaced inductor portions with an intermediate inductor portion spaced from inductor portions at each side of said intermediate inductor portion a distance equal to approximately the polar pitch of the machine.

1,918,868. BILL FOLD, CARDCASE, AND THE LIKE. BALTUS ROLFS, West Bend, Wis. Filed Feb. 15, 1932. Serial No. 592,877. 1 Claim. (Cl. 150—39.)



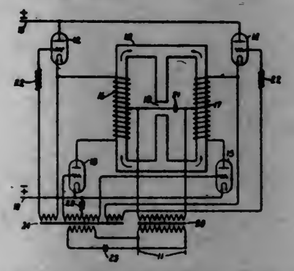
The combination with a billfold, a cardcase, or similar article, constructed of soft, pliable material, and including a pocket provided with a slot in one of its side walls, a container slidably mounted in said pocket and formed from a strip of relatively stiff material folded upon itself with one flap terminating short of the other, a flexible patch stitched to the outer face of the short flap, and a metal button comprising a restricted shank secured to said flexible patch and projecting through said slot, and a head carried by the outer end of said shank and projecting beyond the sides of said slot.

1,918,869. ELECTRIC SWITCH. SIGURD RUMP, Zurich, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a Joint-Stock Company of Switzerland. Filed Dec. 6, 1930, Serial No. 500,491, and in Germany Dec. 9, 1929. 6 Claims. (Cl. 200—114.)



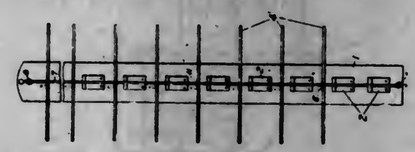
1. In an interrupter for electric circuits, a pair of electrodes comprising terminals for an electric circuit, a switch element disposed for connection with and disconnection from said electrodes to establish a conductive path therebetween, and a plurality of electrically conductive fluids operative to establish parallel paths for the flow of current between said electrodes upon connection thereof with said switch element, and operative to interrupt conductive connection therethrough between said electrodes upon disconnection of said electrodes from connection with said switch element.

1,918,870. ELECTRIC VALVE CONVERTING APPARATUS. CAMIL A. SABBAH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 19, 1931. Serial No. 563,802. 5 Claims. (Cl. 175—363.)



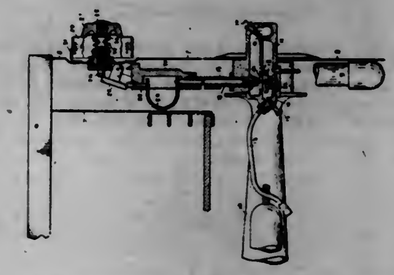
2. Apparatus for transmitting energy between direct and alternating current circuits comprising two parallel circuits for connection across said direct current circuit, each of said parallel circuits consisting of a pair of electric valves and an inductive winding and being provided with an intermediate terminal for connection to said alternating current circuit, and a magnetic core member provided with a pair of legs for said inductive windings and a third leg having an air gap.

1,918,871. DISPLAY RACK. AUGUSTUS LUKE SCHARIO and EDWARD PETER KIESWETTER, Kitchener, Ontario, Canada; said Schario assignor to May Evelyn Schario, Kitchener, Ontario, Canada. Filed Oct. 13, 1932. Serial No. 637,588. 4 Claims. (Cl. 211—51.)



1. A rack of the kind described, comprising in combination a backing plate, spring clips secured thereto in spaced relation, rectangularly looped rods secured to said backing plate in spaced relation to said clips, said clips and looped rods providing vertical and lateral supports for magazines and the like and locking means to prevent removal of said magazines from the rack.

1,918,872. TEMPERATURE CONTROL FOR GAS RANGES. ADOLPH T. SCHMIDT, Milwaukee, Wis., assignor to Lindemann & Hoverson Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 14, 1931. Serial No. 557,041. 7 Claims. (Cl. 236—15.)



1. The combination with an oven burner, of a fuel supply conduit therefor, a normally open valve in said conduit, a rod operatively connected with said valve, an adjustable pin spaced from said rod, a thermostatic element adapted to be tensioned; mounted on said rod and pin a spring member urging said valve closed, and means for actuating said pin for tensioning or untensioning said element.

1,918,873. METHOD OF AND COMPOSITION FOR STRIPPING DYES. ALLISON KENNETH SCRIBNER, Portsmouth, Va., assignor to Virginia Smelting Company, Portland, Me., a Corporation of Maine. Filed Sept. 11, 1929. Serial No. 391,980. 15 Claims. (Cl. 8—2.)

1. Process of treating colored textile fabrics and fibers and like materials which comprises the step of subjecting the same to a solution containing zinc hydrosulfite, and adding thereto a soluble acid sulfite of an alkali metal.

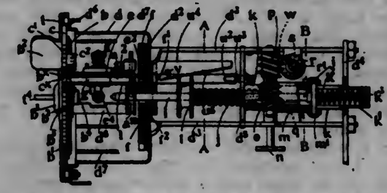
10. Composition for treating colored textile fabrics and fibers and like materials consisting substantially of the reaction product of zinc and sulfur dioxide in water, and a soluble acid sulfite of an alkali metal.

1,918,874. AQUATIC TOY. ELEANOR SHANNAHAN, Easton, Md. Filed Mar. 4, 1931. Serial No. 520,129. 4 Claims. (Cl. 46—40.)



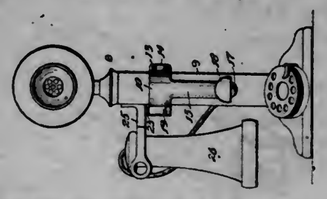
1. A water or aquatic plaything comprising a hollow body with its external walls of elastic material, the wall being compressible by pressure of the hand holding the hollow body simulating the external appearance of a natural creature and openings for the entrance and discharge, respectively, of water at separated points of the body, the elastic body walls having direct contact with water contained in the hollow body and exerting pressure directly upon such water to expel it in streams, said body being of a size for ready handling by the hands of a person.

1,918,875. GAS AND SIMILAR METER. STEPHEN SIMPSON, Exmouth, ERNEST WILLIAM SMITH, London, and SANDFORD ROBINSON, Liverpool, England, assignors to United Gas Industries Limited, London, England. Filed Feb. 7, 1931, Serial No. 514,228, and in Great Britain Feb. 12, 1930. 12 Claims. (Cl. 194—72.)



1. In prepayment mechanism for gas and similar meters adapted for operation by coins of more than one value, the provision of a coin holder casing, a coin holder for reception within said casing, an element movable relatively to and carried by said coin holder whereby the coin space is adjusted according to the size of the coin in use, a measuring element for operation by said coin holder, change gear connected to said measuring elements, for varying the gear ratio of the mechanism according to the value of the coin in use, an axially movable part adapted in its axial movement to adjust said change gear, and a stop member upon said coin holder movable into and out of line with the axially movable part in dependence upon the variation of the coin space the said axial movement being effected by said stop member on introduction of the coin holder into the casing.

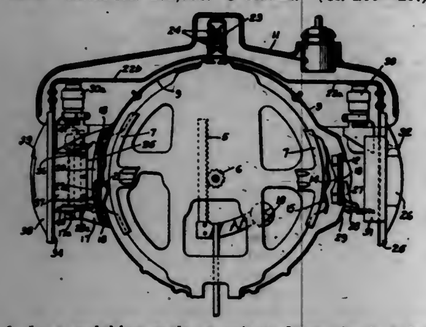
1,918,876. ILLUMINATING ATTACHMENT FOR TELEPHONES. ELIZABETH SMITH, St. Louis, Mo. Filed Dec. 14, 1931. Serial No. 580,744. 2 Claims. (Cl. 240—2.17.)



1. An illuminating attachment for dial telephone instruments, comprising, a clamp attachable to the standard

of the instrument, a switch on said clamp located so as to be positioned adjacent the receiver switch arm of the instrument and having an actuating element engageable with the arm when so positioned, one of the contact elements of said switch being completely housed within said clamp, a lamp mounted on said clamp in position to illuminate the instrument dial, and connections for detachably connecting said lamp and switch in a house circuit.

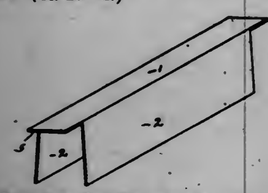
1,918,877. SCALE. SAMUEL MELBOURNE TEMPLETON, Dayton, Ohio, assignor to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Aug. 8, 1930. Serial No. 473,938. 5 Claims. (Cl. 265—29.)



1. In a weighing scale, a rotary drum chart, a hood over the chart, a track centrally provided on said hood, a carriage, and means for suspending the carriage for slidable movement on the track, the carriage having reading devices for simultaneously reading opposite sides of the chart, the hood having portions overhanging each of the reading devices and guarding and concealing the suspending means.

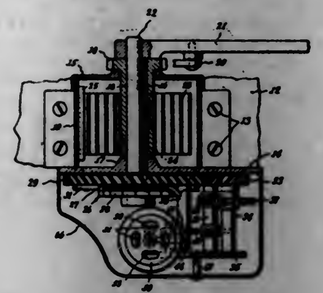
4. In a weighing scale, a rotary drum chart having duplicate sets of graduations arranged in parallel columns, a casing for the chart having sight windows, one at the customer's side through which one of the duplicate sets of graduations may be viewed and one at the merchant's side through which the other set may be viewed, a pair of reading devices, one at the customer's side and the other at the merchant's side, guiding and supporting means rigid with the casing for guiding and supporting the reading devices to move along the sight windows and axially of the chart to select the columns to be read on each side, and a shutter device connected to and extending from opposite sides of the customer's reading device, means provided on the customer's side of the casing and independent of the reading devices to guide and support the shutter device for movement longitudinally of the customer's sight window, said shutter being operable from the merchant's side of the scale by moving the merchant's reading device to conceal all the customer's chart columns except those selected by the merchant for the customer to read.

1,918,878. SLOT COVER. ERNEST E. TROSS, Youngstown, Ohio. Filed June 18, 1931. Serial No. 545,246. 1 Claim. (Cl. 29—1.)



In a slot cover for the purpose of covering a T slot in a work table, down-turned diverging side members formed on said slot cover, end wings formed at each end of said slot cover, substantially as described for the purposes set forth.

1,918,879. DRY DOORCHECK. JACK WELTON, New York, N. Y. Filed Feb. 25, 1931. Serial No. 518,174. 4 Claims. (Cl. 16—64.)



1. A device for the purpose indicated comprising a housing adapted for connection with a door, an arm adapted for operative connection with the door frame, a shaft journalled in the casing and having the arm mounted thereon, a spring enclosed by the casing and tending to impart angular or turning movement to said shaft, a gear loosely mounted on said shaft, a rotary member having means to retard its rate of rotation, and reduction gearing connecting said gear with said member, reversely disposed ratchet wheels secured to said shaft, and double-nosed pawls mounted on said gear and provided with springs selectively attachable to different anchoring points on said gear to selectively dispose either nose of the pawls to one of the ratchet wheels on said shaft.

1,918,880. HYDRAULICALLY OPERATED ELECTRIC SWITCH. JOHN WILLIAM WHITE, Detroit, Mich., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a Corporation of New York. Filed Nov. 23, 1931. Serial No. 576,897. 7 Claims. (Cl. 200—83.)

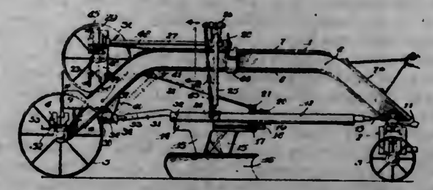


1. A hydraulically operated electric switch comprising a cup-like casing, an insulator head for closing the cup, electrical terminals extending through said head and forming spaced contacts on the inner face thereof, a bridge contact member and a cup of resilient flexible material within said cup-like casing having its annular wall held in sealing contact with the wall of said casing of fluid pressure and its head forming an actuating means for said bridge contact.

1,918,881. FRAME CONSTRUCTION FOR ROAD MACHINES. FRED D. WILSON, Harvey, Ill., assignor to Austin Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 6, 1932. Serial No. 591,361. 9 Claims. (Cl. 37—156.)

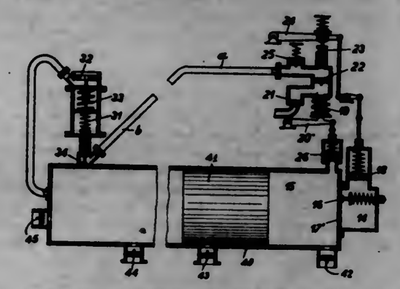
8. In a road machine, a frame, an axle, an operator's platform supported by said frame, and a working tool also supported by said frame and constructed and arranged to be positioned to one side thereof, the portion of said frame between the platform and the tool being

formed as a rectangular tubular section so constructed and arranged as to provide minimum interference with visibility of the tool from the platform, one end of the frame adjacent said platform being engaged with said axle, said end greatly exceeding in width the aforesaid portion of the frame, and so constructed and arranged as to stabilize the frame upon said axle.



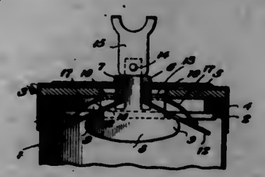
9. In a road machine provided with a front and rear truck and a road working tool, a frame therefor bridging said trucks and formed as a tubular member of rectangular cross section for the greater portion of its length, said frame forming a housing for the steering mechanism for said machine.

1,918,882. MEANS FOR REGULATING CRANKLESS MOTOR COMPRESSORS. ROMAN WITKIEWICZ and ADAM WICIŃSKI, Lwow, Poland. Filed Oct. 11, 1930. Serial No. 488,041, and in Poland Dec. 24, 1929. 3 Claims. (Cl. 230—56.)



1. Apparatus for controlling the fuel supply of crankless motor-compressors comprising in combination; means for injecting a predetermined quantity of fuel into the engine, an accumulator piston having a variable stroke; and means for controlling said fuel injecting means, by controlling the length of the stroke of the fuel accumulator piston, said controlling means being operated by a piston actuated by the pressure of the air cushion of the motor-compressor.

1,918,883. CAP. ANTHONY ZAY, Cleveland, Ohio. Filed Aug. 27, 1931. Serial No. 559,754. 4 Claims. (Cl. 220—25.)

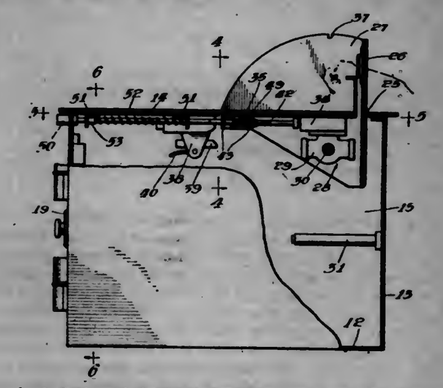


1. In a cap for a container, the latter having a neck with an inwardly extending lip, a head arranged in the cap, an arm formed with and rising from said head and extending through the cap, lock plates swingably carried by the head and normally disposed to pass into the neck below the lip, a lever pivotally secured to the outer end of the arm and being swingable at right angles with respect to the latter and against the cap to impart an upward movement to the head for forcing the lock plates in gripping engagement with the lip, and a washer in the cap and engageable with the lip to provide a leak proof connection between the cap and lip.

1,918,884. THORIUM DIOXIDE SOL AND METHOD OF MAKING THE SAME. RUDOLF ZELLMANN, Radebeul-Dresden, Germany, assignor to Chemische Fabrik Von Heyden, A. G., Dresden, Germany, a Corporation of Germany. Filed Aug. 12, 1930, Serial No. 474,882, and In Germany Nov. 18, 1929. 11 Claims. (Cl. 167—50.)

1. The process of making thorium dioxide sol suitable for the production of sharp contrasts in pyelography, said process comprising adding a colloidal soluble substance selected from a group consisting of starch, amylose, maltodextrine, amylodextrine and commercial dextrine, to unstabilized, positively charged acid reacting thorium dioxide sol.

1,918,885. SAFETY LOCKER. ALBERT L. ABBOTT and WILLIAM C. MILLER, Canton, Ohio, assignors to The Diebold Safe & Lock Company, Canton, Ohio, a Corporation of Ohio. Filed July 13, 1931. Serial No. 550,560. 15 Claims. (Cl. 109—1.)



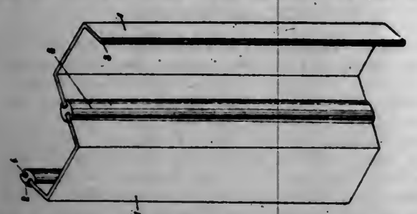
1. A device of the kind described comprising a housing, a closure member for said housing, a second closure member for said housing, an electro-magnetically operated lock for locking the first mentioned closure member in its open position, a second electro-magnetically operated lock for locking said second closure member in its closed position, a relay within said housing, means connecting said relay to a source of electrical energy whereby it is normally energized, a circuit controlled by said relay and including a switch device for energizing the first mentioned electro-magnetically operated lock, said switch device being controlled by the first-mentioned closure member and being position within said housing, and means connected to said switch device and including a slow-acting relay for controlling said second electro-magnetically operated lock.

11. In a device of the character set forth, a housing prvided with a top wall, said top wall having a portion thereof removed to provide an emergency opening, a closure member tiltably mounted in said housing and provided with angularly disposed walls adapted to serve as closures for said opening when said member is swung to either extremes of its movement.

1,918,886. SHEET PILE. JAMES EUGÈNE AMAND, Brussels, Belgium, assignor to Societe Anonyme d'Ougree Marihaye, Ougree, Belgium. Filed Dec. 29, 1926, Serial No. 157,811, and in Belgium May 31, 1926. 4 Claims. (Cl. 61—60.)

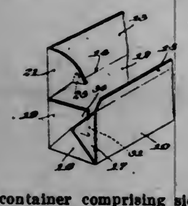
1. An assembled Z-shaped sheet pile formed by the connection of two single and symmetrical U-shaped elements

having flanges diverging exteriorly and provided each with a massive extremity the connected flanges being arranged in rectilinear relation in such a way that the median flange of the thus formed Z-shaped sheet pile lies in a



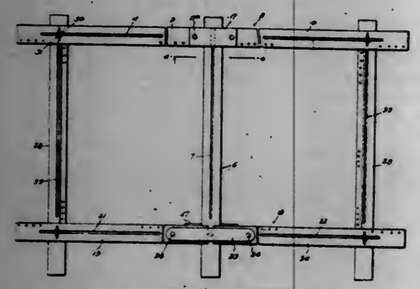
plane, a symmetrical H-shaped beam connecting said two U-shaped elements in the two depressions of which the edges of the flanges of the elements are rigidly embedded, before the ramming, thus forming a Z-shaped sheet pile constituted by three elements.

1,918,887. FOLDING CONTAINER OR BOX. GONZALO ANCIRA, San Antonio, Tex. Filed Oct. 9, 1931. Serial No. 567,928. 4 Claims. (Cl. 229—36.)



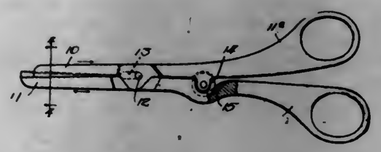
1. A foldable container comprising side walls and end walls formed of interlocking flaps projecting outwardly from the ends of the side walls and provided with notches extending in the same direction with the extreme inner ends of the notches meeting in a point located within the end walls, one of the flaps having a foldable tab defining one edge of its respective notch with the said edge engaging beneath an edge of a notch of an adjacent flap for rigidly locking the flaps and side walls against removal, the flap having the foldable tab being cut away along an arc to provide a rounded outer edge.

1,918,888. CURTAIN STRETCHER. ROBERT N. ASKA, Chicago, Ill. Filed July 13, 1932. Serial No. 622,299. 2 Claims. (Cl. 45—24.)



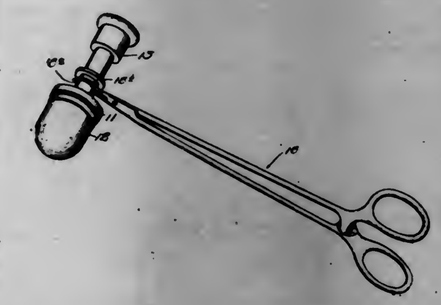
1. A curtain stretching device comprising a central bar having a longitudinally extending slot therein, a clamp embracing said bar nad composed of an upper link and a lower link, said lower link having a channel therein through which the bar passes, a bolt passing through the two links and through the slot in the bar for fastening the clamp in adjusted position on the bar, a pair of longitudinally slotted bars having their inner ends resting on the upper link of the clamp, a third link overlapping said inner ends of the pair of bars, bolts passing through the end portions of the last-mentioned link, through the inner end portions of the pair of bars, and through the two links of the clamp for pivotally connecting the pair of bars to the clamp, a second pair of slotted bars, upper and lower links receiving the inner ends of the last-mentioned pair of bars between them, bolts pivoted to the said last-mentioned bars and said last-mentioned links, the lower link of said last-mentioned pair of links having a channel therein for receiving a part of the first-mentioned bar, a bolt for fastening said last-mentioned bar to said channel portion of the link, said second pair of bars having longitudinally extending slots therein, a pair of longitudinally slotted end bars and bolts for connecting the end bars to the outer ends of the two pairs of slotted bars, one set of bolts passing through the slots of the second pair of bars and the other set passing through the slots of the first pair of slotted bars and through the slots in the end bars.

1,918,889. ARTERY FORCEPS. JOSEPH B. BACON, Macomb, Ill. Filed May 18, 1932. Serial No. 612,115. 1 Claim. (Cl. 128—322.)



A forceps of the character described, including; two jaws with handles, pivotally attached together, the pivotal attachment including a slot in one jaw and a pivot pin in the other jaw embraced by said slot, whereby relative sliding movement of said jaws with respect to each other is permitted; a cam member carried by one handle; and a cam surface on the other handle adapted to be engaged by said cam member when the handles are closed to cause relative sliding movement of the jaws with respect to each other.

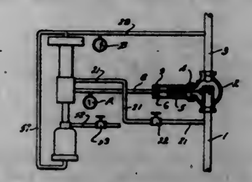
1,918,890. SURGICAL DEVICE. JOSEPH B. BACON, Macomb, Ill. Filed Aug. 8, 1932. Serial. No. 627,974. 5 Claims. (Cl. 128—303.)



1. A hollow inner cylinder adapted to support an elastic ring, an outer cylinder adapted to be telescoped over the inner cylinder to remove the ring therefrom, and a hollow piston adapted to carry intestinal walls and be inserted into the cylinders to engage one of said cylinders to telescope them, whereby the ring is removed from the inner cylinder and clasps the intestinal walls over the piston.

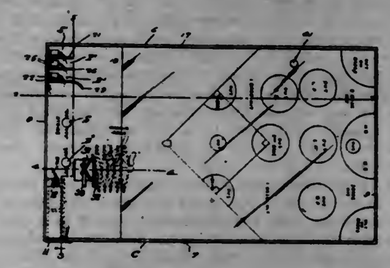
CARNEGIE LIBRARY OF ATLANTA

1,918,891. MASTER CONTROL SYSTEM. JOSEPH M. BARRETT, Cleveland Heights, Ohio, assignor to Bailey Meter Company, Cleveland, Ohio, a Corporation of Delaware. Filed Oct. 17, 1928. Serial No. 313,056. 15 Claims. (Cl. 137—139.)



1. Valve mechanism of the class described comprising a valve body having a chamber adapted for connection to a device for controlling a factor which tends to vary, a duplex valve member in said chamber controlled in accordance with variations in said factor, two opposed valve seats therefor, means for supplying fluid pressure to said chamber, said valve member by its relation to said seats controlling the fluid pressure in said chamber, and means for adjusting each of said valve seats with relation to the valve member, for the purpose described.

1,918,892. GAME. WILLIAM F. BEATTY, Woodside, N. Y., assignor of one-half to Charles Sakon, New York, N. Y. Filed June 30, 1931. Serial No. 547,945. 2 Claims. (Cl. 273—88.)

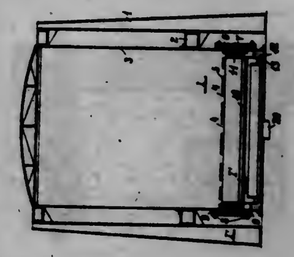


1. A game of the class described comprising a transparent panel, a bulb, means for moving the bulb to different positions under the panel, said panel having indicia marked thereon, and means for causing the bulb to be lighted so that it may be seen under which particular indicia said bulb may have been moved, said means for moving the bulb comprising a lazy tong mechanism, said means for lighting the bulb comprising a circuit with a pair of spaced spring contacts therein, a compartment in which the spaced spring contacts are located, and a ball of conductive material adapted to be rolled into the compartment for closing the circuit.

1,918,893. POROUS BODY. HERMANN BECKMANN, Berlin-Zehlendorf, Germany. Filed Feb. 14, 1929, Serial No. 340,028, and in Germany Feb. 17, 1928. 6 Claims. (Cl. 210—208.)

1. As a new material for filtering liquids, a highly porous body comprising a finely divided aggregate dispersed in a porous matrix in the form of a cured, colloidal rubber net of reticulate structure having microscopically visible, filter-size pores; the said aggregate constituting the major portion by volume of the said article and being sufficient in amount to impart its character to the said article.

1,918,894. GAS HOLDER OF THE PISTON CLOSURE TYPE. REINHOLD BERGFELD, Berlin, Germany. Filed Dec. 31, 1930, Serial No. 505,861, and in Germany Apr. 28, 1930. 17 Claims. (Cl. 48—176.)



1. In a gasholder of the piston closure type, the combination of a holder, a skirting constituting a downward continuation of the holder, a piston displaceable in the holder and also downwardly to a lowermost position within the skirting, a packing carried by the piston to bear against the inner wall of the holder, said skirting having at least one opening giving access to the packing substantially all round the skirting in the said lowermost position of the piston, and means normally closing said opening.

17. In a gasholder of the piston closure type, the combination of a holder having an opening substantially all round its lower part adapted to be normally closed, a piston displaceable in the holder, a packing carried by the piston to bear against the inner wall of the holder, closure means constituting a widened extension of the lower end of the holder and providing a working chamber from which the piston packing is accessible in the lowermost position of the piston, said means having a normally closed aperture giving access to the working chamber, upper and lower sets of guide rollers carried by the piston of which the upper set remain in engagement with the holder in the lowermost position of the piston, an immersion seal for the piston in this position preventing escape of gas from below the piston, said seal being located within the holder and means displaceable to prevent the piston entering the seal.

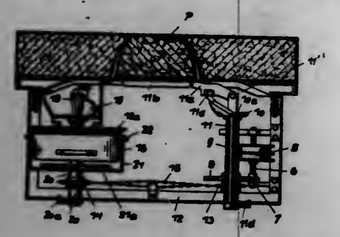
1,918,895. METALLIC LINING OF METAL BODIES. FREDERICK THOMAS BERSEY, ERNEST ARTHUR HARDY, and SIDNEY CHARLES NEWSON, London, England. Filed June 25, 1931, Serial No. 546,908, and in Great Britain Feb. 7, 1931. 1 Claim. (Cl. 148—16.)

The method of lining a brake drum which consists in positioning a lining element composed of an alloy of steel in said drum and subjecting said element to the action of nitrogen in the presence of heat to cause the same to "grow" and thus become tightly fitted in said drum.

1,918,896. CLOSET FOR SICK BEDS. HEINRICH BRUCH, Siegen, Germany. Filed June 20, 1930, Serial No. 462,521, and in Great Britain June 20, 1929. 2 Claims. (Cl. 5—90.)

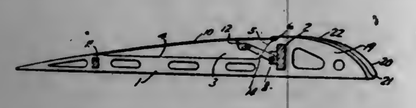
1. A sick bed with closet arrangement, comprising in combination a mattress having an aperture, two vertical rotatable hollow shafts, one on each side of said aperture, cam discs on each of said shafts, rotatable bolts extending through said hollow shafts, a bifurcated lever hinged on the upper end and an abutment connected rigidly to the lower end of each of said bolts, mattress filling carried by one of said levers, a chamber suspended on the other of said levers and a roller on each of said levers adapted to slide along the edges of said cam discs, said edges having a cavity by which said levers are driven to turn horizontally with said filling and chamber until said abutments bear against the bed frame and

prevent further turning, so that said cam discs may slide under said levers and their rollers, and swing them up or down, said cam discs being disposed with respect to each other in such manner, that, as said hollow shafts with cams are moved simultaneously through a linkage



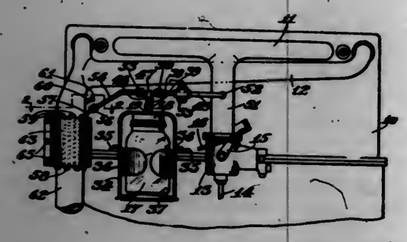
connecting them, said filling and said chamber are alternately moved to and into or from and out of the aperture in said mattress, so that said chamber is raised into the aperture when said filling is swung away from it and conversely.

1,918,897. AIRPLANE WING. LLOYD COLBURN, Coopersville, Mich. Filed May 16, 1932. Serial No. 611,558. 3 Claims. (Cl. 244—12.)



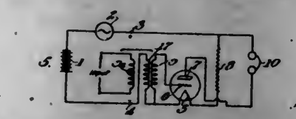
1. An airplane wing having a medial portion of its covering cut away transversely of the wing, the underlying ribs being also correspondingly recessed at their top sides, a flexible panel secured in position over the said opening and adapted to be flexed down to form a depression along the upper side of the wing, means for so flexing the said panel, and separate means for causing an air stream to flow back over the said depression.

1,918,898. INTERNAL COMBUSTION ENGINE. DANIEL L. COVERDW, Chicago, Ill. Filed Aug. 15, 1932. Serial No. 628,835. 8 Claims. (Cl. 123—190.)



1. In combination, an internal combustion engine, and including the fuel supply intake and exhaust pipe, of a liquid container, means for raising the liquid from said container in small particles, an air heating element in contact with the exhaust pipe of the engine, a pipe connection between said air heating element and said fuel supply intake of the engine, and an atomizer tube having a vertical intake portion in restricted communication at its lower end with said liquid raising means and a contracted discharge portion at its upper end extending into said pipe connection in the direction of the fuel intake of the engine.

1,918,899. ELIMINATING EFFECTS OF VARIATIONS IN CURRENT SUPPLIED TO AUDIONS. GEORGE B. CROUSE, Woodcliff, N. J., assignor, by mesne assignments, to Byrnes, Townsend & Potter, Washington, D. C., a Firm consisting of Charles H. Potter, James F. Pierce, and Richard L. Scheffler. Filed Dec. 27, 1926. Serial No. 157,311. 22 Claims. (Cl. 250—27.)



12. In apparatus for energizing an audion having a grid circuit, a cathode-heating circuit and a plate circuit, the combination with means for energizing one of said circuits from a source of direct current having alternating components of audible frequency, of means operable independent of the direct current potentials impressed upon said circuits for establishing in another circuit of said audion an alternating current of phase and magnitude counteracting in the plate circuit the effects of the alternating components in the said source.

1,918,900. BASIC PHOSPHATIC FERTILIZER AND PROCESS OF MAKING THE SAME. JAMES W. DEAN and JOHN H. DEAN, Knoxville, Tenn., assignors to Knoxville Fertilizer Co., Knoxville, Tenn., a Corporation of Tennessee. Filed June 30, 1932. Serial No. 620,287. 16 Claims. (Cl. 71—7.)

4. The process of producing a basic phosphatic fertilizer which comprises the steps of admixing acid phosphate with carbonates and a small amount of vegetable material, thoroughly mixing the already enumerated ingredients to form a homogeneous mass, aging said mass, and mechanically treating the entire mass in a continuous process to reduce all of the materials to a uniform consistency and to a state of fineness sufficient to permit all uncombined acids contained therein to chemically combine and become fixed, whereby the resulting product will remain indefinitely in a free running and drillable condition and subject to accurate chemical analysis throughout its entire mass.

14. A fertilizer comprising a mixture of acid phosphate and other fertilizer materials including carbonates, said mixture being aged and thereafter reduced to a fine state of subdivision, whereby a permanent homogeneous free drilling product such that chemical analysis will be substantially uniform throughout the mass is produced.

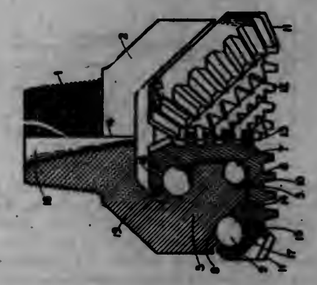
1,918,901. ELECTRIC SWITCH. FRED FARRELL, Elmwood Park, Ill., assignor to Electrical Engineers Equipment Company, a Corporation of Illinois. Filed Jan. 4, 1932. Serial No. 584,618. 18 Claims. (Cl. 200—16.)



1. An electric switch comprising two end insulating tubes, an intermediate insulating tube in telescopic relation to said end tubes, terminal electric contacts within and mechanically connected to said end insulating tubes respectively, an intermediate electric contact within and mechanically connected to said intermediate insulating tube and operative to electrically connect and disconnect said terminal contacts, end frames to which said end tubes are mechanically connected and by which said end tubes are held in alignment, an intermediate frame to which said intermediate tube is mechanically connected, said intermediate tube being in alignment with said end tubes,

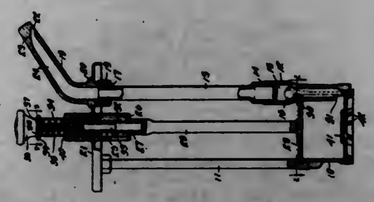
a support, mechanical means for relatively moving said tubes telescopically to relatively actuate said contacts to make and break circuit, and guiding means carried by said support and operatively connected to one of said frames to maintain said tubes and contacts in alignment during the operations of the switch.

1,918,902. CONICAL CUTTER DRILL. HAROLD WHEELOCK FLETCHER and RUDOLPH C. KULDELL, Houston, Tex., assignors to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Sept. 12, 1931. Serial No. 562,532. 7 Claims. (Cl. 255—71.)



1. A drill head, cutter shafts thereon inclined downwardly toward each other, a toothed roller cutter enclosing the end of each shaft, a spherical shaped member projecting from the extremity of said shaft, to space the cutter from said shaft and bearings adjacent the base of said cutter to space the cutter from said shaft.

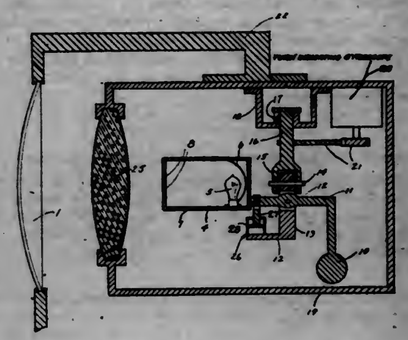
1,918,903. SIRUP PUMP. JOHN D. FLETCHER, Louisville, Ky. Filed Oct. 24, 1930. Serial No. 490,980. 1 Claim. (Cl. 225—35.)



A sirup pump having a pumping chamber, a piston operable in said chamber, an outlet from said chamber, a spout detachably secured to said outlet, said spout having a bore therethrough, the outer end of said bore being slightly and gradually curved downwardly so that the angle formed by the axis of said outer end of said bore and the axis of the bore of the spout is less than ninety degrees thereby providing an uninterrupted passage for the sirup as it is discharged from the pump, substantially as set forth.

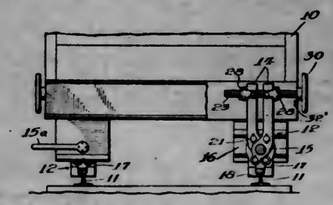
1,918,904. AEROPLANE ATTITUDE INDICATOR. JOHN O. GETTE, Jr., Yonkers, N. Y., assignor to Pioneer Instrument Company, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed July 21, 1930. Serial No. 469,505. 5 Claims. (Cl. 33—220.)

1. In a position indicating instrument for aircraft, a pendulus device mounted for movement about the longitudinal and transverse axes of the craft, a turn indicating gyroscope for orienting the pendulus device about the vertical axis of the craft, a projector including a source of light and means for forming an image simulating an aircraft, said projector being carried by and movable with said pendulus device whereby the aircraft image moves in



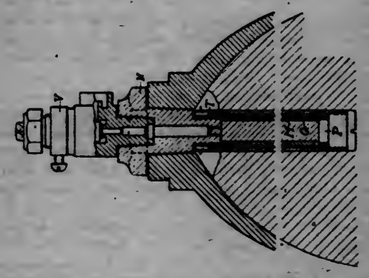
response to and in accordance with the motion of the craft about its three axes, and means for receiving said image.

1,918,905. RAIL CLAMP. CARL W. GRIMM, Oak Park, Ill., assignor to Henry Pratt Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 10, 1931. Serial No. 529,222. 4 Claims. (Cl. 188—43.)



1. A device of the kind described for locking a vehicle to one of a pair of rails upon which it travels, said device comprising a crank shaft journaled in the vehicle, a pair of levers pivoted on a crank of said crankshaft and provided with jaws, means for oscillating said crank-shaft, and means for bringing said jaws into clamping engagement with one of said rails.

1,918,906. SAFETY DEVICE FOR CONTAINERS FOR EXPLOSIVES, PARTICULARLY EXPLOSIVE GASES. HANS GROHMANN, Hirschfelds, Germany. Filed May 5, 1930, Serial No. 449,961, and in Germany July 24, 1929. 3 Claims. (Cl. 220—88.)

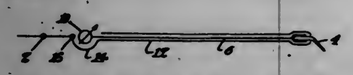


1. A safety device for explosive gases or containers of explosive charges, comprising a cartridge shell having a rigid perforated resistable stopper and a filler of loose material such as will not prevent the normal passage of gas from the container in which the cartridge is used,

but is adapted to be mechanically compressed by the shock resulting from an explosion and to thereby cut off the passage of the explosion gases to the container, and an outer shell around and spaced from the cartridge shell, so that a narrow space is formed between the two closely arranged surfaces of said shells so that the residue of the hot explosion gases which may pass through the loose material must pass through this narrow space before it can enter the container.

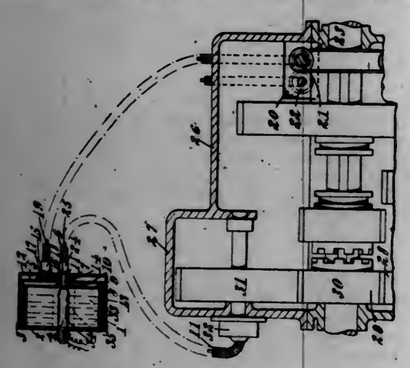
---

1 918,907. DIATHERMIC AND RÖNTGEN APPARATUS. ADOLF HELBIG, Berlin, Germany, assignor to Electricitäts-Gesellschaft "Sanitas" m. b. H., Berlin, Germany, a Corporation of Germany. Filed Mar. 5, 1931, Serial No. 520,438, and in Germany Mar. 12, 1930. 2 Claims. (Cl. 174—89.)



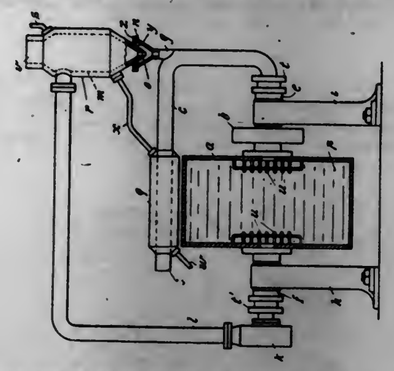
1. In apparatus of the class described, in combination, a current measuring instrument; a surgical instrument; an electrical conductor for electrically connecting said current measuring instrument and said surgical instrument; and metal protector means surrounding said electrical conductor upon all sides, said protector means being electrically connected to the receiving terminal of said current measuring instrument in order to protect the indications of said instrument against external electrical influences.

1,918,908. STROBOSCOPIC RELATIVE SPEED INDICATOR. ARTHUR JOSEPH HERONIMOS, London, England. Filed Jan. 6, 1931, Serial No. 507,033, and in Great Britain Jan. 18, 1930. 4 Claims. (Cl. 88—14.)



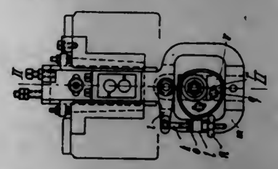
1. A stroboscopic indicator comprising in combination, two driving shafts, connections arranged for coupling said shafts to two rotating parts of a mechanism, a number of relative speeds of which it is required to indicate, an indicating member secured to one of said shafts and having a plurality of concentrically arranged sets of indications, one set for each relative speed to be indicated, each of which indications is inclined to its direction of movement, a rotatable shutter secured to the other said shaft and having a plurality of sets of apertures concentrically arranged thereon so that one set of indications is viewable through one set of apertures, which apertures are inclined oppositely to the direction of the indications, the ratio of the number of indications and apertures in each cooperating set is selected to be directly proportional to a relative speed ratio required to be indicated, which connections are so arranged and which analysing and indication members are so disposed that the slots and indications travel past one another in opposite directions relatively to the observer.

1,918,909. APPARATUS FOR DRYING AND CLEANING HIDES. PAUL HERTZSCH, Markranstadt near Leipzig, Germany. Filed Dec. 21, 1932, Serial No. 648,179, and in Germany Aug. 2, 1932. 11 Claims. (Cl. 149—24.)



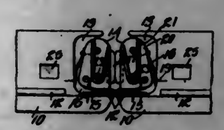
1. An apparatus for drying and cleaning hides through the medium of a gas current and solid particles suspended therein, comprising a rotary member for the reception of the hides, means for effecting a flow of gas through said rotary member, pneumatic means for separating the solid particles from the gas escaping from said rotary member, means for discharging the mechanically purified gas from the apparatus, and means for delivering the separated solid particles to the gas about to enter said rotary member.

1,918,910. DEVICE FOR CONTROLLING THE VERTICAL SLIDE ON DOUBLE ACTING BOLT PRESSES. CARL HILGELAND, Wuppertal-Ronsdorf, Germany. Filed Feb. 2, 1932, Serial No. 590,421, and in Belgium Oct. 27, 1931. 3 Claims. (Cl. 10—26.)



1. A device for controlling the vertical slide of double acting bolt presses, comprising in combination a crank shaft, a slide, a cam disc driven by said crank shaft, rollers on said slide engaging said cam disc one on the upper side and the other on the lower side, a bolt having an eccentric middle portion carrying said upper roller and concentrical end portions pivotally mounted in said slide, and an arm fixed on one end of said bolt adapted to adjust said bolt and consequently the portion of said upper roller.

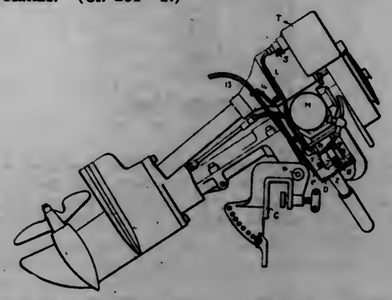
1,918,911. REFRIGERATOR CABINET. ROBERT W. HULL, Connersville, Ind., assignor to Rex Manufacturing Co. Inc., Connersville, Ind., a Corporation of Indiana. Filed Dec. 24, 1931. Serial No. 583,080. 6 Claims. (Cl. 20—35.)



4. In a structure of the kind described, door sealing means comprising sealing elements mounted on the edge

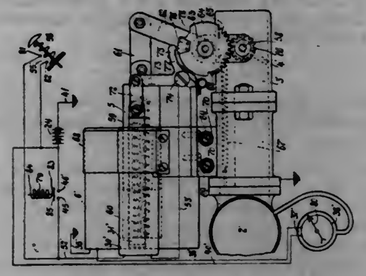
of said doors, means for retracting said elements as the doors are opened, and means for advancing said elements as the doors are moved to closed position, substantially as set forth.

1,918,912. DRIP PAN. CLARENCE P. HULST, Talbot County, Md. Filed Jan. 10, 1933. Serial No. 651,049. 8 Claims. (Cl. 261—1.)



1. In a drip pan for the float chamber of the carburetor of an outboard motor, the combination of a trough having one of its ends fitted over the top of said chamber; and a cup formed at the other end of said trough and fitted below said chamber.

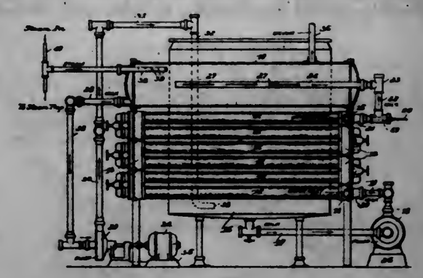
1,918,913. ADMISSION OF AIR TO THE INDUCTION PIPES OF INTERNAL COMBUSTION ENGINES. EINAR ISDAHL, Oslo, Norway. Filed Mar. 31, 1932, Serial No. 602,287, and in Norway Feb. 11, 1932. 9 Claims. (Cl. 123—124.)



1. An apparatus for preventing the formation of a vacuum in the cylinders of an internal combustion engine when the throttle valve is closed, comprising an opening, closed by a valve in the induction pipe between the throttle valve and the cylinders and means to open said valve, when the vacuum in the induction pipe exceeds normal idle running vacuum, said means comprising an electric magnet with an armature connected to said valve and a vacuum gauge, connected to the induction pipe and controlling the circuit, through which electric current is furnished to the said magnet, and a snap mechanism, serving to lock the said valve in open position and means controlled by the speed of the motor for releasing the said snap mechanism.

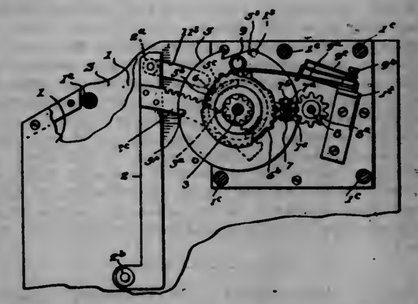
1,918,914. APPARATUS FOR TREATING LIQUIDS. JENS N. JACOBSEN, Alameda, Calif., assignor to The Pfaudler Co., Rochester, N. Y., a Corporation of New York. Original application filed Jan. 21, 1932, Serial No. 587,986. Divided and this application filed Aug. 19, 1932. Serial No. 629,527. 17 Claims. (Cl. 257—64.)

1. Apparatus for treating milk, comprising a closed system for the continuous circulation of the milk, including heat transfer means for pasteurising the milk, means for continuously circulating the milk through the



system, and means for subjecting the milk to subnormal pressure while circulating and pasteurising the same within the system.

1,918,915. FARE REGISTER. JAY M. JOHNSON, Chicago, Ill. Filed Mar. 2, 1931. Serial No. 519,613. 10 Claims. (Cl. 235—32.)



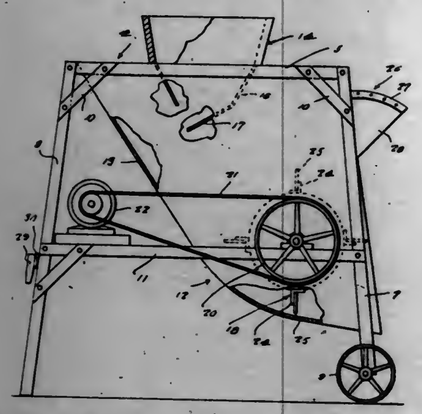
1. In mechanism of the character specified, a counter, a pinion for operating the counter, an oscillatory shaft, a mutilated gear on the shaft adapted to engage the pinion and cause it to advance the counter, the member also mounted on the shaft adapted to engage the pinion and cause it to set back the counter; coin actuated devices whereby the shaft is turned in the direction to cause the gear and the member to operatively engage the pinions; and means for turning the shaft in the opposite direction to return the parts to normal position.

1,918,916. MAGAZINE PENCIL. WERNER KOBLER and VICTOR KOBLER, Zurich, Switzerland. Filed Oct. 12, 1932, Serial No. 637,534, and in Germany Oct. 21, 1931. 4 Claims. (Cl. 120—18.)



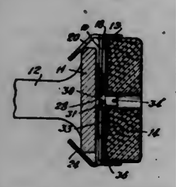
1. In a magazine pencil in combination a marking element magazine, a propeller pin for the marking elements, a withdrawable rotatable interiorly threaded feed sleeve for actuating said propeller pin adapted when withdrawn to retract said pin to the extent that a fresh marking element is adapted to move in said magazine in front of said propeller pin and when restored is adapted to move the fresh element from said magazine into the element guide bore of the pencil, the outer wall of said magazine being adapted to enclose the marking elements.

1,918,917. SOIL PULVERIZING AND REFINING APPARATUS. FRANK KOPRIVEA, Jr., Duquesne, and PETER HENRY ABBOTT, West Newton, Pa. Filed Sept. 10, 1931. Serial No. 562,156. 1 Claim. (Cl. 83—11.)



A soil conditioning, pulverizing and refining apparatus comprising a portable support, an open front casing suspended on said support and including a horizontal top having a feed opening, a pair of spaced parallel side walls, and a connective bottom wall between said side walls, said bottom wall being of curvate configuration and downwardly inclined to function as a chute, a rotary pulverizer mounted in the lower portion of said casing and cooperable with the discharge end of said chute, said pulverizer comprising a rotatably mounted shaft, and heads connected to said shaft, circumferentially spaced angle irons connected to the peripheral portion of said head, and longitudinally spaced teeth carried by said angle irons.

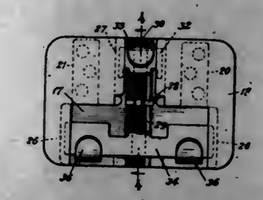
1,918,918. FOOT PEDAL ATTACHMENT. HERBERT LAMBERT, Brooklyn, N. Y., assignor to Kastar Specialty Mfg. Co., New York, N. Y., a Corporation of New York. Filed Dec. 10, 1931. Serial No. 580,006. 7 Claims. (Cl. 74—81.)



1. In a pedal attachment, the combination of a casing, a resilient pad secured thereon, a pair of movable members within said casing and adapted to protrude through the opposite sides thereof, jaw elements integral with said members, and means for moving said members simultaneously toward each other for clamping a foot pedal tread between said jaws, one of said movable members comprising a metallic plate having two leg portions connected by a raised bridge portion to clear the second of said movable members when said members are near the limit of their movement toward each other.

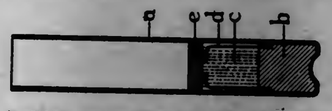
1,918,919. PEDAL PAD. HERBERT LAMBERT, Brooklyn, N. Y., assignor to Kastar Specialty Mfg. Co., Inc., New York, N. Y., a Corporation of New York. Filed Nov. 23, 1932. Serial No. 644,001. 6 Claims. (Cl. 74—81.)

1. A pedal pad comprising in combination a support, a facing of a resilient material secured thereon, a member movable transversely of the support and carrying a clamping jaw, a second member movable transversely of said support and carrying a pair of clamping jaws, and an operator for simultaneously moving said members and the clamping jaws carried thereby toward and away



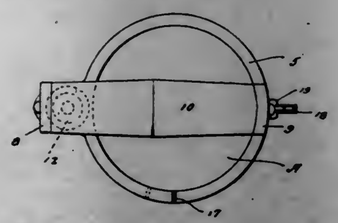
from each other by a unitary operating movement of said operator, said support being provided with means, independent of said operator, for positively guiding the ends and the intermediate portions of the members carrying the clamping jaws.

1,918,920. IGNITION COMPOSITION. HAROLD A. LEWIS, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 8, 1930. Serial No. 474,016. 6 Claims. (Cl. 52—4.)



1. An ignition composition as the top charge in a composition blasting cap containing a charge of a secondary detonating compound and a priming charge, said top charge comprising sulfocyanate, an oxidizing agent and a solid low ignition point fuel.

1,918,921. FRUIT JAR SEALER. MAURICE LIPPENS, Kewanee, Ill. Filed Nov. 17, 1932. Serial No. 643,106. 2 Claims. (Cl. 81—15.1.)

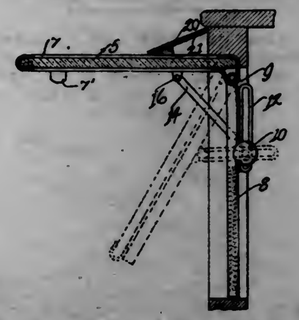


1. A sealing implement of the class described including a ring-shaped body member, a handle structure above said body member and attached thereto, a radial extension on said body member, a pin depending therefrom, a roller journalled on the pin, and having an annular beveled flange at the bottom end thereof for engagement with the lower skirt or flange of a cap.

1,918,922. WINDSHIELD CONSTRUCTION. JOHN S. MACMULLEN, San Francisco, Calif. Filed Nov. 29, 1929. Serial No. 410,563. 1 Claim. (Cl. 296—84.)

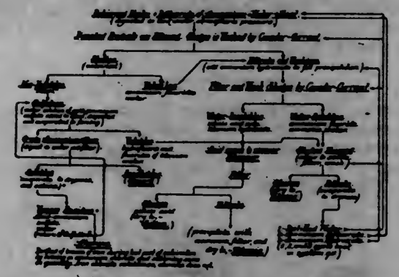
In a device of the character described, the combination of a motor vehicle having a windshield window frame, a pivoted frame mounted in said window frame, means for holding said pivoted frame in adjusted position about its pivot, a windshield carrying channel pivotally secured to said second mentioned frame, and spring means for causing said channel to move from a position parallel to said

frame to a position parallel to the direction of travel of the motor vehicle, said spring means including a link extending between said channel and said pivoted frame, a



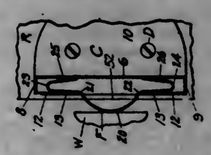
plunger pivoted to said link and adapted to reciprocate in said pivoted frame, and a spring engaging said plunger for the purpose specified.

1,918,923. METHOD OF RECOVERING ALUMINA FROM SILICATES. FRANCIS MITCHELL MCCLENAHAN, Monmouth, Ill. Filed Oct. 31, 1929. Serial No. 403,917. 14 Claims. (Cl. 23—142.)



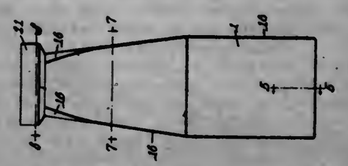
1. In a process for the production of alumina, comprising preparatorily digesting an aluminous silicate with a fluoride of ammonium to obtain a residue containing aluminum-ammonium fluoride, heating said residue, and treating the residue to remove impurities, said last mentioned treatment comprising digesting the residue with ammonium sulfate and heating the mass.

1,918,924. SPRING DOOR AND WINDOW CHECK. OCTAVIAN G. I. O'HEIR, Lowell, Mass. Filed Dec. 12, 1930. Serial No. 501,905. 4 Claims. (Cl. 16—85.)



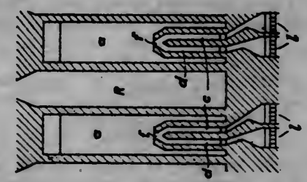
1. In a muffer for doors, the combination of a sheet metal casing formed of one piece of metal including attaching means, sides and a back from which integral top and bottom ends extend at right angles and are then bent and extend as holders short distances parallel with the back, whereby a spring opening is left in the front; with a bow spring positioned inside the casing and formed of a strip of spring sheet metal so bent out medially as to project through the spring opening in the front and to then extend under the holders and to then be doubled back so that the ends of the spring engage the back of the casing while the junctions between its bowed parts and its ends engage the tips of the front holders; and an auxiliary resilient check member between the spring and casing.

1,918,925. PAPER BOTTLE. RUTH OLIVER, New York, N. Y., assignor to Incorporated Paper Industries, a Corporation of New York. Filed May 26, 1931. Serial No. 540,118. 9 Claims. (Cl. 229—45.)



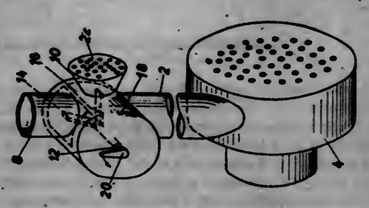
1. A paper bottle comprising separate angularly disposed sheet paper blanks joined to form the walls, and a tapered neck portion, said blanks lapping at one end to form an angular bottom, and a stiffening neck ring extending around the end of the neck portion provided with an interior annular seat.

1,918,926. REGENERATIVE COKE OVEN. CARL OTTO, Essen-Ruhr, Germany. Filed May 29, 1929, Serial No. 366,993, and in Germany May 29, 1928. 3 Claims. (Cl. 202—135.)



1. In a regenerative coke oven having an oven chamber and contiguous heating walls comprising vertical combustion flues, a pair of conduits arranged side by side and extending within each of said flues, one conduit of each of the pairs being adapted to supply preheated air and the other of each of said pairs being adapted to supply preheated gas, the conduits of each of said pairs each opening into a plurality of common mixing inlet ducts arranged at different levels above the bottom and communicating with each of said flues, and another conduit communicating with each flue and adapted to supply an alternative fuel gas thereto.

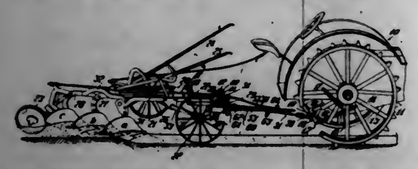
1,918,927. DRYING APPARATUS. WERNER OTTO, Berlin, Germany. Filed Jan. 26, 1931, Serial No. 511,254, and in Germany Jan. 30, 1930. 10 Claims. (Cl. 34—26.)



2. In hand and face drying apparatus operating with heated air or the like, in combination, a conduit; two discharge nozzles communicating therewith and positioned relatively to each other and vertically for free access by

the user, for face drying and hand drying respectively; a valve in said conduit adjustable to supply heated air current to the one or the other of said nozzles; blower means communicating with said conduit; and means to reduce the velocity of heated air current supplied to said face drying nozzle below that of air current supplied to said hand drying nozzle.

1,918,928. TILLAGE IMPLEMENT. WILLIAM L. PAUL, Berkeley, Calif., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Sept. 27, 1928. Serial No. 308,731. 42 Claims. (Cl. 97—100.)



1. A draft connection for farm implements provided with a frame by which the working devices are carried, such draft connection comprising a draft member adapted to be pivotally connected at the front with pulling means, and draft transmitting means connecting said draft member with said frame to move angularly relatively thereto, and coincidently endwise with respect thereto.

1,918,929. MEANS FOR MOUNTING THE SKINS OF FISH. ALBERT PFLUEGER, Miami, Fla. Filed Feb. 12, 1932. Serial No. 592,610. 1 Claim. (Cl. 35—12.)



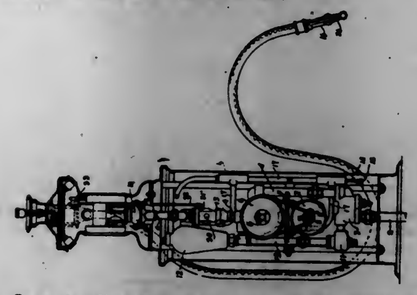
A core for the mounting of a skin of a fish comprising a central strip of wood and a number of strips of wood attached to each face of the central strip, said strips being slightly bowed longitudinally to form a concavity at one side of the core with its other side convex and said core being shaped to fit in the skin and having a notch in its head end for the mouth of the specimen, and a coating of plastic material entirely enclosing the core.

1,918,930. FIRE EXTINGUISHER. ALBERT B. PHISTER, Fort Thomas, Ky., assignor to The Phister Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 27, 1931. Serial No. 518,827. 4 Claims. (Cl. 299—96.)



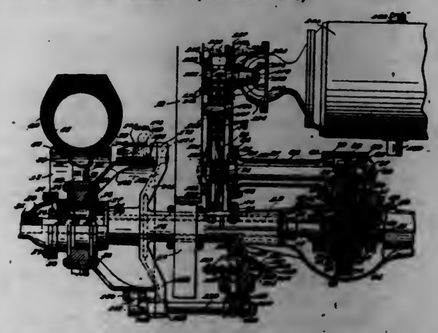
3. In combination with a fire-extinguisher casing affording inner and outer chambers open at their upper ends, an upper head closing the upper ends of said chambers, an air conduit in said head leading from the inner chamber to the outer chamber, a passage leading from the outer chamber and being of relatively large diameter as compared with said air conduit, valve chambers intercepting said conduit and passage, interchangeable pointed service valves in said valve-chambers equipped with rings of soft metal near their tips and with hard metal tips, the ring of soft metal engaging the valve seat at the liquid outlet conduit and the extreme tip portion of the other valve engaging the valve seat at the air conduit, and common actuating means for said valves.

1,918,931. GASOLINE PUMP AND A VALVE THEREFOR. FREDERICK F. RIKE, Dayton, Ohio, assignor to Buckeye Iron and Brass Works, Dayton, Ohio, a Corporation of Ohio. Filed Dec. 9, 1929. Serial No. 412,632. 7 Claims. (Cl. 221—95.)



1. In a gasoline dispensing apparatus, a casing, said casing having a valve seat therein, a valve in said casing having guide fins engaging the casing around the seat, said valve being adapted to occupy said seat and operable against the stream of gasoline through the casing to open a passageway for the gasoline, and means in said casing to guide and prevent said stream of gasoline closing said valve when it is open.

1,918,932. VEHICLE DRIVE. WILLARD F. ROCKWELL, Edgewood, Pa., assignor, by mesne assignments, to The Timken-Detroit Axle Company, Detroit, Mich., a Corporation of Ohio. Filed May 29, 1928. Serial No. 281,531. 14 Claims. (Cl. 180—71.)

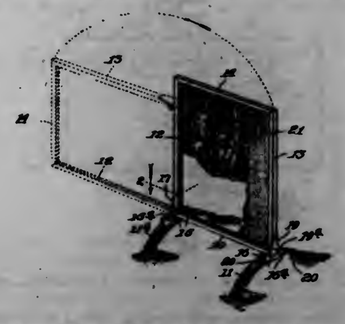


7. Drive means for a vehicle comprising an axle housing; drive axle sections supported in said housing; a torque arm carried by said housing and pivotally connected adjacent one side of the frame of said vehicle at a point relatively close to said housing; driving mechanism for said axle sections operatively carried by said torque arm and movable therewith about said pivotal connection; a driving motor pivotally suspended from said vehicle in proximity to said torque arm; and a universal connection between said motor and said driving mechanism.

1,918,933. STAND. EARL B. ROGERS, Chicago, Ill., assignor to Mid-West Forging Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 15, 1933. Serial No. 660,933. 1 Claim. (Cl. 40—125.)

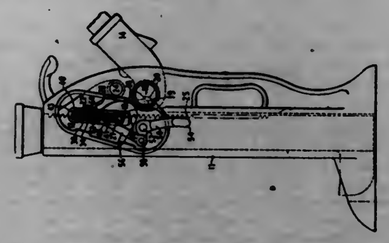
A stand, including; two parallel curved supporting members; a plate attached to each member having a pin-

receiving socket; a lower horizontal channel member with its ends secured to said plates; an upper three-sided frame of channel members open at the bottom; a plate carried at the lower end of each side of said three-sided



frame, each of said plates having a pin-receiving socket cooperating with the pin-receiving socket in one of the first-mentioned plates; and pins connecting the cooperating sockets.

1,918,934. LIFTING JACK. FRANK H. SCHWERIN, Bellevue, Pa., assignor to The Duff-Norton Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 24, 1933. Serial No. 658,459. 9 Claims. (Cl. 254—111.)



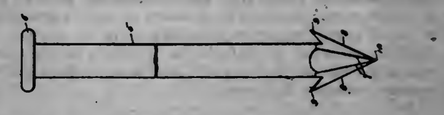
1. In a ratchet lifting jack, a lifting pawl; a holding pawl; a frame in which are two slots; a projection on the side of each pawl, each projection extending into one of the slots in the frame; and a spring between each projection and one end of the corresponding slot for urging the projection against the other end of the slot.

1,918,935. FURNACE. ORLIN N. SELLERS, Evanston, Ill. Filed Apr. 13, 1931. Serial No. 529,869. 5 Claims. (Cl. 110—97.)



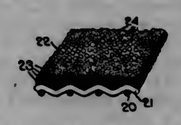
1. In a furnace, the combination with the upwardly extending flues thereof through which the hot gases of combustion pass, of carriers insertable into the flues through ends thereof, a body of heat-conducting material on each carrier and in heat-conducting contact with the wall of the flue, means for positioning said carriers in the flues and comprising a rod extending through said carriers crosswise thereof, and means engaging said rod for preventing displacement of said carriers lengthwise of said flues and lengthwise displacement of said rod.

1,918,936. FASTENING DEVICE. GEORGE F. SHEARMAN, Chicago, Ill., assignor of one-half to John D. Newton, Chicago, Ill. Filed Oct. 26, 1932. Serial No. 639,684. 1 Claim. (Cl. 85—30.)



A nail of the class described comprising an elongated cylindrical shank provided at one end with a flat head, and at a relatively opposite end with a driving point, said nail at the driving point thereof having on two opposite sides thereof flat tapered faces, said faces having their smallest ends merging into the point, and additional flat tapered faces extending in reverse directions from the first named faces a portion of the distance around the circumference of the nail and merging at diametrically opposite sides of the nail into elongated cutting edges converging toward and merging into the point of the nail; said additional flat tapered faces at their widest ends continuing upwardly and outwardly to provide invertcd pointed barbs having sharpened edges merging into and forming continuations of the aforementioned cutting edges; and the first mentioned flattened faces where they merge with said additional flat tapered faces forming additional elongated cutting edges converging at the point of the nail.

1,918,937. COATED SHEET MATERIAL PRESENTING AN INFLATED PEBBLED SURFACE AND PROCESS OF MAKING THE SAME. WILBUR N. SHELTON, Wellesley, Mass. Filed Jan. 4, 1932. Serial No. 584,691. 10 Claims. (Cl. 91—70.)



1. A flexible sheet of waterproof material comprising a flexible fabric base provided with a coating of vulcanized rubber composition presenting a continuous outer surface of substantially uniform thickness presenting a substantially uniformly pebbled surface formed of closely associated, convexedly distended, permanently hollow protuberances produced by the process of claim 3.

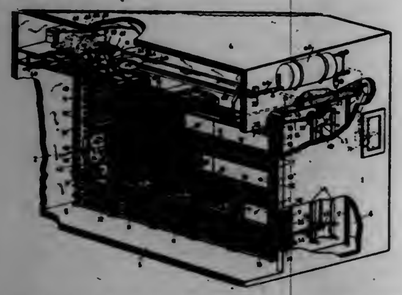
3. The process of producing waterproof flexible sheet material presenting a surface having a pebbled appearance which comprises thoroughly mixing into and disseminating throughout a plastic vulcanizable rubber composition a relatively small amount of fine granules of a selected inorganic salt capable of volatilization at a temperature below the vulcanizing temperature of said composition, applying a coating of the mixture, while maintained at a temperature insufficient to volatilize the granules of said salt, to the surface of a flexible sheet of material capable of restricting the escape therethrough of gases produced by volatilization of said salt, and subjecting the coated sheet to heat at a temperature sufficient to vaporize the granules of salt confined in said composition thereby producing closely associated, permanently distended hollow convexedly rounded protuberances upon the surface of the sheet.

1,918,938. AZO-DYESTUFFS CONTAINING CHROMIUM AND PROCESS OF MAKING SAME. FRITZ STRAUB, Basel, and HERMANN SCHNEIDER, Riehen, near Basel, Switzerland, assignors to Firm: Society of Chemical Industry in Basle, of Basel, Switzerland. Filed Nov. 5, 1931, Serial No. 573,800, and in Switzerland Nov. 14, 1930. 8 Claims. (Cl. 260—12.)

1. A manufacture of chromiferous dyestuffs, wherein a mixture of a chromium compound with orthohydroxyazo-

dyestuffs, which chromium compound is capable of forming complex chromium compounds, and which mixture contains at least two ortho-hydroxyazodyestuffs, of which at least one is an azodyestuff from a 1-diazo-2-hydroxynaphthalene-4-sulfonic acid and a naphthol, is heated in an aqueous solution, and in presence of such a proportion of alkali metal ions as will neither serve to salt out the dyestuff, nor exert an unfavorable influence on the tinctorial properties of the product, and then evaporating the reaction solution to dryness.

1,918,939. EGG TURNING MECHANISM FOR INCUBATORS. LA VERNE C. STURGIS, Springfield, Ohio, assignor to The Buckeye Incubator Manufacturing Company, Beachwood, Ohio, a Corporation of Ohio. Filed Sept. 26, 1930. Serial No. 484,617. 17 Claims. (Cl. 119—44.)



1. In an incubator having a plurality of superimposed egg trays, a frame-like reciprocatory structure having vertically-extending members arranged at the sides of the trays, means for reciprocating said structure, an egg turning device in each tray, and means for detachably connecting said devices with the vertical members of said structure, said means comprising members connecting with the egg turning devices and projecting over the upper edges of the trays.

1,918,940. ELECTRICAL MEASURING INSTRUMENT. RAY L. TRIPLETT, Bluffton, Ohio. Filed Dec. 10, 1931. Serial No. 580,018. 19 Claims. (Cl. 171—95.)

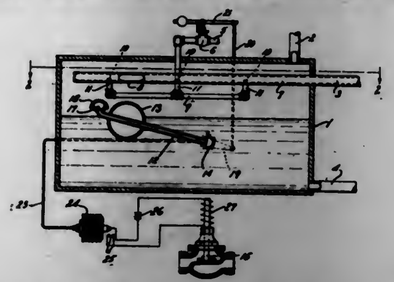


1. In an electric measuring instrument, a casing having an opening closed by a translucent plate, an indicator in said casing adapted to swing along said plate, and a light so arranged with relation to the indicator that the indicator will cast a shadow on said plate and thereby indicate the position of the indicator.

1,918,941. METHOD OF PRODUCING NITRATES. BRUNO UEBLER, Berlin, Germany. Original application filed June 17, 1929, Serial No. 371,707, and in Germany Sept. 17 1927. Divided and this application filed June 13, 1931. Serial No. 544,283. 1 Claim. (Cl. 23—102.)
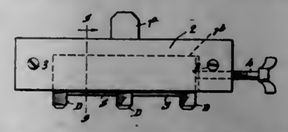
The process of producing nitrates from chlorides and nitric acid or nitrous gases comprising heating a metal chloride with nitric acid or nitrous gases and conducting the nitrosyl resulting from the reaction over calcium oxide at an elevated temperature to form calcium chloride.

1,918,942. AIR PURGE FOR WATER HEATERS. FRANK O. WALLENE, Lakewood, Ohio. Filed Mar. 26, 1932. Serial No. 601,394. 1 Claim. (Cl. 261—115.)



A feed water heater, comprising a chamber adapted to receive water to be heated, means for supplying water in spray form thereto, and purging means for removing air from the gas space above the water in said chamber, said purging means being sensitive to variations in temperature of foul air or other gas in said chamber.

1,918,943. HOLDER FOR DIES FOR PUNCHING STEREOTYPE PRINTING PLATES. HARRY B. WARD, Springfield Gardens, N. Y. Filed Oct. 16, 1930. Serial No. 489,132. 5 Claims. (Cl. 101—28.)



1. A holder for dies, comprising a body having a longitudinal recess in its underside adapted to receive a plurality of removable dies; an anvil on the upper side of the body; side plates closing the sides of the recess and having projections on their inner faces corresponding in contour to the side contour of the recess and extending thereinto; and means for clamping the dies in the recess.

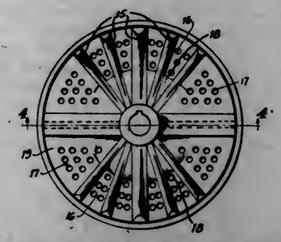
1,918,944. SCREW DRIVER ATTACHMENT. CYRUS B. WELLS and LOUIS G. SILVESTER, Scranton, Pa. Filed Mar. 23, 1933. Serial No. 662,360. 5 Claims. (Cl. 145—51.)



1. The combination with a screw driver shank having an annular recess near its forward end, of a sleeve slidable on the shank for engaging the screw heads, said sleeve having an internal recess and front and rear shoulders at the ends thereof, a helical compression spring in said recess engaging said front shoulder, and an expansible part fitting within the recess in the shank and frictionally holding the rear end of the spring against longitudinal displacement on the shank.

1,918,945. AGITATOR FOR WASHING MACHINES. CLEMENT R. WENGER, Leola, Pa. Filed Dec. 8, 1931. Serial No. 579,766. 7 Claims. (Cl. 259—101.)

1. Washing machine comprising in combination, a tub and an oscillating agitator, the latter including a vertical diametrically disposed partition dividing the tub into two compartments, and a bottom having radial ridges of different heights to provide an undulating contour on each side of said partition adapted when the agitator oscillates to under-run a bundle of clothes encountered



adjacent the receding side of said partition, and to direct them inclinedly upward against the approaching side of said partition.

1,918,946. MOCCASIN. JOHN J. WHITE, Chicago, Ill., assignor to The Florsheim Shoe Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 5, 1931. Serial No. 506,767. 12 Claims. (Cl. 12—142.)



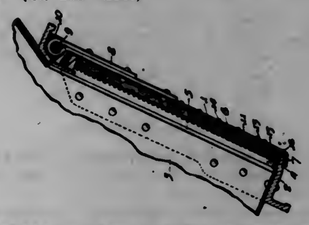
1. A method of forming a moccasin, which method comprises employing a vamp blank having excess material therein, folding the blank in such manner that the excess material forms overlapping portions extending along the bottom of the vamp, cutting through said overlapping portions to form abutting edges in the vamp, and securing said edges to each other to form a seam.

1,918,947. SECONDARY BATTERY. ERNEST THOMAS WILLIAMS, Golders Green, London, England. Filed Sept. 21, 1929, Serial No. 394,224, and in Great Britain Oct. 13, 1928. 10 Claims. (Cl. 136—36.)



10. A battery plate grid consisting of a sheet of expanded conducting metal, and active material carried by the grid on the portions of the grid at the meshes thereof.

1,918,948. RAILWAY CAR. WILLIAM E. WINE, Toledo, Ohio. Filed Mar. 18, 1931. Serial No. 523,543. 14 Claims. (Cl. 105—280.)



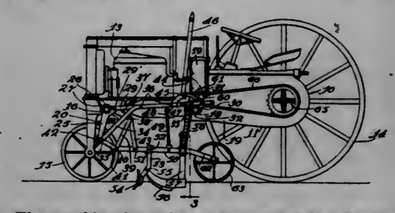
1. A railway car having a hopper provided with a lading discharge opening, a hinged door for closing the opening, and means forming a seal between adjacent portions of the door and hopper when the door is in closed position, said means involving a flexible metal plate having a portion extending inwardly from the inner face of the door and adapted to be subjected to the pressure of the lading for maintaining said means in sealing position.

1,918,949. WELL STRAINER. GORHAM W. WOODS, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Oct. 5, 1931. Serial No. 566,855. 3 Claims. (Cl. 166—5.)



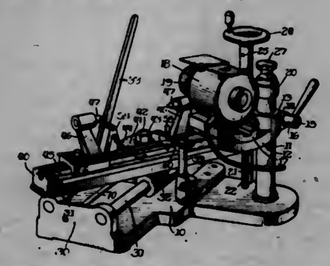
1. A well strainer having a cylindrical straining wall made up of alternate flat and transversely corrugated strips of sheet metal secured together, and connecting collars formed thereon at each end.

1,918,950. COMBINATON PLANTER AND CULTIVATOR. HERMAN E. ALTGELT, South Bed, Ind., assignor to Oliver Farm Equipment Company, a Corporation of Delaware. Filed July 6, 1931. Serial No. 548,751. 13 Claims. (Cl. 97—47.)



1. The combination with a tractor having front steering means and rear traction means, of two transversely extending implement supporting beams secured to said tractor, tool carrying beams located on the opposite sides of the tractor and adjustably secured to said transversely extending beams, means mounted on one of said transverse beams for adjusting said tool beams, and an earth working tool located under the longitudinal center of the tractor and secured to said transversely extending beams, and means for operatively connecting the tool under the tractor with the adjacent beams whereby said center beam may be adjusted simultaneously with the two adjacent tool beams.

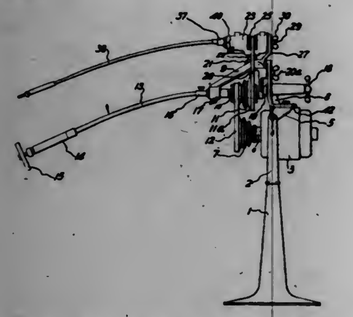
1,918,951. GRINDING MACHINE. CARL J. ANDERSON, Chicago, Ill., assignor of fifteen per cent to Carl U. Johanson and fifty-one and two-thirds per cent to Erik Borg, Chicago, Ill. Filed Jan. 26, 1931. Serial No. 511,195. 5 Claims. (Cl. 51—123.)



1. A machine for grinding helical-blade milling cutters or the like comprising, in combination, a frame, a carriage slidably mounted on said frame, means mounted on

said carriage for supporting the cutter with its axis parallel to the direction of movement of said cutter, means mounted on said frame for grinding the cutter, and a finger mounted on said frame arranged to abut against a blade of the cutter to cause rotation of the cutter in accordance with the pitch of the helix as the carriage is moved, said cutter-supporting means having a rotatable member adapted to receive the shank of the cutter and mounted on ball bearings, so that when the cutter is of a smaller diameter than the diameter of the inner race of said bearing, the cutter may be freely turned by said finger.

1,918,952. FLEXIBLE SHAFT BENCH GRINDER. ALWIN B. BACHMANN, Brooklyn, and WILLIAM KRAUSE, Bronx, N. Y., assignors to Pratt & Whitney Company, Hartford, Conn., a Corporation of New Jersey. Filed Oct. 17, 1930. Serial No. 489,338. 3 Claims. (Cl. 51—170.)



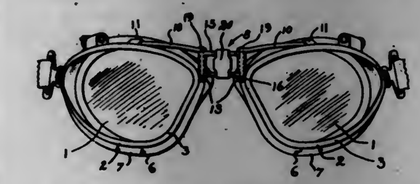
1. A flexible shaft bench grinder of the character described, wherein the motor and flexible shaft driving connections therefrom are suspended in a yoke for movement in a vertical plane, pulleys on the motor shaft, a jack shaft adapted for axial drive of a flexible shaft at normal speeds, pulleys on the jack shaft for driving the latter by means of a belt from one of the motor pulleys, and a high speed flexible shaft drive comprising a spindle adapted for axial drive of an auxiliary flexible shaft, a pulley on said spindle adapted to be driven by a belt from one of said pulleys on the jack shaft, the arrangement being such that the auxiliary flexible shaft is driven at relatively high speed, and means for shifting the motor and the associated flexible shaft driving connections transversely of the pivotal suspensions in said yoke for balancing the suspended parts relative to the pivot.

1,918,953. OPHTHALMIC MOUNTING. NELSON M. BAKER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Sept. 10, 1929. Serial No. 391,537. 7 Claims. (Cl. 88—47.)



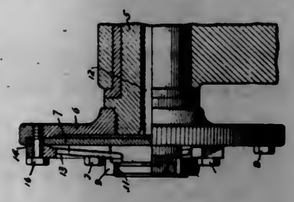
1. In an ophthalmic mounting, a pair of splint lens holding members connected by a bridge member, said splits being located above a horizontal plane connecting the mechanical centers of the lens holding members and extending normal to the tangent of each holding member at said location, and endpiece member adjacent one of the ends of the split members, said endpiece member having an opening therein, a temple connection adjacent the other end of the split members having an opening therein aligned with the opening in the endpiece member, a temple pivotally connected to the temple connection and means in the aligned openings for securing the endpiece member and the temple connection together, the axis of said securing means being substantially normal to the plane of the split and angularly related with the axis of the pivot of the temple so that the pull of the securing means is in a direction substantially normal to the split and in the plane of the lens holding member, said axis of the temple pivot lying at an acute angle with the axis of the securing means and converging towards each other below the connection when the device is positioned as worn on the face of the wearer.

1,918,954. GOGGLE. NELSON M. BAKER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Original application filed Oct. 18, 1927, Serial No. 226,900. Divided and this application filed Aug. 27, 1930. Serial No. 478,151. 2 Claims. (Cl. 88—44.)



1. In a device of the character described, a pair of lens holding members each having a relatively long pivot support capable of producing in effect two independent pivot bearings separated one from the other—a bridge member pivotally connected with each pivot support and overlying each other and slidable one on the other and operable means for clamping the two bridge members together as desired to regulate the distance between the two lens holding members, the bearings of said pivot supports being sufficiently long to prevent sagging of one lens holding member with respect to the other to maintain the alignment of the lenses in the lens holding members.

1,918,955. CHUCK. FRED J. BECHERT, Stamford, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 27, 1930. Serial No. 491,563. 6 Claims. (Cl. 279—46.)



1. In a device of the character indicated, a chuck body, a diaphragm, chuck jaws on said diaphragm, means for flexing said diaphragm to move said chuck jaws, a work stop, and a common means for rigidly holding said work stop and said diaphragm on said chuck body.

1,918,956. CIGARETTE DISPENSING DEVICE. FRED R. BELT, Chicago, Ill. Filed June 25, 1930. Serial No. 463,620. 6 Claims. (Cl. 312—78.)

1. A dispensing device including a body having a discharge opening therein and an article receiving trough alined with said discharge opening, bosses in said body at one side thereof, a downwardly inclined supporting plate mounted on said bosses and including a guiding portion at the lower end thereof, ribs on the side of said body opposite said bosses and having guiding surfaces thereon extending to said article receiving trough and cooperating with the guiding portion on the supporting plate to provide an opening through which articles carried by said supporting plate may pass one at a time to move along said guiding surfaces to said article receiving trough, passage preventing means below the supporting

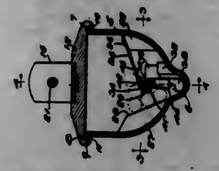


plate and cooperating with the guiding surfaces to prevent passage of articles to said article receiving trough, a plunger mounted in said body, a sleeve on said plunger and connected to said passage preventing means, means connecting said sleeve to said plunger for movement therewith, and yieldable means urging said plunger and sleeve into a predetermined position whereby when said plunger is moved against the action of said yieldable means movement is imparted to said sleeve to withdraw said passage preventing means from passage preventing position

---

1,918,957. CATALYST AND PROCESS FOR THE PRODUCTION THEREOF. ULRIC B. BRAY, Palos Verdes Estates, Calif., assignor to Atmospheric Nitrogen Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 13, 1930. Serial No. 495,426. 24 Claims. (Cl. 23—162.)

1. The process of producing a cobalt catalyst which comprises preparing a solution of a cobalt salt, adding an alkaline precipitant to said solution in amount sufficient to precipitate a portion only of the cobalt, separating the precipitate from the solution, and preparing a cobalt catalyst from the thus separated solution.

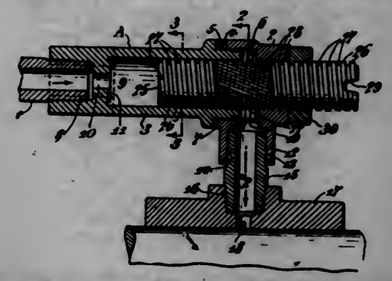
1,918,958. PROCESS OF UNITING MATERIALS. WILLIAM COLINA, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Sept. 30, 1931. Serial No. 565,996. 3 Claims. (Cl. 49—81.)



1. The method of securing a metal ferrule to a glass tube which comprises positioning the end of said tube within said ferrule, inserting a ring of soldering metal around said tube within said ferrule, heating the same to expand said ferrule relatively to said tube and melting said soldering metal to fill the space between said ferrule and said tube, and then cooling the assembly to harden the soldering metal and contract said ferrule relatively to said tube to cause said ferrule to press said metal against said glass.

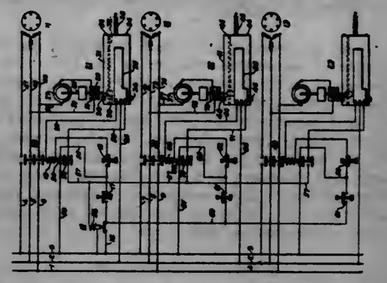
1,918,959. ADJUSTABLE VALVE. JOHN F. CULP, Philadelphia, Pa., assignor to Ideal Lubricator Company, Philadelphia, Pa., a Corporation of Delaware. Filed May 21, 1930. Serial No. 454,261. 6 Claims. (Cl. 137—75.)

2. An adjustable valve device for controlling the flow of a grease lubricant to a bearing to be lubricated, said device comprising a two-part housing, means for connecting the said parts together, the interior of the outer end portion of one of said parts being provided with a helical thread, the said last mentioned part beng provided with an opening in a side which is in communication with the interior thereof, a pipe for supplying lubricant to said housing, a pipe having connection with said housing and being in communication with the said opening for supplying lubricant from said housing to said bearing, and a valve member having a helical thread slidably engaging



the wall of the housing and which is in engagement with the helical thread upon the interior of the said outer end portion of one of the parts of said housing, the presence of said helical thread upon said valve member providing a helical groove, and the said valve member being so related to the said housing that said pipe for supplying lubricant to the housing and a portion of said groove are at all times in free and unobstructed communication with the said opening regardless of the position to which the said valve member may be adjusted in said housing.

1,918,960. TIMING DEVICE FOR LAUNDRY EXTRACTORS. ROBERT S. ELBERTY, Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 28, 1931. Serial No. 519,098. 5 Claims. (Cl. 172—239.)

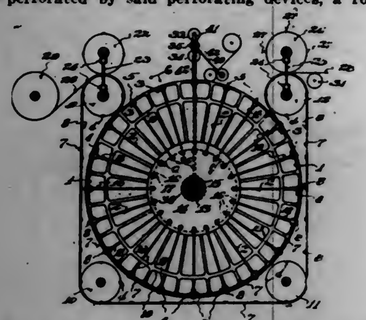


3. An electrical control system for controlling the starting and stopping of a plurality of motors being supplied with electrical energy from a common source, a plurality of motors, manually operable means for initiating the starting of one motor, electric means energized by the operation of the manually operable means for preventing the starting of any one of the other motors, time controlled means for deenergizing the said electric means, thereby permitting the starting of a second motor, and means responsive to time for stopping the operation of each motor after selected predetermined intervals of time.

1,918,961. MACHINE FOR APPLYING REENFORCING EYELETS TO PAPER. JOHN FAGG FOSTER, Dallas, Tex. Filed Jan. 22, 1931. Serial No. 510,476. 4 Claims. (Cl. 93—90.)

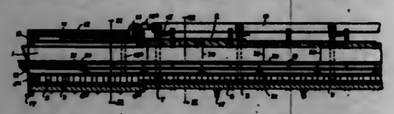
1. Apparatus for affixing reenforcing eyelets to paper including a rotary element having a series of radially

spaced, cam operated perforating devices, guide rolls disposed about said rotary element carrying an endless belt having perforations corresponding with the operative ends of said perforating devices, means to traverse a paper web about said rotary element between said belt and said rotary element whereby to move the same into position to be perforated by said perforating devices, a rotating



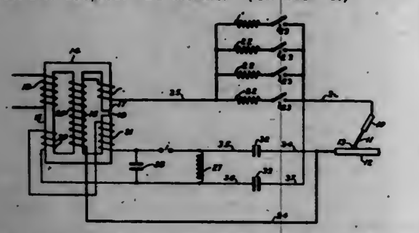
moistening drum normally in contact with said paper web, a reenforcing eyelet feeding mechanism including means for feeding gummed eyelet material and means for punching said material preparatory to its application to said paper web, means associated with said cam operated perforating devices for retaining said eyelets during their passage from said punching means and means for cutting said web in sheets of predetermined size.

1,918,962. ANNEALING LEER. PAUL L. GEER, Bellevue, Pa., assignor to Amco, Incorporated, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 21, 1930. Serial No. 462,708. 9 Claims. (Cl. 49—47.)



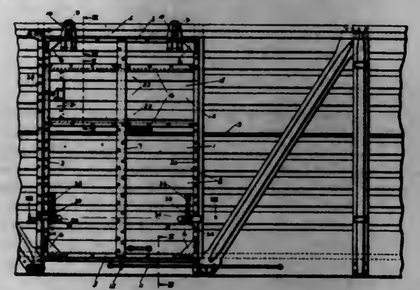
1. A leer for treating glass ware comprising an annealing tunnel, a combustion chamber at the top and a combustion chamber at the bottom of said tunnel and external thereof, a heating flue associated with one wall of said tunnel and communicating with one of said combustion chambers, exhaust means for said flue and chambers, and means for directing the flow of products of combustion through said chambers and flues from the front of said chambers to control the temperature at different portions of said tunnel by initiating the highest temperature at the front of the chamber and tunnel.

1,918,963. ARC WELDING APPARATUS. ERVYL M. GLENN and ALBERT M. WIGGINS, Sharon, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 26, 1930. Serial No. 498,365. 14 Claims. (Cl. 219—8.)



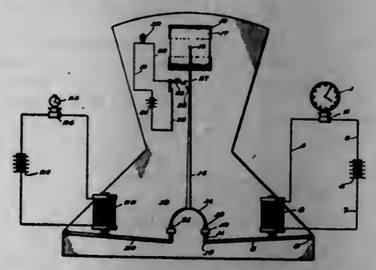
1. An arc welding apparatus comprising, in combination, welding electrodes adapted to strike an arc, a transformer for supplying low-frequency current to the electrodes for maintaining the arc, an auxiliary source of high-frequency current connected permanently across the arc and means inductively related to said transformer and adapted to be energized only on flow of low-frequency current to the arc for energizing said high-frequency source.

1,918,964. CAR DOOR. FREDERICK J. HERTER, East Cleveland, Ohio, assignor to Camel Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 9, 1929. Serial No. 412,596. 7 Claims. (Cl. 20—22.)



1. In a stock car having a door opening and an upper deck and a lower deck, a sliding door mounted upon said car for closing said opening, said door having spaced guides opposite one deck forming guideways, an auxiliary door slidingly mounted in said guideway, a slotted post at the front of said doorway and a latch on said auxiliary door engageable in the slot in said post for latching said auxiliary door thereto while said main door is opened for access to the lower deck.

1,918,965. WATCH TIMER. GUNNAR D. GUSTAFSON, Chicago, Ill. Filed Feb. 1, 1932. Serial No. 590,190. 3 Claims. (Cl. 234—1.5.)

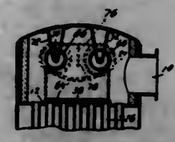


1. A device for detecting the difference in rates of vibration of separate sounds consisting of independent sound responsive elements, a lever connected for vibration with each of said sound responsive elements, and a recording means connected with one of said levers for movement in one direction, and with another of said levers for movement in another direction.

1,918,966. APPARATUS FOR TREATING GAS. ANDREW M. HARKNESS, Nyack, N. Y., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed June 20, 1930. Serial No. 462,525. 4 Claims. (Cl. 257—224.)

1. A waste heat boiler comprising a vertical casing, headers in said casing spaced from the ends thereof to provide chambers at the top and bottom of the casing, an inlet for hot gases connected to the lower chamber, an outlet for the gases connected to the upper chamber, tubes connecting the chambers through which the hot

gases pass from said inlet in the lower chamber to said outlet in the upper chamber, an inlet and outlet for water and steam connected to the space within the casing between said chambers and surrounding said tubes, and a member located in the upper chamber to which the out-



let for the gases is connected and above the ends of said tubes, said member being movable vertically and so constructed and arranged that when lowered the ends of a portion of said tubes are successively closed off leaving other tubes unobstructed.

1,918,967. PROCESS OF MANUFACTURING CHLORHYDRINS. ROBERT M. ISHAM and OTTO SPRING, Okmulgee, Okla., assignors to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 24, 1931. Serial No. 564,067. 6 Claims. (Cl. 260—157.)

1. The process of making an alkylene chlorhydrin which comprises treating an alkylene dichloride with sulfur trioxide at a controlled low temperature below 45° C., subsequently hydrolyzing the chlor-alkyl-sulfurichloride thus produced, and separating a constant boiling chlorhydrin-water mixture from the product of the hydrolysis.

1,918,968. ROLLING MILL. ROBERT M. KEENEY and JOHN F. FEAM, Midland, Pa. Filed Jan. 12, 1928. Serial No. 246,181. 26 Claims. (Cl. 80—32.)

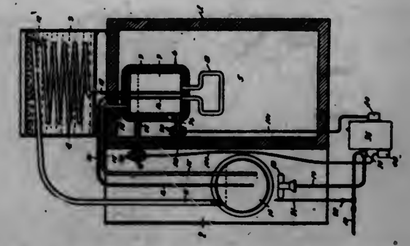


8. In a rolling-mill for the manufacture of hot-rolled thin metal strips, the combination with reducing rolls, of a winding-reel adapted to receive the strip from the rolls, means for securing the strip to the reel, a motor detachably connected to the reel for rotating the reel and causing it to wind up the strip, means for disconnecting the motor, means for returning the strip to the rolls and thereby causing reverse rotation of the reel, and means for automatically stopping such reverse rotation at a predetermined point.

11. In combination with a mill, a mill table on either side of the mill arranged to support material while the same is rolled back and forth through the mill, means for effecting coiling of the material on either side of the mill as it issues therefrom, and pinch rolls for engaging the issuing material prior to the coiling thereof, the pinch rolls being so arranged as to be out of the way of material rolled back and forth on the mill tables.

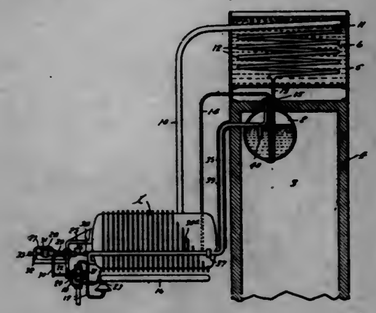
1,918,969. AUTOMATIC CONTROL FOR INTERMITTENT ABSORPTION REFRIGERATION APPARATUS. DAVID F. KEITH, Cleveland Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 20, 1931. Serial No. 545,800. 18 Claims. (Cl. 62—9.)

1. In refrigeration apparatus of the intermittent absorption class, in combination with the generator-absorber and the receiver-evaporator and the communicative connections between them essential to a complete operative cycle, means for heating the generator-absorber, control mechanism for the heating means, thermostatic means for governing the action of the control mechanism, and a receptacle independent of the aforesaid connections and which is in communication with the receiver evaporator



and is otherwise closed and into which liquid flows from the receiver-evaporator upon attaining a predetermined elevation therein, said thermostatic means being in heat exchanging relation to said receptacle.

1,918,970. AUTOMATIC CONTROL FOR ABSORPTION REFRIGERATING MACHINES. DAVID F. KEITH, Cleveland Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 20, 1931. Serial No. 545,801. 23 Claims. (Cl. 62—5.)



1. In an absorption refrigerating machine, a refrigerating system including a generator-absorber, a receiver-evaporator, and a conduit joining the generator-absorber to the receiver-evaporator the presence of liquid within which is dependent upon the pressure conditions in the system, heating means for the generator-absorber, and mechanism responsive to the presence of liquid in said conduit for rendering the heating means effective.

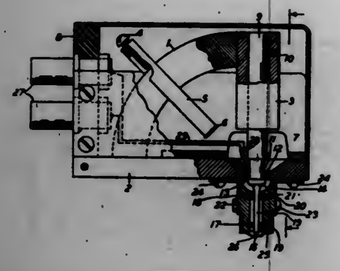
1,918,971. INSULATION COMPOUND. ARCHIE R. KEMP, Westwood, and JOHN H. INGMANSON, Bloomfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 18, 1930. Serial No. 421,872. 5 Claims. (Cl. 106—13.)

1. An insulating composition composed of gutta percha, deproteinized natural rubber, and from 1% to 20% of paraffin hydrocarbon wax having a melting point between 60° and 85° C.

1,918,972. PHONOGRAPH REPRODUCER. JOHN H. KING, Amityville, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 12, 1930. Serial No. 501,824. 6 Claims. (Cl. 179—100.41.)

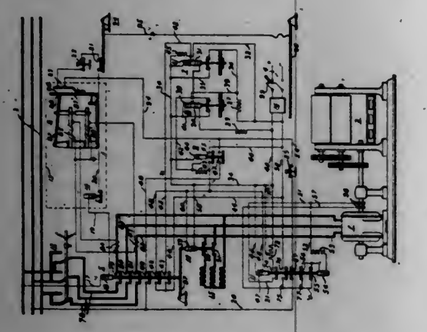
6. In a phonograph reproducer, a stationary structure and a moving structure in operative relation thereto and

comprising a generating element, a stylus connected to the element and upper and lower resilient stylus supports,



the lower support being of lower lateral stiffness than the upper so that a lateral displacement of the stylus produces no substantial lateral displacement of the element.

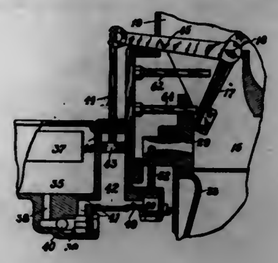
1,918,973. MOTOR CONTROL SYSTEM. REESE T. KINTZING, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 4, 1930. Serial No. 441,527. 6 Claims. (Cl. 172—289.)



1. In a control system for synchronous motors, a source of alternating-current power, a synchronous motor, connecting means disposed to be energized by current from the alternating-current power source for connecting the motor to said power source, a field winding for said motor, a source of direct-current power, means connected to the direct-current power source for connecting the field windings to the source of direct-current power, a dynamic-braking circuit for said motor, means connected to the direct-current power source for establishing the dynamic-braking circuit for the motor upon deenergization of said connecting means, and means responsive after an interval of time for maintaining the connection of the field windings to the direct-current power source for a definite time after the operation of the means for establishing of the dynamic-braking circuit.

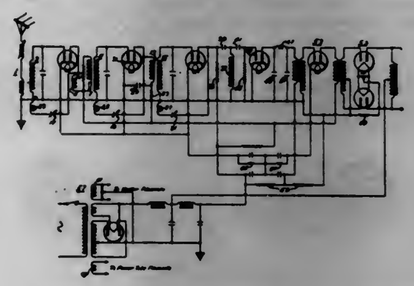
1,918,974. DOWN DRAFT CARBURETOR. CHARLES H. KIRBY, Flint, Mich., assignor to Marvel Carbureter Company, Flint, Mich., a Corporation of Illinois. Filed May 31, 1929. Serial No. 367,211. 10 Claims. (Cl. 261—34.)

1. In a carburetor, a downwardly discharging mixing chamber, a flap valve controlling the admission of the major quantity of air thereto, a venturi controlling the admission of primary air thereto, a common air inlet for both air supplies, a choke valve controlling said air inlet, a fuel supply chamber, separate fuel supply conduits



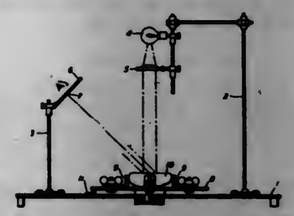
discharging into the separate air supplies entering said mixing chamber and accelerating pumps associated with each supply conduit.

1,918,975. RADIO AMPLIFIER. VERNON D. LANDON, Boonton, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 18, 1930. Serial No. 445,291. 3 Claims. (Cl. 250—20.)



1. A high-frequency circuit comprising amplifying means and a detector, means in combination with said circuit for neutralizing feed-back within the broadcast range of frequencies, and means, for increasing the frequency range of neutralization of said circuit, said means comprising the combination of a capacitative load on said amplifying means and a fixed resistance-choke coupling between said amplifying means and said detector.

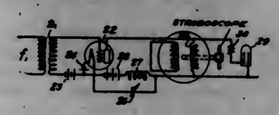
1,918,976. PIEZO-ELECTRIC CRYSTALS. WARREN A. MARRISON, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York, Filed June 6, 1930. Serial No. 459,579. 3 Claims. (Cl. 88—14.)



1. The method of determining the directions of the electric and crystallographic axes of a crystal, which comprises etching a surface of a crystal whose axes are all

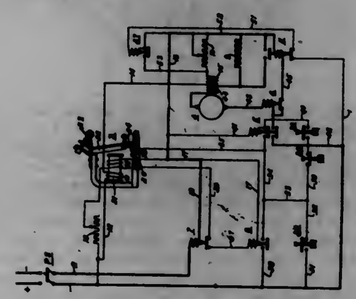
known perpendicular to its optic axis, noting the relative intensity of light reflected from said surface as said crystal is rotated about its optic axis, etching a surface of the crystal whose axes are to be determined that is perpendicular to its optic axis and noting from the same relative position the intensity of the light reflected from the surface of the unknown crystal as it is rotated and comparing the positions of maximum light reflection from the two crystals.

1,918,977. SYNCHRONOUS MOTOR. WARREN A. MARRISON, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 6, 1930. Serial No. 459,580. 7 Claims. (Cl. 172—245.)



8. In combination, a space discharge device, an output circuit therefor, a synchronous motor and a condenser connected in the output circuit of said device, and a direct current meter connected in shunt to said condenser.

1,918,978. FIELD FAILURE PROTECTIVE RELAY. PHELAN MCSHANE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 20, 1930. Serial No. 489,868. 8 Claims. (Cl. 175—294.)



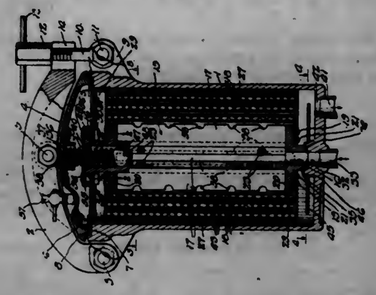
1. A protective system for motors, in combination, a motor having a shunt field winding and a variable rheostat therefor, a source of electrical energy for the motor, a field-failure protective relay including a magnetizing coil connected in series-circuit relation to the shunt field winding and field rheostat, a neutralizing coil and a variable resistor therefor connected in parallel-circuit relation to the field winding, and a line contactor controlled by the field-failure protective relay.

1,918,979. LOCK. EDWIN W. NORTH, Rockford, Ill., assignor to National Lock Co., Rockford, Ill., a Corporation of Delaware. Filed Dec. 15, 1930. Serial No. 502,266. 8 Claims. (Cl. 70—29.)



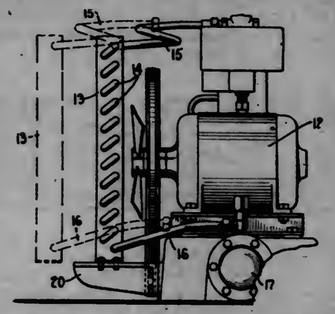
1. A latch comprising a casing, a keeper plate having a pair of tongues projecting from one end thereof, said tongues being rockably secured to one wall of said casing, means for normally urging said keeper plate into latched position, and a plunger for moving said keeper plate into unlatched position, said plunger being slotted to receive a key.

1,918,980. PRESSURE FILTER. WILLIAM W. NUGENT, Chicago, Ill. Filed Apr. 3, 1930. Serial No. 441,220. 17 Claims. (Cl. 210—164.)



1. A filter comprising a spool shaped member having radial extensions thereon, openings through said extensions, filter bags communicating with said openings, and clamping plates for holding the edges of said filter bags in place over said extensions, each of said clamping plates being mounted on said member to engage opposed edges of adjacent filter bags.

1,918,981. REFRIGERATING UNIT. FRANK D. PELTIER, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a Corporation of Delaware. Filed July 3, 1931. Serial No. 548,497. 2 Claims. (Cl. 62—115.)



1. The combination of a base, a compressor on said base, means for driving said compressor, brackets mounted on said base and provided with openings for receiving fastening elements, a water cooled condenser having feet spaced corresponding to the spacing of the openings in said supporting brackets, means to control the flow of water for cooling the condenser, and an auxiliary bracket carried by one of said first mentioned brackets at one side of the same said bracket adapted to support said means.

1,918,982. OPHTHALMIC MOUNTING. LAWRENCE POSTON, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Aug. 25, 1930. Serial No. 477,675. 10 Claims. (Cl. 88—52.)

1. A temple for an ophthalmic mounting comprising a butt portion having a hinge connection and surface projections adjacent one end thereof, a non-metallic member on the butt portion held in engagement therewith by the projections, a flexible cable member and a connecting

member having a solid portion at one end secured to the cable member and having a recessed portion at its opposite end positioned within the non-metallic member and



over the end of the butt portion and having projections thereon adapted to interlock with the non-metallic member to hold the parts in assembled position.

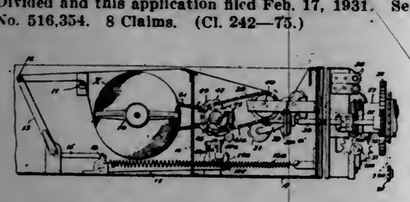
1,918,983. VITAMIN CONCENTRATE AND PROCESS OF PREPARATION. ROBERT K. PRINCE, Westfield, Mass., assignor, by mesne assignments, to Vi-Foods Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 1, 1928. Serial No. 303,613. 4 Claims. (Cl. 99—5.)

1. A vitamin concentrate in tablet form, consisting of a pulverized and compressed blend of the following raw vegetables containing vitamins A, B, C, D and E in substantially the following proportions:

	Per cent
Spinach	10 to 20
Green cabbage	5 to 15
White cabbage	25 to 40
Lettuce	3 to 7
Carrot	20 to 40

and dehydrated to less than 10% of their original moisture content.

1,918,984. MECHANISM FOR UNWINDING AND DELIVERING CONTINUOUS STRIPS. CHARLES G. RICHARDSON, Springfield, Vt., assignor to Parks & Woolson Machine Company, Springfield, Vt., a Corporation of Vermont. Original application filed Mar. 15, 1929, Serial No. 347,293, Patent No. 1,810,294, of June 16, 1931. Divided and this application filed Feb. 17, 1931. Serial No. 516,354. 8 Claims. (Cl. 242—75.)



1. A strip feeding mechanism embracing in combination, a rotary feed roll for delivering the strip at a predetermined uniform speed, a revoluble strip-carrying reel for supplying the strip to said delivery roll, two separate constant speed drivers rotating at different speeds and having alternately driving connection with said reel for revolving said reel to unwind the strip alternately at lower and at faster speeds than the travel of the strip at the delivery roll, and an equalizing stripper arranged to engage the strip and strip it from the reel intermediate of the reel and the delivery roll and acting to take up the slack and maintain the strip under substantially equal tension.

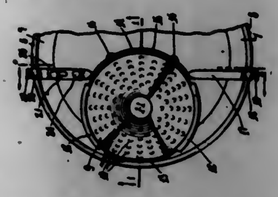
1,918,985. FLUID CONTROLLED MECHANISM. JOHN RONSON, Clareville, Caterham Valley, England, assignor to The Waterbury Tool Company, Waterbury, Conn., a Corporation of Connecticut. Original application filed Apr. 28, 1923, Serial No. 635,319, and in Canada June 12, 1924. Divided and this application filed Apr. 10, 1930. Serial No. 443,032. 4 Claims. (Cl. 121—41.)

1. A controlling device comprising a control member, a control piston, chambers on opposite sides of said piston, means for passing fluid under pressure into one of said chambers and for exhausting fluid from the other chamber, means for passing fluid under pressure into said other chamber and for exhausting from said one of said chambers, a plunger capable of independent manual operation for manually controlling the operation of said control piston, a second piston loosely mounted on said plunger, resilient means effective upon said second piston and exerting a predetermined pressure thereon to maintain



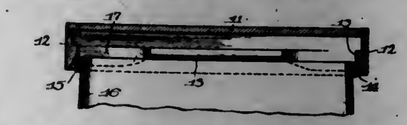
said second piston in and return it to its normal position, and a pressure fluid connection leading to a point behind said second piston, the latter being actuated to automatically operate said plunger in opposition to said resilient means when the pressure in said pressure fluid connection exceeds the predetermined pressure of said resilient means.

1,918,986. MOP WRINGER. SOLOMON SCHULMAN, New York, N. Y. Filed Nov. 23, 1929. Serial No. 409,199. 3 Claims. (Cl. 15—263.)



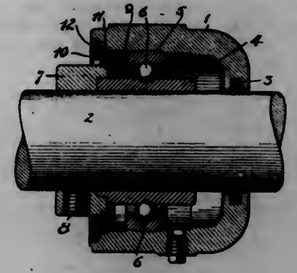
1. A mop wringer, adapted for use with a pail, comprising a drain cup located within said pail and provided with a swelled portion formed of deformable metal so as to fit the inner surface of said pail when pressed tightly against the same, and a supporting bar secured to said drain cup and provided with end portions for engaging the rim of the pail, each end portion carrying a member movable relatively to it for clamping it securely upon any portion of said rim independently of the other end portion, in order to enable each of said end portions to hold firmly upon said rim when said drain cup is forced into position.

1,918,987. BOX OR CRATE STRUCTURE. WALTER G. SEABOLD, Sr., Alton, Ill. Filed May 22, 1930. Serial No. 454,650. 2 Claims. (Cl. 217—56.)



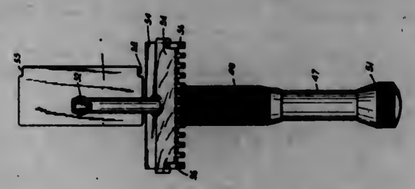
1. A self-locking structure in a box-like article and cover therefor comprising a box-like article having two opposite panels forming sides which flex slightly inwardly, a rib on each of said panels at the edge near the box opening, a cap-cover for said box having peripheral flanges forming a rigid frame as a short skirt portion so formed as to provide a handle and adapted to fit over the open end of said box, an inward projection on two opposite flanges in a position corresponding to the vicinity of the middle of the yielding panels of the box, said projections being bevelled to act on a rib to flex a panel, and being formed and positioned to engage the rib positively and to house the rib snugly in a space between the projection and the top of the cover.

1,918,988. DUST SEAL. RAYMOND R. SEARLES and HARRY R. REYNOLDS, New Britain, Conn., assignors to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed May 20, 1927. Serial No. 192,835. 5 Claims. (Cl. 308—187.)



1. In a device of the character described, a bearing housing, having an outwardly flared open recess at one end, a shaft passing through said housing, a bearing in said housing for supporting said shaft, a locking ring for holding part of said bearing to said shaft, and a flared seal ring carried by and rotatable with said locking ring, said sealing ring substantially fitting said flared recess in said housing, said locking ring and flared sealing ring being removable as a unit to unlock said bearing and shaft and open the end of said housing.

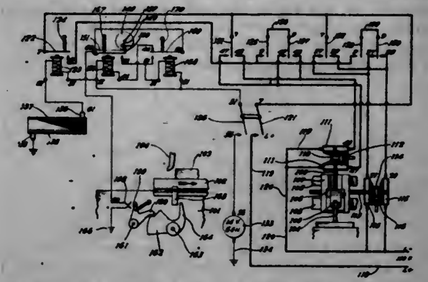
1,918,989. RAZOR. HYMAN R. SEGAL, New York, N. Y., assignor to Segal Founders Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 31, 1930. Serial No. 505,772. 5 Claims. (Cl. 30—12.)



2. A safety razor for the single edged type including in combination, a stem, a guard carried by said stem and secured to the latter at an angle to the perpendicular, comb teeth disposed adjacent the shaving edge of said guard, blade positioning lugs carried by said guard at each end of said comb tooth edge, a rod slidable within said stem, a clamping plate pivotally carried by said rod and a single edged razor blade for cooperation with said guard and clamping plate, said blade being provided with a central disposed recess in the unsharpened edge thereof for cooperation with said rod and a plurality of positioning recesses at each end of the cutting edge thereof for cooperation with said positioning lugs on said guard.

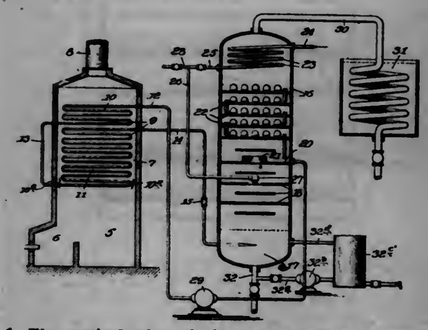
1,918,990. ELECTRICAL FEED FOR PLANERS. JOHN C. SHAW and ROBERT D. SHAW, Brooklyn, N. Y., assignors to Pratt & Whitney Company, Hartford, Conn., a Corporation of New Jersey. Filed June 23, 1931. Serial No. 546,228. 4 Claims. (Cl. 90—49.)

1. An electrical feed for planers comprising in combination, a pair of magnetic clutches for toward or from feed of the tool, a pair of magnetic clutches for right or left transverse feed, a single electric circuit adapted for operating said magnetic clutches, a relay for closing said circuit, means controlled by movement by the reciprocating table of the planer for operating said relay to close said clutch operating circuit for a predetermined length of time, a manually operable switch for closing said circuit in selecting toward or from feed and a second switch



adapted to be closed in conjunction with said first named switch for placing in said circuit the individual clutch selected for either toward feed or from feed.

1,918,991. ART OF PRODUCING LOW BOILING POINT HYDROCARBON OILS FROM HIGH BOILING POINT HYDROCARBON OILS. HAROLD R. SNOW and FREDERICK W. SULLIVAN, Jr., Hammond, Ind., assignors to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Feb. 10, 1930. Serial No. 427,216. 17 Claims. (Cl. 196—61.)

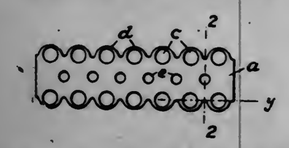


1. The method of producing a low boiling motor fuel product having anti-knock characteristics which comprises rapidly heating a higher boiling substantially completely vaporizable hydrocarbon oil from a temperature below a substantial cracking temperature to vaporize it and bring the vapors to a cracking temperature between about 850 and about 975° F., holding the oil vapors at a temperature between 850 and about 975° F. while maintaining thereon a pressure from about 100 lbs. to about 400 lbs. for a period of time sufficient to secure a minimum proportion per pass of cracked product of the desired characteristics ranging from about 2.5% at 100 lbs. to about 13% at 400 lbs. of the total material treated, said rapid heating of the oil being accomplished at such a rate that at least 85% of the said total conversion per pass is effected at the said temperatures between about 850 and 975° F., thereby securing a gasoline motor fuel product having an anti-knock equivalent of at least 1.5 cc. of tetraethyl lead per gallon of Mid-Continent gasoline.

1,918,992. METAL BOX STAYING STRIP. WILLIAM D. STANGER, Seaside Park, N. J., assignor to National Metal Edge Box Company, Philadelphia, Pa., a Copartnership composed of Louis Wolf, Albert Wolf, Howard Wolf, and Elias Wolf. Filed Sept. 30, 1930. Serial No. 485,899. 1 Claim. (Cl. 229—49.)

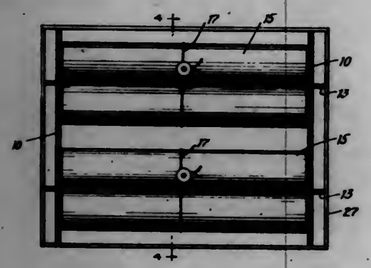
A metallic strip for staying boxes having near its longitudinal edges substantially straight rows of holes

and prongs extending from the peripheries of the holes, the holes of one row being respectively opposite the holes of the other row, the edges being scalloped approximately concentric to the holes, the indentations formed by the scallops extending inward to a longitudinal line which is approximately not less distant than the centers of the holes from lines tangential to the crests of the scal-



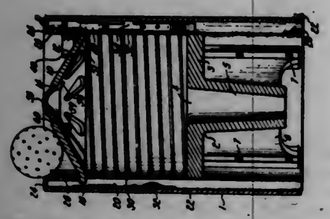
lops, whereby the strip may be transversely severed between adjacent pairs of opposing holes, bent along its longitudinal center line against adjacent box walls and the extremity of the severed strip bent into engagement with the box material without mutilating the end corners of the severed strip or impairing the securing function of the adjacent prongs, and prolonging the life of the shearing blade.

1,918,993. CARRIER FOR EGG CARTONS. EDWIN B. STRANGE, Gordonsville, Va. Filed July 15, 1931. Serial No. 550,872. 2 Claims. (Cl. 206—65.)



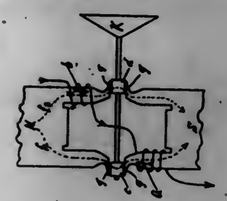
1. In combination, a pair of end members having two sets of alined slots extending inwardly from opposite edges and of different depth, two sets of strips extending between said end members with their ends extending through said slots and being interlocked with said end members, double ovate egg cartons interposed between said strips with the edges thereof lying in the longitudinal recesses of the cartons, a third set of strips extending between said end members with their ends projecting through the slots of greater depth and double ovate egg cartons interposed between the strips arranged in the greater depth slots with the edges of said strips received in the longitudinal recesses of the cartons.

1,918,994. GOLF CUP. JOHN C. STUTZ, Kansas City, Mo. Filed Jan. 22, 1931. Serial No. 510,466. 4 Claims. (Cl. 273—34.)



1. A golf cup including a shell having an outstruck rib forming a vertical groove, a movable bottom member having a tongue operating in said groove for guiding said auxiliary member in vertical movement, said rib having a portion indented to form a boss engageable by the tongue for latching the bottom member.

1,918,995. LOUD SPEAKER. FRANSISCUS JOHANNES TEN PAS, Alkmaar, Netherlands. Filed Apr. 22, 1930, Serial No. 446,264, and in Germany Feb. 26, 1930. 4 Claims. (Cl. 175—339.)



1. In a loud speaker of the inductor dynamic type, associated elements comprising of magnet pole shoes and armature bars, at least one of said associated elements having enlarged end face surfaces for the purpose of causing the strength of the magnetic field in the armature bars to vary substantially in direct proportion to the horizontal displacement of the armature bars from normal.

1,918,996. PROCESS OF PREPARING MOLDING SUBSTANCES AND MOLDED ARTICLES FROM SYNTHETIC RESINS AND FILLERS. MAX WEGER, Erkner-Berlin, Germany, assignor to Bakelite Gesellschaft mit beschrankter Haftung, Berlin, Germany. Filed Sept. 4, 1930, Serial No. 479,800, and in Germany Sept. 18, 1929. 4 Claims. (Cl. 260—4.)

1. Process of preparing resinous compositions substantially not penetrable by short-wave rays which comprises reacting the phenolic ingredient with an aldehyde, said phenolic ingredient including a phenolic compound of a metal of the group consisting of lead, uranium, thorium and thallium.

1,918,997. PURIFICATION OF ARYLAMINES. HENRY J. WEILAND, South Milwaukee, Wis., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, a Corporation of Delaware. Filed Dec. 1, 1930. Serial No. 499,410. 11 Claims. (Cl. 202—47.)

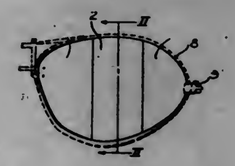
1. The process of purifying a volatile aryl amino body having a high solubility in water at elevated temperatures, which comprises passing a condensable vapor through the molten aryl amino body at a temperature above 150° C. but below temperatures at which substantial decomposition of the aryl-amino body occurs and condensing the distilled vapors.

1,918,998. LENS STRAP. JOEL C. WELLS, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Aug. 8, 1929. Serial No. 384,252. 4 Claims. (Cl. 88—47.)



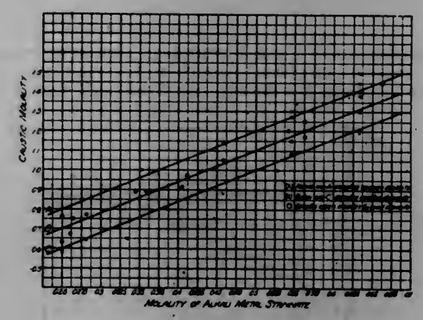
1. A clamping device for clamping a lens having an opening therethrough, comprising a pair of spaced clamping arms having aligned openings therethrough alignable with the opening in the lens, a securing member passing through the opening in the arms and adapted to pass through the opening in the lens, separate movable bearing members each having an opening through which the securing means passes and each adapted to lie between its adjacent arm and the lens, the openings in said bearing members and in said lens being larger than the cross section of the securing member, so that said bearing members can be moved to adjust themselves in compact clamping engagement to changes in angular relationship between the arm and lens.

1,918,999. OPHTHALMIC LENS. JOEL C. WELLS, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Sept. 16, 1929. Serial No. 393,036. 6 Claims. (Cl. 88—54:)



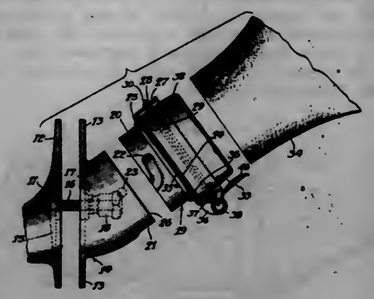
1. On ophthalmic lens having a length extending from the nasal canthus beyond the temporal canthus of the eye when in place before the eye, comprising a plurality of lens sections having lens power surfaces and having substantially vertical abutting edges and each section an optical center, one of said optical centers lying between the geometrical center of the lens and the nasal edge thereof, another adjacent the temporal edge and another between the other two and means for holding said lens sections in said alignment.

1,919,000. PROCESS FOR THE ELECTRODEPOSITION OF TIN. CHRISTIAN JOHN WERNLUND, Tottenville, N. Y., and FLOYD F. OPLINGER, Perth Amboy, N. J., assignors, by mesne assignments, to E. I. du Pont de Nemours and Company, a Corporation of Delaware. Filed Feb. 6, 1929. Serial No. 337,824. 22 Claims. (Cl. 204—17.)



1. Process for diminishing the ratio of caustic alkali to alkali metal stannate concentration in an aqueous tin plating solution containing these substances, comprising adding to said solution an acid and an oxidizing agent of the group consisting of hydrogen peroxide, peroxides, permanganates, persulphates, and perborates.

1,919,001. SUCTION CLEANER. HARRY B. WHITE, Canton, Ohio, assignor to The Hoover Company, a Corporation of Ohio. Filed Apr. 18, 1929. Serial No. 356,031. 9 Claims. (Cl. 285—168.)

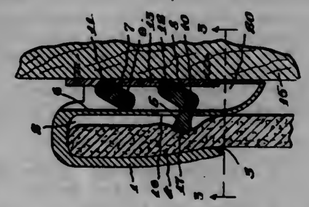


1. Securing means for detachably connecting a bag to a suction cleaner, comprising a tubular body having a neck portion adapted to enter the mouth of the bag, and a flange radially spaced from said neck portion, an expansible clamping member supported on said flange so as to surround the neck portion, and a lever mounted on the exterior of said flange for actuating said clamping means.

1,919,002. PURIFICATION OF CELLULOSE ESTERS. WILLIAM WHITEHEAD, Cumberland, Md., assignor to Celanese Corporation of America, a Corporation of Delaware. Filed Oct. 2, 1929. Serial No. 396,937. 6 Claims. (Cl. 260—102.)

1. Method of increasing the clarity of organic esters of cellulose, comprising extracting the acetone soluble organic ester of cellulose with a chlorinated hydrocarbon that is a non-solvent for the main bulk of the organic ester of cellulose.

1,919,003. CLAMP. RUDOLPH WIEZEL, Liverpool, N. Y. Filed Dec. 16, 1931. Serial No. 581,350. 5 Claims. (Cl. 24—248.)

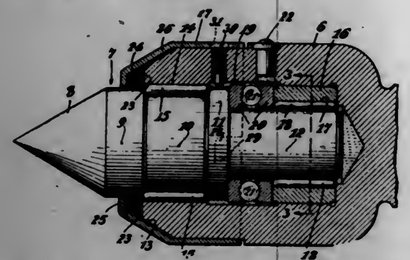


1. A clamp comprising a body in the general form of a hook forming a passage for receiving the article to be clamped, means for movably supporting the body whereby it is movable in a direction parallel to the bill of the hook, a clamping member carried by the supporting means and extending through the body into the passage between the bill and the shank of the hook formation, and at an angle to the bill of the hook, the clamping member being operable into and out of said passage upon movement of the hook in opposite directions.

1,919,004. LATHE CENTER AND BEARING MEANS THEREFOR. GEORGE R. BOTT, Stamford, Conn., assignor to Norma-Hoffmann Bearings Corporation, Stamford, Conn., a Corporation of New York. Filed July 30, 1932. Serial No. 626,634. 12 Claims. (Cl. 82—33.)

1. In a lathe center, a housing, a rotatable center having a shank extending within said housing, front and

rear axially spaced apart, cageless radial type bearings interposed between said shank and the housing wall, each of said bearings comprising a plurality of small diameter rollers of low weight maintained in circumferentially separated relation to each other by fluid medium within the housing, the rollers of said spaced bearings being arranged in parallel relation to the shank axis, and a thrust bearing having a stationary part thereof directly engaged with the outer race member of one of said radial type bearings.

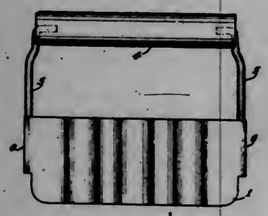


10. In a cageless roller bearing, the combination of relatively rotatable cylindrical bearing races, and a plurality of needle rollers interposed therebetween of small diameter relative to the diameter of the inner race, and providing a multiplicity of axial lines of contact with the race surfaces extending substantially throughout the width of the bearing, the race surfaces being spaced apart a distance exceeding the diameter of the needle rollers, said rollers being of low weight and maintained in circumferentially separated relation to each other by a lubricant medium having such viscosity and surface tension as to prevent contact of the rollers with each other under the influence of centrifugal force and having a tendency to normally cause said rollers to revolve as an entirety in non-rotating sliding relation to the race surfaces, and a number of said rollers individually rotating about their respective axes when subjected to abnormal load pressure radial to the bearing.

1,919,005. PROCESS FOR THE OXIDATION OF AMMONIA AND CATALYST THEREFOR. ULRIC B. BRAY, Los Angeles, Calif., assignor to Atmospheric Nitrogen Corporation, New York, N. Y., a Corporation of New York. Filed June 11, 1930. Serial No. 460,544. 10 Claims. (Cl. 23—162.)

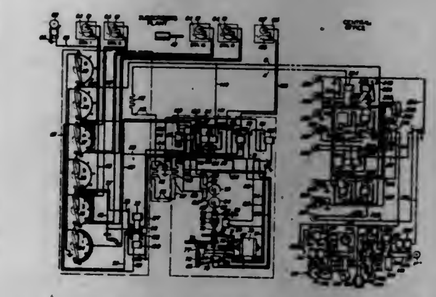
5. A catalyst for the oxidation of ammonia comprising cobalt oxide substantially free from impurities.

1,919,006. DOUGH BLENDER. CARRIE M. BRICKER, East Cleveland, Ohio. Filed Aug. 10, 1931. Serial No. 556,161. 1 Claim. (Cl. 259—144.)



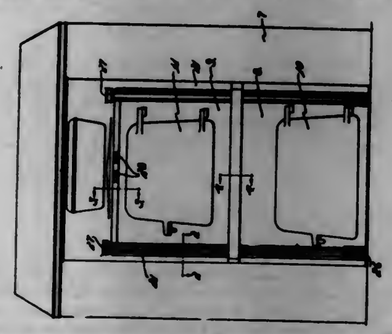
A dough blender comprising a substantially rigid body portion of comparatively thin sheet material, said body portion being reversely and uniformly curved so as to have a wave form throughout from one side to the other side thereof, the grooves provided thereby in said body portion being of substantial width and of approximately one-half inch in depth throughout and free of sharp corners and having their side walls inclined at approximately forty-five degrees to the perpendicular, and a bail handle attached to the two ends of said body portion, said device being adapted for blending the dough ingredients by a cutting operation of the same in a direction lengthwise of the said grooves and by a scooping operation in a direction transversely thereof, and said grooves being adapted for ready cleaning by passage of the fingers of the hand therealong.

1,919,007. SIGNALING SYSTEM. LELAND H. CHASE, Little Neck, N. Y., assignor to Holmes Electric Protective Company, New York, N. Y., a Corporation of New York. Filed Aug. 21, 1931. Serial No. 558,436. 4 Claims. (Cl. 161—20.)



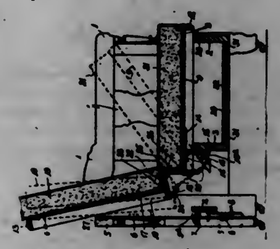
1. In combination, a central station, patrolled premises, a plurality of substations at the patrolled premises, a signal device at each substation, a selector at the patrolled premises having contacts to which said signal devices are connected, a circuit extending from the central station to the patrolled premises and including a relay at the patrolled premises to control the operation of said selector to cause it to select and operate the signal device of the first substation, a code circuit extending from the patrolled premises to the central station, time controlled means at the central station to close said first circuit, a circuit closed by the operation of said relay and including an electromagnetic timing switch at the patrolled premises for measuring time intervals, said electromagnetic switch closing said code circuit at the expiration of a certain time interval, means operated by the patrolman at each substation within a certain time interval for causing said selector to select the next substation, operate the signal device thereat and reset said automatic time spacing means to prevent the closure of said code circuit.

1,919,008. HOT AIR FURNACE CONSTRUCTION. JULIAN J. CHEVIRON, Detroit, Mich. Filed Mar. 31, 1932. Serial No. 602,293. 6 Claims. (Cl. 126—119.)



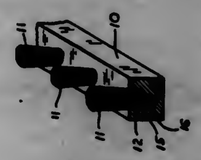
1. A hot air furnace of the class described comprising: a casing; a shell positioned within said casing; a separate front mounted on said casing, said front engaging and being secured to said shell; a plurality of spaced sealing means for sealing the escape of gases from within said shell into the interior of said casing at the place of engagement of said shell with said plate; and a conduit between said sealing means for the reception of gases escaping past one of said sealing means.

1,919,009. CONVERTIBLE SETTEE. ISAAC COHEN, Johannesburg, Transvaal, Union of South Africa. Filed Nov. 5, 1931, Serial No. 573,149, and in the Union of South Africa Sept. 22, 1931. 2 Claims. (Cl. 5—40.)



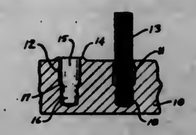
1. A convertible settee, including, in combination, a main frame, a movable back, means for slidably supporting the back in the inclined position, a seat, means attached to the frame for enclosing a space below the seat, for which the seat serves as a hinged cover, the seat being hingedly connected to the main frame at a point some distance in front of the back edge and hingedly and detachably connected along the rear edge to the lower edge of the back, so that the seat when lifted to give access to the enclosed space is automatically retained in the raised and open position by the weight of the movable back, the means for hingedly and detachably connecting the rear edge of the seat to the lower edge of the back comprising leaf hinges, and sockets slidably receiving the respective leaves of the hinges whereby the back frame is slidably connected to the seat frame, said hinges having one leaf longer than the other and the longer leaf made narrower for a portion of its length, so that said longer leaves act as stops and distancing means in such a way that the movable back of the settee is supported by the seat frame through said hinges when the seat is lowered and the back relatively inclined and so that said longer leaves slidably engage in their sockets automatically to allow the seat and back to assume their correct relative positions, as set forth.

1,919,010. BRUSH. JAMES F. CONNOR, Cleveland, Ohio. Filed July 27, 1931. Serial No. 553,252. 6 Claims. (Cl. 15—190.)



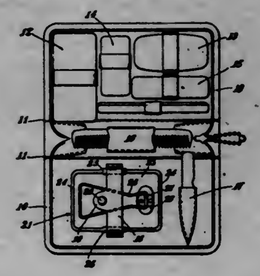
1. A brush having a relatively large and a relatively small socket, said sockets being preformed in communication with each other, a tuft occupying one of said sockets and a flexible retaining member embracing the tuft and having a portion thereof occupying the other of said sockets, said last named portion being in close fitting engagement with the walls of the associated socket, whereby it is locked only by frictional contact therewith.

1,919,011. BRUSH. JAMES F. CONNOR, Cleveland, Ohio. Filed Nov. 9, 1931. Serial No. 573,753. 2 Claims. (Cl. 15—190.)



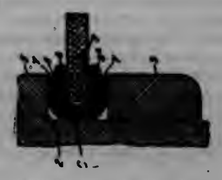
1. A brush back having a socket opening therein, a tuft folded within the socket, a staple embracing the tuft an intermediate portion of the wall of the socket being swaged over the staple, and the wall of the socket adjacent the outer end thereof being swaged against the tuft in sealing relation therewith.

1,919,012. TOILET ARTICLE KIT. SAUL DISKIN, New York, N. Y. Filed Feb. 24, 1933. Serial No. 658,365. 4 Claims. (Cl. 132—79.)



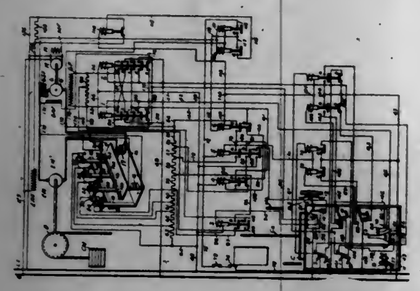
1. In a toilet article kit, a semi-flexible, flat, elongated rectangular body capable of folding transversely to present opposed faces, a plurality of unlike, looped sheaths secured to said faces, a loop fixed at its ends to one of said faces, a tab on said loop, a mirror having a frame slidably engageable in said loop, and co-operative means, respectively on said tab and mirror, to retain the latter within the loop.

1,919,013. WINDOW GLASS CUSHIONING DEVICE. CHARLES C. DUNN, Cincinnati, Ohio, assignor to The Randall Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 11, 1932. Serial No. 604,583. 8 Claims. (Cl. 296—44.5.)



1. In combination with a window glass having its edge slidable in a groove formed in the window stile of individual metallic elements embracing only the opposite side edges of the glass and frictionally secured thereto to slide therewith, and a cushioning member having a brush-like surface, secured to and arranged exteriorly of each of said members and maintained in frictional engagement with the walls of said groove.

1,910,014. ELEVATOR CONTROL SYSTEM. WILLIAM F. EAMES, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 30, 1927. Serial No. 236,772. 19 Claims. (Cl. 172—152.)



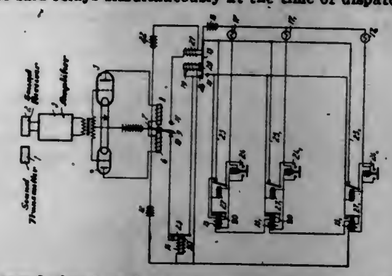
2. In a motor-control system, a motor; a generator; electrical connections between said motor and said generator; means for variably controlling the voltage of said generator to control the speed of said motor; and additional means for controlling the voltage of said generator, said additional means comprising a contact element, means including an element responsive to the current in said connections adapted to control said contact element, and means to limit the control of said contact element by said last-mentioned means to a predetermined range of voltages of said generator.

13. In a control system for elevators, an elevator operable past a plurality of adjacent floors, a motor therefor, and means for controlling the power supplied to said motor for accelerating and decelerating said motor, including a resistor for modifying the voltage supplied to said motor, a first switch, actuable to effect a low operating speed of said motor, for controlling a portion of said resistor, a second switch, actuable to effect a higher operating speed of said motor, for controlling another portion of said resistor, and means for controlling a third portion of said resistor operable during acceleration of said motor to place said third portion under the control of said first switch, and operable during deceleration to place the third portion of said resistor under the control of said second switch.

18. In an elevator control system, an elevator operable in a hatchway between a plurality of stopping points, a motor therefor, means defining a point in advance of each of said stopping points at which deceleration from a predetermined speed must be initiated in order that the elevator may be stopped at that point, and means for either accelerating said elevator to said predetermined speed from zero speed at the next adjacent stopping point or decelerating said elevator to said predetermined speed from a higher speed from a more remote point in said hatchway, including means effective during acceleration for applying voltage to said motor in excess of that required to attain a continuous running speed equal to said predetermined speed and effective during deceleration for applying voltage to said motor of a value less than that required to attain a continuous running speed equal to said predetermined speed, whereby said elevator will be operating at substantially said predetermined speed either on acceleration or deceleration when passing said defined point.

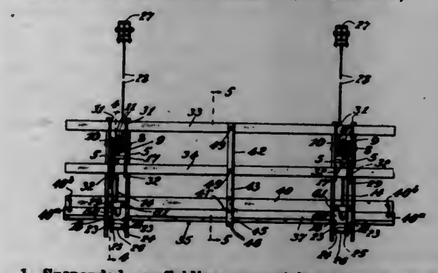
1,919,015. METHOD OF DETERMINING DISTANCES. KARL EISENZAPF, Berlin-Wilmersdorf, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany, a Corporation of Germany. Filed Jan. 17, 1930, Serial No. 421,443, and in Germany Jan. 17, 1929. 3 Claims. (Cl. 177—386.)

1. In an arrangement for measuring distance by means of sound waves, a plurality of time lag relays, and means for timing said relays with respect to one another to respond with their armatures successively to a common simultaneously exerted control action, a sound transmitter, a sound receiver, means for exerting the control action on all of said relays simultaneously at the time of dispatching



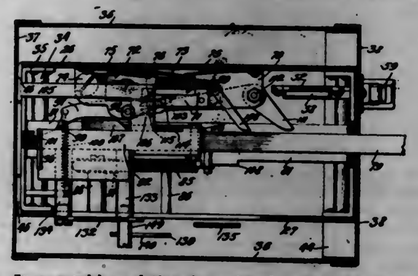
the sound signal, and means controlled by the signal arriving at the receiver after traversing the distance to be measured, for maintaining an indication of the relays which have responded with their armatures during the travelling time of the signal over said distance.

1,919,016. SCAFFOLDING. HOBART S. GEER, Corona, N. Y., assignor to American Safety Device Co., New York, N. Y., a Corporation of New York. Filed Mar. 21, 1931. Serial No. 524,240. 2 Claims. (Cl. 304—18.)



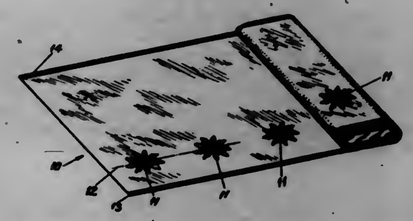
1. Suspended scaffolding comprising spaced vertical frames, a horizontal frame connected to the lower end of each vertical frame, a scaffold platform removably supported upon said horizontal frames, a longitudinally extending guard rail, said vertical frames having means removably receiving said rail, a rigid member and means for releasably connecting said member with said guard rail and the platform to prevent displacement of said platform relative to the frames, and suspending means for the scaffolding including hoisting drums rotatably mounted in said vertical frames.

1,919,017. VENDING MACHINE. HARVEY GILES, Brooklyn, N. Y., assignor to Collier Advertising Service, Inc., New York, N. Y., a Corporation of Delaware. Filed May 28, 1931. Serial No. 540,591. 4 Claims. (Cl. 194—93.)



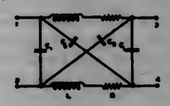
1. In a machine of the character described including a reciprocable plunger, a lever for cooperating with the plunger to prevent it from being moved beyond a certain point when no coin has been deposited in the machine, resilient means for holding a coin deposited in the machine in position to be engaged by the lever to prevent the latter from cooperating with the plunger whereby the plunger may be moved beyond said certain point, a cam lug on the plunger for disengaging the lever from the coin and a second cam lug on the plunger for disengaging the resilient holding means from the coin.

1,919,018. ORNAMENTED LINING FABRIC. LOUIS GOEBBEL, Babylon, N. Y. Filed Jan. 14, 1933. Serial No. 651,742. 2 Claims. (Cl. 41—17.)



2. A lining material from which sections of lining are to be cut, comprising a long strip of woven textile fabric having two selvage edges and having woven therein a plurality of identical ornamental figures positioned in a line parallel to and between said edges, said figures being spaced apart sufficiently to permit the largest size complete section of lining to be cut therefrom in such manner that each section includes one of said ornamental figures located centrally with respect to the cut edges of said section.

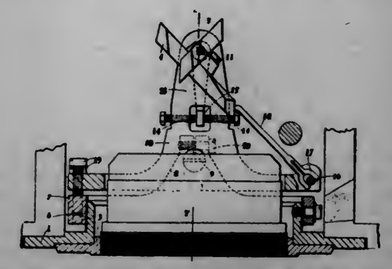
1,919,019. ARTIFICIAL CABLE AND LOADING COIL THEREFOR. RALPH M. C. GREENIDGE, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 31, 1932. Serial No. 602,204. 10 Claims. (Cl. 178—46.)



1. A loading coil unit comprising a coil associated with a core of magnetic material, said coil and core having their constants so pre-computed that the increment resistance loss of the coil is proportional to current throughout a given current range in the same relationship as that existing between said loss and current in a continuously loaded submarine cable, and means associated with said coil so designed as to render the increment resistance loss of said coil a function of frequency throughout the speech frequency range in accordance with the relationship existing between said loss and frequency in a continuously loaded submarine cable.

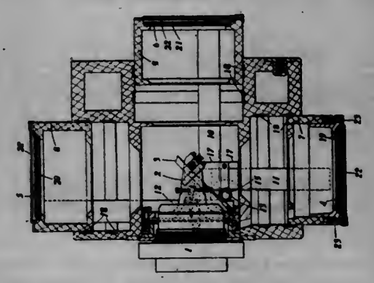
1,919,020. OPTICAL SYSTEMS FOR CAMERAS FOR PHOTOGRAPHY OR CINEMATOGRAPHY PARTICULARLY IN COLOR. ALBERT GEORGE HILLMAN, London, England, assignor to Colourgravure Limited, London, England. Filed May 29, 1931. Serial No. 540,851. 10 Claims. (Cl. 88—1.)

1. In connection with a camera for taking multiple images by simultaneous exposure, a unit comprising the combination of a support; an objective, and an optical light dividing system consisting of a pair of reflectors, mounted thereon; means on said support for rotating said reflectors relatively to one another about a common axis to adjust and set the reflectors for a desired angle of reflection; and means on said support for adjusting the



light dividing system with respect to the objective and to the optical axis; said unit being insertable into the camera body so that the optical combination may be accurately pre-adjusted away from the camera and inserted in the camera in its pre-adjusted condition.

1,919,021. CAMERA. ALBERT GEORGE HILLMAN, London, England, assignor to Colourgravure Limited, London, England. Filed May 29, 1931. Serial No. 540,852. 8 Claims. (Cl. 95—2.)

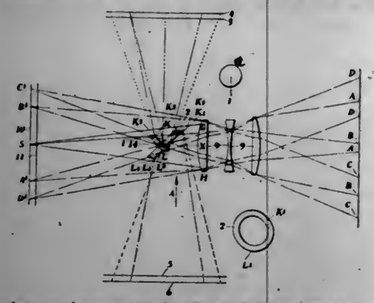


1. A camera for taking multiple images by simultaneous exposure from the same point of view comprising a casing; an objective; a light dividing system disposed behind said objective for dividing a beam of light transmitted thereby into sections to form the multiple images; holders for the image-receiving elements firmly slide-guided in said casing; racks on opposite sides of said holders; a directly driven master spindle and pinions thereon; each of said pinions being common to a rack of each holder, whereby said holders may be moved simultaneously to focus the multiple images by rotation of said master spindle.

1,919,022. OPTICAL SYSTEM FOR CAMERAS FOR PHOTOGRAPHY OR CINEMATOGRAPHY PARTICULARLY IN COLOR. ALBERT GEORGE HILLMAN, London, England, assignor to Colourgravure Limited, London, England, assignor to Colourgravure Limited, London, England. Filed May 29, 1931, Serial No. 541,001, and in Great Britain July 4, 1930. 14 Claims. (Cl. 88—1.)

1. An optical system for casting multiple images by simultaneous exposure from the same point of view comprising an objective and a light dividing system positioned behind the objective; said light dividing system consisting of a pair of plane mirrors lying in intersecting planes; one of said mirrors being of ring-like form and substantially encircling the other mirror; said mirrors dividing the main beam transmitted by the lens

into four sections; two of such sections being reflected by said mirrors to form two images and two sections passing unobstructed by the system on the optical axis and



combining to form a single direct further image; one of said unobstructed sections being formed by the marginal rays from the lens.

1,919,023. PURIFICATION OF BENZOIC ACID AND ITS DERIVATIVES. ALPHONS O. JAEGER, Crafton, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Apr. 4, 1929. Serial No. 352,611. 7 Claims. (Cl. 260—108.)

1. A method of removing benzoic acids from a mixture of benzoic and phthalic acids in which at least part of the acids are present in the solid phase, which comprises washing the mixture with a solvent essentially comprising a hydrocarbon of the benzene series.

1,919,024. POCKET FLASH LIGHT. LEONARD ABBOTTS, Bridgeport, Conn., assignor to The Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 6, 1931. Serial No. 555,433. 5 Claims. (Cl. 240—10.68.)



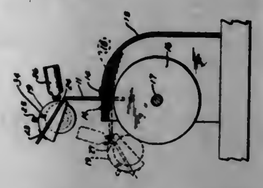
1. A flash light comprising a casing, a bulb at one end of the casing and grounded thereon, an apertured insulator in the other end of the casing, a battery within the casing and at one end contacting with the bulb and at its other end seating against the insulator, spaced stop means within the casing and between which the insulator is movable longitudinally of the casing to accommodate batteries of different lengths, a push button extending through an extremity of the casing, spring means engaging the push button and the insulator and normally maintaining the push button in inoperative position, and a yielding contact means carried by the push button and adapted on the push button being pressed to pass through the aperture in the insulator and engage the battery to close a circuit to the bulb.

1,919,025. METHOD AND MATERIAL FOR APPLYING WATER SOLUBLE COLORS TO FATTY FOODSTUFFS. CARL H. JONES, Oak Park, and WILBUR H. KRETLOW, Chicago, Ill., assignors to Wm. J. Stange Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1931. Serial No. 581,768. 11 Claims. (Cl. 99—11.)

1. A composition for use in making and coloring fatty foodstuffs, said composition including lanolin, a water soluble food color and water.

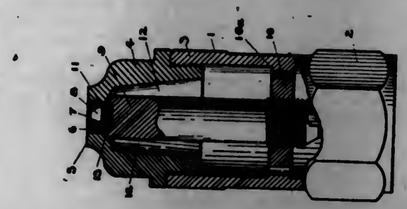
5. The method of making a composition wherewith to make fatty foodstuffs which consists in thoroughly mixing an aqueous solution of a water soluble food color with lanolin devoid of its normal water content.

1,919,026. LUBRICANT APPLICATOR FOR POLISHING WHEELS AND THE LIKE. JOHN H. KEATING, Lakewood, and JAMES W. COATES, Cleveland, Ohio. Filed Oct. 16, 1931. Serial No. 569,132. 4 Claims. (Cl. 51—263.)



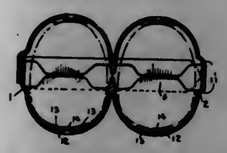
1. A lubricant applicator for polishing wheels comprising a shell pivotally mounted over the wheel, a lubricant bottle carried by the shell and arranged to be tilted therewith to either upright or inverted position, and an applying wheel mounted in the shell and movable therewith to contact with the polishing wheel, said applying wheel being in position to receive lubricant from the bottle when in contact with the polishing wheel.

1,919,027. ATOMIZER. AARON KLOTZMAN, Baltimore, Md., assignor to May Oil Burner Corporation, a Corporation of Maryland. Filed Jan. 23, 1932. Serial No. 588,461. 10 Claims. (Cl. 299—120.)



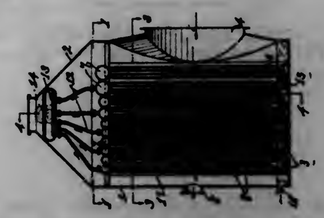
1. In an oil burner atomizer, means for effecting permanency in quality and quantity of delivery of oil from the atomizer when oil is delivered to the atomizer at high pressure, said means comprising a head with a spray-ejection orifice, a whirling chamber and a distributor having at its distributing end a portion defining part of the said whirling chamber, said portion having secured therein a setting of a substance of the group comprising sapphire, ruby, corundum and diamond, and said atomizer having a whirl-producing duct for admitting oil into the whirling chamber.

1,919,028. PACKING FOR FRAGILE ARTICLES. MORRIS KOPPELMAN, Brooklyn, N. Y., assignor, by mesne assignments, to Packing Products Corporation, a Corporation of Delaware. Filed Feb. 26, 1927. Serial No. 171,120. 9 Claims. (Cl. 229—29.)



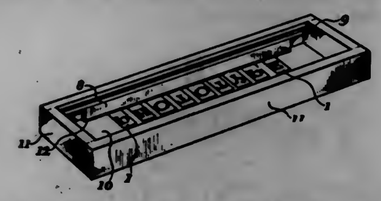
1. In a packing for fragile articles, a series of cup-like receiving pockets, connecting portions uniting them at their upper parts, said pockets being contiguous to one another, and upstanding, separating and article protecting members extending upwardly above the receiving portions of the pockets and their connecting portions, one of said members being interposed between and merging with each pocket and the next pocket.

1,919,029. MERCURY VAPOR CONDENSER AND STEAM GENERATOR. CHARLES E. LUCKE, New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed July 9, 1928. Serial No. 291,439. 18 Claims. (Cl. 122—32.)



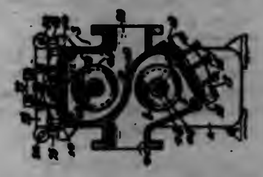
1. A device of the character described comprising, a shell, headers of substantially circular cross section within the shell, return bend tubes connecting headers to provide for the passage of water through said tubes, and a passage through said shell for heating vapors.

1,919,030. MECHANISM FOR PHOTOGRAPHIC PRINTING. FRANK MOORE MILLS, Darien, Conn. Filed May 20, 1931. Serial No. 538,749. 9 Claims. (Cl. 95—4.5.)



1. In combination, removable film units bearing characters, a printing frame, an assembling bar atached thereto and forming part of such frame, said bar having a resilient slot to receive and hold said units.

1,919,031. DUPLEX STRAINER. KARL MUHLEISEN, Philadelphia, Pa., assignor to Schutte and Koerting Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1931. Serial No. 526,656. 4 Claims. (Cl. 210—168.)



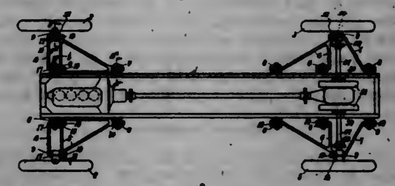
1. A duplex strainer for straining liquids comprising a couple of casings, means located between and connected to the said casings for holding the same in fixed relation to each other, the said means being provided with liquid inlet and outlet chambers one of which is located in adjoining relation to the upper ends of the said casings and the other of which is located in adjoining relation to the lower ends of said casings, the upper end of the former and the lower end of the latter being open, removable cover plates for closing the open ends of the said chambers, the lower end of the lower chamber being located in a plane extending upwardly and at an angle to a vertical line to facilitate access to the said chamber upon removal of the cover plate therefrom, and valves for controlling the flow of liquid through the said chambers.

1,919,032. INFLATABLE ELASTIC GARMENT AND THE LIKE. JOSEPH NEULANDER, New York, N. Y. Filed June 17, 1932. Serial No. 617,798. 2 Claims. (Cl. 2—63.)



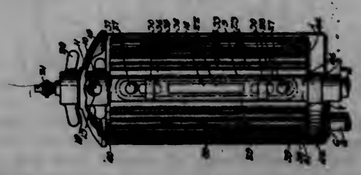
1. A garment member of substantially airproof, flexible, sheet material, having a doubled outer wall folded upon itself, closed all around except one side thereof, where it is open; a similar doubled lining within said outer wall, having an open portion in exact registering relation to the open portion in said outer wall; means to secure the marginal edges of said outer wall and said inner lining along and around said open portion, so as to provide a completely closed space between said outer wall and said inner lining; a transverse tube formed in the wall of said marginal edges communicating with said space and with the outside, respectively, and a removable plug for said tube.

1,919,033. VEHICLE SUSPENSION. WARREN NOBLE, Detroit, Mich. Filed Mar. 10, 1927. Serial No. 174,292. 30 Claims. (Cl. 280—124.)



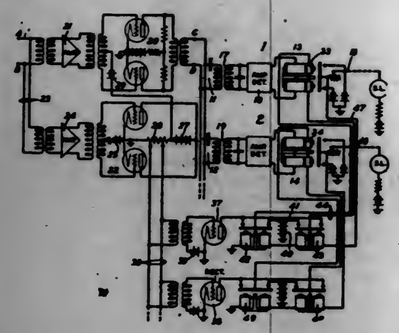
3. In a wheel suspension, a frame member and a wheel, a torsional member mounted on said frame, a second torsional member mounted on said wheel and a rigid link connecting said torsional members to support said frame member.

1,919,034. PRESSURE FILTER. WILLIAM W. NUGENT, Chicago, Ill. Filed Apr. 7, 1931. Serial No. 528,292. 14 Claims. (Cl. 210—164.)



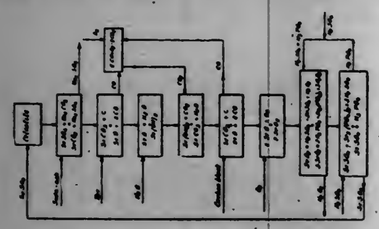
1. In a filter, the combination with a hollow conduit, of an opening in one portion of said conduit communicating with the interior and exterior thereof, a filter bag having the mouth arranged in communication with said opening, said conduit having a clamping surface thereon adjacent said mouth and extending outwardly away from said mouth on all sides thereof and releasable clamping means for holding the edges of said mouth of said bag in firm engagement with said clamping surface comprising a rigid loop member surrounding said mouth, and means for moving said member in a direction toward said clamping surface and for holding a layer of the material of said bag between said loop member and said conduit to prevent the escape of liquid therefrom.

1,919,035. CARRIER TELEGRAPH INTERFERENCE SUPPRESSOR. WALTER A. PHELPS, Madison, and ALLAN M. KOEBNER, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 4, 1931. Serial No. 542,032. 11 Claims. (Cl. 178—69.)



1. In a carrier telegraph system, a multiplex receiving line, a plurality of receiving channels coupled thereto each including frequency selective means selective of a different respective range of frequencies, an element in said receiving line in advance of all of said receiving channels, comprising a space discharge device, having anode, grid and cathode elements, and means determining the action of said element as a net gain element or a net loss element comprising an auxiliary circuit coupled to said line and capable of transmitting current only in response to impressed voltage in excess of normal, said auxiliary circuit biasing the grid negative by an amount dependent upon the input amplitude in excess of normal.

1,919,036. MANUFACTURE OF HYDROGEN PEROXIDE. JAMES B. PIERCE, Jr. Charleston, W. Va., assignor to Barium Reduction Corporation, a Corporation of Delaware. Filed May 16, 1928. Serial No. 278,354. 6 Claims. (Cl. 23—207.)



1. The method of manufacturing hydrogen peroxide which comprises bringing together strontium peroxide and an appropriate mixture of sulfuric acid and phosphoric acid whereby there are formed hydrogen peroxide, strontium sulfate and strontium phosphate, separating the liquid hydrogen peroxide portion from the precipitate of strontium sulfate and strontium phosphate, and converting the strontium phosphate to phosphoric acid and strontium sulfate.

1,919,037. CEMENTITIOUS FILLING FOR FLANGED JOINTS AND THE LIKE. WIRT S. QUIGLEY, New York, N. Y., assignor to Quigley Company, Inc., a Corporation of New York. Filed Mar. 11 1931. Serial No. 521,888. 5 Claims. (Cl. 106—8.)

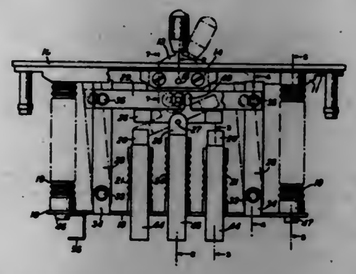
5. A sealing paste for use as a filling between the opposing surfaces of joints to be subjected to high heat comprising the suspension of finely ground vermiculite, in a condition capable of marked expansion on increase of temperature, in a sterile vehicle which will facilitate setting of the mass under such increase of temperature without substantial loss of body by vaporization.

1,919,038. UPHOLSTERY PIN. DANIEL I. REITER, New York, N. Y. Filed June 29, 1932. Serial No. 619,892. 14 Claims. (Cl. 24—152.)



1. A pin fastener of a single integral length of wire pointed at both ends thereof, comprising a substantially straight main pin portion of said length bent in one direction, a secondary pin portion of said length bent in another direction, and a plurality of coplanar concentric convolutions forming a closed head bent from the intermediate portion of said length.

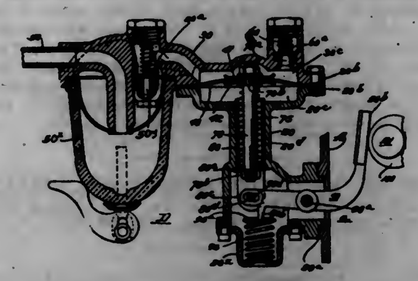
1,919,039. SWITCHING DEVICE. GEORGE A. RITCHIE, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1932. Serial No. 603,344. 6 Claims. (Cl. 200—15.)



1. In a switching mechanism, a stationary contact, a movable contact member, an operating lever for effecting the engagement of said movable contact member with said stationary contact, and a pantograph mechanism interposed between said movable contact member and said operating lever for transmitting the movement of said operating lever to said movable contact member, said pantograph mechanism comprising a pair of pivotally movable end members and a plurality of insulating bars pivotally secured thereto, said operating lever being associated with one of said bars at its mid-point and said movable contact member being associated with another of said bars at its mid-point.

1,919,040. FUEL PUMPING DEVICE FOR INTERNAL COMBUSTION ENGINES. EDWARD A. ROCKWELL, Long Island City, N. Y. Filed July 2, 1928. Serial No. 289,694. 2 Claims. (Cl. 103—38.)

1. In a pumping device for supplying fuel to an internal combustion engine, a pumping element and operating connections thereto comprising a lever arranged for positive actuation in one direction only at one end, and connections from the other end to the pumping member, said connections comprising a spring by which the connections are normally extended to a predetermined limit, said extension being in the direction from the point of engagement of the lever corresponding to the feeding movement of the pumping member, and a spring reacting on the lever in the opposite direction from its positive actuation and in the direction from said feeding movement of the pumping member, the last mentioned spring being constructed for reacting on the lever and through the lever on the first mentioned spring and through said



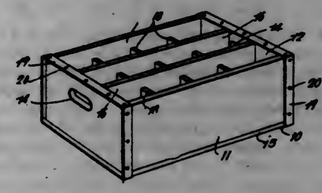
first mentioned spring on the pumping member, the second mentioned spring being conditioned for reacting more forcibly than the first mentioned spring.

1,919,041. REED MECHANISM. WILLIAM C. ROE, Elyria, Ohio, assignor to Telkor, Inc., Elyria, Ohio, a Corporation of Ohio. Original application filed June 7, 1930, Serial No. 459,674, now Patent No. 1,854,863, dated Apr. 19, 1932. Divided and this application filed Sept. 8, 1931. Serial No. 561,614. 16 Claims. (Cl. 200—90.)



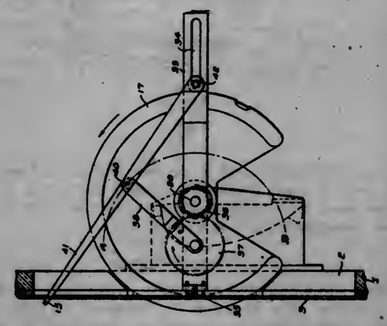
1. A vibratory reed construction comprising a pair of resilient reeds, the free end of one reed overlapping the free end of the other reed, and means adapted to periodically communicate vibratory impulses to the first reed causing it to alternately engage and disengage said second reed, whereby the amplitude of the first reed is caused to be greater in one direction than in the other, and electric contacts controlled by movement of the said second reed.

1,919,042. PARTITION CRATE OR BOX CONSTRUCTION. SOLOMON ROSENBERG, Brooklyn, N. Y. Filed Nov. 24, 1931. Serial No. 577,079. 2 Claims. (Cl. 217—19.)



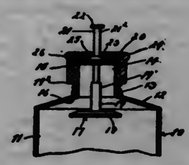
1. In combination with a box body open at its top and having end walls and side walls nailed thereto, two sets of rigid cross partition members within said body, one set of partition members being wider than the other set and having spaced alined slots therein, the ends of the slots terminating short of the opposite side edges of said partition members, while the other narrower set of partition members extend through said alined slots at right angles to said first set of members and have their ends in abutting engagement with the side walls of the box body, the end walls of said box body being provided with vertical grooves for the inside thereof which open onto the top edges for slidably receiving the ends of one set of partition members, and means secured to the top edges of the end walls and overlying the ends of the partitions seated in said grooves for securing the partition members against removal.

1,919,043. INDICATING MECHANISM. ALBERT ROTH, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 12, 1927. Serial No. 190,716. 1 Claim. (Cl. 116—124.1.)



In combination, a panel having a plurality of openings extending therethrough, a shaft lying parallel to one face of said panel and in spaced relationship thereto, an adjusting disc-like control element affixed to said shaft at right angles to said panel and partially extending through one of said openings, an index-device mounted on the other face of said panel adjacent the projecting portion of said control element, an indicating device, and means interconnecting said disc-like control element and said indicating device whereby the latter is constrained to move in a rectilinear path substantially parallel and adjacent to said index-device upon movement of said control element.

1,919,044. PASTE TUBE WITH MEASURING DEVICE AND CAPTIVE CAP. HARRY A. SCHELL, Philadelphia, Pa. Filed Apr. 12, 1932. Serial No. 604,677. 4 Claims. (Cl. 221—60.)



1. A measuring device and captive cap for paste tubes, comprising a stem slidable longitudinally through the outlet of a collapsible paste tube, a secondary closure on the inner end of said stem to control the discharge of paste from the tube, a primary closure fixed to the outer end of the stem to be carried along by the discharging paste for moving the secondary closure to a closed position, a post extending outwardly from the primary closure, a cap for threaded connection with the neck of said tube and slidably mounted on the post, means at the outer end of the post to prevent displacement of the cap from said post, and means to move said cap outward along the post upon being released from the neck of the tube.

1,919,045. INVISIBLE SUSPENDER ATTACHMENT. CARL F. SCHULZ, Brooklyn, N. Y. Filed Apr. 2, 1932. Serial No. 602,650. 17 Claims. (Cl. 241—25.)

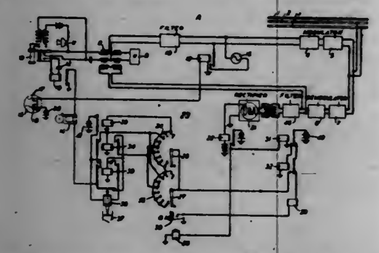
1. In a device of the character specified comprising a wire frame of rectangular formation having at its upper portion laterally extending arms bent into upstanding

loops, the opposed sides of the loops having inward bends, an endless band passing through such loops and adapted for secure attachment to the waist band of a pair of trousers, the frame being adapted to extend below the



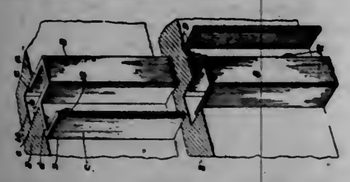
point of attachment, and a member extending from the lower end of such frame to a point above the points of waist band attachment and there provided with means for the engagement of a suspender.

1,919,046. SELECTIVE CALLING CIRCUITS. EDWARD O. SCRIVEN, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 5, 1931. Serial No. 520,259. 13 Claims. (Cl. 179—2.5.)



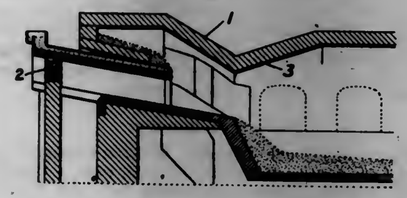
3. In a power-line carrier-telephone system, a power-line carrying high tension low frequency current, a plurality of signal stations connected thereto, means for communicating between stations by carrier current modulated by voice currents, means for effecting selective calling between stations by carrier current modulated with current having a frequency within the voice frequency range, and means for eliminating the current within the voice frequency range employed during selective calling from the voice currents during communication between stations and for eliminating all voice frequency current except the voice frequency current employed for selective calling from the call receiving circuit at a called station.

1,919,047. WINDOW AND WEATHER STRIP FOR WINDOWS. FRANK W. STEVENS, Newton, and BERNARD W. STEVENS, Needham, Mass. Filed Sept. 14, 1931. Serial No. 562,685. 1 Claim. (Cl. 20—69.)



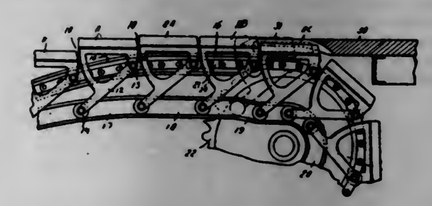
A weather strip for windows comprising an extruded metal bar of channel shape in cross-section adapted to enter the parting strip groove in a window jamb and to serve as a parting strip for the window, the edge of said bar being bevelled to facilitate its entrance into said groove, and an angular strip integral with said bar and comprising a web extending laterally from one flange of said bar at a point intermediate in the width of said bar and a flange at the outer edge of said web extending at right angles to the web and parallel to the flanges of said bar, the free edge of the flange of said angular strip being thickened and rounded and being directed oppositely to the flanges of said bar and lying approximately flush with the outer edge of said channel bar.

1,919,048. PROTECTIVE LINING FOR A FURNACE. LEOPOLD TSCHIRKY, Rosemont, Pa. Filed May 5, 1932. Serial No. 609,423. 5 Claims. (Cl. 266—43.)



1. A process of so conditioning and heating up of a furnace having a refractory lining as safely to effect an abridgement of the period thereof, which process consists in providing said lining with a temporarily insulating and protective coating of less refractory material than said lining, and applying heat at full rate to said furnace thereby causing said protective coating to disappear.

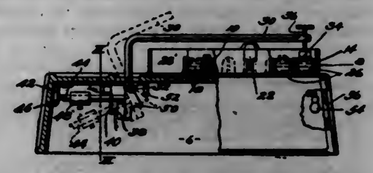
1,919,049. MOVING STAIRWAY LANDING. RALPH PAUL VALTIER, New York, N. Y., assignor to Harold W. Shonnard, Montclair, N. J. Filed June 28, 1930. Serial No. 464,475. 8 Claims. (Cl. 198—16.)



1. In a moving stairway mechanism, a slotted landing, a series of interconnected movable steps having curved risers and slotted treads arranged to mesh horizontally in succession with the slotted landing, and at substantially the same level therewith, upper and lower supporting wheels for each step, guides for said wheels, the guides for the lower wheels having two substantially horizontal portions in different planes and an interconnecting portion, said guide portions being relatively disposed to impart a vertical component of movement to the steps while in mesh with the landing, whereby a substantially uniform distance between the curved risers and the ends of the horizontal treads of the adjacent steps is maintained during said vertical movement.

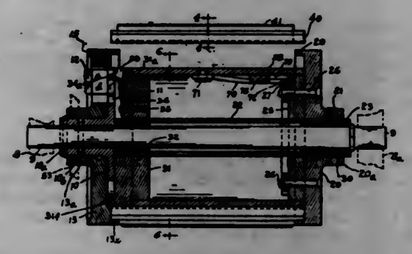
1,919,050. ELECTRIC COOKER. HARRY C. WARNER, Kansas City, Mo., assignor of one-fourth to William F. Hall, Kansas City, Mo. Filed May 25, 1931. Serial No. 539,827. 9 Claims. (Cl. 219—19.)

9. In an electric cooker, spaced apart electrodes; means for supplying current to the electrodes; a conducting liquid submerging said electrodes; a switch forming a part of said current supply means; and a switch operating



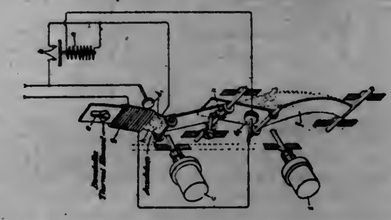
arm adapted to open said switch when material being cooked in the liquid between said electrodes becomes a predetermined size.

1,919,051. PRINTING MACHINE. GEORGE C. BAUER, Santa Monica, Calif. Filed Nov. 27, 1931. Serial No. 577,489. 4 Claims. (Cl. 101—377.)



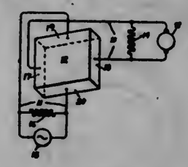
1. In a printing cylinder of the kind described, in combination, a shaft, a pair of heads turnably mounted upon said shaft in spaced relation to each other, a type cylinder which separately considered consists of an open ended sleeve having its end portions mounted upon said heads with a working fit, said cylinder being circumferentially adjustable with relation to both of said heads, a set of type bars for said cylinder means a portion of which is mounted on the inner surface of said sleeve to releasably maintain said type cylinder in the adjusted position with relation to one of said heads, such head being provided with a peripheral flange adapted to hold said type bars in their operative position and said cylinder having a type retaining bar extending therealong; and a third circumferentially adjustable head mounted upon said shaft at the other end of the type cylinder from the last recited head, said third head being provided with means which in one of its circumferential positions locks the type bars in place and in another position releases said type bars.

1,919,052. CIRCUIT CONTROLLING DEVICE. KURT BECKER, Berlin-Treptow, Germany, assignor to General Electric Company, a Corporation of New York. Filed Mar. 5, 1931, Serial No. 520,851, and in Germany Mar. 12, 1930. 13 Claims. (Cl. 175—294.)



1. A combined time delay and instantaneous circuit controlling device including a switch, means for closing the switch, a movable thermal element having electrical heating means connected to be energized upon closure of the switch, mechanical connections between said thermal element and said switch for biasing the switch to the closed position when the thermal element becomes heated and for controlling the opening of the switch with a time delay dependent upon the cooling of the thermal element, and means for opening the switch instantaneously and maintaining the same open independently of the time delay control of the thermal element.

1,919,053. ELECTRIC CONTROL CIRCUIT. HOWARD G. BRINTON, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Dec. 10, 1931. Serial No. 580,118. 14 Claims. (Cl. 172—281.)

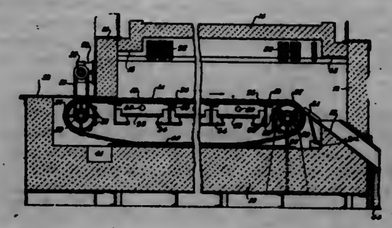


3. A system for causing the voltage of one circuit to vary in accordance with variations of the voltage of a second electric circuit comprising a resistance unit whose resistance varies instantaneously as a function of the current passing therethrough, connections between said first circuit and spaced points of said unit, and connections between said second circuit and other spaced points of said unit.

8. In combination, a plurality of electric circuits and means for causing an electric condition of a first of said circuits to vary in accordance with variations of an electric condition of a second of said circuits comprising a body whose resistance varies as a function of the current passing therethrough, connections between said first circuit and spaced points on said body and connections between said second circuit and other spaced points on said body.

12. In combination, a two wire electric circuit, an n-phase polyphase circuit, means for causing an electric condition of one of said circuit to vary in accordance with variations of an electric condition of the other circuit comprising a body whose resistance varies as a function of the current flowing therethrough, said body being provided with a pair of opposed contact faces and at least n faces, symmetrically disposed and approximately normal to said opposed surfaces, connections between said two-wire circuit and said pair of opposed surfaces, and connections between said polyphase circuit and said other surfaces.

1,919,054. FURNACE. FRANK T. COPE and RAY C. OYSTER, Salem, Ohio, assignors to The Electric Furnace Company, Salem, Ohio, a Corporation of Ohio. Filed Mar. 16, 1929, Serial No. 347,706. Renewed Dec. 2, 1932. 16 Claims. (Cl. 13—20.)



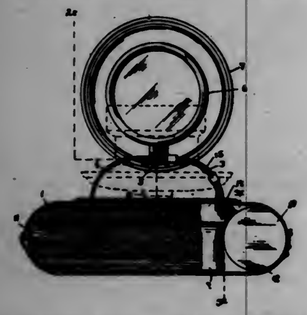
1. In a furnace, a conveyer belt for carrying articles to be heated, a floating stripper plate adjacent to the dis-

charge end of the belt for automatically removing articles from the belt, a quenching tank, and a closed chute communicating with the stripper plate and terminating beneath the level of the quenching bath.

1,919,055. THERAPEUTIC AGENT. EUGENE H. EISING, New York, N. Y. Filed Sept. 13, 1932, Serial No. 632,950, and in Canada Feb. 12, 1932. 12 Claims. (Cl. 167—58.)

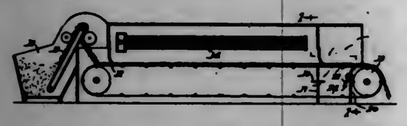
1. A therapeutic agent comprising an unrefined petroleum product exposed to ultraviolet irradiation less than would be sufficient to bring about the defluorescence of fluorescent petroleum oils.

1,919,056. PORTABLE ELECTRIC LANTERN. WILLIAM C. EMBURY, Warsaw, N. Y. Filed Mar. 17, 1931. Serial No. 523,363. 10 Claims. (Cl. 240—10.67.)



1. In a portable battery operated lamp the combination of a casing having a pocket therein, a pair of curved arms pivoted within said pocket to have its outer ends swing in and out of said pocket, a light head swiveled on said arms to swing between and over the arch formed by said pair of arms, said arms being adapted to swing and nest into said pocket and said light head being adapted to swing between said arms and nest into said pocket.

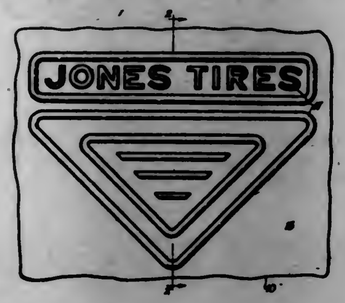
1,919,057. DRIER. FRANK L. FURBUSH, Graniteville, Mass., assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass., a Corporation of Massachusetts. Filed Mar. 14, 1932. Serial No. 598,776. 2 Claims. (Cl. 34—12.)



1. In a drier, the combination with a casing, an apron therein for passing the stock through the drier, means for heating the drier, fans for drawing in the air from outside, a partition in the casing having a damper located at a distance from the doffer end for admitting the air to the fans, means for admitting air to the drier through the stock at the doffer end, and a second partition nearer the doffer end than the first one having a damper for regulating the pressure of air on the top of the stock.

1,919,058. METHOD OF MAKING EMBOSSED COATED FABRIC. EDGAR E. GEORGE, Canton, Ohio, assignor to The Buttonless Tire Cover Company, Canton, Ohio, a Corporation of Ohio. Original application filed Nov. 23, 1929, Serial No. 409,306. Divided and this application filed Nov. 23, 1931. Serial No. 576,755. 8 Claims. (Cl. 41—24.)

3. The method of embossing a design in a predetermined area of an uncoated textile article subjected to repeated tensile strains and flexings in normal use, said method consisting in applying an impervious thermoplastic, self-hardening coating to only that area of the textile to be embossed, then impressing said design by means of hot dies through said coated area from both surfaces of



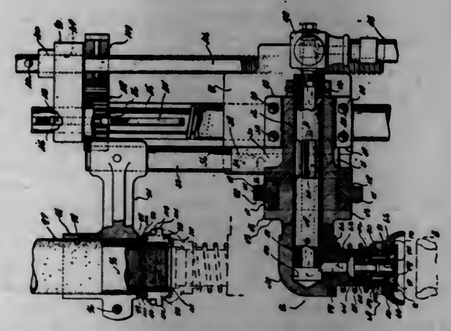
said textile, whereby the material of said coating will impregnate the textile, and thence releasing said heat and pressure and allowing to cool, whereby said embossed design will be impervious, will hold its shape through repeated tensile strains, and will flex without cracking.

1,919,059. METHOD OF MAKING EMBOSSED FABRIC. EDGAR E. GEORGE, Canton, Ohio, assignor to The Buttonless Tire Cover Company, Canton, Ohio, a Corporation of Ohio. Filed Jan. 15, 1932. Serial No. 586,941. 4 Claims. (Cl. 412—24.)



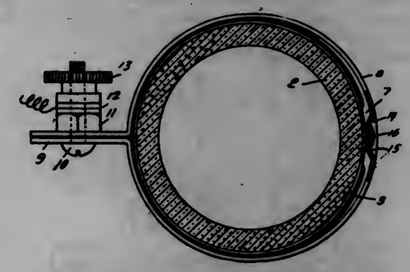
4. The method of making embossed fabric products, which includes forming compressed and embossed portions in a fabric piece, applying a coating of thermo-plastic material on the compressed and embossed portions, and applying pressure and heat to the coated compressed and embossed portions.

1,919,060. BOTTLE CAPPING MACHINE. HERMAN A. HARDER, Milwaukee, Wis. Filed Sept. 2, 1930. Serial No. 479,274. 11 Claims. (Cl. 226—92.)



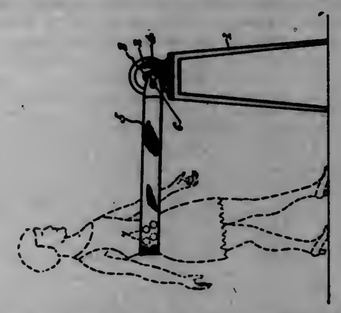
1. In a bottle capping machine, a magazine for holding a supply of caps including a substantially vertical tubular member in which the caps are stacked to drop by gravity, means engageable with the lowermost cap to hold the stack in the tubular member, means for individually transferring caps from said magazine to bottles to be capped, means for moving said last named means alternately into operative relation with the magazine and the bottles to be capped, a bell carried by the transferring means to engage over the bottle top and center the bottle during the capping thereof, and means on said cap engaging means engageable by the edge of the bell to move said cap engaging means and release the lowermost cap.

1,919,061. CONTACT DEVICE FOR RESISTORS. AMBROSE H. HARDWICK, East Orange, N. J., assignor to Hardwick, Hindle, Inc., Newark, N. J., a Corporation of New Jersey. Filed July 24, 1930. Serial No. 470,422. 2 Claims. (Cl. 201—63.)



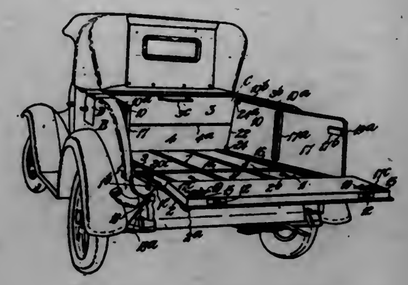
1. A contact device for a resistor consisting of a band surrounding the resistor and means for clamping the band in place on the resistor, said band being provided with a depression engaging the wire of the resistor at a desired point, said depression being provided with an aperture whereby solder placed in the depression may flow into contact with the wire at the said point of engagement.

1,919,062. POWER OPERATED MASSAGE BELT. CHARLES C. HAYNES, Omaha, Nebr. Filed Nov. 19, 1929. Serial No. 408,827. 1 Claim. (Cl. 128—63.)



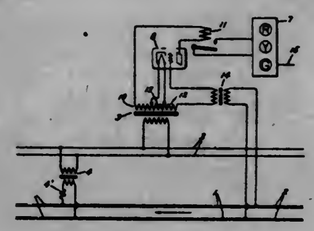
A power operated massage belt, comprising a motor having an armature shaft with cranks on its extending ends and detent buttons on the outer ends of the cranks, a flexible belt having slots in its ends for receiving said buttons therethrough for holding the ends of the belt detachably on said cranks, the intermediate portion of said belt adapted to loop about the body of the user, numerous relatively small humps mounted on the inner face of the belt at said intermediate portion thereof and each hump having an outer flexible cover and an inner filler of resilient material, said humps being disposed in rows lengthwise of the belt with the humps in one row staggered with reference to the companion humps of an adjacent row.

1,919,063. CONVERTIBLE BODY OF VEHICLES. WARD HUBBARD, Koo-Wee-Rup, Victoria, Australia. Filed Sept. 17, 1930, Serial No. 482,435, and in Australia Nov. 11, 1929. 7 Claims. (Cl. 296—26.)



1. In a convertible vehicle body having a rear compartment comprising a stationary floor, a front wall and side walls, the combination therewith of a pair of interconnected flaps movably supported at the rear of the vehicle body, linings adjacent said side walls, extensions pivotally supported by said linings and movable forwardly and rearwardly of the vehicle said extensions when in rearward position providing vertical rearward continuations of said side walls, means for securing one of the flaps in rearwardly extended position to provide a rearward substantially horizontal continuation of the floor and means to secure the other flap in substantially vertical position in cooperative relation to the said extensions.

1,919,064. TRACK RELAY. ALBERT W. HULL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 16, 1930, Serial No. 489,157. Renewed Nov. 25, 1932. 5 Claims. (Cl. 246—40.)

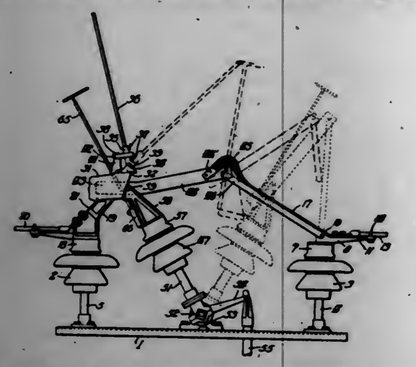


1. The combination in a railway signal system, of a track, a signal along said track, means for impressing an electromotive force between the rails of said track, an electron discharge device comprising an envelope filled with attenuated gas and having an anode, a cathode and a control electrode, a source of electromotive force connected between said anode and cathode having a value sufficient to cause ionization of said gas, and means for supplying said electromotive force between said rails to said control electrode thereby to control the state of ionization of said gas, and means responsive to current through said device to control said signal.

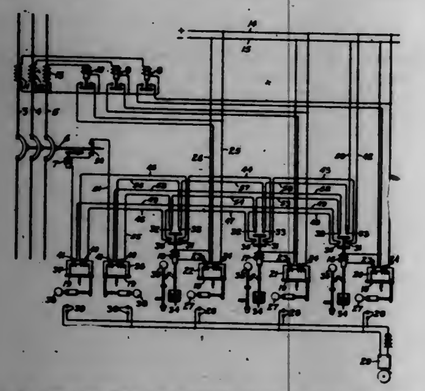
1,919,065. SWITCH. ERNEST H. JACOBS, River Forest, Ill., assignor to Electrical Engineers Equipment Co., Melrose Park, Ill., a Corporation of Illinois. Filed Sept. 16, 1929. Serial No. 392,921. 3 Claims. (Cl. 200—48.)

1. An arcing horn comprising a pipe of iron of high reactance, the inside of said pipe being free of non-magnetic

conducting material, whereby the magnetic material constitutes the sole current carrying portion of the horn, and a tip of copper at the end of the horn, said tip forming a continuation of the outer surface of the pipe, with the juncture of the tip and the pipe free of corners and abrupt changes in size.



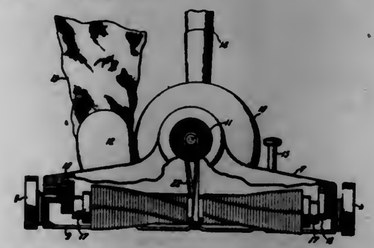
1,919,066. SUPERVISION OF PROTECTIVE APPARATUS FOR ELECTRIC SYSTEMS. PAUL KANNENGIESSER, Pankow-Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Oct. 28, 1927, Serial No. 229,510, and in Germany Dec. 2, 1926. 10 Claims. (Cl. 177—311.)



1. In combination, an electric circuit, a circuit breaker therefor, and means for controlling the opening of the circuit breaker on the occurrence of abnormal circuit conditions comprising a trip coil, a control circuit for said trip coil normally energized to an extent insufficient to cause the operation thereof, a source of current for energizing the control circuit, means for controlling the energization of said control circuit including a plurality of intermediate relays, a plurality of protective relays connected to be energized from said electric circuit and respectively associated with said intermediate relays, and means controlled by each protective relay for effecting the operation of its associated intermediate relay on the occurrence of abnormal circuit conditions causing the operation of the protective relay.

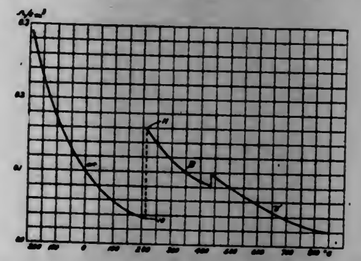
10. In combination, an electric circuit, a circuit breaker therefor, means for controlling the opening of the circuit breaker on the occurrence of abnormal circuit conditions including a trip coil, a control circuit for said trip coil normally energized to an extent insufficient to cause the operation thereof, a source of current for energizing the control circuit, means for controlling the extent of the energization of said control circuit including an intermediate relay, a circuit for said intermediate relay normally energized to an extent insufficient to cause the operation thereof, means for effecting the operation of the intermediate relay on the occurrence of abnormal circuit conditions including a protective relay connected to be energized from said electric circuit, means for indicating a failure in the circuit of said intermediate relay including an indicator relay having two energising windings connected in series with each other and the winding of the intermediate relay, and means controlled by said protective relay for decreasing the energization of one of said windings when the protective relay operates.

1,919,067. BEATER FOR VACUUM CLEANERS. HENRY T. LANG, Cleveland, Heights, and HENRY A. KROSNLEIN, Cleveland, Ohio, assignors to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio, a Corporation of New York. Filed Oct. 7, 1932. Serial No. 636,690. 5 Claims. (Cl. 15—13.)



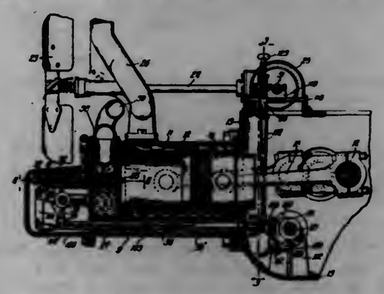
1. A beater for use in a vacuum cleaner nozzle comprising a means extending longitudinally of the nozzle, a series of disk-like counterpart non-metallic members arranged side by side and rigidly fitted over the means, each having a projecting part for engagement with the surface covering as it is rotated, means for preventing relative rotation of the members and means, and a means for rotating the members.

1,919,068. TEMPERATURE REGULATOR. FRANZ LAUSTER, Berlin-Steglitz, Germany, assignor to General Electric Company, a Corporation of New York. Filed Feb. 26, 1930, Serial No. 431,606, and in Germany Apr. 10, 1929. 4 Claims. (Cl. 219—20.)



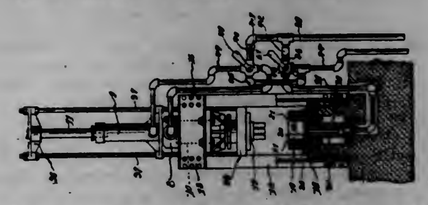
4. The combination with an electrically heated device provided with a working surface, of a heating resistor for said device having a normal rate of heat generation substantially greater than the normal heat losses of said device to thereby produce an increase in temperature of said working surface up to a predetermined working temperature, a regulating resistance made of silicon or the like on said device connected in series with said heating resistor and having normally a low resistance as compared with the resistance of said heating resistor, said regulating resistance being mounted on said device in such predetermined good thermal relation with said heating resistor and so proportioned to said resistor that when said working surface is heated by said resistor to said predetermined working temperature, said regulating resistance is heated by said resistor to a critical temperature at which its resistance increases abruptly to a relatively high value and thereby reduces the rate of heat generation of said heating resistor to a value lower than the heat losses of said device at said working temperature, whereby the temperature of said device is limited substantially to said predetermined working temperature.

1,919,069. TRACTOR. HAROLD E. MCCRAY, Waterloo, Iowa, assignor to John Deere Tractor Company, Waterloo, Iowa, a Corporation of Iowa. Filed Apr. 8, 1929. Serial No. 353,874. 9 Claims. (Cl. 123—32.)



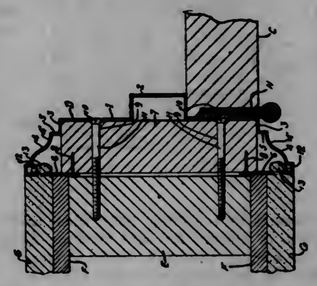
1. In an internal combustion injection engine having a crank case, a cylinder block extending substantially horizontally from said crank case, said block having two cylinders therein and having longitudinal openings extending below said cylinders from said crank case to the head ends of said cylinders, an air intake and an exhaust valve for each cylinder, a cam shaft within said crank case, intake and exhaust cams mounted on said shaft within said crank case, push rods extending through said longitudinal openings and actuated by said intake and exhaust cams and operatively connected with said valves, the combination of an injector valve for each cylinder governing the admission of fuel thereto, two injector cams disposed adjacent one another on said cam shaft within said crank case, two bell crank levers mounted within said crank case and each having one arm actuated by one of said injector cams, a member slidably mounted on the other arm of each of said levers, pull rods pivotally connected with said members and disposed adjacent one another in said longitudinal openings alongside said push rods, said push rods being operatively connected with said injector valves, and governor means responsive to engine speed and including link means disposed generally in a plane between said cylinders for sliding both of said members relatively to said bell crank levers for governing the stroke of said injector valves.

1,919,070. HYDRAULIC PRESS. HOBART J. MCKAY and PAUL J. CARLSEN, St. Paul, Minn., assignors, by mesne assignments, to The Richardson Company, Lockland, Ohio, a Corporation of Ohio. Filed Mar. 1, 1930. Serial No. 432,406. 2 Claims. (Cl. 18—19.)



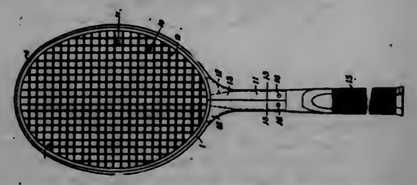
2. In a mold for a hydraulic press having a plunger, a platen and a ring secured to said platen, a substantially rectangular mold bottom normally resting on said platen within said ring, sides hingedly connected to said bottom and arranged to be confined within said ring to form a mold with an open top, said plunger being arranged to be extended into said mold to form an object, means for forcibly projecting said sides from said mold, lugs projecting from the outer surfaces of said sides and guides formed in said ring to engage said lugs and forcibly pivot certain of said sides outward when the mold is extended from the ring.

1,919,071. COMBINED METAL DOOR JAMB AND TRIM. JOHN S. MILLS, St. Louis, Mo. Filed Jan. 25, 1929. Serial No. 334,869. 3 Claims. (Cl. 189—46.)



1. An improved article of manufacture comprising a door jamb and a trim for door openings, said door jamb and trim being formed of one piece of sheet metal to provide a unitary structure, backing means permanently associated with said structure, so as to constitute a part thereof before and during the entire use of said structure, and fastening devices extended inwardly from a face of said door jamb, through said backing means, and into a support by which the combined door jamb and trim is supported.

1,919,072. TENNIS RACKET. RICHARD B. MUNDAY, Oakwood, Ohio. Filed July 2, 1931. Serial No. 548,811. 2 Claims. (Cl. 273—73.)

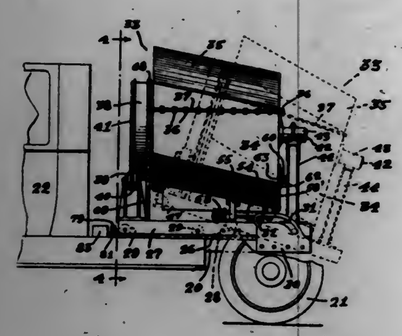


1. A tennis racket head comprising an inner channel section and an outer channel section, means for securing said sections together, said sections adapted to be bent to form an oval string-receiving portion, with the free ends of the inner section engaging each other at the throat of the frame, and inclined foot portions having curved inner ends, on the outer section, said foot portions adapted to be brought together to form a handle-receiving socket portion, with the curved inner ends of said foot portions engaging the inner channel section to close the throat portion of said frame.

1,919,073. TRANSIT CONCRETE MIXER. HUGH P. PARIS, Oakland, Calif., assignor to Paris Transit Mixer Company, Seattle, Wash., a Corporation of Washington. Filed Mar. 14, 1930. Serial No. 435,740. 3 Claims. (Cl. 33—73.)

1. In combination with an automotive vehicle chassis, a sectional concrete mixing shell revolvably mounted

thereon, one of the sections of said shell being removable for utilizing the remaining section as a dump body, said remaining section having an opening formed in the walls thereof adaptable for charging and discharging the shell during concrete mixing operations and for discharg-



ing the contents of the dump body when said section is used as such, a closure for said opening, means for detachably connecting the shell sections, means for rotating the shell during concrete mixing operations, and means for effecting discharge of the shell and dump body.

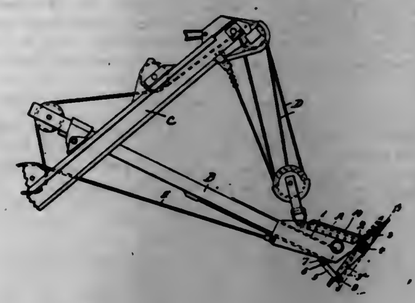
1,919,074. ELECTRICAL APPARATUS. ALEXANDER M. PONIATOFF, Philadelphia, Pa., assignor to General Electric Company, a Corporation of New York. Filed Feb. 7, 1930. Serial No. 426,677. 5 Claims. (Cl. 173—318.)



5. A self-cooling electrical conductor comprising a vertically disposed hollow conductor stud open at its upper end, a tubular member extending within and longitudinally of said stud through the open end thereof, said member being of smaller diameter than the interior of said stud and spaced from the bottom of said stud so as to form a continuous air passage between the interior of said tubular member and the annular space between the same and said stud, and an air intake for said tubular member comprising a horizontally disposed tube overhanging and extending beyond the open end of said stud, said tubular member being otherwise closed at its upper end so that exhaust of heated air upwardly through the aforesaid annular passage in said stud causes flow of cooling air through said intake tube and downwardly into the interior of said stud.

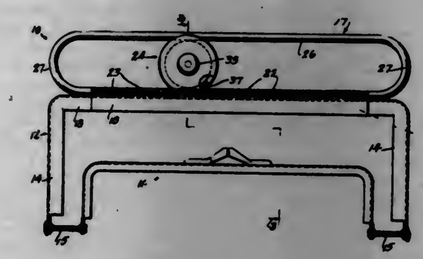
1,919,075. GRUBBING ATTACHMENT FOR EXCAVATING MACHINES. ALVIN C. RASMUSSEN, Indianapolis, Ind., assignor to The Insley Manufacturing Company, Indianapolis, Ind., a Corporation. Filed Jan. 11, 1932. Serial No. 585,997. 14 Claims. (Cl. 37—2.)

1. A device of the character described, comprising the combination with an excavating machine having the usual boom and dipper stick, of grubbing instrumentalities mounted on the dipper stick and operative by the usual operating device for the dipper stick, the said instru-



mentalities comprising a plurality of grubbing teeth, and cutting means mounted on each tooth for engaging and holding an object to be grubbed out.

1,919,076. LOCKING DEVICE FOR PORTABLE RECEPTACLES. JACOB SCHOENFELD, New York, N. Y. Filed May 22, 1933. Serial No. 672,187. 8 Claims. (Cl. 292—145.)

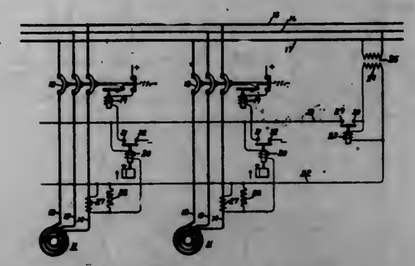


1. In a portable receptacle, a plurality of frame members movable toward and away from each other for closing and opening the receptacle, said frame members having respectively a first rail and a second rail extending therealong and being adapted to form a continuous track with each other when the receptacle is closed, a roller having a peripheral groove for engaging said rails, holding means on the frame member having the first rail for guiding the roller for travel along the rails into a plurality of positions, said roller in one position engaging both rails for holding the same in said alinement and in another position engaging only the first rail, and stop means associated with one of the rails for maintaining the roller in engagement with the first rail.

1,919,077. PROTECTIVE SYSTEM. HAROLD T. SEELEY, Yeadon, Pa., assignor to General Electric Company, a Corporation of New York. Filed Aug. 18, 1930. Serial No. 475,921. 11 Claims. (Cl. 175—294.)

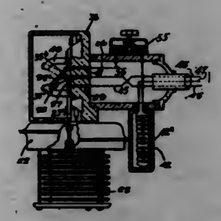
1. In an electric generating system, a plurality of three-phase generators, a three-phase circuit, means for connecting said generators to said circuit and means for selectively effecting the opening of the connecting means of a generator causing an overvoltage on the system including means connected to be energized in accordance with the voltage across two phase conductors of said

circuit, means associated with each generator and responsive to a condition of the current delivered thereby in the third phase conductor of said circuit and means con-



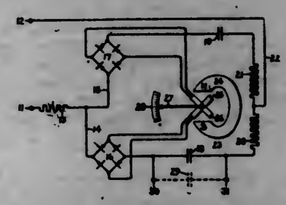
trolled by said voltage energized means and actuated by the combined effect of said current responsive means and the voltage of the circuit.

1,919,078. CONTROL MECHANISM FOR MECHANICAL REFRIGERATING APPARATUS. MAXWELL H. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Oct. 7, 1927. Serial No. 224,544. 11 Claims. (Cl. 62—4.)



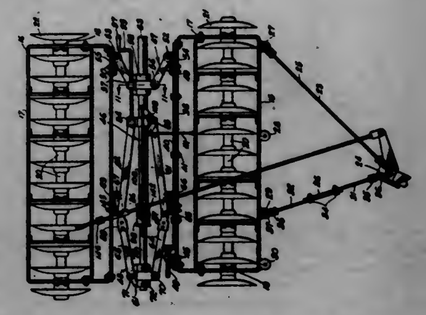
1. In a mechanically cooled refrigerator, a thermostat responsive to the temperature of the refrigerator and operating to automatically regulate the temperature within said refrigerator, and means operatively associated with the cooling mechanism for changing the temperature of the medium surrounding the thermostat.

1,919,079. ELECTRICAL INSTRUMENT. BYRON W. ST. CLAIR and JOHN F. QUINN, East Lynn, Mass., assignors to General Electric Company, a Corporation of New York. Filed Oct. 22, 1931. Serial No. 570,400. 3 Claims. (Cl. 175—183.)



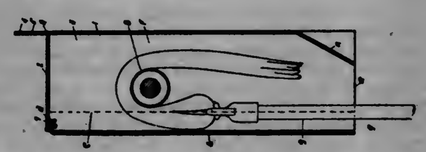
1. In combination with a source of alternating current, a capacity measuring device comprising a pair of parallel circuits supplied by said source of current, each of said circuits comprising a resistor, a condenser, and a rectifier in series, means for connecting an unknown capacity in parallel with one of said condensers, and means responsive to the ratio of the currents flowing in said parallel circuits.

1,919,080. OFFSET DISK HARROW. JAMES S. STEWART, Oxnard, Calif., assignor to Brenneis Manufacturing Company, Oxnard, Calif., a Corporation of California. Filed Jan. 22, 1931. Serial No. 510,410. 15 Claims. (Cl. 55—83.)



1. An implement of the character described, including: a leading section and a following section; means for pulling said leading section; and following draft means connecting said following section to said leading section, said following draft means comprising primary toggle links extending from one side of said leading section to the corresponding side of said following section, secondary toggle links connecting the remaining side of said leading section with the remaining side of said following section, and actuating means extending from said primary toggle links to said secondary links whereby tension exerted in said primary toggle links will move said secondary toggle links.

1,919,081. MOP CABINET. PETER WEISSWASSER, Detroit, Mich. Filed May 4, 1932. Serial No. 609,291. 2 Claims. (Cl. 34—26.)

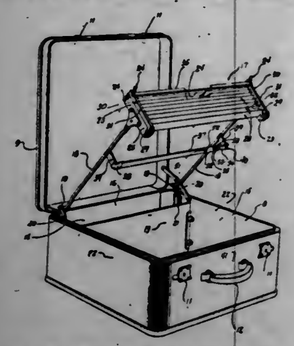


1. A mop cabinet adapted for retaining and drying a hand mop head therein, comprising a small rectangular cabinet inclosure formed with an open bottom end and having cabinet back wall at the lower end deflected within the cabinet bottom opening, both side and front walls being formed with perforations therethrough, said cabinet being provided with a hinged top wall recessed for allowing a mop handle to be passed therethrough, a spring handle support mounted on said top wall capable of engaging and supporting the mop handle and attached mop head, an electric heating unit mounted within the cabinet inclosure positioned to contact the mop head for drying same.

1,919,082. LUGGAGE. GEORGE HENRY WHEARY, Racine, Wis., assignor to Wheary Trunk Company, Racine, Wis., a Corporation of Wisconsin. Filed Dec. 8, 1930. Serial No. 500,770. 23 Claims. (Cl. 190—41.)

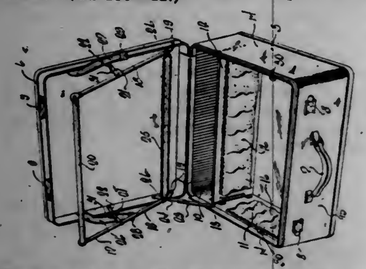
1. A garment carrying case comprising hingedly connected sections, each constituted of rigidly connected walls, a garment carrying unit mounted for pivotal movement in the case, said garment carrying unit including spaced

hanger supports at the outer free end thereof, hangers engageable at their ends with said supports and adapted to have garments draped thereover, and members hingedly



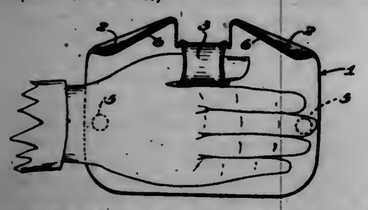
connected with said supports and movable over the hanger supports to secure the hangers between the hanger supports and said members.

1,919,083. HAND LUGGAGE. GEORGE HENRY WHEARY and BENJAMIN M. HAMLIN, Racine, Wis., assignors to Wheary Trunk Company, Racine, Wis., a Corporation of Wisconsin. Filed Nov. 2, 1929. Serial No. 404,297. 2 Claims. (Cl. 190—41.)



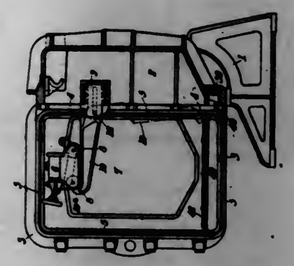
1. Hand luggage of the character described, comprising a main section, a cover hingedly connected thereto, a garment carrying frame including side members having their inner end portions pivotally connected with the cover adjacent its hinged connection with the main section, whereby the garment carrying frame may be swung to and from a position within the cover, pivotally connected link members connecting the garment carrying frame and the cover for limiting outward movement of the garment carrying frame, and means carried by said link members for readily releasably securing the garment carrying frame within the cover.

1,919,084. HAND PROTECTOR. GEORGE D. WYANT, Allison, Pa., assignor of one-half to D. D. Dodge, Uniontown, Pa. Filed Oct. 15, 1932. Serial No. 637,863. 6 Claims. (Cl. 2—20.)



1. A hand-protector for shielding a hand from blows of a tool, comprising a shield of blow-resisting material, and means associated therewith adapted to be engaged by a thumb and forming the sole means for holding said shield in protecting position over the back of a hand, said means being disposed on the same side of the shield as said hand.

1,919,085. LEAF FILTER. EUSTACE ALEXANDER ALLIOTT, Amersham, England. Filed June 24, 1930, Serial No. 463,460, and in Great Britain Aug. 15, 1929. 17 Claims. (Cl. 210—181.)



1. A leaf filter having a casing with a door normally closing it and a header mounted independently of said door, in combination with a number of filter leaves secured to said header, rails for supporting said header and filter leaves for movement relative to said casing and door, whereby the header with its filter leaves thereon can be drawn out on the rails as a unit after the door is opened.

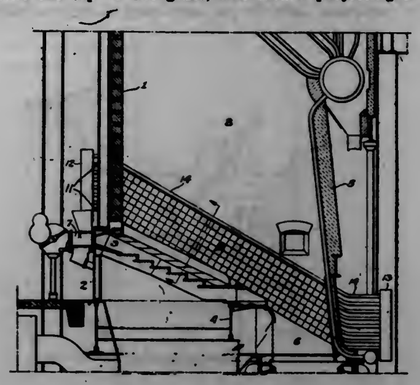
1,919,086. JIGGING CONVEYER. ARNO ANDREAS, Munster in Westfalen, Germany. Filed Nov. 14, 1929, Serial No. 407,237, and in Germany Nov. 16, 1928. 7 Claims. (Cl. 192—220.)



1. A jigging conveyer comprising a conveyer trough adapted to oscillate at a high frequency having a closed cross section along its entire length consisting of a plurality of similarly shaped compartments forming the lower portion of the said conveying trough, while the upper portion of said conveying trough comprises an air chamber common to the similarly shaped compartments forming the lower portion of the said conveying trough, a resilient support for said trough and means for oscillating said trough at a frequency of at least 500 oscillations per minute.

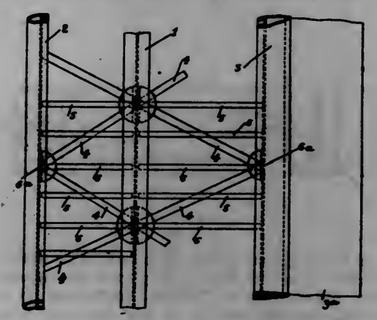
1,919,087. FURNACE SIDE WALL. WILLIAM I. BOWDEN, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 8, 1929. Serial No. 384,247. 11 Claims. (Cl. 122—6.)

9. In a furnace, a stoker including a grate and means for advancing fuel over said grate, a wall adjoining a side of said grate, means for cooling an area of said wall adjacent the top of the grate, and means projecting from



the surface of said wall for diverting molten slag flowing down the wall from said area.

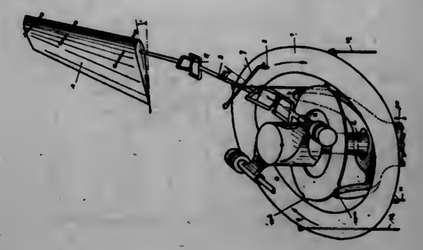
1,919,088. WING STRUCTURE FOR FLYING MACHINES. LOUIS BRÉGUET, Paris, France, assignor to Societe Anonyme des Ateliers d'Aviation Louis Breguet, Paris, France, a Company of France. Filed Jan. 28, 1932, Serial No. 589,480, and in France Mar. 25, 1931. 6 Claims. (Cl. 244—31.)



1. An airplane wing structure of the type described comprising in combination, a main spar at right angles to the fore and aft direction of the airplane located in the part of the profile of the wing where the thickness thereof is maximum, two secondary spars parallel to the first mentioned one, one of said secondary spars forming the leading edge of the wing and the other one forming the rear edge of the fixed part of said wing, a plurality of bracing members forming a zig-zag latticing between the main spar and the first mentioned secondary spar, a plurality of bracing members forming a zig-zag latticing between the main spar and the second mentioned secondary spar, and a plurality of light members extending between said main spar and said secondary spars at right angles thereto, adapted to support the wing covering.

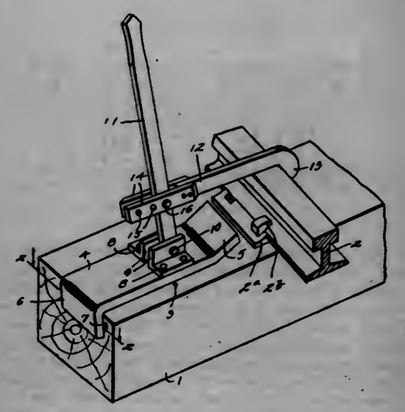
1,919,089. FLYING MACHINE HAVING REVOLVING SUPPORTING SURFACES. LOUIS BRÉGUET and RENÉ DORAND, Paris, France; said Dorand assignor to said Breguet. Filed May 14, 1931, Serial No. 537,438, and in France May 21, 1930. 18 Claims. (Cl. 244—19.)

2. A flying machine of the type described comprising in combination, an upright shaft, two blades or airfoils radially disposed on either side of said shaft, an arm for supporting each of said blades substantially parallel to the leading edge thereof, two joints at right angles and a bearing for connecting said arm to said shaft, whereby said arm can rotate in any direction whatever with respect to said shaft and can revolve about its own longitudinal axis, a guiding member slidably and pivotally



mounted on said shaft, means for causing said member to slide along said shaft, and means for causing said member to oscillate about any axis passing through said shaft, and means connected to said arm and adapted to cooperate with said guiding member for controlling the angle of incidence of the blade.

1,919,090. DEVICE FOR HANDLING RAILWAY RAILS. JUNIUS E. BUSBY, Jackson, Ky., assignor of one-half to Thomas Arthur Gabbard, Oakdale, Ky. Filed Apr. 5, 1932. Serial No. 603,330. Claims. (Cl. 254—44.)

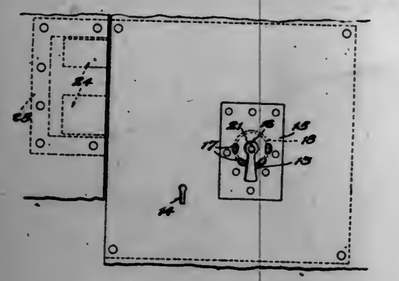


3. A track rail jack, comprising a base member, a pair of ears carried by said member, a lever pivotally connected at one end between said ears, a bar member extending at one end transversely of the lever and formed to facilitate its longitudinal adjustment on the lever and pivotal connection therewith, and a hook formed at the opposite end of the bar and having its inner surface designed to conform to the side contour of the ball of a railway rail.

1,919,091. LOCK. ANTONIO CHILLEMI, Washington, D. C. Filed Sept. 25, 1928. Serial No. 306,198. 7 Claims. (Cl. 70—78.)

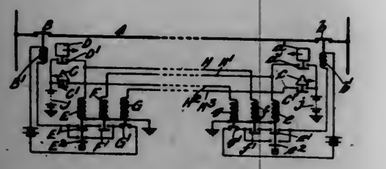
1. In a lock mechanism, a casing having a main and an auxiliary key hole, a locking bolt, means associated with said bolt in its locked position for covering said auxiliary key hole, means adapted to be engaged by a false key in-

serted through the main key hole to prevent removal of said key, and actuated by said key to simultaneously uncover said auxiliary key hole, and means actuated by a



key insertable within the last mentioned key hole and utilized to effect a release of the false key, and means actuated by an additional key for actuating said bolt.

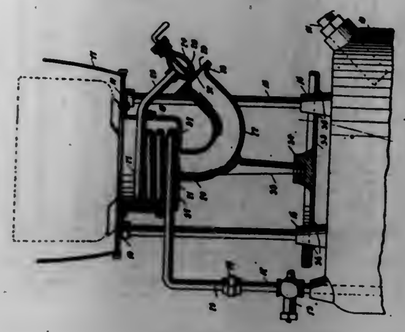
1,919,092. PROTECTIVE ARRANGEMENT FOR SECTIONALIZED ELECTRIC POWER CIRCUITS. HENRY WILLIAM CLOTHIER, Newcastle-upon-Tyne, BRUCE HAMER LESSON, Tynemouth, and HENRY LEBEN, Harrow, England, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a Company of Great Britain. Filed Sept. 30, 1932, Serial No. 635,690, and in Great Britain Oct. 15, 1931. 22 Claims. (Cl. 175—294.)



1. The combination with a sectionalized electric power circuit, of circuit-breakers for isolating the sections of the power circuit from one another, a trip circuit for each circuit-breaker, and a protective arrangement for protecting each section independently of the other sections comprising a tripping relay device at each end of the section, means whereby each tripping relay device when it operates initiates the transmission of a tripping current signal to the remote end of the section, means whereby the trip circuit of the circuit-breaker at each end of the section is controlled jointly by the operation of the adjacent tripping relay device and by the tripping current signal received from the remote end, and means for preventing tripping of the circuit-breakers at both ends when power is flowing into the section at one end and out from the section at the other end.

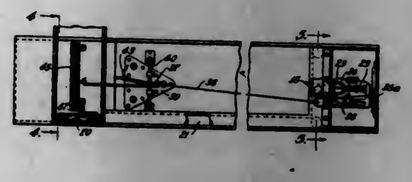
1,919,093. DOWN DRAFT PLUMBER'S FURNACE. WILLIAM J. COLLISON, Bakersfield, Calif. Filed Apr. 27, 1932. Serial No. 607,844. 1 Claim. (Cl. 126—240.)

In a plumber's furnace, a fuel supply tank, means to convey the fuel therefrom, a grate, legs secured to said grate and tank, a fire pot secured to the grate, an arcuate tubular burner integral with the bottom of said fire pot and having its free end extending upwardly providing a down draft burner, a leg on said tubular burner, a fender plate supported above the tank and providing a heat shield therefor, the last mentioned leg secured to said plate, the means for conveying the fuel consisting of a tube traversing said fire pot and coiled therein, a valved



nozzle on said tube directed into the burner, a damper plate pivotally mounted on the burner and having a slot therein to receive said nozzle.

1,919,094. BOWLING GAME APPARATUS. JULIUS CUCHRAN, Chicago, Ill. Filed Nov. 27, 1931. Serial No. 577,594. 7 Claims. (Cl. 273—38.)



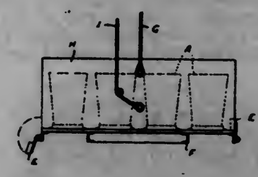
2. In bowling game apparatus, a member providing playing surface, pins and balls to be played thereat upon said surface, pin-spotting mechanism, mechanism to project said balls over said surface at said pins, and means operatively interconnecting said mechanisms whereby when said projecting mechanism is operated preparatory to its projection said pin-spotting mechanism is engaged with said pins.

1,919,095. ARTICLES OF JEWELRY AND METHOD OF MANUFACTURING THE SAME. GAETAN DE GENNARO, Paris, France. Filed Aug. 2, 1930, Serial No. 472,707, and in France Aug. 5, 1929. 3 Claims. (Cl. 41—23.)



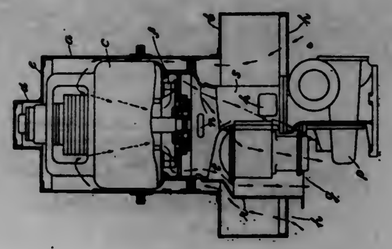
1. The method of manufacturing articles of jewelry comprising cutting a thin slightly curved silvered glass into facets, and arranging said facets upon a base.

1,919,096. VEHICLE BODY WITH DETACHABLE CONTAINERS. JAMES SIDNEY DREWRY, Letchworth, England, assignor of one-half to Shelvoke & Drewry Limited, Letchworth, England. Filed Dec. 20, 1930, Serial No. 503,810, and in Great Britain Jan. 4, 1930. 8 Claims. (Cl. 214—98.)



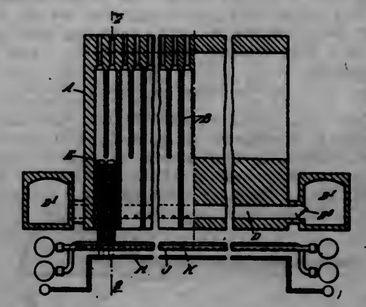
1. Apparatus for disposing of refuse or other materials accumulated in bins or containers, comprising a platform adapted to fit on a vehicle frame and to be removed therefrom, bin-engaging means carried by the platform for securing the bins to the platform during transport and when the platform is inverted, and means also carried by the platform for preventing detachment of bins from said bin-engaging means during the inversion of the platform.

1,919,097. ELECTRICALLY-DRIVEN ROTARY PUMP. JOHN WHITEHEAD WILSON DRYSDALE and JOHN YOUNG, Yoker, Glasgow, Scotland, assignors to Drysdale and Company, Limited. Yoker, Glasgow, Scotland. Filed July 30, 1931, Serial No. 554,118, and in Great Britain May 27, 1931. 1 Claim. (Cl. 103—87.)



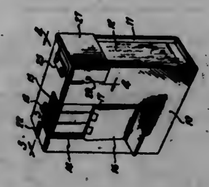
A submersible motor-driven pump unit comprising a pump having a casing, a hollow stool upstanding from said casing, a motor surmounting said stool and having provision for passage of air therethrough and to the interior of said stool, a bell enclosing said motor and stool, said bell separated from said stool by an interspace open to the atmosphere at its lower end when the unit is unsubmerged, the lateral dimensions of said bell being increased below said motor and diminished above said motor, and a fan rotatable with said motor, causing air to flow upwards through said interspace and downward through said motor and discharging hot air from said motor into the interior of said stool, said stool having an opening positioned to permit downwardly directed discharge of air into the atmosphere below the lower end of said bell without crossing said interspace, when the unit is unsubmerged, said stool being formed with ports disposed above the lower end of said bell and above said opening, said ports affording communication between the interior of said stool and said interspace, permitting circulation of air in a closed circuit through said interspace, motor and stool when the unit is submerged.

1,919,098. FURNACE, CARBONIZING CHAMBER AND RETORT, AND THE LIKE. ARTHUR MCDOUGALL DUCKHAM, London, England, assignor of one-half to Woodall-Duckham (1920) Limited, London, England. Filed June 16, 1930, Serial No. 461,458, and in Great Britain Aug. 6, 1929. 1 Claim. (Cl. 202—140.)



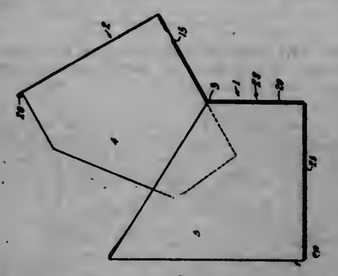
In gas-fired furnaces, retorts and other carbonising chambers a heating system therefor comprising a heating wall divided into vertical combustion flues by transverse walls, said combustion flues having the inlet and also the outlet for the heating gases at the bottom end.

1,919,099. CIGARETTE PACKAGE HOLDER AND OPENER. DAVID ELLIOTT, Johnstown, Pa. Filed Feb. 17, 1932. Serial No. 593,662. 5 Claims. (Cl. 206—41.)



1. A cigarette package opener and holder comprising a casing having an opening therein through which a package of cigarettes may be inserted, means within said casing for lifting the wrapping of an inserted cigarette package away from the contents thereof, and knife means within said casing adapted to cut the side of a package lifted by said means.

1,919,100. FOLDING BOX. LEEDS K. FIELD, Brooklyn, N. Y. Filed July 22, 1932. Serial No. 624,102. 2 Claims. (Cl. 229—44.)



1. A box of the character described comprising a single integral blank formed in two sections, the section forming the body presenting two substantially V-shaped members, said members when folded being parallel to each

other and thus presenting a pair of side members for the body of the box, that part of the blank forming the cover being provided with a central panel with a pair of side sections forming sides to the cover when the blank is folded, said sides being positioned to slide between the respective side members of the body, the blank being also provided with a pair of panels, one acting as one ply of the back of the body and the other as one ply of the back of the cover, the material connecting said panels acting as a hinge for the cover when the box is in a folded position.

1,919,101. BEATER CONSTRUCTION. PATRICK J. FITZGERALD, Torrington, Conn., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn., a Corporation of Connecticut. Filed June 4, 1931. Serial No. 542,188. 1 Claim. (Cl. 259—106.)
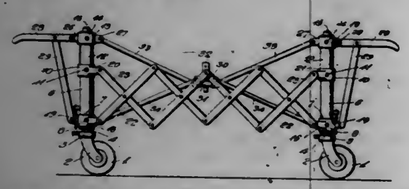


A beater blade comprising a tubular portion having integrally joined arms extending away from and then toward one another so that the free ends lie substantially in a plane at a right angle to the axis of the tubular portion, a mushroom-headed rivet engaged with said arms and fitting over the lugs thereof, and a washer surrounding said rivet and engaged with the opposite surfaces of said arms, said rivet having a crimped portion engaging said washer to hold the arms and lugs clamped together and to said rivet.

1,919,102. SEPARABLE BEATER FOR MIXING DEVICES. PATRICK J. FITZGERALD, Torrington, Conn., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn., a Corporation of Connecticut. Filed April 19, 1932. Serial No. 606,205. 2 Claims. (Cl. 259—129.)



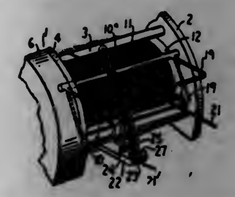
1. A separable beater for a mixing device comprising a driving spindle having chordally extending grooves adjacent one end of the spindle and arranged to form said spindle polygonal in cross section, two paddle strips providing paddles and having their ends provided with offset portions engaging in said grooves, and a ferrule for holding said projections in said grooves.

1,919,103. CHURCH TRUCK. ARTHUR H. DOLGE, Westport, Conn. Filed June 18, 1932. Serial No. 618,041. 1 Claim. (Cl. 280—36.)



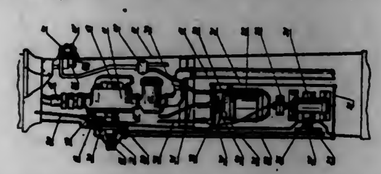
A church truck comprising wheels, bifurcations adapted to engage the wheels, collars arranged above the bifurcations, posts to which collars are adjustably secured, ears formed on the collars, end and side lazy tong bars secured to the collars, other posts adapted to enter in telescopic manner the first post, adjustable collars, mounted on the second posts, ears formed on the second collars, lazy tong bars secured to the sides and ends of the collars, other collars adjustably mounted on the upper end of the second posts, feet mounted in the last named collars, bars secured to the outwardly extending bars and hinged thereto and secured to the first collars and a locking device arranged within the bars of the last collars and a handle rigidly securing the locking device to prevent collapse of the truck in extended position.

1,919,104. FISHLINE REEL. ALFRED W. F. GUEST, Brooklyn, N. Y. Filed May 21, 1931. Serial No. 538,897. 4 Claims. (Cl. 242—84.5.)



1. In a fish line reel, the combination of a frame, a spool rotatably mounted in the frame, a brake member secured to the frame and adapted to apply a braking action to the spool, a device adapted to be actuated by the fish line when the latter is under tension to automatically release the brake, and a hook guide on the reel adapted to engage the line when desired to prevent its actuation of said device to release the brake.

1,919,105. ELECTRICAL CONTROLLING DEVICE FOR LIQUID DISTRIBUTORS. JOSEPH JEAN MARIE GUEUX, Ivry-sur-Seine, France. Filed Nov. 12, 1931, Serial No. 574,635, and in France Nov. 12, 1930. 3 Claims. (Cl. 221—101.)



1. An electric operating device for automatic liquid distributors comprising a pump, an electric motor for controlling said pump, a speed reducer between said motor and pump, and a leakproof casing enclosing said electric motor and speed reducer and mounted within the body of the distributor.

1,919,106. PLUMB AND LEVEL. STANLEY HAMERNICK, Manville, N. J. Filed Jan. 25, 1932. Serial No. 588,701. 6 Claims. (Cl. 33—215.)



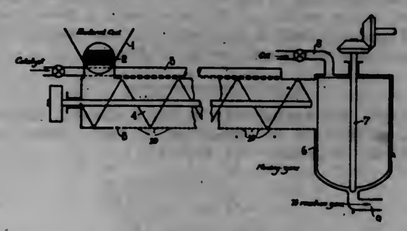
5. A level indicator including a protractor disk carrying angle indicia on opposite faces, a screw extending centrally through the disk and projecting at opposite sides, a bearing threaded on each end of the screw and each bearing having an outer end flange, a washer on the screw at each side of the disk and respectively engaged with the inner ends of the bearings, a head at one end of the screw and a cross pin at the other end for retaining the bearings thereon and a combined indicator arm and plumb bob having a hub rotatably supported on each bearing.

1,919,107. TRANSPORTATION AND HOLDING OF TOBACCO AND SIMILAR MATERIALS. GORDON DON HARRIS, Sound Beach, Conn., assignor to The Industrial Dryer Corporation, Stamford, Conn., a Corporation of Connecticut. Filed Mar. 29, 1930. Serial No. 440,061. 3 Claims. (Cl. 131—55.)



1. An apparatus for transporting tobacco comprising a portable container, adapted to contain a body of water therein, a tobacco receptacle positioned in the container and spaced from the bottom and side walls of the container to provide a space for the circulation of a gas which flows in contact with the water and in contact with material in said receptacle, solid porous blocks positioned in said container for increasing the contact area of the body of water, and means associated with the container for supporting a tobacco carrying stick, exteriorly of the container.

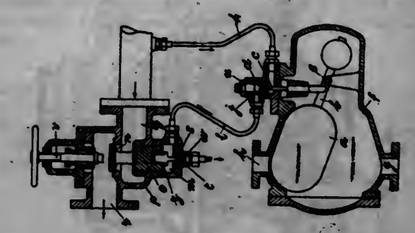
1,919,108. DESTRUCTIVE HYDROGENATION OF SOLID CARBONACEOUS MATERIAL. CHARLES FREDERICK REID HARRISON and HOWARD WILLIAM STRONG, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited, London, England, a British Company. Filed Mar. 31, 1930, Serial No. 440,628, and in Great Britain Apr. 17, 1929. 3 Claims. (Cl. 196—53.)



1. Process for the destructive hydrogenation of solid carbonaceous material which consists in spraying the comminuted material in absence of oil with a limited amount of an aqueous solution of a substance giving rise to a hydrogenating catalyst, mixing the coated material with an oil, and thereafter causing it to react with hydrogen under an elevated temperature and pressure.

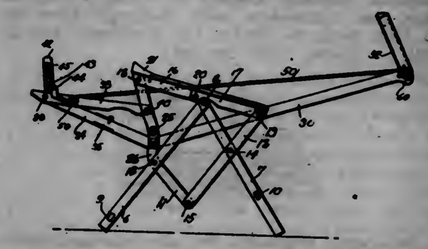
1,919,109. LIQUID LEVEL REGULATOR. HAROLD HILLIER, Glasgow, Scotland, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Filed Apr. 23, 1932, Serial No. 607,189, and in Great Britain May 5, 1931. 18 Claims. (Cl. 137—101.)

1. A feed water regulator comprising, in combination, a main valve, a piston unitary with said main valve, a chamber accommodating said piston, a passage for pressure fluid connected to said chamber, the face of said piston remote from said main valve being exposed to the pressure of said fluid in said chamber, a flow-off connection from said chamber, a float-operated auxiliary valve controlling said passage for pressure fluid, and a pilot



needle valve depending for its operation on the movement of said piston and main valve and controlling said flow-off connection.

1,919,110. FOLDING CHAIR. STEPAN HORVATH, Zagreb, Jugoslavia, assignor of one-half to George Musulin, Johnstown, Pa. Filed Nov. 18, 1932. Serial No. 643,277. 6 Claims. (Cl. 155—107.)



3. A folding reclining chair of the character described, comprising at each side, a frame including pivotally connected supporting legs and side bars arranged in a lazy-tong manner, a back supporting member pivoted to one of the side bars, a leg rest supporting bar pivoted to the other side bar, a hinged arm rest bar connecting the side bars for holding the same in an extended position, a bar having an intermediate hinged joint connecting at its ends the lower extremity of the back supporting member to the leg rest supporting bar and a flexible fabric connecting the extreme upper end of the back supporting members to the lower portion of the leg rest supporting bars.

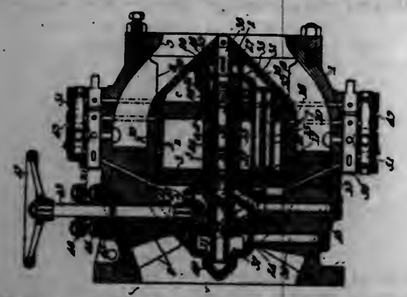
1,919,111. FRICTION DISKS AND METHOD OF MAKING THE SAME. RAYMOND W. KENT, Newton, Mass., assignor to Thermoid Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Dec. 16, 1931. Serial No. 581,473. 14 Claims. (Cl. 18—53.)

14. The method of making friction disks which comprises subjecting unvulcanized rubber to heat and pressure for a time sufficient to render it viscous, but insufficient to cause decomposition, mixing said viscous rubber with asbestos fibres and sulphur, shaping said rubber mix to form friction disks, and thereafter vulcanising said friction disks to a point approaching the maximum tensile strength of the rubber and the maximum saturation point of the sulphur by the rubber.

1,919,112. HYDRO-MECHANICALLY CONTROLLED NEEDLE VALVE. PHILLIP A. KINZIE, Denver, Colo., assignor to Universal Hydraulic Corporation, Denver, Colo., a Corporation of Colorado. Filed June 18, 1930. Serial No. 462,109. 41 Claims. (Cl. 137—139.)

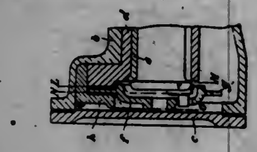
1. A valve adapted to be operated by fluid pressure having in combination, flow controlling means, pressure

chambers, a manifold tube within said flow controlling means and a distributing valve within said flow con-



trolling means, said manifold tube arranged to conduct a fluid pressure medium from said distributing valve to the pressure chambers.

1,919,113. LUBRICATING MEANS FOR AXLE BEARINGS OF VEHICLES. WALTER LEHMANN, Wuppertal-Elberfeld, Germany, assignor to Walter Peyinghaus, Egge, near Volmarstein, Ruhr, Germany. Filed Oct. 26, 1932, Serial No. 639,712, and in Germany Feb. 20, 1931. 3 Claims. (Cl. 308—86.)



3. Lubricating mechanism for axle bearings comprising a bearing having a groove therein, an oil carrying disc rotatable through said groove, said groove gradually decreasing in a direction axial of the bearing and in the same direction as the rotation of said disc until the groove is just sufficient to allow the oil carrying disc to rotate through it, said bearing having therein an oil duct lying directly in front of the highest part of the disc and said duct leading to the point desired to be lubricated.

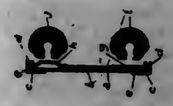
1,919,114. LAMP STAND. GEORGE ALBERT LEY, Chicago, Ill. Filed July 7, 1931. Serial No. 549,296. 1 Claim. (Cl. 248—7.)



In an adjustable stand, a hollow standard, a one-piece continuous standard slidable therewithin, said slidable standard having alined apertures, a friction shoe fitting and mounted in each aperture and movable therethrough, each of said shoes having a spring seat disposed in opposed relation to the other and a helical spring positioned between said shoes and retained within said seats for forcing said shoes into contact with said hollow standard.

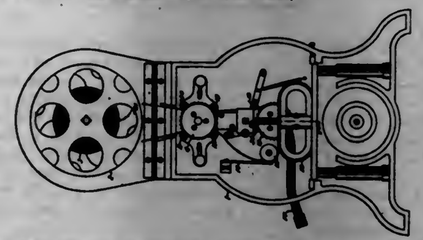
1,919,115. DEVICE FOR GIVING MOVING PICTURES THE APPEARANCE OF RELIEF. CHARLES MAURY and VICTOR ADRIEN HOUSSIN, Bordeaux, France. Filed June 30, 1931, Serial No. 547,995, and in France July 21, 1930. 3 Claims. (Cl. 88—16.6.)

1. A light obstructing device for giving motion pictures the appearance of relief, comprising a series of relatively thin metallic blades arranged in parallel relation and adapted to pivot about their longitudinal axes for positioning in two different positions one substantially perpendicular to the other, each of said blades terminating with a part disposed at an angle with respect to the body of the blade, a support carrying the blades and having



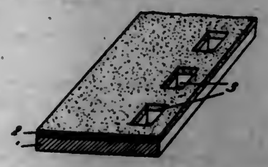
an opening therein to be covered by said blades, and electro-magnetic means arranged adjacent the angularly disposed parts terminating the blade and acting thereon to successively displace the blades in parallel relation to the opening in the support or in perpendicular relation to said opening.

1,919,116. SOUND RECORD AND METHOD OF AND APPARATUS FOR MAKING IT. JAMES A. MILLER, Forest Hills, N. Y. Filed Sept. 30, 1931. Serial No. 566,152. 11 Claims. (Cl. 274—46.)



3. The method of making a sound record on a transparent base having an opaque coating and an intermediate transparent material between the base and the coating which is of softer composition than the base, which comprises moving the transparent base and simultaneously cutting through the opaque coating into said intermediate material and varying the depth of the cut in accordance with the sound to be recorded, the variations in the depth of the cut being accompanied by corresponding variations in the width of the transparent track formed in the coating by the cut whereby a transparent sound track is formed in the coating having a width which varies in accordance with the recorded sound.

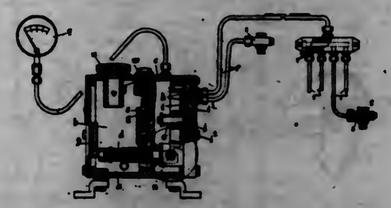
1,919,117. SOUND RECORD BLANK. JAMES A. MILLER, Forest Hills, N. Y. Filed Oct. 7, 1931. Serial No. 567,440. 4 Claims. (Cl. 274—48.)



1. A sound record blank adapted to receive a sound track capable of optical reproduction comprising a transparent base having a coating of translucent material consisting of a photographic emulsion which has been partly exposed and developed.

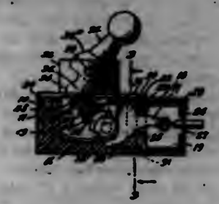
1,919,118. FORCED FEED LUBRICATOR. DAVID MILLINGTON, Huddersfield, England, assignor to Hopkinsons Limited, Huddersfield, England, a British Company. Filed Jan. 27, 1932, Serial No. 589,187, and in Great Britain Jan. 30, 1931. 2 Claims. (Cl. 184—7.)

1. The combination in a forced feed lubricator of, a casing with a lubricant reservoir and a delivery compartment therein, a plurality of delivery holes in a wall of said delivery compartment, a disc valve with one or more holes therein rotated to bring its holes into coincidence with the delivery holes, a reciprocating pump drawing from said reservoir and delivering into said compartment more lubricant than can pass through said delivery holes as they are periodically uncovered by the hole or holes



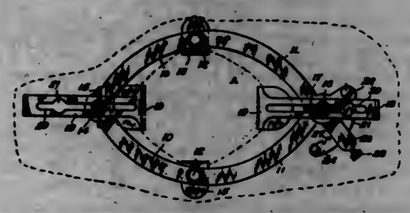
in said disc valve, a relief valve allowing the excess lubricant to return from the delivery compartment to the reservoir, the pressure in the delivery compartment holding said disc valve in good contact with the face of the apertured wall over which it rotates, a light spring pressing upon said disc valve to hold it initially on said face in the absence of delivery pressure, and a shaft rotating said disc valve and reciprocating said pump.

1,919,119. TUMBLER SWITCH. ARVID H. NERO, West Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed July 2, 1929. Serial No. 375,394. 3 Claims. (Cl. 200—67.)



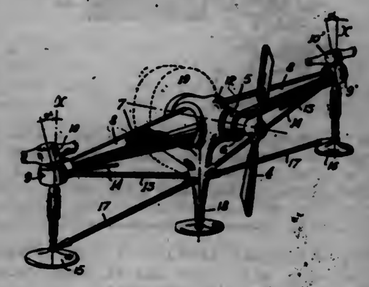
8. An electric switch comprising a base of molded insulating material having a well for the switch movement, a wing of insulating material extending from one wall of the said base, conductive pieces extending through the said wall and having lead-wire terminals on opposite sides of the said wing, together with a cap member apertured for lead wires and enclosing the wire terminals, means engaging said cap to hold it in position at the end of said base, and a cover member holding said conductive pieces in said base and holding said means upon said base.

1,919,120. SURGICAL INSTRUMENT. BERNARD A. O'CONNOR and JOHN R. O'SULLIVAN, Kearney, N. J. Filed Feb. 10, 1932. Serial No. 592,143. 4 Claims. (Cl. 128—20.)



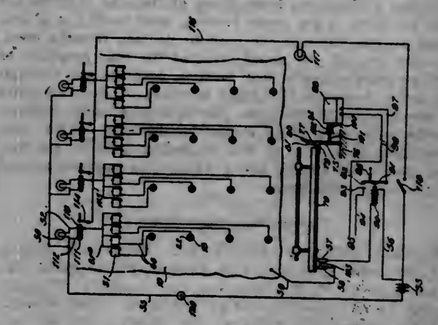
1. A clamp of the character described comprising two pairs of curved arms, the arms of each pair pivotally connected at one end and pivotally connected at their other ends with the ends of the other pair, hook-like members mounted at said second named pivots, retractors pivotally and slidably mounted at the first named pivots, and means for locking said arms against relative movement.

1,919,121. ARRANGEMENT OF SUSTAINING PROPELLERS IN AERIAL NAVIGATION MACHINES. ETIENNE EDMOND OEHMICHEN, Valentiguey, France. Filed Jan. 27, 1932, Serial No. 589,277, and in France Feb. 3, 1931. 4 Claims. (Cl. 244—7.)



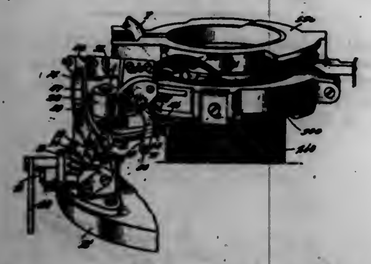
2. In an aerial navigation machine, a balloon body containing a light gas, susuceptible of partially equilibrating the total weight of the machine; an arrangement for sustaining and propelling the machine, wherein the sustaining effort is independent of the propulsive speed, said arrangement comprising a propeller system having an axis constructionally inclined at an angle approximating 10° with respect to the vertical plane transverse to the axis of the machine, and developing simultaneously a suspension and traction effort, the axis of said propeller system being fixed and passing through the general center of gravity of the machine; and, disconnectible auxiliary propelling means having a variable action and capable of developing traction or braking efforts.

1,919,122. WINDING MECHANISM. LOUIS OSKOW, Brooklyn, N. Y., assignor to Barlo Engineering Co. Inc., Long Island City, N. Y., a Corporation. Filed June 3, 1930, Serial No. 459,052. Renewed Apr. 11, 1933. 5 Claims. (Cl. 28—51.)



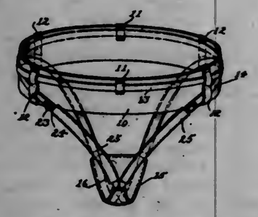
1. In combination with a creel, a plurality of bobbins mounted thereon, means for unwinding the threads from said bobbins, electrical signal devices associated with each bobbin, means for actuating one of said devices for indicating which bobbin has a broken thread upon the event of breakage of one of said threads, and means for automatically rendering the remainder of said signal devices inoperative upon actuation of one of said devices.

1,919,123. BINDING AND CUTTING MECHANISM FOR KNITTING MACHINES. ALBERT E. PAGE, Brooklyn, N. Y., assignor to Scott & Williams, Incorporated, New York, N. Y., a Corporation of Massachusetts. Filed Apr. 2, 1931. Serial No. 527,306. 35 Claims. (Cl. 66—134.)



1. In a circular knitting machine having a latch guard ring and a sinker ring, a yarn binding and cutting mechanism mounted outside said rings and movable to an operative position between said rings.

1,919,124. SANITARY APPLIANCE. HENRY PANULLO, Atlantic City, N. J. Filed July 18, 1931. Serial No. 551,742. 1 Claim. (Cl. 128—289.)



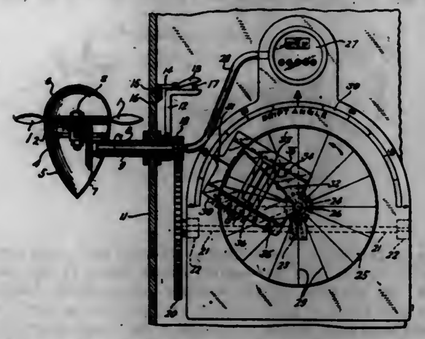
An appliance of the class described comprising a waist encircling band, front and rear loop forming members attached to the upper part of said band each member forming a single loop, a pair of spaced double loop forming members at each side of the band, each of the last-mentioned loop-forming members providing an upper loop and a lower loop, a strap passing through the front hingle loop forming member and through the upper loops of the front members of the pairs of double loop forming members, and through the lower loops of the rear pair thereof with the ends of the strap curving downwardly, a second strap passing through the rear single loop forming member and through the upper loops of the rear members of the two pairs of double loop forming members and through the lower loops of the front members of the two pairs of members, with the ends of the second strap, curving downwardly, supporting straps having their upper ends detachably connected to the depending ends of the two first mentioned straps, and a supporting member carried by the supporting straps.

1,919,125. METAL CUTTING OIL. RICHARD H. PATCH, Jenkintown, and JOSEPH M. LEAPER, Philadelphia, Pa., assignors to E. F. Houghton and Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 22, 1931. Serial No. 539,414. 17 Claims. (Cl. 87—9.)

1. A metal cutting oil containing tallOil as one ingredient.

1,919,126. AIR-VEHICLE INDICATING MEANS. JOHN R. PERKINS, Washington, Conn. Filed Apr. 16, 1929. Serial No. 355,603. 19 Claims. (Cl. 33—46.5.)

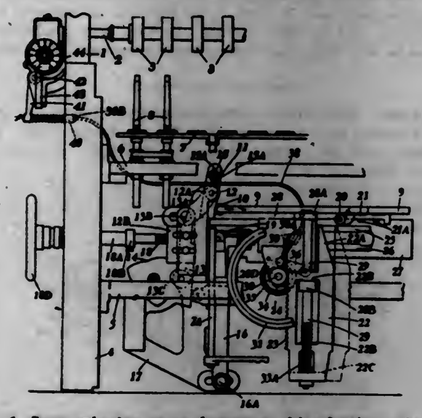
1. In a ground speed indicator for aircraft, in combination, a pair of relatively movable members, one of which is driven; and means for driving said driven member and including a propeller driven by relative movement between the aircraft and air, and means for changing the rate of drive of said driven member comprising means for changing the responsiveness of said propeller to said relative movement between the aircraft and the air.



4. A ground speed indicator for air craft comprising in combination an eye piece, translatable means positioned beneath said eye piece for providing a directional line along which ground objects appear to move when viewed through said eye piece, a rotating means movable relative to said directional line, said translatable means being adjustable toward and away from the center of rotation of said rotating means, means for controlling the rotative speed of said last means so that the angular velocity of points thereon along said directional line relative to said eye piece will be equal to the angular velocity of ground objects relative to said eye piece, and indicating means with respect to which said translatable means may be adjusted so as to include altitude as a factor determining the speed of said rotating means.

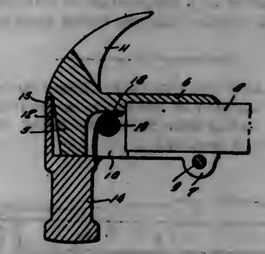
13. In a ground speed indicator for air craft, in combination, a rotatable disk, and means for turning said disk comprising a pivotally mounted casing, a propeller member journalled in said casing, and means for adjusting the angular position of said casing relative to the line of flight to vary the angular velocity of said propeller member.

1,919,127. BUILDER MOTION FOR RING, CAP OR FLYER SPINNING, TWISTING, AND ANALOGOUS MACHINES. WILLIAM PRINCE-SMITH, Keighley, England. Filed Dec. 5, 1931, Serial No. 579,286, and in Great Britain Nov. 11, 1931. 5 Claims. (Cl. 242—43.3.)



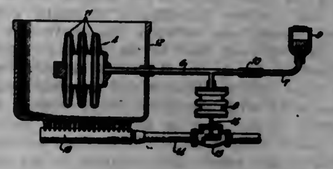
1. In a spinning or analogous machine having a bunch builder motion giving a short traverse to the bunch and after a predetermined time shifting to a long traverse for winding the spool, a builder motion cam, a lifter motion, devices operable when the machine is stopped to break operative connection between said builder motion cam and said lifter motion whereby to ensure that the bunch is built at the base of each spool irrespective of the angular position in which said builder motion cam comes to rest, a linkage to convert the standard pick of the builder motion to the short pick requisite for building said bunch, automatically, for the full period of the bunch building operation, and delivery regulating mechanism whereby a selected predetermined length of yarn, unaltered by any change in counts or in the speed of the lifter motion, is automatically delivered and wrapped on to the bunch.

1,919,128. CLAW HAMMER. CHALMERS R. REDDEN, Framingham, Mass. Filed Apr. 15, 1931, Serial No. 530,382. Renewed Dec. 15, 1932. 3 Claims. (Cl. 254—26.)



1. In a hammer of the class described, a body with a claw thereon, a ball pivotally mounted on the body, and means normally holding the ball in predetermined position with respect to the body, said means being in the form of a spring mounted on the pivot and engaged with the ball.

1,919,129. TEMPERATURE CONTROL MEANS. WLADIMIR A. REICHEL, Brooklyn, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a Corporation of Delaware. Filed Jan. 27, 1932. Serial No. 589,293. 6 Claims. (Cl. 236—99.)
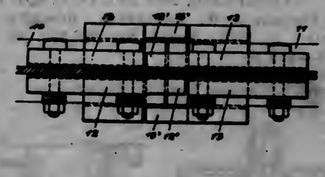


1. In temperature controlled apparatus responsive to the rate of change of temperature, a heat-exchanger member provided with an interior chamber, an expansible member having an interior expansible chamber, means including said chambers and a defining space containing an expansible fluid and having a single restricted passage affording communication between said space and a region externally thereof whereby, due to a difference of pressure created between the inside and outside of the expansible member upon a change in temperature, the fluid is caused to flow between the space and the external region in accordance with the rate of change of temperature to equalize said pressure difference, and a regulating device controlled by the rate of flow through said restricted passage.

1,919,130. CHANNEL. JAMES S. REID, Shaker Heights, Ohio, assignor to The Reid Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 20, 1930. Serial No. 483,221. 19 Claims. (Cl. 296—44.5.)



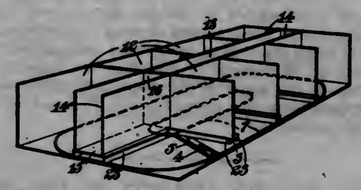
14. A glass run channel, comprising a generally channel shaped structure having a base and a pair of side walls, and metallic finishing strips for the outer longitudinal edge portions of said side walls, said strips being slidably mounted on said side wall edge portions.

1,919,131. RAIL-JOINT CONNECTION. OTTO REIFURTH, Immigrath, and ALFRED MÖLLER, Recklinghausen, Germany. Filed Feb. 9, 1932, Serial No. 591,854, and in Germany Feb. 14, 1931. 4 Claims. (Cl. 238—187.)



1. A rail-joint connection comprising divided splice bars embracing the rail foot, each splice bar consisting of a guiding bar and a supporting bar, an extension on each guiding bar above the rail foot, and an extension on each supporting bar below the rail foot, the said extensions projecting partly beyond the end of the rail to which they are secured, and overlapping one another when the rails are put together to form a joint.

1,919,132. CLEANING OF ROOMS. ALLAN RILEY, Filongley, near Coventry, England. Filed Apr. 6, 1932, Serial No. 603,581, and in Great Britain Apr. 7, 1931. 3 Claims. (Cl. 15—1.)



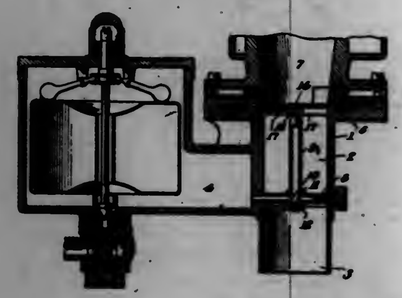
1. In a cleaning device for the floors of a building, the combination of walls defining compartments in the building and provided with spaces at the bottom of the walls opening against the floors, hinged skirting boards carried by the walls and normally suspended to enclose said spaces, a cleaning element for movement over said floor and having guide means projecting beneath said skirting boards and into said spaces, and guide rails disposed in said spaces beneath the walls and engaging the guide means of the cleaning element to maintain the latter in position when moved over the floor.

1,919,133. AUTOMATICALLY OPENING PAINT TUBE. GEORGES ROLOT, Beaune, France. Filed July 21, 1932. Serial No. 623,877. 3 Claims. (Cl. 206—56.)



1. In a paint-stick case, a central tube, an outer shell, means to fix said tube and said shell, a tube within said outer shell to move on said central tube, a sleeve movable within said central tube to support the paint-stick, a longitudinal slit in said outer shell, a longitudinal slit in said central tube, a longitudinal slit in said movable tube, an inclined portion in the lower part of said latter slit to undergo the push of the pusher-stem, a stud fixed to the central tube, a helicoidal slit in said movable tube to engage said stud, a pusher, a stem on said pusher to traverse all said longitudinal slits and said sleeve and to terminate within the latter with a hooked extremity.

1,919,134. CARBURETOR JET AND CONTROL THEREFOR. FREDERICK W. SCHAFFNER, Brooklyn, N. Y. Filed Mar. 2, 1932. Serial No. 596,352. 6 Claims. (Cl. 261—44.)

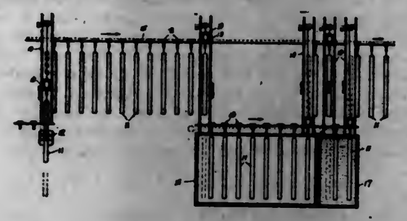


1. A carburetor jet comprising a hollow T-shaped element to receive fuel and including leg and head portions, said head portion in the top wall thereof having jet openings, said head portion having its ends opened, removable plugs for closing the opened ends of the head, and means on said plugs to facilitate the removal and application of the latter to the head, said means engaging the carburetor for centering the T-shaped element within the carburetor.

1,919,135. REACTION PRODUCTS OF ARYL THIOUREAS AND ALDEHYDES AND METHOD OF PREPARING SAME. JOHN G. SCHMIDT, Philadelphia, Pa., assignor to E. F. Houghton and Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 21, 1928. Serial No. 263,593. 14 Claims. (Cl. 260—3.)

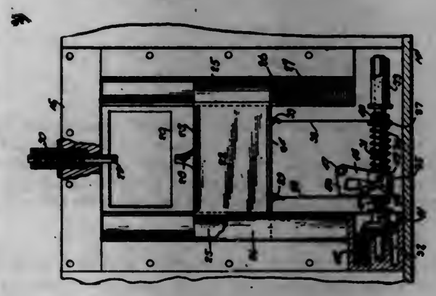
1. The process of preparing a reaction product between aryl thioureas and aldehydes which comprises reacting 1 mol of an aryl thiourea and an aldehyde in the neighborhood of 2 mols with each other in substantially neutral surroundings in the presence of heat until a chemical reaction between said compounds has taken place, and thereafter separating the reaction product.

1,919,136. ENAMELED METAL ARTICLES AND METHOD OF PRODUCING THEM. LLOYD RAYMOND SMITH, Milwaukee, Wis. Filed Feb. 15, 1933. Serial No. 656,807. 20 Claims. (Cl. 91—73.)



1. In the manufacture of vitreous enameled metal articles, the step which consists in submerging the enamel coated article in a quenching medium of fused sodium nitrate maintained at a temperature of 600–900° F. when the article is at substantially the fusing down temperature of the enamel.

1,919,137. BANK PROTECTOR. LOUIS SZATLER, Hammond, Ind., assignor of one-half to Aranka Csank, Hammond, Ind. Filed July 29, 1932. Serial No. 625,801. 2 Claims. (Cl. 268—2.)



1. Operating means for a bank protector wherein a sliding guard plate is adapted to be spring raised to closed position relative to a bank teller's window, means for holding the guard plate in set position out of registry with the window including a manually rotatable shaft, cord connections between the shaft and guard plate, a clutch element fixed to the shaft, a cooperating clutch element loose on the shaft and normally engaged with the fixed clutch element and manually operable means associated with the loose clutch element to prevent rotation thereof and to disengage the same from the fixed clutch element to permit rotation of the shaft and closing of the guard plate relative to the window, the operating means for the loose clutch element including a bell crank lever, one leg of the lever engaged with said loose clutch element and the other leg of the lever being of angle formation and a pedal on the last named end of the lever.

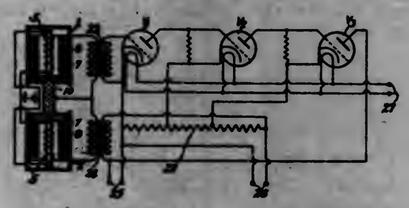
1,919,138. SELF-LUBRICATING SWIVEL BEARING. ICHIRO WAKE, Kojimachi Ku, Tokyo, Japan, assignor to Goshikwaisha Ohno Seisakusho, Tokyo, Japan, a Corporation of Japan. Filed Nov. 12, 1929. Serial No. 406,689. 9 Claims. (Cl. 308—183.)

1. In a self-lubricating swivel bearing, swivel mounted means adapted to support a revoluble shaft therein, and permit the movement of the longitudinal axis of the shaft after the shaft is in mounted position, both in a horizontal direction around the vertical axis of the bearing and in a vertical direction around the transverse horizontal axis of the bearing, comprising an enclosing casing, a cylindrical sleeve rigidly mounted on the shaft, a pair of semi-cylindrical keys mounted on the shaft, means for locking the sleeve and cylindrical keys on



the shaft, a bushing revolubly mounted on the sleeve having a pair of opposed arced surfaces on the periphery of same, and a pair of opposed supporting members pivotally mounted in the casing, each having a complementary arced surface in slidable engagement with the corresponding surface of the bushing.

1,919,139. ALTERNATING CURRENT GENERATOR. GEORGE WILLIAM WALTON, London, England. Filed Mar. 10, 1932, Serial No. 598,076, and in Great Britain Feb. 20, 1931. 10 Claims. (Cl. 171—123.)



1, An electro-mechanical vibratory system comprising a frame, a motor portion, a generator portion mechanically coupled to said motor portion, both of said portions comprising an electrical conductor and being mounted for vibration relatively to said frame, a compliance element mechanically connected between said portions and said frame and adapted to return said portions to a position of rest after displacement, means for maintaining a magnetic field of substantially constant intensity in a direction transverse of said conductors, connecting means for passing alternating current through the conductor of said motor portion to produce vibratory motion thereof and connecting means for taking from the conductor of said generator portion alternating current generated therein in response to vibratory motion thereof.

1,919,140. PROCESS FOR THE PRODUCTION OF CLEAN PAPER PULP FROM OLD PRINTED PAPER. ROBERT WEBER, Drentwede, Besirk Bremen, and FRANZ KINNEBROCK, Hameln, Germany; said Kinnebrock assignor to said Weber. Filed Nov. 13, 1930, Serial No. 495,518, and in Germany Nov. 18, 1929. 21 Claims. (Cl. 92—13.)

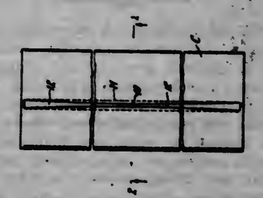
1. A process for the production of a pure paper pulp from old printed paper, to which the printer's black has been applied by means of any kind of adhesive, characterized by treating the old printed paper at ordinary temperature in one single operation without any further additions with a dissolving agent which contains practically only alkaline earth compounds with the understanding that in case the hydroxides of the alkaline earth metals are used, the latter have to be of colloidal nature.

1,919,141. PROCESS OF CARROTING FUR AND COMPOSITIONS FOR CARROTING. CLARENCE L. WEIRICH, Westport, Conn. Filed May 21, 1931. Serial No. 539,151. 6 Claims. (Cl. 8—21.)

1. A carroting solution comprising an aqueous solution of mercuric nitrate, hydrogen peroxide, nitric acid and a soluble fluoride reactive with the nitric acid to form hydrofluoric acid.

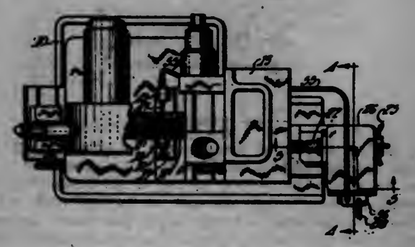
5. The process of carroting fur which comprises subjecting the fur to the action of an aqueous carroting solution containing mercuric nitrate, hydrogen peroxide and nitric acid to which has been added a small amount of a soluble fluoride.

1,919,142. AIRCRAFT. JOSEPH H. WETZEL, Trenton, N. J. Filed Aug. 16, 1932. Serial No. 629,069. 2 Claims. (Cl. 244—31.)



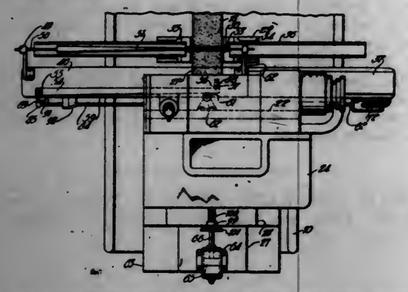
2. In combination, an aircraft having an air foil, an internal combustion motor and means for receiving, conveying away and discharging the motor exhaust, which means includes a conduit connected with and leading from the motor exhaust manifold and an outlet duct at the opposite end of the conduit opening through a surface of the air foil, said outlet duct having a discharge slot of increasing size from the region adjacent its point of communication with the conduit to the region remote therefrom.

1,919,143. GRINDING MACHINE. GEORGE W. BINNS, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 2, 1930. Serial No. 479,237. 18 Claims. (Cl. 51—103.)



1. In a device of the class described the combination with a bed, of a pair of opposed grinding and regulating wheels carried thereby and forming a grinding throat therebetween, a work rest blade within the throat for supporting work in engagement with the wheels, a fixed stop member adjacent the work rest for positioning a work piece on the work rest relative to the wheels, the said fixed stop member having an axial opening therethrough, a pneumatic pressure source, and means connecting the pneumatic pressure source with the stop member whereby the said pneumatic pressure source is directed against the end of the work contacting the fixed stop for ejecting same from the work rest blade.

1,919,144. GRINDING MACHINE. CLEMENT BOOTH, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 18, 1931. Serial No. 575,868. 16 Claims. (Cl. 51—103.)

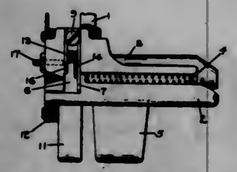


1. In a grinding machine for generating and grinding long, cylindrical, contoured articles the combination of a bed, a pair of opposed grinding and regulating wheels carried by the bed and forming a grinding throat therebetween, the grinding wheel effecting a stock removal from the work while the regulating wheel effects and controls the rotation thereof, a work rest blade subtending the grinding throat, and means for actuating the work axially of the throat and simultaneously shifting one of the wheels relative to the other for generating the contour on the work.

1,919,145. DENATURED ALCOHOL COMPOSITION. ROBERT CALVERT, Wilmette, Ill., assignor to Van Schaack Bros. Chemical Works, Inc., Chicago, Ill., a Corporation of Illinois. Filed Dec. 23, 1929. Serial No. 416,220. 6 Claims. (Cl. 202—77.)

1. A denatured alcohol composition comprising hydrous ethyl alcohol and tertiary butanol.

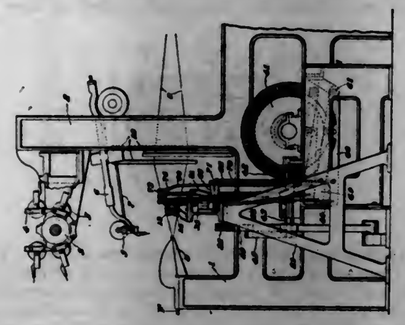
1,919,146. TEMPLE THREAD CUTTER FOR LOOMS. FREDERIC E. DOUGLAS, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 9, 1933. Serial No. 655,961. 3 Claims. (Cl. 139—303.)



2. As an article of manufacture, a cutter blade for thread cutting temples, said blade being comprised of a rigid metallic body portion having at its forward end a depending operating portion and at its rearward end a rearwardly extending backing finger positioned substantially in the same vertical plane as said body portion, and a resilient, steel cutting tip having its forward end secured to and in contact with said body portion and having its rearward, cutting end spaced slightly away from the rearward end of said backing finger.

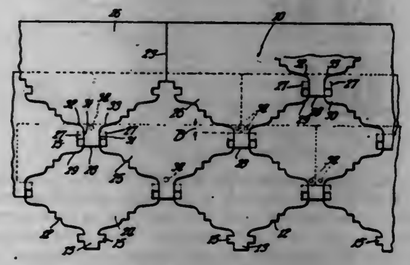
1,919,147. NEEDLE LOOM. FRANK V. GRENNOR, Chicopee, Mass., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a Corporation of Massachusetts. Filed May 10, 1932. Serial No. 610,341. 17 Claims. (Cl. 139—124.)

1. In a loom, in combination, shed forming mechanism, a series of weft inserting needles, and mechanism for selectively inserting any one or more of the series of needles in the shed, comprising a needle operating slide, means for moving the slide towards and from the cloth selvage independently of the needles, separate means including pivoted latches for connecting each one of the



series of needles to said slide, and mechanism operable from a going part of the loom to control the pivotal movement of the latches for operatively connecting any one or more of the series of needles to said slide.

1,919,148. ROOFING. HARRY L. GUY, Chicago, Ill., assignor of one-half to Homer J. Luce, Chicago, Ill. Filed June 19, 1931. Serial No. 545,391. 6 Claims. (Cl. 108—7.)



1. In a roof covering the combination comprising a plurality of overlapping courses of shingle units, each unit comprising a plurality of shingle tabs having an outline which is repeated in reversed arrangement between the tabs, whereby the space between tabs is identical in outline and size to that of a shingle tab to permit the manufacture of the shingle units without waste, said outline embodying laterally projecting wings adjacent to but spaced back from the tip of the tab and being repeated at the base of the space between adjacent tabs in a narrower space corresponding to the narrower tip of the tab and an adjacent wider space corresponding to the projecting wings, said courses of shingle units being interlocked with the wings on the tabs of one course underlying the portions of the shingles of the next underlying course adjacent said narrower space, and fastening nails driven through the underlying course adjacent said bases before the overlying units are interlocked.

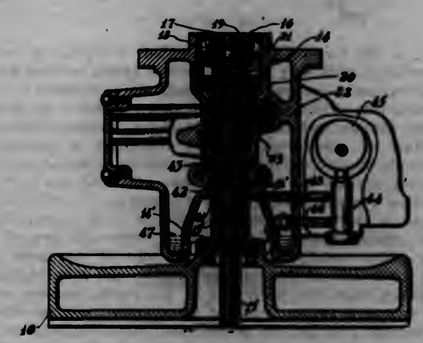
1,919,149. DISCHARGE CONTROL MEANS FOR STORED PRESSURE MEDIUM CONTAINERS. DANIEL MAPES, Upper Montclair, N. J., assignor to Walter Kidde & Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 9, 1932. Serial No. 604,834. 11 Claims. (Cl. 169—31.)

2. The combination with a vessel for containing a medium under pressure having means to effect release of the medium therefrom, of means to control the rate of discharge of the medium from the vessel independently of



the extent of opening of the vessel by the means to effect release of the medium comprising a controlling element having a preformed fixed flow control characteristic.

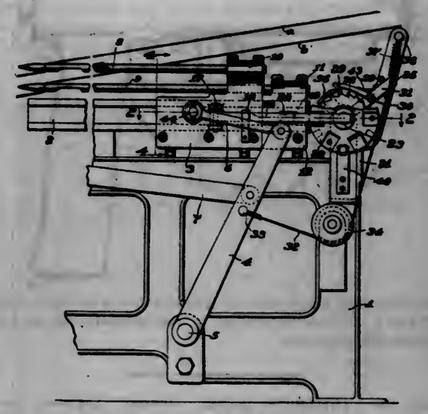
1,919,150. MILLING MACHINE. LESTER F. NENNINGER, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 14, 1930. Serial No. 467,695. 9 Claims. (Cl. 90—11.)



8. A milling machine comprising a pedestal, the bottom face of which is adapted to rest on a floor, a column uprising from the pedestal having vertical guideways thereon, a work support mounted on said guideways, an elevating screw housing vertically projecting from the pedestal and having a nut formed in the upper end thereof, an elevating screw having a reduced shank on one end forming a shoulder threaded in the nut, said screw being of sufficient length to reach the floor when the shoulder is flush with the upper end of the nut, a driver for the screw fixed on said shank, means on the driver in circumscribing relation to the nut for supporting the work support on the lead screw and with the top face of the work support lying substantially in the plane of the upper end of said driver, and means for actuating the driver whereby the work support may be elevated a distance substantially equal to the height of its top surface above the floor when the work support is in its lowermost position.

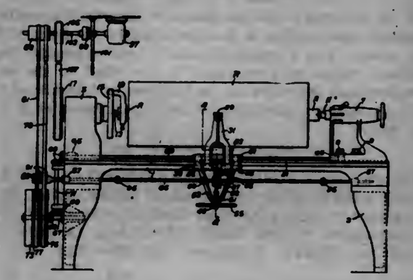
1,919,151. NEEDLE SELECTOR MECHANISM FOR MULTIPLE NEEDLE LOOMS. PAUL J. ST. JEAN, Thompsonville, Conn., and FRANK V. GRENNOR, Chicopee, Mass., assignors to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a Corporation of Massachusetts. Filed Sept. 27, 1932. Serial No. 635,014. 14 Claims. (Cl. 139—122.)

1. In a loom, the combination of weft inserting needles, for introducing weft threads into the shed, an actuator for the needles, a latch for operatively connecting a needle to the actuator, and a rotatable member having latch en-



gaging blocks mounted thereon for determining when the latch shall connect or fail to connect a needle to the actuator.

1,919,152. BURNISHING MACHINE. RICHARD A. WILKINS, Beverly, Mass., assignor to Industrial Development Corporation, Boston, Mass., a Corporation of Maine. Filed Dec. 31, 1929. Serial No. 417,700. 7 Claims. (Cl. 29—90.)



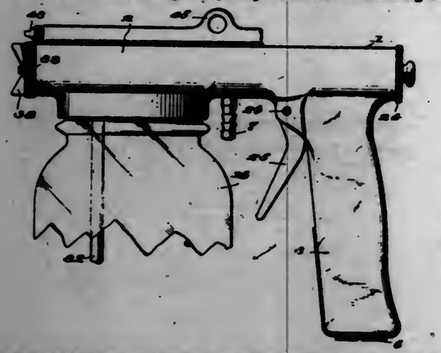
1. A burnishing machine having, in combination, means for rotatably supporting a member to be burnished, burnishing tools disposed at opposite sides of said member, a lever for carrying each tool, toggle-links connecting said levers and a force exerting means acting on said toggle-links for pressing said tools against said member.

1,919,153. SPRAYING DEVICE. WILLIAM H. ANDREWS, Cleveland, Ohio, assignor to Irene E. Andrews. Filed July 26, 1929. Serial No. 381,217. 6 Claims. (Cl. 91—45.)

1. In combination in a sprayer having a main body member, a commingler pipe having a pressure connection at one end and a suction connection intermediate the ends thereof; of an atomizer at the opposite end and communicating with a primary atomizer air passageway contained

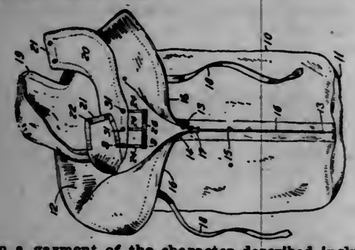
CARNEGIE LIBRARY OF ATLANTA

within the body member and said commingler pipe, said primary atomizing air passageway and said commingler



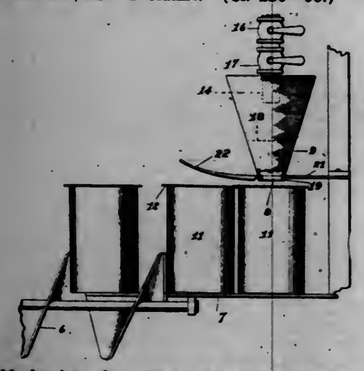
pipe extending longitudinally and parallel with each other and being intercommunicating at the pressure end of said commingler pipe only.

1,919,154. INFANT'S ROBE. JOSEPH ASTROVE, New York, N. Y., assignor to Tidy Products Corporation, New York, N. Y. Filed Feb. 25, 1933. Serial No. 658,601. 5 Claims. (Cl. 2—69.)



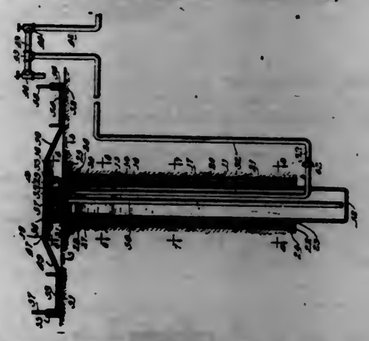
1. In a garment of the character described including a sleeping robe having a portion adapted to form a bottom closure and a separable hood therefor adapted to be retained within said robe and be enveloped by the same, complemental fastening means between said hood and robe having slidable adjustable connection between said hood and robe.

1,919,155. CAN POSITIONING MECHANISM FOR LIQUID DISPENSING. CHARLES H. AYARS, Salem, N. J., assignor to Ayars Machine Company, Salem, N. J., a Corporation of New Jersey. Filed Aug. 12, 1929. Serial No. 385,243. 4 Claims. (Cl. 226—95.)



1. Mechanism for depositing uniform quantities of liquid in cans which have an upper annular flange, said mechanism comprising a stationary hopper adapted for constant flow of liquid, means for automatically and intermittently feeding cans under said hopper, said means adapted to force the cans into contact to overlap the segments of the flanges which pass under said liquid stream to prevent the liquid from spilling during the positioning and removal of the cans under the hopper.

1,919,156. AUTO LIFT AND THE LIKE. THOMAS A. BANNING, Jr., Wilmette, Ill. Filed May 13, 1930. Serial No. 452,041. 19 Claims. (Cl. 254—93.)



1. A lift for the purpose specified, including in combination a stationary vertical tubular piston member having its lower end sealed in liquid tight fashion, a cap closing the upper end of said piston member in liquid tight fashion and having a cylindrical external bearing surface of substantial vertical dimension, a vertically movable tubular cylinder member slidably mounted on and sealing against the bearing surface aforesaid and having bearing contact therewith for a substantial vertical distance, a stationary cylindrical ground shell surrounding the cylinder member and having its lower end secured to the piston member at the lower limit of movement of the lower end of the cylinder member and a substantial distance above the lower end of the piston member, and serving as a bottom rest for the cylinder member when in lowered position, the ground shell and the piston member below the line of junction of the ground shell therewith being imbedded in concrete, a circular ground plate secured to the upper end of the ground shell and having an inwardly reaching circular bearing surface having clearance from the external surface of the cylinder member and serving to limit lateral deflection thereof under load and when elevated, an outwardly reaching stop ring on the exterior of the cylinder member in position to engage the inwardly reaching circular bearing surface aforesaid to arrest upward movement of the cylinder member before the same overrides the cylindrical exterior bearing surface of the cap aforesaid, a sealing member on the upper end of the cap having sealing contact with the inner surface of the cylinder member during vertical movement thereof, a platform mounted on and secured to the upper end of the cylinder member in liquid tight fashion, a cover thereon removable to give access to the sealing member aforesaid, and air pipe extending through the lower portion of the piston member and reaching upwardly therein to a position close to the cap aforesaid, a liquid pipe within the piston member reaching from a position close to the bottom thereof and up through the cap in liquid tight fashion into the space within the cylinder member to transfer liquid between the interior portions of the piston member and the cylinder member under air control, air pressure delivery and discharge lines in connection with the air pipe aforesaid, valves in said lines, and suitable liquid within the piston and cylinder members, the space within the piston member being at least equal to the volume of the cylinder member displaced during the maximum vertical movement of the cylinder member substantially as described.

1,919,157. PROCESS OF MANUFACTURED COKE. VIRGIL LEE BOARD, Denver, Colo., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed July 19, 1928. Serial No. 294,059. 5 Claims. (Cl. 202—33.)

5. The process of manufacturing metallurgical coke, which comprises coking a body of friable cokable petroleum coke produced by cracking an asphaltic petroleum oil, said coking comprising the heating of a stationary body of said petroleum coke in a loose state in the substantial absence of air until the petrolenm coke is converted into a coherent metallurgical coke having between 2 and 5% organic volatile matter.

1,919,158. ADHESIVE AND PROCESS OF MAKING SAME. LAWRENCE BRADSHAW, Bainbridge, N. Y., assignor to The Casein Manufacturing Company of America, Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 2, 1930. Serial No. 418,164. 4 Claims. (Cl. 87—17.)

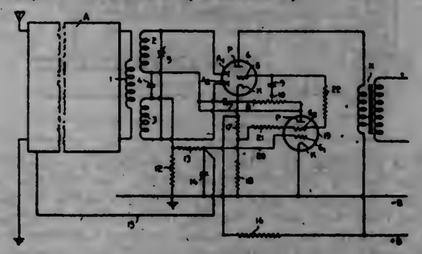
4. A process of making liquid glue of sufficient body for use in making plywood from veneers, which comprises adding a glue base to water, the glue base containing peanut meal as its major constituent together with slaked lime, alkaline sodium salts and sodium fluoride, and after some mixing, adding caustic soda, the caustic soda being in amount equal to about 3 to 8% of the amount of peanut meal, and the amount of water being about 3.5 to 3.9 times the amount of the dry glue base.

1,919,159. CIGAR AND CIGARETTE LIGHTER. FRANCIS C. COPELAND, San Francisco, Calif., assignor, by mesne assignments, to Joseph H. Cohen, Bridgeport, Conn. Filed Aug. 27, 1927. Serial No. 215,819. 27 Claims. (Cl. 219—32.)



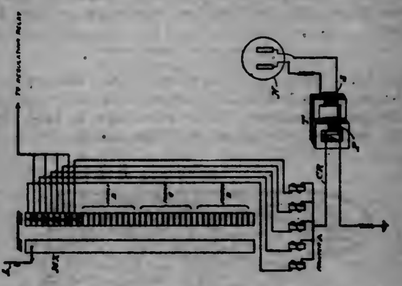
6. An electric cigar-lighter comprising a holding device for removably supporting an electrical igniting unit which is adapted to make closed circuit engagement therewith when supported on the holding device; and a switch device mounted on the holding device comprising two cooperating contacts, one of which is movable by hand operation through the medium of the igniting unit when supported on the holding device toward the other to close an electric cirult leading from a source of current to the holding device.

1,919,160. RADIO RECEIVING SYSTEM. PAUL O. FARNHAM, Boonton, N. J., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J., a Corporation of New Jersey. Filed Nov. 4, 1932. Serial No. 641,278. 20 Claims. (Cl. 250—20.)



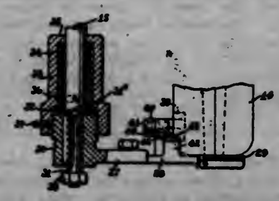
1. In a radio receiver, the combination of a multiple function tube having therein the elements of an amplifier and two rectifiers, input circuit elements for impressing radio frequency voltages upon both rectifiers, an audio frequency output circuit for one rectifier, means coupling the input circuit of the amplifier to said audio frequency output circuit, a direct current output circuit for the second rectifier, and means energized by the rectified voltage developed in said direct current output circuit for controlling the operation of said first rectifier.

1,919,161. PILOT LAMP ARRANGEMENT FOR MULTIPLEX TELEGRAPH PRINTERS. LAURENCE W. FRANKLIN, Delawanna, and FRANK J. MAUS, Paterson, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Jan. 8, 1932. Serial No. 585,580. 3 Claims. (Cl. 178—69.)



3. In a telegraph system, a printer having selective magnets responsive to signal impulses, a common return circuit for said magnets, a transformer having a primary coil in said return circuit, and a glow discharge lamp in circuit with the secondary coil of said transformer.

1,919,162. MACHINE FOR FORMING HOLLOW GLASSWARE. EDWARD L. HUGHES, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a Corporation of Ohio. Filed Mar. 21, 1932. Serial No. 600,185. 12 Claims. (Cl. 49—5.)



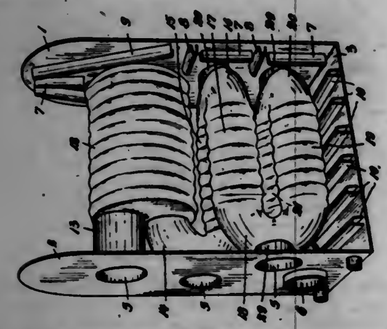
11. In combination, a blank mold having a downwardly facing charging opening, charge severing mechanism including a vertical rock shaft arranged alongside the mold, a rock arm mounted for limited vertical movement on the lower end of said shaft and fixed against rotation thereon, a knife supported on the rock arm for movement across the bottom of the mold, means for oscillating the shaft to thereby periodically move said knife, a coil spring encircling the rock shaft above the rock arm, a collar fixed to the shaft and supporting the spring, a casing enclosing the spring and collar, means adjustably connecting the casing and rock arm whereby the tension of the spring may be varied, said spring yieldingly supporting the knife in its uppermost position relative to the shaft, means operable prior to movement of the knife beneath the mold to lower the knife and holder on the shaft in opposition to the spring including an arm extending laterally from the mold in proximity to the charging opening, and a pilot movable with the knife and including an inclined surface adapted for engagement with said arm to lower the knife.

1,919,163. RESINOUS COMPOSITION AND METHOD OF PREPARING THE SAME. EDWARD H. JACKSON and HUGH J. CAMERON, Fort Wayne, Ind., assignors to General Electric Company, a Corporation of New York. Filed Jan. 26, 1931. Serial No. 511,440. 8 Claims. (Cl. 260—4.)

2. A stable liquid resinous composition adapted to be converted by heat to the hard, infusible, insoluble state which composition is the product of reaction of a phenol and an aldehyde in the presence of a catalyst which imparts to the reaction mixture and maintains in the mass at normal temperature a pH value within the approximate range 6.5 to 8.5.

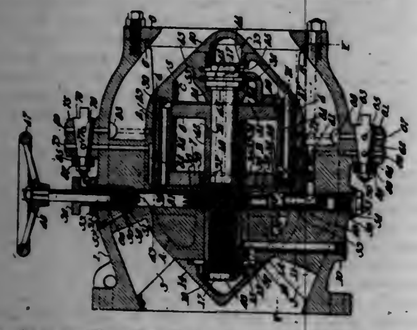
8. The process of preparing a stable liquid resinous composition adapted to be converted by heat to the hard, infusible, insoluble state, which comprises reacting a phenol and an aldehyde in the presence of a catalyst which imparts to the reaction mixture and maintains in the mass a pH value within the approximate range 6.5 to 8.5.

1,919,164. BOILER CONSTRUCTION. HORACE M. JEROME, Ann Arbor, Mich., assignor to U. S. Pressed Steel Company, Ypsilanti, Mich. Filed Apr. 5, 1930. Serial No. 441,888. 8 Claims. (Cl. 122—135.)



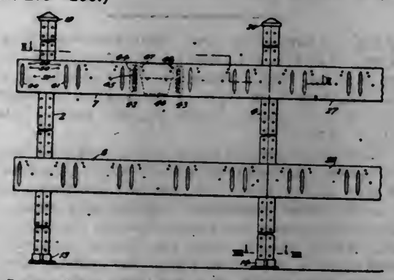
1. A boiler comprising the combination of a water casing provided with an upper inlet and a lower outlet, an elongated sinuous flue passage extending from said inlet to said outlet, said passage being fashioned with straight interjacent sections and curved sections connected end to end with said straight sections and water tubes in said straight sections and opening through and welded to the curved sections.

1,919,165. VALVE. PHILLIP A. KINZIE, Denver, Colo., assignor to Universal Hydraulic Corporation, Denver, Colo., a Corporation of Colorado. Filed Aug. 22, 1931. Serial No. 558,794. 26 Claims. (Cl. 137—139.)



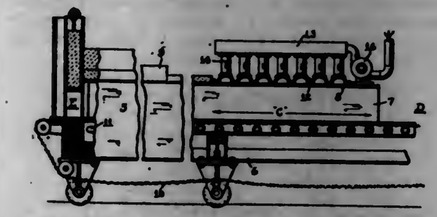
1. In a needle valve, the combination with a casing, a needle, pressure chambers, supply and exhaust passages for pressure fluid, and a distributing valve for controlling communication between said chambers and said passages, of operating means for said distributing valve, and valve means actuated by said operating means for closing said exhaust passage when said needle is in closed position, said valve means including a valve seat on said casing.

1,919,166. RELAY RACK. FREDERICK C. LAVARACK, Montclair, N. J., assignor to Railroad Accessories Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 9, 1931. Serial No. 507,557. 6 Claims. (Cl. 175—298.)



1. In a relay rack, in combination: four corner posts, arranged as at the corners of a rectangle; a relay panel, formed with a plurality of spaced orifices in a plurality of pairs, each pair adapted for the reception of means for supporting a relay, and also formed with elongated orifices, one on each side of each relay, and with an orifice at each end of each of the elongated orifices; a wiring template adapted to be secured by means passing through the orifices at each end of the elongated orifices; a terminal block panel, said terminal block panel formed with a plurality of orifices in pairs for receiving fastening means for attaching terminal blocks thereto, and with orifices adapted to receive wires for attachment to each terminal block; means for attaching the relay panel to two of the corner posts and means for attaching the terminal block panel to the other corner posts; means securing together and spacing apart the posts supporting the relay panel with those supporting the terminal block panel; a wire supporting rack formed with two side members, one resting upon a relay panel, the other resting upon a terminal block panel, and a plurality of rods extending between the sides and attached thereto, each rod being covered with a non-conducting material in tube form.

1,919,167. LEER FOR ANNEALING GLASSWARE. GARLAND LUFKIN, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a Corporation of Ohio. Filed Aug. 26, 1930. Serial No. 477,869. 8 Claims. (Cl. 49—47.)



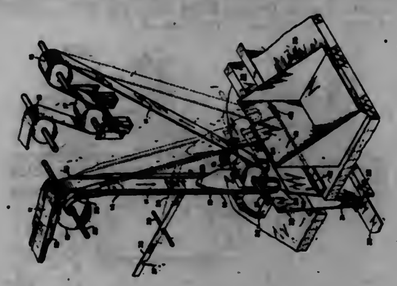
1. A glassware annealing leer comprising an elongated tunnel having an uninsulated metallic wall, means including portions of said wall providing a series of open ended flues, said flues extending transversely of the tunnel, means for drawing a cooling medium into said flues through the open ends thereof to control the temperature in the tunnel, and adjustable means for varying the effectiveness of the flues.

1,919,168. COMPOSITE FRICTION MATERIAL AND METHOD FOR MAKING THE SAME. GEORGE W. PERKS, Akron, Ohio, assignor of one-half to Evalena L. Austin, Akron, Ohio. Filed Feb. 24, 1932. Serial No. 594,826. 9 Claims. (Cl. 188—251.)



1. A composite structure including a metal sheeet formed with webs providing a grid on a side therof, and a layer of frictional fibrous material together with a metallic binder compressed onto said side of said sheet and heat treated to bond the structure by the fusion of metal.

1,919,169. DRAG CONVEYER DISCHARGE. ALEXANDER PLAUSICS, Bronx, New York, assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed June 5, 1931. Serial No. 542,410. 4 Claims. (Cl. 198—115.)



1. In a conveyer system for conveying sheet material, the combination of a drag conveyer embodying a conveyer channel and a belt traveling upon said channel for conveying sheet material between the belt and the channel by frictional engagement with the belt, said conveyer embodying a transporting section and a downwardly extending discharge section communicating with each other, said discharge section being pivotally mounted at its upper end and provided with a discharge terminal, a roller adjacent the discharge terminal around which said conveyer belt passes, a guide member associated with said belt in advance of said roller and having downwardly extending portions spaced apart to extend on each side of the roller, said trough and guide member extending beyond the roller in the direction of travel of the conveyer belt and serving to guide the sheet material out of said conveyer, a plurality of receivers to receive material discharged from the conveyer terminal, guide members associated with said receivers to direct the discharged material into the receiver, and means to selectively position the terminal to discharge material into any one of said receivers.

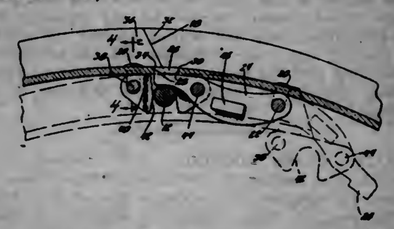
1,919,170. INDUSTRIAL TRUCK. EDWARD H. REMDE, Cleveland, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 9, 1925. Serial No. 42,559. 12 Claims. (Cl. 280—91.)

8. In an industrial truck, a frame comprising a main portion at one end and a load supporting portion at the other end disposed adjacent the ground, a platform supporting said load supporting portion, a pair of power driven wheels beneath said main frame portion, a subframe member comprising a longitudinally extending section and laterally extending sections intermediate the ends of said longitudinal section, means for pivotally supporting the laterally extending sections on a transverse axis



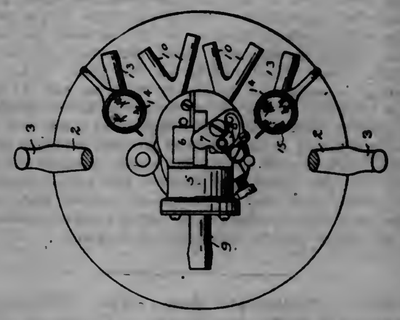
on said load supporting frame portion, axles pivotally mounted intermediate their ends on the opposite free ends of said longitudinally extending section, load wheels mounted on the opposite ends of each said axle, and means for simultaneously swinging said axles about their pivotal mountings on said longitudinally extending section.

1,919,171. COLLAPSIBLE RIM. KARL SCHMIDT, Detroit, Mich., assignor, by mesne assignments, to Kelsey-Hayes Wheel Corporation, a Corporation of New York. Filed Dec. 5, 1928. Serial No. 323,899. 7 Claims. (Cl. 301—33.)



1. In a transversely split rim having registering recesses in adjacent ends thereof, a securing member hinged to the rim adjacent the split, a projection on said member adapted to project into the recesses aforesaid in said rim, and a second securing member hinged to the rim and to said first securing member.

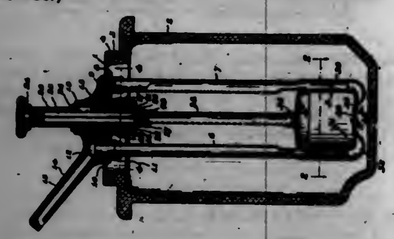
1,919,172. MILKING APPARATUS. JOHN A. SCHMITT, Waukesha, Wis., assignor to The Universal Milking Machine Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Aug. 24, 1927. Serial No. 215,243. 7 Claims. (Cl. 31—58.)



5. The combination with a cover for a milk receiving vessel, of a milk conduit discharging through the cover into the receiving vessel; a valve seat; a revoluble tacontrolling the conduit, said valve having a passage therepered plug valve removably mounted in said seat and controlling the conduit, said valve having a passage there-

through moved into and out of communication with the conduit by the rotation of the valve, and a transparent window for said passage detachably mounted upon and removable with the rotary valve plug through which the passage of milk may be observed.

1,919,173. DISPENSING PUMP. THEODORE H. SCHUTT, Cleveland, Ohio, assignor to The Russ Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 21, 1930. Serial No. 469,335. 5 Claims. (Cl. 225—35.)



1. A liquid dispensing pump comprising a tubular piston housing, a piston reciprocable therein, a supporting plate, means guided in said plate for reciprocating said piston, a pair of rod members carried by and depending from said supporting plate and seating against the sides of said housing, and a pair of stamped metal socket members surrounding said rod members and being secured to said housing, whereby to clamp said rod members to said housing.

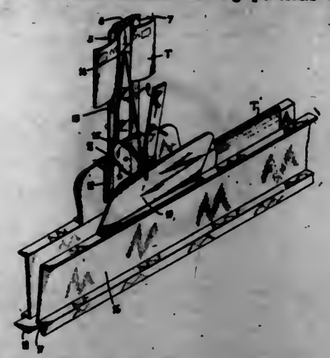
1,919,174. GLASS ROOFING. ARNO SHUMAN, Philadelphia, Pa., assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Jan. 27, 1930. Serial No. 423,639. 3 Claims. (Cl. 108—10.)



1. In a glass roofing or wall the combination of batten strips overlapped at their end portions, the upper strips being offset in respect to the end portions of the batten strips which underlie them to provide between the batten strips closed pockets and tangs extending beyond the pockets, inner strips underlying the glass, means for securing the tangs and the underlying strips and the inner strips together, means for securing the batten strips to the purlins, and glass sheets lapped at their end portions and having one of their end portions arranged in one of said pockets and having the other of their end portions arranged under said pockets, the lateral edges of said sheets being disposed in spaced relation under said strips, said closed pockets constituting means for preventing downward endwise movement of the glass.

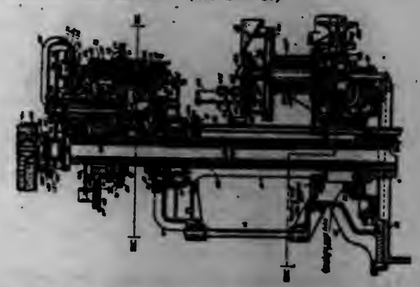
1,919,175. TERMINAL FOR DRAG CONVEYERS. MAURICE B. SMITH, East Orange, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Mar. 14, 1930. Serial No. 435,868. 13 Claims. (Cl. 198—160.)

1. A drag conveyer comprising a stationary support having a base and outwardly extending sides, a belt positioned to travel in contact with said support, whereby sheet material may be conveyed intermediate said support and belt, means for deflecting said belt away from said support and a guide member having portions extending



substantially parallel to the sides of said support, and forming with said sides a guideway for directing said material past the point of deflection of said belt.

1,919,176. GLASSWARE FORMING MACHINE. LEONARD D. SOUBIER and JESSE H. TREDCR, Toledo, Ohio, assignors to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 23, 1929. Serial No. 416,130. 18 Claims. (Cl. 49—5.)

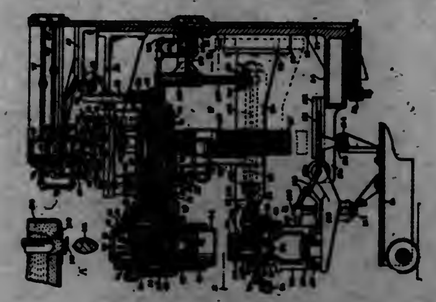


1. In a glassware forming machine, an annular series of finishing molds rotatable about a vertical axis, means to impart continuous rotary movement to the molds, blank forming units individual to the finishing molds and rotatable therewith, means arranged above said units to deliver measured quantities of glass to the latter, said last mentioned means including a suction gathering cup and mechanism for rotating it bodily as a unit about a fixed vertical axis disposed between the molds and the said axis of rotation thereof, and thereby alternately placing the cup in charge gathering and charge transferring positions, means operating to intermittently impart rotary movement to the cup, and means to cause delivery of measured quantities of glass to the cup.

1,919,177. MACHINE FOR FORMING HOLLOW GLASSWARE. LEONARD D. SOUBIER, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a Corporation of Ohio. Filed July 22, 1930. Serial No. 469,787. 18 Claims. (Cl. 49—5.)

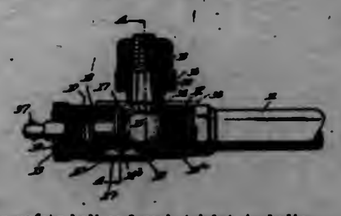
1. In a glassware forming machine, means for forming blanks comprising a body blank mold, a partible neck mold below the body blank mold, means for oscillating the body blank mold between a position in which said mold opens upwardly to receive a mold charge and another position in which it opens downwardly in register with and forms an extension of the neck mold cavity, means for applying vacuum to the blank mold cavity while said mold opens upwardly and during downward swinging

movement thereof, means for applying vacuum to the neck mold while in register with the body blank mold to thereby form a neck on the blank and attach said blank to the neck mold, means for moving the body blank mold upwardly leaving the blank extending upwardly from and



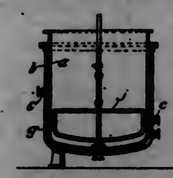
attached to the neck mold, means whereby upward swinging movement of the blank mold causes downward swinging of the neck mold, and a finishing mold adapted to enclose the blank after the neck mold has completed its downward swinging movement.

1,919,178. BALL AND SOCKET JOINT. WILLIAM TODD, Leominster, Mass. Filed May 27, 1932. Serial No. 614,010. 6 Claims. (Cl. 287—90.)



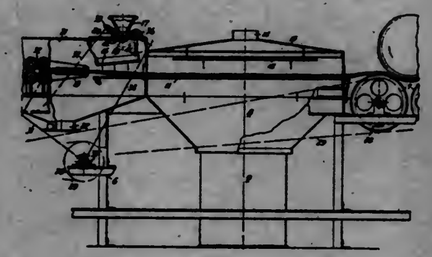
5. In a safety ball and socket joint, including a tubular socket member having a side opening therein through which the ball may be inserted in and removed from said socket, a closure plate for the opening curved to conform to and lie against the outer surface of said socket, said closure being hingedly mounted on said socket for opening and closing said opening therein, and means detachably locking said closure to the socket.

1,919,179. APPARATUS FOR REMOVING WATER FILM FROM HEAT TRANSMITTING WALLS. HANS WILTSCH, Berlin-Charlottenburg, Germany. Filed Nov. 27, 1931, Serial No. 577,728, and in Germany Dec. 16, 1930. 1 Claim. (Cl. 257—108.)



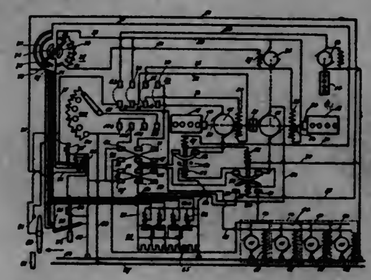
Apparatus for removing water film from heat transmitting walls of dryers, boilers, superheaters, vats and the like in which heating medium is introduced into a jacket by means of nozzles, comprising in combination with the heating jacket, nozzles extending into said jacket, flanges constructed as direction indicators, on said nozzles outside said jackets, flanges connecting said nozzles to the outer wall of said jacket through the intermediary of said indicator flanges, adapted to be unscrewed to allow of adjustment of said nozzles by means of said indicator flanges and guide bars on the inner wall in said jacket having inwardly bevelled edges adapted to cause a rapid drop formation on its inclined edges and continually remove the condensed water film caused by the steam supplied through said nozzles.

1,919,180. ARTICLE, METHOD, AND MACHINE FOR MANUFACTURE. SELMA K. ZAHN, Albany, Calif., assignor, by mesne assignments, to Bank of America, a Corporation of California. Filed Dec. 5, 1931, Serial No. 579,183. Renewed June 12, 1933. 15 Claims. (Cl. 51—278.)



1. The method of forming an abrasive and polishing pad and the like comprising ridding a pad of fibrous material of moisture, discharging abrasive onto said pad, loosening said pad to incorporate said abrasive thoroughly throughout said pad and beating said abrasive throughout said loosened pad of material, and thereafter compressing said loosened pad into original form.

1,919,181. VEHICLE PROPULSION AND CONTROL SYSTEM. HENRY H. CUTLER, Coral Gables, Fla.; J. RALPH TATUM, executor of said Henry H. Cutler, Deceased. Filed July 18, 1932. Serial No. 623,107. 10 Claims. (Cl. 191—4.)

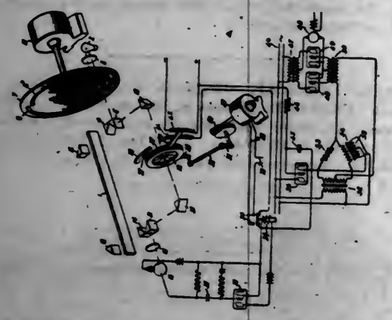


1. A vehicle propulsion and control system comprising in combination, a prime mover, an electric generator driven thereby, a propelling motor energized by said generator, third-rail and track connections, means for electrically connecting said generator to said third-rail and track connections, a second generator connected to energize said propelling motor, and means for mechanically coupling said generators together when the first-mentioned generator is connected to said third-rail and track connections and is operating as a motor.

1,919,182. PHOTO-ELECTRIC SYSTEM. ALAN S. FITZ GERALD, Wynnewood, Pa., assignor to General Electric Company, a Corporation of New York. Filed June 4, 1931. Serial No. 542,185. 2 Claims. (Cl. 250—41.5.)

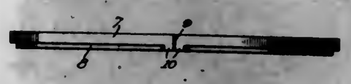
1. Apparatus responsive to the light characteristics of a material comprising a photo-electric device, means for

directing into said device alternately a plurality of light beams, one of said beams being arranged to be controlled by said material, movable means for controlling another of said beams in accordance with its position, means con-



trolled by said device for varying the position of said movable means, a motor and means for varying the speed thereof in accordance with the position of the movable means.

1,919,183. PISTON RING. ROY W. PATON, Hagerstown, Ind., assignor to The Perfect Circle Company, Hagerstown, Ind., a Corporation of Indiana. Filed May 1, 1933. Serial No. 668,847. 6 Claims. (Cl. 309—45.)



1. A compression ring for internal combustion engines having a piston provided with a groove, consisting of a ring split at one point to form a joint and adapted to be mounted in the groove of the piston, the ring having in its outer lower corner a channel and dam portions which terminate the channel adjacent the ends of the ring, the channel being of such uniform height and depth that the oil is substantially equally distributed about the channel to effect a substantially uniform seal with said ring groove and cylinder wall throughout the entire length of the channel, the cylinder contacting face of the ring being reduced by the channel to the extent of the height of the latter.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office

Vol. 432—No. 4 TUESDAY, JULY 25, 1933 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.25; single numbers, 35 cents each.
PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.
CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
ISSUE OF JULY 25, 1933	751
ADJUDICATED PATENTS	751
ADVERSE DECISIONS IN INTERFERENCE	751
COMMITTEE APPOINTED	751
NOTICE OF CANCELLATION	751
APPLICATIONS UNDER EXAMINATION	752
DECISIONS OF THE U. S. COURTS—	
In re Brandt	753
Nystrom and Landwehr v. Mancuso	753
In re Bayer	756
In re Covey	756
Otto v. Robertson, Commissioner of Patents	757
PATENT SUITS	759
DISCLAIMERS	760
TRADE-MARKS PUBLISHED (305 APPLICATIONS)	761
TRADE-MARK REGISTRATIONS GRANTED	793
TRADE-MARK REGISTRATIONS RENEWED	793
LABELS	795
PRINTS	795
REISSUES	797
PLANT PATENTS	798
DESIGNS	798
PATENTS GRANTED	807

July 25, 1933

Trade-Marks	155	No. 304,921 to No.	305,075,	inclusive.
T. M. Renewals	89			
Labels	17	No. 42,432 to No.	42,448,	inclusive.
Prints	7	No. 14,274 to No.	14,280,	inclusive.
Reissues	4	No. 18,001 to No.	18,004,	inclusive.
Plant Patents	3	No. 71 to No.	73,	inclusive.
Designs	42	No. 90,253 to No.	90,294,	inclusive.
Patents	921	No. 1,919,184 to No.	1,920,164,	inclusive.
Total	1,268			

Adjudicated Patents

(D. C. N. Y.) North Patent, No. 1,710,504, for process for making mixtures of cocoa or chocolate and milk and product thereof, *Held* invalid. *Kelley* v. *Heyman Process Corporation*, 3 F. Supp. 362.

(D. C. N. Y.) North Patent, No. 1,710,507, for process for making mixture of cocoa or chocolate and milk and product thereof, *Held* invalid. *Id.*

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,835,895, E. R. Hentschel, Power supply apparatus, decided July 1, 1933, claims 6, 8, 9, 11, 12, 13, 14, and 15.

Pat. 1,840 913, F. L. Myers, Locomotive stoker, decided June 19, 1933, claim 9.

Pat. 1,875,610, D. C. Jeffrey and H. J. Marsham, Lath bundling apparatus, decided July 1, 1933, claims 1, 2, 6, 8, 9, and 10.

Committee Appointed

DEPARTMENT OF COMMERCE,
Washington, July 10, 1933.

Honorable CONWAY P. COE,
Commissioner of Patents, Washington, D. C.

My dear Mr. COMMISSIONER: I have called together a committee of representative lawyers from various sections of the country to study conditions in the Patent Office and the problems confronted by it.

The committee is composed of Mr. Loyd H. Sutton of Washington, Mr. John W. Townsend of Washington, Mr. John A. Dienner of Chicago, Mr. Augustus B. Stoughton of Philadelphia, Mr. George Ramsey of New York, Mr. Justin W. Macklin of Cleveland, Mr. James H. Lightfoot of the Patent Office; and Capt. R. S. Patton of the Department of Commerce. Mr. Sutton is chairman of the committee and his address is McLachlen Building, Washington, D. C.

I request you and members of your force to cooperate with the committee and to lend every assistance at your disposal.

Sincerely yours,
DANIEL C. ROPER.

Notice of Cancellation

U. S. PATENT OFFICE, *Washington, July 10, 1933.*

Louis M. Myers, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of the Hanson Scale Company, 523–531 North Ada Street, Chicago, Illinois, to effect the cancellation of the trade-mark registration of Louis M. Myers, Consumers Building, Chicago, Illinois, No. 119,556, dated November 27, 1917, and the notice of such proceeding sent by registered mail to the said Myers at the said address having been returned by the post-office as undeliverable, notice is hereby given that unless said Myers, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business July 8, 1933

(Total number of applications awaiting action, excluding Trade-Mark Division, 50,237; Trade-Mark Division, 1,005. Oldest new case, Mar. 8, 1933; oldest amended, Mar. 8, 1933.

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Mar. 8	Mar. 8	653
6708	2. HERRMANN, D. (Act.), Fishing and Trapping; Dairy; Animal Husbandry; Presses, Tobacco; Velocipedes; Butchering.	Mar. 14	Mar. 14	861
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Apr. 15	Apr. 17	606
7083	4. DONNELLY, A. E. (Act.), Conveyers; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds.	Mar. 16	Mar. 9	603
3628	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Etc.	Apr. 10	Apr. 12	473
4896C	6. LEWERS, A. M., Carbon Chemistry	Mar. 22	Mar. 20	1,101
5725	7. JARBOE, C. G., Optics; Photography	Mar. 23	Mar. 21	1,042
7514	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Backs and Cabinets	Apr. 26	Apr. 26	525
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Apr. 12	Apr. 12	611
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Apr. 10	Apr. 10	527
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Malling and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Mar. 9	Mar. 10	709
7701	12. HENRY, C. C., Machine Elements; Cylinders and Pistons; Mechanical Starters; Stop Mechanisms	Mar. 27	Mar. 27	630
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Apr. 5	Apr. 5	677
5097	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	Apr. 15	Apr. 14	487
4897	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Mar. 24	Mar. 24	1,201
5612	16. SPENCER, C. J., Telegraphy; Telephony	Apr. 8	Apr. 8	580
5701	17. ARMSTRONG H. (Act.), Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Mar. 8	Mar. 9	1,074
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	May 11	May 13	284
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Mar. 10	Mar. 10	1,033
6613	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	May 17	May 18	233
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Mar. 9	Mar. 9	861
5724	22. RINGLE, D. (Act.), Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion; Boating, Implements.	Mar. 13	Mar. 13	1,038
7892	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Mar. 14	Mar. 9	595
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	May 2	May 2	480
5709	25. BLAKELY, C. F., Agitating; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Communitors.	Mar. 8	Mar. 8	1,111
5893	26. ADAMS, W. M., Electricity, Generation; Motive Power	Apr. 18	Apr. 25	467
5708	27. CLARK, W. N. (Act.), Brushing; Scrubbing, and Cleaning; Washing Apparatus	Apr. 8	Apr. 8	520
4628	28. BENSON, A. R., Internal-Combustion Engines	Mar. 8	Mar. 8	790
5082	29. SHKLARIN, J. B. (Act.), Woodworking; Tools; Compound Tools; Furniture; Metal Working	Apr. 12	Apr. 11	355
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	Mar. 22	Apr. 1	704
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Mar. 9	Mar. 10	1,239
4086	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Apr. 10	Apr. 10	515
6096	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roofs; Wooden Buildings.	Mar. 10	Mar. 11	1,216
6625	34. SAPERSTEIN, S. (Act.), Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders; Fluid Pressure Brakes.	Mar. 9	Mar. 8	1,007
3600	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Filling and Closing Portable Receptacles.	Mar. 9	Mar. 14	806
7624	36. McFAYDEN, A. D. (Act.), Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Mar. 8	Mar. 8	1,333
5889	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 8	Apr. 8	587
7510	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells; Hydraulic Cement and Lime; Roads and Pavements.	Mar. 8	Mar. 8	743
4874	39. WHITNEY, F. J. (Act.), Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Mar. 18	Mar. 18	831
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Mar. 22	Mar. 22	1,403
6082	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices; Typewriting Machines.	Mar. 18	Mar. 20	613
5882	42. CUTTING, H. O., Electric Signaling	Mar. 11	Mar. 11	932
4886B	43. KLINGE, E. F., Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Mar. 20	Mar. 20	988
4087B	44. SHAFFER, C. H., Refrigeration; Dispensing Beverages	Mar. 8	Mar. 9	809
7097	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	May 8	May 10	360
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems	Mar. 30	Mar. 31	584
7600	47. BARKER, H., Clutches; Brakes; Motors	Mar. 22	Mar. 21	1,039
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Mar. 15	Mar. 13	696
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers	Mar. 9	Mar. 8	888
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating Processes; Carbohydrates and Condensation Products.	Mar. 8	Mar. 8	978
5628	51. BACKUS, C. D., Radiant Energy	Apr. 8	Apr. 8	835
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Mains and Pipes.	Apr. 18	May 4	484
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	May 3	May 5	506
5874	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Mar. 11	Mar. 11	831
6887	55. BOWEN, S. T. {Bread, Pastry, and Confection Making; Cutlery	Apr. 14	Apr. 15	350
	{Designs	June 12	June 10	293
4725	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Mar. 15	Mar. 15	808
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Apr. 8	Apr. 15	415
5905	58. DOWELL, E. F., Abrading	Apr. 12	Apr. 18	376
4709	59. RICHARD, V. L., Chemistry; Fertilizers	Apr. 3	Apr. 3	655
5896	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Mar. 10	Mar. 9	995
6724	61. PARKS, G. E., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus	Mar. 15	Mar. 15	602
7525	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles; Cloth, Leather, and Rubber Receptacles.	Apr. 1	Apr. 1	1,263
4888	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Mar. 10	Mar. 10	1,125
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel; Alcohol.	Mar. 23	Mar. 23	1,095
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Mar. 8	Mar. 8	1,096
2099B	Trade-Marks, Labels, and Prints: F. A. RICHMOND.. {Trade-Marks	June 8	June 23	820
	{Labels and Prints	June 8	June 24	185

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

In re Brandt

No. 3,057. Decided April 24, 1933

1. Patentability—Analogous Arts.

"The appellant makes the contention that Clarke should not be used as a reference because the arts are not analogous. We are of the opinion that this position is not well taken. It would seem reasonable to suppose that one claiming as a patentable feature an adjustable chute or spout, would naturally look to the art of chutes or spouts to discover whether there were anything patentable in his device."

2. Same—Adjustability.

"Adjustability is usually not a patentable subject matter unless the adjustability is made in a new and improved way. Making parts adjustable is not invention, if the ordinary ingenuity of a skilled mechanic can accomplish it."

3. Same—Money Handling Machine Including an Adjustable Spout.

Claims for a money handling machine including an adjustable spout *Held* unpatentable over the prior art.

Appeal from the Patent Office. Affirmed.

Mr. Joseph H. Milans and *Mr. Calvin T. Milans* for Brandt.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

Graham, *P. J.:*

The appellant, Edward J. Brandt, filed his application in the United States Patent Office on May 24, 1924, for a patent on certain improvements in money handling machines. As a result of the proceedings in the Patent Office, the Examiner rejected claims 18, 19, and 22 to 28, inclusive, of said application. This decision was affirmed by the Board of Appeals, and the appellant has brought the case here. Claims 18 and 24 are thought to be typical of the rejected claims, and are as follows:

18. A money handling machine including a spout adapted to receive coins discharged from a coin tray, said spout being interchangeable to either end of the machine and adapted for horizontal adjustment while at either end.

24. The combination with a coin holding machine having several outlets for liberated coins, of a delivery spout, and lateral adjustable means for connecting said spout to the holder in operative association with any one of said delivery outlets whereby said spout may deliver from various points relative to the machine and be adjustable in any of its positions, the lateral adjusting means permitting the coin spout to project in the same general direction from the machine irrespective of its particular point of attachment.

The references relied upon by both tribunals in the Patent Office are as follows: Beck, 1,462,679, July 24, 1923; King, 1,475,585, Nov. 27, 1923; Clarke, 718,092, Jan. 13, 1903.

Appellant's device is of the type generally in use in banks, and—

wherein coins are adapted to be delivered from a coin tray or magazine by operating keys bearing suitable designating marks to deliver the proper number of coins desired.

The claimed novelty in appellant's machine is the use of a delivery spout which is adjustable, vertically or horizontally, which may be placed at either end of the machine, as desired, by the use of screws.

The Board of Appeals was of the opinion that neither of these claimed novel features was new in the art, and rejected the claims on the references Beck and King, in view of Clarke, and upon the further ground that mere adjustability did not constitute patentable subject matter.

Beck shows a spout on a similar machine which may be placed at either end of the machine. His specification states:

• • • The two openings 15 are provided in the casing side walls to permit either a right hand or a left hand coin delivery chute to be provided with the machine.

This spout is not adjustable, horizontally or vertically.

King shows a similar arrangement which is also not adjustable, but may be attached to one side or the other of the machine. King's specification contains the following statement:

• • • Another feature which I desire to call attention to is the fact that the coin chute 51 may be readily changed from right to left or vice versa by removing the plate 77 (see Figure 5) on the side of the machine and the screws 78 which hold the coin chute in position, reversing the coin chute, and putting the plate 77 on the opposite side to close the opening 79. This permits the device to be placed in positions in corners close to walls or other obstructions where the ordinary changer could not be placed if the coin chute should happen to be on the wrong side.

Clarke discloses an adjustable swivel chute-head which is capable of being swung horizontally or vertically. Clarke does not state any specific use to which his device may be adapted, except that it is for "handling material in bulk."

[1] The appellant makes the contention that Clarke should not be used as a reference because the arts are not analogous. We are of opinion that this position is not well taken. It would seem reasonable to suppose that one claiming as a patentable feature an adjustable chute or spout, would naturally look to the art of chutes or spouts to discover whether there were anything patentable in his device.

[2] Adjustability is usually not a patentable subject matter unless the adjustability is made in a new and improved way. Making parts adjustable is not invention, if the ordinary ingenuity of a skilled mechanic can accomplish it. *In re Tucker and Reeves*, 18 C. C. P. A. (Patents) 875; 46 F.(2d) 214, 416 O. G. 286; *Smyth Mfg. Co.* v. *Sheridan et al.*, 149 Fed. 208.

[3] In our opinion the claims were properly rejected on the grounds stated by the Board of Appeals, and its decision is therefore affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

Nystrom and Landwehr v. Mancuso

No. 3,094. Decided April 17, 1933

1. Interference—Priority—Delay in Filing Application.

"There is no statutory enactment to the effect that the mere lapse of two years from reduction to practice to application for patent shall constitute a bar to patent. Nor is there any authority, which has come to our notice, so holding. Certainly this court has never announced any such doctrine."

2. SAME—SAME—CONCEALMENT OF INVENTION—BURDEN OF PROOF.

"The burden was upon the appellants to prove suppression and concealment during the said period of two years or more."

3. SAME—SAME—SAME.

Evidence reviewed and *Held* insufficient to establish that M. who was the first to reduce the invention to practice, concealed and suppressed that invention and *Held* further that priority was properly awarded to M.

APPEAL from the Patent Office. Affirmed.

Mr. Frank E. Liverance, jr., for Nystrom and Landwehr.

Mr. Bernard F. Garvey for Mancuso.

GRAHAM, *P. J.*:

Oscar P. Nystrom and Charles H. Landwehr, residing at Holland, Mich., filed their application on December 5, 1927, for an improved cold-air circulator for warm-air furnaces. The nature of this improvement is sufficiently shown, for the purposes of this case, by the counts of the interference hereinafter quoted.

On December 29, 1928, Benjamin J. Mancuso, of Batavia, N. Y., filed his application in the United States Patent Office for a similar improvement. The counts of the interference originated in the Nystrom and Landwehr application, being inserted therein by amendment. These counts were suggested to Mancuso by the Primary Examiner, and were thereafter entered as an amendment by said Mancuso. Thereupon an interference was declared, which is now before us. The counts of the interference are two in number, and are as follows:

1. In a warm air furnace, the combination of a casing with intake openings for cold air at the lower part, a cold air box connection for each cold air intake opening formed of walls on three sides secured to the furnace casing and one side formed by the furnace casing, and a pipe joint connection at the top of said cold air box and a cold air pipe connected thereto.

2. In a warm air furnace, the combination of a casing, an aperture in the lower part of the casing, and a cold air box with walls at three sides and with the casing wall constituting one side thereof and adapted to deliver air to the said aperture and a cold air pipe connected thereto.

The Examiner of Interferences, after testimony had been taken by both parties, awarded priority on both counts to Mancuso. In so doing, he awarded the date of conception and reduction to practice as of October, 1926, to Mancuso. Nystrom and Landwehr relied upon their filing date of December 5, 1927, for conception and reduction to practice. The point was made before the tribunals below that the counts did not read on appellants' device which they rely upon for reduction to practice. Error was assigned on this question here, but was not pressed. The point was also made by Nystrom and Landwehr, before the Examiner of Interferences, that Mancuso's device had been in public use for over two years before his application for patent was made, and that, therefore, he should be barred from receiving a patent thereon. The Examiner of Interferences held adversely to Nystrom and Landwehr on these issues, and also added a finding that there was no evidence in the record which would warrant a finding of the "secreting or abandonment of the invention."

Before the Board of Appeals, the same issues seem to have again been insisted upon. The Board found and held that the counts read on Mancuso's said device, that there was no case of public use made out, and that even if such public use were shown, it would result in rendering Nystrom and Landwehr's disclosure unpatentable, as in such case any benefit would inure not to Nystrom and Landwehr, but to the public.

In this court the appellants concede the findings of fact made by the tribunals below, waive the question of public use, and rely upon one issue only, namely, that appellee, after reducing his invention to practice, waited, without further activity, over two years before he made any attempt to apply for a patent thereon, and that then he did so only when spurred into activity by the commercial activity of the appellants. In other words, suppression and concealment is charged.

In order that the issue may be narrowed so far as possible, it is well to first consider the question as to the activity of appellants, and its effect in spurring appellee into action.

The record does not impress us that any such effect was produced upon the mind of appellee by such activity. It appears that one Malone was employed by both Mancuso and the Holland Furnace Company, the assignee of Nystrom and Landwehr, in Batavia, in the latter part of 1928. His employment by Mancuso began September 17, 1928. While thus employed, he obtained a contract for Mancuso to erect a furnace in Batavia for one Templo. Mancuso began the work of erecting the furnace, and put in the necessary pipes during construction. When he finally came to deliver the furnace he was told by Templo that he, Templo, had bought a Holland furnace and not one of Mancuso's furnaces. It then appeared that Malone had been working for both parties, and had arranged with Templo that the furnace to be used was to be a Holland furnace. Difficulty was had between the Holland people and Mancuso as to who should complete the furnace, and finally this was done by the Holland company, after payment to Mancuso of a certain amount by the Holland people in settlement of Mancuso's mechanics' lien. Malone then disappeared from the scene and neither party seems to have had any subsequent knowledge of him. He was not called to testify.

It is upon this circumstance appellants rely in insisting that Mancuso was spurred into activity by their commercial efforts in Batavia. In our opinion no such inference can be drawn from this circumstance. The conduct of Malone is, to say the least, questionable in this entire transaction, and neither the tribunals below, nor this court, are justified in accepting this circumstance as sufficient to defeat Mancuso's right to a patent, if he is otherwise justly entitled thereto. There is positive proof in the record that Mancuso had no knowledge of, and never saw, the furnace which was installed by the Holland company for Templo, and had no knowledge of whether it contained the device which is now the subject matter of this litigation.

The question, therefore, resolves itself into the simple issue, whether Mancuso must be held to be barred by concealment and suppression, because of the lapse of a period from October 7, 1926, when appellee reduced to practice, to October 8, 1928, when it is conceded Mancuso ordered a search to be made preparatory to the filing of an application for patent, and after which latter date no concealment or suppression can be charged.

The testimony discloses that Mancuso was engaged in the plumbing and furnace business, in Batavia, N. Y., in September, 1926. A hot air furnace had been ordered for his building, and was then being installed in the cellar thereof. The workman installing the same had difficulty in finding a proper place for the cold air pipe. In endeavoring to meet this difficulty, Mancuso conceived the idea of the invention in issue, and had the same installed as a part of the furnace. This invention, like many others, was the result of the necessity of overcoming unsatisfactory conditions. His invention, a boot for the cold-air duct, was completely installed on October 6 or 7, 1926. There is no contention made that reduction to practice was not then made, or that the device was not successfully operated at that time.

The record shows that this furnace was successfully operated in appellee's basement during all the period between its installation and the entrance of appellants into the field. At various times during the period before appellee ordered an application for patent to be filed, the operation of the device was tested by appellee by using as fuel, from time to time, wood, coal, gas, coal again, and oil. During this period, from time to time, appellee tested the operation of the device by the use of plumbers' candles and matches.

On October 8, 1928, Mancuso prepared and sent to his attorney a sketch of his invention, asking that a patent search be made, preparatory to filing application. He installed a furnace containing his invention in the home of one Quinlan, in Pavilion, N. Y., in November, 1928, and since that time has installed many of them. Mancuso states that he made the various tests because he was doubtful about the circulation of air with different fuels.

It is seriously contended by the appellants that the lapse of over two years from the time of appellee's conception and reduction to practice until he filed his application, should be held to constitute a suppression and concealment of the device by Mancuso, and should estop him from an award of priority. In support of this proposition, several authorities are relied upon, notably *Mason* v. *Hepburn*, 13 App. D. C. 86, 84 O. G. 147.

[1] There is no statutory enactment to the effect that the mere lapse of two years from reduction to practice to application for patent shall constitute a bar to patent. Nor is there any authority, which has come to our notice, so holding. Certainly this court has never announced any such doctrine.

[2] The burden was upon the appellants to prove suppression and concealment during the said period of two years or more. *MacLaren* v. *Stoetzel*, 17 C. C. P. A. (Patents) 857, 38 F.(2d) 125, 395 O. G. 334; *Harlan* v. *Bregman et al.* 17 C. C. P. A. (Patents) 949, 39 F.(2d) 494, 396 O. G. 347.

[3] We are of opinion this burden has not been sustained. The appellee was neither concealing nor suppressing his invention. He had a full conception of its functions, and frequently tested its capacity and possibilities. All those who worked at his establishment were aware of these facts. These circumstances should be considered. *Rolfe* v. *Kolesling*, 32 App. D. C. 582, 143 O. G. 562. Every case of alleged concealment and suppression should be considered upon its own facts. *Wietzel* v. *Lacy*, 17 C. C. P. A. (Patents) 943, 39 F.(2d) 672, 396 O. G. 523.

The case of *Mason v. Hepburn*, supra, should always be read with the facts of that particular case in mind. In that case the inventor reduced his invention, a gun clip, to practice, and laid it away for approximately seven years, during which period he commercialized other similar articles, but not this one. Spurred into activity by another entering the field, he then made application for patent. The Court of Appeals of the District of Columbia held, in view of these facts, that the prior inventor had not established his right to a patent, because of his "deliberate" concealment and withholding of his invention from the public for an extended period.

The doctrine, however, should not be indiscriminately applied. The Court of Appeals of the District of Columbia, in an illuminating opinion by the chief justice in *Lederer* v. *Walker*, 39 App. D. C. 122, 182 O. G. 511; appreciating that the doctrine announced in that case was being misunderstood and misapplied, called particular attention to the fact that the *Mason* v. *Hepburn* case, supra, was one of "deliberate secretion of an invention." This clear statement was made:

> None of the cases cited support the doctrine that mere delay in applying for a patent, after actual reduction to practice, will necessarily subordinate the first inventor's right to one who, in the meantime, has applied for a patent for the same invention, though it may be a potent circumstance in determining whether the alleged reduction to practice had, in fact, been made. The right of the first inventor who has actually reduced to practice has always been respected where there is no doubt of actual reduction to practice, and consideration has always been given to the circumstances excusing the delay.

Attention is also directed to the later cases of *Hathaway* v. *Field*, 48 App. D. C. 369, 261 O. G. 413, and *McGrath* v. *Burke*, 56 App. D. C. 220, 352 O. G. 535, and to *MacLaren* v. *Stoetzel*, supra.

We have given the general application of the *Mason* v. *Hepburn* case doctrine extended notice in *Severson* v. *Olson*, 20 C. C. P. A. (Patents) ——, —— F.(2d) ——, decided concurrently herewith, and further comment thereon is, therefore, unnecessary here.

The decision of the Board of Appeals of the United States Patent Office is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE BAYER

No. 3,108. Decided April 17, 1933

PATENTABILITY—RIGHT TO MAKE THE CLAIMS.

Record reviewed and *Held* that applicant was properly refused a claim which he had copied from a patent since that claim is not supported by his disclosure.

APPEAL from the Patent Office. Affirmed.

Messrs. Marks & Clerk and *Mr. J. T. Newton* for Bayer.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GRAHAM, *P. J.*:

The appellant filed his application in the United States Patent Office for alleged improvements in porous building materials on December 23, 1925. His specification is brief, and is as follows:

> This invention relates to a manufactured porous material particularly adapted for building and insulating purposes, the material being made from substances which set when mixed with water or other fluids, for example, cement and gypsum. The material is made by adding frothy substances in any convenient way during the treatment of the substance with the mixing fluid. It has been found possible to produce a foam which during the subsequent working of the material is of such durability that when properly handled a great number of air bubbles are left in the material.
>
> The material may be made by adding the foam developing substance to the fluid entering the material or to a mixture of the fluid and the solid material which is to be mixed with the fluid and allowed to set: thereafter the foam may be developed either by stirring up the mass vigorously or by introducing compressed air or carbonic acid. In most cases, however, it will be simplest to first develop the foam and then add the foam to the mixing fluid or to a mixture of the fluid and the setting substance. By production on a large scale the foam may be prepared in a special machine from which it may be carried to a mixing machine of the usual construction so that the foam is introduced into the mixture instead of or simultaneously with the sand or other ingredients.
>
> I may use as a foamy substance, different kinds of mucilage, for example, the mucilage obtained from seatang; the so-called tangin may also be used. The durability of the foam obtained from such substances may be increased by adding gelatine. The quantities required of these substances are small and consequently the manufacturing process is very cheap.
>
> In certain cases it has been observed that the durability of the foam is further increased by adding small portions of formaldehyde.
>
> On account of the structure the material produced will be light and heat-proof and it may be manufactured into shaped slabs, which may be fastened on with cement or nails or cast at the place of manufacture.

In connection with this application, the appellant made claim 15, which is as follows:

> A cellular fabric comprising a body of adherent bubbles, each having a thin rigid envelope of set hydraulic cement.

This claim is a copy of claim 2 of the patent to Hinton, hereinafter referred to, and was inserted for the purpose of obtaining an interference with said patent.

Both tribunals in the Patent Office rejected the claim, which is the only one in issue here, citing the following references: Sanford, 230,151, July 20, 1880; Aylsworth, 1,087,098, February 17, 1924; Hinton, 1,739,460, December 10, 1929; Bayer (Br.), 203,718, October 30, 1924.

Both tribunals, however, specifically rejected the claim on the grounds that it was not supported by appellant's disclosure.

The Hinton patent discloses a product which is summed up in the following language:

> * * * As set forth in the patent aforesaid, the method produces a cementitious material of cellular structure which is produced by agitating and aerating a mixture of hydraulic cement and water, to which is added a relatively small quantity of a frothing flotation reagent, the aeration of the mixture being brought about by breaking up air forced into the mixture into bubbles which are uniformly distributed throughout the mixture and which, because of the presence of the flotation reagent, take on a sheath or envelope of cement, the cement coated bubbles eventually rising to the top of the mixture and collecting to form a froth of mutually adherent bubbles, which may be cast into molds or formed into the desired shapes by other means, so that the final product is in the form of a fabric of cellular structure in which the unit cells are mutually adherent shells of set hydraulic cement.

It is quite evident that Hinton had in mind a product such as is described in the rejected claim 15 here involved.

We agree with the Patent Office tribunals that the appellant here has not made a disclosure of any such product. The product which he does disclose in his specification will consist of a cementitious mass throughout which bubbles are mixed, and which will therefore be a porous cement mass. If, as the Patent Office tribunals state, this is all the appellant discloses, his application for patent must be rejected on reference to Sanford and Aylsworth, each of whom discloses such a structure. If, on the other hand, appellant's product differs from that of Aylsworth and Sanford, and is such a product as is shown by Hinton, appellant's disclosure is not sufficient to describe any such product. Appellant's product is a—

> material * * * of such durability that when properly handled a great number of air bubbles are left in the material.

This differs greatly from a material which is all bubbles, as described in the claim.

This being true, appellant is not entitled to the allowance of his claim 15, and the decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE COVEY

No. 3,077. Decided April 17, 1933

1. PATENTABILITY—ANALOGOUS ART—WEARING SURFACE OF TIRES AND SOLES OF SHOES.

   "We are of opinion, therefore, that the use of crepe rubber for the tread or wearing surface of tires is not analogous to its use for soles of shoes; that, in view of the foregoing considerations, such use by appellant was more than a mere substitution of a superior, for an inferior, material, or of one well-known form of a particular material for another well-known form of the same material."

2. SAME—TIRE HAVING CREPE RUBBER TREAD.

   Claims for a tire having a tread formed of crepe rubber *Held* patentable over the prior art.

APPEAL from the Patent Office. Modified.

Mr. Thomas L. Wilder for Covey.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner denying claims 10 to 20, inclusive, in appellant's application for a patent for an alleged invention relating to improvements in tires.

At the time of the oral argument in this court, counsel for appellant in open court withdrew all of the appealed process claims, Nos. 16 and 17.

Of the remaining claims, claims 10 and 19 are illustrative. They read:

> 10. In a tire, having a casing, crepe rubber formed integral therewith to prevent skidding.
>
> 19. In a tire composed of fabric, a crepe rubber composition applied to said fabric to prevent skidding.

The references are: Hobson et al., 1,412,744, April 11, 1922; and Oakley, 1,672,653, June 5, 1928.

In describing his invention, appellant, in his specification, stated:

> The balloon tire is made of the usual cord fabric * * * and an outer rubber casing * * *. The tread * * * and a portion of the walls of the tire is moulded or made from what is well known in the art as crepe rubber * * *.

In addition to the nonskid feature of his alleged invention, appellant stated in his specification that tire treads made of crepe rubber were superior to those made of "ordinary rubber," in that they would give greater wear and would not "wear smooth."

The patent to Hobson et al. relates to the use of carborundum cloth or fabric for the tread or wearing surface of tires. The patentee stated that the use of such material in the construction of tires made them—

> substantially puncture proof, prevents skidding and slipping on wet pavements or roadways, and owing to the wearing quality of said material the lives of the tires are greatly increased and without any loss of resiliency.

The patent to Oakley discloses the use of crepe rubber for the tread or wearing surface of the soles and heels of shoes. The patentee stated in his specification that crepe rubber was secured to, and reenforced by, a layer of "tough, high quality, light-weight rubber," and that it provided an excellent tread or wearing surface.

The Primary Examiner held that, in view of the fact that the characteristics and qualities of crepe rubber were well known, there was no invention in substituting crepe rubber for the carborundum cloth or fabric disclosed in the patent to Hobson et al. He further stated that the use of crepe rubber for the tread or wearing surface of shoe soles for its antislipping qualities, as disclosed in the patent to Oakley, was analogous to the use of crepe rubber in the manufacture of treads for tires.

The Board of Appeals affirmed the decision of the Primary Examiner holding that invention was not involved in employing crepe rubber in the manufacture of tire treads, in view of the disclosure in the patent to Oakley.

Counsel for appellant argues, and the contrary is not asserted by the Solicitor for the Patent Office, that appellant's tire is not only new and useful, but that it is commercially successful.

The patent to Oakley discloses that it is old to use crepe rubber as the tread or wearing surface of soles of shoes. Assuming that it was used, among other things, for the purpose of preventing the wearer of the shoes from slipping, although the reference does not disclose its use for that purpose, it is obvious, nevertheless, that the problem confronting appellant was far different from that confronting the patentee, Oakley.

It is well known that "ordinary rubber," employed in the manufacture of soles for shoes and overshoes, has a tendency to prevent slipping. It is equally well known that automobile tire treads made of so-called "ordinary rubber" have not successfully prevented skidding on pavements made slippery by water, snow, and ice, and that chains of metal and other material have been devised and used to cover the treads of tires for that purpose. Such devices, expensive and cumbersome, have been only partially successful. It would seem, therefore, in view of the years of effort by tire manufacturers and others to solve the problem confronting appellant that, if the use of crepe rubber for the tread of tires is analogous to its use for the soles of shoes, and obvious to one skilled in the art, it would have occurred to some one at an earlier date. See *In re Fawick*, 19 C. C. P. A. (Patents) 1125, 56 F.(2d) 873, 421 O. G. 855.

[1] We are of opinion, therefore, that the use of crepe rubber for the tread or wearing surface of tires is not analogous to its use for soles of shoes; that, in view of the foregoing considerations, such use by appellant was more than a mere substitution of a superior, for an inferior, material, or of one well-known form of a particular material for another well-known form of the same material; and that it required the exercise of the inventive faculties to produce appellant's tire. See *Potts* v. *Creager et al.*, 155 U. S. 597, 70 O. G. 494; *Lakewood Engineering Co.* v. *Walker*, 23 F.(2d) 623, 377 O. G. 760.

[2] For the reasons herein stated, the appeal is dismissed as to process claims 16 and 17, and in all other respects the decision of the Board of Appeals is reversed.

Modified.

Court of Appeals of the District of Columbia

OTTO *v.* ROBERTSON, Commissioner of Patents

No. 5,801. Decided June 26, 1933

PATENTABILITY—GYROCOMPASS-CONTROLLED COURSE INDICATOR.

Claims for a gyrocompass-controlled course indicator *Held* patentable over the prior art.

GRONER, Associate Justice, dissenting.

APPEAL from the Supreme Court of the District of Columbia. Reversed.

Mr. Roberts B. Larson for Otto.

Mr. T. A. Hostetler for the Commissioner of Patents.

Before MARTIN, Chief Justice, and VAN ORSDEL, HITZ, and GRONER, Associate Justices

VAN ORSDEL, *J.*:

This case comes here from a decree of the Supreme Court of the District of Columbia dismissing a bill in equity brought by the appellant to require the Commissioner of Patents to issue him a patent applied for and denied by the tribunals of the Patent Office.

The invention involves a repeater compass or follow-up compass of what is known as the gyro-

compass system, in which there is a series of numbering wheels, the movements of which are controlled from the main or master compass. It is so arranged that one number from each wheel is automatically selected, and all of the selected numbers accurately indicate the reading of the main or master compass, the number displayed representing the degree of the angle between the line of travel and the zero point on the master compass.

The invention is set forth in a number of claims, of which the following are illustrative:

1. A gyrocompass-controlled course indicator for indicating in numerals the degree of the angle of the line of travel with any given direction, comprising the combination with a gyrocompass-controlled follow-up motor of a counter driven by said motor and including a plurality of interconnected numbering elements each provided with a set of numerals and movable to select for exhibition a single numeral from each set, the selected numerals constituting a figure representing the angle of the line of travel with a given direction.

4. gyrocompass-controlled course indicator for indicating in numerals the degree of the angle of the line of travel with any given direction, comprising in combination a gyrocompass-controlled follow-up motor, a handle, a counter including a plurality of interconnected numbering wheels arranged in juxtaposition, each provided with a set of numerals and movable to select for exhibition a single numeral from each set, and means to selectively clutch said counter to said follow-up motor or to said handle.

The object of the present invention is to provide a simple indicator which will conveniently and clearly show in degrees, minutes, and seconds, the angle of the keel line of the ship with a certain predetermined direction. In order to establish the predetermined direction, the numeral wheels may be unclutched from the follow-up motor, so that they may be set in any direction by a manual process. Assuming that the proposed course of a ship is due west, the ship is set on its course. The follow-up motor is then unclutched long enough to set the numerals at zero. It is then connected up and the numeral reading will give in exact degrees, minutes, seconds, and tenths of seconds, the angle of deviation from the due west course. It follows that to keep the ship on its west course without deviation, the helmsman must keep the numerals reading zero.

In other words, assuming that the needle on the master compass records a deviation of 13 degrees 7 minutes, and 37.3 seconds, these figures will be instantly displayed on the dial of the repeater compass. From this illustration, it is obvious that appellant's invention has many distinct advantages over the prior art.

For centuries the compass card has been considered an essential part of the compass. About a quarter of a century ago, repeater compasses were invented. Until the appearance of the present device, no other means had been devised for reproducing the location of the vessel as shown on the master compass card by a repeater compass, except by the use of a card similar to that used on the master compass. In other words, the movement of the needle on the master compass, indicating on the card the location of the vessel, had been, until the discovery of this invention, indicated by the mechanism used on a similar card located in the repeater device. The mechanism of the repeater compass was connected to the main compass by means of a cable, and through electrical operation of the mechanism, the reading on the master compass card could be conveyed instantly to the repeater compass card at any point or portion of the vessel, or at the same time to any number of points on the vessel where repeater devices were installed.

The limit of advancement in the prior art consists of an arrangement whereby the indications or readings of a master compass can be duplicated, as above described, on one or more repeater compasses positioned at different points on a ship. The movements of the compass card on the master compass starts an electrical energy which controls a reversible step-by-step follow-up motor which turns the compass card on the repeater compass. This arrangement is disclosed in a patent to Anschutz-Kaempfe No. 1,092,816, and also in a patent to Holmes, No. 1,704,250.

These patents have been cited by the Patent Office as an anticipation of the present invention, since the connection and mechanism for operating the repeater compass by the movement of the master compass is substantially the same as that used to operate appellant's device. Strictly speaking, however, appellant's device is not a compass. It is a recording device connected to the main or master compass by electric means that reproduces the relative positions of the compass card of the master compass, thus indicating accurately the sailing direction of the ship.

The Examiner, to find anticipation, was compelled to go to non-analogous arts. On this point he said:

When applicant, thereafter, desires merely to give his indications of deviations from a course in figures on a digit wheel rather than in needle indications on a compass dial, he has done so merely by adopting old and well-known devices in registers, timekeeping mechanisms, and others, which devices are of common knowledge and open to the selection of anyone.

We are not convinced that this conclusion is correct. It is often easy, after a mechanical device has been discovered and successfully reduced to practice, to speculate as to the simplicity of the process by which it was accomplished. The twilight zone between that which is obvious to one skilled in the art and invention is not always easy of determination.

However, in this case, we think, considering the distinct advancement in the art, the fact that the invention has gone into extensive use on the great ocean liners that traverse the seas, and the convenience, accuracy, and simplicity of determining exact location from the numerals indicated on the dial, that appellant is clearly within the field of invention.

We have no difficulty in arriving at the conclusion that the alleged anticipation is not sufficient in this case to deprive appellant of his right to a patent. In *Topliff* vs. *Topliff*, 145 U. S. 161, 59 O. G. 1297, Mr. Justice Brown, speaking for the court, said:

It is not sufficient to constitute an anticipation that the device relied upon might, by modification, be made to accomplish the function performed by the patent in question, if it were not designed by its maker, nor adapted, nor actually used, for the performance of such functions.

And, as we said in *In re Eastwood*, 33 App. D. C. 291, 300, 144 O. G. 819.

And the argument advanced, after the combination has been effected and the new result obtained, that anyone could have done the same thing, ought not to receive great consideration in a case like this, where ten years elapse before the combination became an accomplished fact. Especially is this true where a material advance has been made in the art involved.

The decree is reversed with costs against appellant, and the cause is remanded with instructions to enter a decree requiring the Commissioner of Patents to issue a patent to the applicant.

Mr. Justice GRONER dissents.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,039,405, W. S. Ferguson, Reinforced concrete dock or pier, D. C., S. D. Tex. (Houston), Doc. E 448, *The Dock & Terminal Engineering Co. et al.* v. *A. Sprunt & Sons.* Decree for defendant May 25, 1933. Doc. E 450, *The Dock & Terminal Engineering Co. et al.* v. *Houston Compress Co.* Dismissed May 25, 1933.

1,182,439, A. B. Wood, Centrifugal pump, filed May 16, 1933, D. C., E. D. Va., Doc. 288, *Fairbanks, Morse & Co. et al.* v. *Worthington Pump & Machinery Corp.*

1,195,632, W. C. White, Circuit connections of electron-discharge apparatus; 1,251,877, A. W. Hull, Method of and means for obtaining constant direct current potentials; 1,728,879, Rice & Kellogg, Amplifying system; Re. 18,579, Ballantine & Hull, Demodulator and method of demodulation; 1,811,095, H. J. Round, Thermionic amplifier and detector, D. C., S. D. N. Y., Doc. E 75/346. *Radio Corp. of America et al.* v. *Radio Syndicate Co., Inc.* Consent decree for plaintiff (notice May 27, 1933).

1,219,560, J. G. King, Engine starter, filed June 1, 1933, D. C. Mass., Doc. E 3384, *A. A. Densmore* v. *Jackson Electric Co.*

1,251,764, F. Lowenstein, Telephone relay; 1,465,332, H. D. Arnold, Vacuum-tube amplifier; 1,573,874, P. A. Chamberlain, Radio condenser; 1,618,017, F. Lowenstein, Wireless telegraph apparatus, D. C., S. D. N. Y., Doc. E 75/345, *Radio Corp. of America et al.* v. *Radio Syndicate, Inc.* Consent decree for plaintiff (notice May 27, 1933).

1,251,377. (See 1,195,632.)

1,262,860, S. B. Smith, Incubator, appeal filed May 29, 1933, C. C. A., 8th Cir., Doc. 9757, *E. H. Snow et al.* v. *S. B. Smith.*

1,294,250, C. V. Elliott, Arc welding electrode; 1,528,878, 1,528,879, C. J. Holslag, Electric arc welding electrodes; 1,559,875, same, Method of and means for electric arc welding, filed Apr. 26, 1933, D. C., E. D. Pa., Doc. 7677, *Electric Arc Cutting & Welding Co.* v. *R. D. Thomas & Co.*

1,324,620, H. Rosenberg, Lock and indicator for dampers, filed May 17, 1933, D. C., E. D. Pa., Doc. 7713, *H. Rosenberg et al.* v. *Hart & Cooley Mfg. Co.*

1,402,685. (See 1,573,805.)

1,403,250, Jones & Nielson, Paper-feeding mechanism, filed Mar. 9, 1933, D. C., E. D. Va., Doc. 287, *Duplex Envelope Co., Inc.*, v. *Denominational Envelope Co. et al.*

1,406,913. (See 1,573,805.)

1,462,904, S. E. Finley, Method of preparing bituminous cement aggregate composition; 1,522,431, same, Apparatus for preparing bituminous cement aggregate composition, appeal filed May 31, 1933, C. C. A., 8th Cir. (St. Louis), Doc. 9760, *S. E. Finley et al.* v. *Asphalt Paving Co. of St. Louis.*

1,465,332. (See 1,231,764.)

1,467,614, C. E. Eads, Finger nail cleaning compound, filed June 2, 1933, D. C., E. D. N. Y., Doc. E 6971, *Northam-Warren Corp.* v. *D. F. Newfield Co., Inc., et al.*

1,475,980, O. Zerk, Lubricating apparatus, filed June 1, 1933, D. C., E. D. Wis. (Milwaukee), Doc. 4099, *Alemite Corp.* v. *Wisco Products, Inc.*

1,505,592. F. W. Epperson, Frozen confectionery, filed June 1, 1933, D. C., E. D. N. Y., Doc. E 6970, *National Popsicle Corp. et al.* v. *S. Kroll et al.*

1,522,431. (See 1,462,904.)

1,526,982, E. W. Hill, Stencil sheet, filed May 29, 1933, D. C., S. D. N. Y., Doc. E 76/90, *A. B. Dick Co.* v *B. M. Turner et al.*

1,528,878. (See 1,294,250.)

1,528,879. (See 1,294,250.)

1,559,875. (See 1,294,250.)

1,566,586, J. C. Dodson, Sucker rod guide, D. C., N. D. Okla. (Tulsa), Doc. E 602, *Mesta Planing Mill Co.* v. *H. Rickmon.* Dismissed for want of equity Jan. 21, 1933.

1,573,874. (See 1,281,764.)

1,573,805, M. B. Cary, Lamp structure; 1,402,685, 1,406,913, P. J. Timberlake, Holder for electric lights, D. C., S. D. N. Y., Doc. E 72/815, *L. Ludwig* v. *A. A. Victor (Victor Mfg. Co.).* Patents sustained (notice May 26, 1933).

1,591,980, H. W. Jones, Flashlight, D. C., S. D. N. Y., Doc. E 74/400, *National Carbon Co., Inc.*, v. *U. S. Electric Mfg. Corp.* Injunction granted (notice May 26, 1933).

1,618,017. (See 1,231,764.)

1,670,750, 1,706,417, J. T. Simpson, Mixing machine, filed Apr. 10, 1933, D. C., E. D. Pa., Doc. 7649, *National Engineering Co. et al.* v. *Lancaster Iron Works, Inc.*

1,675,280, J. T. Smith, Refrigerating cabinet and method of refrigerating elongated bodies, D. C., N. D. Ohio, E. Div., Doc. 3442, *The Russ Mfg. Co.* v. *Knight Soda Fountain Co.* Claims 1 to 13, inclusive, held valid and infringed May 29, 1933.

1,687,167, R. M. Mann, Connecting plug; Des. 82,616, L. Ludwig, Attachment plug, D. C., S. D. N. Y., Doc. E 59/306, *Eagle Electric Mfg. Co., Inc.*, v. *Rodale Mfg. Co., Inc.* Dismissed (notice May 31, 1933).

1,706,417. (See 1,670,750.)

1,715,825, B. F. Hayden, Spreading apparatus, D. C., S. D. N. Y., Doc. E 54/104, *Good Roads Co., Inc.*, v. *C. Hvass & Co., Inc.* Dismissed (notice May 26, 1933).

1,718,929, Smith & Julien, Weather strip, filed May 29, 1933, D. C., S. D. N. Y., Doc. E 76/91, *Chamberlain Metal Weather Strip Co.* v. *A. B. C. Metal Corp.*

1,728,879. (See 1,195,632.)

1,737,187, Charch & Prindle, Moisture proof material; 1,826,696, same, Moisture proofing composition; 1,826,699, same, Method of preparing moisture proof material; 1,826,697, Charch & Craigue, Apparatus for coating; 1,826,698, same, Method of coating, D. C., E. D. Va., Doc. 285, *Du Pont Cellophane Co., Inc.*, v. *Sylvania Industrial Corp.* Dismissed May 22, 1933.

1,771,166, M. E. Davis, Process for applying paints or cements to skived articles, filed June 1, 1933, D. C., N. D. Ohio, W. Div., Doc. E 1354, *H. H. Moyses et al.* v. *The Buckeye Reliner Producing Co.*

1,811,095. (See 1,195,632.) 1,826,696. (See 1,737,187.)

1,826,697. (See 1,737,187.) 1,826,698. (See 1,737,187.)

1,826,699. (See 1,737,187.)

1,829,665, R. G. Mertes, Cup shaped rotary brush; 1,900,575, same, Method of making cup brush, filed May 29, 1933, D. C., N. D. Ohio, E. Div., Doc. 4680, *Pittsburgh Plate Glass Co.* v. *The Herold Mfg. Co.*

1,867,116, Thornhill & Rohr, Cover for handbags, filed May 29, 1933, D. C., S. D. N. Y., Doc. E 76/92, *The Virginia Art Goods Studios, Inc.*, v. *Lansom Corp.*

1,890,365, R. L. Blanchard, Full collapsible panic-proof revolving door, filed May 31, 1933, D. C., E. D. N. Y., Doc. E 6967, *Van Kannel Revolving Door Co.* v. *General Bronze Corp.*

1,900,575. (See 1,829,665.) Re. 18,579. (See 1,195,632.)

Des. 82,616. (See 1,687,167.)

Des. 86,543, J. Shadlowsky, Garment button, D. C., S. D. N. Y., Doc. E 74/295, *Lindy Novelty Corp.* v. *Columbia Button & Novelty Works.* Consent order of discontinuance (notice May 29, 1933).

Des. 89,292, W. Willheim, Textile fabric, D. C., S. D. N. Y., Doc. E 76/84, *W. Willheim Co., Inc.*, v. *Lerner Stores Corp. et al.* Consent decree sustaining patent, injunction granted as to Lerner Stores Corp., discontinued as to other defendants (notice May 26, 1933).

Des. 90,006, P. Reiman, Textile fabric, filed May 26, 1933, D. C., S. D. N. Y., Doc. E 76/83, *M. Oltarsh et al.* (*J. Oltarsh*) v. *Goldstein-Wilkins Corp. et al.* Doc. E. 76/84, *M. Oltarsh et al.* (*J. Oltarsh*) v. *I. Edison et al.*

Disclaimers

1,426,754.—*Robert C. Mathes*, New York, N. Y. CIRCUITS FOR ELECTRON DISCHARGE DEVICES. Patent dated August 22, 1922. Disclaimer filed June 24, 1933, by the assignee, *American Telephone and Telegraph Company.*

Hereby enters this disclaimer to claim 25 of said letters patent, to wit:

"25. In a vacuum tube amplifier circuit wherein the space current of said amplifier depends upon the voltage of a variable source of current connected to an anode and a cathode, the method which comprises supplying said circuit with at least two impulses, one a compensated impulse derived from an effect produced by variations of said source and the other due to an impulse to be amplified."

1,814,931. *George W. Janson*, Nutley, N. J. SWITCHBOARD SIGNAL SYSTEM. Patent dated July 14, 1931. Disclaimer filed June 24, 1933, by the assignee, *The Western Union Telegraph Company.*

Hereby enters this disclaimer to the claims in said specification which are in the following words, to wit:

"3. A signal system for a telegraph switchboard at which a plurality of line circuits terminate, comprising a wire chiefs jack and a signal lamp associated with each line circuit, a loop circuit included in each line circuit, means responsive to a signal originating at said loop circuit for causing said lamp to glow, means for maintaining said lamp in operation after said signal has ceased, and means for discontinuing the operation of said lamp upon insertion of a plug in the wire chiefs jack."

"4. A signal system for a telegraph switchboard at which a plurality of mainline circuits terminate, comprising a signal lamp associated with each line circuit, a loop circuit included in each line circuit, a differential relay having a winding in said line circuit at each side of said loop circuit, said relay being responsive to predetermined electrical conditions of said loop circuit to cause said lamp to operate, and means arranged at the switchboard for discontinuing the operation of said lamp".

"6. A signal system for a telegraph switchboard at which a plurality of main line circuits terminate, comprising a signal device associated with each line circuit, a loop circuit included in each line circuit, a differential relay having a winding in said main line circuit at each side of said loop circuit, a circuit for said signal device, a wire chiefs jack having contacts in said signal circuit, said relay being responsive to a grounded condition of said loop circuit to complete said signal circuit, and a locking relay for maintaining said signal circuit closed after cessation of operation of the differential relay, said signal circuit being interrupted by insertion of a plug in the wire chiefs jack".

"9. A signal system for a telegraph switchboard at which a plurality of main line circuits terminate, comprising a signal lamp associated with each line circuit, a signal device common to each line circuit, means responsive to predetermined conditions of said circuit for causing said lamp and signal device to operate, means normally retaining said lamp and signal device in operation after said predetermined line condition has ceased, and means at the switchboard for discontinuing the operation of said lamp and signal device".

"11. A signal system for a telegraph switchboard at which a plurality of lines terminate, comprising a lamp individual to each line, a signal device common to each line, a relay for each lamp and a relay for said signal device, said first relays being responsive to predetermined line conditions to initiate the operation of the lamp associated with the line at which such condition occurs, and said second relay being responsive to the operation of said first relay to initiate the operation of said signal device and a locking means for the first relay actuated by operation of said relay to maintain said lamp and signal device operated independently of said line condition."

"12. A signal system for a telegraph switchboard at which a plurality of line circuits terminate, comprising a signal lamp associated with each line circuit, a loop circuit included in each line circuit, means responsive to a signal originating at said loop circuit for causing said lamp to glow, means for maintaining said lamp in operation after said signal has ceased, and means at the switchboard for discontinuing the operation of said lamp."

"13. A signal system for a telegraph switchboard at which a plurality of main line circuits terminate, comprising a signal lamp individual to each line circuit, a signal device common to each line circuit, a loop circuit included in each line circuit, and means responsive to a predetermined electrical condition of said loop circuit to cause said lamp to operate in a characteristic manner and for causing said common signal device to operate in a different distinctive manner."

TRADE-MARKS

OFFICIAL GAZETTE, JULY 25, 1933

[VOL. 432. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser No. 338,070. CAMPBELL, MORRELL & COMPANY, Passaic, N. J. Filed May 22, 1933.

PREMIER D. L. & W. COAL

The words and characters "D. L. & W. Coal" are disclaimed apart from the mark shown.

For Coal.

Claims use since Jan. 1, 1926.

Ser. No. 338,101. MID-CONTINENT MUD COMPANY, Houston, Tex. Filed May 22, 1933.

HYDRO-JELL

The word "Jell" is disclaimed apart from the mark as shown in the drawing.

For Raw Materials Consisting of Bentonite Employed as a Suspensoid in Oil Well Drilling.

Claims use since Apr. 1, 1932.

Ser. No. 338,603. GOTTESMAN AND COMPANY, INCORPORATED, New York, N. Y. Filed June 7, 1933.

APEX



For Wood Pulp.

Claims use since Mar. 15, 1932.

Ser. No. 338,604. GOTTESMAN AND COMPANY, INCORPORATED, New York, N. Y. Filed June 7, 1933.

ATLAS



For Wood Pulp.

Claims use since Mar. 15, 1932.

Ser. No. 338,605. GOTTESMAN AND COMPANY, INCORPORATED, New York, N. Y. Filed June 7, 1933.

BELL



For Wood Pulp.

Claims use since Mar. 15, 1932.

Ser. No. 338,606. GOTTESMAN AND COMPANY, INCORPORATED, New York, N. Y. Filed June 7, 1933.

ROYAL

G

For Wood Pulp.
Claims use since Mar. 15, 1932.

Ser. No. 338,607. GOTTESMAN AND COMPANY, INCORPORATED, New York, N. Y. Filed June 7, 1933.

TIGER

G

For Wood Pulp.
Claims use since Mar. 15, 1932.

CLASS 2

Receptacles

Ser. No. 338,456. INDIVIDUAL DRINKING CUP CO., INC., Easton, Pa. Filed June 2, 1933.

Bier-dixies

No claim is made herein broadly to the word "Bier-" apart from the mark as illustrated on the accompanying drawing.
For Cups Made of Paper or a Paperlike Material.
Claims use since Apr. 2, 1933.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 336,854. BATEX PRODUCTS CO., Batavia, Ill. Filed Apr. 17, 1933.



The drawing is shaded and lined to indicate black and green. The picture of the girl is fanciful.
For Cleaning Powder for Household Use Having Incidental Water Softening Properties.
Claims use since Feb. 20, 1933.

Ser. No. 336,907. HÖGANÄS-BILLESHOLMS AKTIEBOLAG, Hoganas, Sweden. Filed Apr. 18, 1933.

SICTO

For Grinding Materials in the Form of Abrasive Powder, Pieces, Plates, or Whetstones.
Claims use since 1930.

Ser. No. 336,917. F. D. STEVENS, Jr., doing business as Larabee Products Company, Wichita, Kans. Filed Apr. 18, 1933.



Applicant disclaims the word "DyPolish."
For Leather Dressing.
Claims use since Mar. 1, 1933.

Ser. No. 337,183. FULD BROS., INC., Baltimore, Md. Filed Apr. 26, 1933.

VITOZONE

For Automobile Top Dressing, Cream Silver Polish, Dairy Detergents, Dry Cleaning Soaps, Enamel Cleaner, Floor Cleaning Compositions, Garage Floor Cleaning Preparation, Hospital Soap, Liquid Toilet Bowl Cleaner, Liquid Hand Soap, Liquid Metal Polish, Liquid Silver Polish, Liquid Toilet Soap, Mechanics' Hand Soap, Metal Cleaner, Paste Silver Polish, Pine Scrubbing Soap, Powdered Toilet Bowl Cleaner, Soap Powders, Tile Cleaner, Abrasive Traffic Film Removers, Wall Cleaner, and Wall Paper Cleaner.
Claims use since Nov. 1, 1932.

Ser. No. 337,579. DIEHL RESEARCH LABORATORIES, LTD., Los Angeles, Calif. Filed May 5, 1933.



All wording appearing on the drawing except applicant's corporate name is hereby disclaimed when used separate and apart from the other features of the mark as shown.
For Shaving Cream.
Claims use since Jan. 26, 1933.

Ser. No. 337,882. CAMPANA CORPORATION, Batavia, Ill. Filed May 15, 1933.

Campana's

Applicant is the owner of registration No. 234,572.
For Creams for Use Before and as an Aid to Shaving, and Toilet Soaps.
Claims use since May 10, 1933.

Ser. No. 338,075. CONSOLIDATED INDUSTRIES, INC., Dallas, Tex. Filed May 22, 1933.



The mark is shown as printed in gold, but any suitable color may be used.
For Cleaning Liquids for Dry Cleaning Fabrics.
Claims use since June 1, 1930.

Ser. No. 338,089. HULL-DOBBS COMPANY, Memphis, Tenn. Filed May 22, 1933.

LIF-O-BAK

For Liquid Cleaning Agents Used as a Dry Cleaning Preparation for Textile Fabrics.
Claims use since May 10, 1933.

Ser. No. 338,184. CRESCENT PRODUCTS COMPANY, NOT INC., Chicago, Ill. Filed May 24, 1933.



Applicant disclaims the words "Polish, Non-Inflammable Metal Polish" apart from the mark as shown.
For Metal Polish.
Claims use since May 9, 1933.

Ser. No. 338,193. KELP-INE PRODUCTS CORPORATION OF AMERICA, Seattle, Wash. Filed May 24, 1933.

TANG-O-THE-SEA

For Soap.
Claims use since Oct. 1, 1932.

Ser. No. 338,294. ULTREX PRODUCTS CORPORATION, Boston, Mass. Filed May 27, 1933.

ULTREX

For Alkali Cleansing Compound in the Nature of a Detergent for Cloths, Textiles, and Other Materials.
Claims use since May 16, 1933.

Ser. No. 338,587. SUDITE CHEMICAL MANUFACTURING CORP., Charlotte, N. C. Filed June 6, 1933.

SUDITE

For Soap Preparation Having Properties as a Penetrating and Emulsifying Product.
Claims use since Oct. 29, 1932.

Ser. No. 338,673. THE WARREN SOAP MANUFACTURING COMPANY, INC., Cambridge, Mass. Filed June 8, 1933.

SOLVZWASH

No claim is made to the word "Wash" apart from the mark as shown in the drawing.
For Emulsion Used in Laundering, Comprising a Solvent, Emulsifying Agent, and Water.
Claims use since June 3, 1933.

Ser. No. 338,707. AGNES ANN WILSON, doing business as Sugarland Products Company, San Antonio, Tex. Filed June 9, 1933.

CHIVO BLANCO

For Soap—Namely, Laundry, Toilet, Soap Powder, and Soap Chips.
Claims use since Mar. 4, 1933.

Ser. No. 338,835. HASKINS BROTHERS & COMPANY, Omaha, Nebr. Filed June 14, 1933.

ROSE QUEEN

For Hand Soap, Which May Also be Used for General Household Purposes.
Claims use since January, 1885.

CLASS 6

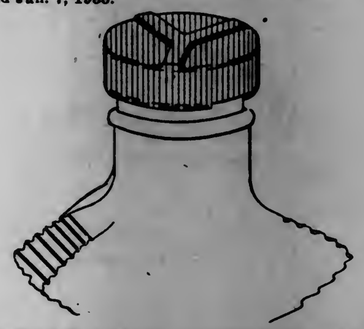
Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 329,866. PAULETTE LABORATORIES, INC., Brooklyn, N. Y. Filed Aug. 26, 1932.

MOR-VIM

For Pomades, Hair Tonics, Hair Oils, Shampoos, Petroleum Jellies, and Toilet Waters.
Claims use since Aug. 1, 1932.

Ser. No. 333,733. C. M. KIMBALL CO., Everett, Mass. Filed Jan. 7, 1933.



Trade-mark is a red cap or cover for the container in which the goods are sold. No claim is made to the representation of the container or to the particular shape of the cap apart from the mark shown.
For Washing Fluid—Disinfectant—Bleach.
Claims use since Nov. 7, 1932.

Ser. No. 334,011. JAMES H. HODSON, doing business as Nanpanton Supply Company, Wetaskiwin, Alberta, Canada. Filed Jan. 17, 1933.

Ying Yang

For Hair Restorer and Dandruff Eradicator.
Claims use since Nov. 23, 1931.

Ser. No. 335,191. DR. FRIEDRICH HEISE G. M. B. H., Berlin-Karlshorst, Germany. Filed Feb. 23, 1933.

Theosumman

For Diuretica and Cardiaca.
Claims use since Jan. 2, 1933.

Ser. No. 335,887. ST. CLAIR RUBBER CO., Marysville and Detroit, Mich. Filed Mar. 20, 1933.

PROFLEX

For Liquid Surface Protection Coatings of Rubber Base Material.
Claims use since Feb. 10, 1933.

Ser. No. 338,171. J. H. TUVIN, doing business as Kelp-A-Malt Laboratories, New York, N. Y. Filed May 23, 1933.

KELPAMALT

No claim is made to the words "Kelp" or "Malt" except in the association shown.
For Tonic Preparation for Supplying Organic Sea Minerals in Readily Assimilable Form.
Claims use since Feb. 19, 1933.

Ser. No. 338,173. LESTER G. BRIEDE, doing business as Royles Laboratories, Chicago, Ill. Filed May 22, 1933.

CASTOROLA

For Castor Oil Preparations.
Claims use since Mar. 1, 1933.

Ser. No. 338,263. THE SORBEX COMPANY, Tulsa, Okla. Filed May 26, 1933.

SORBEX

For Medicinal Preparations Used in Treatment of Athlete's Foot, Ring Worm, Eczema, Dandruff, Mange, Insect Bites, and as an Insecticide.
Claims use since Apr. 10, 1933.

Ser. No. 338,297. WELD-TITE MANUFACTURING COMPANY, INC., Camden, N. J. Filed May 27, 1933.

WELD-TITE

For Motor Seal, Radiator Seal, and Boiler Compound.
Claims use since 1931.

Ser. No. 338,309. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Berkeley, Calif. Filed May 29, 1933.

COPOSIL

For Fungicides.
Claims use since Apr. 3, 1933.

Ser. No. 338,310. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Berkeley, Calif. Filed May 29, 1933.

DELMO

For Insecticidal, Germicidal, and Fungicidal Sprays.
Claims use since Feb. 22, 1933.

Ser. No. 338,311. CALIFORNIA SPRAY-CHEMICAL CORPORATION., Wilmington, Del., and Berkeley, Calif. Filed May 29, 1933.

KLEEN-O-CIL

For Insecticides, Fungicides, and Germicides.
Claims use since Mar. 15, 1933.

Ser. No. 338,312. MORRIS COHN, doing business as Pine-Odeur Products Company, Belleville, N. J. Filed May 29, 1933.



The drawing is lined for the purpose of shading only. No claim is made to the wording on the drawing except in the association shown.
For Bath Salts.
Claims use since June 22, 1932.

Ser. No. 338,324. THE LUZERNE PRODUCTS COMPANY, Hunlock Creek, Pa. Filed May 29, 1933.

KURAGON

For Medicinal Preparation for the Treatment of Gonorrhea, Gleet, and Kidney Disorders.
Claims use since Feb. 1, 1933.

Ser. No. 338,336. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed May 29, 1933.

CALTASE

For Digestant and Antacid.
Claims use since May 3, 1933.

Ser. No. 338,506. MADELINE SILBERMAN, doing business as Manikin Products, New York, N. Y. Filed June 3, 1933.

MANIKIN

For Beverage Made from Herbs Having a Laxative Effect and Having a Flavor Resembling Coffee or Tea.
Claims use since Apr. 21, 1933.

Ser. No. 338,556. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Berkeley, Calif. Filed June 6, 1933.

VAPOROL

For Insecticides, Germicides, and Fungicides.
Claims use since Apr. 29, 1933.

CLASS 11

Inks and Inking Materials

Ser. No. 335,184. OSCAR O. ANDERSON, doing business as Supreme Ink Company, Waterbury, Conn. Filed Feb. 23, 1933.

SUPREME

For Writing Ink.
Claims use since Mar. 8, 1932.

Ser. No. 338,845. QUILL INK CORPORATION, New York, N. Y. Filed June 14, 1933.

Quill

For Writing Ink.
Claims use since Feb. 1, 1932.

CLASS 12

Construction Materials

Ser. No. 331,056. ORVILLE V. MCGREW, doing business as McGrew Paint & Asphalt Co., Chicago, Ill. Filed Oct. 7, 1932.

Asphalt King

The word "Asphalt" is disclaimed apart from the trade mark as shown.
For Asphalt Sealing and Waterproofing Compounds.
Claims use since Apr. 2, 1932.

Ser. No. 335,076. STANDARD FUEL ENGINEERING COMPANY, Detroit, Mich. Filed Feb. 17, 1933.

ZERO

For Refractory Material in a Dry Form—Namely, High Temperature Cement, Refractory Bonding Material, and a Ground Grog Consisting of Crushed Refractory Brick, the Same Being in a Dry Form for Mixing with Other Ingredients at the Time of Use.
Claims use since Feb. 15, 1933.

Ser. No. 338,182. GODFREY L. CABOT, INC., Boston, Mass. Filed May 24, 1933.

CHARON

For Carbon Black for Use in the Manufacture of Artificial Stone and Concrete Products, Cast Stones, Sidewalks, all Cement and Concrete Products, Most Particularly, Concrete Roads.
Claims use since May 29, 1931.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 337,985. THE ALUMINUM COOKING UTENSIL COMPANY, New Kensington, Pa. Filed May 19, 1933.

Filtrator

For Base Metal Hollow Ware for Making and Serving Coffee.
Claims use since Apr. 22, 1933.

Ser. No. 337,986. THE ALUMINUM COOKING UTENSIL COMPANY, New Kensington, Pa. Filed May 19, 1933.

Early American

The word "American" is disclaimed apart from the mark as shown.
For Base Metal Hollow Ware for Cooking and Serving—Namely, Drip Coffee Pots.
Claims use since Nov. 25, 1931.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 338,761. TAYLOR-WHARTON IRON & STEEL COMPANY, High Bridge, N. J. Filed June 10, 1933.

TW

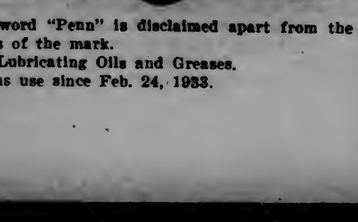
For Carbon and Alloy Steels, Particularly Manganese Steel in Cast, Forged, and Rolled Form.
Claims use since Apr. 5, 1933.

Ser. No. 338,833. CARBOLOY COMPANY, INC., Detroit, Mich. Filed June 14, 1933.

548

For Hard Metal Composition or Alloy Suitable for or for Use in Cutting Tools, Dies, and for Other Uses.
Claims use since Mar. 8, 1933.

Ser. No. 338,926. CARBOLOY COMPANY, INC., Detroit, Mich. Filed June 17, 1933.



For Hard Metal Composition or Alloy Suitable for or for Use in Cutting Tools, and for Other Uses.
Claims use since May 26, 1933.

CLASS 15

Oils and Greases

Ser. No. 331,451. THE WESTERN OIL AND FUEL COMPANY, Minneapolis, Minn. Filed Oct. 21, 1932.

HUSKY

For Gasoline, Kerosene, Motor Lubricants, Lubricating Oils, Lubricating Grease, and Fuel Oil.
Claims use since Sept. 30, 1932.

Ser. No. 337,097. SWAN-FINCH OIL CORPORATION, New York, N. Y. Filed Apr. 22, 1933.

SAFCO-PENN

The word "Penn" is disclaimed apart from the other features of the mark.
For Lubricating Oils and Greases.
Claims use since Jan. 19, 1933.

Ser. No. 337,098. SWAN-FINCH OIL CORPORATION, New York, N. Y. Filed Apr. 22, 1933.

SWAN PENN

The word "Penn" is disclaimed apart from the other features of the mark.
For Lubricating Oils and Greases.
Claims use since Feb. 24, 1933.

Ser. No. 337,641. MOTOR FUEL COMPANY, Habana, Cuba. Filed May 9, 1933.

MOFUCO

For Liquid Motor Fuel Comprising a Mixture of Hydrocarbon Oil and Alcohol.
Claims use since Apr. 30, 1932.

Ser. No. 338,083. DIXIE DISTRIBUTORS INCORPORATED, Ann Arbor, Mich. Filed May 22, 1933.

DIXOLINE

For Gasoline.
Claims use since April, 1932.

Ser. No. 338,245. EASTERN WAX PRODUCTS, INC., Brooklyn, N. Y. Filed May 26, 1933.

EPCO

For Wax Candles.
Claims use since May 1, 1933.

Ser. No. 338,495. JOHNSON OIL REFINING COMPANY, Chicago, Ill. Filed June 3, 1933.



No exclusive claim is made to the legend "70 Gasolene" apart from the mark shown on the drawing. The shading on the drawing is to indicate orange color.
For Gasolene.
Claims use since May 27, 1933.

Ser. No. 338,557. THE CANFIELD OIL COMPANY, Cleveland, Ohio. Filed June 6, 1933.

WIZARD PENN

The word "Penn" not being claimed apart from the mark shown in the drawing.
For Lubricating Oils and Greases.
Claims use since May 23, 1933.

CLASS 16

Paints and Painters' Materials

Ser. No. 337,009. THE AULT & WIBORG VARNISH WORKS, INC., New York, N. Y. Filed Apr. 21, 1933.

PROTEKTOL

For Varnishes, Treated Oils Used as Paint Vehicles, Bronzing Liquids, Synthetic Resin Compositions, Dry and Ready Mixed Paints, and Paint Enamels.
Claims use since 1910.

Ser. No. 337,184. FULD BROS., INC., Baltimore, Md. Filed Apr. 26, 1933.

VITOZONE

For Automobile Polish, Automobile Wax, Concrete Hardener in Paint Form, Floor Wax, Furniture Cream, Furniture Polish, Gymnasium Floor Seal, Liquid Wax, Paint Remover; Dry, Paste, and Ready-Mixed Paints; Paste Floor Wax, Paste Wax, Self-Polishing Liquid Wax, Tar Remover, Terrazzo Seal in Paint Form, Varnishes, Varnish Remover, Wax-Varnish and Wood Floor Seal.
Claims use since Nov. 1, 1932.

Ser. No. 338,302. ACME WHITE LEAD & COLOR WORKS, Detroit, Mich. Filed May 29, 1933.

Lin-x

For Prepared Paints—Namely, Semi-Paste Paints, Paste Paints, Flat Paints, Gloss Paints, Floor Paints, Varnishes, Color Varnishes, Paint and Varnish Enamels, Paint and Enamel Finishes, Lacquers, Waxes, and Polishes for Paint, Enamel, Varnish and Lacquer Surfaces.
Claims use since Nov. 10, 1932.

Ser. No. 338,623. STANDARD VARNISH WORKS, New York, N. Y. Filed June 7, 1933.

STAN-TOX

For Paint Enamels.
Claims use since Mar. 29, 1933.

Ser. No. 338,948. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed June 17, 1933.

NU-TRIM

For Paste for Polishing and Protecting Painted, Varnished, Lacquered, and Enameled Surfaces.
Claims use since June 6, 1933.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 336,977. THE BRYANT ELECTRIC COMPANY, Bridgeport, Conn. Filed Apr. 20, 1933.

DEFROST-O-CLOCK

The applicant disclaims the exclusive right to the words "Defrost" or "Clock," apart from the expression "Defrost-O-Clock."
For Clockwork Operated Electric Switches.
Claims use since Mar. 24, 1933.

Ser. No. 338,242. THE BLACK & DECKER MANUFACTURING COMPANY, Towson, Md. Filed May 26, 1933.

"VIBRO-CENTRIC"

For Electric Portable Valve Seat Grinders and Parts Thereof.
Claims use since May 10, 1933.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 336,878. RAY & COMPANY, Dallas, Tex. Filed Apr. 17, 1933.



For Geographical Puzzle.
Claims use since Apr. 10, 1933.

Ser. No. 338,535. NIFTY PRODUCTS, Chicago, Ill. Filed June 5, 1933.

SOLO-BALL

Applicant disclaims the word "Ball" except as associated with the word "Solo."
For Game of the Bandalore Type Played with a Ball and Cup.
Claims use since May 15, 1933.

Ser. No. 338,800. THE L. A. YOUNG COMPANY, Detroit, Mich. Filed June 12, 1933.

PLAY—BOY

For Wood and Metal Golf Clubs.
Claims use since June 1, 1933.

Ser. No. 338,801. THE L. A. YOUNG COMPANY, Detroit, Mich. Filed June 12, 1933.

MISS AMERICA

For Wood and Metal Golf Clubs.
Claims use since June 1, 1933.

Ser. No. 338,802. THE L. A. YOUNG COMPANY, Detroit, Mich. Filed June 12, 1933.

AMERICAN LADY

For Wood and Metal Golf Clubs.
Claims use since June 1, 1933.

Ser. No. 338,803. THE L. A. YOUNG COMPANY, Detroit, Mich. Filed June 12, 1933.

"SINCRO"

For Wood and Metal Golf Clubs.
Claims use since June 1, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 331,333. GELLMAN BROS., Minneapolis, Minn. Filed Oct. 18, 1932.



The lining used in the drawing is to indicate the color green. The words "Lightning Mincer" are disclaimed apart from the other features of the mark shown in the drawing.

For Household Multiple Disc Implement or Tool Adapted for Cutting, Shredding, and Otherwise Preparing Delicacies from Fruit, Vegetables, and Meats, and for Strip Slicing Dough for Preparing Noodles and the Like.

Claims use since Dec. 1, 1931.

Ser. No. 332,979. THE BARBASOL COMPANY, Indianapolis, Ind. Filed Dec. 12, 1932.



The mark consists of alternating red, white, and blue diagonal parallel stripes with a larger and four smaller rectangular blue fields thereon, each bearing the word "Barbasol" and two bearing in addition the applicant's name "The Barbasol Company", no claim being made to the exclusive use of the representation of the label. The drawing is lined to indicate the colors red and blue.

For Safety Razors and Blades.

Claims use since Dec. 1, 1932.

Ser. No. 333,278. THE BARBASOL COMPANY, Indianapolis, Ind. Filed Dec. 22, 1932.



The mark consists of alternating red, white, and blue diagonal parallel stripes with a larger rectangular blue field thereon bearing the word "Barbasol", and two smaller rectangular blue areas, and the applicant's name "The Barbasol Company" appearing on the representation of the razor blade, the three lug holes of which are colored red, no claim being made to the exclusive use of the representation of the carton and blade. The drawing is lined to indicate the colors red and blue.

For Razor Blades.

Claims use since Dec. 1, 1932.

Ser. No. 336,526. EX-CELL-O AIRCRAFT & TOOL CORPORATION, Detroit, Mich. Filed Apr. 7, 1933.



Applicant claims to be owner of the trade-mark and registry in Certificate No. 194,682, issued Feb. 3, 1925, to Ex-Cell-O Tool and Manufacturing Company.

For Automatic Screw Machine Products Such as Screws, Bolts, Shafts, Pins, Bushings, Clevis Pins, and Such Parts Which are Commonly Produced on Single or Multiple Spindle Automatic Screw Machines; Clasp Brake Pins and Bushings, Precision Aircraft Engine Parts, Internal Grinding Spindles, Diamond Boring Machines, Diesel Fuel Pump Parts, Drill Jig Bushings, Tool Detail Parts Such as Jaws, Rest Pads, Locating Pins, Shafts, Pins, Bushings, and in General Such Parts of Tools, Jigs, and Fixtures Which are Frequently Replaced or Usually Manufactured in Quantity Lots; Tool Grinding and Lapping Machine, Fuel Injection Systems Such as Pumps for Injecting Oil, Gasoline, or Other Fuel, Under Pressure, Into Internal Combustion Engines, and Including Therewith Means for Distributing the Fuel to Multiple Cylinders of an Engine, Complete with Necessary Controls, Etc.; Multiple Drilling Equipment Such as Machines for Drilling a Multiplicity of Holes Simultaneously or in Sequence but Requiring a Group of Drilling Spindles to Perform the Operation (Spindles May be Arranged Vertically, Horizontally, or at an Angle or any Combination Thereof, Also Includes Multiple Drill Heads Which Consist of a Group of Drill Spindles Supported and Driven from a Single Drill Spindle or Shaft; Sheet Metal Dies, Jigs and Fixtures, Tungsten Carbide Tipped Tools Such as Metal Cutting Tools, Such as Tool Bits for a Lathe, Drills, Reamers, Saws, Milling Cutters, Form Tools, Etc., the Body of Such Tools Being Made of Steel but the Portion of the Tools Adjacent the Cutting Edge Where the Wear is Most Pronounced and Destructive Being Made of Tungsten Carbide, Which is Usually Brazed into Place in the Body of the Tool; Inserted Tooth Milling Cutters, Standard Milling Cutters, Gear Shaper Cutters, Broaching Fixtures, Counterbore Sets, Special Tools Such as Arbors, Cutters, Reamers, Jigs, Fixtures, Dies, Etc., Which Are Not Usually Made in Any Quantity and Carried in Stock by the Manufacturer or Dealer as Standard Tools but are Designed and Built for One Special Purpose Only; Counterbores, Form Tools Such as Cutting Tools for Use on a Lathe or Screw Machine, the Cutting Edges of the Tools Usually Being Irregularly Shaped or "Formed" so as to Reproduce a Similarly "Formed" Piece of Work with One Pass of the Tool Either Over the Work or Into the Work as the Part Being Operated Upon May Require; Core Drills, Broaches and Reamers.

Claims use since January, 1920.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 338,216. THE CUNO ENGINEERING CORPORATION, Meriden, Conn. Filed May 25, 1933.

NOFABRIX

For Mechanical Fluid Straining and Filtering Apparatus and Parts Thereof, for Cleaning Oil, Gasoline, and Water Supply for Internal Combustion Engines and the Oil Supply for Fuel Burners, and Other Purposes.

Claims use since May 19, 1933.

Ser. No. 338,512. CONTINENTAL BLADE CORPORATION, Brooklyn, N. Y. Filed June 5, 1933.

Budget

For Razors and Razor Blades.

Claims use since May 25, 1933.

Ser. No. 338,597. BONNEY FORGE & TOOL WORKS, Allentown, Pa. Filed June 7, 1933.

ZENEL

For Wrenches.

Claims use since Aug. 31, 1932.

Ser. No. 338,620. OTTO ROTH, INC., Newark, N. J. Filed June 7, 1933.

COSMOPOLITAN

For Safety Razor Blades, Packaged or Unpackaged.

Claims use since June 5, 1933.

Ser. No. 338,671. TIP TOP RAZOR BLADE COMPANY, New York, N. Y. Filed June 8, 1933.



For Razor Blades of All Styles.

Claims use since Apr. 1, 1932.

Ser. No. 338,748. MINUTE SAFETY RAZOR CORPORATION, Newark, N. J. Filed June 10, 1933.

TEMPLAR

For Safety Razors and Safety Razor Blades.

Claims use since May 27, 1933.

Ser. No. 338,749. MINUTE SAFETY RAZOR CORPORATION, Newark, N. J. Filed June 10, 1933.

VELLUM

For Safety Razors and Safety Razor Blades.

Claims use since May 27, 1933.

Ser. No. 338,750. MINUTE SAFETY RAZOR CORPORATION, Newark, N. J. Filed June 10, 1933.

SENTINEL

For Safety Razors and Safety Razor Blades.

Claims use since May 27, 1933.

Ser. No. 338,765. AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y. Filed June 12, 1933.

CAMEO

For Safety Razors and Safety Razor Blades.

Claims use since May 26, 1933.

Ser. No. 338,767. CONTINENTAL BLADE CORPORATION, Brooklyn, N. Y. Filed June 12, 1933.

Corporal

For Razors and Razor Blades.

Claims use since May 27, 1933.

Ser. No. 338,768. CONTINENTAL BLADE CORPORATION, Brooklyn, N. Y. Filed June 12, 1933.

DIPLOMAT

For Razors and Razor Blades.

Claims use since May 31, 1933.

Ser. No. 338,769. CONTINENTAL BLADE CORPORATION, Brooklyn, N. Y. Filed June 12, 1933.

Solo

For Razors and Razor Blades.
Claims use since May 27, 1933.

Ser. No. 338,774. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed June 12, 1933.

Bluette

For Safety Razor Blades, Packaged or Unpackaged.
Claims use since June 8, 1933.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 312,738. THE SHELBY SALESBOOK COMPANY, Shelby, Ohio. Filed Mar. 30, 1931.

SHELBY KALKULATOR BOARD

Applicant hereby disclaims the word "Board" apart from the mark shown in the drawing.
For Slip or Paper Aligning Board for Use in Accounting and Similar Operations.
Claims use since December, 1930.

Ser. No. 337,746. LILLIAN Y. HUFFAKER, Los Angeles, Calif. Filed May 12, 1933.

Ticonometer

For Time Indicating Mechanisms Synchronized with Webs or the Like Containing Maps, Programs, Etc., and Parts Thereof.
Claims use since Nov. 18, 1932.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 337,963. WILHELM MOLGEDEI, doing business as Vibra Chain Company, New York, N. Y. Filed May 18, 1933.

Vibra

For Necklaces, Bracelets, Neck Chains, and Belts, Gaiters, Armlets, Made of or Plated with Precious Metal.
Claims use since Feb. 1, 1933.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 336,332. NEW JERSEY BRUSH MANUFACTURING CO., INC., Newton, N. J. Filed Apr. 1, 1933.

THE SIGN OF DOUBLE BARS

No claim is made to the representation of the goods apart from the mark shown in the drawing.
For Brushes of All Types—Namely, Scrub Brushes, Paint Brushes, Floor Brushes, Sweeping Brushes, Clothes Brushes, Nail Brushes, and Tooth Brushes.
Claims use since July 28, 1932.

CLASS 31

Filters and Refrigerators

Ser. No. 339,089. AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y. Filed June 22, 1933.

ANODE

For Refrigerator Shelves.
Claims use since June 20, 1933.

CLASS 32

Furniture and Upholstery

Ser. No. 326,579. COGHLAIN & LOISELLE, Kankakee, Ill. Filed Apr. 28, 1932.



For Pillows, Mattresses, and Cushions.
Claims use since Apr. 18, 1932.

CLASS 33

Glassware

Ser. No. 338,869. GLASS COFFEE BREWER CORP., Chicago, Ill. Filed June 15, 1933.

THERMEX

For Coffee Brewers—viz., a Decanter and Funnel of Glass Together with a Filter Device.
Claims use since June 7, 1933.

CLASS 35

Belting, Hose, Machinery Packing, and Nonmetallic Tires

Ser. No. 337,452. HENRY K. BARNES COMPANY, Boston, Mass. Filed May 4, 1933.

GAM-OIL

No claim is made to the word "Oil" apart from the mark as a whole.
For Leather Belting.
Claims use since July, 1903.

Ser. No. 337,625. SUPERIOR PISTON RING CO., INC., Detroit, Mich. Filed May 8, 1933.



Representation of an oil ring in the drawing is disclaimed apart from the mark as shown.
For Oil Rings Made of Metal for Engine Pistons.
Claims use since Mar. 22, 1932.

CLASS 36

Musical Instruments and Supplies

Ser. No. 337,067. MAURICIO BRAVO, doing business as Bravo Musical String Co., Chicago, Ill. Filed Apr. 22, 1933.



For Musical Strings for Fretted Musical Instruments.
Claims use since Feb. 12, 1929.

CLASS 37

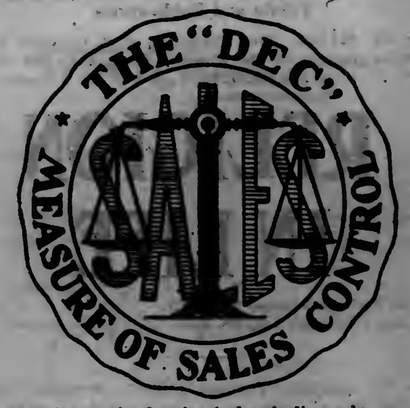
Paper and Stationery

Ser. No. 336,100. WEST VIRGINIA PULP & PAPER COMPANY, New York, N. Y. Filed Mar. 25, 1933.

BLENTEXT

For Printing Paper.
Claims use since Mar. 10, 1933.

Ser. No. 337,722. DOBSON ENGINEERING CORPORATION, New York, N. Y. Filed May 6, 1933.



The lining on the drawing is for shading only.
For Graph Paper Sold to the Trade as Such.
Claims use since Nov. 1, 1931.

Ser. No. 337,834. CAMPANA CORPORATION, Batavia, Ill. Filed May 15, 1933.

Campana's

For Cleaning Tissues.
Claims use since May 10, 1933.

Ser. No. 338,110. PRINT-O-PAK CORPORATION, Buffalo, N. Y. Filed May 22, 1933.

PRINT-O-PAK

For Apparatus for Issuing Gummed Strip Paper.
Claims use since Mar. 1, 1933.

Ser. No. 338,213. LOUIS M. BARMAN, Chicago, Ill. Filed May 25, 1933.

TYPEX

For Duplicating Stencils.
Claims use since May 1, 1933.

Ser. No. 338,859. AMERICAN TISSUE MILLS, Holyoke, Mass. Filed June 15, 1933.

HI-HAT

For Paper Napkins.
Claims use since Mar. 10, 1933.

CLASS 38

Prints and Publications

Ser. No. 324,262. THE METHODIST BOOK CONCERN, INC., doing business as The Abingdon Press, Inc., New York, N. Y. Filed Feb. 17, 1932.

RELIGION IN LIFE

For Periodical Issued Quarterly.
Claims use since Jan. 18, 1932.

Ser. No. 334,898. FRANCES SHEEHY, Portland, Oreg. Filed Feb. 11, 1933.

SYMPHONETTE

For Symphonic Theme Sheet in Leaflet Form Published from Time to Time.
Claims use since Jan. 12, 1933.

Ser. No. 336,065. APPAREL ARTS PUBLICATIONS, INC., Chicago, Ill. Filed Mar. 25, 1933.

Fabrics & Fashions

For Publication Issued Quarterly.
Claims use since Mar. 17, 1933.

Ser. No. 337,647. TWO-BOOKS MAGAZINES, INC., New York, N. Y. Filed May 9, 1933.

TWO-BOOKS

For Story Magazine.
Claims use since May 2, 1933.

Ser. No. 338,542. SECURITIES RESEARCH CORPORATION, Boston, Mass. Filed June 5, 1933.

FINANCIALYST

For Analytical Financial Charts.
Claims use since Dec. 5, 1932.

Ser. No. 338,698. LIFE MAGAZINE, INC., New York, N. Y. Filed June 9, 1933.

University

For Magazine Published Quarterly.
Claims use since May 25, 1933.

Ser. No. 338,864. THOMAS JAMES BURKE, doing business as Tom Burke, New Orleans, La. Filed June 15, 1933.

STAGE-DOOR JOHNNY

For Cartoon Strip Published Daily.
Claims use since June 5, 1933.

Ser. No. 338,900. KING FEATURES SYNDICATE, INC., New York, N. Y. Filed June 16, 1933.

Advice to Lovelorn

For Newspaper Columns.
Claims use since 1900.

Ser. No. 338,923. BELL PUBLISHING COMPANY, Temple, Tex. Filed June 17, 1933.

The Temple Daily Telegram

For Daily Newspaper.
Claims use since Nov. 19, 1907.

Ser. No. 338,963. THE BONNET-BROWN CORPORATION, Chicago, Ill. Filed June 19, 1933.

Alley Oop

For Comic Strip for Newspapers.
Claims use since May 17, 1932.

CLASS 39

Clothing

Ser. No. 327,621. LIBERTY LEATHER CORPORATION, St. Louis, Mo. Filed May 31, 1932.

LIBERTY OAK

No claim is made to the use of the word "Oak" apart from the mark as shown.
For Leather Soles for Shoes.
Claims use since Sept. 27, 1919.

Ser. No. 330,371. JOHNSON-STEPHENS & SHINKLE SHOE COMPANY, St. Louis, Mo. Filed Sept. 15, 1932.

Marlene

For Shoes Made of Leather, Fabric, and Combinations of Leather and Fabric.
Claims use since Sept. 9, 1931.

Ser. No. 331,313. MOOSEHEAD KNITTING CO., INC., Harrisburg, Pa. Filed Oct. 17, 1932.

NU-PLY

Applicant makes no exclusive claim to the word "Ply" except as shown in the drawing.
For Socks.
Claims use since Sept. 1, 1932.

Ser. No. 334,739. CINCINNATI TAILORING COMPANY, Cincinnati, Ohio. Filed Feb. 8, 1933.

W
CLOTHES OF CHARACTER

The words "Clothes of Character" are disclaimed apart from the mark as shown.
For Clothes, Comprising Men's and Boys' Coats, Vests, Trousers, Top Coats, and Overcoats.
Claims use since Jan. 1, 1933.

Ser. No. 336,318. IDALYNE M. BREMER, Los Angeles, Calif. Filed Apr. 1, 1933.

JOY

For Hand Protectors in the Form of Hand Coverings and for Gloves, the Goods Being Made from Leather, Rubber, Fabric, or Other Suitable Material, or Combinations of Such Materials.
Claims use since Feb. 15, 1933.

Ser. No. 336,899. BONWIT TELLER & CO., New York, N. Y. Filed Apr. 18, 1933.

Joylastique

For Corsets and Brassières and Combination Corsets and Brassières.
Claims use since Jan. 20, 1933.

Ser. No. 337,387. KRAMER BROTHERS, New York, N. Y. Filed May 1, 1933.

STRETCHABLES

For Hosiery.
Claims use since Jan. 15, 1933.

Ser. No. 337,480. SOCIÉTÉ A RESPONSABILITÉ LIMITÉE GABY-MONO, Paris, France. Filed May 4, 1933.

Gaby Mono
PARIS
16, Place Vendôme
AIX-les-BAINS-CANNES-DEAUVILLE

All of the wording appearing on the drawing, except "Gaby Mono" is hereby disclaimed.
For Ladies' Hats.
Claims use since 1925.

Ser. No. 337,644. RETAIL DEPARTMENT STORES OF AMERICA, INC., New York, N. Y. Filed May 9, 1933.

TRIBAR
TRIPLE VALUE

No claim is made to the words "Triple Value" apart from the mark shown in the drawing.
For Men's and Boys' Underwear of Knitted, Netted, and Textile Fabrics.
Claims use since Jan. 2, 1932.

Ser. No. 337,839. PAUL A. CORSO, Chicago, Ill. Filed May 15, 1933.

AMERICAN MADE
ROYAL SHOES
FOR ALL AMERICA

The descriptive expressions "American Made for All America" and "Smart Shoes" are disclaimed apart from the mark as shown on the drawing.
For Leather Shoes for Men.
Claims use since Feb. 12, 1933.

Ser. No. 337,897. STONE-TARLOW CO., INC., Brockton, Mass. Filed May 16, 1933.

FLEXLIFE

For Leather Shoes.
Claims use since Feb. 1, 1932.

Ser. No. 337,909. BEST & CO., INC., New York, N. Y. Filed May 17, 1933.

THE "ROYAL SCOT"

For Women's, Misses', and Children's Hats.
Claims use since May 11, 1933.

Ser. No. 338,540. REINGOLD HOSIERY CO., New York, N. Y. Filed June 5, 1933.



The word "Kantrun" is disclaimed apart from the mark as shown in the drawing.
For Ladies' and Children's Hosiery and Men's Hosiery.
Claims use since Sept. 20, 1932.

Ser. No. 338,570. MAX KASHINS CO., INC., New York, N. Y. Filed June 6, 1933.

SLI-DEEZ

For Men's, Women's, and Children's Bathrobes.
Claims use since May 1, 1933.

Ser. No. 338,591. ATLANTIC SPORTWEAR CO., INC., Asbury Park, N. J.. Filed June 6, 1933.



No claim is made to the representation of the jacket apart from the mark shown on the drawing.
For Leather Jackets, Sport Coats, and Overcoats for Men, Women, and Children.
Claims use since May 1, 1933.

Ser. No. 338,612. MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 7, 1933.

Bunnie Laine

For Women's and Children's Dresses, Suits, Jackets, Coats, and Pajamas and Lounging Robes.
Claims use since Oct. 1, 1932.

Ser. No. 338,666. SAM. SHAPIRO, New York, N. Y. Filed June 8, 1933.

Libbie

For Hosiery.
Claims use since Apr. 3, 1933.

Ser. No. 338,760. SNUGGLE RUG CO., Goshen, Ind. Filed June 10, 1933.

Snuggle Robe

Applicant disclaims any exclusive right to the word "Robe" apart from the mark shown.
For Bath Robes.
Claims use since Apr. 21, 1933.

Ser. No. 338,763. BAKER CLOTHES, INC., Philadelphia, Pa. Filed June 10, 1933.

Scotchmoors

For Men's and Boys' Suits.
Claims use since Nov. 22, 1929.

Ser. No. 338,798. UNITED HOSIERY MILLS CORPORATION, Chattanooga, Tenn. Filed June 12, 1933.

GIRLIE

For Hosiery.
Claims use since Apr. 14, 1933.

Ser. No. 339,049. TROJAN HOSIERY MILLS, INC., Indianapolis, Ind. Filed June 20, 1933.

WONDER
HEEL

No exclusive right in the word "Heel" is claimed apart from the mark as shown.
For Hosiery.
Claims use since Jan. 2, 1933.

Ser. No. 339,050. TROJAN HOSIERY MILLS, INC., Indianapolis, Ind. Filed June 20, 1933.

WONDER
TOE

No exclusive right in the word "Toe" is claimed apart from the mark as shown.
For Hosiery.
Claims use since Jan. 2, 1933.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 337,748. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed May 12, 1933.

FEATHERNAP

For Dress Shields.
Claims use since May 4, 1933.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 335,689. SAYLES FINISHING PLANTS, INC., Saylesville, R. I. Filed Mar. 15, 1933.

GLEN-TACHETÉ
PRINTS
SAYLES FINISHING PLANTS, INC.

No claim is made to the exclusive use of the words "Tacheté Prints" apart from the mark as shown.
For Piece Goods of Cotton, Linen, Silk, Rayon, and Woolen Mixtures.
Claims use since Feb. 23, 1933.

Ser. No. 336,432. GOLDSTEIN-WILKINS CORPORATION, New York, N. Y. Filed Apr. 5, 1933.

TAP ROOM
PRINTS

Applicant disclaims the right to the exclusive use of the word "Prints".
For Silk Dress Goods in the Piece.
Claims use since Apr. 1, 1933.

Ser. No. 336,433. GOLDSTEIN-WILKINS CORPORATION, New York, N. Y. Filed Apr. 5, 1933.

BEER GARDEN
PRINTS

Applicant disclaims the right to the exclusive use of the word "Prints".
For Silk Dress Goods in the Piece.
Claims use since Apr. 1, 1933.

Ser. No. 338,466. ERNEST SIMONS MFG. COMPANY, Port Chester, N. Y. Filed June 2, 1933.



The figure is fanciful.
For Sheets, Pillowcases, and Sheetings.
Claims use since February, 1933.

CLASS 43

Thread and Yarn

Ser. No. 338,483. BROWN COMPANY, Portland, Me., and Berlin, N. H. Filed June 3, 1933.

SOLKA

For Yarns and Threads.
Claims use since May 4, 1933.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 337,833. CAMPANA CORPORATION, Batavia, Ill. Filed May 15, 1933.

Campana's

For Manicure Sets.
Claims use since May 10, 1933.

Ser. No. 337,891. SECUROTEX COMPANY, Boston, Mass. Filed May 16, 1933.

SECUROTEX

For Sanitary Pad Holders.
Claims use since May 8, 1933.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 338,164. SOUTHERN FRUIT PRODUCTS COMPANY, Savannah, Ga. Filed May 23, 1933.

DRINK CONEO You'll Want More

No claim is made to the words "Drink" and "You'll Want More" apart from the mark shown in the drawing.
For Syrup for Making Non-Alcoholic Maltless Beverages.
Claims use since June, 1932.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 315,069. HUGH C. SULLIVAN, Frostproof, Fla. Filed May 26, 1931.

PELICAN PELICAN FLORIDA

No claim is made to the outline of the State of Florida apart from the mark shown, nor to the name "Florida".
For Canned Fruits.
Claims use since Nov. 7, 1910.

Ser. No. 328,016. PURE MILK ASSOCIATION, Chicago, Ill. Filed June 15, 1932.

PURE MILK ASS'N

For Milk.
Claims use since Mar. 1, 1926.

Ser. No. 331,484. FRANCO-AMERICAN BAKING CO., Los Angeles, Calif. Filed Oct. 22, 1932.

hi-jinks

For Bakery Products—Namely, Bread.
Claims use since Mar. 21, 1932.

Ser. No. 333,225. FRANK AND COMPANY, Milwaukee, Wis. Filed Dec. 20, 1932.

BACONETTES

For Sausages.
Claims use since Dec. 13, 1932.

Ser. No. 334,157. NORTHERN SEA FOOD COMPANY, Petersburg and Cordova, Alaska. Filed Jan. 20, 1933.

PEARL ISLE

For Canned Shell Fish.
Claims use since Oct. 30, 1932.

Ser. No. 335,553. DOMENICK SHERRILLO, doing business as Italian Sugo Co., St. Louis, Mo. Filed Mar. 8, 1933.

RED CHEEK BOY

For Sauce for Spaghetti and the Like.
Claims use since Mar. 4, 1933.

Ser. No. 335,564. KELLOGG COMPANY, Battle Creek, Mich. Filed Mar. 9, 1933.

BRISKIES

For Cereal Breakfast Foods.
Claims use since Feb. 14, 1933.

Ser. No. 336,990. MANEY MILLING COMPANY, Omaha, Nebr. Filed Apr. 20, 1933.

SAFEGUARD

For Wheat Flour.
Claims use since 1909.

Ser. No. 337,118. EUGENE A. GRUENBAUM, doing business as Tzucat Fruit Farms Corporation, Ravena, N. Y. Filed Apr. 24, 1933.

TZUCAT

For Preserved Fruit Confections.
Claims use since Jan. 1, 1933.

Ser. No. 337,392. MAROTTA & CELLA, Brooklyn, N. Y. Filed May 2, 1933.

PRINCIPE & PRINCIPESSA

For Olive Oil.
Claims use since July 1, 1932.

Ser. No. 337,629. WALLACE & MORLEY COMPANY, Bay Port, Mich. Filed May 8, 1933.

HURON

For Dry Beans.
Claims use since November, 1932.

Ser. No. 337,733. DAVIS & LAWRENCE CO., New York, N. Y. Filed May 12, 1933.

VANILEO

For Artificial Vanilla Flavoring for Food Purposes.
Claims use since 1912.

Ser. No. 337,740. FEDERAL MILL, INC., Lockport, N. Y. Filed May 12, 1933.

The word "Bread" apart from the mark as shown and the representation of the wrapper as such are disclaimed.
For Bread.
Claims use since Aug. 24, 1932.

Ser. No. 337,777. DWIGHT EDWARDS COMPANY, San Francisco, Calif. Filed May 13, 1933.

NOB HILL

For Coffee.
Claims use since Oct. 5, 1932.

Ser. No. 337,812. VIVIANO MACARONI MFG. CORP., Chicago, Ill. Filed May 13, 1933.

Vita-Mac

For Alimentary Pastes—Namely, Spaghetti, Macaroni, Egg Noodles.
Claims use since June, 1929.

Ser. No. 337,922. SAMUEL S. LERNER, doing business as Health Food Dairy Products Co., Chicago, Ill. Filed May 17, 1933.



No claim is made to the exclusive use of the words "Kefir" and "Cream" apart from the mark as shown.

For Food Product, Consisting of a Kefir Fermented Milk Derivative Produced by Mixing Together Skimmed Milk, Butter, and Cream, and Appropriately Treating the Same Fermentively.

Claims use since May 1, 1933.

Ser. No. 337,926. NATIONAL LICORICE COMPANY, Brooklyn, N. Y. Filed May 17, 1933.



The drawing is lined for yellow and red. No claim is made to the expression "Oriental Licorice" apart from the mark as shown, although applicant waives no common-law rights to this term.

For Licorice Candy.

Claims use since June, 1932.

Ser. No. 337,969. JOSEPH ARENA, doing business as Arena Brothers, San Francisco, Calif. Filed May 19, 1933.



No claim is made to the word "Brand".

For Olive Oil.

Claims use since August, 1922.

Ser. No. 338,055. MOLASKA PRODUCTS, INC., Cleveland, Ohio. Filed May 20, 1933.

MOLASKA

For Cane Molasses in Powder Form.

Claims use since Apr. 10, 1933.

Ser. No. 338,079. DICKINSON & Co., Chicago and Eureka, Ill. Filed May 22, 1933.

AUTUMN HARVEST

For Canned Vegetables.

Claims use since 1907.

Ser. No. 338,325. LOUIS MARKOWITZ, doing business as Markow Blood Purifier Co., San Diego, Calif. Filed May 29, 1933.



Applicant disclaims the words "Blood Purifier Co."

For Canned Soup.

Claims use since Mar. 1, 1933.

Ser. No. 338,383. UNITED PACKING CORPORATION, Los Angeles, Calif. Filed May 31, 1933.

CAL-JOY

For Canned Fruits, Canned Vegetables.

Claims use since May 11, 1933.

Ser. No. 338,567. G. F. HEUBLEIN & BRO., Hartford, Conn. Filed June 6, 1933.

MILSHIRE



For Canned Clam Chowder.

Claims use since May 15, 1933.

CLASS 47

Wines

Ser. No. 337,810. VIRGINIA DARE EXTRACT COMPANY, INC., Brooklyn, N. Y. Filed May 13, 1933.



Applicant disclaims the word "Sparkling" except in the association shown. The drawing is lined to indicate shades of red.

For Wines.

Claims use since Apr. 28, 1933.

Ser. No. 338,234. THEBONETT & Co., INC., Chicago, Ill. Filed May 25, 1933.

Moulin Rouge

For Champagnes and Wines.

Claims use since 1914.

Ser. No. 338,331. ANDERSON, DORSON & Co. LIMITED, London, England. Filed May 31, 1933.

VIVADOR

For Wines.

Claims use since Nov. 10, 1924.

Ser. No. 338,518. FRUIT INDUSTRIES, LTD., Los Angeles, Calif. Filed June 5, 1933.

Winehaven

For Wines.

Claims use since May 22, 1933.

Ser. No. 338,829. BISCEGLIA BROTHERS, San Jose, Calif. Filed June 14, 1933.

DEL MONTE

For Wines.

Claims use since Jan. 3, 1926.

Ser. No. 338,983. MONT-ROUGE WINE COMPANY, San Francisco, Calif. Filed June 19, 1933.

C B

For Wines.

Claims use since May 5, 1933.

Ser. No. 339,023. COMPANHIA GERAL DA AGRICULTURA DAS VINHAS DO ALTO DOURO, doing business as Real Companhia Dos Vinhos Do Porto, Royal Oporto Wine Company, Companhia Velha, and The Old Company, Oporto, Portugal. Filed June 20, 1933.

BRINDE

For Wines.

Claims use since 1928.

Ser. No. 339,024. COMPANHIA GERAL DA AGRICULTURA DAS VINHAS DO ALTO DOURO, doing business as Real Companhia Dos Vinhos Do Porto, Royal Oporto Wine Company, Companhia Velha, and The Old Company, Oporto, Portugal. Filed June 20, 1933.

DONA MARIA

For Wines.

Claims use since 1930.

Ser. No. 339,025. COMPANHIA GERAL DA AGRICULTURA DAS VINHAS DO ALTO DOURO, doing business as Real Companhia Dos Vinhos Do Porto, Royal Oporto Wine Company, Companhia Velha, and The Old Company, Oporto, Portugal. Filed June 20, 1933.

FIDALGO

For Wines.
Claims use since 1929.

CLASS 48

Malt Beverages and Liquors

Ser. No. 336,420. BERGHOFF BREWING CORPORATION, Fort Wayne, Ind. Filed Apr. 5, 1933. Under 10-year proviso.

Portmunder

For Malt Beverage with Not More Than the Legal Alcoholic Content.
Claims use since 1890.

Ser. No. 336,596. JOHN BARBEY, Reading, Pa., assignor to Barbey's Inc., Reading, Pa., a Corporation of Pennsylvania. Filed Apr. 10, 1933.

SUNSHINE

For Beer, Ale, Porter, and Stout.
Claims use since Apr. 7, 1933.

Ser. No. 337,087. NUEVA FABRICA DE HIELO, S. A., Habana, Cuba. Filed Apr. 22, 1933.



No claim is made to the words "Cerveza", "Cristal", and "Marka Registrada".
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Oct. 29, 1928.

Ser. No. 337,091. RIVERSIDE BREWING COMPANY, Chicago, and Riverside, Ill. Filed Apr. 22, 1933.

RIVERSIDE



The word "Riverside" is disclaimed apart from the mark as shown.
For Malt Beverages with Not More than the Legal Alcoholic Content.
Claims use since Apr. 19, 1933.

Ser. No. 337,016. GOLDEN WEST BREWING CO., Oakland, Calif. Filed May 17, 1933.

GLOW

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since July 1, 1925.

Ser. No. 337,917. GOLDEN WEST BREWING CO., Oakland, Calif. Filed May 17, 1933.

GOLDEN GLOW

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since July 1, 1925.

Ser. No. 337,918. GOLDEN WEST BREWING CO., Oakland, Calif. Filed May 17, 1933.

"It's the After Glow"

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since July 1, 1925.

Ser. No. 338,062. MARIO P. TRIBUNO, New York, N. Y. Filed May 20, 1933.

"BERVIN"

For Malt Beverages of Not More Than the Legal Alcoholic Content.
Claims use since May 16, 1933.

Ser. No. 338,215. BRITISH AMERICAN BREWING COMPANY, LIMITED, Windsor, Ontario, Canada. Filed May 25, 1933.

BLACK PIRATE ALE

No rights are asserted to the exclusive use of the word "Ale" which is disclaimed.
For Ales of Not More Than the Legal Alcoholic Content.
Claims use since 1927.

Ser. No. 338,235. THEONETT & CO., INC., Chicago, Ill. Filed May 25, 1933.



Moulin Rouge

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since 1914.

Ser. No. 338,335. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed May 29, 1933.

CHILCO

For Preparation for Chill-Proofing Beer and Other Malt Beverages.
Claims use since May 10, 1933.

Ser. No. 338,425. N. V. BEIERSCH-BIERBROUWERIJ "DE AMSTEL", Amsterdam, Netherlands. Filed June 1, 1933.



For Beer.
Claims use since January, 1901.

Ser. No. 338,475. AMERICAN BOTTLING, INC., Providence, R. I. Filed June 3, 1933.

Consumers

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since May 23, 1933.

Ser. No. 338,476. AMERICAN BOTTLING, INC., Providence, R. I. Filed June 3, 1933.



For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since May 23, 1933.

Ser. No. 338,952. TOLLEMACHE'S BREWERIES, LIMITED, Ipswich, England. Filed June 17, 1933.

TOLLY

For Ales.
Claims use since May 25, 1910.

Ser. No. 338,969. CRESTA BLANCA COMPANY, San Francisco, Calif. Filed June 19, 1933.

CRESTA BLANCA

For Cereal Malt Beverages Having not Over the Legal Alcoholic Content.
Claims use since May 5, 1933.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 335,588. VIVIAN VAUGHAN-JONES, doing business as Edward Vaughan-Jones, as Charles Day & Co., and as E. Vaughan-Jones, London, England. Filed Mar. 10, 1933.



For Spirits—Namely, Gin, Rum, and Whisky.
Claims use since Mar. 2, 1868.

Ser. No. 335,715. ARCHIBALD CAMPBELL, HOPE & KING LIMITED, Glasgow, Scotland. Filed Mar. 16, 1933.

BRAEMAR

For Whisky.
Claims use since Dec. 6, 1880.

Ser. No. 336,082. DUNVILLE & CO., LIMITED, Belfast, Northern Ireland. Filed Mar. 25, 1933. Under 10-year proviso.



For Old Irish Whisky.
Claims use since 1867.

Ser. No. 338,071. P. D. CARNEGIE & SONS, LTD., London, England. Filed May 22, 1933.



No claim is made to any of the words appearing on the drawing with the exception of "Carnegie's" and the name of applicant corporation.
For Whisky.
Claims use since July 11, 1930.

Ser. No. 338,072. P. D. CARNEGIE & SONS, LTD., London, England. Filed May 22, 1933.



No claim is made to the words "Liqueur", "Old Scotch Whisky", "London", and "Produce of Scotland", appearing on the drawing. The drawing is lined for shading only.
For Whisky.
Claims use since Sept. 24, 1925.

Ser. No. 338,275. BOULESTIN & Co., Cognac, France. Filed May 27, 1933. Under 10-year proviso.

BOULESTIN

Boulestin & Cie
COGNAC

For Brandy.
Claims use since May 1, 1853.

Ser. No. 338,276. BOULESTIN & Co., Cognac, France. Filed May 27, 1933. Under 10-year proviso.

BOULESTIN



The drawing is lined for shading only.
For Brandy.
Claims use since May 1, 1853.

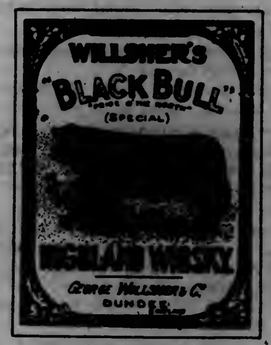
Ser. No. 338,527. CHAS. MACKINLEY & COMPANY, Leith, Scotland. Filed June 5, 1933.

MACKINLAY'S
V.O.B.
Old Scotch Whisky

DISTILLERS. LEITH. SCOTLAND.

The signature on the drawing is in the handwriting of a member of the firm. No claim is made to the words "Old Scotch Whisky", "Distillers", and "Leith, Scotland".
For Scotch Whisky.
Claims use since Nov. 22, 1910.

Ser. No. 338,588. GEORGE WILLSHER, Dundee, Angus, Scotland. Filed June 6, 1933.



No claim is made to the name "Willsher", and the words "Special Highland Whisky, Dundee, Scotland, Produce of Scotland" nor to the representation of a label, per se.
For Whisky.
Claims use since Mar. 28, 1923.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 337,899. VULCAN CORPORATION, Portsmouth, Ohio. Filed May 16, 1933.

RTHO-TRED

For Lasts.
Claims use since July 25, 1932.

Ser. No. 338,053. C. H. MASLAND & SONS, INC., Carlisle, Pa. Filed May 20, 1933.

LAYFLEX BACK

No claim is made to the word "Back" apart from the mark shown in the drawing.
For Rubber Backs for Rugs.
Claims use since Aug. 15, 1932.

Ser. No. 338,953. UNIVERSAL SEAL CAP CORPORATION, Hamden, Conn. Filed June 17, 1933.

PROTEXU

For Bottle Caps.
Claims use since June 1, 1933.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 25, 1933

304,921. MEN'S CLOTHING—NAMELY, MEN'S OVERCOATS AND MEN'S SUITS. FREDERICK LOESER & Co., INC., Brooklyn, N. Y.
Filed March 13, 1933. Serial No. 335,618. PUBLISHED MAY 16, 1933. Class 39.

304,922. WOMEN'S DRESSES AND BLOUSES. STORYK BROS., New York, N. Y.
Filed March 14, 1933. Serial No. 335,651. PUBLISHED MAY 16, 1933. Class 39.

304,923. HOSIERY. THE TEXTILE MILLS CORPORATION, High Point, N. C.
Filed March 14, 1933. Serial No. 335,654. PUBLISHED MAY 16, 1933. Class 39.

304,924. LIQUID USED FOR THE TREATMENT OF CORNS, BUNIONS, CALLOUSES. CARLOS J. DIAZ, doing business as Etna Chemical Company, New York, N. Y.
Filed March 14, 1933. Serial No. 335,632. PUBLISHED MAY 9, 1933. Class 6.

304,925. MEN'S SUITS. H. DAROFF & SONS, INC., Philadelphia, Pa.
Filed March 15, 1933. Serial No. 335,666. PUBLISHED MAY 16, 1933. Class 39.

304,926. MEN'S SUITS. H. DAROFF & SONS, INC., Philadelphia, Pa.
Filed March 15, 1933. Serial No. 335,667. PUBLISHED MAY 16, 1933. Class 39.

304,927. HOSIERY. HARRON HOSIERY COMPANY, Philadelphia, Pa.
Filed March 17, 1933. Serial No. 335,779. PUBLISHED MAY 16, 1933. Class 39.

304,928. MEN'S SUITS, OVERCOATS, AND TOPCOATS. RALEIGH HABERDASHER, INC., Washington, D. C.
Filed March 18, 1933. Serial No. 335,835. PUBLISHED MAY 16, 1933. Class 39.

304,929. HOSIERY. TANCRED HOSIERY MILLS, INC., New York, N. Y.
Filed March 18, 1933. Serial No. 335,837. PUBLISHED MAY 16, 1933. Class 39.

304,930. NEGLIGEE SHIRTS. THE B. V. D. COMPANY, INC., Baltimore, Md.
Filed March 17, 1933. Serial No. 335,760. PUBLISHED MAY 16, 1933. Class 39.

304,931. CHILDREN'S PAJAMAS. ACME UNDERWEAR CO. INC., New York, N. Y.
Filed March 21, 1933. Serial No. 335,915. PUBLISHED MAY 16, 1933. Class 39.

304,932. INTERNAL MEDICINE FOR ROUND AND HOOK WORMS, CATHARTICS, TONICS, AND FLEA POWDERS, ALL USED FOR CANINES. ISIDORE M. GOLDSTEIN, Jamaica, N. Y.
Filed February 16, 1933. Serial No. 335,024. PUBLISHED MAY 2, 1933. Class 6.

304,933. LADIES', MISSES', AND WOMEN'S DRESSES, HOUSE PAJAMAS, BEACH PAJAMAS, AND BATHROBES. MELLINS & MELLINS, INC., Brooklyn, N. Y.
Filed February 1, 1932. Serial No. 323,668. PUBLISHED MARCH 22, 1932. Class 39.

304,934. HOSIERY OF ALL KINDS, WOMEN'S LINGERIE, INCLUDING VESTS, COSTUME SLIPS, BLOOMERS, UNDERSUITS, BANDEAUX, STEPINS, CHEMISES, NIGHTGOWNS, COMBINATIONS, (INCLUDING VESTS AND BLOOMERS, BANDEAUX, AND CORSELETTES WITH PANTIE BOTTOMS AND GARTERS, AND BANDEAUX AND PANTIES), PAJAMAS, AND NEGLIGEES; AND MEN'S AND BOYS' UNDERSHIRTS, SHORTS, UNION SUITS, SHIRTS, AND PAJAMAS. REAL SILK HOSIERY MILLS, INC., Indianapolis, Ind.
Filed February 20, 1933. Serial No. 335,131. PUBLISHED MAY 9, 1933. Class 39.

304,935. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. ERIC COMPANY, INC., New York, N. Y.
Filed February 23, 1933. Serial No. 335,193. PUBLISHED MAY 2, 1933. Class 6.

304,936. TOILET ARTICLES. SYLVA-CROSS LABORATORIES, INC., New York, N. Y.
Filed February 23, 1933. Serial No. 335,220. PUBLISHED MAY 2, 1933. Class 6.

304,937. MEN'S SUITS, OVERCOATS, AND TOPCOATS. S. MARRANSKY AND SONS, INC., Philadelphia, Pa.
Filed March 30, 1933. Serial No. 336,225. PUBLISHED MAY 16, 1933. Class 39.

304,938. NATURAL AND REFINED BORIC ACID, REFINED BORAX, CARBONATE OF AMMONIUM, CARBONIC ACID SULPHATE OF AMMONIUM, AND PERBORATE OF SODIUM. SOCIETA BORACIFERA DI LARDERELLO, Florence, Italy.
Filed December 21, 1932. Serial No. 333,273. PUBLISHED MAY 9, 1933. Class 6.

304,939. LADIES' SPORT GARMENTS—NAMELY, DRESSES, SKIRTS, SUITS, JUMPERS, AND BLOUSES. THE S. KORACH COMPANY, Cleveland, Ohio.
Filed February 25, 1933. Serial No. 335,279. PUBLISHED MAY 9, 1933. Class 39.

304,940. CHEMICAL PREPARATIONS FOR USE IN DYEING AND PRINTING TEXTILES. H. A. METZ & Co., INC., New York, N. Y.
Filed February 25, 1933. Serial No. 335,282. PUBLISHED MAY 2, 1933. Class 6.

304,941. MOUTH WASH AND ANTISEPTIC POWDER USED AS DENTAL POWDER. CHARLES WINOKUR, Brooklyn, N. Y.
Filed FEBRUARY 27, 1933. Serial No. 335,340. PUBLISHED MAY 2, 1933. Class 6.

304,942. MEN'S, WOMEN'S, AND CHILDREN'S UNDERWEAR. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed February 28, 1933. Serial No. 335,847. PUBLISHED MAY 2, 1933. Class 39.

304,943. DEODORANT. LOUIS A. SABINI, New York, N. Y.
Filed February 28, 1933. Serial No. 335,869. PUBLISHED MAY 2, 1933. Class 6.

304,944. LADIES' UNDERGARMENTS—NAMELY, SLIPS, PANTIES, AND CHEMISES; LADIES' NIGHTGOWNS, AND LADIES' PAJAMAS. GARFINKEL & RITTER, New York, N. Y.
Filed March 1, 1933. Serial No. 335,896. PUBLISHED MAY 9, 1933. Class 39.

304,945. OINTMENT USED AS AN AID IN THE PAINLESS TWEEZING OF EYEBROWS. MAX SCHREIBMAN, New York, N. Y.
Filed March 1, 1933. Serial No. 335,404. PUBLISHED MAY 9, 1933. Class 6.

304,946. CHEMICAL PREPARATION IN POWDER FORM FOR USE FOR ATHLETE'S FOOT; FOR ACHING, TIRED, AND SWOLLEN FEET AND ANKLE JOINTS; FOR CALLOUSES, CRACKING BETWEEN THE TOES, AND ITCHING, AND FOR BAD ODOR. LAVATONE CHEMICAL COMPANY, Seattle, Wash.
Filed March 2, 1933. Serial No. 335,421. PUBLISHED MAY 9, 1933. Class 6.

304,947. MEN'S, WOMEN'S, GIRLS', AND BOYS' DRESS AND LINGERIE SHIRTS, PAJAMAS, DRAWERS AND UNDERSHIRTS, BATH ROBES, LOUNGING ROBES AND SMOKING JACKETS, NECKTIES AND MUFFLERS, SUITS AND OVERCOATS. SAKS & COMPANY, New York, N. Y.
Filed March 2, 1933. Serial No. 335,426. PUBLISHED MAY 9, 1933. Class 39.

304,948. PREPARATION USED AS A SEDATIVE AND ANTISPASMODIC. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed March 2, 1933. Serial No. 335,431. PUBLISHED MAY 9, 1933. Class 6.

304,949. PREPARATION FOR USE AS A UTEROSTYPTIC AND UTEROTONIC. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed March 2, 1933. Serial No. 335,433. PUBLISHED MAY 9, 1933. Class 6.

304,950. PREPARATION TO BE USED AS A SPECIFIC AGAINST GRANULOMA INGUINALE, BILHARZIASIS, AND OTHER PROTOZOAL INFECTIONS. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed March 2, 1933. Serial No. 335,434. PUBLISHED MAY 9, 1933. Class 6.

304,951. LIQUID WAX COMPOSITION FOR SEWING THREADS USED IN THE MANUFACTURE OF SHOES. GUEY AND HUMMEL, New York, N. Y.
Filed March 3, 1933. Serial No. 335,449. PUBLISHED MAY 9, 1933. Class 6.

304,952. CHEMICAL IN CRYSTAL FORM IDENTIFIED AS ORTHO HYDROXY 2, 6 DIAMINOPYRIDINE, ALSO KNOWN AS 2, 6 DIAMINOPYRIDINE MONO SALICYLATE, USED IN MEDICINES IN THE TREATMENT OF INFECTIOUS DISEASES. OSTEN CHEMICAL CORPORATION, New York, N. Y.
Filed March 6, 1933. Serial No. 335,461. PUBLISHED MAY 9, 1933. Class 6.

304,953. LACTIC ACID TABLET TO NORMALIZE THE COLON. THE KELP-OL LABORATORIES, INC., Los Angeles, Calif.
Filed March 6, 1933. Serial No. 335,509. PUBLISHED MAY 9, 1933. Class 6.

304,954. FUMIGANT. LETHELIN PRODUCTS COMPANY, Manhasset, N. Y.
Filed March 7, 1933. Serial No. 335,466. PUBLISHED MAY 9, 1933. Class 6.

304,955. ANTISEPTIC PREPARATION FOR THE TREATMENT OF THE HAIR AND SCALP. METRO-OIL, INC., St. Louis, Mo.
Filed March 6, 1933. Serial No. 335,516. PUBLISHED MAY 9, 1933. Class 6.

304,956. WOMEN'S SPORT DRESSES, SKIRTS, BLOUSES, AND SHORTS. ROYAL MANUFACTURING COMPANY, Los Angeles, Calif.
Filed March 6, 1933. Serial No. 335,523. PUBLISHED MAY 9, 1933. Class 39.

304,957. WOMEN'S DRESSES, SUITS AND BLOUSES. R. H. MACY & Co., INC., New York, N. Y.
Filed March 7, 1933. Serial No. 335,541. PUBLISHED MAY 16, 1933. Class 39.

304,958. HAIR TONIC. JOHN H. ALBRIGHT, Hanover, Pa.
Filed March 9, 1933. Serial No. 335,556. PUBLISHED MAY 9, 1933. Class 6.

304,959. PERFUME, TOILET WATER, FACE POWDER, BATH SALTS, TALCUM POWDER, ROUGE, LIP STICKS, DUSTING POWDER, SACHET, COLD CREAMS, POWDER AND ROUGE COMPACTS, LOTION FOR THE SKIN AND HAIR, BRILLIANTINE, BANDOLINE, AND VEGETAL. CADOLLE FRÈRES, SOCIÉTÉ A RESPONSABILITÉ LIMITÉE, Paris, France.
Filed March 9, 1933. Serial No. 335,562. PUBLISHED MAY 9, 1933. Class 6.

304,960. INSECTICIDES, INCLUDING FLY AND INSECT KILLER, FLY CHASER OR REPELLANT, PARTICULARLY FOR USE ON CATTLE. FURST-MCNESS COMPANY, Freeport, Ill.
Filed March 10, 1933. Serial No. 335,580. PUBLISHED MAY 9, 1933. Class 6.

304,961. DYES AND CHEMICALS EMPLOYED IN DYEING. GEIGY COMPANY, INC., New York, N. Y.
Filed March 13, 1933. Serial No. 335,612. PUBLISHED MAY 9, 1933. Class 6.

304,962. PUMPS FOR CONCRETE AND SIMILAR PLASTIC MATERIALS. CHAIN BELT COMPANY, Milwaukee, Wis.
Filed March 24, 1933. Serial No. 336,032. PUBLISHED MAY 16, 1933. Class 23.

304,963. WINES. MOUSSEC LIMITED, London, England.
Filed April 6, 1933. Serial No. 336,510. PUBLISHED MAY 16, 1933. Class 47.

304,964. TOY, SAID TOY COMPRISING A BOARD-LIKE HANDLE HAVING ONE END OF A RUBBER STRAND ATTACHED THERETO WITH A BALL OF SPONGE RUBBER ATTACHED TO THE OTHER END OF THE STRAND. ROZENA M. GIBSON, doing business as Fil-Back Company, High Point, N. C.
Filed April 10, 1933. Serial No. 336,610. PUBLISHED MAY 16, 1933. Class 22.

304,965. DOMESTIC HOT WATER HEATER. WILLIAMS OIL-O-MATIC HEATING CORPORATION, Bloomington, Ill.
Filed April 10, 1933. Serial No. 336,629. PUBLISHED MAY 16, 1933. Class 34.

304,966. PIPE, AND PARTICULARLY METAL PIPE. NATIONAL TUBE COMPANY, Pittsburgh, Pa.
Filed April 11, 1933. Serial No. 336,659. PUBLISHED MAY 16, 1933. Class 18.

304,967. MATCHES. JÖNKÖPINGS OCH VULCANS TÄNDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.
Filed April 11, 1933. Serial No. 336,650. PUBLISHED MAY 16, 1933. Class 9.

304,968. PORT WINE. C. N. KOPKE & Co. LIMITED, London, England.
Filed April 11, 1933. Serial No. 336,652. PUBLISHED MAY 16, 1933. Class 47.

304,969. TOY, SAID TOY COMPRISING A BOARD-LIKE HANDLE HAVING ONE END OF A RUBBER STRAND ATTACHED THERETO, WITH A BALL OF SPONGE RUBBER ATTACHED TO THE OTHER END OF THE STRAND. ROZENA M. GIBSON, doing business as Sock-It Company, High Point, N. C.
Filed April 10, 1933. Serial No. 336,611. PUBLISHED MAY 16, 1933. Class 22.

304,970. MALT BEVERAGE, WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. BERGHOFF BREWING CORPORATION, Fort Wayne, Ind.
Filed April 10, 1933. Serial No. 336,597. PUBLISHED MAY 16, 1933. Class 48.

304,971. WHISKY. SCOTIA DISTILLERS LIMITED, Glasgow, Scotland.
Filed April 4, 1933. Serial No. 336,404. PUBLISHED MAY 16, 1933. Class 49.

304,972. MATTRESSES. LANSBURGH & BRO., Washington, D. C.
Filed March 28, 1933. Serial No. 336,159. PUBLISHED MAY 16, 1933. Class 32.

304,973. CONCENTRATED EXTRACTS OF VEGETABLES IN TABLET FORM—I. E., MATERIALS EXTRACTED FROM EDIBLE, FRESH, GREEN-LEAF PLANT TISSUES CONCENTRATED, AND FORMED INTO TABLETS FOR USE IN THE TREATMENT OF DIETARY-DEFICIENCY TYPES OF THE FOLLOWING DISEASES: ANEMIA, ARTHRITIS, ULCERS, COLITIS, STERILITY, NEUROSIS, PYORRHEA, OPHTHALMIA, NEPHRITIS, MALNUTRITION, INDIGESTION, AND VARIOUS SKIN DISORDERS, AND OF VALUE IN COMBATING ACIDOSIS. GRIFFITH H. RIDDLE, Boston, Mass., assignor, by mesne assignments, to Salsterol Laboratories Inc., Boston, Mass., a Corporation of Massachusetts.
Filed February 4, 1933. Serial No. 334,627. PUBLISHED MAY 2, 1933. Class 6.

304,974. NATURAL MINERAL PRODUCT EXTRACTED WITH PURE WATER AND USED INTERNALLY FOR THE TREATMENT OF THE AILMENTS OF THE STOMACH, LIVER, KIDNEYS, AND BLADDER; ALSO FOR EXTERNAL USE FOR THE TREATMENT OF SORES, CUTS, BURNS, AND ABRASIONS; AS A DOUCHE AND AS A DENTIFRICE FOR THE CLEANING OF THE TEETH AND GUMS. ALBERT YODER, doing business as Radumac Mineral Co., Los Angeles, Calif.
Filed February 6, 1933. Serial No. 334,697. PUBLISHED MAY 9, 1933. Class 6.

304,975. HIGH TENSILE BRASS AND BRONZE LAVATORY HANDLES, BATHROOM SOAP DISHES, FLUSH VALVE HANDLES, AND ESCUTCHEONS. TITAN METAL MANUFACTURING COMPANY, Bellefonte, Pa.
Filed February 10, 1933. Serial No. 334,852. PUBLISHED MAY 16, 1933. Class 13.

304,976. HIGH TENSILE BRASS AND BRONZE LAVATORY HANDLES, BATHROOM SOAP DISHES, FLUSH VALVE HANDLES, AND ESCUTCHEONS. TITAN METAL MANUFACTURING COMPANY, Bellefonte, Pa.
Filed February 10, 1933. Serial No. 334,853. PUBLISHED MAY 16, 1933. Class 13.

304,977. MEDICINAL PREPARATION FOR THE TREATMENT OF SOUR AND ACID STOMACH AND HEARTBURN DUE TO GASTRIC HYPERACIDITY. THERESA C. MAREK, Allentown, Pa.
Filed February 11, 1933. Serial No. 334,881. PUBLISHED MAY 2, 1933. Class 6.

304,978. HAND LOTIONS, FACE LOTIONS, PERFUMES, BRILLIANTINE, FACE CREAMS, EYE SHADOW, EYE LASH GROWER, SHAMPOO, DEODORANT, DEPILATORY, ROUGE, NAIL POLISH, LIQUID FOR APPLICATION TO FINGER NAILS FOR THE REMOVAL OF POLISH THEREOF, EYE LASH DRESSING, HAIR WAVING FLUID, AND FACE POWDERS. BENJAMIN ANSEHL, doing business as Benjamin Ansehl Co., St. Louis, Mo., assignor to The Benjamin Ansehl Company, University City, Mo., a Corporation of Missouri.
Filed February 13, 1933. Serial No. 334,900. PUBLISHED MAY 9, 1933. Class 6.

304,979. COSMETICS. NATURA, INC., Seattle, Wash.
Filed February 13, 1933. Serial No. 334,926. PUBLISHED MAY 9, 1933. Class 6.

304,980. UNDERWEAR OF WOVEN AND TEXTILE FABRICS—NAMELY SHIRTS, DRAWERS, AND UNION SUITS, PAJAMAS, CHILDREN'S WAIST SUITS, AND ATHLETIC OUTER CLOTHING—NAMELY, ATHLETIC SHIRTS AND RUNNING PANTS, BATHING SUITS, SWEATERS, AND NEGLIGEE SHIRTS. THE B. V. D. COMPANY, INC., Baltimore, Md.
Filed March 25, 1933. Serial No. 336,067. PUBLISHED MAY 16, 1933. Class 39.

304,981. FIRE EXTINGUISHING APPARATUS COMPRISING CONTAINERS OF A LIQUID FIRE EXTINGUISHING MEDIUM DISCHARGED BY THE PRESSURE OF A GAS. WALTER KIDDE & COMPANY, INC., New York, N. Y.
Filed March 30, 1933. Serial No. 336,222. PUBLISHED MAY 16, 1933. Class 23.

304,982. MINERAL INGREDIENT FOR MIXING WITH DAIRY FEEDS, POULTRY FEEDS, AND LIVE STOCK FEEDS TO SUPPLY DIGESTIBLE MINERALS IN THE FEEDS. THE USIKO MILLING COMPANY, Cincinnati, Ohio.
Filed February 2, 1933. Serial No. 334,584. PUBLISHED MAY 9, 1933. Class 6.

304,983. BRAKE LININGS. KEASBEY & MATTISON COMPANY, Ambler, Pa.
Filed March 25, 1933. Serial No. 336,088. PUBLISHED MAY 16, 1933. Class 35.

304,984. DANCE SETS, CHEMISES, PANTIES, SLIPS, AND GOWNS ALL IN THE NATURE OF UNDERGARMENTS MADE OF SILK AND SILK MIXTURES. BETTY LEVISON UNDERGARMENT CO., INC., New York, N. Y.
Filed March 23, 1933. Serial No. 336,010. PUBLISHED MAY 16, 1933. Class 39.

304,985. STEEL STAMPS AND METAL MARKING DEVICES. MARKWELL STAMP CO., Greenfield, Mass.
Filed November 16, 1932. Serial No. 332,194. PUBLISHED FEBRUARY 7, 1933. Class 23.

304,986. ASTRINGENTS, ASTRINGENT CERATES, BLEACH AND BEAUTY CREAMS, ETC. CARLOVA, INC., New York and Binghamton, N. Y.
Filed November 17, 1932. Serial No. 332,225. PUBLISHED MAY 2, 1933. Class 6.

304,987. WATERPROOFED TEXTILE FABRICS. J. MANDLEBERG & COMPANY LIMITED, Manchester, England.
Filed November 29, 1932. Serial No. 332,590. PUBLISHED MAY 16, 1933. Class 50.

304,988. SAFETY RAZORS AND BLADES. THE BARBASOL COMPANY, Indianapolis, Ind.
Filed December 7, 1932. Serial No. 332,830. PUBLISHED JANUARY 24, 1933. Class 23.

304,989. SAFETY RAZOR BLADES. TRIANGLE MECHANICAL LABORATORIES CORPORATION, Brooklyn, N. Y.
Filed December 10, 1932. Serial No. 332,968. PUBLISHED MAY 16, 1933. Class 23.

304,990. AUTOMATIC SPRINKLERS OF THE WATERFLOW TYPE, AUTOMATIC SPRINKLER SYSTEMS OF THE WATERFLOW TYPE, WATERFLOW ALARM VALVES AND PLAIN DRY PIPE VALVES, ALL FOR FIRE EXTINGUISHING PURPOSES. GLOBE AUTOMATIC SPRINKLER COMPANY, Philadelphia, Pa.
Filed November 15, 1932. Serial No. 332,145. PUBLISHED MAY 16, 1933. Class 13.

304,991. MEDICAL PREPARATION FOR EPILEPSY AND KINDRED AILMENTS. KETURAH BREVOORT, Fort Worth, Tex.
Filed November 7, 1932. Serial No. 331,957. PUBLISHED MAY 2, 1933. Class 6.

304,992. MEDICINE FOR EXTERNAL HUMAN USE, FOR THE TREATMENT OF RHEUMATISM, SCIATICA, AND SIMILAR AILMENTS. GEORG HÄSEMANN, Bremen, Germany.
Filed October 27, 1932. Serial No. 331,616. PUBLISHED MAY 2, 1933. Class 6.

304,993. APPLIANCES FOR USE IN SUPPORTING AND MAINTAINING DRAPED CREPE PAPER AND THE LIKE FOR WINDOW DISPLAY. THE LOCKONA DISPLAY APPLIANCE CORPORATION, Jersey City, N. J.
Filed September 30, 1932. Serial No. 330,875. PUBLISHED MAY 16, 1933. Class 50.

304,994. REMOVABLE GUARDS OR BARS FOR PREVENTING ACCESS THROUGH OPEN DOORS, WINDOWS, OR THE LIKE. SHUR-LOC WINDOW GUARD CORP., New York, N. Y.
Filed August 17, 1932. Serial No. 329,609. PUBLISHED MAY 16, 1933. Class 18.

304,995. PICTURES, MODELS, AND ADVERTISING INDICIA SOLD AS A UNIT AND USED AS ADVERTISING EXHIBITS. JENTER EXHIBITS, INC., New York, N. Y.
Filed May 25, 1932. Serial No. 327,540. PUBLISHED MAY 16, 1933. Class 50.

304,996. RED OIL. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio.
Filed May 20, 1932. Serial No. 327,287. PUBLISHED MAY 2, 1933. Class 6.

304,997. CHEMICAL PREPARATIONS IN LIQUID AND OINTMENT FORM FOR THE TREATMENT OF HAIR, SKIN, AND SCALP; HAIR WASHES; PREPARATIONS IN LIQUID AND OINTMENT FORM FOR THE TREATMENT OF CALLOUS FEET AND BUNIONS, AND MOUTH WASHES. NELLIE SILVERSTEIN, doing business as Vi-Vu Products, New York, N. Y.
Filed April 13, 1932. Serial No. 326,059. PUBLISHED MAY 9, 1933. Class 6.

304,998. RAZORS AND RAZOR BLADES. SEGAL SAFETY RAZOR CORPORATION, New York, N. Y.
Filed April 5, 1932. Serial No. 325,831. PUBLISHED MAY 16, 1933. Class 23.

304,999. CLEANSING CREAM, COLD CREAM, FOUNDATION CREME, SKIN AND TISSUE CREAM, ASTRINGENT, ROUGE, AND LIPSTICK. THE ARMAND COMPANY, Des Moines, Iowa.
Filed March 25, 1932. Serial No. 325,452. PUBLISHED MAY 2, 1933. Class 6.

305,000. PHARMACEUTICAL PREPARATION FOR USE AS AN ANALGESIC-SEDATIVE. JOSEPH H. DE GIORGI, doing business as The Unguol Pharmacal Co., Syracuse, N. Y.
Filed January 27, 1933. Serial No. 334,388. PUBLISHED MAY 2, 1933. Class 6.

305,001. LADIES' UNDERGARMENTS — NAMELY, SLIPS. GARFINKEL & RITTER, New York, N. Y.
Filed January 26, 1933. Serial No. 334,357. PUBLISHED MAY 9, 1933. Class 39.

305,002. SENSITIZED CINEMATOGRAPHIC AND PHOTOGRAPHIC FILMS. ILFORD, LIMITED, Ilford, England.
Filed December 27, 1932. Serial No. 333,391. PUBLISHED MARCH 28, 1933. Class 26.

305,003. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT—NAMELY, BEER, ALE, STOUT, BOCK, PILSENER, WUERZBURGER, AND PORTER, STOCK ALE, INDIA PALE ALE, SPARKLING ALE, AND LAGER BEER. THE WEST END BREWING CO., Utica, N. Y.
Filed December 28, 1932. Serial No. 333,344. PUBLISHED MAY 16, 1933. Class 48.

305,004. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT—NAMELY, BEER, ALE, STOUT, BOCK, PILSENER, WUERZBURGER, AND PORTER, STOCK ALE, INDIA PALE ALE, SPARKLING ALE, AND LAGER BEER. THE WEST END BREWING CO., Utica, N. Y.
Filed December 28, 1932. Serial No. 333,343. PUBLISHED MAY 16, 1922. Class 48.

305,005. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT—NAMELY, BEER, ALE, STOUT, BOCK, PILSENER, WUERZBURGER AND PORTER, EXPORT BEER, STOCK ALE, INDIA PALE ALE, SPARKLING ALE, AND LAGER BEER. SENECA FOOD PRODUCTS CORPORATION, Utica, N. Y.
Filed December 28, 1932. Serial No. 333,336. PUBLISHED MAY 16, 1933. Class 48.

305,006. MINERAL PIGMENTS FOR USE IN THE MANUFACTURE OF PAINTS, RUBBER, AND PLASTIC COMPOSITIONS. ST. JOSEPH LEAD COMPANY, New York, N. Y.
Filed February 15, 1933. Serial No. 335,008. PUBLISHED MAY 2, 1933. Class 6.

305,007. SHOW-CASES AND CABINETS FOR THE DISPLAY AND SALE OF MERCHANDISE. ERIE METER SYSTEMS, INCORPORATED, Erie, Pa.
Filed March 24, 1933. Serial No. 336,039. PUBLISHED MAY 16, 1933. Class 32.

305,008. MEDICINAL PREPARATION FOR USE IN THE TREATMENT OF HEADACHES, NEURALGIA, COLDS, DYSMENORRHEA, COUGHS, CROUP, BRONCHITIS, MUSCULAR ACHES, AND CONGESTION. THE CAPUDINE CHEMICAL COMPANY, Raleigh, N. C.
Filed February 16, 1933. Serial No. 335,016. PUBLISHED MAY 9, 1933. Class 6.

305,009. WOOLEN PIECE GOODS, SILK PIECE GOODS, COTTON PIECE GOODS, LINEN PIECE GOODS, AND PIECE GOODS MADE OF RAYON AND MIXTURES THEREOF, AND HOUSEHOLD LINENS—NAMELY, NAPKINS, TOWELS, TABLE SCARVES, AND TABLE CLOTHS. EDWARD HIBTENSTEIN, New York, N. Y.
Filed February 2, 1933. Serial No. 334,563. PUBLISHED MAY 2, 1933. Class 42.

305,010. MINERAL PREPARATION IN LIQUID FORM FOR USE AS A TONIC IN THE TREATMENT OF RHEUMATIC CONDITIONS, NEURITIS, DIGESTIVE DISTURBANCES, BLADDER AND KIDNEY DISORDERS, AND GENERAL DEBILITY; AND ALSO AS AN ASTRINGENT FOR EXTERNAL APPLICATION IN THE SAID LIQUID FORM AND AS AN INGREDIENT OF VARIOUS DENTIFRICES AND COSMETICS. HARRY A. HAMISH, doing business as Mineral Concentrates Company, Portland, Oreg.
Filed January 30, 1933. Serial No. 334,462. PUBLISHED MAY 9, 1933. Class 6.

305,011. NASAL INHALENT. THE RINEX LABORATORIES COMPANY, Cleveland, Ohio.
Filed January 27, 1933. Serial No. 334,423. PUBLISHED MAY 2, 1933. Class 6.

305,012. PHARMACEUTICAL PREPARATION FOR USE AS A COUNTER-IRRITANT AND LOCAL ANÆSTHETIC. JOSEPH H. DE GIORGI, doing business as The Unguol Pharmacal Co., Syracuse, N. Y.
Filed January 27, 1933. Serial No. 334,389. PUBLISHED MAY 2, 1933. Class 6.

305,013. PERMANENT-WAVE HAIR PADS FOR HAIR WAVING APPARATUS. WEAVER JACKSON COMPANY, Los Angeles, Calif.
Filed January 4, 1933. Serial No. 333,646. PUBLISHED MAY 16, 1933. Class 44.

305,014. HAIR TONICS, BAY RUM, SKIN CREAM, HAIR RESTORER, LILAC TOILET WATER, EAU DE QUININE, MINERAL OIL FOR THE HAIR, RUBBING ALCOHOL, COLD CREAM, WITCH HAZEL, AND TOOTH PASTE. LESMA PRODUCTS CO. INC., New York, N. Y.
Filed January 25, 1933. Serial No. 334,313. PUBLISHED MAY 9, 1933. Class 6.

305,015. HAIR TONIC. RO-LAN COMPANY, Portland, Oreg.
Filed January 23, 1933. Serial No. 334,267. PUBLISHED MAY 2, 1933. Class 6.

305,016. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. DU BOIS BREWING CO., Du Bois, Pa.
Filed January 20, 1933. Serial No. 334,146. PUBLISHED MAY 16, 1933. Class 48.

305,017. TOILET ACCESSORIES—NAMELY, COSMETICS INCLUDING FACE CREAMS, LIPSTICK, ROUGE, AND FACE POWDER. HORTENSE V. LEDERER, doing business as The Lucky Charm Studios, Chicago, Ill.
Filed January 18, 1933. Serial No. 334,064. PUBLISHED MAY 2, 1933. Class 6.

305,018. MEDICINAL PREPARATIONS, CONTAINING DESERT HERBS FOR THE TREATMENT OF BLOOD DISORDERS, SUCH AS RHEUMATISM, ARTHRITIS, AND NEURITIS; GLANDULAR DISORDERS, ASTHMA, HAY FEVER, DIGESTIVE DISORDERS; NERVOUS, GASSED OR SOUR STOMACH OR LIGHT INDIGESTION; SIMPLE HEADACHES, MUSCULAR ACHES, HYPERACIDITY, LIVER DISTURBANCES, CONSTIPATION, GALL STONES. ALFRED E. DRAKE, doing business as Erb-o-Des Products Co., Los Angeles, Calif.
Filed January 9, 1933. Serial No. 333,760. PUBLISHED MAY 9, 1933. Class 6.

305,019. REDUCING CREAMS AND ASTRINGENTS. ALICE V. VEAZEY, doing business as Form-A-Bella Laboratory, New Orleans, La.
Filed February 28, 1933. Serial No. 335,375. PUBLISHED MAY 2, 1933. Class 6.

305,020. PLUMBING AND STEAM FITTING VALVES AND VALVE PARTS. JENKINS BROS., New York, N. Y.
Filed February 27, 1933. Serial No. 335,324. PUBLISHED MAY 16, 1933. Class 13.

305,021. PLUMBING AND STEAM FITTING VALVES AND VALVE PARTS. JENKINS BROS., New York, N. Y.
Filed February 27, 1933. Serial No. 335,323. PUBLISHED MAY 16, 1933. Class 13.

305,022. OIL HEATING STOVES, GASOLINE LANTERNS, AND GRAVITY AND WIND ACTUATED ROOF VENTILATORS MADE OF STEEL. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed February 25, 1933. Serial No. 335,302. PUBLISHED MAY 16, 1933. Class 34.

304,023. TOOTHPASTE. BRISTOL-MYERS COMPANY, New York, N. Y.
Filed February 23, 1933. Serial No. 335,186. PUBLISHED MAY 2, 1933. Class 6.

305,024. HAIR TONICS. A. LOMBARDO & SON, Baltimore, Md.
Filed February 21, 1933. Serial No. 335,166. PUBLISHED MAY 2, 1933. Class 6.

305,025. POISON IN PASTE FORM FOR VERMIN AND INSECTS. STEARNS' ELECTRIC PASTE COMPANY, INC., Chicago, Ill.
Filed February 16, 1933. Serial No. 335,039. PUBLISHED MAY 9, 1933. Class 6.

305,026. MEDICINAL PREPARATION FOR SYPHILIS. THE CENTRAL PHARMACAL COMPANY, Seymour, Ind.
Filed February 23, 1933. Serial No. 335,190. PUBLISHED MAY 2, 1933. Class 6.

305,027. NAIL CLIPPERS. THE H. C. COOK COMPANY, Ansonia, Conn.
Filed March 22, 1933. Serial No. 335,956. PUBLISHED MAY 16, 1933. Class 44.

305,028. BASE METAL EGG COOKERS. THE ENTERPRISE ALUMINUM COMPANY, Massillon, Ohio.
Filed March 18, 1933. Serial No. 335,904. PUBLISHED MAY 16, 1933. Class 13.

305,029. JIG SAW PUZZLES. SWELLELEGANTS JIG-CARTOON CO., New York, N. Y.
Filed March 20, 1933. Serial No. 335,896. PUBLISHED MAY 16, 1933. Class 22.

305,030. WASHBOARDS. NATIONAL WASHBOARD COMPANY, Chicago, Ill.
Filed March 17, 1933. Serial No. 335,787. PUBLISHED MAY 16, 1933. Class 24.

305,031. A FORTUNE TELLING GAME. SAMUEL S. BLOOM, Philadelphia, Pa.
Filed March 16, 1933. Serial No. 335,710. PUBLISHED MAY 16, 1933. Class 22.

305,032. DENTAL INVESTMENT MATERIAL FOR USE IN DENTAL PRACTICE. SCHERING CORPORATION, New York, N. Y.
Filed March 15, 1933. Serial No. 335,691. PUBLISHED MAY 16, 1933. Class 44.

305,033. METAL FENCING. RED TOP STEEL POST COMPANY, Chicago, Ill.
Filed March 15, 1933. Serial No. 335,688. PUBLISHED MAY 16, 1933. Class 13.

305,034. KNITTING MACHINERY—NAMELY, LOOPERS AND ATTACHMENTS THEREFOR, TURNING AND PRESSING MACHINERY FOR TEXTILE FABRICS AND ATTACHMENTS THEREFOR, AND SEWING MACHINE ATTACHMENTS. THE BEATTIE MANUFACTURING CO., Cohoes, N. Y.
Filed March 8, 1933. Serial No. 335,545. PUBLISHED MAY 16, 1933. Class 23.

305,035. CARBONATED WATERS. ARTHUR D. CHAMPLIN, Providence, R. I.
Filed March 7, 1933. Serial No. 335,540. PUBLISHED MAY 16, 1933. Class 45.

305,036. DENTAL IMPRESSION MATERIAL. HARRY J. BOSWORTH COMPANY, Chicago, Ill.
Filed March 3, 1933. Serial No. 335,443. PUBLISHED MAY 16, 1933. Class 44.

305,037. PLUMBING, HOT WATER, STEAM, AND VAPOR HEATING, AND STEAM FITTING, FIXTURES AND SUPPLIES. EDWARD PEARL, Philadelphia, Pa.
Filed March 1, 1933. Serial No. 335,403. PUBLISHED MAY 16, 1933. Class 13.

305,038. ASTRINGENTS AND MEDICATED WASHES OR LOTIONS. EDWIN W. MALONE, doing business as Complexion Companion Company, Los Angeles, Calif.
Filed February 23, 1932. Serial No. 324,388. PUBLISHED MAY 9, 1933. Class 6.

305,039. FACE POWDER. BEN LEVY CO., Boston, Mass.
Filed September 21, 1931. Serial No. 319,253. PUBLISHED MAY 2, 1933. Class 6.

305,040. WALL SOAP DISHES, GRAB RAILS, TOOTH BRUSH HOLDERS, TUMBLER HOLDERS, TOWEL BARS, HOOKS, GLASS BATHROOM SHELVES, TOILET PAPER HOLDERS, SPONGE HOLDERS, SAFETY RAZOR BLADE SAFES AND DISCARDS AND COMBINATIONS THEREOF. GOLCO SANITARY SYSTEM, INC., Philadelphia, Pa.
Filed January 21, 1932. Serial No. 323,240. PUBLISHED MAY 16, 1933. Class 13.

305,041. SYNTHETIC CASEIN. THE GLIDDEN COMPANY, Cleveland, Ohio.
Filed November 19, 1931. Serial No. 321,281. PUBLISHED MARCH 1, 1932. Class 6.

305,042. SKIN LUBRICATING PREPARATION FOR ADDITION TO SHAVING LATHER ON THE FACE. THE AD-EZ COMPANY, Cleveland, Ohio.
Filed September 15, 1931. Serial No. 319,054. PUBLISHED JUNE 21, 1932. Class 6.

305,043. TOP-CYLINDER LUBRICANT. LUBAL, INC., Columbus, Ohio.
Filed August 17, 1931. Serial No. 318,122. PUBLISHED MAY 9, 1933. Class 15.

305,044. METAL SHINGLES, METAL LATHS, METAL CORNERS, METAL CORNER BEADS, STRUCTURAL CHANNELS, AND STRUCTURAL TUBULAR FORMS. PENN METAL COMPANY, Boston, Mass.
Filed November 22, 1932. Serial No. 332,383. PUBLISHED MAY 2, 1933. Class 12.

305,045. HOT LIME. STE. GENEVIEVE LIME & QUARRY COMPANY, St. Louis, Mo.
Filed November 22, 1932. Serial No. 332,385. PUBLISHED MAY 2, 1933. Class 12.

305,046. CUP GREASE, GASOLINE, LUBRICATING AND FUEL OILS. WAGGONER REFINING COMPANY, INCORPORATED, Electra, Tex.
Filed December 7, 1932. Serial No. 332,863. PUBLISHED MAY 9, 1933. Class 15.

305,047. PLASTIC AND LIQUID WATERPROOFING COATINGS OTHER THAN PAINTS USED FOR WATERPROOFING CONSTRUCTION MATERIALS. ASRO EXPORT CO., INC., Cleveland, Ohio.
Filed January 13, 1933. Serial No. 333,879. PUBLISHED MAY 2, 1933. Class 12.

305,048. ROOFING SLATE. BANGOR SLATE ASSOCIATION, INC., Bangor, Pa.
Filed January 5, 1933. Serial No. 333,670. PUBLISHED MAY 2, 1933. Class 12.

305,049. ROAD AND HIGHWAY GUARDS AND PARTS THEREOF. REPUBLIC STEEL CORPORATION, doing business as Toncan Culvert Manufacturers Association, Youngstown, Ohio.
Filed January 30, 1933. Serial No. 334,471. PUBLISHED MAY 9, 1933. Class 12.

305,050. REFRACTORY MATERIAL IN PLASTIC FORM—NAMELY, FOR USE IN THE FORMATION OF FURNACE HEARTHS AND FOR BOILER AND FURNACE LININGS AND FOR REPAIR THEREOF. STANDARD FUEL ENGINEERING COMPANY, Detroit, Mich.
Filed February 17, 1933. Serial No. 335,077. PUBLISHED APRIL 25, 1933. Class 12.

305,051. LUBRICATING OILS AND OILS OF THE "MINERAL SEAL" CLASS. JUSTIN F. WAIT, New York, N. Y.
Filed March 6, 1933. Serial No. 335,532. PUBLISHED MAY 2, 1933. Class 15.

305,052. LUBRICATING OIL. ALFRED H. BRANHAM, receiver for Murray Rubber Company, Trenton, N. J.
Filed March 16, 1933. Serial No. 335,711. PUBLISHED MAY 9, 1933. Class 15.

305,053. LUBRICATING OIL. ALFRED H. BRANHAM, receiver for Murray Rubber Company, Trenton, N. J.
Filed March 16, 1933. Serial No. 335,712. PUBLISHED MAY 9, 1933. Class 15.

305,054. NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. ANTHONY J. MONACO, Youngstown, Ohio.
Filed March 16, 1933. Serial No. 335,729. PUBLISHED MAY 2, 1933. Class 45.

305,055. ELECTRIC IMMERSION HEATERS. WEST BEND ALUMINUM COMPANY, West Bend, Wis.
Filed March 16, 1933. Serial No. 335,751. PUBLISHED MAY 9, 1933. Class 21.

305,056. LUBRICATING OILS. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed March 16, 1933. Serial No. 335,747. PUBLISHED MAY 9, 1933. Class 15.

305,057. PETROLEUM PRODUCTS, CONSISTING OF GASOLINE, MOTOR FUEL OILS, KEROSENE, LUBRICATING OILS OTHER THAN CYLINDER OILS, AND LUBRICATING GREASES. THE PURE OIL COMPANY, Chicago, Ill.
Filed March 24, 1933. Serial No. 336,052. PUBLISHED MAY 9, 1933. Class 15.

305,058. AMPLIFYING UNIT FOR INCREASING THE IGNITION AND SPARK OF AUTOMOBILES. NATHAN HOFFMAN, doing business as The Hoffman Engineering Co., New York, N. Y.
Filed March 28, 1933. Serial No. 336,006. PUBLISHED MAY 9, 1933. Class 21.

305,059. GASOLINE AND LUBRICANTS IN OIL AND GREASE FORM. WARREN REFINING COMPANY, Warren, Pa.
Filed March 17, 1933. Serial No. 335,794. PUBLISHED MAY 9, 1933. Class 15.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

305,060. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERBST BAKING CORPORATION, New York, N. Y. Filed June 6, 1933. Serial No. 338,566.

HERBST BREAD

For Bread.
Claims use since 1908.

305,061. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WHITING LEATHER & BELTING COMPANY, INC., Long Island City, N. Y. Filed June 14, 1933. Serial No. 338,855.

Whiting
RUST CUTTER

For a Blended Oil and Chemical Compound for Cutting Rust and Dissolving Corrosion.
Claims use since Nov. 22, 1930.

305,062. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MAUDE GLASS, New Orleans, La. Filed May 5, 1933. Serial No. 337,515.

A-1

For Liquid Type Cleaner.
Claims use since June 25, 1932.

305,063. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BURGESS BATTERY COMPANY, Madison, Wis. Filed May 24, 1933. Serial No. 338,181.

BURGESS

For Mufflers and Silencers for Quieting Noises at Exhausts and Intakes of Engines, Compressors, Blowers, Pumps, Reducing Valves, and Safety Valves.
Claims use since Sept. 9, 1929.

305,064. (CLASS 39. CLOTHING.) COLLEGIATE GARMENT CO., New York, N. Y. Filed Apr. 27, 1933. Serial No. 337,279.

WRAP-IT-ON

For Wearing Apparel Consisting of Ladies' House Dresses, and Pajamas, for the Use of Women and Girls.
Claims use since Dec. 1, 1931.

305,065. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES. HENRY K. BARNES COMPANY, Boston, Mass. Filed May 4, 1933. Serial No. 337,454.

BARNES MINERAL

For Leather Belting Including Gill, Comb, and Drawing Aprons.
Claims use since July, 1903.

305,066. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SCHALK CHEMICAL CO., Los Angeles, Calif. Filed Nov. 21, 1932. Serial No. 332,352.

waxoff

For Dry Chemical Cleaning Compound for Removing Wax and Dirt from Floors.
Claims use since Jan. 1, 1927.

305,067. (CLASS 48. MALT BEVERAGES, AND LIQUORS.) KAISERBRAUEREI BECK & CO., KOMMANDITGESELLSCHAFT AUF AKTIEN, Bremen, Germany. Filed Dec. 29, 1932. Serial No. 333,491.

BECK'S

For Beer Not Exceeding the Legal Alcoholic Content.
Claims use since Jan. 26, 1910.

305,068. (CLASS 32. FURNITURE AND UPHOLSTERY.) PARKER WIRE GOODS COMPANY, Worcester, Mass. Filed June 18, 1932. Serial No. 328,104.

SAFE-STACK

For Racks for Glass and Porcelainware and Other Similar Articles.
Claims use since June 13, 1932.

305,069. (CLASS 39. CLOTHING.) OPPENHEIM, COLLINS & CO. INC., Wilmington, Del.; New York, Brooklyn, and Buffalo, N. Y.; Philadelphia and Pittsburgh, Pa. Filed Oct. 1, 1932. Serial No. 330,862.

Veri Sheer

For Hosiery.
Claims use since May, 1932.

305,070. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) CARRIER-YORK CORPORATION, Philadelphia, Pa. Filed June 8, 1932. Serial No. 327,677.

ATMOSPHERIC Cabinet

For Unit Apparatus for Conditioning Air.
Claims use since Mar. 4, 1931.

305,071. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ORVILLE SIMPSON COMPANY, Cincinnati, Ohio. Filed June 16, 1932. Serial No. 328,035.

TRU-CUT

For Mill Rolls for Breaking Up, Grinding and Mixing Materials.
Claims use since May 23, 1932.

305,072. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) WILLIAM DE FORD SMITH, Washington, D. C. Filed Apr. 22, 1932. Serial No. 326,396.

SHUR OUT

For Ash Trays.
Claims use since Mar. 1, 1932.

305,073. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed May 7, 1932. Serial No. 326,877.

HETTY HARPER'S

For Cake.
Claims use since Apr. 13, 1932.

305,074. (CLASS 39. CLOTHING.) RUFUS W. SCOTT COMPANY, New York, N. Y. Filed May 31, 1930. Serial No. 302,039.

Dulcrepe

For Hosiery.
Claims use since May 20, 1930.

305,075. (CLASS 39. CLOTHING.) THOMAS MILLS, INC., High Point, N. C. Filed Aug. 7, 1931. Serial No. 317,776.

ART SILK FRENCH LISLE

For Silk and Lisle Hosiery.
Claims use since July 1, 1930.

TRADE-MARK REGISTRATIONS RENEWED

40,364. LEATHER BOOTS AND SHOES. Registered May 12, 1903. J. A. & W. BIRD & CO., Boston, Mass. Renewed May 12, 1933, to The Flintkote Corporation, New York, N. Y., a Corporation of Massachusetts, assignee by mesne assignments.

40,895. REMEDIES FOR TUBERCULOUS AND CATARRHAL COMPLAINTS. Registered August 11, 1903. ROBERT SCHNEIDER, Berlin, Germany. Renewed August 11, 1933, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

41,844. SOLID AND PNEUMATIC TIRES. Registered October 20, 1903. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio, a Corporation of Ohio. Renewed October 20, 1933.

41,451. POULTRY. Registered November 10, 1903. CLARINDA POULTRY, BUTTER & EGG CO., Clarinda, Iowa. Renewed November 10, 1933, to Swift and Company, Chicago, Ill., a Corporation of Illinois, assignee.

41,529. ASPHALTIC CEMENTS. Registered November 24, 1903. THE BARBER ASPHALT PAVING CO. Renewed November 24, 1933, to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia, by change of name.

41,578. WHEAT FLOUR. Registered December 1, 1903. GEORGE URBAN MILLING CO., Buffalo, N. Y., a Corporation of New York. Renewed December 1, 1933.

41,579. WHEAT FLOUR. Registered December 1, 1903. GEORGE URBAN MILLING CO., Buffalo, N. Y., a Corporation of New York. Renewed December 1, 1933.

41,580. WHEAT FLOUR. Registered December 1, 1903. GEORGE URBAN MILLING CO., Buffalo, N. Y., a Corporation of New York. Renewed December 1, 1933.

41,630. PERFUMERY AND FLAVORING PRODUCTS. Registered December 8, 1903. HAARMANN-DE LAIRE-SCHAEFER CO. Renewed December 8, 1933, to Maywood Chemical Works, Maywood, N. J., a Corporation of New Jersey, assignee.

41,631. PERFUMERY. Registered December 8, 1903. HAARMANN-DE LAIRE-SCHAEFER CO. Renewed December 8, 1933, to Maywood Chemical Works, Maywood, N. J., a Corporation of New Jersey, assignee.

91,855. CERTAIN NAMED MACHINERY CASTINGS AND FORGINGS. Registered June 8, 1913. DAIMLER-MOTOREN-GESELLSCHAFT. Renewed June 8, 1933, to Daimler-Benz Aktiengesellschaft, Unterturkheim, near Stuttgart, Germany, a Corporation of Germany, by change of name.

91,856. CERTAIN METAL CASTINGS AND FORGINGS. Registered June 8, 1913. DAIMLER-MOTOREN-GESELLSCHAFT. Renewed June 8, 1933, to Daimler-Benz Aktiengesellschaft, Unterturkheim, near Stuttgart, Germany, a Corporation of Germany, by change of name.

91,927. SASH-CORD MANUFACTURED FROM VEGETABLE FIBER. Registered June 10, 1913. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and New York, N. Y. Renewed June 10, 1933, to American Manufacturing Company, Brooklyn, N. Y., a Corporation of Massachusetts.

91,931. CLOTHES-LINES MANUFACTURED FROM VEGETABLE FIBER. Registered June 10, 1913. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and New York, N. Y. Renewed June 10, 1933, to American Manufacturing Company, Brooklyn, N. Y., a Corporation of Massachusetts.

91,948. CERTAIN NAMED FURNITURE AND UPHOLSTERY. Registered June 10, 1913. DAIMLER-MOTOREN-GESELLSCHAFT. Renewed June 10, 1933, to Daimler-Benz Aktiengesellschaft, Unterturkheim, near Stuttgart, Germany, a Corporation of Germany, by change of name.

91,949. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS. Registered June 10, 1913. DAIMLER-MOTOREN-GESELLSCHAFT. Renewed June 10, 1933, to Daimler-Benz Aktiengesellschaft, Unterturkheim, near Stuttgart, Germany, a Corporation of Germany, by change of name.

91,950. CERTAIN NAMED CLOTHING. Registered June 10, 1913. DAIMLER-MOTOREN-GESELLSCHAFT. Renewed June 10, 1933, to Daimler-Benz Aktiengesellschaft, Unterturkheim, near Stuttgart, Germany, a Corporation of Germany, by change of name.

91,951. CERTAIN NAMED FURNITURE AND UPHOLSTERY. Registered June 10, 1913. DAIMLER-MOTOREN-GESELLSCHAFT. Renewed June 10, 1933, to Daimler-Benz Aktiengesellschaft, Unterturkheim, near Stuttgart, Germany, a Corporation of Germany, by change of name.

91,952. HEATING, LIGHTING AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS. Registered June 10, 1913. DAIMLER-MOTOREN-GESELLSCHAFT. Renewed June 10, 1933, to Daimler-Benz Aktiengesellschaft, Unterturkheim, near Stuttgart, Germany, a Corporation of Germany, by change of name.

92,020. SNAP-BUTTONS USED AS GARMENT-FASTENERS. Registered June 10, 1913. WALDES & CO., Prague, Wrschowitz, Austria-Hungary. Renewed June 10, 1933, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a Corporation of New York, assignee by mesne assignments.

92,064. SAUSAGE. Registered June 17, 1913. A. GÖBEL, Brooklyn, N. Y. Renewed June 17, 1933, to Adolf Gobel, Inc., New York, N. Y., a Corporation of New York, successor.

92,271. SHEET-METAL STOVEPIPES, ELBOWS, FURNACE-PIPES, HEATING-PIPES, AND FITTINGS THEREFOR. Registered June 24, 1913. SHEET METAL SPECIALTY COMPANY, Pittsburgh, Pa., a Corporation of West Virginia. Renewed June 24, 1933.

92,272. STRAIGHT RYE WHISKY. Registered June 24, 1913. THE SHERWOOD DISTILLING CO. Renewed June 24, 1933, to The Sherwood Distilling & Distributing Co., Baltimore, Md., a Corporation of Maryland, successor.

92,273. STRAIGHT RYE WHISKY. Registered June 24, 1913. THE SHERWOOD DISTILLING CO. Renewed June 24, 1933, to The Sherwood Distilling & Distributing Company, Baltimore, Md., a Corporation of Maryland, successor.

92,282. FRUIT-TREES, FRUIT-PLANTS, AND HARDY ORNAMENTALS. Registered June 24, 1913. STARK BRO'S NURSERIES & ORCHARDS CO., Louisiana, Mo., a Corporation of Missouri. Renewed June 24, 1933.

92,305. CERTAIN NAMED CONSTRUCTION MATERIALS. Registered June 24, 1913. WHEELING CORRUGATING COMPANY, Wheeling, W. Va., a Corporation of West Virginia. Renewed June 24, 1933.

92,381. CERTAIN NAMED HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES. Registered July 1, 1913. WHEELING CORRUGATING COMPANY, Wheeling, W. Va., a Corporation of West Virginia. Renewed July 1, 1933.

92,581. RAISINS. Registered July 15, 1913. ROSENBERG BROS. & CO. Renewed July 15, 1933, to Rosenberg Bros. & Co., San Francisco, Calif., a Corporation of California, successor.

92,680. MATTRESSES AND BOX-SPRINGS. Registered July 22, 1913. JACOB KAISER MFG. CO., St. Louis, Mo., a Corporation of Missouri. Renewed July 22, 1933.

92,756. CANNED SALMON. Registered July 29, 1913. DEEP SEA SALMON COMPANY, INC. Renewed July 29, 1933, to Alaska Pacific Salmon Corporation, Seattle, Wash., a Corporation of Washington, successor.

92,992. A PREPARATION FOR THE TREATMENT OF WOUNDS. Registered August 12, 1913. KALLE & CO., AKTIENGESELLSCHAFT, Biebrich, Germany. Renewed August 12, 1933, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

93,001. SEWING-COTTON ON SPOOLS OR REELS. Registered August 12, 1913. S. MANLOVE & SONS LIMITED, Manchester, England, a Corporation of Great Britain. Renewed August 12, 1933.

93,002. SEWING-COTTON ON SPOOLS OR REELS. Registered August 12, 1913. S. MANLOVE & SONS LIMITED, Manchester, England, a Corporation of Great Britain. Renewed August 12, 1933.

93,081. CERTAIN CUTLERY, MACHINERY, TOOLS, AND PARTS THEREOF. Registered August 19, 1913. DAIMLER-MOTOREN-GESELLSCHAFT. Renewed August 19, 1933, to Daimler-Benz Aktiengesellschaft, Untertürkheim, near Stuttgart, Germany, a Corporation of Germany by change of name.

93,103. COMBINED SEALING AND STAMPING MACHINES AND SEALING-MACHINES. Registered August 19, 1913. MAILOMETER COMPANY, Detroit, Mich. Renewed August 19, 1933, to Pitney-Bowes Postage Meter Company, Stamford, Conn., a Corporation of Delaware, assignee.

93,153. REINFORCED GLASS. Registered August 26, 1913. EDOUARD BENEDICTUS, Paris, France. Renewed August 26, 1933, to Triplex Corporation, Pittsburgh, Pa., a Corporation of New Jersey, assignee by mesne assignments.

93,158. FRET-SAWS FOR GOLD AND SILVER SMITHS. Registered August 26, 1913. FRANZ BONFIGT, Aachen, Germany. Renewed August 26, 1933, to Pulger, Bonfigt & Co., Koln A/Rh., Germany, a Corporation of Germany, assignee.

93,220. CERTAIN CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. Registered August 26, 1913. THEODOR TEICHGRAEBER, Berlin, Germany. Renewed August 26, 1933, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

93,230. OINTMENT AND VULNERARY POWDER. Registered August 26, 1913. CHEMISCHE FABRIK ALTHERZBERG, Alwin Nieske, Dresden, and Dresden-Loschwitz, Germany. Renewed August 26, 1933, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

93,356. PEROXID OF HYDROGEN. Registered September 9, 1913. HYDROX CHEMICAL CO., New York, N. Y. Renewed September 9, 1933, to Hydrox Chemical Company of Illinois, Chicago, Ill., a Corporation of Illinois, successor.

93,991. CHEESE. Registered October 28, 1913. CORKRAN, HILL & CO., as assignee of W. Ewing Harvey. Renewed October 28, 1933, to Corkran, Hill & Company, Inc., Baltimore, Md., a Corporation of Maryland, assignee by mesne assignments.

94,037. SILK PIECE GOODS. Registered October 28, 1913. WAHNETAH SILK COMPANY, Catasaqua, Pa., a Corporation of Pennsylvania. Renewed October 28, 1933.

94,082. TOOTHPICKS. Registered November 4, 1913. ALEXANDER HERZ. Renewed November 4, 1933, to The Hygeia Antiseptic Toothpick Company, Incorporated, New York, N. Y., a Corporation of New York, assignee.

94,096. SPOON FISHING-BAIT. Registered November 4, 1913. WILLIAM T. J. LOWE, Buffalo, N. Y. Renewed November 4, 1933, to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio, assignee.

94,134. ILLUMINATING-OILS. Registered November 4, 1913. WADHAMS OIL COMPANY. Renewed November 4, 1933, to Wadhams Oil Company, Milwaukee, Wis., a Corporation of Wisconsin, assignee.

94,168. NEWSPAPERS. Registered November 11, 1913. THE EDITOR & PUBLISHER COMPANY, New York, N. Y., a Corporation of New York. Renewed November 11, 1933.

94,194. CERTAIN NAMED MACHINES, CUTLERY, AND TOOLS. Registered November 11, 1913. THE MINE & SMELTER SUPPLY COMPANY, Denver, Colo., and New York, N. Y., a Corporation of Colorado. Renewed November 11, 1933.

94,196. PIPES, TUBES, AND CASINGS. Registered November 11, 1913. NATIONAL TUBE COMPANY, Pittsburgh, Pa., a Corporation of New Jersey. Renewed November 11, 1933.

94,341. HAM. Registered November 25, 1913. WESTERN SAUSAGE & PROVISION CO., INC., New York, N. Y., a Corporation of New York. Renewed November 25, 1933.

94,352. CORNMEAL. Registered December 2, 1913. SOLOMON C. BRINSER. Renewed December 2, 1933, to John R. Brinser, doing business as S. C. Brinser's Sons, Middletown, Pa., successor.

94,358. ADHESIVE PASTES. Registered December 2, 1913. ERNECKE & SALMSTEIN CO., Chicago, Ill., a Corporation of Illinois. Renewed December 2, 1933.

94,364. PIANOFORTES, GRAND AND UPRIGHT PIANOS, AND GRAND AND UPRIGHT PLAYER-PIANOS. Registered December 2, 1913. J. & C. FISCHER. Renewed December 2, 1933, to Aeolian American Corporation, New York, N. Y., a Corporation of New York, assignee, by mesne assignments.

94,375. WHEAT-FLOUR. Registered December 2, 1913. HECKER-JONES-JEWELL MILLING COMPANY. Renewed December 2, 1933, to Standard Milling Company, New York, N. Y., a Corporation of Delaware, assignee.

94,392. PIPES, TUBES, AND CASINGS. Registered December 2, 1913. NATIONAL TUBE COMPANY, Pittsburgh, Pa., a Corporation of New Jersey. Renewed December 2, 1933.

94,413. FELT IN THE PIECE. Registered December 9, 1913. AMERICAN FELT COMPANY, Boston, Mass. Renewed December 9, 1933, to American Felt Company, New York, N. Y., a Corporation of Massachusetts.

94,433. NEWSPAPERS. Registered December 9, 1913. THE EDITOR & PUBLISHER COMPANY, New York, N. Y., a Corporation of New York. Renewed December 9, 1933.

94,459. BROKEN GLASS. Registered December 9, 1913. MAXWELL LEVY. Renewed December 9, 1933, to Max Levy and Company, Chicago, Ill., a Corporation of Illinois. Renewed December 9, 1933.

94,519. YARNS. Registered December 9, 1913. JACOB FRANK MERCANTILE CO., St. Louis, Mo., a Corporation of Missouri. Renewed December 9, 1933.

94,520. CERTAIN NAMED ARTICLES TO BE USED IN EMBROIDERING. Registered December 9, 1913. JACOB FRANK MERCANTILE CO., St. Louis, Mo., a Corporation of Missouri. Renewed December 9, 1933.

LABELS

REGISTERED JULY 25, 1933

42,432.—*Title:* 7 POINT. For Candy. FRED BREESE, JR., doing business as 7 Point Company, San Francisco, Calif. Published February 1, 1933.

42,433.—*Title:* MASTERMIXT MAYONNAISE. For Mayonnaise Dressing. JOHN E. CAIN, Boston, Mass. Published May 5, 1933.

42,434.—*Title:* CHAUTAUQUA MAID. For Malted Milk and Other Milk Products. CHAUTAUQUA MALTED MILK, INC., Mayville, N. Y. Published March 27, 1933.

42,435.—*Title:* BLACK EAGLE. For Beer. THE CLASS & NACHOD BREWING COMPANY, Philadelphia, Pa. Published April 7, 1933.

42,436.—*Title:* SOUTHERN STAR. For Beer. THE CLASS & NACHOD BREWING COMPANY, Philadelphia, Pa. Published May 31, 1933.

42,437.—*Title:* MEISTER-BRAU. For Beer. THE CLEVELAND HOME BREWING CO., Cleveland, Ohio. Published May 26, 1933.

42,438.—*Title:* CLEVELANDER. For Beer. THE CLEVELAND HOME BREWING CO., Cleveland, Ohio. Published May 26, 1933.

42,439.—*Title:* GOLD EMPIRE. For Cooked Spaghetti with Mushroom and Chicken Sauce. CRISTOFORO PACKING CO., San Francisco, Calif. Published April 26, 1933.

42,440.—*Title:* AIRWAY. For Coffee. DWIGHT EDWARDS COMPANY, San Francisco, Calif. Published February 16, 1933.

42,441.—*Title:* KINGS-BREAD. For Bread. HOLLINGSHURST & CO., INC., New York, N. Y. Published October 14, 1932.

42,442.—*Title:* FLAT-PAC. For Ice Cream. HUYLER'S, New York, N. Y. Published April 12, 1933.

42,443.—*Title:* EL-CAPITAN. For Salad Dressings. CHRISTENA A. JONES, doing business as El-Capitan Food Products, Chicago, Ill. Published June 15, 1933.

42,444.—*Title:* LUXURY LOAF. For Bread. KEYSTONE BAKERY, INC., West Bridgewater, Pa. Published June 21, 1933.

42,445.—*Title:* EGYPTIAN HERB TEA. For Herb Tea. RALPH E. PRITCHARD, doing business as Egyptian Tea Co., Akron, Ohio. Published August 15, 1932.

42,446.—*Title:* ROCKWOOD'S FLAVORED PURE COCOA. For Cocoa. ROCKWOOD & COMPANY, Brooklyn, N. Y. Published May 3, 1933.

42,447.—*Title:* RUMFORD BAKES-ALL. For Prepared Flour. THE RUMFORD COMPANY, Rumford, R. I. Published May 8, 1933.

42,448.—*Title:* STAHL-MEYER. For Pure Pork Sausages. STAHL-MEYER, INC., Brooklyn, N. Y. Published November 28, 1932.

PRINTS

REGISTERED JULY 25, 1933

14,274.—*Title:* FEATHERWEIGHT FLANNEL. For Woolen Piece Goods. CYRIL JOHNSON WOOLEN CO., Stafford Springs, Conn. Published May 15, 1933.

14,275.—*Title:* NEW KIND OF TIRE . . . 3 TIMES SAFER . . . GIVES BLOW-OUT PROTECTION FREE! (AD NO. GBC—6.) For Rubber Tires. THE B. F. GOODRICH RUBBER COMPANY, Akron, Ohio. Published June 24, 1933.

14,276.—*Title:* DON'T GAMBLE . . . BE SAFE!—WITH THIS 3-TIMES SAFER TIRE. (AD NO. GBC—514.) For Rubber Tires. THE B. F. GOODRICH RUBBER COMPANY, Akron, Ohio. Published June 5, 1933.

14,277.—*Title:* DON'T LET THIS HAPPEN TO YOU—BLOW-OUT PROTECTION IS FREE! (AD NO. GBC—515.) For Rubber Tires. THE B. F. GOODRICH RUBBER COMPANY, Akron, Ohio. Published June 12, 1933.

14,278.—*Title:* NOW WHO ELSE WANTS BLOW-OUT PROTECTION FREE! (AD NO. GBC—7.) For Rubber Tires. THE B. F. GOODRICH RUBBER COMPANY, Akron, Ohio. Published June 19, 1933.

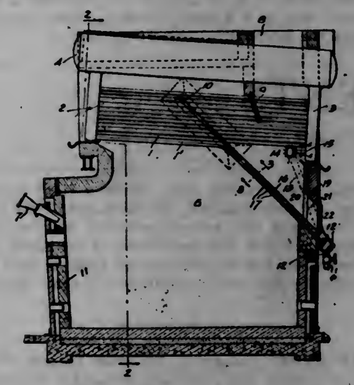
14,279.—*Title:* TATTOO CHEWING GUM—BALL PLAYER BUTTON. For Chewing Gum. ORBIT GUM COMPANY, Chicago, Ill. Published June 7, 1933.

14,280.—*Title:* PABST BLUE RIBBON THE BEER OF QUALITY. For Beer. PREMIER-PABST CORPORATION, Peoria Heights, Ill. Published June 10, 1933.

REISSUES

JULY 25, 1933

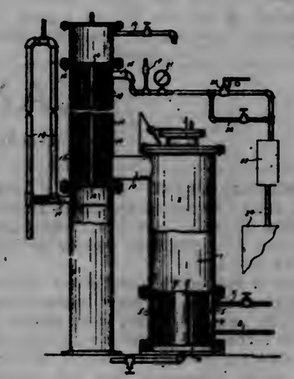
18,901. **WATER-TUBE STEAM BOILER.** EDWARD J. FRANKLIN, Salt Lake City, Utah. Original No. 1,634,139, dated June 28, 1927, Serial No. 41,963, filed July 7, 1925. Application for reissue filed Oct. 2, 1931. Serial No. 566,542. 2 Claims. (Cl. 122—235.)



1. In combination with a furnace having walls enclosing a combustion chamber, a boiler having a plurality of rows of inclined water tubes above said combustion chamber and connected for circulation of water therethrough, said tubes extending from a lower rear connecting vessel or header inclinedly upwardly to a higher front connecting vessel or header, and a single supplemental row of said tubes the same having their front ends connected into said higher vessel for circulation in the boiler, and extended first rearwardly below and parallel to the boiler tubes and then having the rear end portions thereof extended downwardly below the boiler from a position adjacent the remaining rows of tubes at a substantial slant to a connecting header in a protected position, and such connecting header, downtake connections from the lower rear vessel feeding water to said connecting header and thereby to the lower rear ends of such extended single row of tubes, wall elements of refractory material associated with said slantingly extended portions of said single row of tubes to form a closed wall wholly below the boiler and bounding the combustion chamber and exposed directly to the radiant heat therein, a furnace wall to the rear of such closed wall, and such closed wall and rear wall cooperating to provide a downwardly extending pocket wholly below the boiler for collection of ashes or solid material settling from the boiler, with means permitting discharge of material from said pocket, and there being in closed relation to said closed wall an upward baffle extension into the boiler to form ascending and descending passes therein.

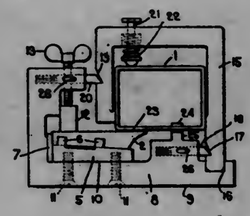
18,902. **METHOD OF PRODUCING HYDROGEN SULPHIDE.** GEORGE LYNN, Wadsworth, and EDWARD M. ALLEN and BRAZIER K. BEECHER, Barberton, Ohio, assignors to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Original No. 1,862,900, dated June 14, 1932, Serial No. 453,502, filed May 19, 1930. Application for reissue filed Feb. 15, 1933. Serial No. 657,756. 5 Claims. (Cl. 23—181.)

1. The method of producing hydrogen sulphide from sulphur and an alkali substance consisting in heating together sulphur and alkali substance in the presence of water at a temperature and pressure high enough so that



the hydrogen sulphide thereby produced liquefies without further compression.

18,903. **METHOD OF AND APPARATUS FOR MANUFACTURING TUFT YARN FRAMES.** CLINTON ALVORD, Worcester, Mass., assignor to Worcester Loom Works, Worcester, Mass., a Corporation of Massachusetts. Original No. 1,851,798, dated Mar. 29, 1932, Serial No. 474,332, filed Aug. 11, 1930. Application for reissue filed Apr. 29, 1933. Serial No. 668,648. 17 Claims. (Cl. 113—99.)



11. An apparatus for forming a tuft yarn frame comprising a two-part separable holder, a yarn guide spacer mounted in one holder part to position accurately and uniformly tuft frame yarns guides in parallelism and in straight alignment, means in the other holder part to sup-

port removably a carrier bar with its front surface in juxtaposition to the ends of the backs of the positioned yarn guides and means on one holder part acting yieldingly to press the row of positioned yarn guides and carrier bar together when the holder parts are assembled.

15. The process of forming a tuft yarn frame which comprises assembling a carrier bar, a plurality of yarn guides, and a temporary yarn guide spacer with the spacer accurately and uniformly positioning the yarn guides, with the ends of the backs of the positioned yarn guides overlying the carrier bar, and with a strip of solder positioned in proximity to the said yarn guides and the carrier bar, raising the temperature of the ensemble to a point sufficient to melt the solder, thereafter lowering the temperature of the ensemble to a point where the solder is set, and removing the temporary spacer.

18,904. PARKING DEVICE FOR AUTOMOBILES. BROOKS WALKER, Piedmont, Calif. Original No. 1,693,288, dated Nov. 27, 1928, Serial No. 188,429, filed May 3, 1927. Application for reissue filed Apr. 22, 1930. Serial No. 446,370. 25 Claims. (Cl. 180—1.)



22. The combination with a vehicle raising device, of a ground engaging member adapted to travel a transverse arcuate path about a point disposed at one side of the vehicle center line to a vehicle raised position approximately under the longitudinal axis of the vehicle.

PLANT PATENTS

GRANTED JULY 25, 1933

71. STRAWBERRY PLANT. EVERETT C. HOWARD, Belchertown, Mass. Refiled for abandoned application filed July 1, 1931, Serial No. 548,227. Divided and this application filed Dec. 27, 1932. Serial No. 649,056. 1 Claim. (Cl. 47—1.)

The variety of strawberry plant herein described, characterized particularly by its bright, vigorous and attractive foliage, its unusually heavy root system, its heavy production of berries of superior size, shape and color as shown, the dark red color extending all the way through the berry, and its firmness of flesh and sprightly flavor resulting in superior shipping and canning qualities.

72. PINK ROSE. FRANK SCHRAMM, Crystal Lake, Ill. Filed Jan. 20, 1933. Serial No. 652,718. 1 Claim. (Cl. 47—1.)

The exclusive right to reproduce a new and distinctive variety of roses, substantially as that herein shown and described, characterized particularly by its very large bloom of unusual depth and large petals, its bright glowing rosepink colorature uniformly throughout the extent of the petals, except at their inner ends, having a tinge of yellow forming its inner corolla, its dark-green pinnated leaves, its very long and strong peduncles, its free and strong-growing qualities, the prolificness of its bloom, its ease of propagation, and its ability at all times to emit an aroma of delicate and lasting fragrance of great extent.

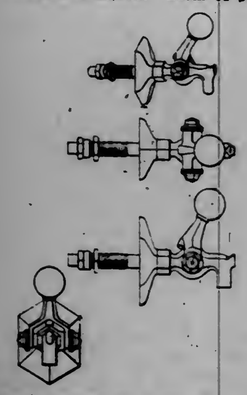
73. PECAN TREE. JAMES A. SIMPSON, Uvalde, Tex., assignor to Humble Oil & Refining Company, Houston, Tex., a Corporation of Texas. Filed Aug. 18, 1932. Serial No. 629,850. 1 Claim. (Cl. 47—1.)

A pecan nut tree as described characterised by its vigorous growing habits, heavy fruitage, nuts being openly spaced and being large, in which both male and female blooms appear late in the season, and the periods of dehiscency and receptivity extend over a relatively long period having a relatively late blooming period but maturing early, the hulls of the nuts being heavily ribbed and the surfaces of the hulls being rough and the stems having straight nodes upon current growths.

DESIGNS

JULY 25, 1933

90,353. FAUCET. JAMES BALTON, Baltimore, Md., assignor to Joseph Shapiro, Baltimore, Md. Filed May 12, 1933. Serial No. 48,093. Term of patent 7 years.



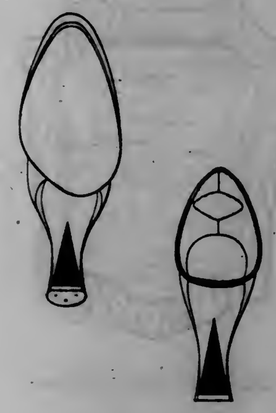
The ornamental design for a faucet substantially as shown.

90,354. COMBINED ENDPIECE AND TEMPLE FOR SPECTACLES. SAMUEL E. BOUCHARD, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 26, 1933. Serial No. 47,905. Term of patent 7 years.



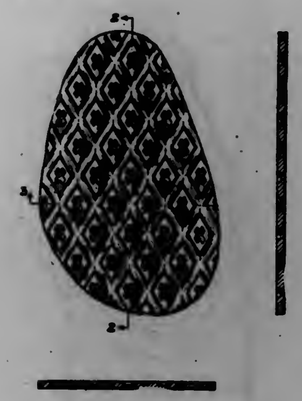
The ornamental design for a combined endpiece and temple for spectacles substantially as shown.

90,355. SHOE. ARTHUR J. BRAUER and FREDERICK P. WAGNER, St. Louis, Mo. Filed Dec. 14, 1931. Serial No. 42,087. Term of patent 7 years.



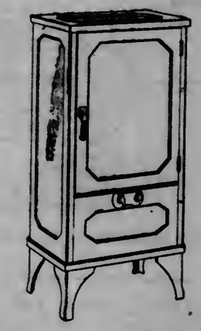
The ornamental design for a shoe substantially as shown and described.

90,356. SHOE SOLE. OSCAR BROCKMAN, Louisville, Ky. Filed Oct. 22, 1932. Serial No. 45,510. Term of patent 14 years.



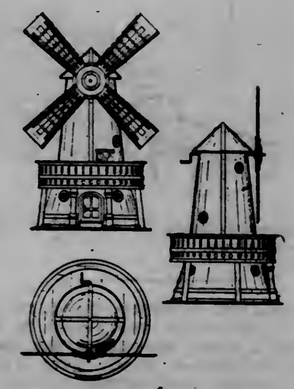
The ornamental design for a shoe sole.

90,357. CABINET FOR OIL BURNER SUPPLY TANKS. WILLIAM T. BRADBURY, Kankakee, Ill., assignor to Florence Stove Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 26, 1933. Serial No. 47,906. Term of patent 7 years.



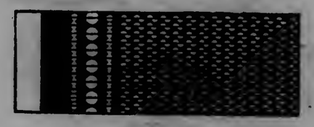
The ornamental design for a cabinet for oil burner supply tanks, substantially as shown.

90,358. TOY WINDMILL. LEONARD CHERNEFF, Port Ludlow, Wash. Filed May 10, 1933. Serial No. 48,059. Term of patent 7 years.



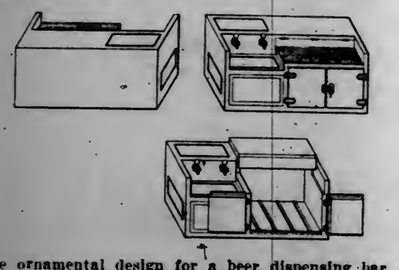
The ornamental design for a toy windmill, as shown.

90,359. TEXTILE FABRIC. MARCEL CHRISTEN, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y., a Corporation of New York. Filed June 26, 1933. Serial No. 48,531. Term of patent 3½ years.



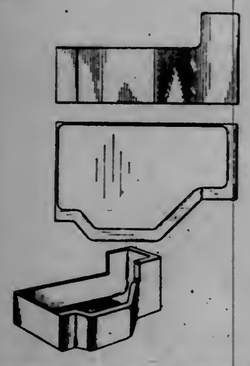
The ornamental design for a textile fabric, substantially as shown and described.

90,360. BEER DISPENSING BAR. IRA COPELAND, Detroit, Mich., assignor to American Show Case & Manufacturing Company, a Corporation of Michigan. Filed May 8, 1933. Serial No. 48,036. Term of patent 7 years.



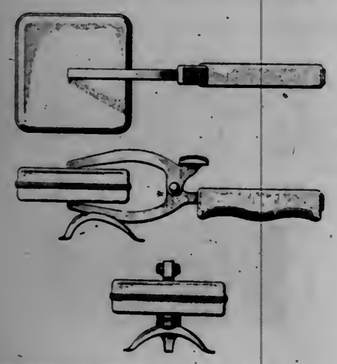
The ornamental design for a beer dispensing bar, as shown.

90,361. COMBINED BATHTUB AND SHOWER PAN. JOSEPH ERLE DRUCKENMILLER, Edge Hill, Pa. Filed Apr. 25, 1932. Serial No. 43,601. Term of patent 3½ years.



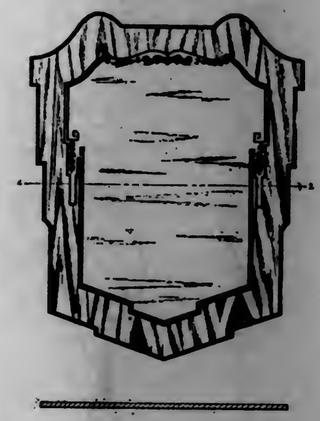
The ornamental design for a combined bathtub and shower pan as shown.

90,362. COOKING UTENSIL OR LIKE ARTICLE. THOMAS A. EDISON, Jr., East Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a Corporation of New Jersey. Filed May 20, 1933. Serial No. 48,170. Term of patent 3½ years.



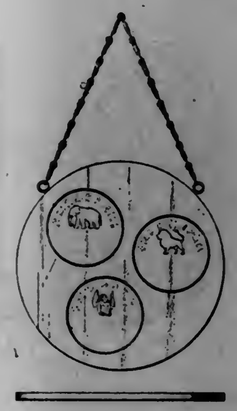
The ornamental design for a cooking utensil or like article, substantially as shown.

90,363. TROPHY PLAQUE. THEODORE P. EICHELSDOERFER, Rock Island, Ill. Filed May 4, 1933. Serial No. 48,012. Term of patent 3½ years.



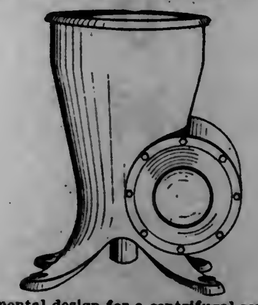
The ornamental design for a trophy plaque, as shown and described.

90,364. GRIDDLE IRON. RALPH T. GANARY, Bridgeton, N. J., assignor of one-half to Edward B. Neill and Anna Neill, Fox Chase, Pa. Filed Apr. 17, 1933. Serial No. 47,804. Term of patent 3½ years.



The ornamental design for a griddle iron, as shown and described.

90,365. CENTRIFUGAL SEPARATOR FRAME. VINCENT J. GILMORE, Wappingers Falls, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 18, 1933. Serial No. 47,831. Term of patent 3½ years.



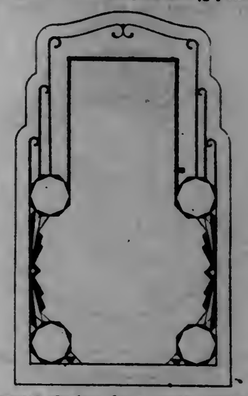
The ornamental design for a centrifugal separator frame as shown and described.

90,366. SHRINE. MORRIS GREEN, Scranton, Pa. Filed Apr. 7, 1933. Serial No. 47,722. Term of patent 7 years.



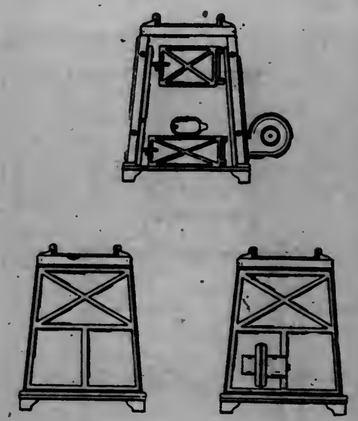
The ornamental design for a shrine as shown.

90,367. COMMERCIAL DISPLAY UNIT. WILL KEMP HAYTHORNE, San Antonio, Tex. Filed Feb. 17, 1933. Serial No. 47,240. Term of patent 3½ years.



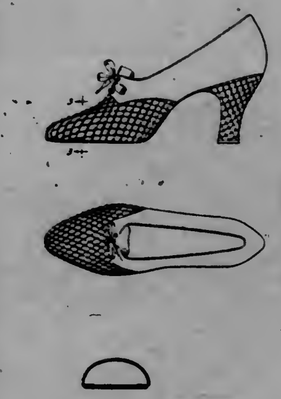
The ornamental design for a commercial display unit as shown and described.

90,368. BOILER HEATER. MICHAEL IANNONE, Rochester, N. Y. Filed May 19, 1933. Serial No. 48,165. Term of patent 7 years.



The ornamental design for a boiler heater substantially as shown.

90,369. SHOE OR SIMILAR ARTICLE. LUDWIK KAMINSKI, New York, N. Y., assignor to Cornell-Unity, Inc., New York, N. Y., a Corporation of New York. Filed May 16, 1933. Serial No. 48,132. Term of patent 3½ years.



The ornamental design for a shoe or similar article substantially as shown.

90,370. COMBINED DRESSER AND MIRROR. FRANCES M. MCCLURE, New York, N. Y., assignor to The Statton Furniture Manufacturing Company, Hagerstown, Md., a Corporation of Maryland. Filed Jan. 24, 1933. Serial No. 46,948. Term of patent 3½ years.



The ornamental design for a combined dresser and mirror, as shown and described.

90,371. SHOE. CHARLES MILLER, New York, N. Y. Filed June 7, 1933. Serial No. 48,319. Term of patent 3½ years.



The ornamental design for a shoe, as shown.

90,372. SHOE. CHARLES MILLER, New York, N. Y. Filed June 7, 1933. Serial No. 48,335. Term of patent 3½ years.



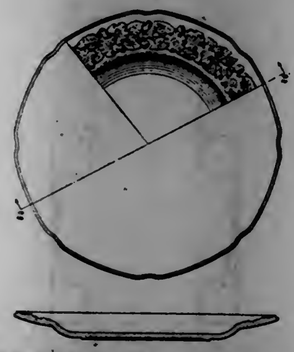
The ornamental design for a shoe, as shown.

90,373. SHOE. CHARLES MILLER, New York, N. Y. Filed June 7, 1933. Serial No. 48,337. Term of patent 3½ years.



The ornamental design for a shoe, as shown.

90,374. PLATE OR SIMILAR ARTICLE. HERBERT MOLLER, Dunkirk, Ind., assignor to Indiana Glass Company, Dunkirk, Ind., a Corporation of Indiana. Filed Feb. 6, 1933. Serial No. 47,126. Term of patent 14 years.



The ornamental design for a plate or similar article, substantially as shown and described.

90,375. BOWL OR SIMILAR ARTICLE. HERBERT MOLLER, Dunkirk, Ind., assignor to Indiana Glass Company, Dunkirk, Ind., a Corporation of Indiana. Filed May 6, 1933. Serial No. 48,026. Term of patent 14 years.



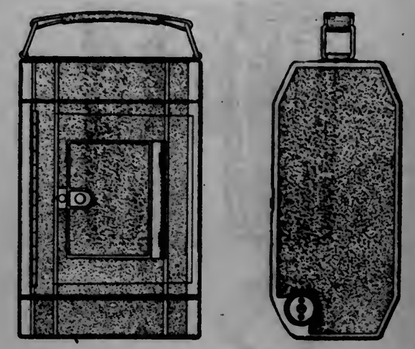
The ornamental design for a bowl or similar article, substantially as shown and described.

90,376. CHAIR. HAROLD MORRISON, Chattanooga, Tenn., assignor to Milne Chair Company, Chattanooga, Tenn., a Corporation of Tennessee. Filed May 4, 1933. Serial No. 48,010. Term of patent 3½ years.



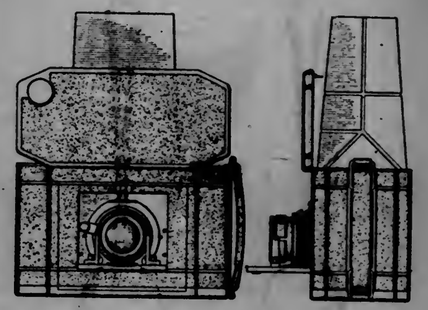
The ornamental design for a chair, substantially as shown.

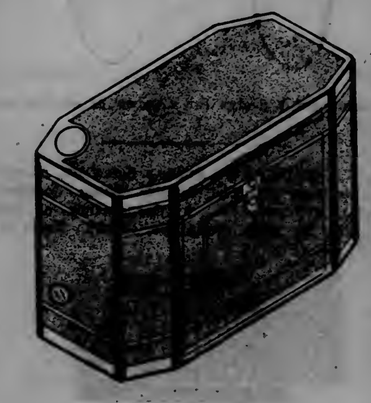
90,377. CAMERA CASING. WILLIAM H. PETIT and EDSON S. HINELINE, Rochester, N. Y. Filed Jan. 25, 1933. Serial No. 46,990. Term of patent 14 years.



The ornamental design for a camera casing as shown.

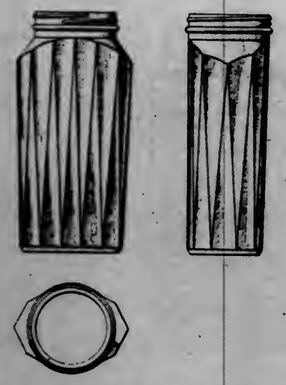
90,378. CAMERA CASING. WILLIAM H. PETIT and EDSON S. HINELINE, Rochester, N. Y. Filed Jan. 25, 1933. Serial No. 46,991. Term of patent 14 years.





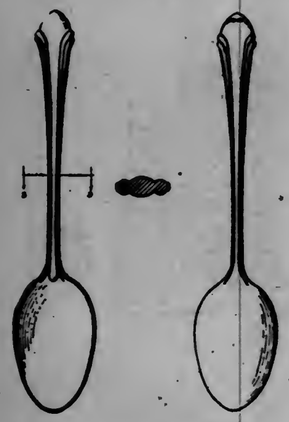
The ornamental design for a camera casing, as shown and described.

90,379. GLASS JAR. FRED J. PETTY, Muncie, Ind., assignor to Ball Brothers Company, Muncie, Ind., a Corporation of Indiana. Filed Apr. 29, 1933. Serial No. 47,938. Term of patent 3½ years.



The ornamental design for a glass jar, as shown.

90,380. SPOON OR SIMILAR ARTICLE. JAMES R. PRICE, Providence, R. I., assignor to The Alvin Corporation, Providence, R. I. Filed May 25, 1933. Serial No. 48,200. Term of patent 14 years.



The ornamental design for a spoon or similar article, as shown.

90,381. LAMP SHADE. EUGENE SCHWARZ, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a Corporation of Illinois. Filed May 22, 1933. Serial No. 48,188. Term of patent 3½ years.



The ornamental design for a lamp shade, substantially as shown and described.

90,382. LAMP SHADE. EUGENE SCHWARZ, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a Corporation of Illinois. Filed May 22, 1933. Serial No. 48,189. Term of patent 3½ years.



The ornamental design for a lamp shade, substantially as shown and described.

90,383. LAMP SHADE. EUGENE SCHWARZ, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a Corporation of Illinois. Filed May 22, 1933. Serial No. 48,190. Term of patent 3½ years.



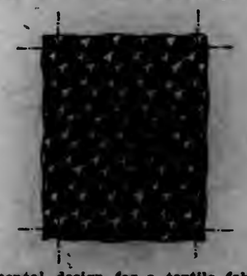
The ornamental design for a lamp shade, substantially as shown and described.

90,384. TEXTILE FABRIC OR SIMILAR ARTICLE. JACK SCHWEIZER, New York, N. Y., assignor to William Willheim Co., Inc., New York, N. Y. Filed Dec. 27, 1932. Serial No. 46,596. Term of patent 3½ years.



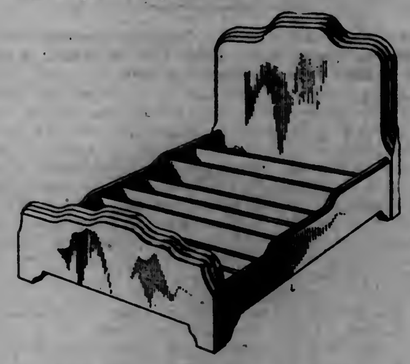
The ornamental design for a textile fabric or similar article as shown and described.

90,385. TEXTILE FABRIC OR SIMILAR ARTICLE. JACK SCHWEIZER, New York, N. Y., assignor to William Willheim Co., Inc., New York, N. Y. Filed Dec. 27, 1932. Serial No. 46,594. Term of patent 3½ years.



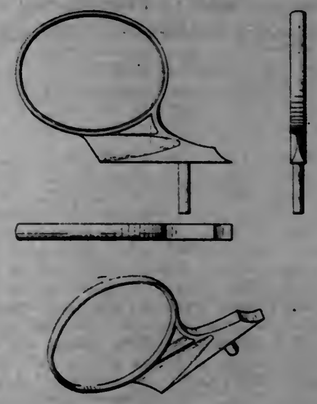
The ornamental design for a textile fabric or similar article as shown and described.

90,386. DISPLAY STAND. HARRY E. SHAW, Grand Rapids, Mich. Filed May 1, 1933. Serial No. 47,961. Term of patent 7 years.



The ornamental design for a display stand, as shown.

90,387. EMBLEM HOLDER FOR RADIATOR CAPS. SVEND A. SJOGREEN, Berkeley, and JAMES W. JOHNSON, San Francisco, Calif. Filed Feb. 20, 1933. Serial No. 47,274. Term of patent 7 years.



The ornamental design for an emblem holder for radiator caps, as shown and described.

90,388. ELECTRIC CASSEROLE. ALVA T. SMITH, Milwaukee, Wis., assignor to National Enameling & Stamping Company, Milwaukee, Wis. Filed Apr. 30, 1932. Serial No. 43,677. Term of patent 7 years.



The ornamental design for an electric casserole, as shown and described.

90,389. CHALICE. ALBERT F. SONDERMAN, Ferdinand, Ind., and NICHOLAS MEINHARDT, Preston, Iowa, assignors to F. H. Sonderman, Yorkville, Ind. Filed May 10, 1933. Serial No. 48,071. Term of patent 7 years.



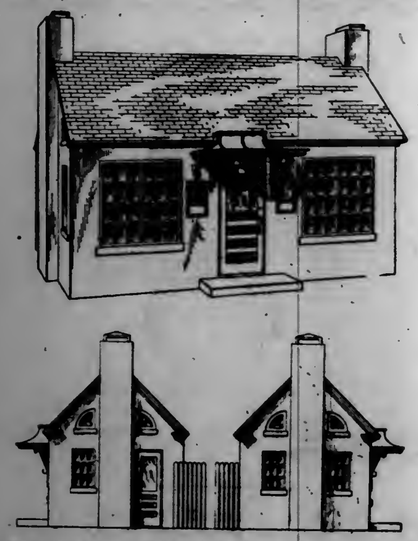
The ornamental design for a chalice, as shown.

90,390. TEXTILE FABRIC. WALTER SPECK, Haledon, N. J., assignor to Goldstein-Wilkins Corporation, New York, N. Y., a Corporation of New York. Filed June 26, 1933. Serial No. 48,529. Term of patent 3½ years.



The ornamental design for a textile fabric, substantially as shown and described.

90,391. HOUSE. JACOB C. STEDMAN, Memphis, Tenn. Filed Feb. 4, 1933. Serial No. 47,109. Term of patent 14 years.



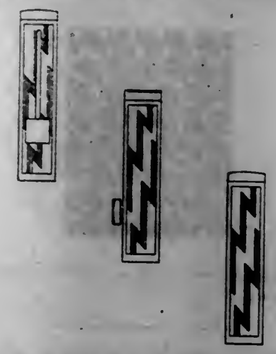
The ornamental design for a house as shown.

90,392. TEXTILE FABRIC. MICHELANGELO SUSI, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y., a Corporation of New York. Filed June 26, 1933. Serial No. 48,532. Term of patent 3½ years.



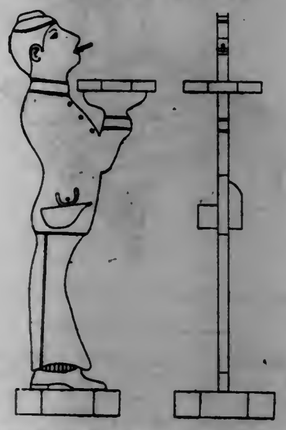
The ornamental design for a textile fabric, substantially as shown and described.

90,393. LIP STICK CASE. RENE TRICARD, Paris, France, assignor to Lentheric Incorporated, New York, N. Y., a Corporation of New York. Filed May 12, 1933. Serial No. 48,090. Term of patent 14 years.



The ornamental design for a lipstick case substantially as shown.

90,394. SMOKING STAND. WILLIAM FRANKLIN WILLIAMSON, Searcy, Ark. Filed Feb. 11, 1933. Serial No. 47,220. Term of patent 3½ years.

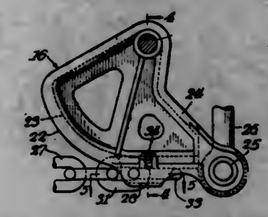


The ornamentnl design for a smoking stand as shown.

PATENTS

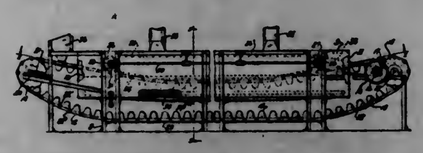
GRANTED JULY 25, 1933

1,919,184. BRAKE OPERATING MECHANISM. HERBERT E. BARTSCH, Chicago, Ill., assignor to Universal Draft Gear Attachment Co., a Corporation of Illinois. Filed July 26, 1930. Serial No. 470,793. 1 Claim. (Cl. 74—110.)



In a railway brake, a lever comprising a segmental portion and a bearing opposite the segmental portion about which the lever is adapted to turn while in use, said segmental portion being provided with a groove in its periphery and having a forwardly extending arm to which an operating member is adapted to be connected, said arm being provided with a slot, the bottom wall of which constitutes a continuation of the bottom wall of said groove and having a slot transverse to said first mentioned slot, said last named slot being closed at its rear end except for the first-named slot and open at its forward end, said slots adapted to receive two adjacent links of a brake operating chain for anchoring the chain to said arm, said arm being provided with an opening adjacent to but in advance of the closed end of said last named slot and above the outermost of said two adjacent links for receiving a pin for contacting the link of the brake operating chain that engages the first named slot to prevent its disengagement from said arm.

1,919,185. COOKER AND COOLER. FRANK D. CHAPMAN, Berlin, Wis. Filed May 21, 1930. Serial No. 454,302. 24 Claims. (Cl. 99—2.)



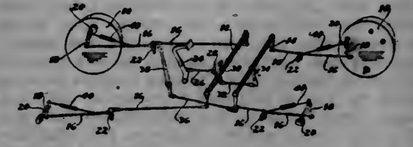
8. A cooker and cooler, comprising an elongated frame, an elongated tank supported thereon and having an inlet opening at one end and an outlet opening at its opposite end, guides on the inner opposite sides of the tank and extending at a downward incline from the inlet opening and then horizontally for a distance and then inclining upwardly to the outlet opening, the horisontal portions being below the surface of water within the tank, an endless bucket conveyor extending through the openings in the tank and below the surface of the water within the tank, the portion extending into the tank engaging the guides and traveling below the surface of the water therein, and an endless belt means having plates which travel with and temporarily cover the conveyor buckets while they are traveling beneath the surface of the water in the tank.

1,919,186. APPARATUS FOR HANDLING BENT METAL. SHELDON DILL COOPER, Youngstown, Ohio, assignor to Republic Steel Corporation, Youngstown, Ohio, a Corporation of New Jersey. Filed Mar. 1, 1930. Serial No. 432,509. 19 Claims. (Cl. 198—33.)



1. Apparatus for handling bent metal having separated edges forming a cleft, comprising retractable means for initially supporting the metal for axial rotation, means cooperating with the metal at the cleft to predeterminedly position the cleft, and means for supporting the metal for axial movement while maintaining the cleft in the predetermined position.

1,919,187. BRAKE HOOK-UP. MARION MORGAN CUNNINGHAM, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois. Filed Oct. 16, 1930. Serial No. 489,022. 9 Claims. (Cl. 188—216.)



2. A brake mechanism comprising a wheel brake double-ended lever operatively connected to said wheel brake, an operating member adjustably connected to one end of said lever, and a spring tensioned between the other end of said lever and said operating member.

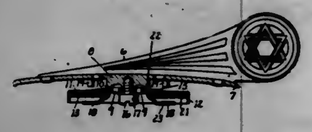
1,919,188. ACTUATED FIGURE. STRATFORD B. ALLEN, Arlington, Mass., assignor to Everett E. Kent, Newton, Mass. Filed June 11, 1931. Serial No. 543,561. 7 Claims. (Cl. 46—49.)



1. In a mechanically actuated figure wherein a spring suspends the figure, and a bouncing floor sets the figure into activity; the combination of said spring, engaging the figure at a point a substantial distance below the top of the figure, but above its centre of gravity; the said spring being shaped and mounted with resilience in both

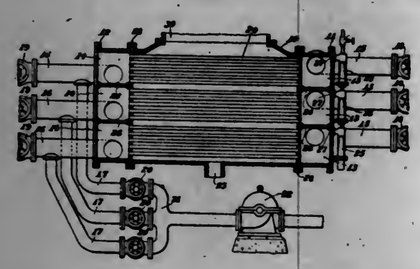
vertical and horizontal directions; and said bouncing floor, being mounted for movement around a point which is offset sufficiently from the plane of that portion of its surface which engages the figure to cause said portion during its bouncing strokes to move obliquely upward at a pronounced angle from the vertical, thereby intermittently engaging the figure, and coacting with the spring to lift and tilt up the figure when so engaging it.

1,919,189. CLOSURE FOR RADIATORS, GASOLINE TANKS, AND THE LIKE. MICHAEL B. ANDRIE, Grand Rapids, Mich., assignor to W. B. Jarvis Company, Grand Rapids, Mich. Filed Mar. 14, 1932. Serial No. 598,753. 10 Claims. (Cl. 220—40.)



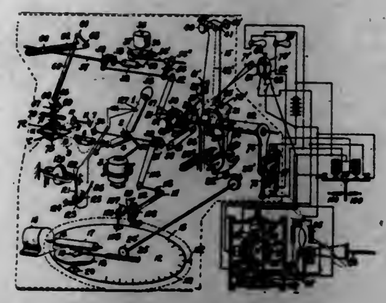
1. The combination of a neck having an inturned flange providing a gasket seat, said flange having oppositely disposed cammed keepers on the edge thereof having stops at their ends, a closure comprising a body member having a central depending stud provided with a lug, a resilient sheet metal closure disk mounted on said stud and having an opening to receive said lug, said closure disk having a downturned flange at its outer edge adapted to receive and to closely embrace said neck for facilitating the positioning of the closure thereon, a gasket arranged within said closure disk flange, a latch plate arranged on said stud in supporting engagement with said closure disk and having an opening to receive said lug, said latch plate having resilient locking fingers coacting with said keepers, said fingers being substantially less yielding than said closure disk, and means securing said disk and latch member on said stud, said body member having depending lugs disposed above and adjacent the rim of said disk for stopping the upward yielding thereof prior to the limit of rotational movement of the closure whereby continued rotational movement of the closure results in the yielding of the locking fingers.

1,919,190. CONDENSER. PAUL A. BANCEL, Montclair, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 11, 1932. Serial No. 628,286. 3 Claims. (Cl. 257—33.)



1. A surface condenser comprising an inlet for steam, a tube nest divided into a plurality of groups of tubes, water boxes communicating with each group of tubes, means selectively to supply circulating cooling water to each group of tubes, and pump means for withdrawing water from any group of tubes.

1,919,191. BOMB SIGHT AND PILOT DIRECTOR. MORTIMER F. BATES, Brooklyn, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed July 18, 1931, Serial No. 551,654. Renewed July 29, 1932. 33 Claims. (Cl. 244—1.)

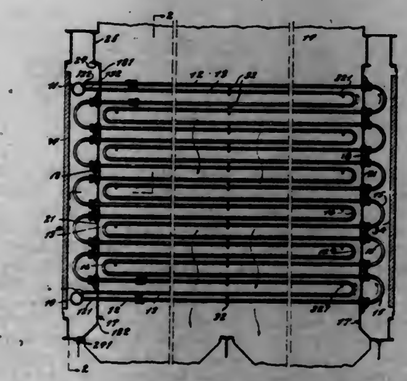


1. In a bomb sight for aircraft, the combination with an optical system, variable speed means for rotating the same in azimuth, manually adjustable means for adjusting said first-named means to maintain the line of sight on the target, and means also operated by said manual means for causing turning of the craft until the ground track becomes a straight line.

3. In a bomb sight for aircraft, the combination with an optical system rotatable in azimuth, a common means for rotating said system to maintain the sight on the target and for simultaneously causing turning of the craft until the straight ground track is reached, and means for determining when such track is reached.

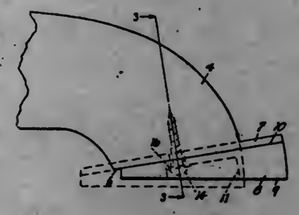
11. The method of approaching a target with bombing aircraft having a bomb sight rotatable in azimuth which comprises setting up a variable rate of turn of the sight sufficient to keep the sight on the target and causing, by such act, turning of the craft at a predetermined substantially constant rate.

1,919,192. FLUID HEATER. ROBERT K. BEHR, New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Apr. 19, 1928. Serial No. 271,183. 22 Claims. (Cl. 257—230.)



1. In combination, a flue adapted to carry heated gases, a fluid heater comprising an inlet and an outlet header, and a plurality of rows of tubular members connected at their ends to the respective headers whereby the fluid flows therethrough in parallel, each row extending across the flue in a plurality of passes, the portions of the tubular members of each row which extend across the flue being connected at one end of the heater by integral bends and at the other end of the heater by removable bends, each of said rows being arranged in a plane extending transversely of the headers.

1,919,193. PEDESTAL FOR TABLES AND THE LIKE. JOHN W. BRIGGS, Ludington, Mich. Filed June 27, 1932. Serial No. 619,379. 6 Claims. (Cl. 45—139.)



1. The combination with a pedestal leg having a bottom surface angularly related to the horizontal and a longitudinal groove therein, of a wedge-shaped foot having a tongue slidably registering with said groove, said foot having a longitudinal recess in the bottom thereof and a smaller slot extending from the bottom thereof to the top of said foot, a pin-like member secured to the bottom of said pedestal and extending through said slot and having a head projecting over the bottom of said recess whereby said foot is slidably attached to said leg and is capable of adjustment relative thereto.

1,919,194. METHOD OF MAKING A PRINTING SURFACE. CHARLES W. BENNETT, Douglaston, N. Y., assignor, by direct and mesne assignments, to Photo-Cast, Inc., Rochester, N. Y., a Corporation of New York. Filed Apr. 7, 1931. Serial No. 528,435. 17 Claims. (Cl. 41—25.)

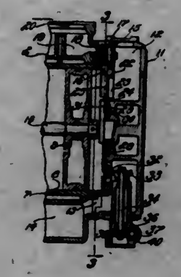


1. The method of producing a relief printing surface which consists in chilling to solidification selected portions of a mass of molten metal; and raising said portions to obtain the desired relief.

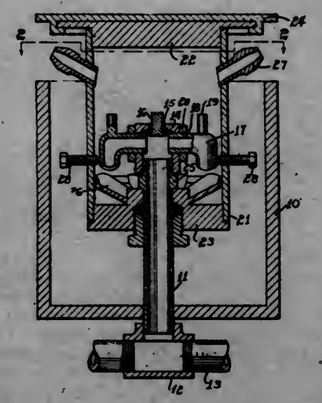
17. The method of producing a relief printing surface which consists in establishing a plate having bare and covered portions; the coating on the covered portions capable of evolving gas when heated; and casting a printing metal on said plate, said metal contacting the bare portions of the plate and separated from the coating of the covered portions by the evolved gas.

1,919,195. PUMPING MECHANISM. HJALMAR T. BLOM, Michigan City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 6, 1931. Serial No. 567,340. 8 Claims. (Cl. 230—24.)

1. In a compressor, in combination, a cylinder having a head, means associated with said cylinder for controlling the inlet of fluid thereto and the discharge of fluid therefrom during normal operation, and separate compressor unloading means for providing a direct communication between the interior of said cylinder and a space at its intake pressure including a rotatable unloading valve coaxial with said head and carried thereby and having operating means.



1,919,196. WHIRLING SPRAYER. JOHN A. BROOKS, Detroit, Mich., assignor to Elmer G. Munz, Detroit, Mich. Filed Jan. 16, 1931. Serial No. 509,050. 15 Claims. (Cl. 299—61.)

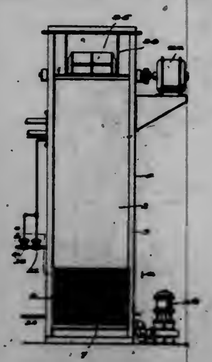


15. In a spraying device, a tube providing a pressure fluid passage, a spray head on said tube, and a clutch responsive to pressure fluid from said passage for automatically rotating said head, said clutch comprising a member rotatable on said tube independently of said head and disposed below the outlet of said fluid passage when in operative position.

1,919,197. AIR CONDITIONING SYSTEM. CLAUDE A. BULKELEY, Buffalo, N. Y., assignor to Niagara Blower Company, Buffalo, N. Y., a Corporation of New York. Filed Jan. 28, 1931. Serial No. 511,783. 10 Claims. (Cl. 261—12.)

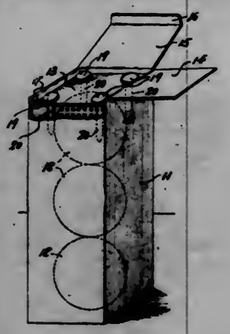
1. In a conditioner for saturating gas with a liquid, a spray chamber, means for forcing a current of gas from

one end of said spray chamber to the other, a cooling coil arranged in said spray chamber, means for spraying liquid



at high velocity from the opposite sides of said coil and to impinge upon said coil and means for passing a refrigerated fluid through said coil to vary its temperature.

1,919,198. CONTAINER FOR GOLF BALLS AND TEES. JOSEPH H. BURNET, Newark, N. J. Filed Jan. 18, 1932. Serial No. 587,248. 9 Claims. (Cl. 206—47.)



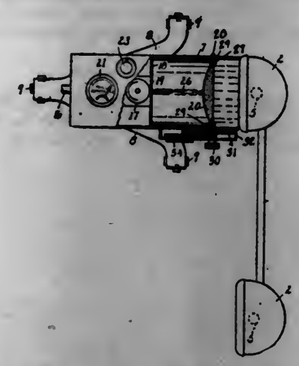
1. A golf ball package, comprising a hollow body of polygonal cross section having transverse internal dimensions substantially approximating the diameters of superimposed balls inserted therein, thus providing corner spaces around the contained balls, and means to support golf tee devices to dispose the same in one or more of said corner spaces.

1,919,199. CONVEYER FOR CYLINDRICAL OBJECTS. LOUIS A. CAMEROTA, Burlington, N. J., assignor to Walter Wood, Philadelphia, Pa. Filed Jan. 13, 1932. Serial No. 586,816. 11 Claims. (Cl. 198—219.)



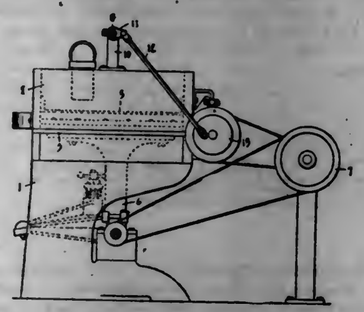
1. A conveyer for cylindrical objects of the character described comprising a table having a flat surface, skids having inclined surfaces movable to positions above and beneath said table, and means for reciprocating said skids to effect intermittent rolling movement of the objects along said table in spaced relation to each other.

1,919,200. HEADLIGHT TESTING DEVICE. HARRY E. CHILDS, Kalamazoo, Mich., assignor to Atlas Press Company, Kalamazoo, Mich. Filed Dec. 14, 1931. Serial No. 581,043. 3 Claims. (Cl. 88—14.)



1. In a device of the class described, the combination of a casing having an open end for receiving the light beam of a headlamp, a light condensing lens mounted in said casing for rotation about a horizontal axis normal to the direction of the light beam, a calibrated scale and a pointer associated with said casing and said lens for indicating the point at which the light beam will strike the road in front of the headlamp, a light screen having a horizontal slit disposed in front of said lens, and a light-sensitive cell disposed in front of said screen and providing with said slit a reference line for said beam of light.

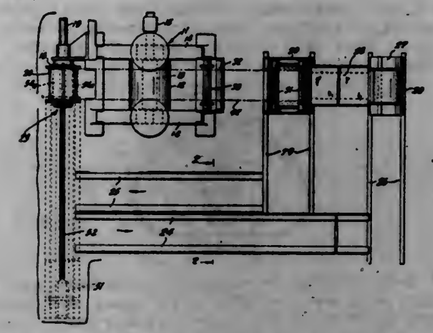
1,919,201. SCREEN FOR PAPER STOCK AND THE LIKE. WILLIAM B. CLEMENTS and GEORGE P. BURGRAF, Kalamazoo, Mich., assignors to Bryant Paper Company, Kalamazoo, Mich. Filed Mar. 24, 1932. Serial No. 600,968. 15 Claims. (Cl. 92—30.)



1. In a screen for paper stock and the like, the combination with a trough provided with a foraminate bottom consisting of a plurality of slitted screen elements disposed transversely of the trough and with their slits longitudinally of the trough, of an upper longitudinal spray pipe rotatably supported centrally above said trough and provided with a plurality of nozzles delivering fan-shaped sprays longitudinally of the spray pipe and arranged so that the sprays of adjacent nozzles overlap, means for oscillating said upper spray pipe so that the sprays discharged therefrom sweep across the foraminate bottom of the trough at right angles to the slits, a plurality of under spray pipes rotatably supported transversely below said trough and centrally relative to said screen elements and each provided with a plurality of nozzles discharging fan-shaped sprays longitudinally thereof against the under sides of the screen elements, and means for oscillating

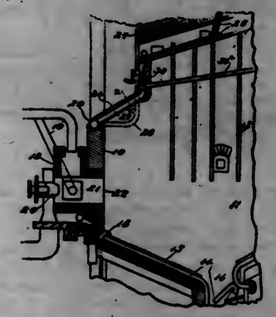
said under spray pipes so that the sprays therefrom sweep across the under sides of the screen elements in the direction of the slits.

1,919,202. ROLLING MILL. JAMES R. COE, Waterbury, Conn., assignor to The American Brass Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 27, 1931. Serial No. 540,301. 14 Claims. (Cl. 80—32.)



1. In a device of the character described, a rolling mill, means at the outlet side of the mill for carrying and rotating a spool on which to wind the metal after being rolled, separate storage means for loaded and empty spools respectively at one side of the mill, means for transferring a loaded spool from the winding device to the first storage means, and means for shifting said transfer means to a position to receive an empty spool from the second storage means and transfer it to the winding mechanism.

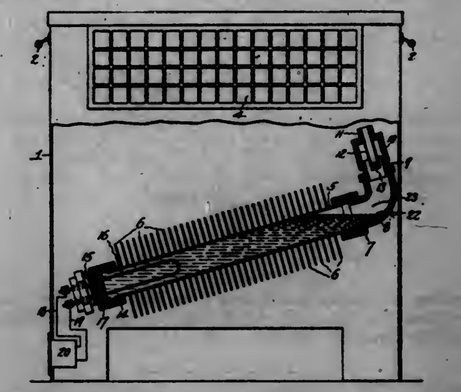
1,919,203. FURNACE. JAY GOULD COUTANT, New York, N. Y., assignor to Furnace Engineering Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 23, 1929. Serial No. 342,039. 4 Claims. (Cl. 122—235.)



1. In a pulverized fuel boiler furnace having a combustion chamber in which the boiler is exposed, a burner admitting fuel and air in a lateral direction through a lateral wall of the chamber, an arch above the burner exposed to the radiant heat, a bottom wall below the burner exposed to the radiant heat, said arch and bottom being arranged to diverge in the direction of fuel admission, and water circulating tubes in both said arch and bottom, in circulation with the boiler.

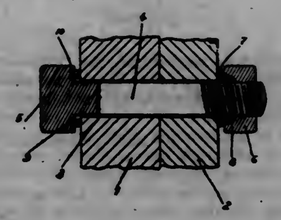
1,919,204. HEATER. WALTER L. DECKER, New York, N. Y. Filed Oct. 22, 1930. Serial No. 490,433. 13 Claims. (Cl. 219—38.)

1. In a heater of the character described, the combination of a hermetically-sealed heat-radiating tube arranged on an inclined axis, said heat-radiating tube being partly filled with a predetermined quantity of heating



fluid, and an electric heating element immersed in said heating fluid for producing a circulation of the heating fluid within said heat-radiating tube.

1,919,205. BOLT AND NUT CLAMPING DEVICE. AUDOIN D'HALLOY, Paris, France, assignor to International Safety Lock Nut Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 11, 1928, Serial No. 325,811, and in France Jan. 20, 1928. 8 Claims. (Cl. 151—19.)

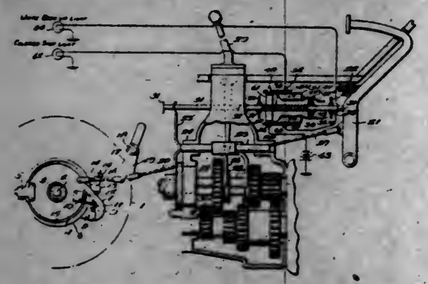


1. In combination with an assembly member, a locking device comprising a bolt adapted to loosely pass through said member, a head extending from said bolt and containing an annular recess, and a washer of the Grower type disposed in said recess and spacing said head from said member, and means associated with said bolt for non-rotatably holding said washer in said recess and rigidly against said member.

1,919,206. SIGNALING SYSTEM FOR AUTOMOTIVE VEHICLES. HARRY A. DOUGLAS, Bronson, Mich. Filed May 16, 1929. Serial No. 363,681. 2 Claims. (Cl. 177—337.)

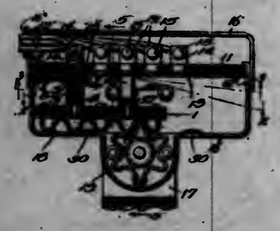
1. The combination with an automotive vehicle having a braking mechanism and travel reversing mechanism; of two electric circuits connected with a common source of current, one circuit including a colored stop light and the other circuit a white back-up light; a normally open switch for controlling each circuit; an operator common to both said switches; a spring constantly urging the operator to one position to close the switch controlling the stop light circuit, said operator being normally positioned against the influence of said spring by the brake mechanism when the latter is idle to permit both switches to remain open and released to the influence of said spring for movement to a position to close said switch controlling

the stop light circuit as the brake mechanism is set; and means operated by the setting of the reversing mechanism to cause said operator to move against the influence of said



spring to another position to close both the switch controlling the stop light circuit and the switch controlling the back-up light circuit.

1,919,207. AUTOMOTIVE VEHICLE SWITCHING MECHANISM. HARRY A. DOUGLAS, Bronson, Mich. Filed Dec. 16, 1929. Serial No. 414,491. 3 Claims. (Cl. 200—16.)



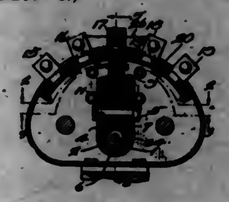
1. In a switching mechanism, the combination with a metallic casing; of a pair of insulating plates received therein, one of said plates being fixed in the casing and the other movable in a plane parallel to the first plate; a rack fixed to said second plate upon its side opposite the first plate, said rack having sliding engagement with a wall of the casing; inwardly bulged portions of said wall frictionally engaging the rack to determine respective positions of the movable plate; a recess in said wall; a pinion in said recess in engagement with said rack, triangularly related springs compressed between the plates and pressing the movable plate into engagement with said wall and said pinion; fixed contacts on said fixed plate; and spring pressed complementary contacts on said movable plate selectively engageable with said fixed contacts upon rotation of the pinion to move said movable plate.

1,919,208. SWITCHING MECHANISM FOR AUTOMOTIVE VEHICLES. HARRY A. DOUGLAS, Bronson, Mich. Filed Jan. 25, 1930. Serial No. 423,414. 3 Claims. (Cl. 200—4.)



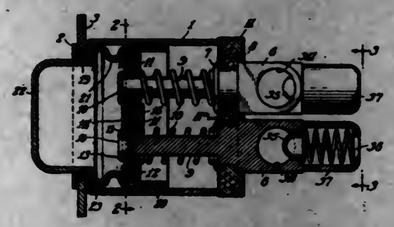
1. In a switching mechanism, the combination with a shaft; of a casing in which the shaft rotates and reciprocates; a plurality of contacts arranged in an arc at one side of the axis of the shaft and in a plane transverse of the axis of the shaft, said contacts being spaced from said shaft a distance substantially greater than the diameter of the shaft; a contact carrier fixed to rotate with said shaft but permitting reciprocation of the shaft therein; and a contact carried by said carrier and engageable selectively with said first mentioned contacts upon rotation of the shaft.

1,919,209. SWITCHING MECHANISM FOR AUTOMOTIVE VEHICLES. HARRY A. DOUGLAS, Bronson, Mich. Filed Jan. 25, 1930. Serial No. 423,415. 2 Claims. (Cl. 200—5.)



1. In a switching mechanism, the combination with a casing; of a sleeve rotatable in the casing, said sleeve having a wall at one end thereof; a hollow shaft in said sleeve but terminating short of the walled end thereof, the shaft being fixed to the sleeve; a shank movable longitudinally in the shaft and extending through said end wall to engage a contact fixed with respect to the casing; a flange on the shank located between the end wall and the end of the hollow shaft adjacent said wall; and a spring between said wall and said flange tending to retract the shank to separate the shank and the contact.

1,919,210. DOOR SWITCH OR THE LIKE. HARRY A. DOUGLAS, Bronson, Mich. Filed Aug. 29, 1932. Serial No. 630,883. 2 Claims. (Cl. 200—51.)

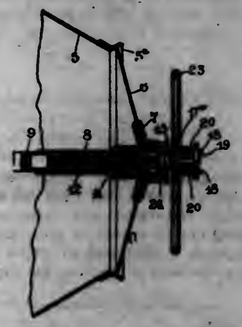


1. As an article of manufacture, a door switch or the like, comprising in combination, a metallic casing; an insulating mounting forming a closure for one end of the casing; two current conducting terminals carried by the mounting and extending in parallel relationship upon the exterior of the casing; a contact member attached to each of the terminals and extending in parallel relationship rigidly within the interior of the casing; an insulating disc in the casing, said contact members having their free ends passing slidably through the insulating disc; a transverse enlargement at the termination of each of the free ends of the contact members; a metallic bridging member carried by the face of said disc and engageable with the transverse enlargements of the contact members to provide a current conducting bridge therebetween; a coil spring surrounding each of the contact members between the disc and the insulating mounting and pressing the bridging member against the transverse enlargements; and a cup-like actuator slidably carried by the end of the casing opposite the insulating mounting and having a skirt portion telescoped within the casing, said skirt portion receiving therein the disc and the free ends of the contact members and having an internal abutment engaging the disc axially of the casing, said cup-like actuator having a button portion projecting through an aperture in the end of the casing opposite the insulating mounting.

1,919,211. ALLOY STEEL. DANIEL L. EDLUND, Cambridge, Mass., assignor to Ludlum Steel Co., Watervliet, N. Y., a Corporation of New Jersey. Filed Apr. 20, 1932. Serial No. 606,517. 8 Claims. (Cl. 75—1.)

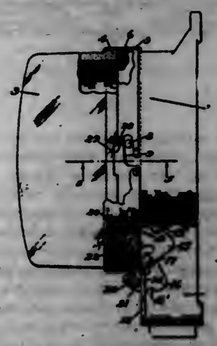
1. An alloy steel susceptible to hardening by nitrogenization and characterized by its easy machining properties containing carbon in effective amounts up to 1%, chromium from 0.5% to 4%, aluminum from 0.5% to 2%, molybdenum from 0.10% to 0.50%, and sulphur from 0.10% to 0.25%; the balance being principally iron.

1,919,212. CLOSURE FOR CONCRETE MIXERS. JOSEPH EGGERT, Columbus, Ohio, assignor to The Jaeger Machine Company, Columbus, Ohio, a Corporation of Ohio. Filed June 2, 1931. Serial No. 541,654. 11 Claims. (Cl. 220—25.)



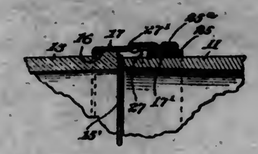
1. In means of the kind described, a mixing vessel having an opening, a closure for said opening provided with a sleeve, means connected with the vessel for slidably supporting the closure at said sleeve, said means provided with a fixed nut, and a screw to engage said nut and closure for moving the closure to said opening.

1,919,213. ELECTRICITY METER. ALBERT L. EMENS, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a Corporation of Illinois. Filed Apr. 21, 1930, Serial No. 446,036. Renewed Apr. 30, 1932. 4 Claims. (Cl. 171—34.)



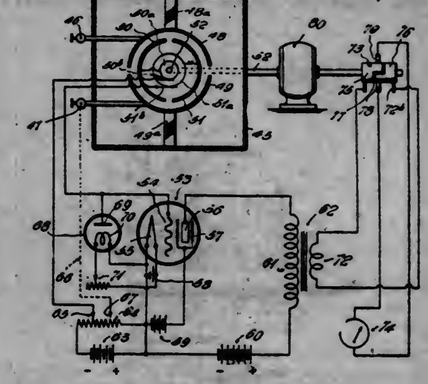
1. In an electricity motor meter, the combination of a base; a cup shaped glass cover whose rim engages said base and is laterally extended to form a flange; a metal band surrounding the cover flange and contiguous portion of the meter base; said band being formed of an outer and inner ring that are secured together, the inner ring lapping the outer flat face of the cup rim and the outer ring having an inwardly projecting rim, this rim and the inner ring together defining a groove in which the flange is snugly received; and separable interengaging formations provided upon said base and band, operable to hold the cover upon the base.

1,919,214. ELECTRICITY METER. ALBERT L. EMENS, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a Corporation of Illinois. Filed Sept. 24, 1931. Serial No. 564,945. 12 Claims. (Cl. 171—34.)



4. The combination with an electricity meter cover; of a band carried thereby, said band being formed of a metal strip encircling the cover, a sealing bracket connecting the ends of the strip to complete the band, and means preventing displacement of the band axially of the cover.

1,919,215. THUNDERSTORM OR ELECTRIC FIELD AND POTENTIAL INDICATOR. ROSS GUNN, Washington, D. C. Filed Mar. 17, 1930. Serial No. 436,478. 15 Claims. (Cl. 171—95.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

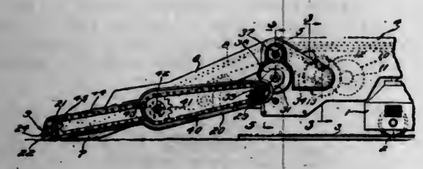


14. A device for indicating the presence of electrostatic charges which comprises dynamic means influenced by the field of a charge for deriving periodic currents therefrom, and means for indicating said currents.

1,919,216. PROCESS OF AMMONIA OXIDATION. STANLEY L. HANDFORTH and WILLIAM E. KIRST, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 21, 1929. Serial No. 387,559. 20 Claims. (Cl. 23—162.)

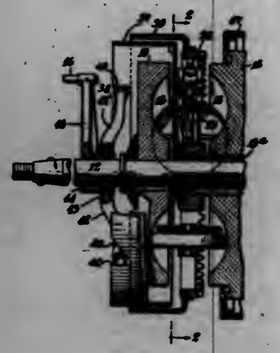
1. In the process of oxidizing ammonia to oxides of nitrogen, the step which comprises bringing a mixture of gaseous ammonia and an oxygen containing gas into contact with a catalyst containing a metal of the platinum group having per unit of cross-sectional area of the gas stream an exposed surface greater than that of four thicknesses of 80 mesh .003" diameter wire gauze.

1,919,217. LOADING MACHINE. ANDREW HAUGH, Michigan City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 19, 1930. Serial No. 503,503. 13 Claims. (Cl. 198—10.)



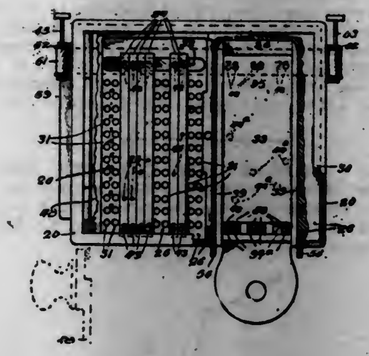
1. In a loading machine, the combination with a shovel and conveying means extending toward the forward edge of said shovel, of material gathering means comprising a rotatable material gathering element guided on said shovel, and mechanism for rotating and simultaneously bodily moving said gathering element relative to said shovel to gather and move the material to be loaded onto the conveying means.

1,919,218. VARIABLE SPEED POWER TRANSMISSION MECHANISM. FRANK A. HAYES, Middletown, N. J. Original application filed May 7, 1929, Serial No. 361,031. Divided and this application filed Feb. 2, 1932. Serial No. 590,360. 6 Claims. (Cl. 74—34.)



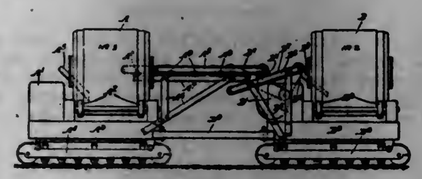
2. A transmission mechanism having, in combination, coaxial friction disks provided with grooves of circular cross section in their opposed faces, friction rollers cooperating with the grooves and spaced apart around the axis of the disk, carriers for the rollers adapted to rock on axes transverse to the axes of their respective rollers, rockers cooperating with the carriers to support the same, each rocker cooperating with two carriers, and a support on which the rockers are pivoted at points adapted to cause substantial tilting movement of the carriers when the rockers are rocked.

1,919,219. CARD PRINTING AND PUNCHING MECHANISM. MORRIS J. HOFFMAN, Chicago, Ill., assignor to The Tabulating Machine Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 22, 1931. Serial No. 558,643. 14 Claims. (Cl. 101—19.)



1. In printing and punching mechanism, the combination with a platen and a die, of a head, and related type and punches removably and interchangeably carried by said head and co-operating with said platen and die to print data on a card and to punch holes therein corresponding to the data printed by the type.

1,919,220. APPARATUS FOR MIXING CONCRETE. WILSON A. JAICKS, Chicago, Ill. Filed June 3, 1931. Serial No. 541,923. 3 Claims. (Cl. 83—73.)



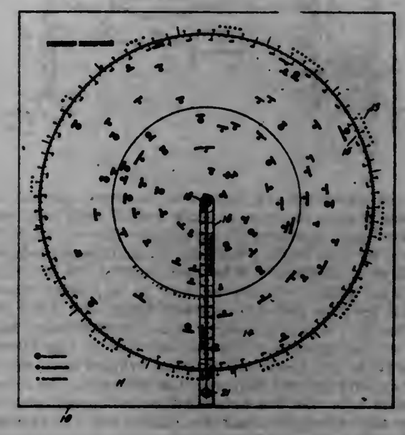
1. A concrete mixing apparatus comprising a plurality of mixing drums, separate supporting and operating means therefor, a belt conveyor system interposed between them comprising a separate framework mounted on each drum supporting means, a separate belt conveyor mounted on each framework, one belt conveyor adapted to receive material from the first drum and discharge it to the other conveyor, which conveyor discharges material to the second drum, the first conveyor being movable as a unit along a generally horizontal path toward and from the first drum whereby when moved toward the drum it projects thereinto and is adapted to receive material, drive means for said conveyors mounted on the support for the second drum, and a discontinuous driving connection between the first conveyor and the drive means and means for causing its operation when the first conveyor is projected into its associated drum.

1,919,221. MULTIPLE GRIP HANDLE. HARRY S. JANES, Shanghai, China. Filed Oct. 15, 1931. Serial No. 568,917. 3 Claims. (Cl. 273—81.)



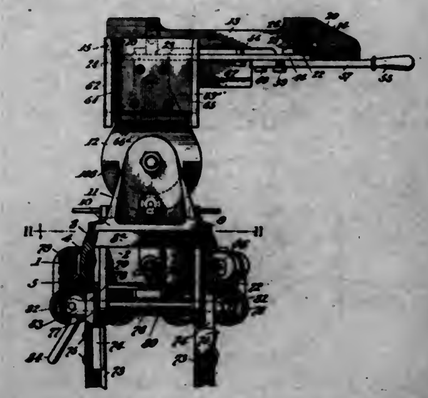
1. A golf club having a shaft split at one end to form two half-round extensions, a pair of half-round inserts applied to the two extensions to form multiple grips, and leather wrappings around said extensions to form grips.

1,919,222. NAVIGATIONAL INSTRUMENT. HENRY M. JENSEN and JOHN E. GINGRICH, U. S. Navy, and GUILLERMO MEDINA, Washington, D. C. Filed Jan. 3, 1933. Serial No. 649,958. 6 Claims. (Cl. 235—83.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



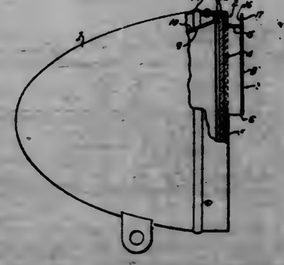
1. A navigational instrument, comprising a base upon which is graduated a date scale, a disk pivoted at the center of said date scale and having graduated on its edge an hour scale, said hour scale being associated with said date scale to facilitate the adjustment of one in relation to the other, said disk having located thereon the celestial navigational bodies in their true correlative positions the polar zenith and the celestial equator, and a semi-permanently fixed arm pivoted at said polar zenith and extending beyond the edge of said disk, said arm having a median line for indicating on said hour scale the corresponding sidereal time for any particular adjustment of the hour scale in relation to the date scale, said arm also having graduations thereon for indicating both the latitude of the observer and the declinations of the celestial bodies.

1,919,223. MACHINE GUN MOUNT AND LOCKING DEVICE THEREFOR. GREENHOW JOHNSTON, Glen Allen, Va., assignor of one-half to Greenhow Maury, Jr., Richmond, Va. Filed Apr. 10, 1931. Serial No. 529,216. 29 Claims. (Cl. 89—40.)



1. A machine gun support including a cradle base forming a rest for a gun, cradle side forming non-yielding gun clamping members and movable toward and from said base, and means to move said sides into and out of clamping and locking position.

1,919,224. ANTIGLARE SHIELD FOR HEADLIGHTS. JOHN L. KELLY, St. Louis, Mo. Filed Nov. 27, 1931. Serial No. 577,505. 3 Claims. (Cl. 240—48.4.)

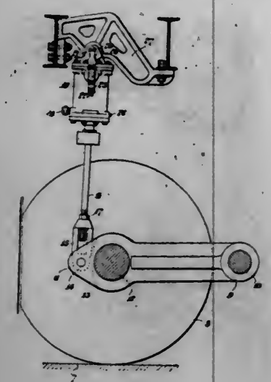


1. In combination with a motor vehicle headlight having a lens and a retaining ring for holding said lens in place, an anti-glare device comprising a shield of semi-circular shape adapted for arrangement adjacent to the outer face of the upper portion of the lens of said head light, said shield comprising a front wall arranged substantially parallel with respect to said lens and in spaced relation therewith, a continuous arcuate wall extended between said lens and said front wall of the shield, and an outwardly extended arcuate flange disposed between said lens and the retaining ring therefor so as to secure the shield in place, said front wall, arcuate wall, and flange being in the form of a one-piece integral structure.

1,919,225. PRESSURE CONTROL FOR MULLER ROLLERS. HOWARD K. KING, Philadelphia, Pa., assignor to Chambers Brothers Company, a Corporation of Pennsylvania. Filed Nov. 14, 1930. Serial No. 495,682. 4 Claims. (Cl. 88—45.)

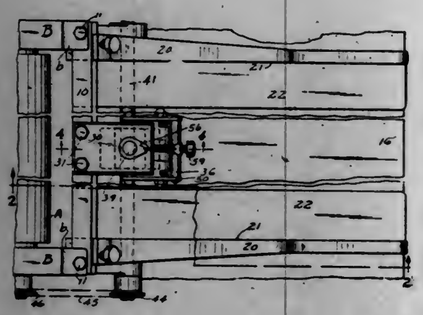
1. In a muller roller control, means for normally utilizing the force of a body of compressed elastic fluid

medium for augmenting the crushing pressure of the roller, and means effective upon the upward movement of the roller for trapping and further compressing a rela-



tively small portion of said body of compressed elastic fluid, thereby automatically increasing said augmented pressure.

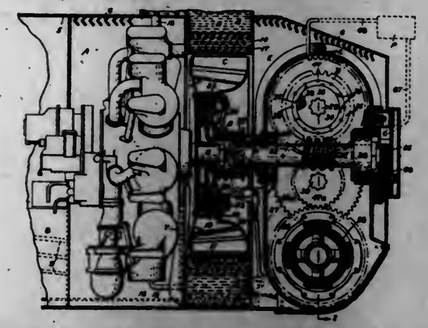
1,919,226. PAPER FEEDING MECHANISM. IRVING C. KLEPPER, Cleveland, Ohio, assignor to Multigraph Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 30, 1931. Serial No. 577,973. 20 Claims. (Cl. 271—52.)



1. A paper feeding mechanism, comprising a transverse supporting bar, a pair of guide bars adjustably clamped to the supporting bar, and a centrally located rotary feeding unit carried by the supporting bar between the guide bars.

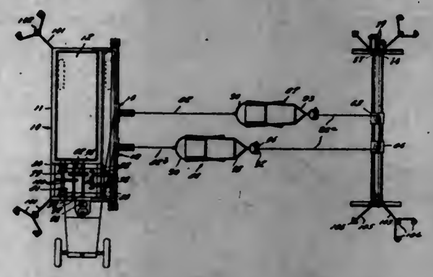
1,919,227. POWER PLANT. HARRY A. KNOX and BERT F. BAKER, Davenport, Iowa. Filed Oct. 21, 1931. Serial No. 570,140. 10 Claims. (Cl. 180—54.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

1. A power plant including a motor, a flywheel for the motor including an element of a clutch and a fan, a radiator encircling the fan, a change speed transmission casing adjoining the fan, a transmission shaft including a worm mounted in the casing, an element of a clutch on the shaft cooperating with the first named clutch element, transverse countershafts in the casing, one above and one below the shaft, a worm wheel including an overrunning clutch on the upper shaft and



meshing with the worm, change speed gears on the countershafts, and a final drive unit directly below the lower countershaft.

1,919,228. DRAG LINE EXCAVATOR. FREDERICK LANG, Cincinnati, Ohio. Filed Aug. 10, 1932. Serial No. 628,234. 3 Claims. (Cl. 37—115.)

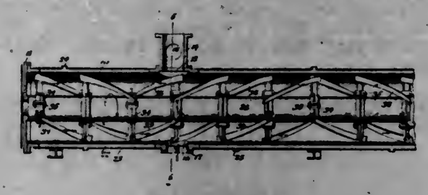


3. In an excavating apparatus, a frame member, supporting means therefor, a track spaced from said frame member and extending in parallelism thereto, supporting means for said track, a carriage on said frame member, a carriage on said track, a jib supported on the first named carriage, pulleys carried by said jib, a pulley mounted on the carriage movable over said track, means for shifting the first named carriage relative to the frame, means for shifting the second named carriage in one direction relative to the track, cable means trained over the pulleys on said jib and also over the pulley on the carriage movable over the track, a scraper connected with said cable means, winch means for paying out and taking up said cable means, and said cable means also serving as a means for moving the carriage on said track in a second direction along said track.

1,919,229. ROTARY DRIER. CHARLES O. LAVETT, Buffalo, N. Y., assignor, by mesne assignments, to Buffalo Foundry & Machine Co., Buffalo, N. Y., a Corporation of New York. Continuation of application Serial No. 125,947, filed July 30, 1926. This application filed June 3, 1931. Serial No. 541,960. 3 Claims. (Cl. 34—7.)

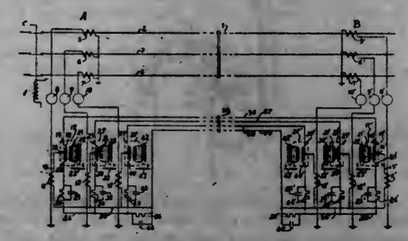
1. A drier comprising a cylinder having an inlet opening through which the material to be treated is fed and an outlet opening through which the treated material is discharged, a shaft arranged lengthwise in said cylinder, a series of groups of blades carried by said shaft, one of the blades in each group being inclined in the direction of its length in one direction and another blade in each

of said groups being inclined in the opposite direction of its length in the opposite direction, whereby upon rotation of said shaft one of the blades in each of said groups tends to move the material in one direction lengthwise of the cylinder while another of the blades in said group tends to move the material in the opposite direction lengthwise



of said cylinder, the corresponding ends of the blades of each group extending into the spaces between the blades of the adjacent group whereby the path traversed by each group of said blades overlaps the paths of adjacent groups of blades thereby insuring uniform agitation of the material within the cylinder.

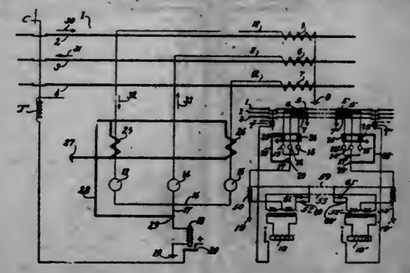
1,919,230. METHOD OF RELAYING BY CURRENT TRANSFORMER AND RELAYS. TITUS G. LE CLAIR, Chicago, Ill. Filed July 18, 1929. Serial No. 378,040. 29 Claims. (Cl. 175—294.)



1. In an electric power system, a power line, a set of pilot transformers one end of each of which is connected to a neutral, a similar set of pilot transformers similarly connected, the opposite ends of the first mentioned transformers being connected to the opposite ends of the corresponding transformers of the second set, the neutrals of the two sets being connected together, means for sending through the midpoint of each of the first mentioned set of transformers a current which is a function of the current flowing in corresponding conductors of the power line at one point thereof, and means for sending through the midpoint of the second set of transformers a current which is a function of the current flowing at a different point in the corresponding conductors of the same power line.

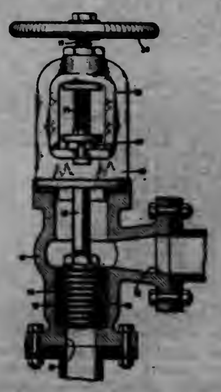
1,919,231. UNBALANCED RATIO RELAY SCHEME. TITUS G. LE CLAIR and CHARLES M. GROSS, Chicago, Ill. Filed July 31, 1929. Serial No. 382,557. 18 Claims. (Cl. 175—294.)

1. In a polyphase alternating current system wherein line current transformers are connected to measuring instruments for measuring the energy flow and wherein electroresponsive means for isolating the line is energized in accordance with the excess current flowing through one of the line current transformers upon the occurrence of a ground fault on only one of the line conductors, means for energizing the electroresponsive means responsive to an excess current flow in two or more of the line conductors, said last means comprising current transformers of unequal ratio having their primaries connected respectively



in circuit with two of the line current transformers and their secondaries connected to furnish current to the electroresponsive means.

1,919,232. VALVE. HENRY B. LEE, Troy, N. Y., assignor to The Ludlow Valve Manufacturing Company, Troy, N. Y., a Corporation of New Jersey. Filed Feb. 8, 1932. Serial No. 591,551. 25 Claims. (Cl. 251—162.)

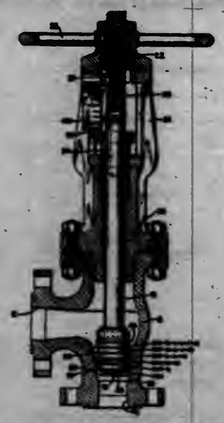


4. A valve comprising a fixed part and an adjustable part forming between them when the valve is open a flow passage increasing in flow area from one end toward another, said passage comprising a plurality of expansion receiving chambers intermediate the valve inlet and outlet, said chambers being defined by annular ribs lying in planes transverse to the flow passage, the wall of said expansion chambers curving from one rib to the next adjacent rib whereby fluid impinging on said wall is deflected and directed opposite to the direction of flow of the fluid and toward and into the stream of fluid whereby the velocity of the fluid is retarded.

1,919,233. VALVE. HENRY B. LEE, Troy, N.Y., assignor to The Ludlow Valve Manufacturing Company, Troy, N. Y., a Corporation of New Jersey. Filed Feb. 19, 1932. Serial No. 593,973. 30 Claims. (Cl. 251—27.)

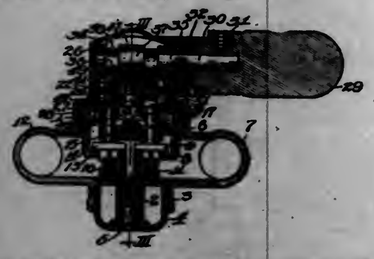
6. A valve comprising a fixed part and an adjustable part forming between them when the valve is open a flow passage increasing in flow area from one end toward another, said passage comprising a plurality of expansion receiving chambers intermediate the valve inlet and outlet, said chambers being defined by annular coacting rigs on said parts lying in planes transverse to the flow pas-

sage, the wall of said expansion chambers curving from one rib to the next adjacent rib whereby fluid impinging



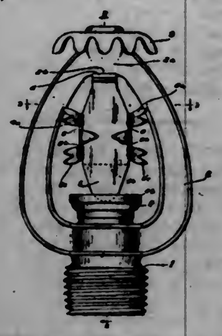
on said wall is deflected in a direction opposed to the direction of flow of the fluid and toward and into the stream of fluid whereby the velocity of the fluid is retarded.

1,919,234. MIXING VALVE. FRED A. LEIGH, Chicago, Ill. Filed Dec. 17, 1930. Serial No. 502,915. 20 Claims. (Cl. 277—20.)



1. A mixing valve device comprising a casing, a plurality of valves therein, a plurality of telescoping control means in said casing, an eccentric shaft for simultaneously actuating said control means to independently operate said valves, and a single control for operating the eccentric shaft.

1,919,235. SPRINKLER HEAD. ALBERT LOMPSINGER, Providence, R. I., assignor to General Fire Extinguisher Company, Providence, R. I., a Corporation of Delaware. Filed Jan. 22, 1932. Serial No. 588,092. 10 Claims. (Cl. 169—39.)



9. An automatic sprinkler having means for holding the sprinkler closed comprising fusible material located so as to be shielded from passing heat currents; and heat gathering means arranged to extend into said currents and get heat therefrom that would otherwise not affect the fusible material and conduct said gathered heat to the fusible material.

1,919,236. WINDSHIELD CLEANER. LOUIS LUNSFORD, Muskegon, Mich., assignor to Lunsford Manufacturing Co., Muskegon, Mich., a Corporation of Michigan. Filed Oct. 31, 1930. Serial No. 492,509. 2 Claims. (Cl. 15—250.)



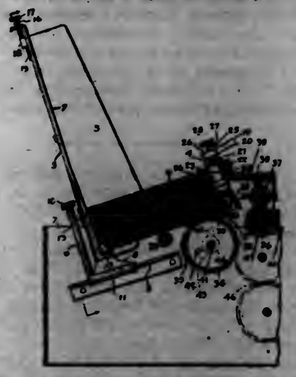
1. An attachment for windshield wipers comprising an anti-freeze holder, and a U shaped spring clip adjustably and frictionally engaging said holder and having spaced integral U shaped spring fingers detachably and adjustably engageable with a windshield wiper blade holder.

1,919,237. SHEET METAL CONTAINER. WILLIAM W. MAHER, San Francisco, Calif., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed May 8, 1931. Serial No. 536,009. 10 Claims. (Cl. 220—42.)



1. A sheet metal container, comprising a body, an annulus seamed to the body by its inner edge in a double seam arranged within the body and having its outer part arranged outside of the seamed part of the body to form an external friction wall, and a slip cover for engaging said friction wall.

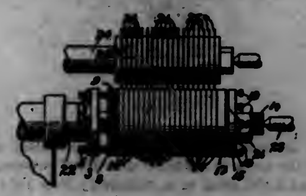
1,919,238. SHEET FEEDER. FLORENCE MCCARTHY, New York, N. Y., assignor, by mesne assignments, to McCarthy Business Machines Co., Inc., New York, N. Y., a Corporation of Delaware. Filed Oct. 17, 1928. Serial No. 313,006. 11 Claims. (Cl. 271—41.)



1. In a sheet feeder, the combination of means for holding a column of sheet articles, a feeding device at one

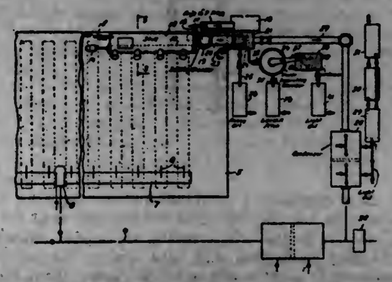
end of the column, said device comprising a continuously driven rotary part, and a revoluble feeding element in driven relation to said part, the relation being such that said element is free to be moved forwardly with respect to said rotary part, and means for receiving articles successively protruded by said element and moving them onward at increased speed, the construction of the feeding device being such that the feeding element is restrained from proceeding around and engaging an article under the momentum acquired from such increase in speed.

1,919,239. KNURLED PISTON RING ARBOR. THURLOW E. MCFALL, Sparta, Mich. Filed Apr. 21, 1930. Serial No. 445,947. 8 Claims. (Cl. 82—44.)



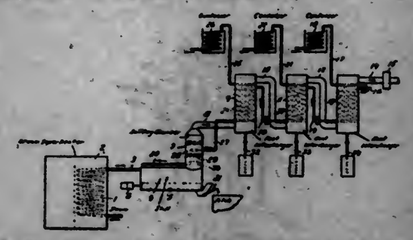
8. In a construction of the class described, a horizontal shaft, a plurality of arbor members located around the shaft and lengthwise thereof, interengaging means between the shaft and inner sides of said arbor members for moving said members radially outward on longitudinal movement thereof in one direction along the shaft, means for moving said arbor members lengthwise of the shaft to expand the same outwardly, means to stop the longitudinal movement of said members, and means to yieldingly hold the piston ring castings against each other during the time of radial outward movement of said arbor members.

1,919,240. METHOD AND APPARATUS FOR THE DISTILLATION OF TAR. STUART PARMELEE MILLER, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 10, 1929. Serial No. 331,600. 10 Claims. (Cl. 202—30.)



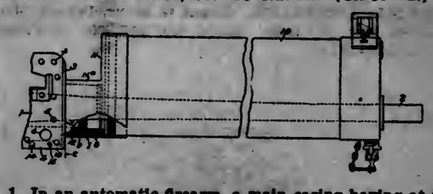
1. The method of distilling coal tar and of producing simultaneously distillate, a high melting point pitch and a low melting point pitch, which comprises distilling the tar by direct contact with highly heated inert gases and regulating the supply of tar and the contact of the tar and pitch with the gases so as to produce pitch of high melting point and enriched gases at high temperature, drawing off the high melting point pitch so produced, passing the hot enriched gases into indirect contact with tar to heat the tar and simultaneously cool the hot enriched gases, regulating the supply of tar to be so heated so as to remove distillate therefrom and produce a low melting point pitch and so as to condense oil from the hot enriched gases, drawing off and separately condensing the distillate, and drawing off the low melting point pitch.

1,919,241. DISTILLATION OF TAR. STUART PARMELEE MILLER, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 28, 1929, Serial No. 417,195. Renewed Sept. 19, 1932. 10 Claims. (Cl. 196—76.)



6. The improvement in the distillation of tar with steam superheated to a temperature between 600 and 1000° C., which comprises passing the superheated steam through a still while spraying the tar into the steam in the form of a spray so fine and intense that the tar rapidly distills to pitch by the self-contained heat of the steam and the steam is rapidly cooled to a temperature approximating that of the spray while continuously adding tar to the still and withdrawing pitch residue therefrom.

1,919,242. COOLING SYSTEM FOR FIREARMS. FREDERICK T. MOORE, East Hartford, Conn., assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn., a Corporation of Connecticut. Filed May 14, 1931. Serial No. 537,283. 13 Claims. (Cl. 89—1.)



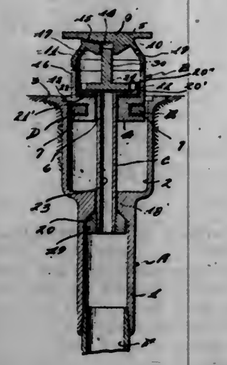
1. In an automatic firearm, a main casing having at the forward end thereof means comprising two separate portions adapted respectively for the attachment of two different interchangeable barrel jackets.

1,919,243. ROTARY SPRINKLER. HAROLD R. MUNZ, Detroit, Mich., assignor to Elmer G. Munz, Detroit, Mich. Filed May 26, 1930. Serial No. 455,830. 7 Claims. (Cl. 299—61.)



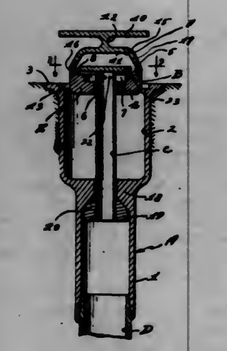
1. In a sprinkler, a casing, an axially movable stem within the casing, a nozzle mounted on the stem for rotation relative thereto, and fluid actuated means rotatably mounted upon the stem and engageable once each revolution thereof with said nozzle to actuate the same.

1,919,244. ROTARY SPRAYING DEVICE. ELMER G. MUNZ, Detroit, Mich. Filed May 26, 1930. Serial No. 455,868. 11 Claims. (Cl. 299—61.)



7. In a sprinkler, a rotatably and axially movable nozzle head, a liquid supply conduit extending within said nozzle head and adapted to discharge liquid thereinto in a manner to cause rotation of the head by the internal action of the liquid.

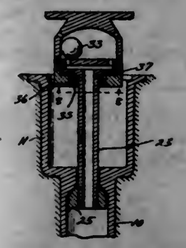
1,919,245. SPRINKLER. ELMER G. MUNZ, Detroit, Mich. Filed May 26, 1930. Serial No. 455,869. 8 Claims. (Cl. 299—61.)



8. In a sprinkler, a non-rotatable member provided with means for discharging water radially, a rotatable member surrounding the discharge end of said stationary member and having a closed water chamber therein, means on said rotatable member in the path of said radial discharge for rotating said member from the impact of the water, a discharge outlet in said rotatable member, and means intermediate said radial discharge means and said discharge outlet for creating a back pressure whereby said rotating member is hydraulically balanced.

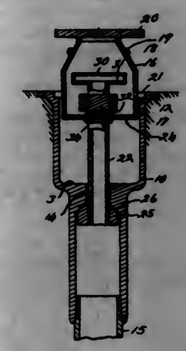
1,919,246. ROTARY SPRINKLER. ELMER G. MUNZ, Detroit, Mich. Filed Dec. 21, 1931. Serial No. 582,458. 10 Claims. (Cl. 299—67.)

1. In a sprinkler, a tubular stem communicating at one end with a source of water under pressure, a water distributing head communicating with said stem for receiving water under pressure and loosely mounted upon the stem for movement in transverse directions relative to the latter, and means operable by the water discharged into



said head for continuously urging said head outwardly relative to the stem in different directions causing the head to roll around the stem at a relatively slow rate of speed.

1,919,247. ROTARY SPRINKLER. ELMER G. MUNZ, Detroit, Mich. Filed Dec. 21, 1931. Serial No. 582,460. 8 Claims. (Cl. 299—61.)

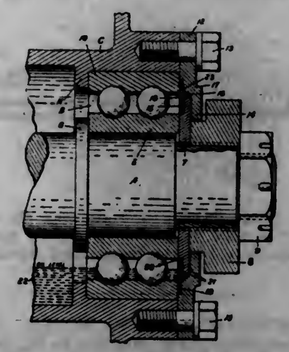


2. In a sprinkler, a rotatable distributing head having a nozzle, an impeller mounted within said head for rotation relative to the latter, means above said impeller for discharging water into said head against the impeller in a direction to exert a torque on the latter about the axis of the same, and means operable upon rotation of the impeller to exert driving impact impulses on said head.

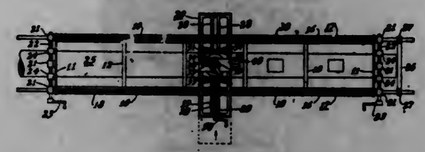
1,919,248. FLUID SEAL FOR ROTATABLE MEMBERS. EDWARD A. MURPHY, U. S. Army, Raritan Arsenal, Metuchen, N. J. Filed Dec. 10, 1930. Serial No. 501,327. 1 Claim. (Cl. 308—187.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

A bearing member, an antifriction bearing unit carried by the bearing member, a rotatable member supported by the bearing unit, a washer fixed to the rotatable member and confining one portion of the bearing unit, a cover plate fixed to the bearing member and confining another portion of the bearing unit, said cover plate being offset

for disposition exteriorly of the washer and spaced therefrom, the rim of the washer and the opposite surface of the cover plate being spaced and inclined, and a disc carried by the cover plate for disposition interiorly of the washer, said disc spaced laterally and peripherally from the washer.



1,919,249. POLE GAINING MACHINE. VAUGHN G. OLIVER, Birmingham, Ala. Filed Sept. 21, 1931. Serial No. 563,963. 10 Claims. (Cl. 144—133.)

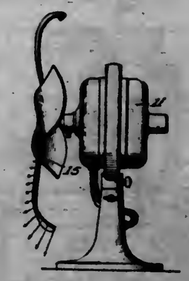


1. A gain cutter for poles, comprising a frame adapted to be clamped to the pole, fixed guides on the frame, and a motor carriage transversely movable under control of said guides and comprising a crank operated feed screw, said guides being adapted to coact with the feed screw to effect a feed of the carriage.

5. A machine of the character described comprising an elongated frame, means to mount it on the pole, a motor which drives a rotary cutter head in a horizontal plane, a motor carriage transferable to different operating positions on the main frame, guides for the carriage, means to reciprocate the motor carriage, an adjustable gauge working in advance of the cutter head and by engagement with the pole to predetermine the depth of the cut, and means to vertically adjust the motor and gauge to bring the latter into contact with the top of the pole in advance of the cutting operation.

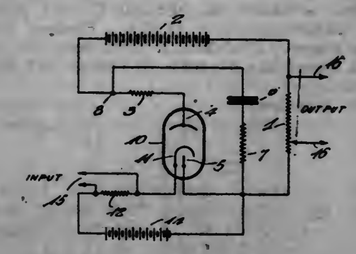
1,919,250. PROPELLER WHEEL FOR FANS. ALEX H. OLSON, Evanston, Ill., assignor to Joseph W. Droll, Chicago, Ill. Filed Nov. 6, 1931. Serial No. 573,316. 2 Claims. (Cl. 170—159.)

1. As a new article of manufacture, a wheel for propelling air comprising a hub adapted for connection to a drive shaft, and a plurality of blades connected to and projecting outwardly from the hub, each of said blades consisting of an outwardly flared, transversely inclined inner part extending outwardly from the hub and having the leading and trailing edges thereof curved rearwardly with respect to the direction of rotation of the wheel in a substantially spiral manner, an intermediate part extending outwardly and backwardly from the outer portion of the inner part and rearwardly with respect to the direction of rotation of the wheel and shaped so as to propel another portion of the propelled air forwardly and outwardly in gradually increasing degree from the axis of rotation, and a tapered tip extending backwardly from the rearmost portion of the intermediate part substantially longitudinally with respect to the axis of rotation of the wheel constituting a sweep-back formation



whereby the air sliding off the rearmost part of the intermediate part is deflected outwardly during rotation of the wheel.

1,919,251. FREQUENCY DIVISION SYSTEM. ROBERT M. PAGE and WESTLEY F. CURTIS, Washington, D. C. Filed Dec. 24, 1930. Serial No. 504,604. 5 Claims. (Cl. 250—36.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

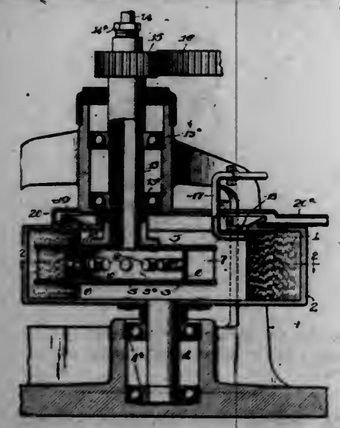


1. A frequency division circuit comprising a gas discharge tube including a cathode, an anode and a control electrode, an input circuit connected between said cathode and said control electrode of said gas discharge tube, a source of constant potential connected in said input circuit, a resistance element in said input circuit, an output circuit connected between said cathode and said anode of said gas discharge tube, a source of potential connected in said output circuit, a resistance element in said output circuit, an auxiliary circuit connected between said cathode and said anode, said auxiliary circuit including a condenser connected to discharge across said cathode and anode for effecting a division in frequency of energy applied across the resistance in said input circuit, and means for deriving energy at said divided frequency across the resistance in said output circuit.

1,919,252. AIR COMPRESSOR. WIN W. PAGET, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 15, 1931. Serial No. 568,928. 7 Claims. (Cl. 230—79.)

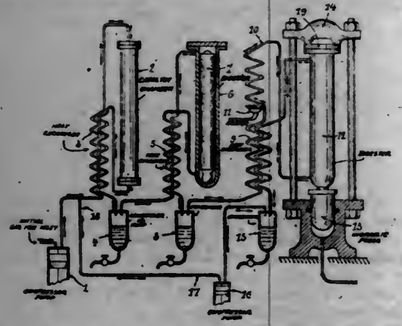
1. An air compressor comprising a drum mounted to rotate freely about a vertical axis and having a closed bottom and a top inlet, a driven rotor mounted within said drum with its axis offset from but parallel to the axis thereof, and a predetermined quantity of liquid within said drum, said drum, liquid and rotor being adapted to rotate simultaneously whereby said liquid under centrifugal force becomes an annular mass having its surface substantially concentric with the axis of rotation of the drum, said rotor having a plurality of radially opening pockets about its periphery, means for admitting air

to said drum and within the space surrounded by the liquid whereby the same is trapped within the pockets and carried thereby below the surface of the liquid to be



compressed thereby, and means for automatically releasing the compressed air from the bottom of said pockets when the stage of maximum compression is reached.

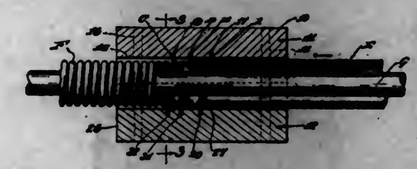
1,919,253. METHOD OF DESTRUCTIVELY DISTILLING CARBONACEOUS FUELS. GEORGES PATART, Paris, France. Filed Mar. 8, 1926, Serial No. 93,316, and in France Mar. 21, 1925. 16 Claims. (Cl. 202—9.)



1. In the process of destructively distilling material taken from the class consisting of normally solid and liquid carbonaceous materials which yield substantial amounts of volatile products upon distillation, the steps which comprise carrying out an exothermic hydrogenation of a carbon compound under an elevated temperature and pressure sufficient to cause said reaction to take place, said reaction being of a character which will produce, under reaction conditions, a gaseous mixture containing reaction products and unreacted gases, withdrawing the hot compressed gaseous mixture, and contacting said hot compressed gaseous mixture with a body of said carbonaceous material to be destructively distilled whereby to impart to said material the heat and pressure requisite for effecting any destructive distillation thereof, said carbonaceous material being obtained from a source independent of said reaction.

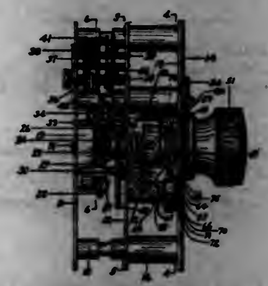
1,919,254. DIE FOR PRODUCING SPIRALLY CORRUGATED TUBING. ANGELO PICECE and STEPHEN GUARNASCHELLI, Long Island City, N. Y. Filed July 18, 1928. Serial No. 293,727. 4 Claims. (Cl. 153—71.)

1. A device of the character described, comprising a die member formed of two parts having complementary recesses, means for positioning and holding said parts so as to aline them properly, said parts being provided with die plates disposed at different angles, the working edge



of said die plates forming a continuous die thread so that the device may be placed on a tube and rotated while the tube is held stationary to form corrugated tubing.

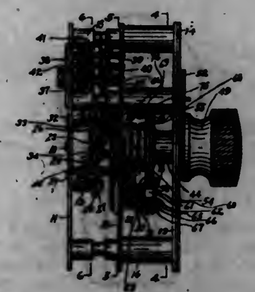
1,919,255. AUTOMATIC TIMING DEVICE. WILSON E. PORTER, New Haven, Conn., assignor to The New Haven Clock Company, New Haven, Conn., a Corporation. Filed Mar. 27, 1930. Serial No. 439,313. 2 Claims. (Cl. 161—1.)



1. In an automatic timing device, the combination with the time-train, control-mechanism and manually-operable setting-member thereof; of a driving-spring and arbor for the said time-train; and two complementary ratchet-devices, one of said ratchet-devices comprising a ratchet-wheel fixed for rotation with said arbor and a pawl carried by a member of said time-train and adapted to drive said time-train under the influence of said spring, and the other ratchet-device including two toothed members carried by said arbor and relatively movable axially of said arbor, one of said toothed members fixed for rotation with said arbor and operable to wind said spring upon rotation of the other toothed member; the said ratchet-devices constructed and arranged to yield oppositely, the former when the said setting-member is turned in the direction for winding the said driving-spring, and the latter when the said setting-member is turned in the opposite direction.

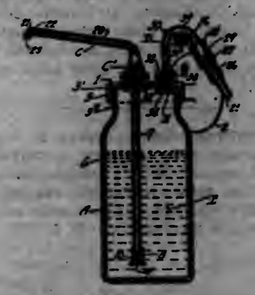
1,919,256. AUTOMATIC TIMING DEVICE. WILSON E. PORTER, New Haven, Conn., assignor to The New Haven Clock Company, New Haven, Conn., a Corporation. Filed Mar. 27, 1930. Serial No. 439,314. 1 Claim. (Cl. 161—1.)

In an automatic timing device, the combination with the time-train and control-mechanism therefor, of manually-operable winding means, and manually-operable setting means, said winding means including a shaft, a driving-spring for said time-train having one end frictionally anchored to a portion of the timer-structure and its other end fixedly connected with said shaft, said setting means including a sleeve carried by said shaft and rotatable relatively thereto and provided with means whereby it may be manually rotated, means including a member rigid on said shaft and a spring member bearing thereagainst and against said sleeve to provide a frictional coupling between said sleeve and shaft whereby rotation of said sleeve in one direction will ro-



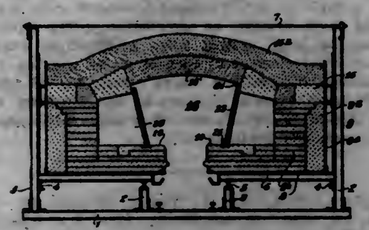
tate said shaft to wind said spring, and means for preventing unwinding of said spring by reverse rotation of said sleeve.

1,919,257. FLUID DISPENSING APPARATUS. RAYMOND L. RENZENHAUSEN, St. Louis, Mo., assignor to Vestal Chemical Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 12, 1931. Serial No. 521,924. 2 Claims. (Cl. 221—94.)



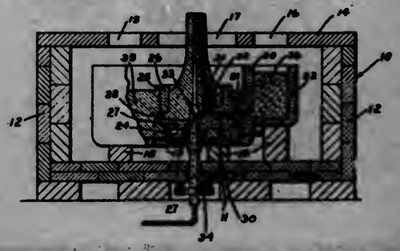
1. In a fluid dispensing apparatus, in combination, a container having an externally threaded open neck, a flanged cap having threaded engagement with the container-neck for closure thereof, a bracket fixed to the cap for connection to a support, and a discharge conduit mounted intermediate its ends in the cap for swivelling movement relatively to the container.

1,919,258. KILN. HARRY M. ROBERTSON, Cleveland, Ohio. Filed June 28, 1931. Serial No. 546,294. 10 Claims. (Cl. 25—142.)



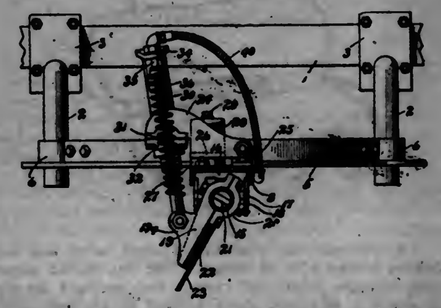
1. In a tunnel kiln having side walls and an arch forming contiguous heating and cooling zones through which ware moves, carriers having supports for ware for moving the ware through said zones, benches extending longitudinally of said heating zone at opposite sides thereof, and a sectional baffle wall extending from each bench to the arch throughout the length of the latter and forming with said bench and arch and adjacent side wall a combustion chamber, said wall being formed with openings below said ware supports.

1,919,259. APPARATUS FOR DRAWING TUBING CONTAINING A STRIPE OF CONTRASTING GLASS. WILLIAM HOWARD SAID, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed July 22, 1932. Serial No. 624,089. 6 Claims. (Cl. 49—17.1.)



6. Glass drawing apparatus including a container for molten glass, a receptacle for contrasting glass adjacent said container, said receptacle having a passageway in one wall, a drawing pot in the container, the walls of said drawing pot being in spaced relation to the walls of the container and a hollow nipple extending upwardly within the drawing pot and spaced away from the walls thereof, said drawing pot having a passageway connecting the opening in the nipple with the passageway of the receptacle and having a port for admitting glass from the container into the interior thereof.

1,919,260. ROAD SCRAPER. EUGENE L. SCHERMERHORN, Gowen, Mich. Filed June 13, 1932. Serial No. 616,884. 10 Claims. (Cl. 37—155.)



1. In a road scraper construction, a supporting beam, a scraper blade mounted on said beam to be raised and lowered, a member pivotally mounted at one end thereof on said beam, a hydraulic cylinder pivotally mounted on said member at its other end, a piston rod extending from said hydraulic cylinder and connected with the scraper blade and means for yieldingly holding said pivotally mounted member against movement away from the beam.

1,919,261. COMBINATION CORSET AND BRASSIÈRE. CHARLES H. SCHOPBACH, Aurora, Ill., assignor to International Corset Company, Aurora, Ill., a Corporation of Illinois. Filed Apr. 13, 1932. Serial No. 604,887. 3 Claims. (Cl. 2—30.)

1. A combination garment comprising a corset and a brassière, said brassière comprising a front portion at-

tached to the upper edge of the corset and adapted to cover the body across the busts, end sections secured to the front portion of the brassière and to the sides of the corset and being free from the rear of the corset throughout the greater part of their length, each end section terminating in an elastic strip extending downwardly diagonally to the center back of the corset, the meeting edges of the elastic strips being permanently secured to-



gether providing a generally V-shaped elastic member, and means for permanently anchoring said elastic member to the corset back at the center approximately at the waistline, said anchoring means comprising a fabric medallion having its upper portion stitched to and overlying the meeting edges of the elastic member, and its lower portion stitched to and overlying the center back of the corset.

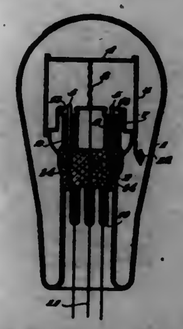
1,919,262. SPECTACLE CASE. JOHN M. SHIELDS, Chicago, Ill., assignor to F. H. Noble & Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 8, 1932. Serial No. 627,864. 3 Claims. (Cl. 206—6.)



1. A spectacle case including a sheet metal box body member formed with an integral front side portion formed upon straight lines and curved end portions merging tangentially into said front portion at its ends and a retaining flange continuous with the top of said front portion and extending upwardly and rearwardly therefrom, said retaining flange tapering in width adjacent its ends to meet said curved end portions of the body member, and a covering of flexible material extending over the outer faces of the box body and folded continuously over the edges of said end portions and said retaining flange.

1,919,263. RECTIFIER. CHARLES G. SMITH, Medford, Mass., assignor to Raytheon Inc., Cambridge, Mass., a Corporation of Massachusetts. Filed Apr. 12, 1928. Serial No. 269,526. 2 Claims. (Cl. 250—27.5.)

1. A gaseous rectifier comprising an evacuated envelope containing a gas filling, a large area cathode structure constituting a plurality of adjacently positioned compartments, small area anodes cooperating with the interior surfaces of said compartments to maintain therewith unidirectional gaseous discharges, the adjacent compartments being separated by a metallic mesh barrier for

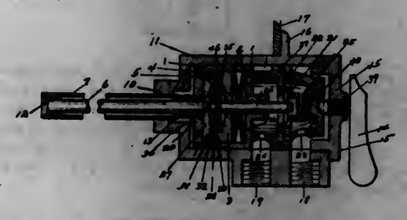


preventing the discharge in one compartment from extending into the adjacent compartment, but securing a mutual ionizing influence between the compartments.

1,919,264. LOW EXPANSION BLACK GLASS AND METHOD OF PRODUCING IT. WILLIAM C. TAYLOR, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Dec. 17, 1930. Serial No. 503,109. 10 Claims. (Cl. 106—36.1.)

1. A black borosilicate glass which is completely opaque to visible light and which contains iron and titanium sufficient in amount to color the glass black as the coloring agents.

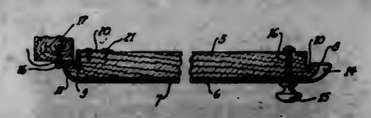
1,919,265. THERMOSTAT. SIDNEY P. VAUGHN, U. S. Navy, Ackerman, Miss., assignor to Grayson Heat Control, Inc., Lynwood, Calif., a Corporation of California. Filed Nov. 19, 1930. Serial No. 496,792. 29 Claims. (Cl. 236—48.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



1. In a thermostat, the combination of a thermal responsive element arranged to have movement in event of temperature variation; a lever system arranged to amplify any movement of said thermal responsive element, a valve or other element arranged to be actuated by said lever system, an overcenter spring device for causing the lever system when actuated to move the valve or other element to open or closed position with a snap action, and resilient means permitting the fulcrums of said lever system to move in the direction of the force applied to said levers after said valve has been moved to an open position.

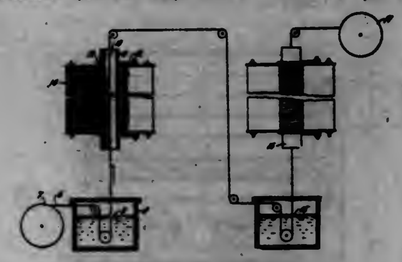
1,919,266. DOOR. GUY F. WETZEL, Chicago, Ill. Filed Mar. 13, 1930. Serial No. 435,418. 5 Claims. (Cl. 20—35.)

1. A door comprising two flat members, one member having an outwardly projecting flange on each of two opposite edges, the other member having an inwardly projecting flange on each of two opposite edges, one of the latter flanges being wider than the other, the distance between the outer edges of the first-mentioned flanges being less than the distance between the inner edges of the other flanges, the two members being as-



sembled with the outwardly projecting flanges positioned between the other member and the flanges thereon, and means to prevent relative movement of said members.

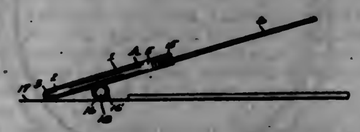
1,919,267. ELECTRIC INSULATION. JOHN H. WHITE, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 18, 1926. Serial No. 95,566. 10 Claims. (Cl. 91—68.)



7. The method of treating fibrous insulation which comprises impregnating the insulation with a solvent of cellulose acetate, subjecting said insulation to the action of moisture-free air, impregnating said insulation with a solution of cellulose acetate, and maintaining the relative temperatures during the drying operation of the impregnated coating and the atmosphere surrounding said coating such that the evaporation of the cellulose acetate solvent will not cool the impregnated coating sufficiently to cause its temperature to reach the dew point of the surrounding atmosphere whereby the deposition of moisture is prevented.

8. The method of treating an insulated switchboard cable conductor which comprises replacing the air in the insulation with acetone vapor, and then impregnating said insulation with non-hygroscopic cellulose acetate.

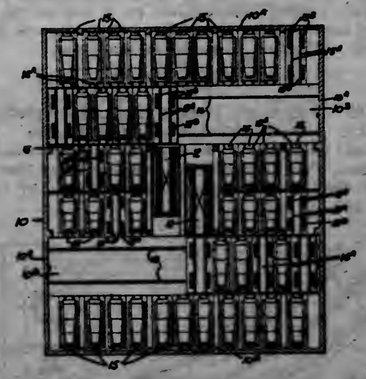
1,919,268. BLOTTER HOLDER. HUGH WHITT, Fortress Monroe, Va. Filed Jan. 7, 1933. Serial No. 650,603. 10 Claims. (Cl. 120—27.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



1. A blotter holder comprising a frame having ends, a weighted portion provided on one of said ends, a slot provided in another of said ends and a fulcrum support intermediate said ends.

1,919,269. GARAGE. ALFONSE N. BECKER, Milwaukee, Wis., assignor, by mesne assignments, to Automatic Parking Systems, Inc., a Corporation of Illinois. Filed Sept. 28, 1927. Serial No. 222,475. 8 Claims. (Cl. 214—16.)

1. In a storage system, an inlet, a plurality of stalls, a truck movable adjacent said stalls for conveying an article from said inlet to a desired stall, a carrier movable in said inlet and on said truck, an engaging member on said carrier normally positioned below said article, supporting arms for said engaging member, motor-driven means for propelling said carrier and for raising



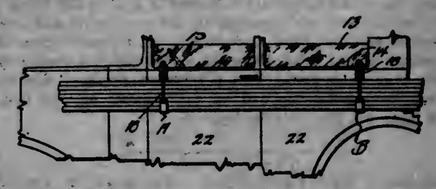
said supporting arms from a substantially horizontal position to a substantially vertical position to elevate said engaging member and thereby to elevate the article to be stored, and a remote control for said motor-driven means.

1,919,270. SPOOL. GEORGE H. BIRD, Brooklyn, N. Y. Filed Dec. 2, 1931. Serial No. 578,480. 13 Claims. (Cl. 242—124.)



13. A device for securing an end flange on a tube, comprising a plate having a plurality of integral arms projecting at one side of the plate and at an angle to the plane thereof, said arms being spaced substantially equidistantly from the axis of the plate and having projections on their outer sides, a disk-like member between and in engagement with said arms and slidable longitudinally thereof from said plate to press said arms outwardly, and means on said arms to limit sliding movement of said member toward the free ends of said arms.

1,919,271. LUMBER RACK. CHARLES K. CADY, Sioux City, Iowa. Filed Sept. 27, 1930. Serial No. 484,780. 2 Claims. (Cl. 224—29.)



1. A lumber supporting hook for attachment to a passenger vehicle formed of a single length of bar metal formed with an intermediate vertical arm the upper end of which is continued horizontally to form a shoulder for resting on the outer sill of the vehicle window, a lip extended downwardly from said shoulder and receivable
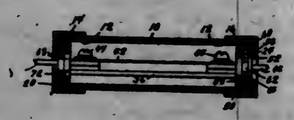
between the said sill and the glass of the window, a facing of protective material on said arm to engage the outer surface of the vehicle, a horizontal supporting arm extending outwardly from the lower end of said vertical arm, a relatively short arm projecting upwardly from the outer end of said supporting arm, and a flexible element detachably secured between said short arm at its upper end and said shoulder and adapted to rest across the top of a pile of lumber supported in said hook.

1,919,272. ELECTROMAGNETICALLY OPERATED TRACK SWITCH FOR TOY RAILROADS. MARIO CARUSO, Irvington, N. J., assignor to The Lionel Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 5, 1927. Serial No. 172,967. 37 Claims. (Cl. 246—231.)



1. In combination, a unitary track switch section for toy electric railroads having fixed wheel bearing rails and a movable switch tongue for controlling the movement of a toy train through the main line or onto a branch line, a reciprocable shift bar connected at one end to the switch tongue for actuating the same, guides for the other end of the shift bar, and a latch, the latch and shift bar having interengaging portions to hold the shift bar and switch tongue immovable in their extreme positions.

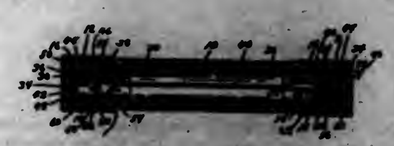
1,919,273. RENEWABLE ELECTRIC FUSE AND METHOD OF MAKING IT. FRANKLIN N. CONANT, Newburyport, Mass., assignor to The Chase-Shawmut Company, Newburyport, Mass., a Corporation of Massachusetts. Filed Oct. 31, 1928. Serial No. 316,210. 14 Claims. (Cl. 200—131.)



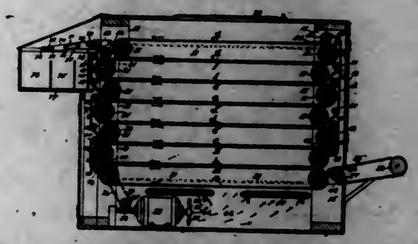
1. In a renewable electric fuse, a tubular enclosing casing of insulating material having an end part of the same diameter provided with external screw threads, and a thin ductile metal shell provided with complemental internal and external rolled screw threads and which engages both the outer screw-threaded and inner faces of said casing and has opposed, thread-free inner and outer annular sections that are smaller in diameter than the diameter of the screw-threaded portion of the casing and that have been flexed into permanent pressure applying engagement with the end of said casing on the inside and also on the outside thereof.

1,919,274. ELECTRIC FUSE. FRANKLIN N. CONANT, Newburyport, Mass., assignor to The Chase-Shawmut Company, Newburyport, Mass., a Corporation of Massachusetts. Filed Sept. 27, 1930. Serial No. 484,851. 21 Claims. (Cl. 200—131.)

1. An electric fuse having an enclosing casing, an internally screw threaded metal shell on the end of the casing, a fuse engaging member carried by the metal shell, and a venting passage which communicates with the interior of said casing and passes between said casing and said shell and traverses the internal screw threads of said shell and has an outlet at the exterior of said casing.



1,919,275. PHOTOPRINT DRIER. GEORGE N. DUNHAM, Los Angeles, Calif. Filed Jan. 16, 1932. Serial No. 586,986. 4 Claims. (Cl. 34—12.)



1. A photo-print drier including sets of superimposed conveyors arranged to carry the photo-prints between them, and an endless belt arranged adjacent the discharge end of said conveyors for transferring the photo-prints to an adjacent upper set of conveyors.

1,919,276. LIGHT SIGNAL. EVAN E. EDWARDS, New Kensington, Pa. Filed Aug. 25, 1931. Serial No. 559,165. 1 Claim. (Cl. 240—8.4.)



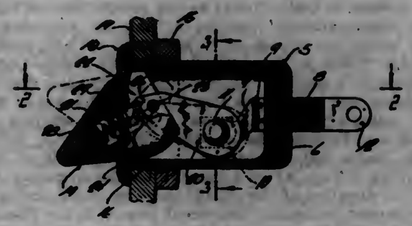
A tell-tale for a vehicle lamp having a lens and a securing ring therefor, comprising a sheet metal stamping with a spoon shaped reflecting portion adapted to overlie the periphery of the lamp, and integral wings extending laterally of said portion, said wings having the cross section of a Z-bar, one flange being adapted to engage the lens of the lamp under the securing ring therefor for securing the tell-tale to the lamp in spaced relation to the lens.

1,919,277. INTERNAL COMBUSTION ENGINE. HERBERT C. EDWARDS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed July 1, 1931. Serial No. 548,167. 5 Claims. (Cl. 123—79.)



1. In an engine having a passage, a valve controlling flow through the passage, the stem portion of said valve traversing the passage and being of reduced diameter transversely of the direction of flow in the passage and streamlined in form.

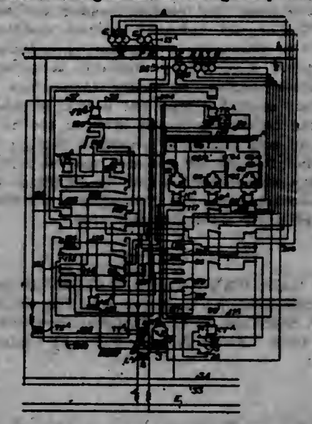
1,919,278. SWITCH. JOHN W. FITZ GERALD, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Mar. 19, 1931. Serial No. 523,783. 2 Claims. (Cl. 200—68.)



2. In a switch of the character described, a cylindrical casing having an open outer end, a knob forming a closure for the open end comprising, a spherical segment having a diameter substantially equal to the inner diameter of said open end, means mounting said segment for pivotal movement about an axis passing through the center of said sphere, a handle formed on the outer portion of said segment to project from the outer open end of the casing and engage the edge of the casing to limit the pivotal movement of the segment, a switch element, means to pivotally mount the switch element from the segment for movement about an axis spaced inwardly from the center of the sphere, whereby the free end portion of the switch element is positively moved during the pivotal movement of the spherical segment, and a spring disposed within the spherical segment and engageable with the adjacent portion of the switch element to afford a snap action for the switch.

1,919,279. RAILWAY TRAFFIC CONTROLLING APPARATUS. RALPH R. KEMMERER, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 3, 1930, Serial No. 486,103. Renewed Feb. 6, 1933. 22 Claims. (Cl. 246—8.)

1. In a combined wayside and cab signal system including, a stretch of track rails over which traffic may move in either direction, a wayside signal located at each end of the stretch to govern traffic in opposite directions through the stretch, a current source capable of supplying to the rails at either end of the stretch unidirectional current periodically interrupted which is adaptable to control train-carried cab signals, a track relay at each end of the stretch responsive to unidirectional current periodically interrupted, a manually controlled directional means for establishing the direction of traffic to connect the track relay to the rails at the entrance end of the stretch for the direction established, and to render the current source effective to supply said periodically interrupted current to the rails at the exit end of the stretch for the said direction of traffic, a decoding relay associated with each track relay, means to energize the decoding relay when the associated track relay is operated by said periodically interrupted current, and means controlled by said decoding relay to govern the operation of the signals.

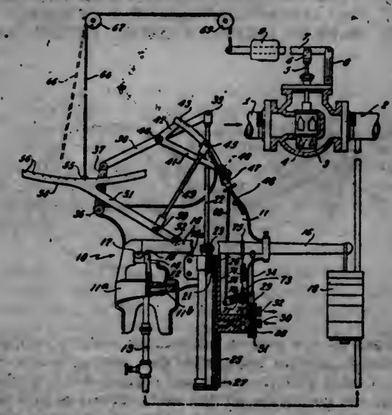


1,919,280. RECEPTACLE FOR GRANULAR OR PULVERULENT CONDIMENTS FOR TABLE USE. CHARLES REGINALD LANGTON, London, England. Filed June 1, 1932, Serial No. 614,776, and in Great Britain June 8, 1931. 2 Claims. (Cl. 65—75.)



2. A receptacle for table condiments which is closed on top and is provided with an inwardly extending funnel, the inner end of which funnel is directed towards the top of the receptacle, and with an outlet opening near the upper end of an upstanding wall of the receptacle.

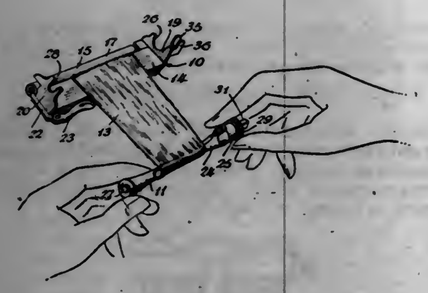
1,919,281. REGULATING MEANS. HERBERT B. MORRILL, Salem, Mass. Filed Feb. 16, 1932. Serial No. 593,270. 8 Claims. (Cl. 236—85.)



1. Apparatus of the class described comprising a chamber containing fluid under pressure, a plurality of control

elements movable to affect the pressure in said chamber, a master regulator having a common control member movable in response to pressure variations in said chamber, connections between said control member and certain of said control elements arranged automatically to move the elements to maintain the pressure in said chamber at a desired point, a secondary regulator including a secondary control member, secondary connections between said secondary control member and certain of said control elements, and connecting means between the first-named regulator and said secondary regulator causing the synchronous operation of the common control member and the secondary control member and the simultaneous movement of the control elements connected to the first-named regulator and to the secondary regulator.

1,919,282. HAIR WAVING APPARATUS. OTTO SEITER, Forest Hills West, N. Y., assignor to The Nestle-Lemur Company, New York, N. Y., a Corporation of Ohio. Filed June 1, 1932. Serial No. 614,692. 11 Claims. (Cl. 132—33.)



1. In combination, a protector or clamp for gripping a hair strand, a curler rod upon which said hair strand is wound, a pawl and ratchet mechanism operating between said clamp and curler rod for holding the latter against backward rotation when the hair strand is wound thereon, and a finger abutment carried by said clamp in such proximity to said pawl that the operator may engage each with a finger and release the pawl from the ratchet by exerting pressure with the fingers on said finger engaged parts.

1,919,283. INK FOUNTAIN DIVIDER AND PAD. MARTIN J. TROY, Atlantic Highlands, N. J. Filed Dec. 22, 1931. Serial No. 582,560. 9 Claims. (Cl. 101—210.)



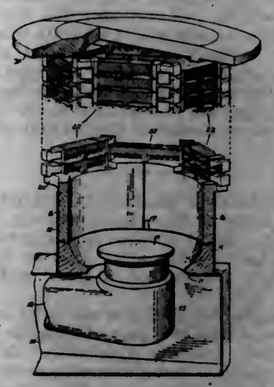
1. A pad for use with an ink fountain compartment wall and roller to prevent leakage between compartments comprising a strip portion and a pad portion made of pliant material and means for joining said portions to provide a relatively firm point, between a corner of the compartment wall and the roller.

1,919,284. APPARATUS FOR MEASURING ALTERNATING CURRENT. HANS WALTER, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany, a Corporation of Germany. Filed Sept. 8, 1930, Serial No. 480,443, and in Germany Sept. 11, 1929. 5 Claims. (Cl. 175—183.)



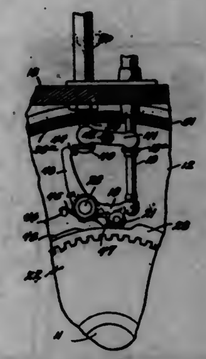
1. In a rectifier arrangement for the purpose of alternating current measurement, control, and the like, a rectifier bridge, rectifiers in at least two branches of such bridge, the circuits of said rectifiers having substantially straight-line characteristics, coupling devices for supplying to said bridge the voltage to be measured and an auxiliary voltage which is high relatively to said first-mentioned voltage, said coupling devices being so arranged that the vectorial sum as well as the vectorial difference of said two voltages will have the same direction, whereby the difference between the rectified currents will, within wide limits and irrespective of the amplitude of said auxiliary voltage, afford a measure for the magnitude and for the direction of the voltage to be measured, and a direct-current indicating instrument located in the diagonal branch of said rectifier bridge, to indicate the voltage being measured.

1,919,285. COMBUSTION CHAMBER. ASHUR U. WETHERBEE, Evanston, Ill., assignor to Autogas Corporation, Chicago, Ill., a Corporation of Delaware. Filed Nov. 19, 1931. Serial No. 576 076. 26 Claims. (Cl. 158—1.)



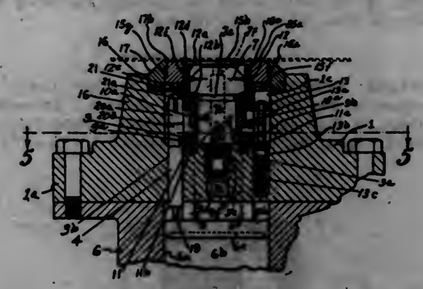
1. A combustion chamber comprising a base section, a plurality of separate ceramic segments superimposed on said base and arranged in vertical rows each of which rows forms one side of said chamber, said segments having spacing means forming intervening slots between adjacent elements of each row, and a cover for the chamber formed thereby.

1,919,286. INTERNAL COMBUSTION ENGINE. LIONEL M. WOOLSON, deceased, Detroit, Mich., by Emma F. Woolson, executrix, Bloomfield Village, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed July 22, 1930. Serial No. 469,891. 12 Claims. (Cl. 123—139.)



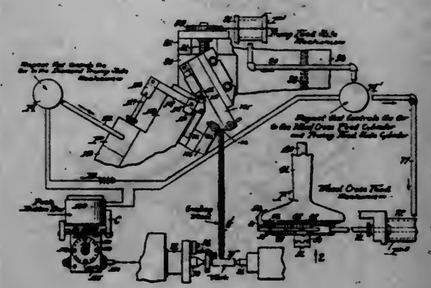
1. In an internal combustion engine, in combination, a fuel injection member, a motor in which energy may be stored, means actuated by a moving part of the engine for imparting energy to the motor, means for maintaining said motor in energy storing condition, which means is adapted to be operated by an engine-driven part to release said motor irrespective of the condition of the energy imparting means, and means operatively connecting said motor and fuel injection member whereby said member is operated when the motor is released.

1,919,287. APPARATUS FOR FORMING SHEET METAL FORMS. JAMES LAWRENCE AUBLE, Cincinnati, Ohio, assignor to M. & A. Inc., Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 27, 1931. Serial No. 577,467. 14 Claims. (Cl. 113—49.)



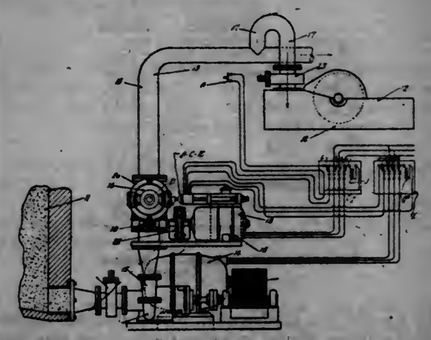
1. In sheet forming apparatus comprising a forming die member and a forming punch member, each having elements of successively decreasing cross dimensions, elements of one member successively coacting with respective elements of the other member by relative recession of the elements of one member incident to relative approach of the members, and frictionally coacting means controlling the relative recession of the elements initially having a positive coaction to prevent the relative recession, means operated incident to relative approach of the members, acting on the controlling means to initiate the frictional coaction, said controlling means being operative independently of the initiating means after initiation of its frictional coaction, and means to return the elements and the initiating means to their initial relative positions upon relative recession of said die and punch members.

1,919,288. METHOD AND APPARATUS FOR TRUING A GRINDING WHEEL. STANLEY W. BATH, Shrewsbury, Mass., assignor, by mesne assignments, to John Bath & Company, Worcester, Mass., a Corporation of Massachusetts. Filed May 4, 1931. Serial No. 534,796. 12 Claims. (Cl. 125—11.)



2. In a grinding machine, means for supporting and rotating a piece of work, a grinding wheel, wheel truing devices, actuating mechanism therefor, and control means operable to cause actuation of said truing devices at predetermined intervals during rotation of the grinding wheel in continuous grinding engagement with the work and in predetermined relation to the rotation of the work.

1,919,289. METHOD AND MACHINE FOR USE IN PAPER MAKING INDUSTRY. WILLIAM E. BEACH, Riverside, Ill. Filed Nov. 16, 1931. Serial No. 575,395. 15 Claims. (Cl. 92—20.)

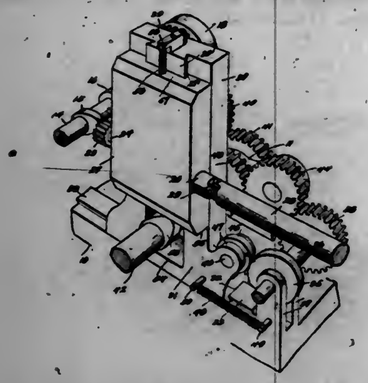


1. In a machine for handling slush stock and preventing dehydration, the combination of a pair of receptacles, a tubular connection between said receptacles, whereby said slush stock may be transferred from one receptacle to the other, means for controlling transfer of stock from one receptacle to the other and retaining an amount of said stock in an inert fluid condition in said tubular connection.

1,919,290. MILLING MACHINE. JOHN M. CHRISTMAN, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 1, 1930. Serial No. 440,766. 11 Claims. (Cl. 90—13.)

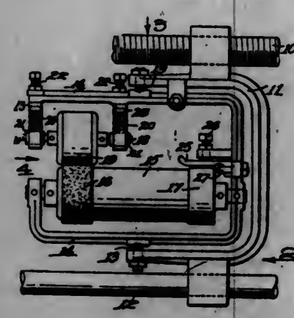
1. In a machine, the combination with a work holder and means for continuously rotating it, of a carriage mounted to move toward and from the work substantially normal to the work rotating axis, means for moving the carriage in synchronism with the rotation of the work

holder, a tool support carried by said carriage and mounted to move thereon always in a right line at right angles to the movement of the carriage in a plane normal



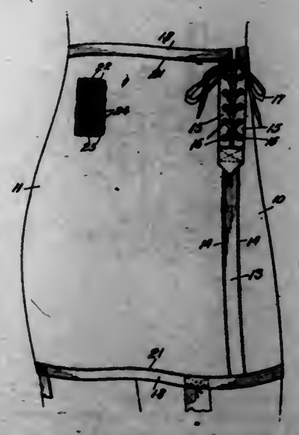
to the work rotating axis, means for moving the tool support in synchronism with the rotation of the work holder, and a tool mounted on said support.

1,919,291. CLOTH GUIDING DEVICE. CHARLES H. COOLIDGE, Worcester, Mass., assignor to Curtis & Marble Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 19, 1932. Serial No. 587,565. 1 Claim. (Cl. 26—67.)



In a device for guiding cloth or the like, the combination of a frame pivoted to swing freely on an axis transverse to the direction of the cloth or the like, a freely rotatable roll having at one end an enlarged cylindrical soft-surfaced portion and at the other end an enlarged conical portion, the roll between said two enlarged portions being of small diameter to prevent the cloth from pressing against it, a spring-pressed freely rotatable roll pressing against the soft-surfaced portion of the first named roll to hold the cloth between them at a distance back of the selvage thereof, a friction plate carried by said frame and projecting over the conical surface and having a guide for guiding the selvage of the cloth into the space between the guide and the conical surface, said two enlarged parts of the first named roll being located on opposite sides of the axis, whereby normally the travel of the cloth will swing the frame forwardly at the inner end but when the selvage of the cloth enters the space between the conical roll surface and the plate, the roll and frame will be turned by the friction of the cloth in the opposite direction to bring the axis of the roll into a line transverse to the direction of the motion of the cloth.

1,919,292. ELASTIC GARMENT. JOHN FIELD, Fairfield, Conn., assignor to The Warner Brothers Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 21, 1932. Serial No. 587,869. 9 Claims. (Cl. 2—37.)



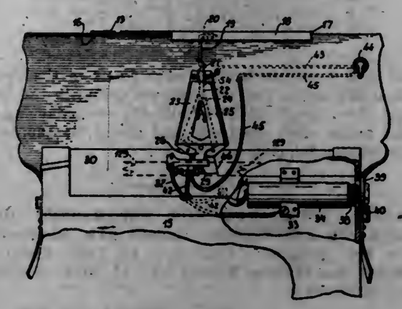
1. A garment of the character described adapted to encircle the hips of the wearer, confine the posterior portions and be worn next to the body, said garment comprising porous material having elastic strands extending in one direction and elastic strands interengaged with said first-named strands and adapted to permit the material to stretch simultaneously in another direction, whereby said material is capable of stretching up and down as well as across, said material being positioned at the rear of the wearer and extending between points above and below the plane of maximum girth of the posterior portions of the wearer; said garment being thereby constructed and arranged to permit freedom of movement of the wearer while exerting a distinct confining action on the parts within the garment and being also prevented from riding up on the wearer.

1,919,293. CORSET. JOHN FIELD, Fairfield, Conn., assignor to The Warner Brothers Company, Bridgeport, Conn., a Corporation of Connecticut. Filed July 18, 1932. Serial No. 623,093. 7 Claims. (Cl. 2—37.)



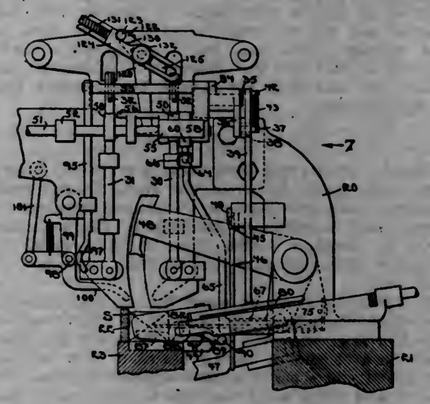
1. A garment of the character described including a plurality of panels of material formed of elastic yarn and capable of stretching both up and down and across, and a panel of material adapted to stretch up and down but not across secured at the front of said garment, said last-named panel being of less up and down extent than the length of the garment.

1,919,294. ACCORDION ILLUMINATING MEANS. EUGENIO GALIZI, deceased, Brooklyn, N. Y., by Maria Galizi, executrix, Brooklyn, N. Y., assignor of one-half to Adriano Galizi, New York, N. Y. Filed Apr. 17, 1931. Serial No. 530,907. 5 Claims. (Cl. 84—376.)



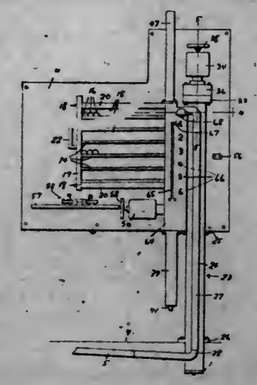
3. In an accordion, pallet actuating means arranged upon a reed board, a transparent reed board cover, and an electric circuit including illuminating means arranged below said transparent reed board cover and above said pallet actuating means, and diffusing means projecting above said cover and registering with said illuminating means.

1,919,295. WEFT REPLENISHING MECHANISM. ANTHONY D. GARGOLINSKI, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 30, 1931. Serial No. 583,929. 11 Claims. (Cl. 139—282.)



1. In a weft replenishing drop box loom, a multi-color magazine, slide bars movably mounted thereon, fingers engaging said slide bars, a rock shaft, means to regularly oscillate said shaft, a color slide axially movable on said rock shaft to engage a selected finger, a member fixed to said shaft, a connecting device mounted in said member and movable to operative and inoperative positions relative to said color slide, a weft detector, and means engageable by said weft detector on indication of substantial weft exhaustion and actuated thereby to move said connecting device to operative position in said member.

1,919,296. MECHANICAL POOL BALL RACKING DEVICE. JOHN J. GRANTONIC, Mingo Junction, Ohio. Filed Dec. 31, 1930. Serial No. 505,954. 8 Claims. (Cl. 273—11.)



1. A ball racking device for pool tables comprising a rack having a plurality of compartments, an elevator disposed adjacent the rack for receiving balls from the table at its lower end portion and discharging said balls at its upper end portion, an adjustable member for positioning selectively adjacent the compartments for receiving the balls from the elevator and directing said balls into the selected compartments, and means for releasably retaining the shiftable member in adjusted position, said means comprising a notched bar, and a spring pressed keeper slidably mounted on the shiftable member for engagement in the notches in the bar.

1,919,297. VITAMIN PREPARATIONS CONTAINING LIPOID SOLUBLE VITAMINS. WALTER KROPF, FRITZ LANGE, and ARNOLD BOHNE, Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 28, 1929, Serial No. 395,996, and in Germany Oct. 22, 1928. 6 Claims. (Cl. 167—81.)

1. A stable vitamin preparation being a solution of a lipoid-soluble vitamin preparation in a water-soluble liquid amide of the lower fatty acids.

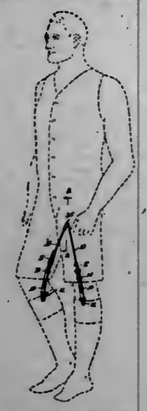
1,919,298. DISINFECTANT. RUDOLF LEHMANN, Uerdingen-on-the-Rhine, FRANZ HECKMANNS and KARL DOMAGK, Leverkusen-on-the-Rhine, and JAKOB WILLEMS, Crefeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed May 13, 1930, Serial No. 452,130, and in Germany May 15, 1929. 8 Claims. (Cl. 167—22.)

1. As a new disinfectant an additional compound of an aromatic hydroxy compound with an aliphatic amino alcohol, which may be substituted in the amino group by one or more hydroxyalkyl groups.

1,919,299. STOCKING SUPPORTER. NILS D. LEVIN, Columbus, Ohio. Filed Aug. 17, 1931. Serial No. 557,697. 5 Claims. (Cl. 241—1.)

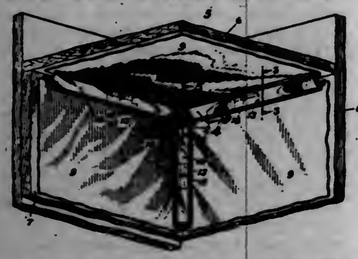
1. A stocking supporter of the type adapted to be suspended by the crotch of the trousers of the wearer, and having portions extending downwardly of each leg thereof for attachment to each stocking, said supporter comprising a rigid hanger member of material having a low coefficient of friction, a round, elongated cord-like strip of flexible material threaded through said hanger

member for free sliding movement therethrough, an elastic strip at each end of said first strip, and stocking engaging means secured to the lower ends of each of said elastic strips, said rigid member of material having



a low coefficient of friction serving to facilitate sliding movement of said cord-like strip therethrough, whereby said supporter may adjust itself automatically according to various postures assumed by the wearer.

1,919,300. MOLDING. EDWIN LEWIS, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 25, 1931. Serial No. 559,317. 4 Claims. (Cl. 20—74.)



1. An arrangement for covering corners formed by abutting walls, including a plurality of strips of molding meeting at a common junction point of said walls, a terminating block of triangular formation registering with the ends of the strips of molding at their junction point, and means for securing said terminating block to one of said walls, said securing means being so related to the back of the terminating block as to be hidden when the terminating block is in fixed position on one of said walls.

1,919,301. AGE RESISTING VULCANIZED RUBBER AND ANTIOXIDANT AGENT. HAROLD A. MORTON, Akron, Ohio. Filed July 25, 1930. Serial No. 470,775. 6 Claims. (Cl. 18—50.)

1. A rubber composition including a BB' diamino diethyl ether wherein one of the hydrogen atoms of each amino group is replaced by an alkyl hydrocarbon residue.

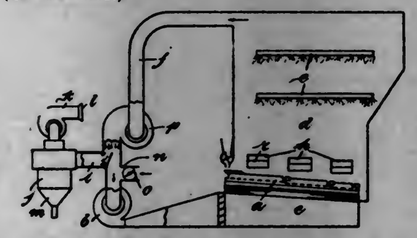
1,919,302. MINE CONVEYER. ERNST F. MÜLLER, Columbus, Ohio, assignor to The Jeffery Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed May 14, 1931. Serial No. 537,393. 13 Claims. (Cl. 198—118.)

8. Apparatus of the class described comprising a wheeled truck, an arm pivotally supported by the truck for swinging movements thereabove on an upright axis, an elongated conveyer frame pivotally supported on the outer end of said arm for swinging movements relative to the arm about horizontal and upright axes, one end of said frame overbalancing the other about said hori-



zontal axis, said arm and conveyer frame in the normal transporting position of the parts extending in the longitudinal direction of the truck with the overbalancing end of said frame above the truck, and means for supporting said overbalancing end.

1,919,303. APPARATUS FOR SEPARATING DUST FROM AIR AND GASES. GEORGE RAW, Ravenswood, Low Fell, England. Filed Nov. 18, 1932, Serial No. 643,257, and in Great Britain Nov. 16, 1931. 5 Claims. (Cl. 209—502.)



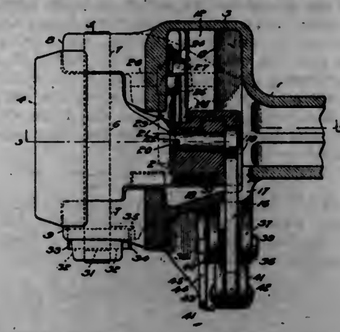
1. Apparatus for cleaning dust-laden gaseous fluid in the pneumatic separation of materials of different specific gravities, comprising a separating table, a fan supplying gaseous fluid to said table, a dust settling chamber above said table, liquid atomizing devices delivering a liquid mist into said chamber to cause dust particles uprising from the table to coalesce and the larger coalesced particles to fall, a pipe connected between said dust chamber and fan for returning gaseous fluid from the dust chamber to the fan, and a centrifugal separator mounted in said pipe for separating a substantial portion of the dust from the gaseous fluid returned from the dust chamber.

1,919,304. RECOVERY OF CALCIUM HYPOCHLORITE. HEINRICH REITZ, Bitterfeld, and HANS EHLERS, Sandersdorf, Germany, assignors, by mesne assignments, to Pen-Chlor, Incorporated, Philadelphia, Pa., a Corporation of Delaware. Filed Nov. 13, 1930, Serial No. 495,520, and in Germany Nov. 15, 1929. 1 Claim. (Cl. 23—86.)

A process for removing water from calcium hypochlorite which comprises suspending moist neutral calcium hypochlorite crystals in a state of extremely fine subdivision in a current of dry air heated to between about 140–150° C. for a period of time sufficient to remove the greater part of the water contained in said crystals, then exposing the product immediately to a fresh current of dry air heated to between about 150–160° C. for a period of time sufficient to complete dehydration, and finally cooling the product.

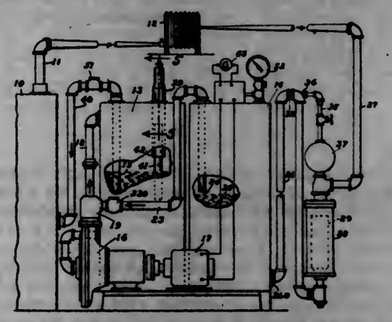
1,919,305. COUPLER. WILLARD F. RICHARDS, Depew, N. Y., assignor to The Gould Coupler Company, New York, N. Y., a Corporation of Maryland. Filed Apr. 26, 1927. Serial No. 186,781. 6 Claims. (Cl. 213—126.)

3. In combination, a coupler head, a swinging knuckle, a locking block for said knuckle, means for actuating said block comprising a lifter passing through the bottom wall of the head and provided with a pivot extending longitudinally of the head for pivoting the lifter to said block, a bell crank lever pivotally mounted at the



side of said head with one arm pivotally connected to the lower end of the lifter and the other connected to a pull rod for the operation thereof.

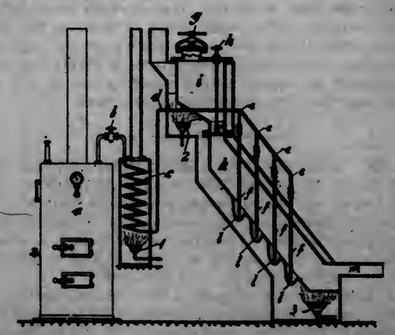
1,919,306. VACUUM CONDENSATION SYSTEM. VICTOR ROSENHAGEN, Bellevue, Ky., assignor to The Breese Brothers Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 4, 1932. Serial No. 603,007. 8 Claims. (Cl. 103—6.)



1. Vacuum condensation means for steam heat systems and comprising a circulation tank communicating with the steam boiler of said system, a condensation chamber communicating with said tank and the return pipe of the system, a water seal in the condensation chamber, means interposed in the communicating medium between said tank and chamber for creating a vacuum adapted to draw air and liquid condensation from the system through said water seal into said chamber and tank successively, said means being adapted to create a static vacuum above the water seal in the condensation chamber, means successively stopping and starting operation of the vacuum creating means upon arrival of said static vacuum at a selected high and low sub-atmospheric pressure, respectively, means associated with the condensation chamber to preclude entry therein of less than a given volume of liquid condensation and of induced air of greater than a given temperature, and means operative upon the exceeding of a given volume of water in the circulation tank for effecting outflow of the excess water from said tank to the steam boiler.

1,919,307. METHOD AND APPARATUS FOR VOLATILIZING SULPHUR. GEORG RUPPRECHT, Hamburg, Germany. Filed June 11, 1931, Serial No. 543,669, and in Germany Mar. 31, 1931. 10 Claims. (Cl. 23—227.)

1. A method of nebulising sulphur, comprising leading molten sulphur, heated to approximately its boiling point, through a heating chamber from which atmospheric air is excluded, passing said molten sulphur while in said heating chamber over heated evaporating surfaces of large surface area, superheating the sulphur on said surfaces, and simultaneously introducing inert gases into the said molten sulphur in sufficient quantity to drive off the sulphur vapors in a product comprising highly diluted sulphur vapors.

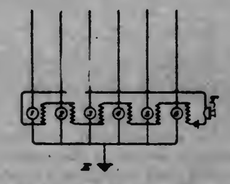


7. Apparatus for nebulizing sulphur, comprising a combustion container, for superheating the sulphur to a temperature above its boiling point, a vessel inserted therein for containing the sulphur to be heated, and a tube leading from the upper wall of said vessel, where it communicates with said container, to the bottom, through which tube the products of combustion of the heating medium are passed from the container, through and into the superheated mass of sulphur, so that the said products of combustion drive off the sulphur vapors thus formed.

1,919,308. PURIFICATION OF ALKALI METAL HYDROXIDE LIQUORS. FRIEDRICH WILHELM STAUF, Cologne-Deutz, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed June 24, 1929. Serial No. 373,497, and in Germany July 2, 1928. 3 Claims. (Cl. 23—49.)

1. The process which comprises adding to a waste alkali metal hydroxide solution being contaminated by cellulose and cellulose like substances an alkali metal salt of an acid of the group consisting of manganic and permanganic acid, boiling the mixture, separating the manganese dioxide formed, cooling the solution, separating the separated alkali-metal carbonate, melting together the separated alkalimetal carbonate and the separated manganese dioxide in the presence of air, grinding the manganate melt and reintroducing it into the process for the purification of fresh lye.

1,919,309. APPARATUS AND METHOD FOR RADIO TRANSMISSION AND RECEPTION. JOHN STONE STONE, San Diego, Calif., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 6, 1930. Serial No. 450,242. 35 Claims. (Cl. 250—10.)



1. The method of employing a plurality of wave frequencies in radio transmission which consists in grading

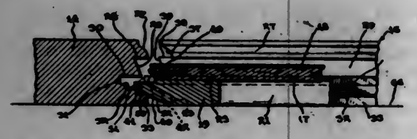
them according to the numbers, $n+d-d'$, $n+d+d'$, $n+3d-d'$, $n+3d+d'$, $n+5d-d'$, $n+5d+d'$, etc., d' being relatively small, and modulating them oppositely in succession along this sequence.

6. The method of signaling which consists in transmitting the signals on at least three different frequency bands with phase reversal of modulation in the bands of one of the two sets of alternate bands taken along the frequency scale, and combining the received wave effects at the receiving station with phase reversal in the same bands in which there was phase reversal at the transmitting station so that these received wave effects cooperate to reproduce the signals at the receiving station but neutralize each other in respect of interference.

1,919,310. PROCESS FOR THE SIMULTANEOUS PRODUCTION OF PHOSPHORUS AND ALUMINA. ROBERT SUCHY and HANS FRIEDRICH ALFRED EMIL KRAUSS, Bitterfeld Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Aug. 4, 1930, Serial No. 473,121, and in Germany Sept. 4, 1929. 2 Claims. (Cl. 23—142.)

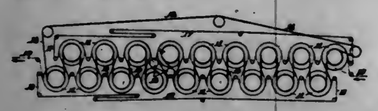
1. A process which comprises the step of melting together a natural aluminium phosphate and iron sulfide in the presence of carbon, the quantity of the carbon and the temperature maintained in the melting process being sufficient to ensure complete reduction of the phosphorus oxide contained in the phosphate and of the compounds constituting the gangue, and the quantity of the sulfide being sufficient to convert about 25 percent of the alumina contained in the phosphate into aluminium sulfide.

1,919,311. DOOR PANEL CONSTRUCTION. BENJAMIN J. TRILLER, Dubuque, Iowa. Filed July 5, 1929. Serial No. 376,144. 9 Claims. (Cl. 20—35.)



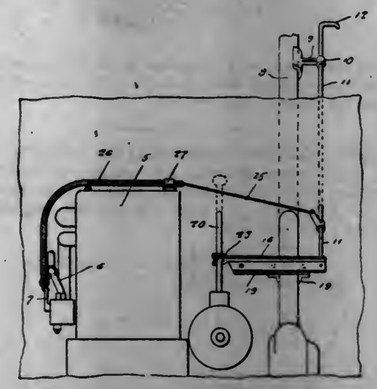
1. In panel construction, the combination of a sectional grooved frame and a panel member inclosed thereby, one wall of the frame groove being beveled, and the panel member being engaged only with said beveled wall when the parts are juxtaposed prior to assembly, said beveled wall serving to move one face of the panel member against an opposite wall of the frame groove when the frame sections are moved toward the panel member during assembling, the panel member including a compressible felted fiber portion which permits the frame joints to close even after the panel member has engaged the said opposite groove wall.

1,919,312. PAPER DRIER. JOHN WARREN VEDDER, Worcester, Mass., assignor to Rice, Barton & Fales, Incorporated, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 29, 1930. Serial No. 505,268. 3 Claims. (Cl. 34—48.)



1. In a drier for web material, the combination of a series of heated drier drums of the same diameter over which the web is led from one drum to another, a pulley on the shaft of each drum, said pulleys being of different sizes, those at the wet end being progressively smaller than those at the discharge end, a belt passing around said pulleys, one after the other, means for driving one or more of the drums from a source of power so that the rest of the drums will be driven at progressively lower speeds by the belt as the web progresses through the series but these speeds will not be positive, and a felt arranged to pass over the web throughout the series of driers so that the driving of the driers by the belt and the driving of the driers by the felt, both of which are non-positive, will control each other and allow the drums to slip on the felt sufficiently to allow for the lengthwise paper shrinkage.

1,919,313. COMBINED STARTER AND CHOKE CONTROL. BERNARD J. WERNSDORF, Argyle, Mo. Filed Jan. 15, 1932. Serial No. 586,807. 1 Claim. (Cl. 123—179.)



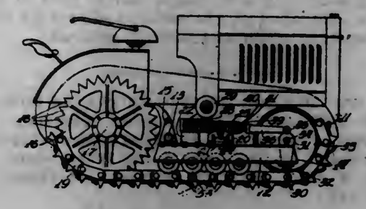
In combination, a throttle, a steering shaft housing, a bearing on the housing, a swingable member on the housing, an elongated rod extending through the bearing, a swivelled connection between one end of the rod and the swingable member, a lever on the rod, a connection between the lever and the throttle, an engine starter control member having a shoulder thereon, one end of the swingable member being equipped with a yoke for receiving the starter control member and to engage the shoulder, and a handle on the forementioned rod whereby the rod can be rotated or slid through the said bearing to oscillate the lever on the rod or to rock the said swingable member for controlling the starter.

1,919,314. TELEPHONE INSTRUMENT CIRCUIT. EDMUND RAMSAY WIGAN, London, England, assignor to Siemens Brothers & Company Limited, London, England. Filed Jan. 28, 1932, Serial No. 589,472, and in Great Britain Feb. 7, 1931. 11 Claims. (Cl. 179—81.)



1. In a substation telephone circuit comprising a transmitter, a receiver, two impedances connected in series, an induction coil having three windings, a line, a series circuit including the second of said windings and said transmitter in series connected in bridge of said line, a second series circuit including said two impedances and the first of said windings in series connected in bridge of said transmitter, and circuit means connecting the third of said windings in series with said receiver across one of said impedances.

1,919,315. TRACK FRAME STRUCTURE. DAVID B. BAKER, Riverside, CLIFFORD R. ROGERS, Oak Park, and NORMAN O. PANNEBRAU, Chicago, Ill., assignors to International Harvester Company, a Corporation of New Jersey. Filed Oct. 17, 1931. Serial No. 569,400. 6 Claims. (Cl. 308—13.)



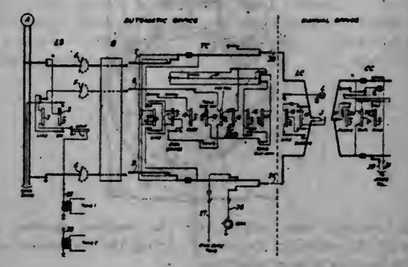
1. A cushioned idler support for track laying tractors comprising, in combination with a track frame and an idler roller rotatably mounted on one end thereof, a yoke connected to the idler roller and extending rearwardly therefrom, a support on the track frame, a restraining member slidably extending through said support and connected to said yoke, a stop on the rear end of said member to limit forward movement thereof, compression springs mounted laterally of said member and abutting at one end against said support, a spring retaining member mounted on the restraining member and abutting the other ends of the springs, and means for adjusting the restraining member longitudinally of the yoke member.

1,919,316. FIRE EXTINGUISHER. WILHELM B. BRONANDER, Montclair, N. J. Filed Nov. 11, 1929. Serial No. 406,207. 2 Claims. (Cl. 169—2.)



1. In combination, a supporting panel having an opening therein and a closure for said opening pivoted on a substantially horizontal hinge and arranged to swing inwardly and downwardly, means for limiting the opening movement of said closure, and a fire extinguisher detachably supported by and resiliently carried by the inner surface of said closure whereby said extinguisher will be readily accessible when the closure is opened.

1,919,317. TELEPHONE SYSTEM. JOHN A. BURGENER, Hinsdale, Ill., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a Corporation of Delaware. Filed Dec. 29, 1931. Serial No. 583,667. 8 Claims. (Cl. 179—27.)



1. In a telephone system, a subscriber's line identified by a distinctive tone, a trunk line, means for extending a call from said subscriber's line to the trunk line, means for answering the call, and means for applying said tone to the trunk line and for removing the same responsive to the answering of the call.

1,919,318. BACK HAIR CONFINER. CAROLINE CASPER, Boston, Mass. Filed Apr. 29, 1933. Serial No. 668,556. 1 Claim. (Cl. 132—38.)

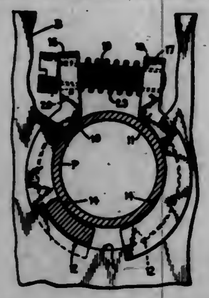


A back hair confiner comprising in combination two hair pins, each including two legs connected by a neck at one end of the pin, one leg of each pin including a bent portion forming a recess having a closed end adjacent to and facing the neck of the pin, said pins being insertable in alignment with each other in a fringe of back hair with the necks in compressing contact with hair constituting opposite edge portions of said fringe, and connecting means adapted to confine the pins with their necks variably spaced apart to determine and maintain a desired width of the fringe, said means including a substantially straight flexible cord having an eye separably engageable with the closed end of one pin recess, a looped cord having an eye separably engageable with the closed end of the other pin recess, and a take-up device associated with the looped cord, and adapted to maintain different lengths thereof, said cords having complemental coupling members forming meeting ends of the cords and separably interengageable to connect the cords end to end.

1,919,319. PIPE COUPLER. LEWIS H. CHURCH, Westfield, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a Corporation of New Jersey. Filed Mar. 18, 1932. Serial No. 599,642. 8 Claims. (Cl. 247—25.)

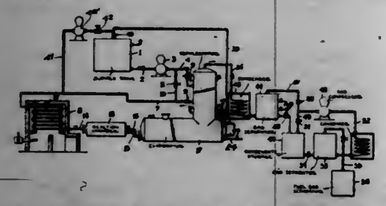
1. A wall assembly comprising a wall having a circular opening therein, a cylindrical member positioned within the opening, a pair of circular wedges between the cylindrical member and the edge of the circular opening and

retaining the circular member eccentrically in the opening, ears carried by each wedge at the narrower end thereof, and operating means carried by the ears to pull the



ears towards each other and the wedges around the edge of the circular opening to bring the narrower ends of the wedges closer together.

1,919,320. APPARATUS FOR TREATING HYDROCARBONS. WALTER M. CROSS, Kansas City, Mo., assignor, by mesne assignments to Gasoline Products Company, Inc., Wilmington, Del., a Corporation of Delaware. Filed Oct. 31, 1923. Serial No. 672,020. 5 Claims. (Cl. 196—107.)



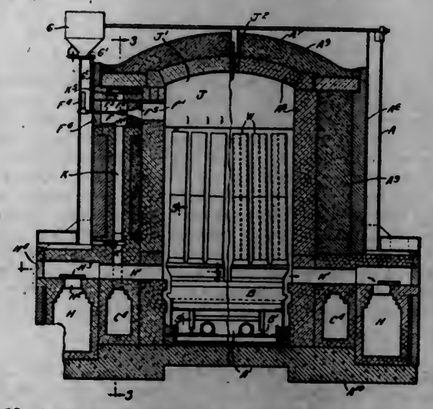
1. An apparatus for treating hydrocarbon oils, which includes a heating coil adapted to receive oil from a supply tank, a cracking chamber, an evaporator and a dephlegmator successively connected, a conduit connecting the supply tank with the heating coil, a portion of which conduit is located within the dephlegmator, means for forcing the oil from the supply tank through the conduit to the heating coil, means for returning the condensate collected in the dephlegmator to the heating coil, and a separate by-pass connection around the portion of the conduit in the dephlegmator whereby the oil may be charged without preheating directly to the heating coil.

1,919,321. DISPLAY DEVICE. FRANK J. DEVLIN, Forest Hills, N. Y. Filed Nov. 19, 1932. Serial No. 643,364. 2 Claims. (Cl. 40—70.)
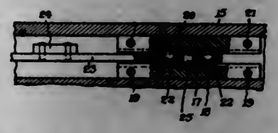


1. A display device comprising a casing consisting of a frame, a front wall for the frame terminating short of one end thereof to provide an opening, a rear wall for said frame extending from said end thereof to a point approximately in alignment with the end of said front wall forming an edge of said opening, indicia on said rear wall visible through said opening, a pivot rod connecting said walls adjacent said openings, a plurality of panels each mounted for rotary movement on said rod and having indicia thereon, said panels being normally positioned behind said front wall and each being adjustable to a position in alignment with said opening and in front of the indicia on said rear wall, and means on said rod for securing said panels in normal and adjusted positions.

1,919,322. METHOD OF AND APPARATUS FOR GLAZING CERAMIC WARE. CONRAD DRESSLER, Paris, France, assignor to Swindell-Dressler Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 3, 1930. Serial No. 486,152. 24 Claims. (Cl. 25—142.)



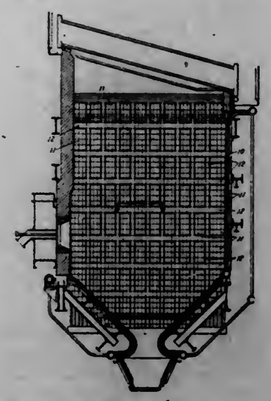
18. A continuous tunnel kiln adapted for glazing ceramic ware and comprising means for moving the ware through an elongated kiln chamber, means for heating the ware during its passage through the chamber to a high temperature, means for simultaneously introducing a glazing agent in finely divided form and a combustible mixture into a high temperature section of the kiln chamber and burning said mixture therein to vaporise the glazing agent introduced, and means for passing the glazing vapors so formed downwardly through said kiln chamber and in intimate contact with the exposed ware surfaces.

1,919,323. SAW FRAME. GEORGE J. BLUM, Chicago, Ill., assignor to Armstrong-Blum Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed May 27, 1931. Serial No. 540,325. 8 Claims. (Cl. 29—73.)



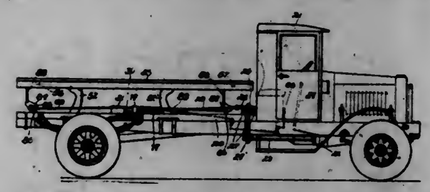
8. In a power driven hacksaw, a blade carrying frame having a rigid elongated casing of substantial width, with an elongated opening in one side, and means reciprocably supporting said frame including an elongated supporting member having a substantially flat face of a length greater than said opening and operating to maintain said opening closed in the reciprocation of the frame, and anti-friction bearings in the casing spaced apart longitudinally thereof and also in the cutting plane and adapted to resist strains both in said plane and transversely thereof.

1,919,324. CONTROL OF FURNACE TEMPERATURE AND FURNACE WALL CONSTRUCTION. FREDERIC G. ELY, Chatham, N. J., assignor to Fuller Lehigh Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 30, 1931. Serial No. 533,973. 8 Claims. (Cl. 122—235.)



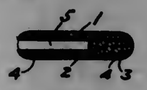
1. In a furnace for burning slag-forming fuel, a wall comprising water tubes, refractory material carried by portions of said tubes, and other portions of said tubes arranged to absorb heat more directly than the first mentioned portions, said portions being arranged alternately throughout substantially the entire wall surface to provide slightly cooled and highly cooled areas to regulate furnace temperature and prevent accumulation of large masses of slag.

1,919,325. LIFT BODY FOR MOTOR VEHICLES. HARRY A. FRICK, Chicago, and FLOYD O. ROUSH, Downers Grove, Ill., assignors to International Harvester Company, a Corporation of New Jersey. Filed Dec. 15, 1930. Serial No. 502,325. 7 Claims. (Cl. 298—11.)



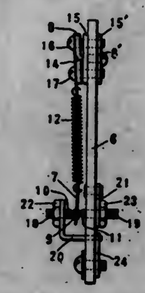
1. The combination with a vehicle having a frame and a power take-off, of a platform normally carried horizontally above the frame, racks connected to and adjacent the platform ends, said racks disposed in front and rear pairs, planetary gear sets arranged in front and rear sets to drive the racks for elevating the platform relative to the frame, and means connecting said planetary gear sets to be driven from the power take-off simultaneously or each set independently of each other.

1,919,326. ACCESSORY FOR AUTOMOBILES. WILLIAM R. GALLAGHER, Jr., and WILLIAM LE ROY LLOYD, Houtzdale, Pa. Filed Apr. 3, 1933. Serial No. 664,056. 3 Claims. (Cl. 40—10.)



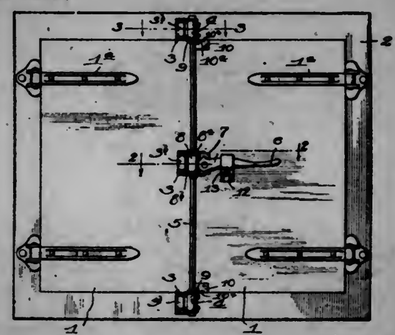
1. A corner protector for rear vision automobile mirrors consisting of a rubber or like disc having on its face a circular countersunk panel circumscribed by an upstanding undercut circular rim and provided internally with a quadrant shaped notch extending from near its center portion through the rim portion.

1,919,327. THERMOSTATIC SWITCH. BENJAMIN EVERETT GETCHELL, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed June 6, 1932. Serial No. 615,524. 6 Claims. (Cl. 200—138.)



1. A thermostatic switch including a one-piece bimetallic strip having an elongated closed ended slot therein intermediate its ends and a tension spring in said slot, said spring being secured to said strip at the respective ends of said slot and the axial center of said spring being in alignment with the edge center of said strip when said strip is in a straight line position.

1,919,328. REFRIGERATOR DOORLOCK. AUGIE L. HANSEN, Chicago, Ill., assignor to A. L. Hansen Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 13, 1931. Serial No. 556,734. 2 Claims. (Cl. 292—218.)

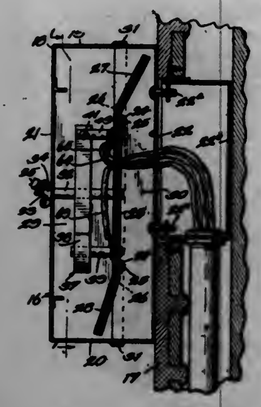


2. A locking device consisting of a sleeve having a lever lug projecting from one side thereof with an operating end parallel to said sleeve, a supporting bracket adapted for rotatively mounting said sleeve, said sleeve having a bar extending from its side opposed to said lever lug, and a handle pivoted to said bar to swing in a plane parallel to the rotative axis of said sleeve.

1,919,329. PURIFICATION OF CELLULOSE. CARLTON HENNINGSEN, Buffalo, N. Y., assignor, by mesne assignments, to Du Pont Rayon Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 16, 1928. Serial No. 247,262. 12 Claims. (Cl. 260—10.)

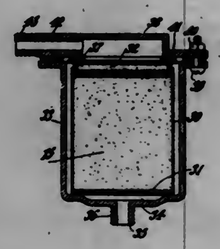
1. A cellulosic material to be used in the manufacture of rayon, said cellulosic material containing 98% to 99% of alpha cellulose and capable of forming a solution having a viscosity of 2.

1,919,330. TEMPERATURE REGULATION SYSTEM. JOHN C. HORNUNG, Glencoe, Ill. Filed Apr. 8, 1932. Serial No. 603,941. 11 Claims. (Cl. 236—1.)



8. In a device of the class described, a housing including two side by side open ended compartments, thermo-actuated means disposed in one of said compartments, and damper means for regulating the openings into said compartments.

1,919,331. HOUSEHOLD FILTER. KARL IMHOFF, Essen, Germany. Filed Jan. 29, 1930, Serial No. 424,177, and in Germany Mar. 8, 1929. 1 Claim. (Cl. 210—87.)



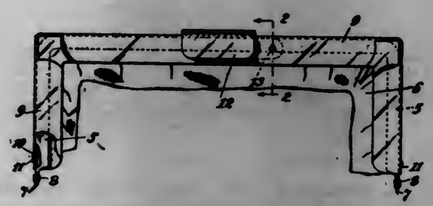
In a household filtering device, a casing having an open top with a flanged top end portion and a drawn out bottom having an outlet, a container in the casing for holding absorbent filtering material therein and having a reticulated element at the top and bottom thereof for compactly retaining the filtering material therein, a raised cover for the casing having a side inlet connection for a water supply line and a flange at the bottom of the cover for pressing against the flange of the casing and the container, said cover having its raised portion flat to form a water inlet chamber above the container substantially parallel with the surface of the container, and means for keeping the casing and cover tightly together, the inlet connection being arranged to permit a stream of water from the supply line to enter the chamber above the casing in a plane parallel with the surface of the filtering medium and thereby prevent the force of the admitted water from causing channeling of the filtering medium in the container.

1,919,332. BORE-HOLE SURVEYING DEVICE. PHILIP JONES, Los Angeles, Calif., assignor, by direct and mesne assignments, to Jones Oil Well Surveying Service, Ltd., a Corporation of California. Filed July 16, 1930. Serial No. 468,299. 20 Claims. (Cl. 234—5.3.)



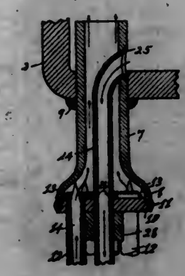
1. A method for determining the absolute azimuth of a surveying instrument consisting of the point-by-point photography upon an oriented surface of photographically distinguishable points on a revolving surface as such points occupy preestablished positions with respect to the vertical plane through the axis of said instrument.

1,919,333. HAND BAG. DAVID KARBON, Brooklyn, N. Y. Filed Dec. 6, 1929. Serial No. 412,067. 1 Claim. (Cl. 150—29.)
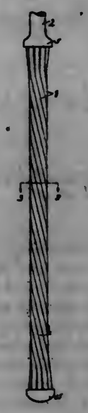


In a handbag frame, a pair of ornamental trim members of sheet material each having a continuous groove or channel, and means for hingedly connecting said members with each other consisting of metal frame elements hingedly connected at their ends and adapted to be respectively snugly fitted in the channels of said trim members, said frame elements being also of channel shaped cross sectional form to be clinched upon the marginal edges of the handbag material, and said elements in their intermediate portions and adjacent their hingedly connected ends being provided with outwardly struck tongues, said ornamental trim members having relatively yieldable end portions provided with openings therethrough to receive the tongues on the respective frame elements when said trim members are superimposed thereon, and said tongues adapted to be clinched inwardly upon the outer surfaces of said trim members to permanently secure the parts in assembled relation.

1,919,334. TUBE FOR MERCURY BOILERS. HOWARD J. KERR, Westfield, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed June 5, 1929. Serial No. 368,538. 3 Claims. (Cl. 122—318.)



1. In a mercury boiler, a liquid supply tube, a plurality of vapor generating tubes around said supply tube, and heat insulating material between said supply tube and the other tubes and supported in place by said last named tubes.

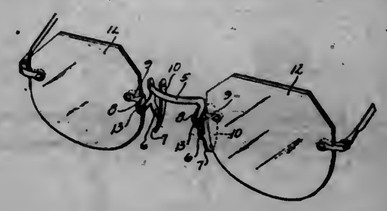
1,919,335. VAPOR GENERATING UNIT. HOWARD J. KERR, Westfield, and HARRY E. MELTON, Jersey City, N. J., assignors to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed July 10, 1929. Serial No. 377,099. 15 Claims. (Cl. 122—318.)



1. A vapor generating device for a boiler adapted for high boiling point liquid comprising a downcomer, junction fittings, a tube surrounding a portion of said downcomer leaving an annular space between them, and a plurality of tubes circumferentially disposed around said first named tube, said downcomer and tubes cooperating in the junction fittings.

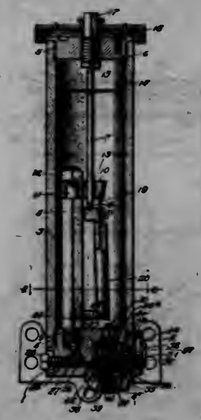
1,919,336. OPHTHALMIC BRIDGE MOUNTING. LAWRENCE J. KUEHN, Milwaukee, Wis. Filed May 20, 1929. Serial No. 364,434. 2 Claims. (Cl. 88—43.)

2. A one-piece planiform blank for ophthalmic mountings, said blank comprising a substantially rectilinear bridge portion, curved elbow portions at the ends of the bridge portion, substantially rectilinear lens mounting shank portions joined by said elbow portions to said bridge portion and converging from said elbow portions toward each other, arms diverging from each other and connected with said shank portions at positions offset



from said elbow portions, and pad supports at the free ends of said arms, said portions being integrally connected and disposed in a common plane, whereby said blank may be formed to fit individual requirements.

1,919,337. THERMOSTATIC CONTROLLER. JOHN M. LARSON, Chicago, Ill., assignor to National Regulator Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 12, 1930. Serial No. 481,450. 12 Claims. (Cl. 236—87.)



1. A thermostatic controller comprising a sealed thermally expansible and contractible chamber, a fluid pressure inlet duct in said chamber, a valve operated by the expansion and contraction of said chamber for controlling the inlet duct, an outlet duct in said chamber connecting the interior of said chamber with the outer air, a fluid pressure operable valve controlling said outlet duct, a second outlet duct for permitting the escape of fluid from said pressure operable valve, and a thermally operated valve for controlling said second outlet duct whereby when the thermally controlled valve is in open position the fluid is allowed to escape from said pressure operable valve thereby permitting the same to open.

1,919,338. DOORCHECK. LOUIS L. LEVENS, Merrick, N. Y. Filed May 14, 1932. Serial No. 611,297. 5 Claims. (Cl. 16—53.)

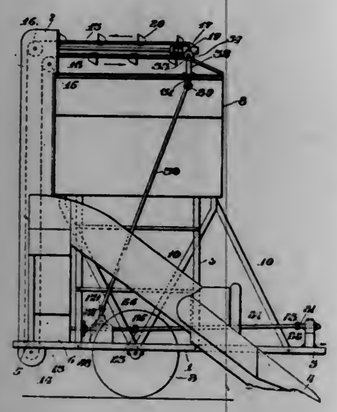
4. A door closer and check comprising in the assembled position a fixture mounted on a door frame and a closer and check mounted on the door and including a housing and a longitudinally movable member extending through the housing and into the fixture, said fixture and movable member being directly connected and the fixture includ-

ing means for transposing angular movement of the housing into longitudinal movement of the movable member in one direction and longitudinal movement of the movable member in the opposite direction into angular movement of the housing, and closer and check mechanism within



the housing including means acting upon said movable member tending to move it in the direction to cause angular movement of the closure mechanism and retarding means for retarding the movement of the movable member.

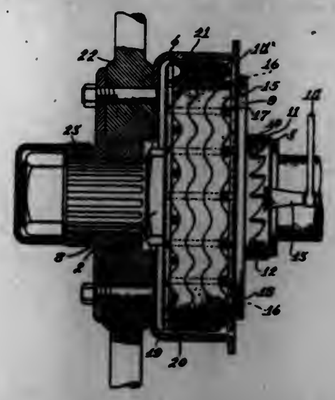
1,919,339. TANK FOR CORN PICKERS. ALEXUS C. LINDGREN, Chicago, CLEMMA R. RANEY, Riverside, and REX B. HITCHCOCK, Chicago, Ill., assignors to International Harvester Company, a Corporation of New Jersey. Filed Feb. 21, 1930. Serial No. 430,172. 5 Claims. (Cl. 56—18.)



1. In a corn picker attachment for tractors, a supporting frame mounted on a single wheeled axle and pivotally connected to the tractor, a grain tank mounted thereon, in a substantially balanced position over the axle, a picking unit mounted on the frame, a combined elevating and tank leveling means consisting of an endless conveyor extending upwardly from the picking unit to the tank and horizontally across the top of the tank, a drive shaft extending upwardly from the picker to the top of the tank adapted to drive the endless conveyor, and means operatively connecting said shaft with the picker operating mechanism.

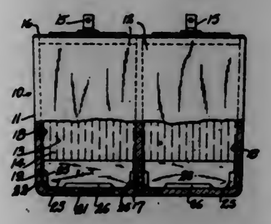
1,919,340. MECHANICALLY EXPANSIBLE ELEMENT. ROBERT E. LYFORD, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed July 13, 1929. Serial No. 378,169. 2 Claims. (Cl. 188—71.)

1. A surface contacting device comprising a member having a surface of revolution, a second member having a similar surface positioned to engage the first mentioned surface, the surface of the second member being



comparatively narrow and undulated in the direction of the axis of the surface, and means to alter the circumference of the undulated surface.

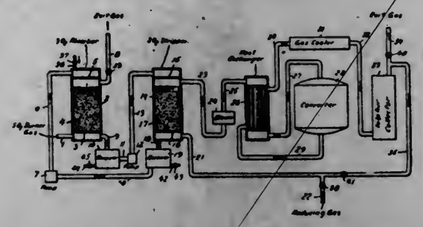
1,919,341. STORAGE BATTERY. JOHN E. MARSDEN, Philadelphia, Pa., assignor to Gayner Glass Works, Salem, N. J., a Corporation of New Jersey. Filed Mar. 10, 1931. Serial No. 521,478. 5 Claims. (Cl. 136—79.)



3. A device including a storage battery jar having relatively thin integral bottom and side walls, and a bottom rest for a battery member, said jar having a series of spaced pairs of lugs at opposite corners of the same, said lugs being reenforcingly integrally secured to the bottom and side walls of the jar and a pair of lugs at one corner affording a recess alined with that at an opposite corner, the bottom wall having a series of spaced pairs of elongated lugs intermediate of and spaced from the corner lugs and affording corresponding recesses alined with those of the pairs of corner lugs, the corner lugs being vertically elongated and extending to a greater height than the intermediate lugs, the free upright edges of the corner lugs intersecting the bottom wall substantially at right angles, the recesses of the corner and end lugs being shallow and having their bottoms in the planes of the respective walls along which they extend, and said bottom rest being removably positioned in said recesses.

1,919,342. PRODUCTION OF SULPHUR. HENRY F. MERRIAM, West Orange, N. J., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed July 9, 1931. Serial No. 549,632. 26 Claims. (Cl. 23—226.)

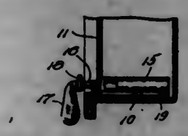
1. A process for the production of sulphur which comprises contacting a gas containing sulphur dioxide with an absorbing agent, removing sulphur dioxide from the absorbing agent by means of a reducing gaseous medium and reacting the sulphur dioxide and reducing gas in the presence of a catalyst to form sulphur.



19. A process for the production of sulphur which comprises contacting burner gas containing 5 to 12 per cent. sulphur dioxide with water at a temperature of about 20° C. countercurrently, removing sulphur dioxide from the water solution thus formed by passing natural gas therethrough countercurrently while maintaining the temperature of the solution upwards of about 35° C., heating the gaseous mixture, reacting the sulphur dioxide and natural gas in the presence of a catalyst to form sulphur and separating the sulphur from the residual gas by cooling.

26. In the process for the reduction of sulphur dioxide involving stripping sulphur dioxide from a sulphur dioxide absorbent containing the same with gas containing reducing medium, reacting the sulphur dioxide and reducing medium, and separating sulphur reaction products from inert tail gases of the reaction gas mixture, the improvement which comprises admixing with the reducing medium entering the stripping zone tail gases in such quantities as to facilitate stripping of the sulphur dioxide from the absorbent and to provide in the exit gases of the stripping zone substantially reacting proportions of sulphur dioxide and reducing medium.

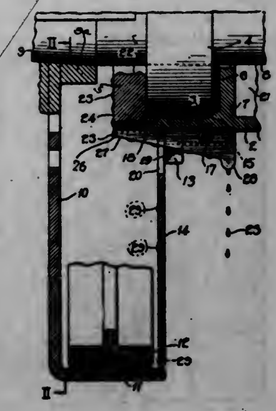
1,919,343. DUST COLLECTOR FOR INCLOSED BRAKE. FRANK E. PAYNE, Chicago, Ill. Filed Mar. 19, 1931. Serial No. 523,728. 12 Claims. (Cl. 188—2.)



1. The combination with a brake of the inclosed type having a rotatable drum and a fixed cover plate therefor, of means projecting within said drum, said means bearing lightly against the flange of said drum and acting substantially as a scoop for collecting and discharging free particles externally of the brake.

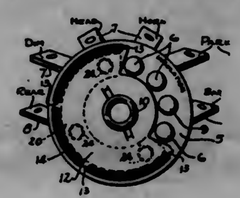
1,919,344. PROPULSION AXLE FOR MOTOR VEHICLES. OSCAR A. ROSS, New York, N. Y. Filed Aug. 9, 1928. Serial No. 298,440. 10 Claims. (Cl. 184—106.)

1. The combination with a propelling axle unit for motor vehicles having open ended brake mechanism supporting extensions, of propelling axles extending through the opening therein arranged to support propelling wheels on the protruding ends thereof, the wheels supporting brake drums whereby a space is formed between the drums and the opening of the extensions, bearings supported by the extensions for rotatably supporting the axles whereby lubricant from the housing of the unit may leakably escape therepast to the openings, guard members supported by the extensions for preventing foreign matter from entering the interior of the brake drums positioned in the path of the leaking lubricant flowing from the opening, the lubricant flowing downwardly on the inner side of the members toward the braking surfaces of the drums, and means supported by the



guard members independently of the extensions arranged in the path of the leaking lubricant arranged to redirect the flow thereof to the exterior of the members whereby no lubricant will flow onto the brake drums.

1,919,345. SWITCH. EMIL SINNER, Milwaukee, Wis., assignor to Clum Manufacturing Company, Milwaukee, Wis., a Corporation. Filed Mar. 12, 1931. Serial No. 521,934. 12 Claims. (Cl. 200—11.)



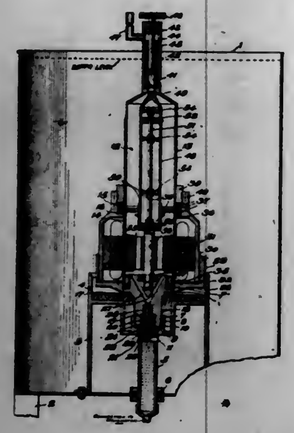
1. In a switch having complementary fixed and movable contacts defining tangible operative positions, the combination with a terminal head and a series of convex contacts mounted thereon, of a flexible contact carrier movable with respect to said head, concave contact members movable with said carrier, and means acting independently on said members for maintaining resilient pressure engagement between the contacts of the carrier and the contacts of the head.

1,919,346. VAPOR PRESSURE BOMB. HARRY LEIGHTON SMITH, Long Beach, Calif., assignor to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed May 2, 1929. Serial No. 359,783. 6 Claims. (Cl. 73—50.)

1. In a device of the kind described, a container adapted to contain fluid, an induction driven device for homogenizing the components of fluids within the container, and a liquid sealed connection for transmitting the pressure within the container to a pressure measuring device.

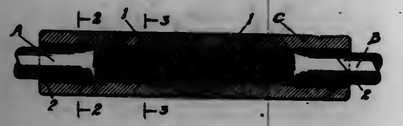
5. In a device of the kind described a vessel adapted to contain a temperature controlled fluid, a socket within the lower portion of said vessel, an upstanding flange about said socket forming a cup adapted to contain a fluid heavier than said first mentioned fluid, a closed

bomb adapted to be substantially immersed in said temperature controlled fluid and having a lower portion adapted to be inserted in said socket, a valve in the



lower portion of said bomb, and means in the socket for opening said valve when said lower portion is inserted in said socket.

1,919,347. COMPRESSED METAL JOINT AND METHOD OF MAKING THE SAME. CHARLES C. SUNDERLAND, New Brunswick, N. J., assignor to John A. Roebling's Sons Company, Trenton, N. J., a Corporation of New Jersey. Filed Jan. 9, 1931. Serial No. 507,745. 4 Claims. (Cl. 29—148.)

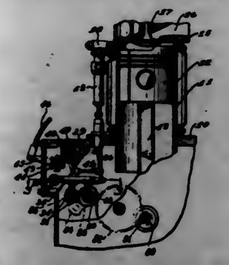


1. The method of making a compressed wire joint which consists in shaping to a non-cylindrical form the wire ends to be connected, applying thereon a sleeve having its inner surface of different form from the wire ends and extending beyond the noncylindrical portions of the wire ends, and compressing the sleeve upon the non-cylindrical portions of the wire ends and upon the wires beyond the non-cylindrical portions.

3. A compressed wire joint having wires with their ends shaped to non-cylindrical form, a sleeve extending over the non-cylindrical portions of the wire ends and the portions beyond the non-cylindrical portions and compressed thereon to form interlocking shoulders between the sleeve and wire ends outside the non-cylindrical portions of the latter, and interlocking projections between the portions of the sleeves and wires compressed together.

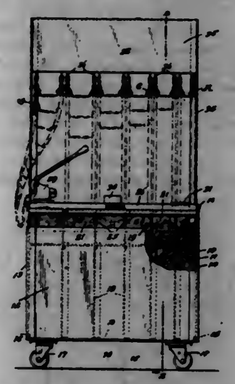
1,919,348. INTERNAL COMBUSTION ENGINE. MILTON TIBBETTS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 24, 1930. Serial No. 497,644. 11 Claims. (Cl. 60—16.)

1. In an internal combustion engine, a plurality of cylinders, a fuel injection device associated with each cylinder including a plunger, a pair of cam shafts driven at relatively different speeds for operating the plungers in sequence, a starter system for the engine, and means



for shifting said cam shafts to place the faster cam shaft in plunger operating position when the starter system is applied to the engine.

1,919,349. SALES CABINET FOR TIRE CHAINS. HOWARD WILCOX, New York, N. Y., assignor to The Chain Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 6, 1926. Serial No. 92,775. 8 Claims. (Cl. 211—1.)



4. In a device of the class described, the combination of a bin for containing the major portion of a length of stock chain for forming tire chains of the type of such chain which includes a pair of side chains and connecting cross tread members, a superstructure spaced above the bin to provide an open space above the bin for displaying the stock chain, a pair of chain supports carried by the superstructure, positioned above the bin and spaced apart whereby one end of the stock chain may be drawn from the bin and hung on said supports thus displaying the stock chain and providing easy access to the upper end thereof when it is desired to cut off a length from said end, and a work table at the top of the bin and positioned to one side of the opening into the bin, whereby a portion of the stock chain adjacent its end hung on the supports may be drawn laterally from its perpendicular position and positioned on the table for cutting and other operations thereon while leaving the end temporarily in position on the supports if desired.

1,919,350. OIL WELL CLEANING DEVICE. NEWTON W. WICKERSHAM, Los Angeles, Calif., assignor, by mesne assignments, to Yowell & Yarbrough, Inc., Los Angeles, Calif., a Corporation of California. Filed July 14, 1931. Serial No. 550,682. 1 Claim. (Cl. 166—20.)

In a device for cleaning perforated well casing, a hollow shaft, packing means fixedly attached to said shaft, second packing means slidably attached to said shaft, and a valve in the wall of said hollow shaft positioned between



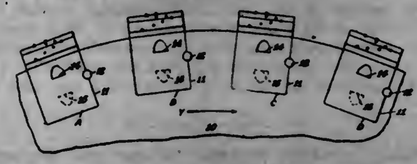
said first and second packing members for supplying fluid from said hollow shaft to the space between said packing means but preventing a reverse flow of fluid.

1,919,351. WALL-PAPER SCRAPER. MAGNUS WILLADSEN, Chicago, Ill. Filed Oct. 15, 1932. Serial No. 637,884. 12 Claims. (Cl. 216—8.)



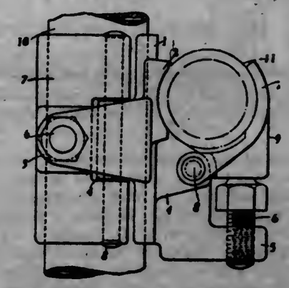
1. A hand wall paper scraper embodying a blade, said blade being of substantial length and width, said blade comprising a plurality of spaced elongated flexible prongs or tines, the sides of the free extremities of which tines converge to form a point.

1,919,352. SAW TEETH. VICTOR A. T. ALBRIGHT, Bedford, Ind. Filed May 6, 1932. Serial No. 609,599. 13 Claims. (Cl. 125—22.)



11. A saw tooth including a metal head portion having side faces disposed in planes converging toward the front of the tooth, and a plurality of cutting elements embedded in said metal head portion and projecting from said faces and having their cutting points spaced apart and disposed at varying distances from a plane passing centrally and longitudinally through said metal head portion, which varying distances increase from the front of the tooth toward the rear of the tooth.

1,919,353. COUPLING DEVICE. GEORGE WILLIAM AMOR, Norbury, England. Filed Mar. 14, 1931, Serial No. 522,744, and in Great Britain Apr. 17, 1930. 4 Claims. (Cl. 189—36.)



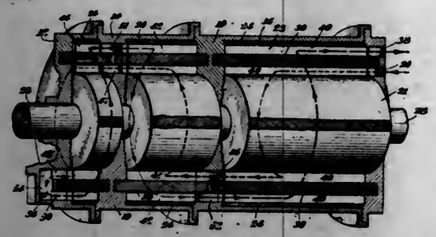
1. A coupling device for use in the erection of scaffolding and like temporary structures comprising a body member composed of a pair of oppositely disposed fixed elements each forming one part of a pair of clamping devices, a pair of hinged elements forming the other parts of said pair of clamping devices co-operating with each of said fixed elements, and a pair of headed screw elements mounted in the body member with their heads adjacent said hinged elements whereby said screws cannot be removed from said body member when said device is in any position and arranged when withdrawn from said body member to coact with and force the hinged elements into clamping position.

1,919,354. EXPANSION JOINT FOR TILED BATHTUB RECESSES. WILLIAM G. ANDERSON, Spring Lake, N. J. Filed Oct. 6, 1932. Serial No. 636,473. 18 Claims. (Cl. 22—0.5.)



1. In a joint structure for the purposes described, the combination with a hanger member affixed to a wall core and an installed structure to be supported by said hanger member, of a pair of cooperating joint plates overlying said wall core, one of which is contiguous to said hanger member and vertically movable with said installed structure relative to the other, a plaster scratch coat overlying said wall core and said joint plates and bonded to the movable joint plate, a tile bed coat bonded to said scratch coat, and cooperating courses of joint tiles, the lower course of which is contiguous to the installed structure and telescopically and vertically movable relative to the adjacent course upon parting of said scratch coat and tile bed coat at a point between said joint plates and said courses of joint tiles.

1,919,355. ROTARY INTERNAL COMBUSTION ENGINE. CHARLES BANCROFT, New Canaan, Conn. Filed July 30, 1932. Serial No. 626,515. 4 Claims. (Cl. 60—44.)



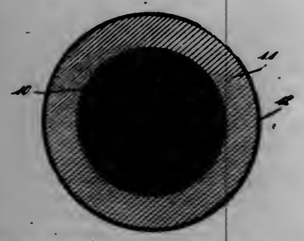
1. A device of the character described, which includes, a casing provided with a plurality of sections, partitions between said sections, a rotor construction provided with a hub and vanes in said sections, a sealing sleeve in each section cooperating with said vanes to form a plurality of compression chambers between said sleeves and said rotor hub and a plurality of expansion chambers, between said sleeves and said casing, said partitions being provided with ports affording communication between the chambers of each set, and means whereby said sets of chambers may communicate at a point adjacent one end of said device and means for injecting fuel at such point.

1,919,356. HOSE. GEORGE K. BEDUE, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed May 12, 1932. Serial No. 610,846. 5 Claims. (Cl. 137—90.)



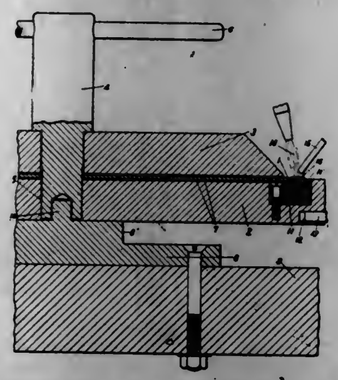
1. A hose comprising a textile jacket and an all-rubber lining therefor, a coupling member engaging an end of the hose, and a reinforcement comprising a bias-laid collar of textile material extending from that portion of the base engaged by the coupling only to a zone of the hose adjacent thereto for distributing longitudinally applied strains from the coupling member to a substantial area of the jacket.

1,919,357. PLAY BALL AND METHOD OF MAKING THE SAME. JOHN D. BEERE, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Oct. 3, 1931. Serial No. 566,701. 8 Claims. (Cl. 273—60.)



1. A play ball comprising a reticulated mass of fibers united only at their crossing positions by a flexible agglutinant.

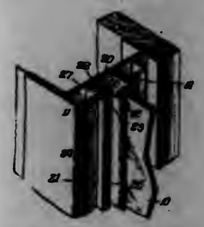
1,919,358. CIRCULAR SAW AND METHOD OF MAKING THE SAME. JOSEPH P. BEM, Oakland, Calif., assignor to Pacific Pitting Machine Company, Inc., Fresno, Calif., a Corporation of California. Filed May 13, 1932. Serial No. 611,072. 5 Claims. (Cl. 76—112.)



1. The process of making a circular saw which comprises stretching the edge of a tough metal disk slightly, welding a hard alloy rim around the edge of the disk, and cutting teeth into the alloy rim.

2. A circular saw comprising a flat body disk of flexible tough sheet metal provided with teeth of hard metal alloy built up around the disk and integrally united thereto by welding process from the molten alloy.

1,919,359. WINDOW CONSTRUCTION. GLENN H. BRITAIN, Chicago, Ill., assignor to The Adlake Company, Chicago, Ill., a Corporation of Illinois. Filed July 30, 1931. Serial No. 553,907. 1 Claim. (Cl. 189—65.)

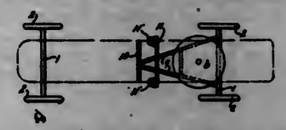


In window construction, the combination with a vertically slidable sheet metal sash, vertical guides at the sides of the sash, and means for pressing the sash outwardly against the outer walls of the guides when the sash is closed, of flat wear strips secured to the outer walls of the side rails of the sash within the guides in direct opposition to the outer walls of the guides for extended surface contact with the latter, said wear strips being provided beyond the edges of the outer walls of the guides with outwardly projecting flanges, and cover strips secured to the guides and provided beyond the edges of the outer walls of the guides with offset flanges which extend about the outwardly projecting flanges on the wear strips to provide labyrinth-like shields for the contact portions of the wear strips when the sash is closed.

1,919,360. CRANE FRAME. EUGENE G. DEUCHER, Cleveland, Ohio, assignor to The Universal Crane Company, Lorain, Ohio, a Corporation of Ohio. Filed Mar. 25, 1931. Serial No. 525,159. 1 Claim. (Cl. 296—35.)

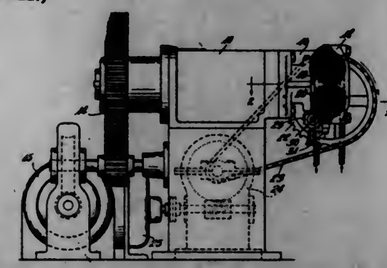
Apparatus of the class described comprising, in combination with a vehicular chassis embodying front and

rear pairs of traction elements and spaced side rails as a connecting means therebetween, means for supporting a load weight on said chassis including means for distributing the weight of the load on the two spaced side rails regardless of the position of the center of gravity of the load, said supporting means including a triangular frame having one of its points of rest intermediate said



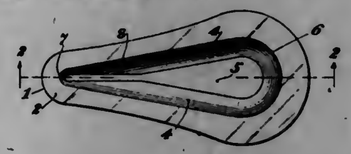
spaced side rails, and means for preventing excessive twisting stress on said side rails when the center of gravity of the load is to one side of the longitudinal center line of the chassis, said last named means including stirrup members connected to said triangular frame and said side rails respectively and normally in ineffective position.

1,919,361. APPARATUS FOR FORMING PLASTIC STRIP MATERIAL. THAYER B. FARRINGTON, Pasadena, Calif., assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed May 3, 1932. Serial No. 608,914. 6 Claims. (Cl. 18—12.)



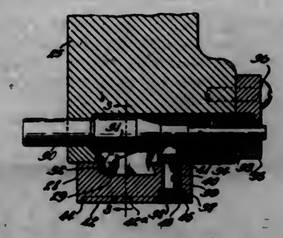
5. Apparatus for forming strip rubber comprising, in combination, a forcing screw, a pair of rolls in advance of said screw defining between them a relatively thin strip-forming opening wider than the diameter of said screw, a material conducting chamber having a pair of diverging walls extending between said screw and the margins of said opening, means for varying the relative positions of said rolls in a radial direction, and means for rotating said screw and for rotating said rolls, said rotating means including means for varying the relative speeds of said screw and said rolls.

1,919,362. PIPE HOLDER. ALBERT P. FISKE, Hoboken, N. J. Filed June 3, 1932. Serial No. 615,144. 4 Claims. (Cl. 131—51.)



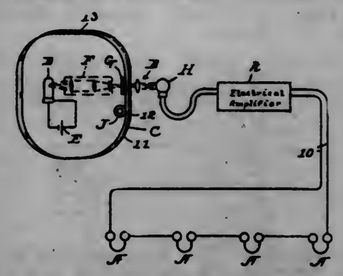
1. A smoker's pipe support comprising a body portion having a pipe supporting recess therein, said recess comprising a large semi-circular configuration at one end thereof and a small semi-circular configuration at the other end thereof, with the inclined supporting walls of said end configuration, each comprising substantially one-half of a frustum of an inverted cone, and inclined walls between the halves forming tangents to the sides of said halves.

1,919,363. APPARATUS FOR EMBOSSING PLASTIC ARTICLES. FRED D. FOWLER, Newton, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Mar. 12, 1932. Serial No. 598,523. 7 Claims. (Cl. 101—28.)



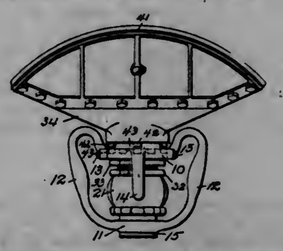
1. Apparatus for embossing a plastic article, said apparatus comprising a plane-faced backing, and, adapted to co-act therewith, an embossing-die holder, a female embossing die mounted thereon, and formed with a mortise therein, and an auxiliary female embossing die seated in said mortise, the design of the two dies being so closely associated that they constitute virtually a single design.

1,919,364. METHOD OF AND MEANS FOR SCORING MOTION PICTURES. WILLIAM E. GARITY, Los Angeles, Calif., assignor to Roy O. Disney, Los Angeles, Calif. Filed May 9, 1930. Serial No. 451,015. 8 Claims. (Cl. 80—16.2.)



1. A method of producing accurately timed sound records for use with motion picture films, comprising aurally imparting time signals to a sound source without causing said signals to be audible to observers, said signals being timed in accordance with the normal speed of projection of the film for which the sound record is to be made, and recording sounds produced by said sound source in response to said signals.

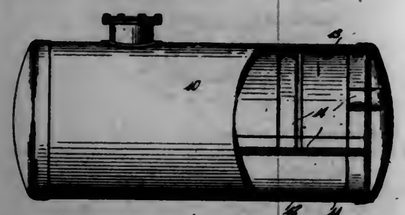
1,919,365. FIRE-FIGHTING EQUIPMENT. JOHN J. GILSENAN, Newark, N. J. Filed Oct. 10, 1930. Serial No. 487,829. 5 Claims. (Cl. 299—73.)



2. A connection comprising spaced bearings having handles connecting them and at least one having a hook projecting at right angles to the handles, and a central

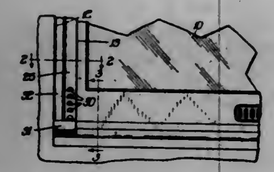
two part rotatable member in the bearings and projecting beyond them and having hose connections at its ends, the parts of said rotatable member being arranged for fluid tight rotation one with respect to the other.

1,919,366. RUBBER LINING FOR ACID CONTAINERS. WALTER T. HAINES, Stow, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Feb. 20, 1931. Serial No. 517,146. 5 Claims. (Cl. 220—63.)



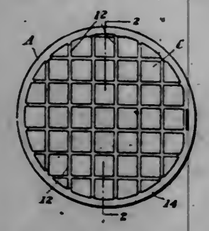
1. A chemically-resistant structure comprising a rigid wall structure and, adhered thereto, a cushion layer of soft rubber, a non-permeable layer of hard rubber, and a protective layer of soft rubber, in the order named.

1,919,367. SASH GUIDE. WILLIAM S. HAMM and HARRY D. SEVISON, Elkhart, Ind., assignors to The Adlake Company, Chicago, Ill., a Corporation of Illinois. Filed July 30, 1931. Serial No. 553,912. 14 Claims. (Cl. 189—75.)



1. In a sash guide, a thin flexible spring strip adapted to engage resiliently with the outer face of a vertically slidable sash, a rigid protective strip in front of the spring strip, and a vertically arranged series of downwardly discharging louvers in the rigid strip adjacent the lower end of the latter for draining the space between the rigid strip and the spring strip.

1,919,368. TIRE PATCH. WILLIAM H. HODGSON, Moose Jaw, Saskatchewan, Canada. Filed Nov. 16, 1932. Serial No. 642,918. 3 Claims. (Cl. 152—26.)

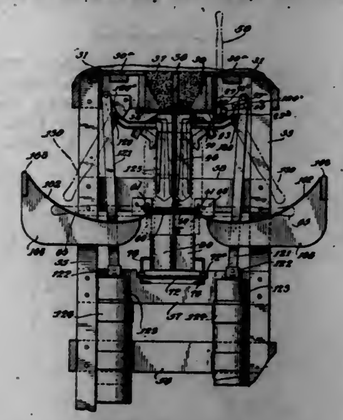


1. A tire patch for tire shoes and the like comprising a base of flexible material, a layer of raw or semi-cured gum rubber mounted on and connected to the said base, the edges of the said layer being bevelled and a series of intersecting rib members formed on the face of the said layer of gum rubber.

1,919,369. METHOD OF PREPARING FAT-SOLUBLE VITAMIN-CONCENTRATES. HORACE A. HOLADAY, Highland Park, and ARCHIE BLACK, New Brunswick, N. J., assignors to E. R. Squibb & Sons, New York, N. Y., a Corporation of New York. Filed Nov. 10, 1932. Serial No. 642,062. 5 Claims. (Cl. 167—81.)

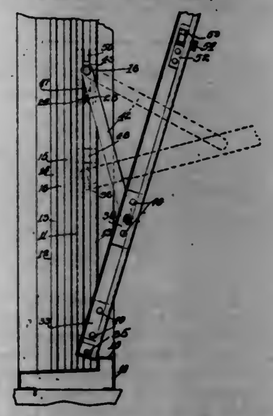
1. The method of concentrating vitamin-containing fats that comprises essentially the steps of saponifying them with alcoholic concentrated sodium hydroxide solution and adding to the saponification mass, which then is less than one-fourth water by weight and is hot, a vitamin-solvent-soap-precipitant selected from the group consisting of ether, dichlorethylether, and acetone.

1,919,370. APPARATUS FOR PACKAGING CANDIES OR THE LIKE. JOSEPH M. HUTCHINSON, Chicago, Ill., assignor to E. J. Brach & Sons, Chicago, Ill., a Corporation of Illinois. Filed Feb. 2, 1931. Serial No. 512,790. 21 Claims. (Cl. 226—59.)



1. In an apparatus of the class described a plurality of bag holders, a shaft carrying said bag holding members and rotatable to move the same from filling position into inverted bag charging position, and a counterweight operatively associated with said shaft to substantially counterbalance said bag holders.

1,919,371. WINDOW STRUCTURE. WILLIAM J. KLEMM, Chicago, Ill. Filed Dec. 31, 1931. Serial No. 584,060. 14 Claims. (Cl. 189—69.)



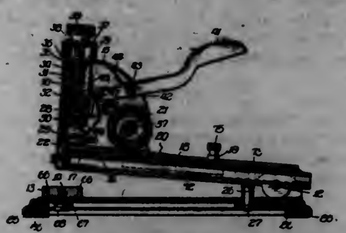
4. In window structure, the combination of a window frame having side channels, a sash, supporting structures

in said channels, means connecting said sash for pivotal connection with and sliding connection relative to said supporting structures, arms pivoted at their lower ends to said sash, braking means within said channels between the upper ends of said arms and said supporting structures, and means whereby swing of said sash will cause operation of said braking mechanism to secure said supporting structures and the upper ends of said arms against movement relative to said channels.

1,919,372. POROUS MOLDED PRODUCT AND PROCESS OF MANUFACTURING THE SAME. MAX H. KLIEFOTH, Madison, Wis., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis., a Corporation of Delaware. Filed Nov. 11, 1931. Serial No. 574,363. 15 Claims. (Cl. 154—2.)

1. A porous molded product comprising a mixture of a filler, alkali silicate and alkali tetraborate puffed by heat into a rigid mass, said alkali tetraborate being present in an amount less than that of said alkali silicate.

1,919,373. STAPLING MACHINE. EDWARD KRANTZ, Chicago, Ill., assignor, by mesne assignments, to A. L. Hansen Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 28, 1931. Serial No. 519,212. 8 Claims. (Cl. 1—3.)



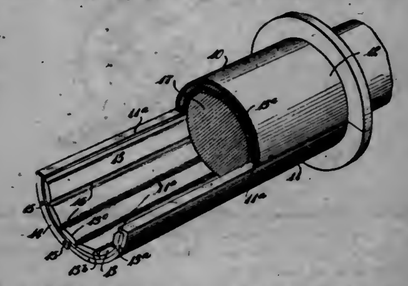
1. In a stapling machine, a base which is provided at its front end with a staple-clinching die, an arm which is pivoted at its rear end to the rear end of the base and is provided at its front end with a staple-driving mechanism for coaction with the die, spring means for normally maintaining the front end of the arm in a raised position, an operating lever for the mechanism which is pivoted at its front end to the front end of the arm and is provided at its rear end with a handle, and spring means for normally maintaining the rear end of the lever in a raised position, said handle having a knob-like portion which is located a substantial distance in front of the pivotal connection between the arm and the base, and said first mentioned spring means being such as to yield fully upon depression of the handle before the second mentioned spring means begins to yield, whereby to cause the staple-driving mechanism to be moved into engagement with the die before the mechanism commences to operate.

1,919,374. METHOD AND APPARATUS FOR FORMING ARTICLES OF PLASTIC MATERIAL. CHARLES W. LEGUILLON, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Oct. 3, 1931. Serial No. 566,700. 5 Claims. (Cl. 18—30.)



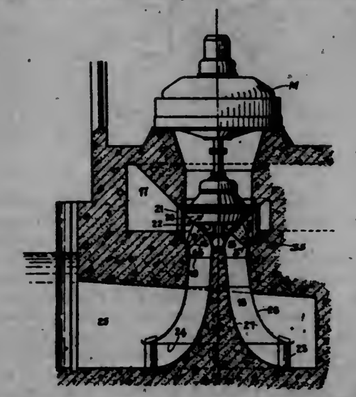
2. Apparatus of the class described comprising an open-cavitied mold member, means for extruding plastic stock into the mold cavity by relative movement of the mold member and extruding means, said mold being formed with a plurality of apertures leading from a wall of the cavity, and means for applying suction to said apertures during said relative movement of the mold and extruding means.

1,919,375. RUBBER BEARING STRUCTURE. ANDREW D. MACLACHLAN and KARL E. FREUND, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Jan. 10, 1931. Serial No. 507,844. 5 Claims. (Cl. 308—238.)



1. A bearing structure comprising a bearing sleeve section and a set of bearing strips seated only on the inner curved face thereof, each of said strips having a soft rubber shaft-contacting portion forming an acute angle with the surface of the shaft and being removable longitudinally from the sleeve section in sliding engagement therewith.

1,919,376. REVERSIBLE PUMP TURBINE. LEWIS FERRY MOODY, Philadelphia, Pa. Filed Jan. 11, 1929. Serial No. 331,910. 43 Claims. (Cl. 253—148.)

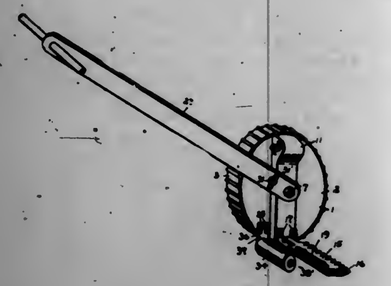


1. A hydraulic reversible pump-turbine comprising entrance and discharge passages and a runner having blades forming passages therebetween, the walls of all of said passages being arranged whereby the flow areas thereof are so proportioned that if laid out as equivalent conical tubes the angle of the conical wall to the cone axis will be relatively small as by being within a range of values with a maximum limit of approximately 10° whereby in either direction of runner rotation the fluid flow throughout will be accelerated or decelerated at a relatively small rate.

1,919,377. GRASS TRIMMER. HERBERT R. PALMER, Shaker Village, Ohio. Filed Nov. 24, 1931. Serial No. 577,118. 4 Claims. (Cl. 56—271.)

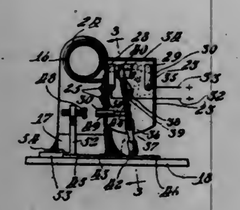
1. A grass trimmer, comprising a body part, a traction wheel rotatably connected with said body part, a continu-

ous integral cam formed on the said wheel, a rocking lever, having two angularly related arms, one of which being pivotally supported on said body part, means on said lever and engaging with said cam for imparting



oscillatory movement to said pivotally supported lever, and cutting means attached to said body and including a reciprocable means interconnected with and operable by the other arm of said lever.

1,919,378. AUTOMATIC SWITCHING DEVICE. JOSEPH N. PEPIN, Chicago, Ill., assignor to G. Curtis Bird, Wilmette, Ill. Filed May 27, 1929. Serial No. 366,281. 9 Claims. (Cl. 274—1.)

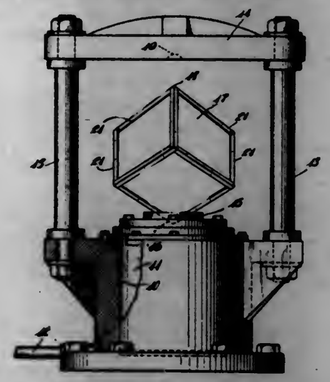


2. In a phonograph, the combination with a plurality of electric circuits for affecting the actuation of independent mechanisms for said phonograph, of a rotatable support adapted to receive a sound record thereon, an oscillatable sound box adapted to engage with said record, a switching device for selectively and alternately making and breaking said circuits, and means for automatically controlling said switching device responsive to a change in directional movement of said member irrespective of the position thereof over predetermined areas adjacent the center of the record in respect to one of said circuits and the periphery of said record in respect to the other of said circuits.

1,919,379. METHOD OF PRODUCING BERYLLIUM-ALUMINIUM ALLOY. WALTER PFAU, Cologne-Muhlheim, Germany, assignor to Emil Baggli, Zurich, Switzerland, and Edwin Burger, Gisikon, near Root, Switzerland. Filed Mar. 5, 1932, Serial No. 597,089, and in Germany Mar. 14, 1931. 2 Claims. (Cl. 204—19.)

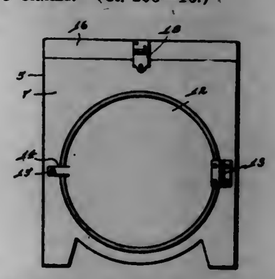
1. A method of producing beryllium-aluminium alloys in compact form or as coating by electrolysis of fused electrolytes, which consists in employing as electrolyte a melt of basic fluorides of beryllium and aluminium jointly obtained from the ores and adding thereto halogen salts of the alkaline and alkaline earth metals to act as conducting salts.

1,919,380. METHOD OF REMOVING ARTICLES FROM PACKING CASES. JAMES W. SCHADE, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Mar. 14, 1930. Serial No. 435,977. 6 Claims. (Cl. 83—94.)



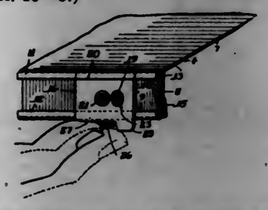
1. The method of removing an adhesive resilient non-compressible article from a packing case completely enclosing the same in close engagement therewith which comprises applying to the case a compressive force which is diagonally directed with relation to its sides.

1,919,381. COMBINATION SAFETY RAZOR CASE AND USED BLADE CONTAINER. FRANK A. SELL, Los Angeles, Calif. Filed July 16, 1932. Serial No. 622,868. 3 Claims. (Cl. 206—16.)



1. An article of the character described comprising a casing, a tray mounted in the top of said casing having depressions for the reception of a safety razor, a receptacle disposed in said casing beneath said tray, and a chute establishing communication between one of the depressions in said tray and said receptacle.

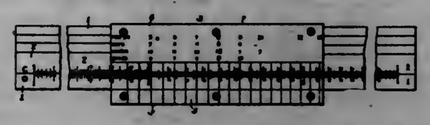
1,919,382. DETACHABLE METER DEVICE. LEWIS R. SHERWOOD, Detroit, Mich., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a Corporation of Illinois. Filed Dec. 9, 1932. Serial No. 646,501. 11 Claims. (Cl. 40—5.)



5. The combination with a label holder having upper and lower grooves, a sales metering device carried by

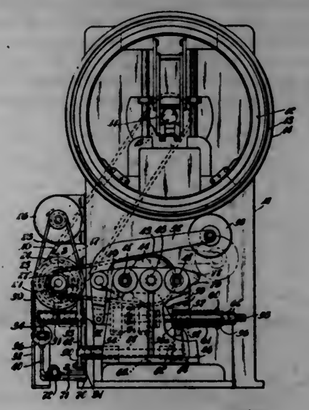
the holder and comprising a rear member arranged in the grooves and supported by the holder, a front member spaced from the rear member and having a side engageable with one of said grooves, a third member arranged between the front and rear members, and means passing through said three members and pivotally connecting the same together, said third member having its lower end arranged outside of the holder and face of the groove.

1,919,383. FOOTWEAR AREA CALCULATOR. JOSEF SIKSTA, Berwyn, Ill., assignor to B. J. Wallace, Kent, Ohio. Filed Jan. 2, 1931. Serial No. 506,187. 5 Claims. (Cl. 235—70.)



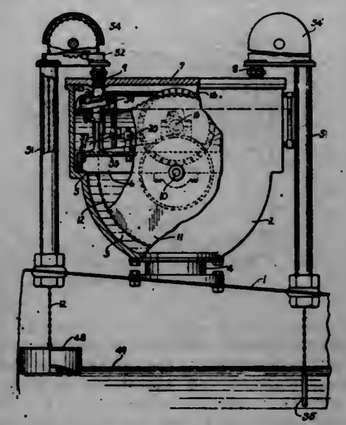
1. A slide rule comprising a base marked with a scale, a slide marked with a scale for direct-reading association with the scale of said base, a cursor mounted on said base and provided with a transparent portion over the said scales and an opaque portion adjacent thereto, the transparent portion being logarithmically marked with lines transverse to the said scales, including a directly transverse line representing area per standard unit of material and other directly transverse lines representing areas for variations from the standard unit, and the opaque portion being marked, opposite the said lines, with corresponding indicia of the standard unit and variations therefrom.

1,919 384. TIRE-BUILDING APPARATUS. FRANK SLUSHER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1930. Serial No. 448,548. 9 Claims. (Cl. 154—10.)



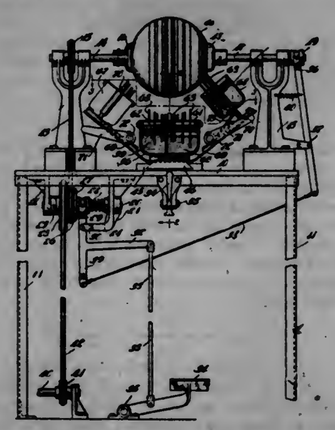
1. In tire-building apparatus, the combination of a rotatable tire-building form, a rtitching tool adapted to operate upon a tire on said form, a support for said tool, a rotatable screw permanently engaging said tool support adapted to feed it in the direction, parallel to the axis of the form, and means for reversing the rotation of the screw automatically when the tool support reaches a determinate position.

1,919,385. CIRCUIT BREAKER. ROY M. STAFFORD, Beaumont, Tex., assignor to Stafford Electric Gauge Corporation. Filed June 23, 1930. Serial No. 463,298. 5 Claims. (Cl. 200—84.)



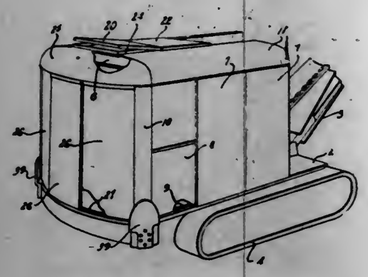
5. A circuit breaker for liquid level indicators including a liquid container, a casing thereon, a shaft rotatable in said casing, means on said shaft to rotate the same in response to changes in liquid level in said container, a rocking arm, a mercury contact switch thereon, a lever adjacent said shaft, means on said shaft to engage said lever when said shaft is rotated in one direction, a rod on said lever projecting through a slot in said arm, a shoulder on said rod engaging said arm, when said lever is moved, and means to disengage said shoulder from said arm when said switch has been closed.

1,919,386. MACHINE FOR STRIPING. CHARLES W. STEELE, deceased, Akron, Ohio, by Lillian K. Steele, administratrix, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed July 31, 1931. Serial No. 554,251. 3 Claims. (Cl. 91—12.)



1. Apparatus for striping surfaces of spherical articles, said apparatus comprising means for positively rotating the article, a paint pot, a plurality of freely rotatable striping wheels rotatable independently of each other in said pot and arranged simultaneously to contact with the spherical surface of the article, and means for advancing the paint pot toward the article to bring the striping wheels into engagement therewith.

1,919,387. CAB. THOMAS F. STRINGER, Elyria, Ohio, assignor to The Thew Shovel Company, Lorain, Ohio, a Corporation of Ohio. Filed May 26, 1931. Serial No. 540,081. 1 Claim. (Cl. 296—47.)



A cab structure for a power shovel comprising a frame, a roof portion curved vertically at its two side edges and at its rearward edge, and curved in a horizontal plane at its rearward end, a plurality of sliding doors curved generally with the curvature of the rearward end of said frame and extending substantially from the top to the bottom of the cab, a plurality of sets of upper and lower tracks at the rearward end of said cab, there being a set of tracks for each curved door whereby said doors may be slidably moved individually of the others to a position to form a complete closure for the rearward end of the cab or moved to nested relation to provide openings of varying size, and means for adjusting the vertical length of said doors whereby they may be adapted to different sets of tracks and may be readily inserted or removed from a set of tracks.

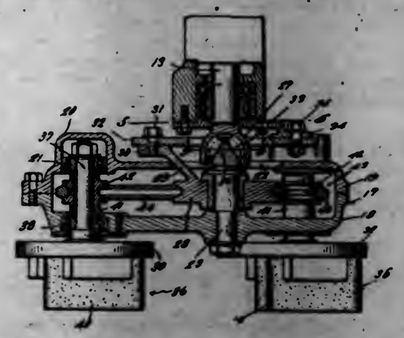
1,919,388. SAFETY RAZOR. JOSEPH MUROS, New York, N. Y., assignor to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware. Filed May 21, 1931. Serial No. 538,990. 3 Claims. (Cl. 30—12.)



1. A safety razor comprising blade clamping members, means to clamp said members against a blade, one of said members having projections and the other recesses accurately fitting said projections and locating the two members in shaving relation, one of said members having an independent set of projections to locate and hold in shaving position a blade that has a large internal opening affording clearance with respect to said first-named projections.

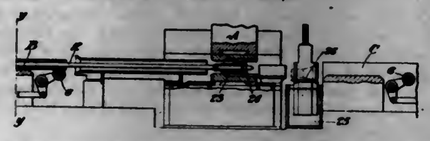
1,919,389. PLANETARY TYPE SURFACING MACHINE. HARRY L. MYERS, Toledo, Ohio, assignor to The American Floor Surfacing Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed May 28, 1932. Serial No. 614,182. 8 Claims. (Cl. 51—177.)

1. In a machine of the class described, a fixed guide, a power actuated drive shaft mounted for rotation in said guide, a revoluble head, a plurality of rotary surfacing units mounted on said head, a driven shaft in alinement with said drive shaft, a universal joint securing said shafts together for simultaneous rotation, said driven shaft being keyed to said head to revolve the head, a flexible annular web, means fixedly securing said web to the guide, the web being interposed between the head and guide, a fixed friction drive member sur-



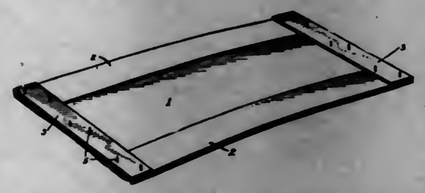
rounding said driven shaft and connected with said web, and operating means for said rotary unit cooperable with said fixed driving member.

1,919,390. EXPANDING MILL. OLOF F. OLSON, Gary, Ind., assignor to National Tube Company, a Corporation of New Jersey. Filed Aug. 28, 1931. Serial No. 560,001. 3 Claims. (Cl. 80—13.)



3. The combination with a tube expanding mill having an in-going trough and an outgoing through on the opposite sides thereof, of an expanding plug-bar thrust-block mounted to the rear of said in-going trough for movement toward and away from said mill, a plug-bar journaled in and supported by said thrust-block, a plug support on the outgoing side of said mill between said out-going trough and said mill, an expanding plug adapted to be removably secured to said bar and to be carried by said plug support when removed from said bar, means for moving said thrust-block toward and away from said mill to move said bar through a tube in said in-going trough, and means for locking said thrust-block in position to locate said plug between the rolls of said mill.

1,919,391. TOP FOR FRUIT AND VEGETABLE BOXES OR CRATES. PORTER G. PIERPONT, Savannah, Ga. Filed Dec. 31, 1932. Serial No. 649,709. 3 Claims. (Cl. 217—56.)



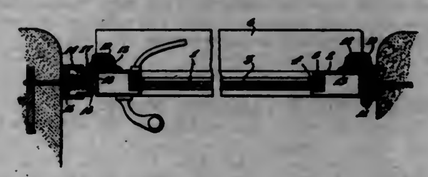
1. A cover for fruit or vegetable boxes or crates consisting of a polygonal relatively flexible sheet of material with two or more reinforcing strips attached thereto along opposite edges, said strips having superposed upon their ends two substantially rigid cross pieces, the intermediate portions of said cross pieces being provided with means for drawing the aforesaid sheet of material into engagement with said cross pieces.

1,919,392. METAL DOOR JAMB. EDWIN G. REINHARDT, Cincinnati, Ohio. Filed Feb. 18, 1931. Serial No. 516,626. 2 Claims. (Cl. 189—46.)



1. A metallic jamb for doors and the like, comprising, a strip having a longitudinal marginal offset portion on its face side, a rib extending at right angles centrally of said offset portion having a beaded head, and an elastic strip longitudinally channelled and corresponding to the contour of the rib for engagement thereon, securely mounting the elastic strip to the metallic strip and abuttingly contacting against the face of said offset portion, said strip having a lip extending from its forward edge for compressively contacting with a door engaged thereagainst.

1,919,393. METAL DOOR JAMB. EDWIN G. REINHARDT, Cincinnati, Ohio. Filed Nov. 23, 1931. Serial No. 576,748. 2 Claims. (Cl. 189—46.)



1. An adjustable door jamb, comprising, a pair of channel strips with the channels thereof opposing each other, and one strip telescoped within the other to provide a hollow unit, a series of springs interposed between said strips and housed thereby for urging the strips apart, studs within the channels fixed to one of the strips, each respectively supporting a spring, and fastening devices passing through said strips and studs and into the wall to which the jamb is secured and relatively adjusting said strips.

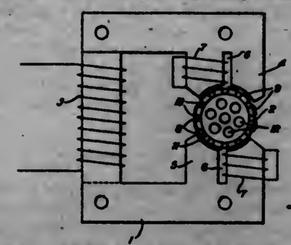
1,919,394. PIPE TABLE. MAX ROSENKRANS, Bethel Township, Pa., assignor to National Tube Company, a Corporation of New Jersey. Filed Apr. 11, 1932. Serial No. 604,597. 6 Claims. (Cl. 214—1.)



1. A pipe table including a vertically adjustable frame, pipe conveying rollers on said frame, jack rollers constructed and arranged on said frame to lift a pipe off said conveying rollers and allow its rotation, and means for discharging a pipe from said conveying rollers.

1,919,395. SYNCHRONOUS MOTOR. ORVIS F. ROWE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 29, 1922. Serial No. 557,294. 29 Claims. (Cl. 172—278.)

1. A single-phase induction motor comprising a stator member having split poles and shading coils on the trailing sections of said split poles, and a rotor member comprising a magnetizable core member having open slots providing a larger number of poles than said stator poles and a squirrel-cage winding comprising conductors dis-



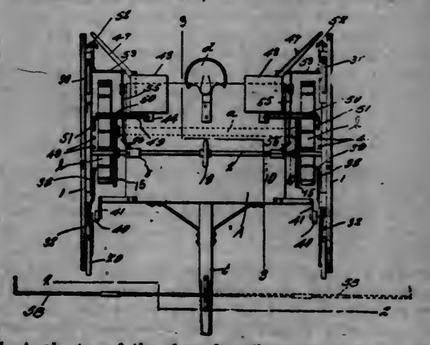
posed in said rotor slots, the parts being so designed that the rotor poles lock into synchronism with the stator poles at a sub-synchronous speed.

1,919,396. MACHINE FOR PULLING PLANTS. HARVEY ARTHUR SADLER, Cuyahoga Falls, Ohio. Filed June 4, 1931. Serial No. 542,005. 5 Claims. (Cl. 55a—65.)



1. The combination in a plant pulling device of a stem having a plurality of fixed fingers spaced apart, with a pivoted finger between each of the fixed fingers, said pivoted fingers being capable of alignment with the fixed fingers, and means for rotating the pivoted fingers and stationary members coacting with the pivoted fingers to grasp the plant.

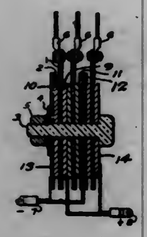
1,919,397. CORN PLANTER. JACOB SALSBURG, Wilkes-Barre, Pa. Filed Jan. 11, 1933. Serial No. 651,208. 7 Claims. (Cl. 111—91.)



1. A planter of the class described comprising a wheel supported frame, a shaft supported for vertical move-

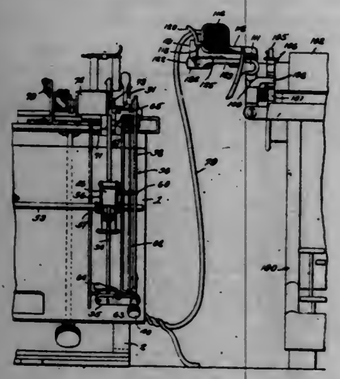
ment by the frame, a planter wheel at each end of the shaft, a hopper carried by each wheel, delivery means carried by each wheel for delivering seed from the hopper to the ground, means for controlling the passage of seeds to the delivery means, manually operated means for raising and lowering the shaft to raise and lower the seed wheels, means for rotating the shaft when the same is in lowered position, and means whereby the passage of seeds through the delivery means is stopped when the shaft is in raised position.

1,919,398. COPPER OXIDE RECTIFIER. DANILO SANTINI, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 18, 1929. Serial No. 371,901. 2 Claims. (Cl. 175—366.)



1. A polyphase rectifier comprising a plurality of groups, each consisting of two unilaterally conductive elements having their unlike terminals in contact with each other, means for mounting a plurality of said groups with like terminals contiguous to each other, means for making alternating-current line connections to intermediate points of each of said groups, and means for making direct-current line connections to end terminals of said groups.

1,919,399. TYPEWRITER ATTACHMENT. FRANK M. SPERLING, Bristol, Pa., assignor of forty per cent to Thomas Rozakis, Bristol, Pa. Filed Nov. 19, 1932. Serial No. 643,491. 6 Claims. (Cl. 120—34.)



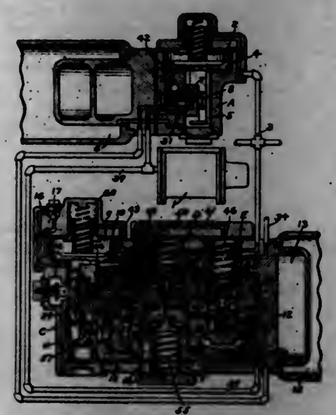
1. In a device of the class described, a typewriter having a platen, mechanism for actuating the platen, and an electric switch on the typewriter and operatively connected with a part of said mechanism, whereby the switch will be opened and closed when said mechanism is operated.

1,919,400. APPARATUS FOR THE EVAPORATION OF LIQUIDS. RICHARD ALBERT STOKES and EDWIN GILBERT LLEWELLYN ROBERTS, London, England. Filed June 28, 1930, Serial No. 464,618, and in Great Britain Nov. 11, 1929. 7 Claims. (Cl. 159—25.)



1. Apparatus for the evaporation of liquids, the drying of materials and the crystallisation of salts from their solutions, comprising a heat exchanging and supporting floor for the material, formed by a plurality of open topped straight sided troughs located side by side and in abutting relationship over which the material is adapted to be passed transversely; supplementary heat exchangers each taking the form of a tubular member extending longitudinally over its associated trough and in spaced relation thereto; and agitating and mixing members independent of the heat exchangers which serve to sweep over both the upper surface of the supporting floor and the external surfaces of the supplementary heat exchangers, and means to effect the relative movement of the agitating and mixing members.

1,919,401. FLUID PRESSURE BRAKE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Feb. 16, 1929, Serial No. 340,526. Renewed Aug. 12, 1932. 10 Claims. (Cl. 303—46.)

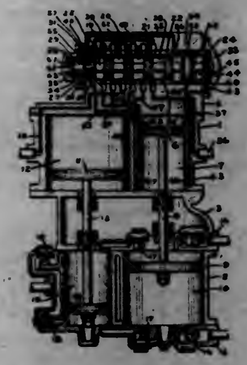


1. In a fluid pressure brake, the combination with a brake cylinder, of means operated in an emergency application of the brakes for supplying fluid under pressure to the brake cylinder and a valve device operated upon an increase in brake cylinder pressure for cutting off communication through which said means supplies fluid to the brake cylinder, the closing movement of said valve device being opposed by brake cylinder pressure.

1,919,402. STEAM DRIVEN FLUID COMPRESSOR. BENJAMIN H. THOMPSON, Ardara, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 22, 1930. Serial No. 454,555. 6 Claims. (Cl. 121—152.)

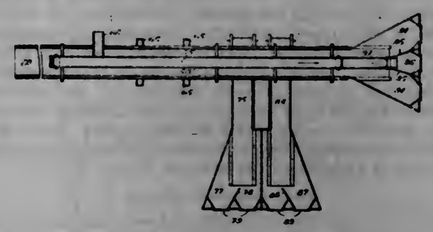
1. A fluid pressure actuated motor comprising a cylinder, a motor piston mounted in said cylinder, a reversing

valve comprising a plurality of connected abutments for controlling the supply and exhaust of fluid under pressure to and from said cylinder for operating said motor piston, a pair of connected pistons of different areas for moving said abutments, a passage for connecting one side of one of said differential area pistons to one side of said motor piston for initiating the reverse movement



of said valve, another passage adapted to connect the adjacent sides of said differential area pistons to said one side of said motor piston for completing the reverse movement of said valve, and a valve loosely connected to and operated by said differential area pistons for controlling communication from said cylinder to the opposite side of the other of said differential area pistons.

1,919,403. SORTING APPARATUS. WILLIS A. TRESCOTT, Fairport, N. Y., assignor to The Trescott Company, Inc., Fairport, N. Y., a Corporation of New York. Filed June 5, 1929. Serial No. 368,625. 4 Claims. (Cl. 209—71.)



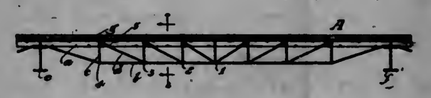
2. In a fruit sorting machine for the continuous progressive grading of fruit, the combination with a frame, a device for feeding bulk fruit to one end thereof, a distributing table at the other end having diverging partitions separating it into channels for selective distribution to receptacles and comprising a central channel and lateral channels, and a laterally arranged distributing table having a chute leading thereto from an intermediate portion of the machine, of a cull eliminator adjacent to the feeding device, a moving inspection table progressively adjacent to the latter, a grading apron progressively adjacent to said table and adapted to deliver into the lateral chute, a conveyor progressively adjacent to said apron and running to the lateral channels of the end table in the plane thereof, and a longitudinally extending conveyor above the instrumentalities aforesaid having a chute delivering into the central channel of the end distributing table, said last mentioned conveyor and the inspection table being jointly accessible to the same operator.

1,919,404. BRAKE VALVE DEVICE. UNCAS A. WHITAKER, Canton, Ohio, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Jan. 9, 1930. Serial No. 419,520. 9 Claims. (Cl. 303—60.)



5. In a fluid pressure brake, the combination with a brake pipe, of valve means operated by a variation in fluid pressure for effecting a sudden reduction in brake pipe pressure, a brake valve device having an emergency position in which fluid under pressure is varied on said valve means, and mechanical means actuated by said brake valve device upon movement to emergency position for also operating said valve means.

1,919,405. TRUSS. WILLIAM H. WILSON, Los Angeles, Calif. Filed Apr. 16, 1928. Serial No. 270,416. 1 Claim. (Cl. 189—37.)

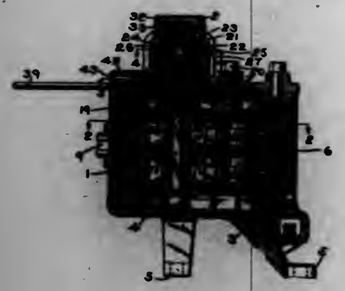


A steel joist, adapted to support a load uniformly distributed throughout its length, comprising a top and a bottom chord member and web members therebetween and intersecting the same and dividing the said top chord into panels; the number of panels and their lengths being symmetrical about the center line of the joist and the lengths of the panels being a minimum at the center and being increased in length progressively from the center to the ends of the joist, said increases in length being such that the compressive fibre stress, due to local bending in each top chord panel is increased, due to longer panel length, by substantially the same amount as the direct compressive fibre stress is reduced in said panel due to its distance from the center line of the joist, whereby the total combined compressive fibre stress in the top chord member is substantially uniform throughout the entire length of the joist.

1,919,406. COMBINED COCK AND SWITCH DEVICE. HARRY F. WOERNLEY, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Mar. 14, 1930. Serial No. 435,765. 7 Claims. (Cl. 200—53.)

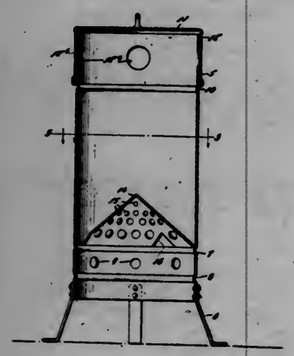
1. A combined cock and switch device comprising a cock portion and a switch portion, a rotatable valve included in said cock portion, a switch included in said switch portion, a shaft for operating said switch, a member through the medium of which said shaft and valve are simultaneously rotated, said valve and switch hav-

ing predetermined fixed positions with respect to each other, and a projection on said member adapted to be engaged by the cock portion to prevent the cock portion



from being operatively connected with the switch portion when said switch is not in its proper position in initially assembling the device.

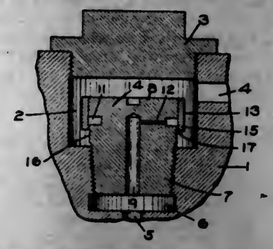
1,919,407. VEGETABLE AND ORCHARD HEATER. EDWARD B. WOOD, Lakeland, Fla., assignor of one-half to Fred W. Pope, Lakeland, Fla. Filed Dec. 3, 1929. Serial No. 411,309. 1 Claim. (Cl. 126—59.5.)



The herein described heater for burning charcoal, comprising a hollow upright body, and a grate therein supported only at its lower edge and extending throughout the transverse area of the hollow upright body, said body adapted at its upper portion for the passage of gases and open at its portion, below the grate, for the passage of air; said grate being in the form of a thin wall which interiorly and exteriorly describes an upwardly extending cone, and being provided in its edge with spaced, comparatively large openings which extend inwardly from said edge, and being also provided throughout the remainder of its area with outer apertures smaller than said edge openings and inner apertures smaller than said outer apertures.

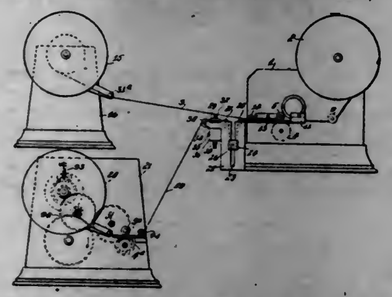
1,919,408. CHOKE PLUG. EDGAR A. WORK, Wilmerding, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 20, 1931. Serial No. 570,027. 5 Claims. (Cl 137—75.)

1. A vent device comprising a cylindrical plug member having a fluid limiting vent therethrough opening into a passage on the periphery of the member, and a cover for the passage having a portion spaced from the member



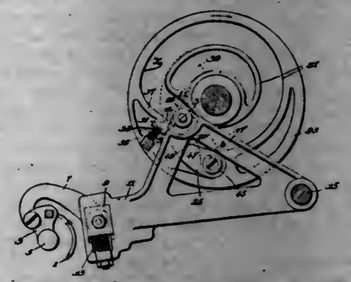
and defining a relatively long and narrow inlet passage communicating with the said passage for arresting foreign particles in the fluid entering the inlet passage.

1,919,409. SIGNAL CONTROL APPARATUS. MERTON C. ARMSTRONG, Rochester, N. Y., assignor to The Sterling Siren Fire Alarm Company Inc., Rochester, N. Y., a Corporation of New York. Filed Apr. 24, 1928. Serial No. 272,520. 3 Claims. (Cl. 177—354.)



1. In combination, a punch tape register including a punching element, a plurality of tapes, means for simultaneously feeding the tapes through the register in superimposed relation, an independent motor driven take-up for each of said tapes, means for regulating the speed of one of the take-ups so that the feed of its tape is retarded after passing said feeding means, electric circuit controlling contacts normally held open by the retarded tape and adapted to contact one with another through the successive perforations in the retarded tape and means intermediate said contacts and said feeding means for taking up slack in the retarded tape.

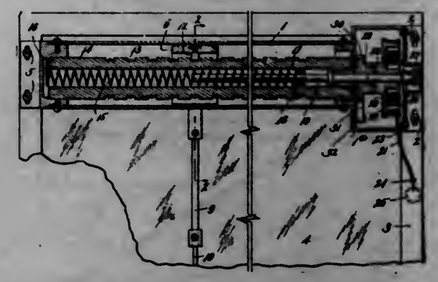
1,919,410. SEWING MACHINE. ARTHUR BATES, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 27, 1931, Serial No. 533,096, and in Great Britain May 6, 1930. 7 Claims. (Cl. 112—221.)



1. A hooked needle sewing machine having needle actuating means including a member the effective shape

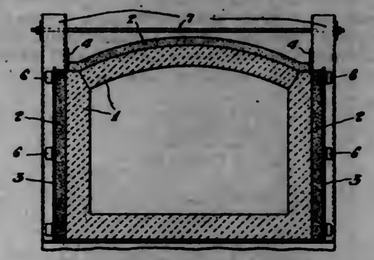
of which is adapted to be varied automatically on a change in the speed of the machine to impart to the needle a different movement from that which it would otherwise have.

1,919,411. WIPER MECHANISM FOR WINDSHIELDS AND THE LIKE. JOSEPH BORNSTEIN, Boston, Mass., assignor to Louis Bornstein, Quincy, Mass. Filed Aug. 13, 1930. Serial No. 475,108. 5 Claims. (Cl. 15—253.)



1. A wiper mechanism having, in combination, a housing-frame, a wiper carriage; a worm shaft within said housing-frame for reciprocating said carriage on a rectilinear path; a coiled spring within said housing-frame; means connecting one end of said spring with said worm shaft; a rotatably supported sheave within said housing-frame; means connecting the opposite end of said coiled spring with said sheave through which rotation of the latter in one direction only winds up said coiled spring; a manually operated pull-cable having one end thereof connected with said sheave and its opposite end portion outside of said housing-frame; a spring within said housing-frame for rotating said sheave in a direction to wind said cable thereon, and a detent device for holding the last mentioned end of said coiled spring against unwinding.

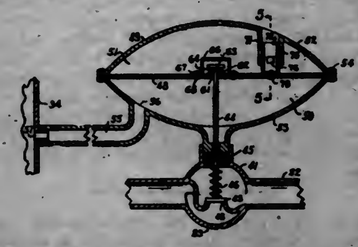
1,919,412. FURNACE. EDWARD A. BROWN, Jr., Pittsburgh, and WILLIAM S. UNGER, Munhall, Pa. Filed Sept. 7, 1932. Serial No. 632,060. 6 Claims. (Cl. 263—10.)



1. The combination of a furnace, a fluent refractory, and means for retaining said refractory on the exterior surface of said furnace.

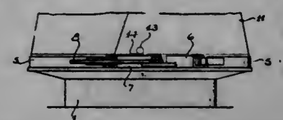
1,919,413. AUTOMATIC VALVE. EVERETT S. BUCK, Cincinnati, Ohio, assignor, by mesne assignments, to The Edwards Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 20, 1928, Serial No. 300,895. Renewed May 7, 1930. 6 Claims. (Cl. 137—153.)

6. In an automatic valve, the combination of a feed passage and a pressure passage, said passages being continuously separated, of a valve member in said feed passage, means movable in opposite directions and responsive to pressure in said pressure passage for controlling said valve member, resisting means for said pressure responsive means having a relief means including a control operatively connected to and movable in opposite directions



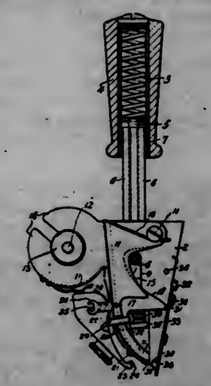
with said pressure responsive means, said pressure responsive means being constructed and arranged for maintaining said valve in open position in response to predetermined pressure in said pressure passage, and means for normally closing said valve member.

1,919,414. FRUIT PACKER. RAYMOND P. CLARK, Rochester, N. Y., assignor to Clark Stek-O Corporation, Rochester, N. Y., a Corporation of New York. Filed Jan. 17, 1931. Serial No. 509,440. 5 Claims. (Cl. 226—17.)



1. In a packer, the combination with a facing member, of an initially split liner having overlapping ends and arranged on the facing member, and means exteriorly of the liner for releasably holding said liner to the facing member.

1,919,415. MACHINE FOR AFFIXING STAMPS, LABELS, AND THE LIKE. ALEXANDER GORDON COGSWELL, Chipping Sodbury, England. Filed Oct. 21, 1931, Serial No. 570,212, and in Great Britain Dec. 9, 1930. 17 Claims. (Cl. 216—33.)



1. In a machine for affixing stamps drawn in perforated strip form from a roll, the combination of a frame member, a roll holder, a member for holding the end stamp, a guide member which is pivotally mounted on the frame member and over which the strip is led from the roll into position for the end stamp to be engaged

and held by the holding member, a pivotally mounted gripper which is adapted to cooperate with the guide member positively to hold the second stamp, a device adapted to press on to the strip at a zone adjacent the line of perforations between the end and second stamp, an operating member which when operated causes the guide member to rock about its pivot while the end stamp is held whereby an excess length of strip is drawn from the roll, and then causes the gripper to move into gripping position before the movement of the guide member ceases and the pressing device to become operative whereby the end stamp is severed and pressed on to the article to be stamped and a registering device for registering the fresh end stamp when the parts return to their original position.

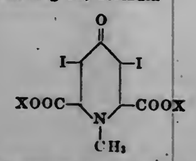
1,919,416. EVACUATION OF CONDENSATE. HERVEY G. CRAIN, Bucksport, Maine, assignor to Maine Seaboard Paper Company, Bucksport, Maine, a Corporation of Maine. Filed Sept. 25, 1931. Serial No. 565,032. 6 Claims. (Cl. 34—4.)



2. In combination with a rotating steam-heated cylinder, means for evacuating condensate therefrom comprising a relatively stationary eduction pipe having an end closely opposed to the cylinder wall adjacent the bottom thereof and cut away at one side to provide a shallow recess.

1,919,417. CHELIDAMIC ACID COMPOUND. MAX DOHRN, Berlin-Charlottenburg, and PAUL DIEDRICH, Finkenkrug near Spandau, Germany, assignors to Schering-Kahlbaum A. G., Berlin, Germany. Filed June 17, 1931, Serial No. 545,074, and in Germany Dec. 18, 1930. 3 Claims. (Cl. 260—42.)

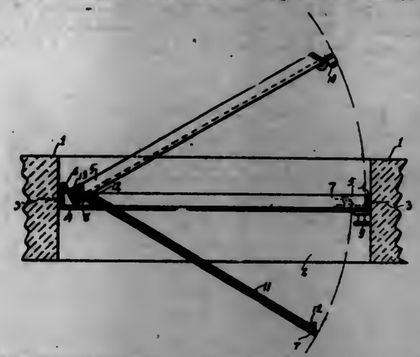
1. Compounds having the formula



wherein X is hydrogen or an alkali metal, the compound, if X is hydrogen, being a well crystallizing colorless water-soluble acid melting at 174° C. under formation of carbon dioxide, forming with an alkali a readily water-soluble salt, but not showing the reaction with ferric chloride peculiar to the pyridones.

1,919,418. WINDOW. JAMES G. DUDLEY, New York, N. Y. Filed Sept. 27, 1930. Serial No. 484,734. 2 Claims. (Cl. 189—69.)

1. A ventilating window, comprising an angular frame having one leg thereof anchored to the wall opening and a second leg normal to the plane of the wall opening forming a weather tight seating for an angular ventilating frame with one leg seating on the free leg of the wall frame and one leg bent away from the planes of the wall opening, hinging means anchored to the wall frame and to the ventilating frame permitting the swinging of the ventilating frame relative to the wall frame, an angular glass carrying frame having one leg bent away from the planes of the wall opening to an identical angle with the bent leg of the ventilating frame thereby forming a weather tight seating for the glass carrying frame with its second leg disposed in the same plane as that of the unbent leg of the ventilating frame, hinged means anchored to the ventilating frame and to the glass carrying frame permitting the swinging of the glass carrying frame relative to the ventilating frame, means for latching the ventilating frame to the wall frame, and means for latching the glass carrying frame to the ventilating frame.

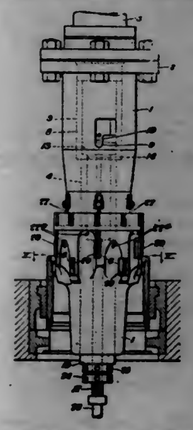


1,919,419. DOOR. JAMES G. DUDLEY, New York, N. Y. Filed Oct. 2, 1930. Serial No. 485,853. 3 Claims. (Cl. 189—46.)



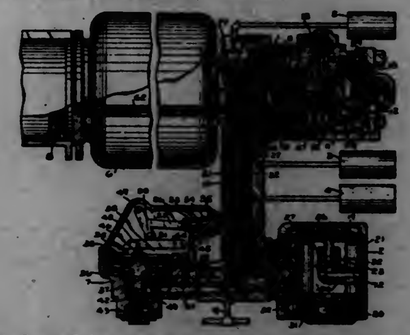
2. A hollow metallic door comprising two sheet metal face panels, a metallic frame anchored to one face of each panel adjacent its peripheral edges and normal thereto, and means for uniting the said carrying frames at their free edges.

1,919,420. CUTTING TOOL. WILLIAM E. EDWARDS, Pittsburgh, Pa., assignor to National Tube Company, a Corporation of New Jersey. Filed June 2, 1932. Serial No. 615,001. 4 Claims. (Cl. 10—145.)



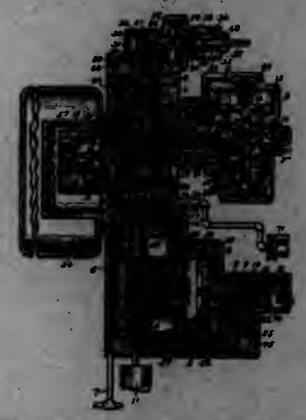
1. A tool including a vertical elongated body having a longitudinal bore and radial slots opening thereinto, cutting segments radially movably arranged in said slots, a sleeve arranged in the upper part of said bore for limited vertical and turning movement, means for holding said sleeve against turning movement when at its lower position, a plunger fitting said sleeve, means for preventing said plunger dropping from said sleeve, a rod depending from said plunger, a cam on said rod constructed with surfaces which contact and radially move said segments when moved longitudinally and with recesses which receive these segments when turned, and means for preventing respective rotation of said cam and said sleeve and for raising the latter when said plunger is moved upwardly.

1,919,421. SNAP-ACTING VALVE DEVICE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 8, 1931. Serial No. 567,599. 9 Claims. (Cl. 303—41.)



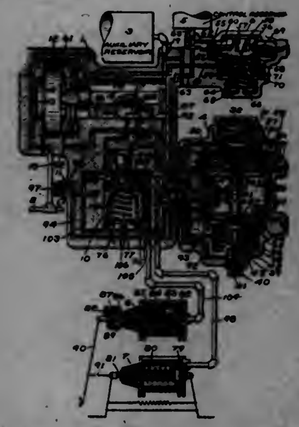
1. In a fluid pressure brake, the combination with a brake pipe, of a brake controlling valve device subject to the opposing pressures of the brake pipe and a chamber, a normally charged reservoir, a valve mechanism operated upon a predetermined reduction in brake pipe pressure for supplying fluid under pressure from said reservoir to said chamber, and means for accelerating the action of said valve mechanism.

1,919,422. FLUID PRESSURE BRAKE. CLYDE C. FARMER, Pittsburgh, and ELLIS E. HEWITT, Edgewood, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 15, 1931. Serial No. 568,901. 1 Claim. (Cl. 303—23.)



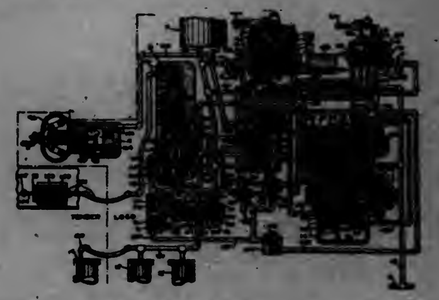
In a fluid pressure brake, the combination with a brake pipe, brake cylinder, and a brake controlling valve device operated upon a reduction in brake pipe pressure for supplying fluid under pressure to the brake cylinder, of valve means for controlling communication through which said brake controlling valve device supplies fluid under pressure to the brake cylinder and operative to vary the rate at which fluid is supplied to the brake cylinder comprising a valve and a movable abutment operated by a variation in fluid pressure for operating said valve, a valve for varying the fluid pressure on said abutment, and manually operated means for operating said last mentioned valve.

1,919,423. FLUID PRESSURE BRAKE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 16, 1931. Serial No. 569,163. 17 Claims. (Cl. 303—64.)



1. In a fluid pressure brake, the combination with a normally charged reservoir and a brake cylinder adapted to be supplied with fluid under pressure from said reservoir to effect an application of the brakes, of a normally charged control reservoir, valve mechanism subject to the pressure of fluid from said control reservoir for controlling the pressure of fluid in the brake cylinder, and means normally establishing communication through which fluid under pressure is adapted to be supplied to and released from said control reservoir, said means being operable to close said communication upon the effecting of an application of the brakes.

1,919,424. FLUID PRESSURE BRAKE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 22, 1931. Serial No. 570,287. 26 Claims. (Cl. 303—21.)



1. The combination in a train of at least two vehicles, of a brake equipment on one of said vehicles, means included in said equipment operative according to the speed

of the train and according to a relative movement between said vehicles to effect a regulated application of the brakes on the vehicle, and means for controlling the operation of the first mentioned means.

1,919,425. PROCESS FOR DISSOLVING TITANIFEROUS MATERIALS IN ACIDS. PEDER FARUP, Vettakollen, Vestre Aker, Norway, assignor to Titan Co. A/S, Fredrikstad, Norway. Filed Apr. 21, 1927, Serial No. 185,657, and in Norway Aug. 3, 1926. 8 Claims. (Cl. 23—117.)

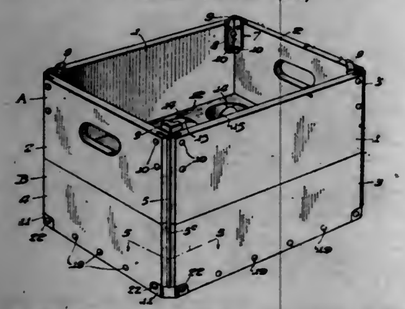
1. The process of bringing titaniferous material into solution directly from its ore, while avoiding or minimising precipitation and maintaining a sufficiently fluid solution, comprising adding sulphuric acid to the ore and gradually diluting the solution with an acid solution during the dissolution process.

1,919,426. BEDSTEAD PROTECTOR. MINNA FETT NÉE HAMDORF, Hamburg, Germany. Filed Nov. 29, 1930, Serial No. 499,061, and in Germany Apr. 24, 1930. 1 Claim. (Cl. 5—317.)



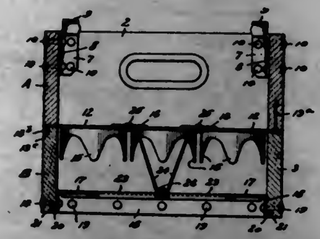
A device for protecting the foot wall of a bedstead, comprising a protecting curtain adapted to extend in front of and parallel to the foot wall and a support for each end of said curtain, each support comprising a sectional upright, means in the upright by which the upper section of the upright may be folded from a vertical to a horizontal position, means by which the end of the curtain is attached to the upper section, a foot extending horizontally from the lower end of the lower section of the upright, a U-shaped clamp adapted to engage the spring frame of the bedstead with the arms parallel to the spring frame and extending above and below the frame respectively and longitudinally thereof and means by which said foot is mounted to be parallel with and adjustably slide along the upper arm of the U-shaped clamp.

1,919,427. BOX OR CRATE. AMOS L. FOREMAN, Detroit, Mich., assignor to Forward Crate Corporation, a Corporation of Michigan. Filed July 6, 1931. Serial No. 459,023. 11 Claims. (Cl. 217—66.)



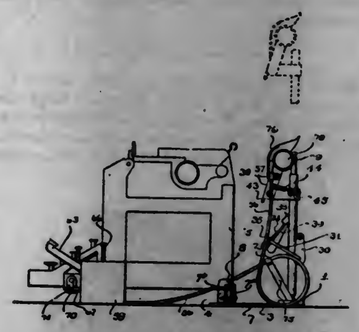
1. A box or crate, comprising walls joined by metal corner pieces, said corner pieces being angular in cross section and having the edges thereof extending into kerfs in the ends of said walls, said edges being provided with longitudinal corrugations.

1,919,428. BOTTLE CRATE. AMOS L. FOREMAN, Detroit, Mich., assignor to Forward Crate Corporation, Detroit, Mich., a Corporation of Michigan. Original application filed July 6, 1931, Serial No. 549,023. Divided and this application filed July 6, 1932. Serial No. 621,103. 7 Claims. (Cl. 217—19.)



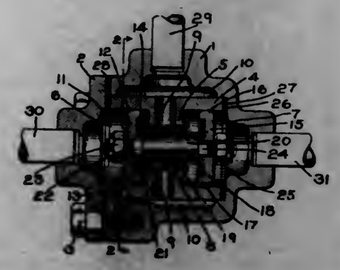
1. A bottle crate, including a sheet metal separator, said separator being provided with a plurality of openings, one opening at least being partially surrounded with a channel like formation, said channel formation being provided with depending opposed resilient tab like projections, the end portions of at least two opposed projections being so spaced from each other as to admit of the insertion of a bottle therebetween.

1,919,429. COPY HOLDER. CLAIR C. HARPER, Rochester, and EUGENE F. KITENDAUGH, Oneida, N. Y., assignors to Error No Inc., Little Falls, N. Y., a Corporation of New York. Filed July 10, 1931. Serial No. 550,012. 13 Claims. (Cl. 120—30.)



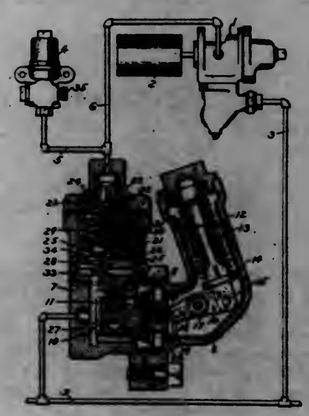
1. The combination with a sheet supporting member having an upper edge over which a sheet is arranged to be thrown, work clamping means for holding the sheet in a suspended condition on the sheet supporting member, and a feeding mechanism engaging with the suspended sheet adjacent the upper edge of the sheet supporting member to draw said sheet upwardly, said feeding mechanism embodying a movable sheet engaging roller in front of the sheet supporting member, and a pivoted support for said roller, the pivot of the support being below the axis of the turning of the roller and also in front of the vertical plane of said axis, so that the roller may be swung away from the sheet holding member to permit the work to be inserted in place by a downward movement along an unobstructed path and thereby secured by the clamp.

1,919,430. DOUBLE CHECK VALVE DEVICE. ELLIS E. HEWITT, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Aug. 18, 1929. Serial No. 385,528. 4 Claims. (Cl. 277—20.)



1. A double check valve device for controlling communication through a plurality of pipes, said check valve device comprising a casing having a body portion open at one side, a cover plate to close the opening in said body portion, a valve cage having a sliding fit in said casing, means for effecting a leak-proof seal between one end of said cage and the body portion and the other end of said cage and said cover plate, and valves operatively connected within said cage, said valves being insertable into or removable from said body portion only with said cage when said cover plate is removed.

1,919,431. CONTROL VALVE FOR RETAINING VALVES. ELLIS E. HEWITT, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 27, 1930. Serial No. 491,834. 4 Claims. (Cl. 303—77.)



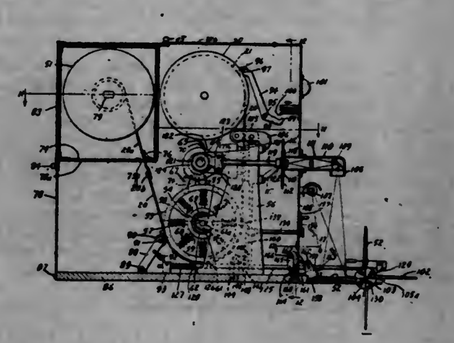
1. In a fluid pressure brake, the combination with a brake cylinder, brake pipe, and a triple valve device, of valve means for controlling communication from the brake cylinder exhaust port of the triple valve device to an atmospheric exhaust port and having a limited area normally exposed to fluid pressure and operated by fluid pressure supplied to the unexposed area for closing said communication, and a valve device operated by an increase in brake pipe pressure above a predetermined degree for supplying fluid under pressure to the normally unexposed area of said valve means.

1,919,432. HOUSING OF ELECTRICAL SWITCHES OR DISTRIBUTION BOXES. LUDWIG HOLM, Stuttgart, Germany, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Filed June 13, 1930, Serial No. 460,964, and in Germany June 17, 1929. 3 Claims. (Cl. 220—60.)



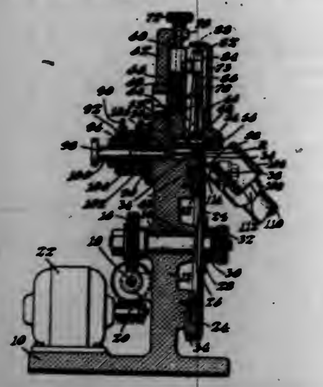
1. A housing comprising a casing having at least two slots in the side thereof, a cover for said casing having at least two corresponding slots in the wall thereof and having openings in said wall extending from the slots to the edge of the wall and widening towards the edge and a part circular spring within said casing having outwardly curved portions extending through the slots in the casing and adapted to engage the slots in the cover to hold the cover in position on the casing, the inclined edges of said openings being spaced apart sufficiently to embrace said curved portions and being adapted to serve as guides for said cover and as cam elements for pressing inwardly said curved portions as said cover is forced axially onto said casing.

1,919,433. PHOTOGRAPHIC COPYING APPARATUS. LE ROI E. HUTCHINGS, Buffalo, N. Y., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 17, 1926. Serial No. 102,655. 18 Claims. (Cl. 88—24.)



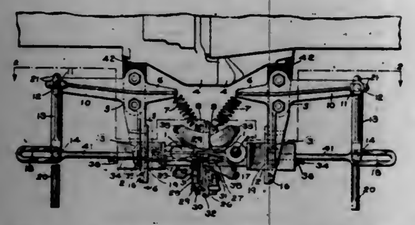
1. In an apparatus for preparing photographic file cards, a plurality of winding reels, a driving wheel between said reels, driving means adapted to cause the intermittent rotation of said wheel, said driving means including a resiliently projected means to engage and operate said driving wheel in order to insure a smooth acceleration of said wheel as it starts its rotation, and means for photographing an object onto the strip during a dwell in the intermittent motion thereof.

1,919,434. GAUGING MACHINE. PHILIP H. HUTCHINSON, Montclair, N. J., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Sept. 5, 1928. Serial No. 304,013. 11 Claims. (Cl. 209—90.)



1. In a gauging machine, an arcuate gauge plate, a gauge beyond the periphery of said gauge plate, a disc having a flange outside the periphery of the gauge plate, the disc and flange having article receiving openings, and means for rotating the disc; substantially as described.

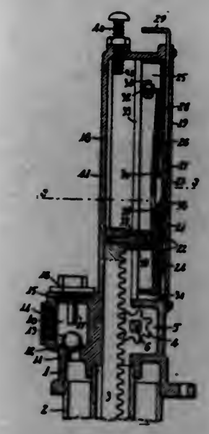
1,919,435. TRAIN PIPE COUPLING. ANTON K. KUSEBAUCH, Bellevue, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Sept. 11, 1931. Serial No. 562,296. 4 Claims. (Cl. 285—58.)



1. The combination with a car coupler and a train pipe coupling having a head portion and a shank portion, of means for wholly supporting said train pipe coupling from said car coupler comprising a bracket carried by said car coupler, an element secured to said bracket and provided with rearwardly and forwardly extending portions, springs connected to the forwardly extending portion and secured to said head portion, an arm pivotally mounted on said rearwardly extending portion, and movable only in a direction parallel to the longitudinal axis of the car coupler, and a member secured to said shank portion and supported by said arm.

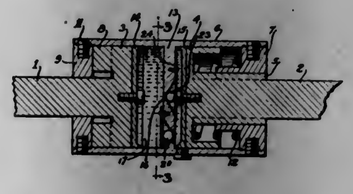
1,919,436. INDICATOR. JESSE D. LANGDON, Los Angeles, Calif., assignor to Langdon Engineering Corporation, Los Angeles, Calif., a Corporation of California. Filed Aug. 7, 1929. Serial No. 384,089. 3 Claims. (Cl. 235—94.)

1. An indicator comprising an elongated case, a longitudinal guide member therein having a vertical flange, an indicating slide slidable longitudinally in the case and guided by said member and bearing against one side of said flange, a second slide slidable longitudinally in the case and guided by said member and bearing against the other side of said flange, the indicating slide having ratchet teeth, said flange having a cutaway portion intermediate the ends thereof, the second slide having a spring pawl to engage said teeth through said cut-away portion of said flange for advancing the indicating slide step by step by the reciprocation of the second slide, and an actuating member entering the case and slidable longitudinally therein, the actuating member and second slide having



cooperable portions adapted to contact at the limits of movement of the actuating member to reciprocate the second slide, said guide member having a catch formed with one edge of the cutway portion of the flange thereof to engage said ratchet teeth for holding the indicating slide in its advanced position during the return movement of the second slide and its pawl.

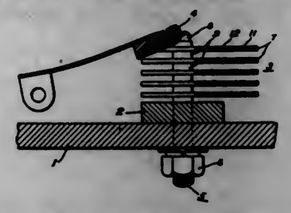
1,919,437. SHAFT COUPLING. EDWIN K. LE FEVRE, Edgemoor, Md., assignor to Whitfield Engineering Company, D. C., a Corporation of Delaware. Filed June 28, 1932. Serial No. 619,782. 11 Claims. (Cl. 192—56.)



11. Shaft coupling comprising driving and driven shafts, an axially slidable coupling element forming an extension of one shaft, said slidable coupling element and the other shaft having inter-engaging over-load released elements, and fluid pressure means for inhibiting any torque-induced releasing movement of said inter-engaging elements until the over-load value has been attained.

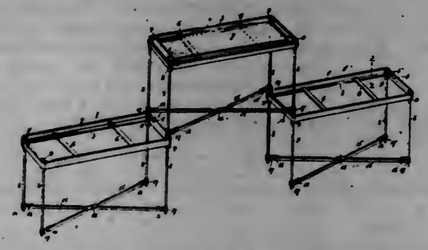
1,919,438. PLATE FOR CIRCUIT BREAKERS. TURE LINDSTROM, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 20, 1929. Serial No. 387,159. 7 Claims. (Cl. 200—144.)

1. In an arc extinguishing device, a plurality of sheets of non-magnetic conducting material having open spaces therebetween, and a plurality of sheets of magnetic material each having an end portion and a pair of leg portions, said sheets of magnetic material having open spaces therebetween and being positioned in planes substantially



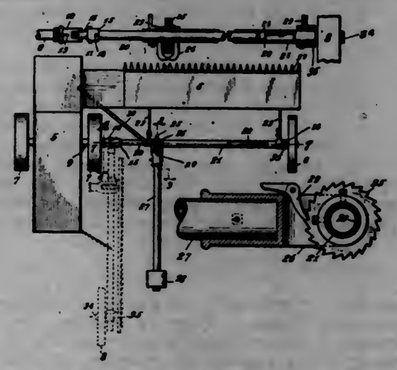
parallel to said sheets of non-magnetic material with said leg portions extending along the sides of said sheets of non-magnetic material for moving the arc thereinto.

1,919,439. DISPLAY STAND. CHARLES E. LITTLE, Melrose, Mass., assignor to Dover Stamping & Manufacturing Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Feb. 24, 1932. Serial No. 594,866. 5 Claims. (Cl. 211—85.)



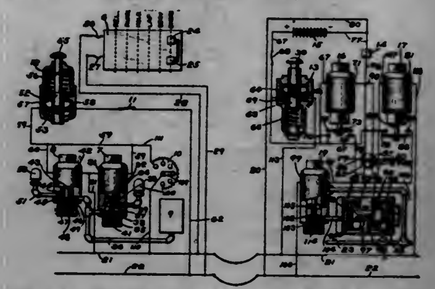
1. A display stand comprising a body having a frame of angle iron with one part section arranged vertically and the other part section arranged horizontally with extension inwardly from the lower end of the vertical section, said horizontally arranged section having a plurality of openings, a post secured in each of said openings, and legs detachably secured to said posts.

1,919,440. COMBINATION HARVESTER-THRESHER. WALLACE F. MACGREGOR and NORMAN R. KRAUSE, Racine, Wis., assignors to J. I. Case Company, Racine, Wis., a Corporation. Filed Mar. 21, 1925, Serial No. 17,380. Renewed Dec. 17, 1932. 19 Claims. (Cl. 56—20.)



1. In a combination harvester-thresher, an axle supporting said harvester and connected to said thresher, means in said axle whereby said harvester may be swung alongside said thresher, and mechanism associated with said axle between its outer end and its connection with a thresher for transporting said harvester from horizontal to vertical position to lie in close proximity to said thresher.

1,919,441. ELECTRIC SIGNAL SYSTEM. JOSEPH C. MCCUNE, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed June 4, 1929. Serial No. 368,219. 4 Claims. (Cl. 177—352.)

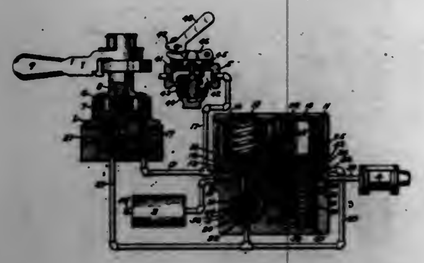


1. A signal system for a train comprising a locomotive and a plurality of cars, said signal system comprising a normally closed train circuit including a source of current and train wires connected in series with said source of current and also comprising a normally open circuit on each car including said source of current, a signal indicating device and a switch contact member operative to one position to close the car circuit through said source of current and said signal indicating device and operative to another position to open the car circuit, means responsive to the normal flow of current through the normally closed circuit for maintaining said switch contact member in circuit open position and operative to close the normally open circuit either upon a decrease in the flow of current through the normally closed circuit or upon the opening of the closed circuit, a signal indicating device on the locomotive, means responsive to the flow of current through said normally closed circuit for maintaining the locomotive signal indicating device inoperative and operative upon the opening of said normally closed circuit to effect the operation of said locomotive signal indicating device to indicate a signal, another locomotive signal indicating device, means normally maintaining said other locomotive signal indicating device inoperative to effect a signal and responsive to an increase in the flow of current in the normally closed circuit over that normally flowing in the circuit for effecting the operation of said other locomotive signal indicating device to indicate a signal, a switch device on each car operative to short circuit the source of current around the local car signal controlling means for increasing the current flow through the closed circuit for causing said other locomotive signal controlling means to operate to effect the operation of the second mentioned locomtive signal device to indicate a signal and for decreasing the flow of current through the local car switch controlling means to cause the means to operate to move the local switch contact member to close the local car circuit through said source of current and local car signal indicating device, and a switch on the locomotive operative to open and close said normally closed circuit.

1,919,442. FLUID PRESSURE BRAKE. JOSEPH C. MC CUNE, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Jan. 2, 1930. Serial No. 417,874. 10 Claims. (Cl. 303—63.)

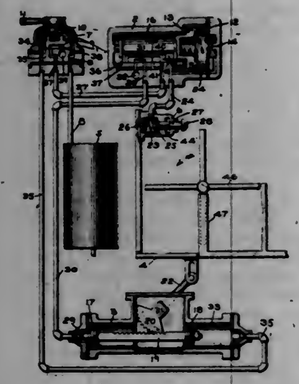
7. In a fluid pressure brake equipment, the combination with a main reservoir and a brake cylinder, of valve

means in initially charging the equipment establishing communication from the main reservoir to the brake cylinder to apply the brakes, and means operative upon a



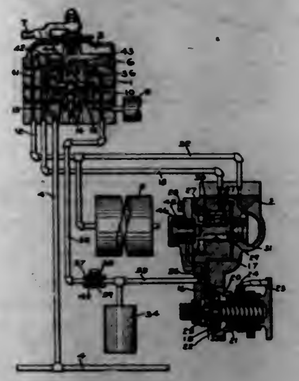
predetermined increase in pressure in the main reservoir for effecting the operation of said valve means to cut off said communication.

1,919,443. DOOR CONTROL EQUIPMENT. JOSEPH C. MCCUNE, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Apr. 21, 1930. Serial No. 445,858. 5 Claims. (Cl. 268—50.)



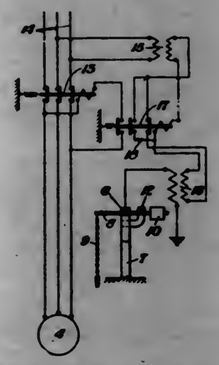
1. In a door controlling equipment for a vehicle, the combination with a door for the vehicle, of a fluid pressure controlled door engine for controlling the operation of said door, a door opening pipe connected to said door engine, a door closing pipe connected to said door engine, a manually operative valve device having a door closing position in which fluid under pressure is admitted to the door closing pipe and having a door opening position in which the door closing pipe is vented, a fluid pressure controlled valve device comprising a valve having a door closing position in which the door opening pipe is vented, said manually operative valve device and valve in door opening position establishing communication through which fluid under pressure is admitted to the door opening pipe, a piston for operating said valve subject on both sides to fluid under pressure supplied through said manually controlled valve device when said valve device is operated to door opening position and a passenger's valve device operative to vent fluid under pressure from one side of said piston to effect the movement of said valve to door opening position.

1,919,444. FLUID PRESSURE BRAKE. JOSEPH C. MCCUNE, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 22, 1931. Serial No. 570,285. 9 Claims. (Cl. 303—59.)



1. In a fluid pressure brake, the combination with a brake pipe, of a feed valve device operated by variations in brake pipe pressure for controlling the supply of fluid under pressure to the brake pipe, means for delaying the operation of said feed valve device, and a brake valve device for rendering said delay means effective.

1,919,445. SAFETY APPARATUS. OWEN A. MCNAMEE, Worcester, Mass. Filed Sept. 28, 1931. Serial No. 565,689. 4 Claims. (Cl. 192—129.)

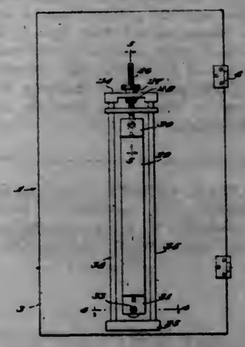


1. A safety device for motor driven rolls comprising an overhead support extending along the rolls, levers pivotally carried by said support, depending electric conductors carried by said levers, counterweights on said levers for balancing said conductors and means for charging said conductors with grounded high tension electricity, said charging means delivering an electrical shock to a person in contact therewith, and simultaneously stopping said motor driven rolls.

1,919,446. CONTROL APPARATUS. BERTRAM M. MILLS and GEORGE K. CROSSLEY, Pawtucket, R. I., assignors to The Standard Engineering Works, Pawtucket, R. I., a Corporation. Filed July 31, 1928. Serial No. 296,608. 7 Claims. (Cl. 206—52.)

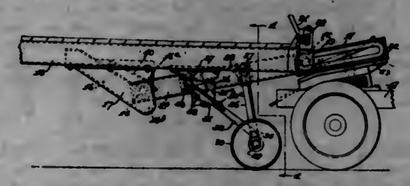
1. Apparatus of the class described comprising a housing having an opening in its wall, a lever within the

housing, said lever having a substantially vertical arm and a substantially horizontal arm, a moisture responsive element outside of the housing, means passing through the opening in the housing and connecting the moisture responsive element to the horizontal arm of the lever,



means tending to move said latter arm in such a direction as to take up slack in the moisture responsive element, a relay device in the housing, and means carried by the vertical arm of the lever for actuating the relay device.

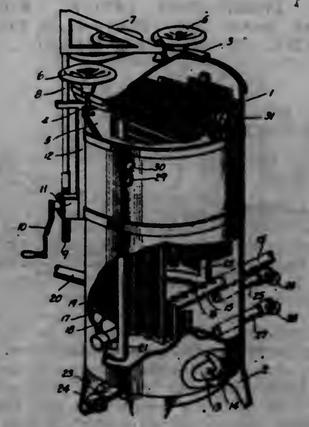
1,919,447. SEMITRAILER AND AUXILIARY SUPPORT. ANTHONY W. MOLINARE, Oak Park, Ill., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Filed Aug. 5, 1931, Serial No. 555,200. Renewed Feb. 29, 1932. 31 Claims. (Cl. 280—33.1.)



31. In a semi-trailer including a main frame, an auxiliary frame telescopically associated with said main frame, and means on the auxiliary frame for coupling the trailer to a tractor, said auxiliary frame being adapted for bodily forwardly extensible movement relative to and partially beyond the front end of the main frame during uncoupling of the tractor and trailer; temporary supporting means bodily carried on and movable relative to the auxiliary frame, and means associated with the temporary supporting means and responsive to the extensible relative movement of the auxiliary frame and main frame incident to uncoupling of the tractor and trailer for positively shifting the supporting means forwardly relative to the auxiliary frame to assume a position adjacent the forward end of the trailer.

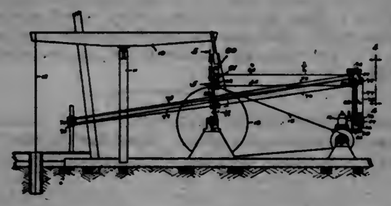
1,919,448. FILTER. VICTOR C. NORQUIST and EARL E. TREANOR, Kansas City, Mo., assignors to Butler Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Feb. 15, 1930. Serial No. 428,575. 2 Claims. (Cl. 210—181.)

1. A filter comprising in combination, a container, a removable, pressure-tight head, a plurality of spaced filter screens disposed within said container, comprising triple ply screen leaves, the central screen being coarse in texture and adapted to support finer mesh outer screens, said screens being made of Monel metal or similar non-corrosive metal, frames supporting said filter screens, fittings adapted to permit the passage of liquid therethrough secured to said frames, and communicating with the inter-screen area, an outlet manifold positioned substantially diametrically across within and at the lower end of said container adapted to support said screens and provided with seats for said fittings, an inlet



pipe for the fluid to be filtered, a standpipe positioned within said container and communicating with said inlet pipe, said standpipe having an outlet in the upper portion of said container, whereby the flow of liquid is downwardly whereby agitation of the sediment is precluded and an even distribution of a filter aid is effected.

1,919,449. GOVERNOR. GEORGE ORTZEL, Oakland, Calif., assignor to Fairbanks, Morse & Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 31, 1930. Serial No. 425,034. 18 Claims. (Cl. 264—4.)



1. In combination with an engine and apparatus driven thereby, a speed-varying mechanism comprising a governor including a governor spring, and means, operated by the driven apparatus, for periodically varying the loading of said governor spring.

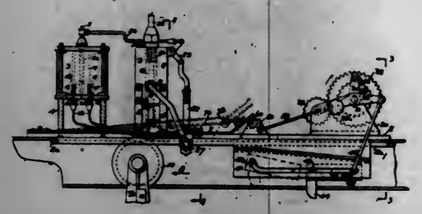
1,919,450. POMPON AND METHOD OF MAKING THE SAME. HERMAN H. RUBIN, New York, N. Y. Filed Nov. 23, 1928. Serial No. 321,409. 14 Claims. (Cl. 41—10.)



1. The method of making pompons which includes arranging a plurality of strands in parallel relation, securing said strands together by spaced transversely ex-

tending rows of stitching, cutting the strands adjacent to predetermined rows of stitchings, arranging said cut strands in layers, binding said layers together between spaced rows of stitchings, and then removing the stitchings.

1,919,451. LUBRICATING DEVICE. WILLIAM K. SCHAEFER, Detroit, Mich. Filed July 18, 1931. Serial No. 551,781. 12 Claims. (Cl. 184—3.)

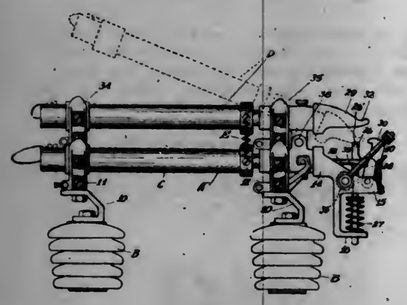


1. A lubricating device consisting of an oil container having an apertured base, a plate rotatable on said base adapted to open and close the apertures in the latter, a rotatable spindle extending from said plate and through the end of the container remote from said base, an air valve, nozzles, outlet pipes connecting the base apertures with said nozzles, and other outlet pipes extending from the valve to said nozzles, in combination with trips adapted to be actuated by contact with passing trucks, and means for releasing air from said air valve and for rotating said spindle when the trips are actuated.

1,919,452. RUBBER COMPOSITION AND METHOD OF PRESERVING RUBBER. WALDO L. SEMON, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Sept. 23, 1931. Serial No. 564,723. 14 Claims. (Cl. 18—50.)

1. The method of preserving rubber which comprises treating rubber with an aryl naphthylamine having at least one hydroxyl group, substituted on an aromatic nucleus.

1,919,453. AUTOMATIC REFUSING UNIT. JOHN E. SUMPTER, Minneapolis, Minn. Filed Jan. 9, 1929. Serial No. 331,170. 5 Claims. (Cl. 200—126.)

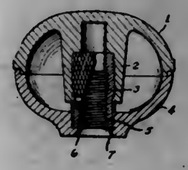


1. An automatic expulsion refusing unit including, an expulsion fuse, means for mounting said fuse to connect the same in an electric circuit, a second fuse, and hinge means for holding said second fuse out of operation, said holding means being operable by the burning out of said first fuse to automatically cause said second fuse to move into operative position.

1,919,454. ADHESIVE. WILLIS C. WARE, Chicago, Ill., assignor of one-half to Edward B. Sickle, Chicago, Ill. Filed Apr. 22, 1931. Serial No. 532,112. 10 Claims. (Cl. 106—31.)

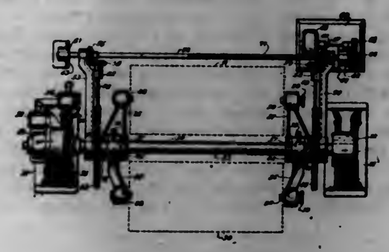
5. A permanently plastic adhesive adapted to secure structural elements to walls and ceilings and consisting of rosin plasticized with no greater than an equal amount of petrolatum, a binder mixed with, and in less amount than, the plasticised rosin, and an admixture of a volatile substance adapted to render the adhesive workable for application purposes without changing it chemically and, upon evaporation thereof, to leave the adhesive in a thicker plastic condition.

1,919,455. HANDLE CONSTRUCTION. GARDINER C. WILSON, Lockport, N. Y., assignor to Norton Laboratories, Inc., Lockport, N. Y., a Corporation of Maine. Filed Sept. 14, 1928. Serial No. 305,881. 3 Claims. (Cl. 18—59.)



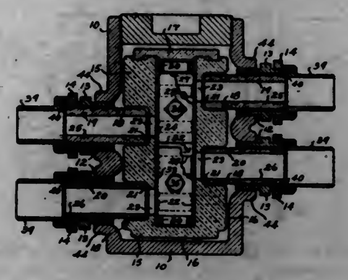
3. A hollow article comprising a male section having an extension inwardly from the surface of the article and a female section of synthetic resin plastic which shrinks excessively on initial cooling having a complementary recess in which said extension is received, said female member being molded so that when it is cooled, the interior dimensions of its recess would be slightly less than the corresponding dimensions of the male extension, and the two being gripped together by the initial shrinkage of the female section onto the male section.

1,919,456. ROLL STAND FOR PRINTING PRESSES. OTTO R. WOLF, River Forest, Ill., assignor to The Tribune Company, Chicago, Ill., a Corporation of Illinois. Filed July 8, 1929. Serial No. 376,569. 2 Claims. (Cl. 242—64.)



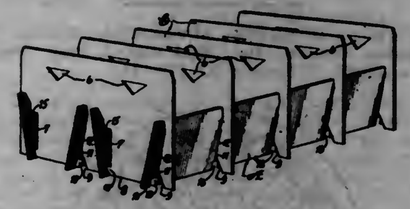
1. A roll stand for printing presses, comprising a supporting frame, a shaft journaled therein, a pair of arms fixed to said shaft, a second pair of arms loose on said shaft, each pair of arms being adapted to support a web-roll, a motor for rotating the shaft, a separate motor for rotating said loosely mounted pair of arms relatively to the other pair, one arm of each of said pairs being adjustable with respect to the other, and adjustable driving connections between said last mentioned motor and the arms driven thereby for rotating the arms in any adjusted position thereof.

1,919,457. CONNECTING DEVICE FOR ELECTRICAL CONDUCTORS. CHARLES ANDREW BAY, Morristown, N. J., assignor to James B. Kearney Corporation, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 16, 1929. Serial No. 332,942. 10 Claims. (Cl. 247—14.)



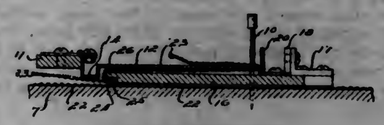
1. A live-tapping cable junction box including an accumulating clamp, a member of dielectric material for housing said clamp, a waterproof enclosure for the clamp and housing member, and a hollow tubular member forming a cable passage, and interconnecting wall portions of the enclosure and housing.

1,919,458. FILLER FOR EGG CARTONS AND THE LIKE. LEON BENOIT, Chicago, Ill. Filed Apr. 18, 1930. Serial No. 445,276. 3 Claims. (Cl. 217—32.)



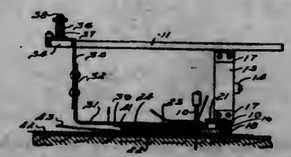
3. A filler comprising two series of walls in intersecting relation, one series of walls having means complementary to and coacting with means in the other series of walls, the means of each series of walls being configured to permit independent swinging movement of the walls of each series through a limited distance into and out of vertical position.

1,919,459. WORK GUIDE FOR SEWING MACHINES. CECIL E. BOYD, Detroit, Mich., assignor to The Murray Corporation of America, a Corporation of Delaware. Filed Aug. 8, 1931. Serial No. 555,962. 18 Claims. (Cl. 112—136.)



1. In a plait forming and work guiding device adapted for use with sewing machines, the combination of a guide plate, a seam receiving groove extending along one side edge of the plate, and a hinged lid associated with said plate and positioned thereover, the forward edge of said lid being parallel to the seam receiving groove of the guide plate.

1,919,460. WORK GUIDE FOR SEWING MACHINES. CECIL E. BOYD, Detroit, Mich., assignor to The Murray Corporation of America, a Corporation of Delaware. Filed Oct. 29, 1931. Serial No. 571,842. 11 Claims. (Cl. 112—136.)



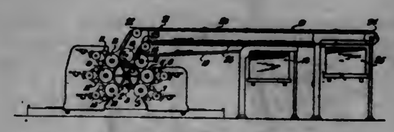
1. As an attachment for a sewing machine, a plait forming and work guiding device, a supporting element, a seam receiving member supported thereby, a lid hinged to said supporting member and cooperating with said seam receiving member, and a spring for biasing said lid to raised position.

1,919,461. METHOD OF AND MEANS FOR TAKING SOIL TESTS. RALPH H. BURKE, Evanston, and ANTHONY J. FORSCHNER, Chicago, Ill. Filed Oct. 30, 1931. Serial No. 572,052. 4 Claims. (Cl. 255—1.)



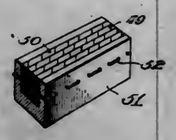
1. In combination in a device of the character described, a trough-like member open at its lower end and at one side and adapted to be driven into the soil, and a second member adapted to be driven into the soil at and along the open side of the first member and to close said open side, said members having means for holding them in cooperating relation with said second member closing the open side of the first member.

1,919,462. MULTICOLOR PRINTING PRESS. LESLIE WILLIAM CLAYBOURN, Milwaukee, Wis., assignor to Claybourn Process Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 28, 1930. Serial No. 471,260. 5 Claims. (Cl. 101—174.)



1. In a multi-color printing press, the combination of a single impression cylinder, a plurality of plate cylinders arranged at one side of said impression cylinder to cooperate therewith, a plurality of plate cylinders arranged at the other side of said impression cylinder to cooperate therewith, inkers for each of said plate cylinders, sheet feed and delivery devices, cooperating with said impression cylinder and arranged adjacent the upper portion thereof between the upper ones of the plate cylinders above mentioned, the lower of said plate cylinders at each side of said impression cylinder being spaced apart to provide free access to the impression cylinder at the bottom portion of the press.

1,919,463. METALLIC PACKING AND METHOD OF MAKING THE SAME. MARTIN M. CODY, Chicago, Ill., assignor to Crane Packing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 29, 1930. Serial No. 491,891. 3 Claims. (Cl. 154—45.5.)



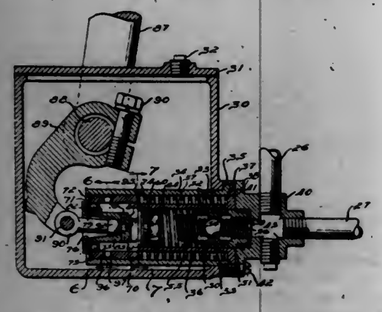
1. Laminated packing comprising an interleaved assembly of strips formed of metallic ribbon convolutions and strips of nonmetallic material, and means for holding said assembly together.

1,919,464. METHOD OF MANUFACTURING BOOTS OR SHOES. CLAUDE H. DANIELS, Newton Center, Mass. Filed Sept. 24, 1931. Serial No. 564,746. 18 Claims. (Cl. 12—142.)



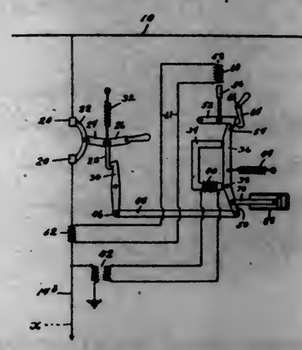
1. The improved method of manufacturing boots or shoes which includes the steps of coating an insole including the ball and shank portion thereof with an adhesive capable of being rendered tacky by heat, temporarily securing said insole on a last, side lasting the marginal portions of a boot or shoe upper section including the ball and shank portion thereof over and into final operative position relative to said insole, securing the marginal portions of said upper against the insole by temporary fastening means, and then applying heat primarily and directly to the lasted over portion of the upper which is not exposed in the finished shoe to render said adhesive tacky and unite said insole and upper section.

1,919,465. HYDRAULIC BRAKE. CLAUDE E. FURGASON, Lansing, Mich. Filed Jan. 16, 1931. Serial No. 509,158. 10 Claims. (Cl. 60—54.6.)



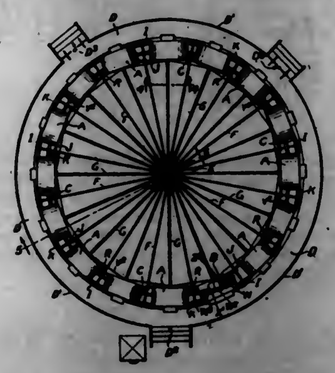
1. A master cylinder device for hydraulic brakes including a casing, a pair of fixed concentric cylinders in said casing, a piston movable in each of said cylinders, a single actuating member for both of said pistons operable to move one of said pistons before the other, and means for rendering the first moved piston ineffective for pumping purposes upon movement of the second moved piston.

1,919,466. ELECTRIC DISTRIBUTION SYSTEM. GUSTAV E. JANSSON, Atlantic, Mass., assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass., a Corporation of Massachusetts. Filed Nov. 3, 1930. Serial No. 493,014. 15 Claims. (Cl. 175—294.)



1. An electric distribution system having a main distribution circuit and a plurality of branch feeder circuits, feeder disconnecting switches connecting said main and feeder circuits, means to deenergize the system including an overload responsive circuit interrupter in said main circuit, and means including an undervoltage relay associated with each feeder disconnecting switch and operative upon opening of said main switch to open the feeder disconnecting switch of an overloaded feeder while maintaining the disconnecting switches of unaffected feeder circuits closed.

1,919,467. AMUSEMENT APPARATUS. ROBERT H. JEWELL, Overland, Mo. Filed Sept. 2, 1931. Serial No. 560,696. 9 Claims. (Cl. 272—44.)

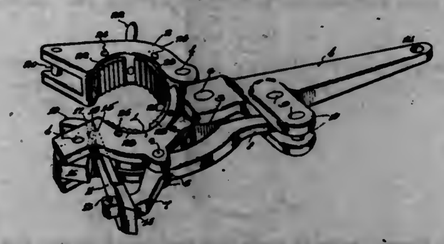


1. An amusement apparatus, composed of a circular track, a circular train of rockable cars on said track comprising a power unit provided with a power-producing device that imparts movement to the train, mechanism under control of the operator by which said power-producing device can be used to rock the cars fore and aft when the train is in motion, and an independent mechanism under control of the operator for tilting the cars transversely.

1,919,468. TONG. OSCAR V. JONES, Dallas, Tex., assignor of three-eighths to Felix E. Voories, Dallas, Tex. Filed Aug. 14, 1931, Serial No. 556,973. Renewed June 10, 1933. 4 Claims. (Cl. 81—91.)

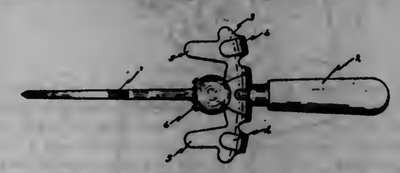
1. A pipe and casing tong including a pair of semi-circular jaws hinged for relative movement and having serrated work engaging slips removably mounted therein,

one of said jaws having a handle pivoted thereto adjacent the hinged point between said jaws, said handle having a bifurcated projection extending therefrom, a jaw latching mechanism, said mechanism comprising a block pivoted in the free end of one of said jaws having a grooved



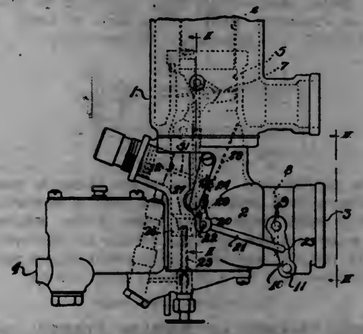
side and a hook shaped end and capable of engaging within a recess in the companion jaw, a wedge having a projection entering the groove of said block and means pivoted to the jaw carrying said block having operative connection with said handle and said wedge whereby to actuate said block upon movement of said handle.

1,919,469. WAFFLE EXTRACTOR. HAROLD KNIZER, Concord, Mass. Filed June 25, 1931, Serial No. 546,801. Renewed Dec. 28, 1932. 3 Claims. (Cl. 294—7.)



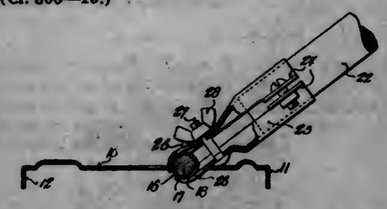
1. A waffle extractor comprising a handle, a blade tapered towards the point, said point slightly upturned, a cross member attached to said blade adjacent said handle, said member provided with projections forming stops and projections forming supports, a resilient thumb-press positioned above said member, said thumb-press having downwardly pointed notches or teeth at its outer extremity.

1,919,470. CARBURETOR. CHARLES H. KIRBY, Flint, Mich., assignor to Marvel Carbureter Company, Flint, Mich., a Corporation of Illinois. Filed Oct. 5, 1927. Serial No. 224,035. 2 Claims. (Cl. 261—46.)



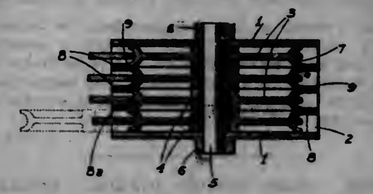
1. In a carburetor, a casing forming a fuel mixing chamber having air and fuel inlets thereto and a throttle valve controlled outlet, a choke valve in said air inlet, a bypass mixture passage leading from said mixing chamber at a point close to the fuel inlet thereto, means adapted to collect precipitated liquid fuel discharged from said fuel inlet and to supply the same to the inlet of said bypass passage, said passage forming a mixture bypass around said throttle and discharging into the mixture chamber outlet above the throttle, a valve controlling said bypass mixture passage, and means actuated by the closing of said choke valve to open said bypass controlling valve, said bypass passage serving to apply suction adjacent the fuel inlet to pick up fuel mixture adjacent the fuel inlet during choking.

1,919,471. MOP. ARTHUR C. KOOTZ, Milwaukee, Wis. Filed Aug. 25, 1930. Serial No. 477,584. 5 Claims. (Cl. 306—19.)



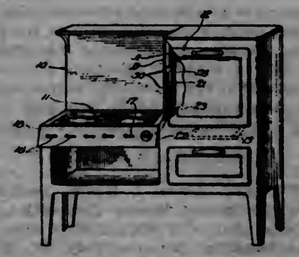
1. In a mop, the combination of a mop head of sheet metal having integral parts thereof formed to provide a pivot pin portion, and a reinforcing member for said pivot pin portion about which said parts are clamped.

1,919,472. SHEAVE CONSTRUCTION. ROBERT G. LETOURNEAU, Stockton, Calif. Filed Dec. 23, 1932. Serial No. 648,634. 2 Claims. (Cl. 254—192.)



1. A multiple-pulley sheave comprising a block, open at one end, a plurality of pulleys turnably mounted in the block, and cable separating plates mounted in the block and extending about the pulleys in overlapping relation to the adjacent edges of adjacent pulleys; one half of one of the separators adjacent one side of the block being offset transversely and away from said side to a distance not less than the width of a pulley; said half being the one nearest the open end of the block.

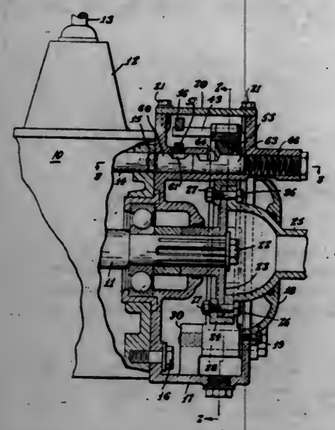
1,919,473. THERMOSTAT. HAROLD A. MANTZ, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 1, 1931. Serial No. 548,087. 21 Claims. (Cl. 236—15.)



1. In a heat control device for an oven a heat responsive element at the oven, a control mechanism adapted for axial actuating movement and remotely disposed with

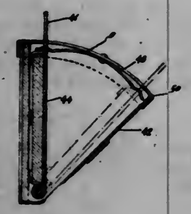
reference to the heat responsive element and a flexible rotatable connection between the heat responsive element and the control mechanism, and adapted to be rotated by said heat responsive element to actuate said control mechanism.

1,919,474. REVERSE BRAKE. CARL A. MATSON, Lynnfield, Mass., assignor to The Matson Company, Concord, N. H., a Corporation of New Hampshire. Filed Apr. 3, 1929. Serial No. 352,173. 21 Claims. (Cl. 192—4.)



1. In a device of the kind described, the combination with a transmission gearing, including a transmission shaft and a propeller shaft, of a reverse brake mechanism, including an annular flange, and means for connecting the annular flange directly to the transmission and propeller shaft.

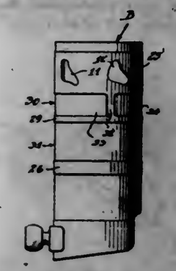
1,919,475. REAR VISION MIRROR. CHARLES W. MCKINLEY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed June 29, 1932. Serial No. 619,823. 6 Claims. (Cl. 45—97.)



1. In a rear view mirror the combination of a housing having an open front, a transparent cover for the front of the housing providing a reflector of low efficiency for use in night driving, a mirror adjustably mounted in the housing at the rear of the cover, said mirror being shiftable into reflecting position at said open front to provide a reflector of high efficiency for use in daytime driving.

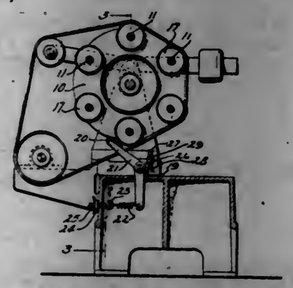
1,919,476. ENGINE. ANDRE J. MEYER, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed Oct. 5, 1931, Serial No. 566,927. Renewed July 27, 1932. 24 Claims. (Cl. 123—81.)

1. An engine of the sleeve valve type including a cylinder and associated piston, a sleeve valve, said sleeve and cylinder having cooperative intake and exhaust ports, said sleeve having a diameter at its ports greater than its diameter adjacent thereto, and means cooperating with



the sleeve portion of lesser diameter for preventing communication between the cylinder intake and exhaust ports around the sleeve.

1,919,477. BRAKING ATTACHMENT FOR SANDING MACHINES. JOHN M. NASH, Milwaukee, Wis. Filed Aug. 6, 1930. Serial No. 473,475. 7 Claims. (Cl. 51—237.)



4. In a machine of the described class, the combination with a revoluble carrier having an annular series of rotatable spindle driving members, of a relatively stationary brake yieldingly supported in the path of said members, said brake having a supporting spring actuated lever adapted to hold it normally in the path of portions of said members more radially distant from the carrier axis than the axial centers of the members.

1,919,478. PREVENTION OF IRON AND STEEL SLUGS ENTERING SLOT MACHINES. GUST POULAS, Cleveland, Ohio, assignor of forty per cent to Theodore Bibicos, Cleveland, Ohio. Filed Sept. 9, 1932. Serial No. 632,345. 4 Claims. (Cl. 194—101.)

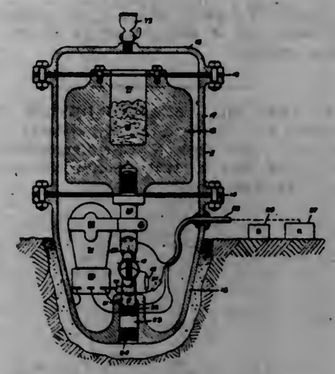


1. The combination with a casing having a coin slot, of a magnet fixed beside the slot, and a magnetic stop member pivoted between the poles of the magnet and adjacent the slot and normally held by the magnet out of line with the slot and adapted to swing across said slot upon the insertion of a magnetic slug therein.

1,919,479. PROCESS OF MAKING ALLOYS. DONALD W. RANDOLPH, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed May 26, 1932. Serial No. 613,767. 6 Claims. (Cl. 75—1.)

1. The method of producing an alloy of nickel and barium which consists in melting the nickel metal and maintaining it at a temperature of approximately 2800° F. to 2850° F., coating or covering the barium to render it impervious to air and moisture, immersing the barium beneath the surface of the melt, and maintaining it at the said temperature for a short period to insure thorough alloying, and immediately pouring the resulting alloy.

1,919,480. TRANSLATING DEVICE. FRANK RIEBER, Berkeley, Calif. Filed Feb. 5, 1927. Serial No. 166,136. 1 Claim. (Cl. 177—352.)



A device for translating mechanical vibrations into electrical current variations comprising a resiliently supported mass of large inertia, a member adapted to be vibrated, a piezo-electric cell, a ball and socket connection between the mass and one portion of the cell, and another ball and socket connection between said member and another part of the cell.

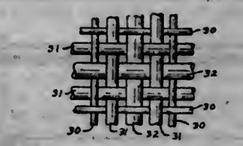
1,919,481. PHOTOGRAPHIC SCREEN. GEORGE S. ROWELL, Cleveland, Ohio, assignor to Multigraph Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 3, 1931. Serial No. 566,640. 9 Claims. (Cl. 95—81.)



3. A photographic screen comprising an open mesh fabric formed of intersecting sets of substantially parallel strands, individual strands being of translucent material and of substantially circular cross section, whereby the transmission of light by the screen will vary from substantially 100 percent in the open mesh spaces to practically zero at the center of the intersections of the respective strands by gradual changes in light transmission.

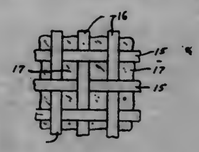
1,919,482. PHOTOGRAPHIC SCREEN. GEORGE S. ROWELL, Cleveland, Ohio, assignor to Multigraph Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 3, 1931. Serial No. 566,641. 6 Claims. (Cl. 95—81.)

1. A photographic screen comprising an open frame, a stretched open mesh fabric carried thereby and formed by intersecting sets of substantially parallel strands, the sets of strands comprising threads or filaments of varying



size, whereby the screen will produce a pattern in the background of the reproduction.

1,919,483. COMBINED COLOR FILTER AND SCREEN. GEORGE S. ROWELL, Cleveland, Ohio, assignor to Multigraph Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 3, 1931. Serial No. 566,642. 6 Claims. (Cl. 95—81.5.)



1. A combined color filter and screen comprising an open mesh fabric woven of flat filaments, the interstices of the fabric being filled with a colored translucent material bounded by parallel planes on opposite sides.

1,919,484. SHOCK INSULATOR. CURT SAUER, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 22, 1930. Serial No. 477,180. 6 Claims. (Cl. 248—14.2.)

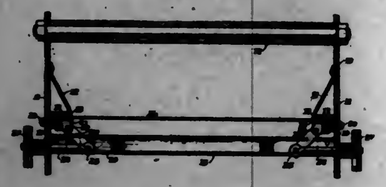


6. A rubber shock insulator comprising a pair of substantially parallel plates, a rubber pad vulcanized to and between said plates, one of said plates being formed with an opening in the side thereof, the other of said plates being formed with an angular extension projecting through said opening, said projection and the portion of the plate formed with said opening affording an interlocking safety means to prevent undue separation and movement of the plates when a load is applied tending to move the plates in parallel planes relatively to each other.

1,919,485. SCREENING APPARATUS. LEWIS E. SOLDAN, Buffalo, N. Y., assignor to Productive Equipment Corporation, Chicago, Ill., a Corporation of Illinois. Filed Oct. 1, 1928. Serial No. 309,405. 6 Claims. (Cl. 209—403.)

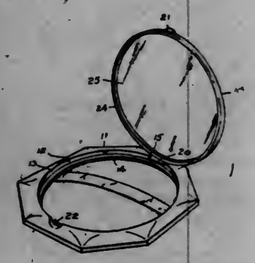
1. In a screening apparatus, a frame, a wire cloth, and means for fastening the wire cloth in position in the frame comprising strips resiliently yieldable toward the sides of the frame, other strips movable into clamped relation with the first mentioned strips with the edges of the wire cloth therebetween, and single operating means

for first moving the second mentioned strips into clamped relation with the first mentioned strips whereby to grip the edges of the wire cloth therebetween and for then



moving the first and second mentioned strips together toward the sides of the frame whereby to tension the wire cloth.

1,919,486. COMPACT. SAMUEL STORCH, Brooklyn, N. Y. Filed Jan. 6, 1933. Serial No. 650,469. 5 Claims. (Cl. 132—83.)



1. In a compact of the character described, the combination of a receptacle, comprising a bottom section and a top section, the latter having a flanged opening to give access to the interior of the receptacle, the meeting line of the top surface and flange forming an angle in which a depression is provided, a cover for the opening having a foundation plate provided with an integral projection bent over upon itself to form a hinge strap adapted to be received in the depression, and a hinge pin carried by the top section and projected across the depression and through the hinge strap.

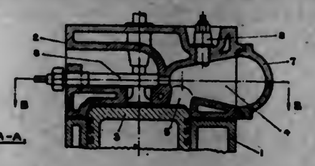
1,919,487. HOSIERY. WILLIAM L. THOMPSON, Indianapolis, Ind., assignor to Real Silk Hosiery Mills, Inc., Indianapolis, Ind., a Corporation of Indiana. Filed Oct. 11, 1930. Serial No. 488,067. 2 Claims. (Cl. 66—182.)



1. As a new article of manufacture, a knit stocking having a reinforced fabric toe portion comprising a multiple of yarns immune to the hardening action of dies.

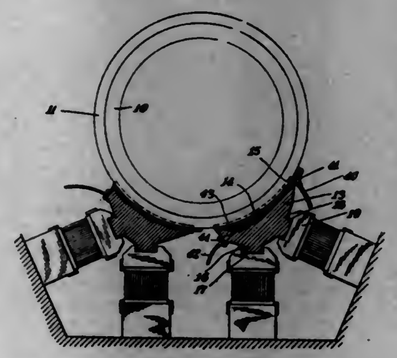
1,919,488. INTERNAL COMBUSTION ENGINE. BJARNE THULIN, Detroit, Mich. Filed Apr. 11, 1930. Serial No. 443,494. 9 Claims. (Cl. 123—32.)

1. In an internal combustion engine, having piston, cylinder, and cylinder head, a substantially pear-shaped combustion chamber, means for injecting fuel only, as a spray from a point on the wall of the said combustion chamber, said spray originating from the small end of the said combustion chamber and pointing substantially



in the direction of the axis; and a throat passage leading from the small end of said combustion chamber to the said engine cylinder.

1,919,489. TUBE MILL BEARING DEVICE. MICHAEL TRESCHOW, Kew Gardens, N. Y., assignor to F. L. Smidth & Co., New York, N. Y., a Corporation of New Jersey. Filed May 2, 1931. Serial No. 534,537. 7 Claims. (Cl. 308—15.)



3. A bearing shoe support comprising a bearing shoe having a hollow cylindrical bearing surface, a base, a plurality of bearing devices between the shoe and base, the axes of the devices intersecting on the cylindrical surface and forming equal angles with a tangent to the cylindrical surface at the point of intersection, means to permit relative rolling movement between the devices and associated shoe, said devices being formed of top and bottom plates, tie rods connecting the plates and laminations spacing the plates and formed with curved end bearing surfaces.

1,919,490. SOURCE OF LIGHT AND METHOD OF OPERATING THE SAME. EGBERT VON LEPEL, New York, N. Y. Filed July 1, 1932. Serial No. 620,403. 6 Claims. (Cl. 176—122.)



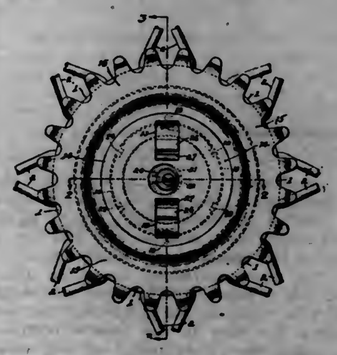
1. As a new and improved article of manufacture, a container, an induction coil passing around a major portion of the wall of said container, a medium located within said container and adapted to become excited into luminescence by the passage of an alternating current through said induction coil, so as to produce an arc of predetermined dimensions within said container, a minor portion of the wall of said container being sufficiently spaced from said arc so that the temperature of said spaced part of the wall remains sufficiently low to prevent the pressure within said container from exceeding a predetermined limit.

1,919,491. REENFORCED COLUMN. RALPH WAGGONER, Los Angeles, Calif., assignor to Marbelite Corporation of America, Los Angeles, Calif., a Corporation of Delaware. Filed Dec. 8, 1929. Serial No. 411,270. 3 Claims. (Cl. 72—76.)



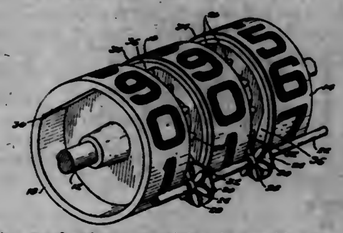
1. A combined reenforcing column and base for concrete structures, comprising a plurality of long longitudinal reenforcing rods in spaced relation about a longitudinal axis, each bar being substantially completely in a plane passing through said axis but deformed in said plane to have one end thereof at a greater distance from said axis than the other end, a plurality of continuous circular transverse members welded to said rods at spaced transverse planes along said axis, and a plurality of shorter longitudinal rods in spaced relation about the axis and between said long rods and welded to said transverse members.

1,919,492. WHEEL HUB CAP AND LOCK THEREFOR. HERBERT WALTERS, Detroit, Mich., assignor, by direct and mesne assignments, to Detroit Metal Specialty Corporation, Detroit, Mich., a Corporation of Michigan. Filed Oct. 10, 1932. Serial No. 636,983. 6 Claims. (Cl. 70—90.)



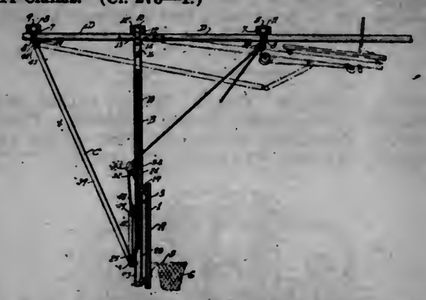
1. The combination with a wheel hub having an open outer end, of a cap for closing said open end of said hub, means projecting through and operable from outside said cap for detachably holding said cap in place over said open end of said hub, and a key operated lock for locking said means against operation to release said cap.

1,919,493. ODOMETER. JOSEPH ZUBATY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed June 18, 1928. Serial No. 286,362. 1 Claim. (Cl. 235—96.)



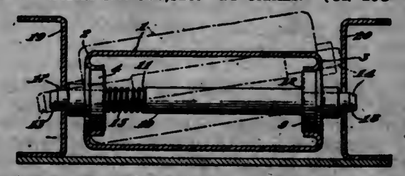
Odometer mechanism comprising in combination a plurality of axially aligned figure wheels, transfer means between two of said wheels to drive a second from a first, weight means to unbalance said second wheel of said pair, said weight means operable at zero position of said figure wheels through the instrumentality of said transfer means to aid in maintaining alignment of the zeros on said figure wheels.

1,919,494. BASKET-BALL BACKSTOP. FRANK ALBACH, St. Louis, Mo., assignor to Fred Medart Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed June 1, 1931. Serial No. 541,846. 14 Claims. (Cl. 273—1.)



1. In a basket-ball back-stop, a back-stop frame, a swingable brace-frame, and means for detachably connecting the brace-frame to the back-stop frame in playing position, said means including a shaft on the brace-frame for engagement with the back-stop frame, and a bolt shiftable on the back-stop frame for engagement with the shaft.

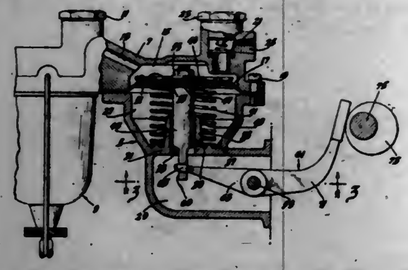
1,919,495. CONVEYER. LAVONT C. ALLEN, Syracuse, N. Y., assignor to The Lamson Company, Syracuse, N. Y., a Corporation of Massachusetts. Filed Dec. 5, 1930. Serial No. 500,329. 14 Claims. (Cl. 198—37.)



1. A conveyer roller unit having in combination bearing units secured to each end of the roller, a shaft engaged by the bearing units and having a free axial movement therein, means limiting the axial movement of the

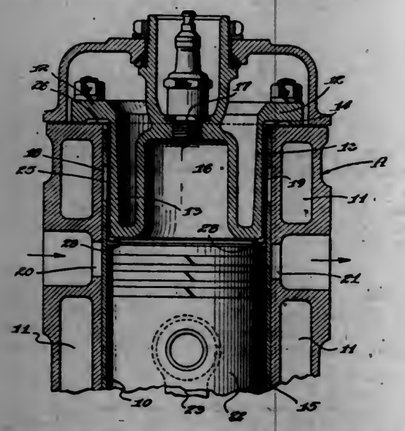
shaft toward one of the bearing units, and means maintaining the shaft in operative position during the operation of said roller.

1,919,496. FUEL PUMP. ABRAHAM M. BABITCH, Flint, Mich. Filed Feb. 18, 1931. Serial No. 516,642. 9 Claims. (Cl. 103—38.)



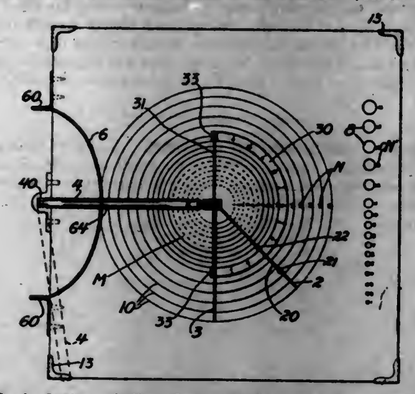
1. In a fuel pump, a pump body, a cover secured thereto, a flexible diaphragm secured between the body and cover and forming with the cover a pump chamber, said body provided with two chambers, a spring in a first one of said chambers exerting pressure on said diaphragm tending to produce a discharge stroke and calibrated to overcome pump chamber pressures below a predetermined pressure, a lever pivoted in the second chamber, a pump rod connected to said diaphragm, extending through said first chamber and into said second chamber, and therein connected to said lever, said lever projecting from said pump body to a position adjacent an actuating member, and a second spring in said first chamber engaging said diaphragm, calibrated to overcome higher pump chamber pressures and to at all times hold said lever in contact with said actuating member.

1,919,497. ENGINE. CARL F. BACHLE, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed Oct. 26, 1931. Serial No. 570,992. 15 Claims. (Cl. 123—81.)



1. In an engine, a cylinder, a structure closing the cylinder and having a portion depending within and spaced from the cylinder, valve means operable in the space provided between said structure and cylinder, a yielding sealing element associated with said structure for sealing said space, and non-yielding means engaging said sealing element on assembly of the engine structure for springing same to produce radial pressure against the valve means for sealing the sleeve pocket.

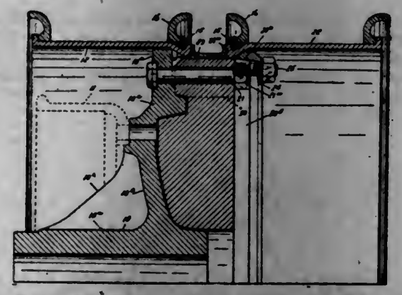
1,919,498. DEVICE FOR USE IN MIXING PRINTER'S INK. HARRY A. BRAGG, Seattle, Wash. Filed Feb. 16, 1931. Serial No. 516,154. 14 Claims. (Cl. 33—1.)



2. A device of the character described comprising a table bearing a series of concentric circles, a pair of hingedly connected plates constituting an angular divider, and means supporting and guiding said divider for movement downward into operative position, in contact with the table, with its hinge axis in registry with the center of said circles, and away from such operative position.

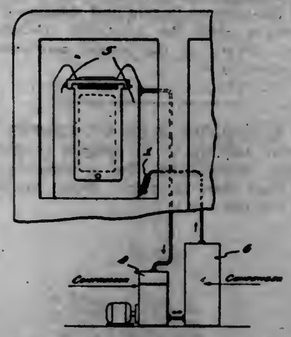
4. A device as in claim 2, the supporting and guiding means including an arm upon one end of which the divider is supported, means supporting the other end of the arm for movement of the divider towards and from the table, and for swinging movement away from the center of the circles, said supporting and guiding means also including a member notched to receive the arm and thereby to exactly position the hinge axis of the divider in registry with the center of the circles, said member inclined downwardly away from said notch to maintain the divider elevated above the table and to cause it to swing laterally away from the center of the circles.

1,919,499. DUAL AND SINGLE RIM WHEEL. WINFIELD S. BRINK, Akron, Ohio, assignor to The Firestone Steel Products Company, Akron, Ohio, a Corporation of Ohio. Filed May 3, 1930. Serial No. 449,503. 2 Claims. (Cl. 301—13.)



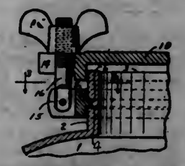
1. In combination, a wheel having a peripheral rim seat, a first tire carrying rim mounted on said seat, an annular traction increasing weight secured to the wheel to project axially from said seat and first rim, a second tire carrying rim adapted to be positioned so as to project, for the major portion of its width, axially from the outer side of said weight member, said weight member serving as a support for said second rim, and means for securing the rims in the relative positions above specified comprising means acting on said second mentioned rim and through it to the first mentioned rim, to secure the latter on its seat.

1,919,500. APPARATUS FOR CONTROLLING THE FLOW OF REFRIGERANT IN REFRIGERATING APPARATUS. THOMAS E. CARPENTER, Detroit, Mich., assignor, by mesne assignments, of two-thirds to Isaac L. Rice, jr., New York, N. Y., and one-third to Stuart C. Barnes, Detroit, Mich. Filed July 9, 1926. Serial No. 121,301. 3 Claims. (Cl. 62—126.)



1. In a mechanical refrigerating system of the mechanical compression expansion flooded type the combination of a pulsating piston type compressor, a condenser, a cooling unit, and a single helical coil capillary tube positioned between the condenser and cooling unit and proportioned as to length and diameter relative to the capacity of said compressor, condenser and cooling unit as to restrict the flow of refrigerant and maintain the transmission to the cooling unit at a predetermined rate, said capillary tube connecting with the cooling unit and condenser.

1,919,501. CONTAINER. ISAAC E. COLVIN, Belding, Mich., assignor to Metal-Glass Products Co., Belding, Mich., a Corporation of Michigan. Filed Sept. 4, 1931. Serial No. 561,168. 2 Claims. (Cl. 220—55.)



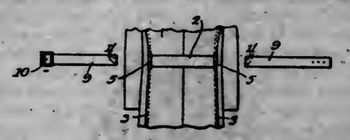
1. In a container having a neck provided with a peripheral groove, a spring metal split ring having a peripheral tongue adapted to detachably slide on said neck and tensionally fit within said groove, and clamps secured to said ring for clamping a cap to said neck.

1,919,502. METHOD OF NEUTRALIZING BUTTER FAT. ELMER M. DAVIS, Chicago, Ill., assignor to Swift and Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 4, 1932. Serial No. 590,992. 2 Claims. (Cl. 99—11.)

1. The process of treating butter which comprises neutralizing, pasteurizing, churning, and removing the buttermilk, adding sodium-phosphate to the wash water, washing the churned butter in the wash water, salting and working, and adding the resultant butter to normal cream for churning therewith.

1,919,503. COAT BELT. NICOLA G. DE MARCO, Chicago, Ill., assignor to Alfred Decker & Cohn, Inc., Chicago, Ill., a Corporation of Illinois. Filed Mar. 21, 1932. Serial No. 600,210. 8 Claims. (Cl. 2—93.)

1. In an overcoat, a three-section belt therefor made of the same goods to match the coat, having a fixed or permanent back section secured at its ends across the back of the garment, and having detachable end sections which are separably connected to the garment at points



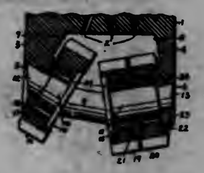
where the back section is connected to the coat, whereby the garment may be worn with either a full-belted or a partially-belted effect, with said back section serving for both effects.

1,919,504. AMMETER. JESSE E. ESHBAUGH, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Feb. 2, 1931. Serial No. 512,854. 4 Claims. (Cl. 171—95.)



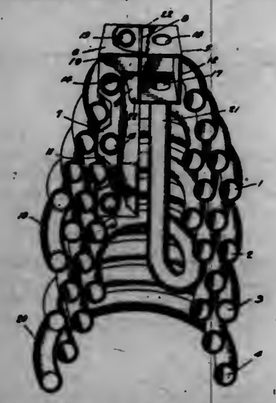
4. In an electrical measuring instrument, a casing, a pointer unit comprising a plate, a pointer shaft, a tongue bent from the said plate to form a support for the shaft, a pointer rigid with the shaft, and a magnet mounted on the plate to bias the pointer, a frame in the casing, a plurality of uprights on said frame for supporting said unit, and a conductor secured to said frame.

1,919,505. ROLLER BIT. RUSSELL GIBSON, Oklahoma City, Okla., assignor to Reed Roller Bit Company, Houston, Tex., a Corporation of Texas. Filed Dec. 12, 1931. Serial No. 580,609. 6 Claims. (Cl. 255—71.)



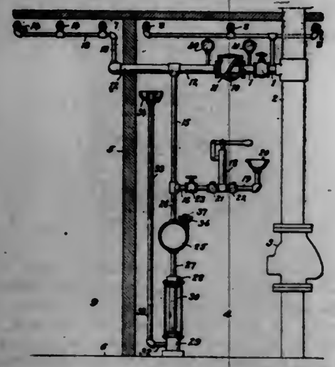
1. In a roller bit: a head having a pair of bearing extensions depending from opposite sides thereof, each of said extensions having a downwardly opening slot, the inner walls of said extensions being inclined upwardly and inwardly at different angles to the longitudinal axis of said head; a pin having a first cutter bearing portion to extend downwardly and inwardly from and at substantially a right angle to one of said walls, and a second cutter bearing portion to extend downwardly and inwardly from and at substantially a right angle to the other of said walls; the first of said bearing portions being shorter than the second of said bearing portions; annular flanges adjacent the inner ends of said bearing portions; a first roller cutter on the first of said bearing portions to extend laterally beyond the periphery of said head; and a pair of roller cutters on the second of said bearing portions to balance said first cutter; the innermost of said pair of cutters extending below said first cutter to cut in advance thereof; said pin with said cutters thereon being secured to and slidable into the slots in said extensions, the ends of said pin being supported by the walls of said slots.

1,919,506. WATER HEATER. JOHN C. GLENN, Chicago, Ill. Filed Nov. 23, 1931. Serial No. 576,828. 2 Claims. (Cl. 122—247.)



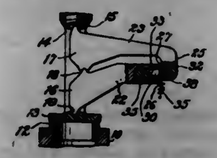
1. In a water heater, a plurality of superposed overlapping conical coils, said coils being connected into pairs at their lower ends, each pair having an inlet and outlet, a header extending into the space in the center of said coils, partitions in said header dividing its interior into a plurality of separate chambers, an inlet and outlet for each of said chambers, the inlet of one of said pairs of coils being connected to the outlet of one of said chambers, the outlet of said pair being connected to the inlet of another chamber, the outlet of said last named chamber communicating with another of said pairs of coils.

1,919,507. SPRINKLER FIRE EXTINGUISHING SYSTEM. WILLIAM B. GRIFFITH, Audubon, N. J., assignor to Star Sprinkler Corporation, Philadelphia, Pa., a Corporation of New Jersey. Filed Oct. 13, 1930. Serial No. 488,241. 4 Claims. (Cl. 169—16.)



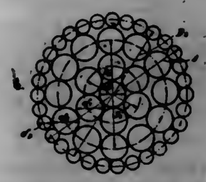
1. A sprinkler system comprising a distributing pipe connected with a wet type sprinkler system containing water under pressure, an extension pipe containing a non-freeze medium, a check valve connected between the distributing pipe and the extension pipe positioned to automatically open toward the extension pipe, said distributing pipe, said valve, and a portion of said extension pipe located in an area not subject to freezing temperatures, a sprinkler head responsive to fire conditions connected with the extension pipe, said head and a portion of the extension pipe located in an area subject to freezing temperatures, a branch pipe connected with the extension pipe, a U-shaped pipe having one leg connected with the branch pipe and extending downwardly therefrom, the other leg being open, mercury in both legs of said U-shaped pipe, the open ended leg being of such a height as to establish therein a difference in heights of the columns of mercury sufficient to produce on the check valve a pressure capable of maintaining it seated against pressure of water in the distributing pipe, and means for subjecting the non-freeze medium to pressure connected in communication with the extension pipe at a point above the level of the mercury in said first mentioned leg whereby the pressure upon the non-freeze medium will act against the mercury in the second mentioned leg and against the check valve.

1,919,508. AUTOMATIC FIRE APPARATUS. WILLIAM B. GRIFFITH, Audubon, N. J., assignor to Star Sprinkler Corporation, Philadelphia, Pa., a Corporation of New Jersey. Filed Mar. 31, 1932. Serial No. 602,171. 3 Claims. (Cl. 169—42.)



1. A device of the character described comprising, separable members having adjacent surface movable longitudinally relatively to each other, a key positioned between said members, said members having recesses formed in their adjacent surfaces to receive said key, the recess in one of said members forming a deep pocket having a closed inner end, fusible material confined within said deep pocket arranged for normally holding the key in locking position between said members, and the recess formed in the opposite member forming a closed shallow pocket with cam surfaces arranged to force the key into said deep pocket to displace the fusible material and release said members when the fusible material is melted.

1,919,509. MULTIPLE LAY CABLE. JOSEF GRÖSL, Solln near Munich, Germany, assignor to the Firm Bayernwerk Aktiengesellschaft, Munich, Germany. Filed Aug. 24, 1929, Serial No. 388,136, and in Germany Sept. 6, 1928. 2 Claims. (Cl. 117—52.)



1. A three or more strand cable comprising a core, a plurality of layers wound thereupon each layer comprising a plurality of individual elements, the diameter of each of the individual elements of the inner layers being greater than that of the individual elements of the outermost layer and the pitch of the individual elements of the inner layers being smaller than that of the individual elements of the outermost layer, whereby the dimensions of the said cable constituents and the pitch are correlated and defined by the following equation:

$$\frac{D_1.Z_1.\epsilon_1}{1+\left(\frac{\epsilon_1}{\pi}\right)^2} \pm \frac{D_2.Z_2.\epsilon_2}{1+\left(\frac{\epsilon_2}{\pi}\right)^2}\left(\frac{\delta_2}{\delta_1}\right)^2 \pm \ldots \frac{D_n.Z_n.\epsilon_n}{1+\left(\frac{\epsilon_n}{\pi}\right)^2}\left(\frac{\delta_n}{\delta_1}\right)^2 = 0$$

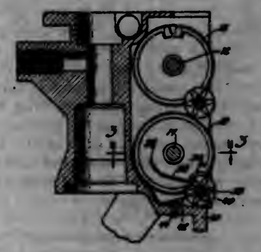
in which D designates the diameter of a layer from mid portion to mid portion, Z designates the number of the individual elements of a layer, ϵ designates the factor by which the diameter of a layer, measured from outer circumference to outer circumference, must be multiplied to obtain the length of one turnover of the layer measured parallel to the longitudinal axis of the cable, δ designates the diameter of an individual element of a layer, the plus marks and minus marks indicate the left and right winding direction respectively, and the indices 1, 2 . . . n indicate the layer member counted from the core of the cable.

1,919,510. APPARATUS FOR LOWERING PIPES IN WELLS. GEORGE G. HARRINGTON, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a Corporation of Texas. Filed Aug. 31, 1931. Serial No. 560,359. 5 Claims. (Cl. 255—28.)



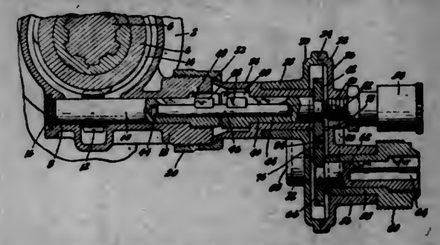
1. A well pipe valve carrier having a fluid passageway therethrough, a float valve in said passageway, a pipe engaging carrier holding dog movable into active and inactive positions, and means to move said dog into its inactive position.

1,919,511. QUICK RESET MECHANISM FOR ODOMETERS. RALPH O. HELGEBY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Dec. 16, 1929. Serial No. 414,451. 2 Claims. (Cl. 235—144.)



1. In combination with odometer mechanism comprising aligned figure wheels of successively higher order provided with a transfer gear tooth at one side and continuous gear teeth at their opposite side, transfer pinions located between each pair of figure wheels, said transfer pinions being provided with teeth which are normally in continuous driving engagement with the gear teeth on the figure wheel of higher order and in intermittent driving engagement with the transfer tooth on the figure wheel of lower order whereby the figure wheel of higher order will be rotated a part of a revolution for each revolution of the figure wheel of lower order when the latter is driven in one direction, and resetting mechanism adapted to be operatively connected to the figure wheel of lowest order; a frame in which said odometer mechanism is supported, said frame having slots formed therein, and a shaft upon which said transfer pinions are rotatably supported, the ends of said shaft being located in the slots in said frame whereby said shaft will be supported by said frame but will be movable laterally with respect thereto, said shaft normally being held at one end of the slots in said frame whereby the transfer pinions are held in such position that their teeth are in driving engagement with the continuous teeth on said figure wheels, said shaft being adapted to be moved to the opposite ends of the slots in said frame to enable the teeth on said transfer pinions to ride over the continuous teeth on the figure wheels when the figure wheel of lowest order is rotated in the opposite direction by the resetting mechanism, thereby rendering the transfer pinions inoperative for driving purposes in order that all of the figure wheels may be reset to zero position by a number of revolutions not exceeding the number of figure wheels employed.

1,919,512. SPUR GEAR SPEED ADAPTER. RALPH O. HELGEBY and DONALD D. WALLER, Flint, Mich., assignors to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Aug. 22, 1931. Serial No. 558,644. 5 Claims. (Cl. 74—7.)



1. In a speed adapter, a housing, a plurality of gears in the housing, shafts extending into the housing and each having the gear secured thereto, recessed portions in said housing, blocks slidable in said recessed portions, a gear between said blocks and meshing with the other gears, and a shaft passing through the gear and blocks.

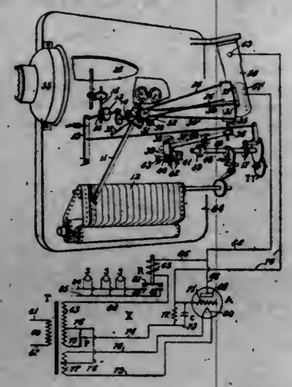
1,919,513. FOCUSING MEANS FOR PHOTOGRAPHIC CAMERAS AND PROJECTORS. CHARLES EDWARD HILLERY-COLLINGS, London, England, assignor, by mesne assignments, to Camera-Projectors Limited, London, England, a British Company. Filed Feb. 25, 1932, Serial No. 595,104, and in Great Britain Mar. 16, 1931. 4 Claims. (Cl. 88—16.)



1. In a photographic camera convertible for use as a projector, an outer casing, a lens fixed in said outer casing, an inner casing pivotally connected with said

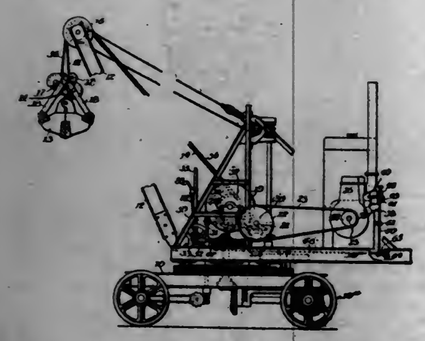
outer casing, a film gate carried in said inner casing at a point remote from the pivotal connection, a manually operable external member movable in said outer casing and adapted to engage said inner casing to rock said inner casing about its pivots to vary the focal length, a second manually operable external member movable in said outer casing and adapted to disengage said first named external member from said inner casing, and resilient means to return said inner casing to the position of minimum focal length upon the occurrence of such disengagement.

1,919,514. SIGNAL CONTROL FOR DEMAND METERS. JAMES HYSLOP, Terre Haute, Ind. Filed Dec. 27, 1932. Serial No. 649,014. 12 Claims. (Cl. 171—34.)



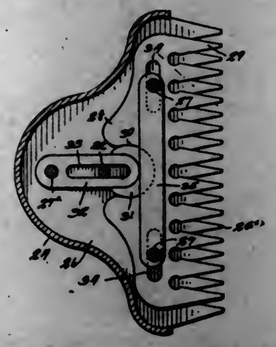
1. The combination of an energy-sensitive element, signaling means responsive to changes in condition of said element, an energy source arranged to affect said energy-sensitive element, a pair of coacting shields interposed between said source and said energy-sensitive element, means for cyclically simultaneously shifting said shields while maintaining shielding value thereof, and means independent of said last-mentioned means movable through a predetermined cycle for causing relative movement of said shields to thereby vary their shielding value.

1,919,515. EXCAVATING MACHINE. EDMUND JOSEPH KANE, Chicago, Ill. Filed Mar. 9, 1928. Serial No. 260,365. 7 Claims. (Cl. 212—38.)



1. In an excavating machine, the combination with a power unit consisting of a governor controlled internal combustion engine provided with a throttle control valve for controlling the power and speed of the engine, an operating hand lever for controlling one of the operating functions of the excavating machine, of a hand operated device operatively connected with and carried by said hand lever, and a resilient operating connection between said hand operated device, said governor control mechanism and said throttle for moving said throttle irrespectively of the position or movement of said hand lever for accelerating the speed of said power unit, said resilient member being adapted to yield and restore the normal functioning of the governor controlling means when the latter passes a predetermined excessive speed.

1,919,516. HEDGE TRIMMER OR CLIPPER. HERBERT KOCH, Algoma, Wis., assignor of one-half to John Slaby, Algoma, Wis. Filed Nov. 17, 1932. Serial No. 643,119. 3 Claims. (Cl. 30—11.)

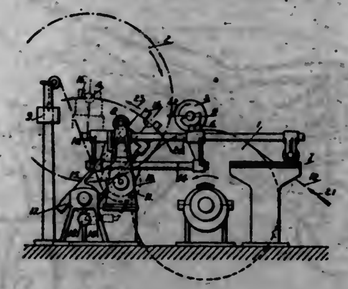


1. A clipper of the character described, comprising a supporting frame having a handle, an electric motor carried by the frame and having a shaft and a casing enclosing the shaft and forming part of the frame, a gear casing forming part of the frame and extending downward therefrom, a vertical shaft disposed within the gear casing and having a gear operatively engaged with the gear on the motor shaft, the lower end of the vertical shaft having a crank provided with a wrist pin, the lower end of the casing terminating in a plate provided along one edge with cutting teeth, the gear casing terminating in a plate confronting the first named plate but spaced therefrom, an arm disposed within said space and pivoted at its rear end and formed with a longitudinally extending slot into which the wrist pin engages, a knife disposed between the upper and lower plates and reciprocating transversely thereof and having teeth coacting with the teeth on the first named plate, means for guiding the knife for rectilinear movement, the rear edge of the knife having a circular recess, a wear plate disposed within said recess and oscillating therein, the slotted arm at its forward end engaging in said wear plate.

1,919,517. PROCESS FOR PROVIDING A TRANSPARENT COATING ON GLASS SURFACES. KOJI KONISHI, Kyobashi-Ku, Tokyo, and SAISUKE KODAMA, Suginami-Machi, Toyotama-Gun, Tokyo-Fu, Japan; said Kodama assignor to said Konishi. Filed Dec. 10, 1930, Serial No. 501,466, and in Japan June 19, 1930. 4 Claims. (Cl. 91—68.)

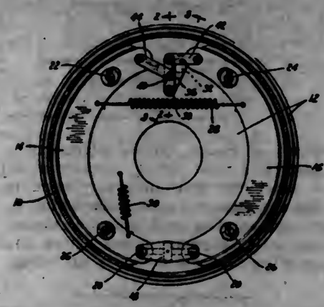
1. A process for providing a transparent coating or film upon glass surfaces, comprising dissolving cellulose acetate in a slowly drying solvent, diluting the solution with a liquid selected from the group consisting of acetone, bensol, and bensin-alcohol, coating the respective glass article with said composition, and subjecting the coated articles to the action of bensol vapor, substantially as set forth.

1,919,518. MACHINE FOR WINDING PAPER BELTS. JOAN HERMAN ANNE KRUIMEL, Bloemendaal, Netherlands. Filed Oct. 31, 1931, Serial No. 572,807, and in Germany June 6, 1930. 6 Claims. (Cl. 242—65.)



1. A machine for winding paper-webs, comprising a driving drum, a set of open bearings for carrying a winding roll, a horizontal frame supporting said open bearings slidable in the direction of the paper movement as said winding roll receives more paper, a second set of open bearings for receiving said winding roll from the first set of said open bearings, pivotal means supporting the second set of bearings in spaced relation from the first set of open bearings for shifting said second set from a position near the circumference of the driving drum, and weighted means for opposing the movement of the frame whereby to maintain uniform winding of the roll on the first set of open bearings.

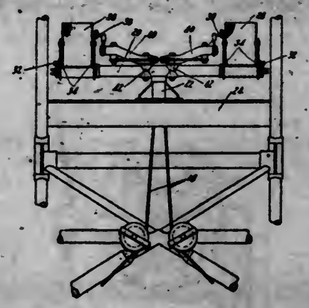
1,919,519. BRAKE. LUDGER E. LA BAIE, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois. Filed Oct. 24, 1930. Serial No. 490,885. 2 Claims. (Cl. 188—78.)



1. A brake comprising a backing plate having a floating friction device mounted thereon which is arranged to shift to anchor at one or the other of its ends, in combination with a shaft supported by the backing plate and having a crank arm adjacent the ends of the friction device, a floating lever pivoted to the end of the crank arm and extending between the ends of the friction device, and oppositely extending links, one of which connects the end of the floating lever to one end of the friction device and the other of which connects an intermediate portion of the floating lever to the other end of the friction device.

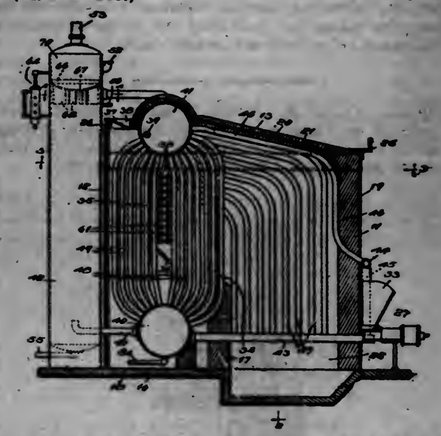
1,919,520. CONTROLLING MEANS. ISAAC M. LADDON, WILLIAM A. RING, and FRED W. HERMAN, Dayton, Ohio, assignors to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed June 20, 1927. Serial No. 199,981. 9 Claims. (Cl. 244—2.)

1. In an airplane, a control surface, wheels, brakes for said wheels, a centrally pivoted horizontal bar, means cooperating with said bar for operating said control surface, a pair of levers pivotally mounted end to end on



said bar, connections between said lever and said brakes, and pedals mounted on the ends of said bar and connected respectively to said levers.

1,919,521. MARINE BOILER. GEORGE LASKER, Chicago, Ill. Filed May 29, 1931. Serial No. 540,963. 5 Claims. (Cl. 122—235.)

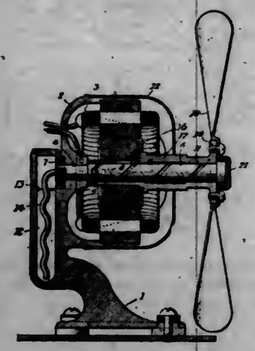


1. In a boiler system of the character described a furnace, an intake drum and a mud drum arranged within and adjacent the rear of the furnace one above the other in spaced relation, a back bank and a front bank of upstanding tubes communicating with said intake drum and mud drum, a header extending exteriorly of and adjacent the front wall of the furnace and headers arranged adjacent the sides of the fire box of the furnace providing communication between said mud drum and the header at the front of said furnace, a bank of tubes connected to said headers adjacent said fire box and arranged so as to connect with said intake drum and thus provide a communication between the said last mentioned headers and said intake drum, a stand pipe arranged adjacent said furnace, means providing communication between said drums and said stand pipe, a fluid outlet leading from said stand pipe, and means communicating with said outlet extending through the furnace in a position whereby the fluid is superheated, and thence discharged.

1,919,522. ELECTRIC MOTOR. CARL E. L. LIPMAN, Chicago, Ill., assignor to Lipman Patents Corporation, Chicago, Ill., a Corporation of Delaware. Filed Apr. 21, 1930. Serial No. 445,920. 3 Claims. (Cl. 172—36.)

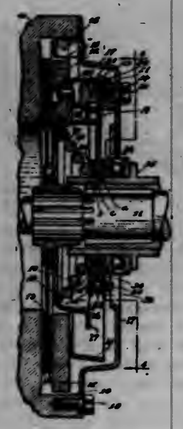
1. An electric motor comprising a support, a stator carried thereby, a stub shaft fixed at one end to said

support and projecting therefrom, a sleeve journalled on said shaft, a rotor carried by said sleeve in cooperative relation to said stator, means for preventing longitudi-



nal displacement of said sleeve relatively to said shaft, means for delivering lubricant between the shaft and the sleeve, and means for preventing the escape of lubricant so delivered at the free end of said shaft.

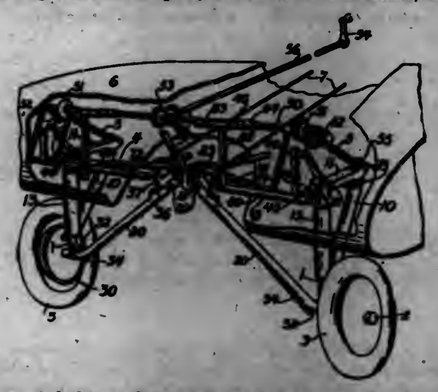
1,919,523. CLUTCH. ANDER J. MEYER, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed Dec. 13, 1930. Serial No. 502,189. 36 Claims. (Cl. 192—52.)



2. In a clutch, a driven element, a driving element, one of said elements being movably engageable and disengageable with the other to effect clutch engagement and disengagement, means for moving said movable element including a yielding laminated lever.

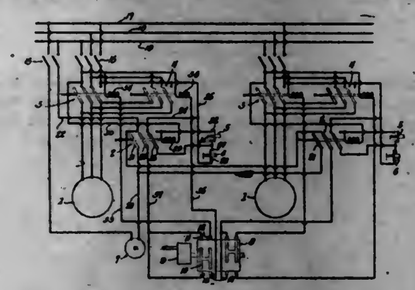
1,919,524. RETRACTABLE LANDING GEAR. ROBERT J. MINSHALL, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a Corporation of Washington. Filed Apr. 7, 1931. Serial No. 528,303. 38 Claims. (Cl. 244—2.)

9. In combination with an airplane structure, landing wheels, brakes associated therewith, means supporting said wheels from the airplane structure to move from operative position to a retracted position, and back, means for retracting and projecting said wheels, and means extending from the airplane structure to the brakes, and



connected thereto for operation of the brakes in retracted positions as well as the fully projected position of the wheels.

1,919,525. MOTOR CONTROL SYSTEM. STEPHEN J. NOGOSEK, West Allis, Wis., assignor to Square D Company, Detroit, Mich. Filed June 30, 1932. Serial No. 620,056. 6 Claims. (Cl. 172—240.)



1. A system of motor control comprising a plurality of main motors, a pilot motor, mechanism driven from said pilot motor for controlling said main motors and causing the operation of each main motor in alternate directions, and starting and stopping means for each main motor, said stopping means acting to stop said pilot motor when no main motor is operating.

1,919,526. UNTWISTED DIRECT PROCESS YARN WITH EVEN SHRINKAGE. OSKAR OPPENLAENDER, Elizabethton, and RICHARD ELSASSER, Johnson City, Tenn., assignors to American Glanzstoff Corporation, New York, N. Y., a Corporation of Delaware. Filed July 2, 1932. Serial No. 620,724. 2 Claims. (Cl. 18—54.)

1. In a process for treating artificial filaments, threads, etc., the steps of collecting them upon a spool or bobbin, retracting the winding surface so that the filaments etc. lie in a loose body upon the spool or bobbin, wet-treating the filaments, etc., covering the outer surface thereof with an impermeable covering, and then drying the yarn body from the inside of the spool or bobbin only.

1,919,527. TRAP. WALTER L. ORR, Los Angeles, Calif. Filed Oct. 11, 1930. Serial No. 488,045. 3 Claims. (Cl. 43—83.)

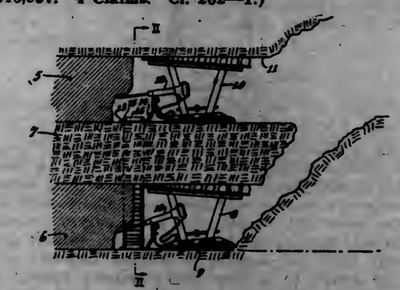
1. A jaw trap comprising a base, a jaw hinged thereon to coact with said base in sprung position and grip a cap-

tive, said jaw being a lever of the first class with a catch extension, a spring to move the jaw to capturing position, a trigger mechanism for securing the jaw in set position with said spring contracted including a trigger lever of the first class having a keeper at one end to engage said catch extension and an operating arm at the



other end and a bait lever of the first class having an end for a bait holder and the other end for engagement with said arm, said bait lever being positioned in contact relation to said arm to urge the bait holder to raised position and enable said trigger lever to be swung by said bait lever to release said jaw.

1,919,528. METHOD AND APPARATUS FOR MINING DOUBLE OR PARTED SEAMS. ERSKINE RAMSAY, Birmingham, Ala. Filed June 26, 1931. Serial No. 546,097. 4 Claims. Cl. 262—1.)



1. The herein described method of mining mineral seams separated by interposed strata of waste material, which consists in supporting both the strata and the mine roof adjacent to the working faces of the seams so as to hold them in relative position until ready for them to subside together, and conveying the mineral mined above the strata in one direction to the loading point and conveying the mineral mined below the strata in the opposite direction to a different loading point.

1,919,529. PNEUMATIC LIFT PLUNGER. NORMAN H. RICKER, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Oct. 5, 1931. Serial No. 567,076. 6 Claims. (Cl. 103—52.)



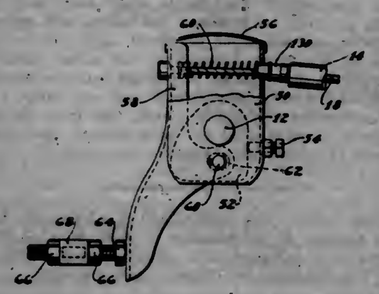
1. A swab plunger adapted to be moved within an eduction tube and including a cylindrical body member, a head below the same, an upwardly tapered valve seat below said body, a valve shaped to fit said seat, means to support said valve in open position below said seat, and radially projecting lands on said body adapted to engage the inner surface of said tube.

1,919,530. MEMORIAL MARKER. ANTHONY A. RIECK, Milwaukee, Wis., assignor of one-third to Irwin W. Cox, Denver, Colo. Filed June 26, 1931. Serial No. 547,038. 3 Claims. (Cl. 40—124.5.)



3. A memorial marker for graves, comprising a slab extending horizontally over the grave, inlay elements inlaid in the top surface of said slab and including ornamental elements and legend elements, bonding means for said elements and so united to said slab as to hold said elements thereto, a metal frame bounding the edges of said slab, reinforcing means embedded in said slab and secured to said frame, supporting posts in the ground at the sides of the grave, cross pieces secured to the bottom of said slab and having the end portions thereof extending beyond the sides of the slab and the grave and resting upon said posts for supporting the marker over the grave.

1,919,531. BRAKE. ADOLPH ROSNER, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois. Filed Nov. 22, 1930. Serial No. 497,431. 18 Claims. (Cl. 74—89.)

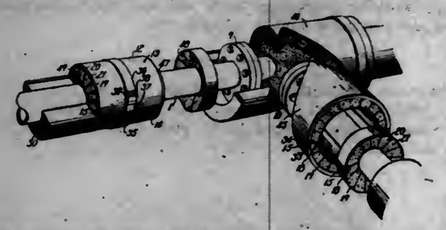


18. In a brake, in combination with a backing plate, a rotatable brake applying member mounted thereon, means comprising a conduit for reacting in compression upon said member in one direction, and means comprising a tension element in said conduit for exerting a tension upon said member in a parallel opposite direction, whereby there is no shifting moment acting upon the member while both forces tend to rotate the member in the same direction.

1,919,532. INSULATING COVERING. WILLARD E. RYDER and WALTER D. REBER, Kansas City, Mo., assignors to Standard Asbestos Manufacturing and Insulating Co., Kansas City, Mo., a Corporation of Missouri. Filed Jan. 4, 1929. Serial No. 330,268. 4 Claims. (Cl. 154—44.)

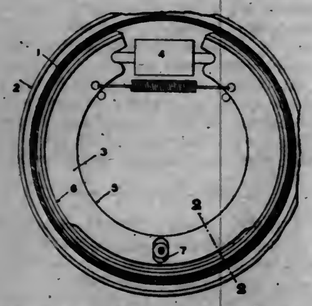
1. In an insulating cover of the character described, a segment comprising spaced walls, spaced webs each comprising a plurality of superposed sheets of material

bent back and forth to form connected ribs for supporting the walls in spaced relation, and a sealer comprising cementitious material having heat-resistant quali-



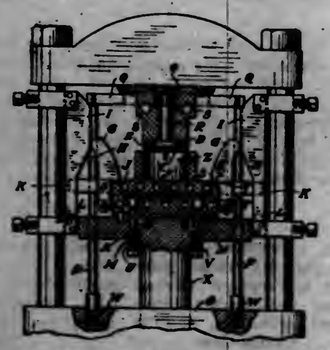
ties located between the said superposed sheets to connect the sheets and form spaced ribs having double thickness.

1,919,533. BRAKE BAND. STEVE SCHNELL, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a Corporation of Delaware. Filed Feb. 26, 1932. Serial No. 595,260. 3 Claims. (Cl. 188—250.)



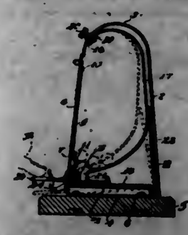
1. A substantially 360 degree brake band comprising a lining carrying flange and a reinforcing web extending throughout the length of the band, said web being so secured to the flange throughout the major portion of the length of the band as to prevent relative movement in a radial direction between said web and flange during brake application but said web being free from the flange throughout a substantial arc intermediate the ends of the band to permit such relative movement.

1,919,534. MOLDING APPARATUS. LOUIS E. SHAW, East Orange, N. J., assignor to John Stogdell Stokes, Spring Valley Farms, Pa. Filed Nov. 3, 1928. Serial No. 316,967. 35 Claims. (Cl. 18—17.)



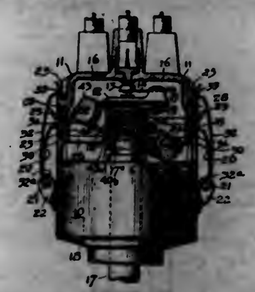
1. In a device of the class described, the combination of a press having fixed structural parts including a pair of standards, a connecting head, a reciprocating ram provided with a platen movable between the standards, a pair of cams adjustably mounted on said standards, each cam being provided with a mold stop, a two-part mold with the parts co-acting to provide a mold cavity, the lower mold part being carried by the platen and the upper mold part being adapted to be supported from said stops, means operated by said cams for locking the mold parts together, and a plunger fixedly secured to the head, said upper part of the mold having a pressure chamber adapted to receive the plunger as said upper part is moved by the platen and lower mold part into engagement with the plunger, and said upper part being provided with a passage placing the pressure chamber and mold cavity in intercommunication.

1,919,535. DENTAL ROLL DISPENSER. IVAR E. SIQVELAND, St. Paul, Minn. Filed Apr. 16, 1931. Serial No. 530,485. 2 Claims. (Cl. 312—33.)



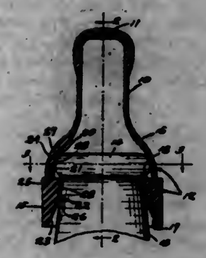
1. An article dispensing device, comprising a container having a dispensing opening therein, a closure member normally covering said opening, a plate mounted interiorly of a wall of said container opposite said opening, the lower end of said plate being curved outwardly toward said opening and having a portion thereof spaced inwardly from said opening a distance sufficient to receive an article to be dispensed forwardly thereof, and an operating lever having a portion thereof extending upwardly between said plate and said container wall opposite said opening, said lever being connected to said closure member to simultaneously remove said closure member from said opening and to move said plate toward said opening to eject an article positioned forwardly of said plate.

1,919,536. ENGINE CONTROL MEANS. MERLIN A. STICHLBER, Kansas City, Mo., assignor to The Nafziger Corporation, Kansas City, Mo., a Corporation of Missouri. Filed Feb. 6, 1930. Serial No. 426,271. 5 Claims. (Cl. 123—198.)



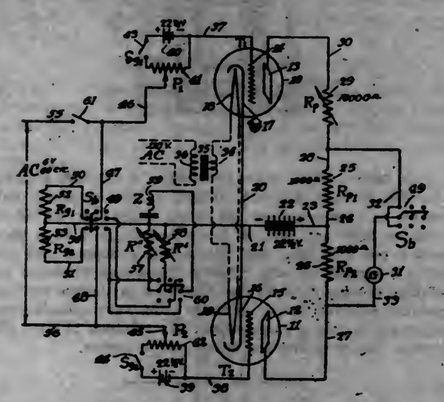
5. The combination with an internal combustion engine having a timer shaft, timer mechanism, and a housing for the timer mechanism, of an electrical centrifugal governor device in the form of an attachment having means for readily associating same with the timer mechanism and within said housing for operation by the timer shaft, with means for completing an electric circuit by the governor device when the latter reaches a predetermined speed.

1,919,537. NURSERY NIPPLE. ARTHUR J. STOCK, Jr., Cleveland, Ohio. Filed June 14, 1930. Serial No. 461,127. 3 Claims. (Cl. 128—252.)



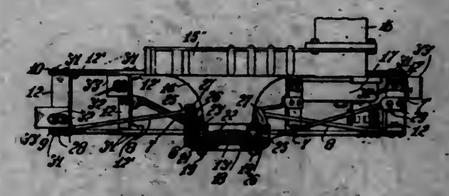
1. In combination with a bottle; a nipple having a bottle engaging portion and a hollow nipple section; and a capillary valve comprising means defining an elongated capillary channel divided by a recess into sections to form a plurality of capillary channels in series, communicating with said hollow nipple section, and operable to admit air to said hollow nipple section and to check egress of liquid therefrom.

1,919,538. PROCESS AND APPARATUS FOR MAKING ELECTRICAL MEASUREMENTS. GUY A. STONE, Ann Arbor, Mich., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 27, 1931. Serial No. 571,375. 22 Claims. (Cl. 175—183.)



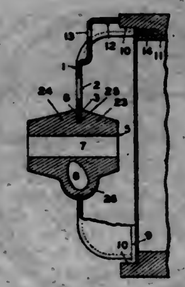
1. In an apparatus of the class described, two vacuum tubes each having a filament, a cathode, a grid, and a plate, means connecting the cathodes together and each cathode to its corresponding plate through a common battery and equal resistances, one plate circuit thus formed also including a variable resistance, a galvanometer shunted across the equal resistances in the plate circuits, means to heat the filaments, means to separately adjust the potential between each grid and its cathode to the cut-off point, means for placing an A. C. potential in the grid circuit of one tube and an equal A. C. potential in the grid circuit of the other tube including equal impedances in the respective grid circuits across which a potential is applied, means alternative to the last including a known impedance in one circuit and an unknown impedance in the other circuit across which an A. C. potential is applied, and means similar to the last but connecting the unknown impedance in the opposite circuit.

1,919,539. WHEEL. CHARLES H. WHITE, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Dec. 8, 1928. Serial No. 325,216. 12 Claims. (Cl. 301—52.)



1. In a wheel of the class described, the combination of a hub, two laterally spaced side ring members, cross bars extending between said ring members and defining therewith an open-tread rim portion, and two series of spokes extending between said hub and said rim portion, one series of spokes being secured at their outer ends to said cross bars, and the other series of spokes being secured at their outer ends to the side ring member on the outer side of the wheel.

1,919,540. MACHINE CASING ELEMENT AND METHOD OF MAKING SAME. OTTO WULFERT, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a Corporation of Delaware. Filed May 28, 1931. Serial No. 540,623. 6 Claims. (Cl. 29—155.5.)



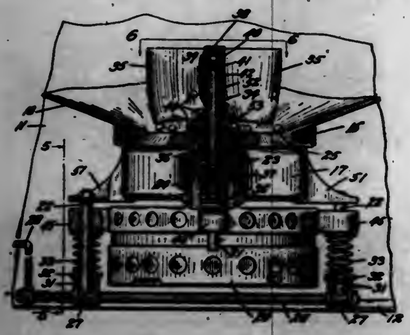
1. A method of making an end plate for a dynamo-electric machine which comprises forming a sheet metal member with an opening therethrough and casting a body of material into the opening and over both surfaces of the portion of the sheet metal member adjacent the opening, forming a shaft receiving opening through said cast material, and machining the circumference of the sheet metal member concentric with said last mentioned opening.

6. An end plate for a machine casing comprising a sheet metal member having an opening therethrough, a bearing body cast in said opening and embracing the surfaces of the sheet metal member adjacent said opening, said bearing body having a shaft receiving opening extending therethrough, and an oil reservoir formed in said bearing body and communicating with said shaft receiving opening.

1,919,541. DISHWASHER. HAROLD G. DAVIS, Denver, Colo. Filed Aug. 3, 1931. Serial No. 554,687. 13 Claims. (Cl. 141—9.)

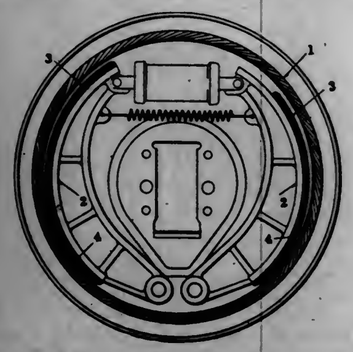
1. A dishwashing machine comprising: a bowl having a drainage opening in its bottom; a valve chamber below said opening; a drainage conduit leading from said valve chamber; a motor positioned below said valve chamber; a drain valve arranged to close said opening; means extending from said motor into said valve chamber for

supporting said drain valve; an impeller positioned above said drain valve; a shaft connecting said motor with said impeller, said shaft passing through said valve support-



ing means; and means for raising and lowering saiid motor so as to cause said drain valve to open and close said drainage opening.

1,919,542. BRAKE. BURNS DICK, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a Corporation of Delaware. Filed Dec. 2, 1927. Serial No. 237,165. 28 Claims. (Cl. 188—78.)



1. In braking apparatus, a brake shoe pivoted at one end and having an arcuate surface, and a brake lining secured to said surface, the part of the lining nearest the pivoted end of the shoe having less susceptibility to wear than the part furthest removed therefrom.

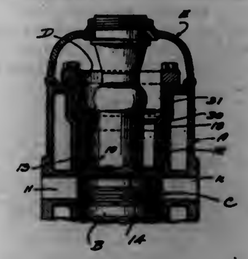
1,919,543. MEANS FOR EFFECTING THE BLOODLESS REMOVAL OF DISEASED TISSUE. LEON LEO DOANE, Butler, Pa., assignor to McIntosh Electrical Corporation, Chicago, Ill., a Corporation of Delaware. Filed Mar. 29, 1930. Serial No. 439,880. 3 Claims. (Cl. 174—89.)

1. Means for retracting pillars from tonsillar tissue and coagulating the tonsillar tissue, consisting of the combination of an inactive metal electrode having a rigid pillar retracting portion of metal for connection with a first electrical conductor connected with one terminal of a source of high frequency current of the d'Arsonval type, and an active electrode comprising an insulated metal rod exposed at its end for application to tissue to be coagulated and for connection with a second electrical conductor connected with the other terminal of said source of current, said electrodes being independent of each other mechanically and cooperating in the hands of an operator to effect tissue retraction and coagulation of limited tissue areas adjacent the active electrode, whereby separation and retraction of the tissues may be effected by the inactive electrode independently of the active electrode and



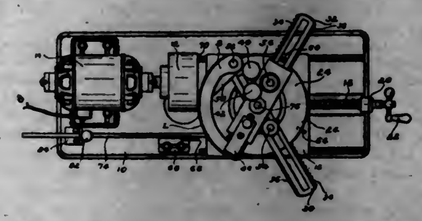
for any tissue retracting and separating position of said inactive electrode, cooperation of said electrodes may be had to coagulate desired tissue.

1,919,544. INTERNAL COMBUSTION ENGINE. JAMES O. FINK, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed Nov. 17, 1930. Serial No. 496,107. 32 Claims. (Cl. 123—81.)



1. A sleeve valve engine comprising a cylinder structure provided with a piloting means, a piston, sleeve valve means, a cylinder head structure depending within the cylinder bore and spaced therefrom to provide a sleeve pocket for receiving said sleeve valve means, and pilot portion carried by said cylinder head and engaging said piloting means to locate the head in a predetermined fixed position relative to the cylinder bore, said cylinder head structure having a recessed portion bounded by said pilot portion for receiving the sleeve valve means.

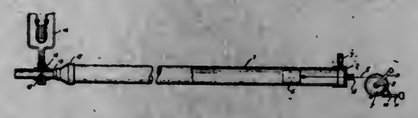
1,919,545. BRAKE SHOE GRINDER. MARTIN M. FISHER, Seattle, Wash. Filed Sept. 2, 1930, Serial No. 479,145. Renewed Dec. 17, 1932. 4 Claims. (Cl. 51—124.)



1. A brake shoe grinder consisting of a base; grinding means mounted upon said base; a carriage mounted to move longitudinally of said base; longitudinally disposed

guides for said carriage; a holder base mounted upon said carriage in a manner to permit partial revolution about a centrally disposed, vertical axis; two adjustable arms mounted to slide, longitudinally, across said holder base, one arm adapted to receive a shoe positioning pin, and the other provided with clamp means adapted to secure the free end of a brake shoe, the two arms adapted to co-act to hold a brake shoe in proper grinding position; and separate means adapted to provide a slow motion movement to each of said arms.

1,919,546. METHOD AND APPARATUS FOR TESTING INTERNAL DIAMETER OF TUBES. HAROLD W. FLETCHER, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed May 13, 1929. Serial No. 362,838. 7 Claims. (Cl. 73—51.)



1. A device to test the inner gage of tubes comprising a gage piston formed to fit the tube loosely, an inlet adapted for attachment to said tube whereby pressure fluid may be impressed upon said piston to move said piston through said tube, and means adapted to be attached to the downstream end of said tube to indicate variations in the amount of fluid leaking past said piston.

5. A method of testing the internal diameter of tubes comprising moving a loosely fitting piston through said tube, noting the leakage of fluid past said piston as it is moved, and calculating variations in said diameter through the amount of leakage past said piston at different points in said tube.

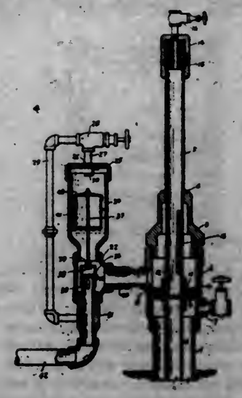
1,919,547. PNEUMATIC SWAB PLUNGER. HAROLD W. FLETCHER, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Oct. 27, 1931. Serial No. 571,353. 6 Claims. (Cl. 103—52.)



1. A pneumatic swab plunger including a cylindrical tubular body, a valve seat at the lower end thereof, a valve to fit said seat, a support for said valve when said valve is open, and a choke device in said body above said valve adjustable to impede the passage of fluid through said plunger to the amount desired.

1,919,548. GAS CHOKE FOR PLUNGER LIFT DEVICES. HAROLD W. FLETCHER, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Mar. 5, 1932. Serial No. 596,977. 6 Claims. (Cl. 103—52.)

1. The combination with a plunger lift device having an eduction tube, a pneumatically operated swab therein, and a flow line therefrom, of a valve in said flow line, a constricted bypass past said valve, and automatic means



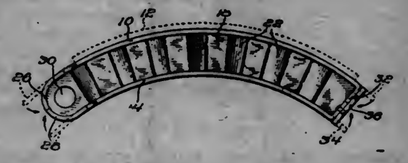
to open said valve to allow passage of liquid, and to permit said valve to close when said liquid has passed.

1,919,549. TILE CLEANING APPARATUS. EDWARD FRYSLIE, Iowa Falls, Iowa. Filed Sept. 21, 1931. Serial No. 563,974. 2 Claims. (Cl. 15—104.30.)



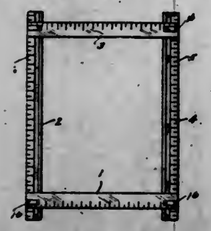
1. A cleaning tool for pipes and the like comprising an open frame, a centrally arranged keel bar extending longitudinally of the frame and having a considerable portion projecting below the plane thereof, a cleaning blade pivoted on an axis transversely of the frame and having one margin loosely engaging the keel bar for limiting downward movement of the blade on its pivot, and stop means on the frame for limiting upward pivotal movement of the blade, said blade being curved on its free margin to correspond substantially to curvature of the pipe, the free margin of the blade being notched for the keel bar to permit close contact of the curved margin with the pipe surface.

1,919,550. BRAKE SHOE. RUDOLPH A. GOEPFRICH, South Bend, Ind., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a Corporation of Delaware. Filed Mar. 15, 1928. Serial No. 261,714. 14 Claims. (Cl. 188—250.)



1. A brake shoe comprising a rim portion and a web portion integral with the rim portion at spaced intervals alternating with intervals in which the two portions are structurally separate, the web portion being displaced crosswise of the shoe, with respect to its position where integral with the rim portion, where it is structurally separate from the rim portion.

1,919,551. MECHANIC'S SQUARE. CLAUDE GRIFFIN, Portland, Oreg., assignor of one-half to Samuel Sunserie, Portland, Oreg. Filed Apr. 15, 1931. Serial No. 530,291. 1 Claim. (Cl. 33—114.)



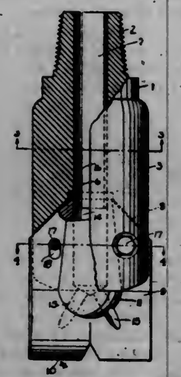
A mechanic's square of the class described, comprising two pairs of elongated graduated body elements, each element of one pair of said elements having a dovetail groove running longitudinally therein, each of the other pair of said elements having a plurality of dovetails offset therefrom, said dovetails being disposed upon the elements at varying angles and adapted to slidably move within the grooves so that definite angles may be formed between two connected elements or an extended linear rule may be formed when desired.

1,919,552. ATTACHING GROMMETS TO METAL PLATES. HUGO S. HASSELQUIST, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed June 26, 1930. Serial No. 463,963. 5 Claims. (Cl. 29—148)



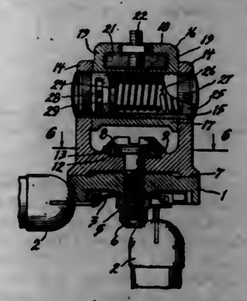
1. A method of securing a boss to a metal plate which comprises providing a boss having a body portion and an inwardly tapering shank portion extending from one of the faces of said body portion, inserting the shank of said boss into a perforation in a plate having a thickness greater than the length of said shank, and applying pressure to the body portion of said boss to cause the same to become seated in the metal plate to a depth sufficient to displace the metal about the perforation in the plate into engagement with the tapered walls of said shank.

1,919,553. DETACHABLE BLADE DRAG BIT. HERBERT J. HAWTHORNE, Conroe, Tex. Filed Mar. 11, 1933. Serial No. 660,411. 6 Claims. (Cl. 255—61.)



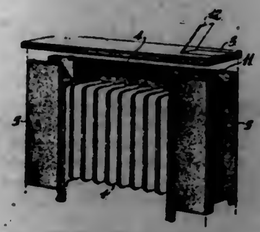
1. A bit of the character described comprising a bit body, a detachable blade having its upper end tapered, a head axially of said blade tapered upwardly to a shoulder, a socket in said body to receive said head, slots on each side of said socket shaped to form a wedging fit with said blade, said head and bit body being constructed with registering openings forming a passage for flushing fluid axially thereof, said head having channels leading to the lower cutting edge of said blade, and means to form a seal between said shoulder and said body about said passage.

1,919,554. TRIPOD HEAD OR THE LIKE. ALBERT S. HOWELL, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 28, 1929. Serial No. 415,900. 4 Claims. (Cl. 248—47.)



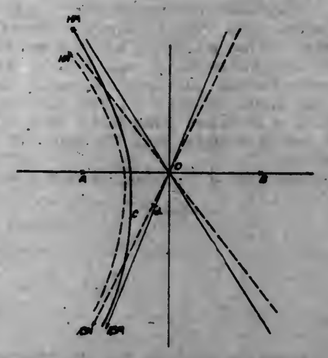
2. In a tripod head or the like the combination with a head member provided with spaced coaxially bored arms, of a carrier member, an axially bored cylindrical bearing member extending across between said arms and engaged in the bores thereof and secured therewith and having a bearing engagement in a bore through said carrier member between said arms for forming a pivotal connection between said members, a helical torsion spring in the bore of said bearing member, a plug engaged in the bore of said bearing member and fixed with said head member and bearing member and having one end of said spring secured therewith, a second plug rotatably engaged in the bore of said bearing member and having the other end of said spring secured thereto, and a pin engaged in a diametrically disposed bore through said second plug and extending through angular slots through said bearing member and secured with said head member.

1,919,555. RADIATOR CABINET. FREDRIK W. HVOSLEF, Kohler, Wis. Filed Jan. 12, 1933. Serial No. 651,349. 6 Claims. (Cl. 237—79.)



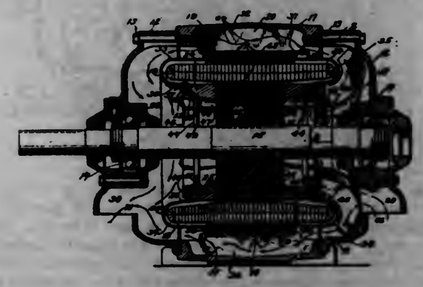
2. A cabinet for a radiator having beaded end sections comprising a pair of end pieces, means for attaching said end pieces to the radiator, said attaching means comprising a gain in said end piece adapted to receive the bead of the radiator, and means for holding said gain in juxtaposition to said bead, and a top adapted to fit and rest upon said end pieces.

1,919,556. PROCESS FOR RADIO DIRECTION, LOCATING OBSERVATION, AND THE LIKE. FRANCOIS LOUIS EDOUARD JACQUEMIN, Paris, France, assignor to Societe Anonyme des Ondes Dirigees. Filed Apr. 22, 1927, Serial No. 185,883, and in France May 21, 1926. Renewed June 1, 1932. 10 Claims. (Cl. 250—11.)



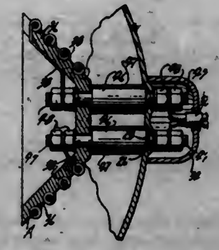
1. The method of determining the position of an object which comprises emitting sustained radio waves of the same wave length from two spaced points, and modulating radio waves emitted from only one of said points to form a special interference pattern having at least one nodal axis.

1,919,557. SHIELDED MOTOR ASSEMBLY. CARL E. JOHNSON, Pasadena, Calif, assignor to Sterling Electric Motors, Los Angeles, Calif., a Corporation of California. Filed Aug. 22, 1928. Serial No. 301,296. 7 Claims. (Cl. 172—36.)



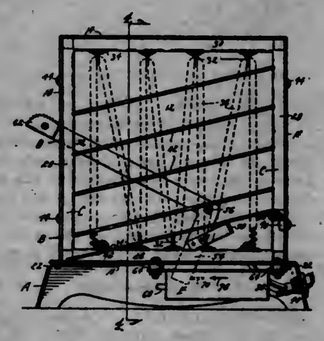
1. In an electrical motor, the combination of: a stator having a winding and having a bore; a rotor adapted to rotate in said bore; a shaft on which said rotor is supported; shields arranged at the opposite ends of said stator and said rotor, said shields being so positioned as to enclose said winding and the space in said bore around said rotor; annular rings having grooves normal to the axis of rotation of said rotor and near the periphery of said rotor at the ends thereof, the ends of said rotor being exposed between said rings and said shaft; flanges on said shields, extended into said grooves; a housing surrounding said stator and said rotor and forming a circulation space around said stator and outside said shields; and circulating means for creating a circulation in said circulation space.

1,919,558. ELECTRIC HEATER. ERNEST S. JOHNSON, Webster City, Iowa, assignor to Knapp-Monarch Company, Webster City, Iowa, a Corporation of Missouri. Filed May 28, 1930. Serial No. 456,526. 1 Claim. (Cl. 219—34.)



A heater of the class described, comprising a metal reflector, a pair of shouldered terminal posts secured thereto by nuts, insulating sleeves through said reflector and against the shoulders of said posts and against said nuts, a truncated cone-shaped heating element having its smaller end adjacent the reflector, said element being detachably supported upon said terminal posts, said element including an electric resistance wire with its ends in contact with said terminal posts as and for the purposes stated.

1,919,559. ELECTRIC BREAD TOASTER. ERNEST S. JOHNSON, Webster City, Iowa, assignor to Knapp-Monarch Company, Webster City, Iowa, a Corporation of Missouri. Filed May 28, 1930. Serial No. 456,527. 4 Claims. (Cl. 53—5.)

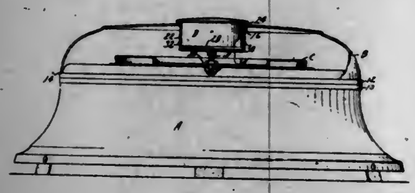


1. A bread toaster comprising a casing having an open end, heating means within said casing and adjacent the sides thereof, a rectangular support for a slice of bread having a transverse pivot, said support being normally arranged in horizontal position during the toasting operation and swinging about its pivot to an inclined position after completion of the toasting operation for discharging a slice of bread longitudinally off said support and endwise through said open end and grid wires in said casing arranged substantially parallel with said support when so inclined.

1,919,560. WAFFLE IRON ASSEMBLY. ANDREW S. KNAPP, Belleville, Ill., assignor to Knapp-Monarch Company, Belleville, Ill., a Corporation of Missouri. Filed Mar. 5, 1932. Serial No. 597,079. 3 Claims. (Cl. 53—10.)

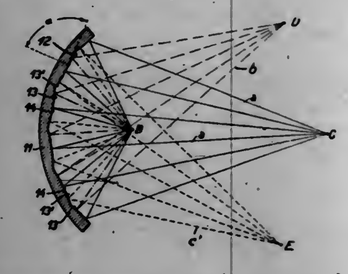
1. A cooking utensil assembly including a casing element having its bottom open and an opening centrally arranged in its top, a cooking grid for the open bottom of

said casing, a threaded member secured to said grid and projecting upwardly therefrom, a cup-like member received in said central opening and having threads for connection with said threaded member and portions for



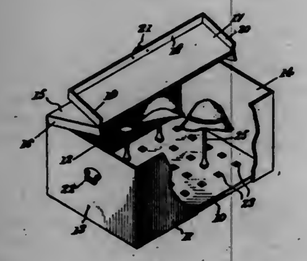
engaging said casing whereby to retain said casing and said grid assembly relative to each other, and a self-contained, unitary indicator mounted wholly within said cup-like element.

1,919,561. CONCAVE MIRROR. GUSTAV KÖGEL, Baden-Baden, Germany. Filed Aug. 20, 1930, Serial No. 476,469, and in Germany Apr. 29, 1929. 6 Claims. (Cl. 88—1.)



1. A concave mirror provided at its main reflecting surface with additional reflecting surfaces spaced from each other so that strips of the main reflecting surface of the mirror are preserved between the additional reflecting surfaces, the latter being inclined relatively to the main reflecting surface in directions and at angles for producing a plurality of lateral images, the additional reflecting surfaces inclined to the same side of the main axis of the mirror being disposed so as to produce a single image.

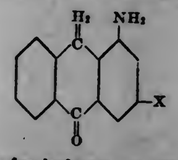
1,919,562. HAT STORAGE BOX. EDGAR KRANZFELDER, Washington, D. C. Filed July 23, 1931. Serial No. 552,761. 1 Claim. (Cl. 206—8.)



A simple and flexible hat chest for the storage of hats when not in use as a protection from dust, moths, etc. comprising a chest body consisting of a bottom, sides and ends, pegs upstanding in numerous intersecting rows from the bottom, slender hat stands having wide socketed bases to fit removably over a selected pin, the stands being of variable height to permit the storage of a large number of hats in small space by superposition, and a removable cover for the chest.

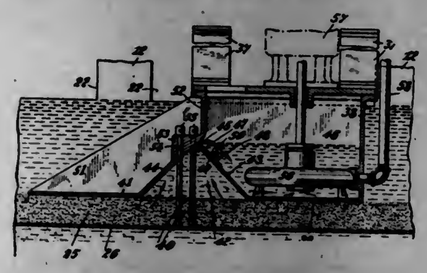
1,919,563. PROCESS OF PREPARING 1-AMINO-10-ANTHRONES AND THE PRODUCTS OBTAINABLE THEREBY. GEORG KRÄNZLEIN and WALTER BROEKER, Frankfort-on-the-Main-Höchst, and ARTHUR WOLFRAM, Frankfort-on-the-Main-Rodelheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed July 8, 1932, Serial No. 621,518, and in Germany July 17, 1931. 15 Claims. (Cl. 260—60.)

13. The compounds of the following general structure:



wherein X stands for hydrogen or alkyl, forming on exposure to air or addition of an oxidising agent the corresponding anthraquinone compounds.

1,919,564. MEANS FOR CLEANING SEWAGE FILTER BEDS. WILLIAM C. LAUGHLIN, Kew Gardens, and ABRAHAM B. ASCH, Brooklyn, N. Y., assignors to Filtration Equipment Corporation, New York, N. Y., a Corporation of Delaware. Filed July 28, 1931. Serial No. 553,527. 5 Claims. (Cl. 210—128.)

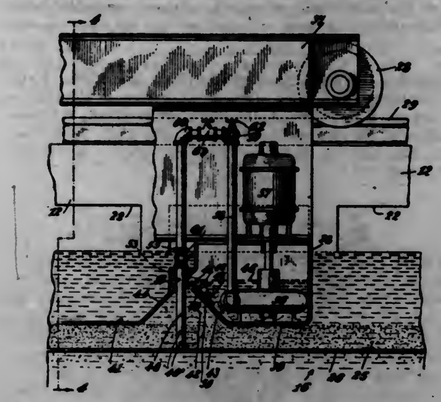


1. A filter bed cleaning device including a body forming a barrier for producing a cleaning area within the bed, a liquid-receiving chamber provided in the body, an inlet channel to the chamber for the passage thereto of liquid from the cleaning area, comprising a wall rising to a level well above the bottom of the chamber and over which the liquid escapes to fall into the chamber, and mechanical means carried by the body for stirring the bed to release the dirt therein into the liquid destined to pass through the channel and into said chamber.

1,919,565. MEANS FOR CLEANING SEWAGE FILTER BEDS. WILLIAM C. LAUGHLIN, Kew Gardens, and ABRAHAM B. ASCH, Brooklyn, N. Y., assignors to Filtration Equipment Corporation, New York, N. Y., a Corporation of Delaware. Filed July 28, 1931. Serial No. 553,528. 8 Claims. (Cl. 210—128.)

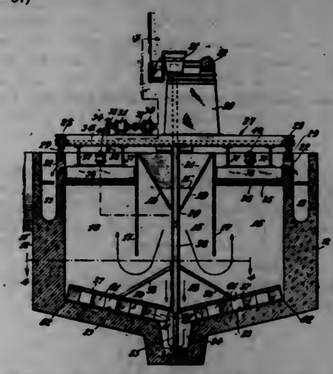
7. In a filter bed system, the combination with a filter bed, of a tank traveling parallel with the surface of the bed and having a liquid receiving chamber above its bottom, an inlet to the chamber extending upwardly from the exterior bottom of the tank and having a wall over which

liquid can flow to fall into the chamber, means for causing a tide of liquid which is to be filtered to move upwardly through said bed and to a level substantially above the



flow over said wall, and means carried by the tank for agitating and washing the sand below the bottom of the tank, said means being effective below said inlet.

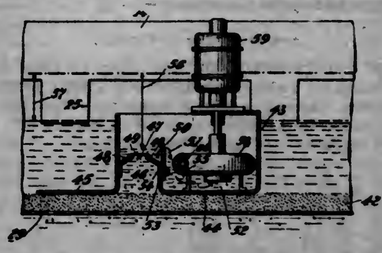
1,919,566. SEWAGE CLARIFICATION TANK AND CLEANING MACHINE THEREFOR. WILLIAM C. LAUGHLIN, Kew Gardens, and ABRAHAM B. ASCH, Brooklyn, N. Y., assignors to Filtration Equipment Corporation, New York, N. Y., a Corporation of Delaware. Filed July 28, 1931. Serial No. 553,529. 6 Claims. (Cl. 210—5.)



2. Cleaning apparatus for a sewage system, comprising a sedimentation tank, a longitudinal filter bed and travelway located within the tank and forming a bottom chamber therein, said travelway being in communication with the bottom chamber, a carriage traveling on the tank longitudinally of the bed and travelway and above the same, a frame member extending downwardly from the carriage through said travelway to move in the latter, and means carried by the member for collecting the solids which settle in the bottom chamber.

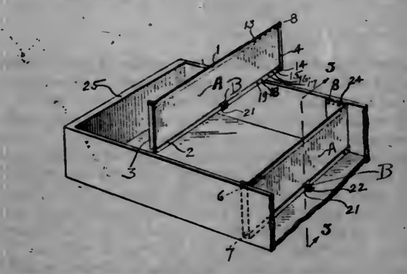
1,919,567. FILTER BED CLEANING DEVICE FOR SEWAGE CLARIFICATION TANKS. WILLIAM C. LAUGHLIN, Kew Gardens, and ABRAHAM B. ASCH, Brooklyn, N. Y., assignors to Filtration Equipment Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 4, 1931. Serial No. 555,054. 12 Claims. (Cl. 210—128.)

1. A device for cleaning filter beds including, in combination, a separating chamber into which the dirty liquid from the bed may pass, and means for agitating a portion of the bed to translate the dirt therein into dirty liquid, said separating chamber comprising a tank for



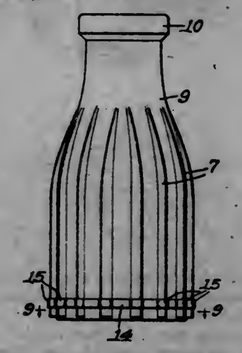
receiving the dirty liquid and having an upwardly extending inlet leading to its interior, and means for regulating the height at which the dirty liquid will pass from the inlet into the interior of the tank.

1,919,568. PARTITION AND WALL. MARSHALL K. MCCOSH, Reisterstown, Md. Filed Oct. 19, 1932. Serial No. 638,628. 2 Claims. (Cl. 45—7.)



1. A sheet metal partition comprising a relatively thin metal sheet having a pair of opposite side edges reenforced with one or more additional thicknesses of sheet metal for providing lateral stiffness against bending, and a series of transversely aligned pairs of indentations formed across said reenforced side edges for facilitating the bending of said partition along a selected pair of indentations in fitting the partition in place.

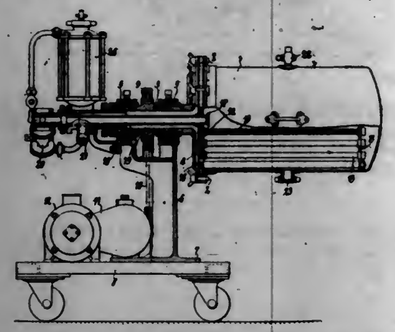
1,919,569. PAPER CONTAINER. RUTH OLIVER, New York, N. Y., assignor to Lydia B. Koch, New York, N. Y. Filed July 21, 1931. Serial No. 552,237. 8 Claims. (Cl. 225—5.6.)



1. A paper container having an annular series of longitudinal crimps providing stiffening ribs, an end closure inserted within the body and having a crimped portion

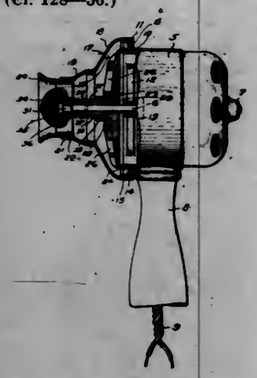
seated in and surrounded by the series of longitudinal crimps, and means outside of the body for holding the interfitting portions of the crimps on the body and the inserted closure against spreading.

1,919,570. FILTRATION. JOSEPH ALLEN PICKARD, London, England, assignor to Metafilters (1929) Limited, Middlesex, England, a British Company. Filed Feb. 9, 1931, Serial No. 514,571, and in Great Britain Feb. 10, 1930. 2 Claims. (Cl. 210—200.)



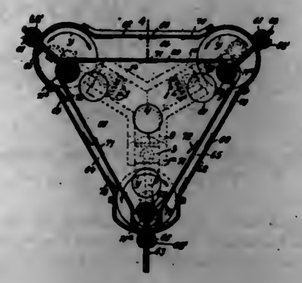
1. A filter comprising a support, a hollow shaft mounted thereon for rotation about a horizontal axis, a filter chamber secured to and communicating with said shaft, a plurality of inwardly draining filter units of the multiple-plate assembly type grouped on horizontal axes within said chamber, means within said chamber supporting said units at their ends, means for bodily rotating the chamber together with said units, means for conducting the fluid to be filtered through said shaft into the chamber and about said units, and means for conducting the filtered fluid away from the interior of said units and out of said chamber during rotation, said means connecting with a conduit within the chamber said conduit being freely suspended therein with its lower open end at substantially the lowest point in the said chamber.

1,919,571. MASSAGE DEVICE. JAMES H. PINKSTON, Tulsa, Okla. Filed Mar. 21, 1932. Serial No. 600,342. 4 Claims. (Cl. 128—56.)



4. A massage device comprising a motor including a casing and an armature shaft extending longitudinally of the casing, a connecting unit including a coupling ring secured to the casing and a hub bearing for receiving the armature shaft, an outer coupling ring surrounding the first named coupling ring in spaced relation, means connecting the first named coupling ring and outer coupling ring for affording air passages between the same, a shield having one end secured to the outer coupling ring, a fan element mounted upon the armature shaft and disposed within the shield, a vacuum cup secured to the forward end of the shield, and a massage element connected with the armature shaft and arranged within the vacuum cup.

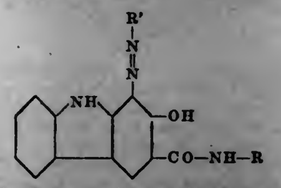
1,919,572. INTERNAL COMBUSTION ENGINE. PAUL SCHMALJOHANN, Kiel, Germany, assignor to Centra Handels- & Industrie A.-G., Chur, Switzerland, a Corporation of Switzerland. Filed Jan. 24, 1931, Serial No. 511,052, and in Germany Jan. 31, 1930. 6 Claims. (Cl. 123—53.)



4. An internal combustion engine, comprising a plurality of cylinders having a common combustion chamber, pistons reciprocating in said cylinders, crank shafts connected one with each of said pistons, subsidiary cranks for said crank shafts, a frame connecting said subsidiary cranks for insuring rotation of all the crank shafts in the same direction, a frame on which said cylinders are mounted, said frames being formed one with a rectangular case and the other one with a slide dividing said case into two chambers and provided with a section and a pressure chamber, and slots in said slide adapted alternately to establish communication between said suction and pressure chambers within the slide and said chambers within the rectangular casing.

1,919,573. AZODYESTUFF. ALBERT SCHMELZER, FRITZ BALLAUF, and FRIEDRICH MUTH, Elberfeld, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 14, 1929, Serial No. 407,275, and in Germany Nov. 16, 1928. 10 Claims. (Cl. 260—86.)

1. As new products water-insoluble azodyestuffs of the probable general formula:



wherein R stands for a radical of the benzene or naphthalene series and R_1 stands for the residue of a diazotizable aromatic or heterocyclic amine, being very valuable azodyestuffs of yellow to black shades and yielding upon reduction with hydrochloric acid and stannous chloride 1 mol of a 1-amino-2-hydroxy-carbasole-3-carboxylic acid arylamide and 1 mol of an aromatic or heterocyclic amine.

1,919,574. CLOSURE MEANS FOR TINS. ERNST SCHMIDT, Berlin, Germany. Filed Oct. 2, 1930, Serial No. 485,992, and in Germany Oct. 5, 1929. 1 Claim. (Cl. 220—60.)

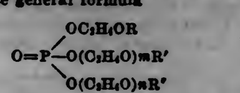
In combination in a tin having a body portion and a lid, the upper edge of the wall of the body portion being bulged outwardly to form a peripheral outwardly disposed rib terminating in a free upper edge, said lid having a flat top portion of relatively small diameter and a skirt portion of substantially greater diameter than the flat top portion, the skirt portio of the lid being bulged outwardly to form a peripheral outwardly disposed rib substantially below the juncture of the skirt with the flat top of the lid, said skirt portion extending below



the rib therein and terminating in a flared or enlarged periphery, said peripheral ribs being completely circular and cooperating with each other and with the confined or reduced flat top and the flared skirt of the lid to provide a readily formed completely tight closure readily opened by applying pressure to the conically widened edge of the lid at two oppositely disposed points in order to permit the lid to be lifted.

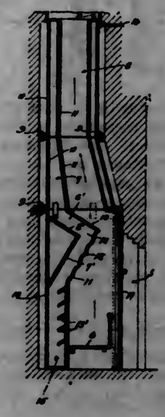
1,919,575. PLASTIC MASS. CURT SCHÖNBURG, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Original application filed Apr. 8, 1930, Serial No. 442,689, and in Germany Apr. 8, 1929. Divided and this application filed July 9, 1931. Serial No. 549,809. 8 Claims. (Cl. 106—37.)

1. A composition of matter comprising a cellulose derivative and a neutral phosphoric acid ester of a monoglycol ether of the general formula



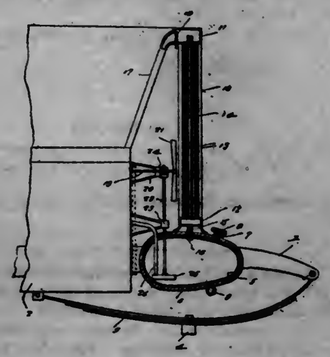
wherein R, R' and R'' represent alkyl halogenoalkyl or phenyl, and m and n stand for 0 or 1.

1,919,576. HEATING SYSTEM. ERNST JULIUS SCHROEDER, Americus, Ga. Filed Dec. 5, 1930. Serial No. 500,340. 1 Claim. (Cl. 126—132.)



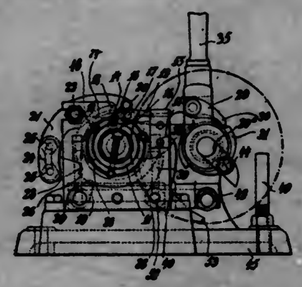
A fire place construction comprising a body portion fitted within a fire place opening, said body portion including a lower section, an upper section and an intermediate section, a grate in the lower section, said sections having spaced rear walls providing a water passageway, the passageway extending across the entire back of the body portion, the upper portions of the rear walls of the lower section extending forwardly over the grate, the forwardly extended portion being corrugated increasing the heating surface thereof, spaced inwardly and downwardly extended flanges extending into the passageway at a point below the corrugated portion, to control upward flow of water through the passageway, and inlet and outlet pipes communicating with the passageway.

1,919,577. INTERNAL COMBUSTION ENGINE COOLING SYSTEM. WILLIS J. SMITH, Ottumwa, Iowa. Filed Nov. 20, 1931. Serial No. 576,400. 5 Claims. (Cl. 123—174.)



1. In an internal combustion engine cooling system including an engine water jacket and a radiator, an insulated reservoir supported below the radiator, a gravity drain from the radiator to the reservoir, a pipe leading from the water jacket into the reservoir, a second pipe leading from the water jacket to the upper part of the radiator, means for circulating water kept warm in the reservoir through the first pipe, the water jacket, the second pipe and into the upper part of the radiator for travel downward therein, and a tube of relatively large cross section extending vertically through the radiator and emptying into the reservoir for receiving and conveying warm water circulated to the upper part of the radiator and being heated thereby for thawing the radiator in case of freezing thereof.

1,919,578. APPARATUS FOR THE MANUFACTURE OF RECEPTACLE CLOSURES. WILLIAM ALFRED STEPHENS, London, England, assignor to The British Sure Seal Company Limited. Filed May 28, 1930, Serial No. 456,612, and in Great Britain July 13, 1929. 22 Claims. (Cl. 113—1.)

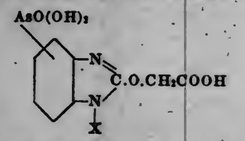


1. In apparatus for curling and jointing a band having a tongue at one end and a slot at the other so as to form a locking ring, the combination comprising a rotatable former, a plunger movably mounted in said former

and adapted to project from the periphery of said former, said plunger being adapted to set said tongue, means for curling said band around said former and a fixed abutment, said abutment being adapted to actuate said plunger at a predetermined period of the rotation of said former.

1,919,579. 2-OXYMETHYLCARBOXYLIC ACID-BENZIMIDAZOLE-ARSONIC ACIDS AND PROCESS OF PREPARING THEM. KARL STREITWOLF, Frankfort-on-the-Main, ALFRED FEHRLE, Bad Soden-on-Taunus, and WALTHA HERRMANN, Frankfort-on-the-Main, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed June 20, 1931, Serial No. 545,845, and in Germany July 22, 1930. 8 Claims. (Cl. 260—14.)

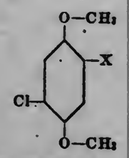
5. The compounds of the following general formula



wherein X stands for hydroxy or alkyl, being valuable therapeutics.

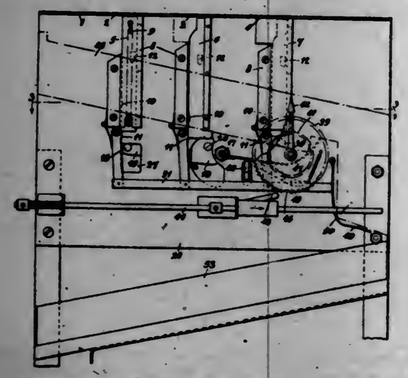
1,919,580. NEW 1.4-DIALKOXY-BENZENE COMPOUNDS. HERMANN WAGNER, Bad Soden-on-the-Taunus, and HERBERT KRACKER, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Oct. 10, 1930, Serial No. 487,898, and in Germany Dec. 11, 1928. 5 Claims. (Cl. 260—130.5.)

1. As new products the compounds of the following general formula



wherein X represents hydrogen, a nitro or an amino group.

1,919,581. COIN FREED MECHANISM. CHRISTOPHER FREDERICK WEBB, Middlesex, England, assignor to Bell Punch Company Limited, Middlesex, England, a Company of England. Filed Aug. 19, 1931, Serial No. 558,151, and in Great Britain Oct. 9, 1930. 12 Claims. (Cl. 194—1.)



1. A coin actuated mechanism which comprises in combination means for the reception of coins of a plurality of denominations, a rotatable indicator, a rotatable actuating member for said indicator, means including a slipping clutch device for operatively connecting said actuating member and said indicator, mechanism operable directly by the delivery of a coin to said first named means for moving said actuating member and the indicator connected therewith in one direction a predetermined extent proportional to the value of said coin, and operator controlled seroizing mechanism operable to move said indicator in stages relatively to said actuating mechanism to return the indicator to a sero indicating position.

1,919,582. DISPENSING DEVICE. GEORGE HENRY YASSO, Bethlehem, Pa. Filed June 25, 1932. Serial No. 619,311. 4 Claims. (Cl. 221—98.)



1. In a dispensing device of the class described, a container, a closure therefor, said closure being provided with a centrally located aperture and a second aperture remote from the first named aperture, a hollow stem extending into the container from said closure and having an upper open end alined with the first named aperture in said closure, a funnel on the lower end of said stem, and a closure plate common to said apertures and swivelly mounted on the closure between said apertures.

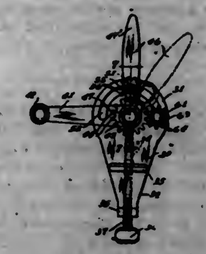
1,919,583. FOOT RAIL. MARGARET BOOTH, New York, N. Y. Filed Mar. 3, 1932. Serial No. 596,458. 9 Claims. (Cl. 45—141.)



1. The combination with a supporting structure having a wall with slots therein, of a folding foot-rail comprising a rail member, and brackets secured to and bridged by said rail member, and pivotally secured to said structure so as to be capable of swinging through said slots, said brackets being adapted to substantially disappear within said structure when said foot rail is in a retracted position with respect to said structure, and essentially close said slots with the outer surface of said brackets thereupon forming a complementary part of the contour of the adjacent outer surface of said wall.

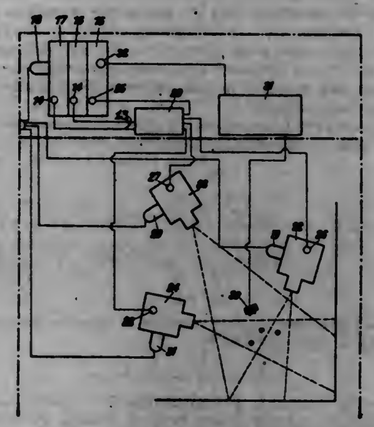
1,919,584. METHOD AND APPARATUS FOR MAKING PACKING RINGS. WILLIAM COBBS, San Diego, Calif. Filed Feb. 4, 1931. Serial No. 513,440. 12 Claims. (Cl. 153—64.5.)

1. An apparatus for bending a thin relatively wide blank edgewise into an annular ring comprising a pair of feed rollers having toothed portions intermeshing and forming a groove designed to receive the blank, a roller bending die having a groove that may be disposed substantially in alinement with said roller groove, means to shift said die with respect to said rollers, and means to rotate said rollers to advance the blank and to cause it to be bent into annular form by said roller die during its advancement.



10. The method of making a dished piston ring from a band of metal of a width greatly in excess of its thickness which consists in bending the band of metal into annular form on lines transverse to the width of said band in a manner permitting the resultant compression of the metal adjacent the inside of the ring and the resultant tension of the metal adjacent the outside of the ring to draw said band into a slightly dished form.

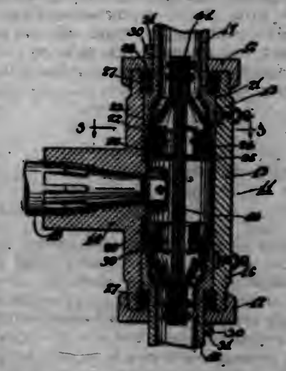
1,919,585. METHOD OF SECURING SYNCHRONISM IN SOUND FILMS. KAREL DEGL, Prague, Czechoslovakia. Filed Sept. 8, 1931, Serial No. 561,782, and in Germany Sept. 20, 1930. 3 Claims. (Cl. 88—16.2.)



1. Film-marking apparatus for a plurality of sound and picture cameras comprising a master marking device which consists of a light sensitive cell a source of light, and a moving matrix, various parts of which have alternately varying degrees of permeability for light and which matrix is interposed between said cell and said source of light, separate marking devices attached each to one of the sound or picture cameras, and means for operating said marking devices simultaneously and in the same manner in respect to the variations of electric resistance produced in said light sensitive cell in said master device.

1,919,586. PROPELLER. ADIEL Y. DODGE, South Bend, Ind., assignor to Bendix Research Corporation, South Bend, Ind., a Corporation of Indiana. Filed June 16, 1930. Serial No. 461,369. 5 Claims. (Cl. 170—162.)

1. A propeller comprising a hub having diametral sleeves, blades having shanks positioned for rotation in the sleeves, cone shaped anchors positioned in the shanks in oppositely disposed relation with respect to each other,



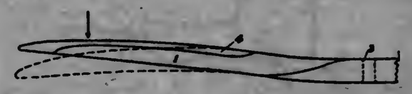
means securing the anchors to the shanks and a laminated leaf spring connecting the anchors.

1,919,587. VALVE FOR ANIMAL FEEDERS. ELMER D. EINSEL and NELS C. NELSON, Hastings, Nebr., assignors to The Hastings Equity Grain Bin Manufacturing Company, a Corporation of Nebraska. Filed Aug. 4, 1931. Serial No. 555,090. 3 Claims. (Cl. 119—53.)



1. An animal feeder including an open top receptacle and a feed trough with a throat therebetween for passage of the feed from said receptacle to said trough, a valve for expanding or constricting said throat, a shield of resilient material secured at its upper edge to a wall of said receptacle, the upper portion of said valve being slidably positioned between said resilient shield and the wall of said receptacle, and a strap secured to said valve below the lower edge of said shield and projecting upwardly for manual operation through the open top of said receptacle to raise or lower said valve.

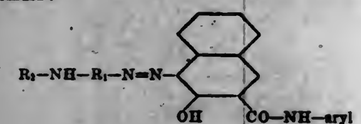
1,919,588. BLADE FOR WINDMILL IMPELLERS. SPENCER HEATH, Baltimore, Md., assignor to The American Propeller Company, Baltimore, Md., a Corporation of Maryland. Filed Aug. 30, 1928. Serial No. 303,025. 7 Claims. (Cl. 170—161.)



1. A windmill impeller having blades, each of said blades being flat on one side and convex on the other side, said blades having an axial inclination towards that side of the plane of rotation on which lies the flat side of the blade.

1,919,589. AZO DYESTUFF INSOLUBLE IN WATER. ERWIN HOFFA and ERWIN THOMA, Frankfort-on-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Sept. 13, 1929, Serial No. 392,486, and in Germany Mar. 2, 1927. 16 Claims. (Cl. 260—95.)

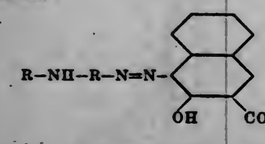
1. As new products, the dyestuffs of the following general formula:



wherein R_1 and R_2 represent benzene nuclei, at least one hydrogen atom of the benzene nuclei being substituted by a substituent of the group consisting of acylamino, aryloxy, alkylthio, cyano, nitro, a carboxylic acid ester, carboxylic acid arylamido group, a hydrogenated aryl residue and an arylsulfo group, whereas the other hydrogen atoms of the benzene nuclei may be substituted by halogen, alkyl or alkoxy, which dyestuffs are insoluble in water and yield when produced on the fiber dyeings, the shades of which vary from reddish-violet to deep blackish-blue.

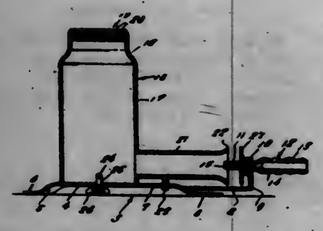
1,919,590. BLUE TO VIOLET-BLUE WATER-INSOLUBLE AZO-DYESTUFFS. ERWIN HOFFA and ERWIN THOMA, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 5, 1930, Serial No. 500,421, and in Germany Oct. 17, 1928. 14 Claims. (Cl. 260—89.)

1. As new products, the dyestuffs of the following general formula:



wherein at least one R stands for a residue of the naphthalene series, the other R for a residue of the benzene or naphthalene series and Z for a residue of the benzene or naphthalene series, the said dyestuffs being insoluble in water and yielding when produced on the fiber dyeings the shades of which vary from reddish-violet to deep blackish-blue.

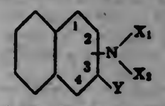
1,919,591. GAS BURNER. CARLETON G. IRISH, THERLO E. BURRINGTON, and FRANK M. THOMAS, Rapid City, S. Dak. Filed Jan. 29, 1932. Serial No. 589,736. 3 Claims. (Cl. 158—111.)



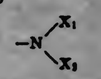
1. In a structure of the class described, a base embodying a plate having marginal supporting legs, a vertically elongated open-ended casing removably seated on said base and provided with an outstanding injector tube within the vicinity of the base, a removable grid mounted in the upper portion of said casing, a cross-rod mounted in the lower portion thereof and provided with a depending screw-threaded retaining stud extending down through an opening in the adjacent portion of said plate, a clamping nut carried by the screw-threaded part of the stud for detachably securing the casing to the base.

1,919,592. PROCESS FOR MANUFACTURING AR-TETRAHYDRONAPHTHYLAMINE COMPOUNDS. FELIX KLINGEMANN, Frankfort-on-the-Main-Mainkur, WILHELM LOMMEL, Wiesdorf, near Cologne-on-the-Rhine, ERNST KORTEN, Frankfort-on-the-Main-Fechenheim, and THEODOR GOOST, Leverkusen, near Cologne-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, a Corporation of Germany. Original application filed Oct. 2, 1926, Serial No. 139,226, and in Germany Oct. 10, 1925. Divided and this application filed Dec. 26, 1928. Serial No. 328,620. 4 Claims. (Cl. 260—109.)

1. A process which comprises treating amino compounds of the naphthalene series of the general formula:

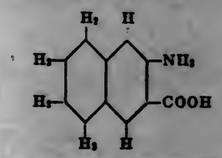


wherein Y stands for hydrogen or COO-alkyl, in case Y is COO alkyl, the group



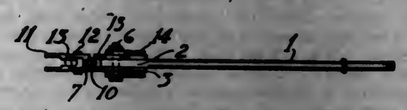
stands in 2-position, and X_1 stands for hydrogen or an alkyl-, aralkyl-, aryl- or acyl-group, X_2 for an acyl-group, in a liquid phase with hydrogen under superatmospheric pressure in the presence of a base metal hydrogenation catalyst and saponifying the artetra-hydroacylamino compounds thus obtained.

4. As a new compound the 2-amino-3-artetrahydronaphthoic acid of the probable formula:



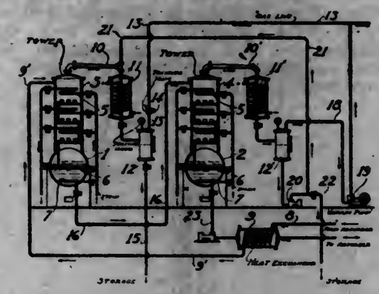
crystallizing from organic solvents in colorless fine needles melting at 180–182° C.

1,919,593. CHAIN PIPE WRENCH. LOUIS LASSEN, Elizabeth, and WILLIAM BOEHM, Roselle Park, N. J., assignors to Standard Oil Development Company, a Corporation of Delaware. Filed Apr. 25, 1930. Serial No. 447,146. 2 Claims. (Cl. 81—63.)



1. A pipe wrench comprising a handle having a head, a chain attached to the head, the chain having solid metal links formed of a single piece, one end of each link being solid and reduced at opposite sides and the opposite end bifurcated and embracing and pivoted to the reduced end of the adjoining link, a portion only of the base of the bifurcated portion being provided with a slot, the portion of the slot facing the reduced end of the link being closed and a tooth associated with the head adapted to engage the base of the slot.

1,919,594. PROCESS FOR RECOVERING VOLATILE LIQUIDS FROM SOLVENTS AND THE APPARATUS THEREFOR. WARREN K. LEWIS, Newton, Mass., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Feb. 1, 1928. Serial No. 250,999. 10 Claims. (Cl. 196—8.)



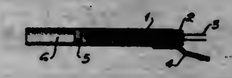
10. An improved process for stripping absorbed gasoline from a less volatile hydrocarbon oil solvent, comprising passing the charged solvent downwardly through a plurality of series of contact zones, passing a vapor, adapted to strip gasoline from the solvent, upwardly from the lower portion of each series of contact zones, supplying positive heating to the said charged solvent before it reaches the lower portion of the first series of contact zones, liberating said vapor in the lower portion of each series of contact zones, passing the partly stripped solvent without material abstraction of heat from the lower portion of each series of contact zones to the upper portion of the next succeeding series of contact zones, maintaining the first of such series of contact zones, at super-atmospheric pressure, maintaining a substantially lower pressure in the succeeding series of contact zones, removing a distillate from each of such series of contact zones, said distillate being taken off adjacent the level at which the solvent carrying gasoline constituents is introduced into the series of contact zones, and removing the solvent substantially free of absorbed gasoline from the last of said series of contact zones.

1,919,595. PROJECTION MACHINE. FREEMAN H. OWENS, New York, N. Y. Filed Apr. 4, 1928. Serial No. 267,157. 16 Claims. (Cl. 88—17.)



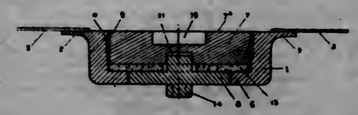
1. Motion picture equipment comprising, in combination, a relatively heavy stationary lamp housing containing an optical illumination system and having a large base for stability, and a combined motion picture camera and projecting apparatus detachably and oscillatably mounted on said lamp housing and including an optical projection system illuminated by the said illumination system, and shutter and film moving mechanism, the said optical illumination system having a fixed axis and the said optical projection system having an axis which always intersects the said fixed axis of the illumination system while being movable with the said combined camera and projecting apparatus in order to change the angle of picture projection, and a reflector at the intersecting axes.

1,919,596. ELECTRON EMITTER FOR ELECTRON DISCHARGE DEVICES. HENRY W. PARKER, Toronto, Ontario, Canada, assignor to Rogers Radio Tubes, Limited, Toronto, Ontario, Canada, a Corporation of Ontario, Canada. Filed Dec. 4, 1931. Serial No. 578,930. 4 Claims. (Cl. 250—27.5.)



1. In a cathode for electron discharge devices, a tubular heat conducting member, a heating element electrically out of contact with said member and disposed near one of the extremities thereof, a coating of electron emissive substance disposed on the interior of said tubular member near the other extremity thereof, a ceramic plug in said member between said heater and said emissive substance and means for effectively transferring heat from said heater along the walls of said member to said emissive substance.

1,919,597. CLOSURE FOR METAL DRUMS OR THE LIKE. ERNEST BERTRAM POKE, Madras, British India. Filed Aug. 14, 1931. Serial No. 556,985. 2 Claims. (Cl. 220—39.)

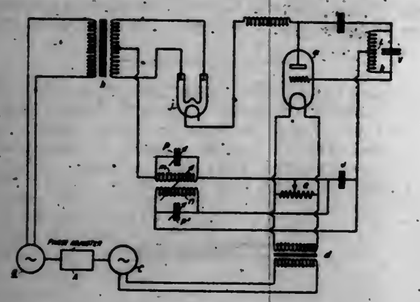


1. A closure for a metal drum having a threaded socket provided with a bottom lip or shoulder, including a two part cap comprising an exteriorly threaded annular member fitting said threaded socket and terminating short of the bottom thereof, a compressible washer disposed upon the bottom face of said annular member adapted to rest upon said bottom lip of the socket, and a second cap member having both a portion projecting through said washer and secured in said annular member and also a flange extending beneath and securing said washer to the annular member, which flange is adapted to occupy the hole bounded by said socket lip and is generally flush with the lower exposed portion of the bottom of the socket.

1,919,598. METHOD AND ARRANGEMENT FOR DIMINISHING NOISE IN VACUUM TUBES. WALTER SCHAFFER, Berlin, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie mit beschrankter Haftung, Berlin, Germany, a Corporation of Germany. Original application filed Oct. 28, 1924, Serial No. 746,268, now Patent No. 1,765,542, dated June 24, 1930, and in Germany Dec. 18, 1923. Divided and this application filed July 21, 1927. Serial No. 207,417. 7 Claims. (Cl. 250—27.)

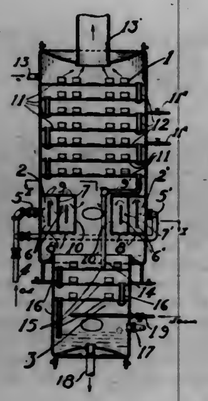
1. The method of diminishing the alternating current hum from thermionic valves the anode cathode circuit and the cathode heating circuit of which are energized from an alternating current source which comprises, supplying, the cathode heating circuit with alternating current, supplying the anode cathode circuit with current derived from alternating current of the same frequency, roughly

adjusting the phase relation of said currents to oppose each other, coupling the direct current anode cathode circuit to the direct current grid cathode circuit, adjusting



the magnitude of the two currents to be numerically equal to each other, and finely adjusting the phase relation of said currents to oppose and compensate each other.

1,919,599. METHOD FOR REMOVING ENTRAINED LIQUID FROM GASES AND VAPORS. JACKSON R. SCHONBERG, Westfield, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Oct. 17, 1929. Serial No. 400,199. 2 Claims. (Cl. 202—40.)



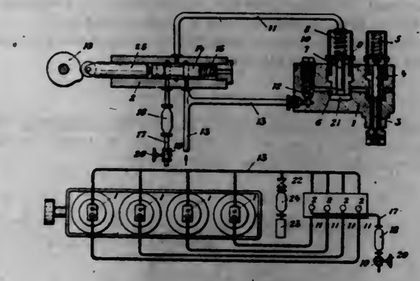
1. The method of distillation which comprises discharging a mixture of hot vapor and liquid at a vaporizing temperature into an entrainment removing zone in which the direction of flow undergoes sudden changes whereby liquid is separated, removing said liquid as soon as separated into a stripping zone, removing part of the vapors during their flow through the entrainment removing zone into a rectifying zone, discharging the remaining vapors into said rectifying zone and combining them with the vapors previously removed from the entrainment removing zone, passing the combined vapors through the rectifying zone whereby they are separated into a condensate and uncondensed vapors, passing the condensate through a closed path into the stripping zone and combining same with the liquid removed from the entrainment removing zone, introducing steam into the stripping zone whereby vapors are removed from the combined liquid, and commingling the last named vapors with vapors removed from the entrainment zone.

1,919,600. HAIR WAVING DEVICE. ROBERT B. SEWARD, Guilford, Conn., assignor to Zotos Corporation, New York, N. Y., a Corporation of New York. Original application filed Nov. 30, 1932, Serial No. 644,956. Divided and this application filed Feb. 15, 1933. Serial No. 656,794. 5 Claims. (Cl. 132—33.)



1. A hair waving device comprising a perforated tube and a tube of absorbent material telescoping one within the other, and an insertable rod of exothermic material.

1,919,601. FUEL INJECTION DEVICE FOR INTERNAL COMBUSTION ENGINES. OSCAR SIMMEN, Erlach, Switzerland, assignor to the Firm Sulzer Frères Société Anonyme, Winterthur, Switzerland. Filed Jan. 29, 1929, Serial No. 335,893, and in Switzerland Feb. 21, 1928. 7 Claims. (Cl. 123—139.)

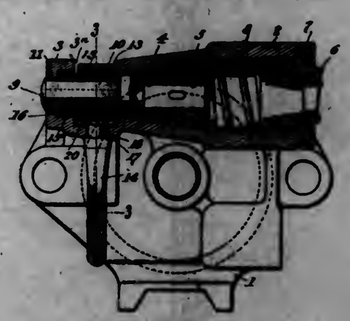


1. In a fuel injection device for internal combustion engines, the combination with a fuel injection valve and a chamber for accumulating the fuel under pressure, of external means including a source of pressure, for suddenly increasing the pressure on the fuel in the accumulating chamber by applying additional pressure to the movable wall of the accumulating chamber and lifting the injector valve to effect airless injection of the fuel, and means interposed between the accumulator and the source of pressure for causing the same source of pressure alternately to deliver fuel to the accumulator and to force out and inject the fuel stored therein.

1,919,602. VALVE. CHARLES M. STEWART, Denver, Colo., assignor to Gardner-Denver Company, Denver, Colo., a Corporation of Delaware. Filed July 29, 1930, Serial No. 471,458. Renewed Dec. 5, 1932. 4 Claims. (Cl. 251—163.)

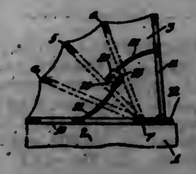
3. In combination, a supporting structure having a valve chest and a lug spaced therefrom, a rotary valve

resiliently maintained within the valve chest and having a stem extending into the lug, an operating handle slidable upon the stem, resilient means engagable with the



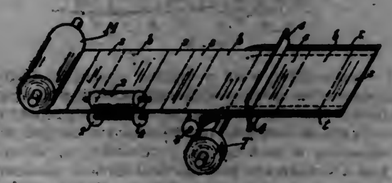
handle to hold the valve in various positions, and said valve when seated maintaining the handle and the locking means therefor in place.

1,919,603. BABY CARRIAGE HOOD. GEORGE STENSON, Gardner, Mass., assignor to Heywood-Wakefield Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 15, 1932. Serial No. 586,848. 5 Claims. (Cl. 296—110.)



1. In a hood for a baby carriage, a lower bow secured to the carriage, a plurality of intermediate hood supporting bows pivotally secured at opposite ends to the carriage, a forward bow slidably and pivotally secured at opposite ends to said carriage, and a toggle linkage between said forward bow and the lower bow to hold said bows separated and the hood in raised position.

1,919,604. METHOD OF FORMING COMPOSITE BOXES. JOHN S. STOKES, Huntingdon Valley, Pa., assignor to Stokes and Smith Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 8, 1930. Serial No. 480,432. 17 Claims. (Cl. 93—43.)



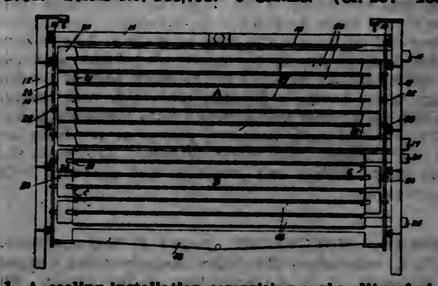
1. The method of making boxes which comprises adhesively applying tab material to a strip of box material with portions thereof projecting beyond said strip, severing the strip and tab material applied thereto to form a component adapted to be the bottom and side walls of a box, bringing end wall components in engagement with said first component in box-forming position, and folding the projecting tab portions into adhesive engagement with said end wall components.

1,919,605. DISPENSING CONTAINER. FRANCIS P. SWALLOW, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a Corporation of Maine. Filed July 20, 1931. Serial No. 551,893. 5 Claims. (Cl. 312—43.)



1. An adapter for attachment to a dispensing container, the latter being normally arranged to receive and support a stack of normally flat cups, said adapter providing, when attached to said container, for the dispensing of nested open-mouthed wedge-shaped articles, said adapter comprising a lower end wall member having means at opposite edges to permit attachment of said member to said container, said member having an elongated slot therein and walls extending from the edges of said slot in diverging relation to form a substantially wedge-shaped passage.

1,919,606. LIQUID COOLING INSTALLATION. CHARLES TEMKOVITS, Philadelphia, Pa. Filed June 16, 1931. Serial No. 544,791. 9 Claims. (Cl. 257—183.)



1. A cooling installation comprising a plurality of pipes arranged in a substantially vertical plane adapted to receive different types of refrigerating fluids, return bends at the ends of certain of the pipes having inclined ends serving as deflecting fins, and other underlying pipes having applied fins serving as deflectors.

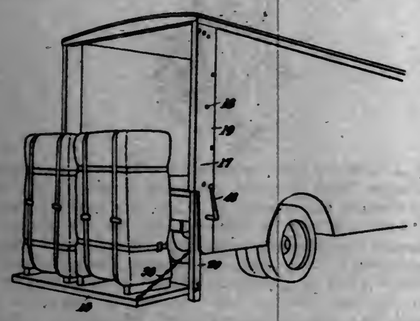
1,919,607. TELEGRAPH SYSTEM. ALFRED EDWARD THOMPSON, Croydon, England, assignor to Creed and Company, Limited, Croydon, Surrey, England. Filed July 28, 1931, Serial No. 553,516, and in Great Britain June 11, 1931. 7 Claims. (Cl. 178—42.)



1. In a page printing telegraph receiver, a movable platen carriage, a paper roll movable with said platen

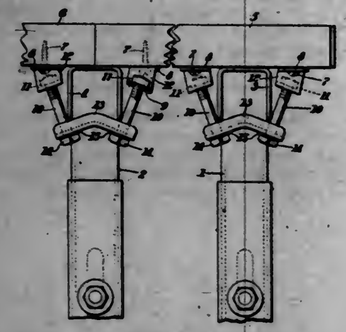
carriage, an arm pivoted on said carriage and cooperating with said paper roll to be moved to an operated position when the paper is becoming exhausted, and switch means on a relatively stationary portion of the apparatus and engaged by a projection on said pivoted arm on the return movement of the carriage when the arm is in an operated position.

1,919,608. TAIL GATE ELEVATOR. LEWIS S. TROELL, Brooklyn, N. Y. Filed Apr. 6, 1932. Serial No. 603,576. 7 Claims. (Cl. 214—75.)



6. In combination, a truck body having sides in definite spaced parallel relation, vertical guide housings of general U-shape in horizontal cross-section and arranged with the spaced sides of the same secured to the ends of the truck sides and with the closed loop portions of said U-shaped housings to the rear of the truck body to form hollow rearward extensions of the truck body sides, rams operating in said guide housings, a tie rod rigidly connecting the lower end portions of the rams together in definite spaced relation, a tail gate hinged on said tie rod and cable means including pulleys mounted in the upper ends of the housings, cables having a hoisting connection with the rams and operating over said pulleys within the closed portions of the hollow guide housings, pulleys at the lower ends of the housings, said cables extending downward about said lower pulleys and concealed and protected within the housings.

1,919,609. WORKTABLE. IRVING F. WEBB, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed July 30, 1932. Serial No. 626,528. 13 Claims. (Cl. 45—31.)



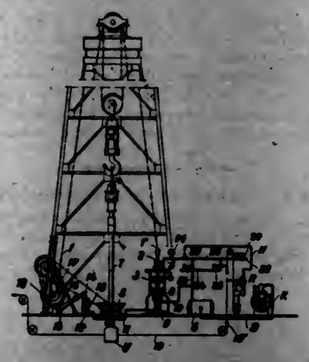
1. A work-table having a supporting structure including a table-top supporting rail, a table-top overlying said rail, a clamp-plate restrained by said rail against movement toward the table-top, and downwardly-converging securing devices disposed at opposite sides of said rail connecting said table-top and clamp plate.

1,919,610. POCKET UMBRELLA. EDWARD WEBY, Toms River, N. J. Filed June 7, 1932. Serial No. 615,801. 7 Claims. (Cl. 135—29.)



1. An umbrella frame having a folding rod with ribs provided with offset elbows hinged around the tip of the rod and clamp washers for holding the center of a cover fabric, the inner washer having a curved edge extending over the elbows to protect the fabric when opening and closing the umbrella.

1,919,611. APPARATUS FOR AUTOMATICALLY REGULATING THE DRILL PRESSURE IN DEEP-BORING PLANTS. WILHELM HERMANN BESIEK, Dusseldorf-Auf Der Hardt, Germany, assignor to Firm: Haniel & Lueg G. m. b. H., Dusseldorf-Grafenberg, Germany. Filed Aug. 13, 1931, Serial No. 556,809, and in Germany Aug. 15, 1930. 8 Claims. (Cl. 255—19.)

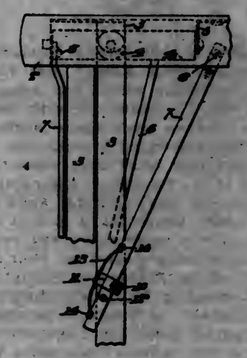


3. In combination with a drilling apparatus including a drill, suspension means for the drill including a normally restrained device for lowering the drill and a separate device operable in response to the effective weight of the drill exceeding a predetermined maximum to lower the drill, and a connection between said devices whereby operation of the second mentioned device to lower the drill effects release of said first mentioned device.

1,919,612. YEAST PRODUCT AND METHOD OF MAKING THE SAME. MAX BLOCK, Kew Gardens, N. Y., and OSWALD FREUND, Bloomfield, N. J. Filed May 26, 1931. Serial No. 540,194. 8 Claims. (Cl. 167—56.)

1. A process for the production of yeast with laxative properties which comprises growing yeast in a nutrient solution containing a sufficient amount of an extract of a laxative drug of the type of senna, aloes, cascara, jallap and rhubarb until appreciable laxative properties have been imparted to and assimilated by the yeast.

1,919,613. FOLDING TABLE. BERNARD BOSSWINKEL, Woodcliff, N. J., assignor to Ferguson Brothers Manufacturing Company, Hoboken, N. J., a Corporation of New Jersey. Filed Nov. 10, 1931. Serial No. 574,079. 5 Claims. (Cl. 45—11.)



1. In a table, a folding leg, a keeper thereon, a folding brace slidable in the keeper and arranged to coact therewith to lock the leg in its unfolded position, and a spring at the keeper, slidably engaging the brace and tending to force the brace into its locking position, said spring being provided with means to prevent its lateral displacement on the brace.

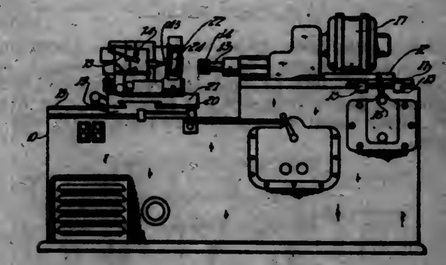
1,919,614. FINE ADJUSTMENT FOR POTENTIOMETERS. JOSEPH L. BONANNO, Forest Hills, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed June 11, 1929. Serial No. 370,081. 3 Claims. (Cl. 201—48.)



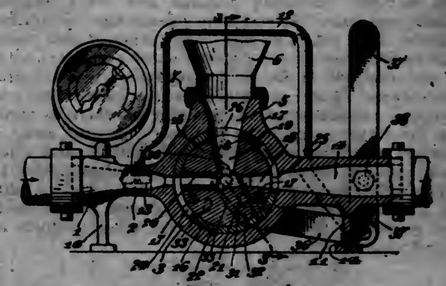
1. In a device of the kind described a pair of conductors, a low resistance for connecting said two conductors, a high resistance in parallel with said low resistance, a variable connection for said low resistance and means for connecting any portion of said low resistance to any point of said high resistance.

1,919,615. GRINDING MACHINE. CLEMENT BOOTH, Cincinnati, Ohio, assignor, by mesne assignments, to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed May 27, 1930. Serial No. 456,211. 12 Claims. (Cl. 51—165.)

1. A work size determining gage including an oscillatable, longitudinal, shiftable spindle, a work feeler point carried thereby, and adapted to ride on the surface of a work piece, said spindle having a pinion thereon, a rack member meshing with the pinion, and means for resiliently longitudinally urging the rack member to oscillate the spindle to an amount limited by engagement of the gage point thereof with the work piece.



1,919,616. PORTABLE APPARATUS FOR PRODUCING FIRE-EXTINGUISHING FOAM. FISHER L. BOYD, Haverford, Pa., assignor to National Foam System, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed June 7, 1928. Serial No. 283,494. 8 Claims. (Cl. 169—15.)



2. Apparatus for producing fire-extinguishing foam comprising a pair of conduits through which streams of water flow simultaneously, means for discharging a foam-producing ingredient into the respective streams of water in the said conduits, a single valve element in each of said conduits adapted to positively control the supply of foam-producing ingredient to said conduit independently of the water pressure, said element being also adapted to control the flow of water through said conduit, and means having connection with both of said valve elements for simultaneously actuating the same.

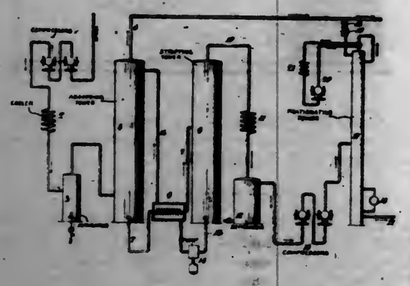
6. In apparatus of the character described a valve comprising a body having a pair of inlets and an outlet formed therein and a rotary valve mounted in said body adapted to establish communication successively and simultaneously between each of said inlets and the said outlet, said valve having a venturi formed therein, the restricted portion of which is located at the inlet from the foam ingredient supply.

1,919,617. PROCESS FOR SULPHATING OLEFINES. BENJAMIN T. BROOKS, Greenwich, Conn., and EUGENE J. CARDARELLI, Newark, N. J., assignors, by mesne assignments, to Standard Alcohol Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 10, 1930. Serial No. 501,469. 8 Claims. (Cl. 260—96.)

1. Process of sulphating propylene, which comprises contacting same in gas phase with aqueous sulphuric acid

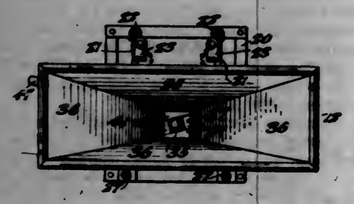
of from 65 to 80%, H_2SO_4 content, while maintaining a temperature at which sulphation of propylene takes place, and maintaining the partial pressure of said propylene at not less than 50 pounds gage per square inch.

1,919,618. PROCESS OF MAKING ETHYL ALCOHOL. BENJAMIN T. BROOKS, Greenwich, Conn., assignor, by mesne assignments, to Standard Alcohol Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 22, 1931. Serial No. 558,650. 11 Claims. (Cl. 260—156.)



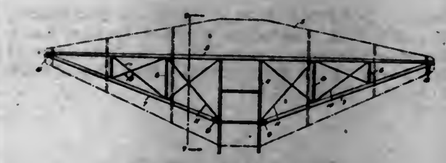
1. The process of making ethyl alcohol from hydrocarbon material containing ethylene and other olefines, which comprises substantially completely separating ethylene from other reactive constituents of said material, by compressing said material under a pressure within the range 300 to 550 pounds per square inch to effect condensation of the said other reactive constituents and to form a residual ethylene-containing gas fraction, treating the ethylene-containing fraction while still under a pressure within the range stated with sulfuric acid while maintaining a temperature and an acid concentration at which sulfation of the ethylene takes place, diluting heating and hydrolyzing the sulfated mixture thus formed, and recovering the alcohol from the other products of hydrolysis.

1,919,619. SPREADING APPARATUS. ALLAN I. DEAN, Yeadon, Pa., assignor to Good Roads Company, Inc., Upper Darby, Pa., a Corporation of Pennsylvania. Filed Apr. 14, 1930. Serial No. 444,195. 2 Claims. (Cl. 275—8.)



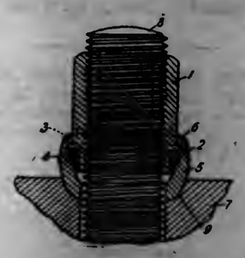
1. A spreader apparatus for roadways comprising the combination of a wheeled body, a spreader rotatably mounted on said body, a hopper carried by said body having an outlet located to discharge material upon said spreader, a plurality of shutters arranged in pairs respectively in parallel planes, means for mounting each pair of shutters to maintain two opposed edges in parallel relation in all positions of said shutters, these opposed edges of all of said shutters forming an opening in register with said outlet, and means to move said shutters in synchronism to either increase or decrease the size of said opening.

1,919,620. MONOSPAR AIRPLANE. CARL DE GANAHL, Greenlawn, N. Y., assignor to Fleetwings, Inc., Garden City, Long Island, N. Y., a Corporation of Delaware. Filed Feb. 26, 1931. Serial No. 518,319. 11 Claims. (Cl. 244—12.)



1. An airplane formed with a fuselage and having rigid non-camber-varying wings, said wings including a single spar extending across and being fixed to the fuselage, and bracing means for said spar, said spar having top and bottom cords spaced apart vertically at the fuselage but converging towards the opposite ends of the spar, said spar being constructed to support the maximum load of the fuselage in a vertical direction but being of appreciably less horizontal width and strength, said bracing means comprising a pair of rails designed to withstand endwise compression and vertical bending strains, said rails being secured by their inner ends to opposite sides of the fuselage at points rearwardly of the spar and extending in opposite directions from the fuselage substantially to the opposite ends respectively of the spar and being fixed by their outer ends to the spar so as to receive endwise compression from the spar.

1,919,621. LOCK-NUT DEVICE. AUDOIN D'HALLOY, Paris, France, assignor to International Safety Lock Nut Corporation, New York, N. Y. Filed Dec. 1, 1931. Serial No. 578,288. 1 Claim. (Cl. 151—19.)

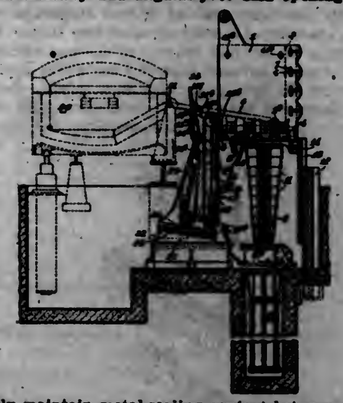


In a lock-nut device, a threaded nut portion having a reduced resilient sleeve portion, a resilient helicoidal split ring encircling said sleeve portion and adapted to cooperate therewith and a cup-shaped holding cup located on the nose of the nut which cap retains said ring in its cooperating position with respect to said sleeve portion and when the nut is screwed home is forced against the work piece and in its turn compresses said resilient ring causing it to exert pressure in both axial and radial directions relative to the bolt.

1,919,622. INGOT MOLD. THOMAS E. DODDS, Massena, N. Y., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 23, 1931. Serial No. 539,461. 9 Claims. (Cl. 22—136.)

1. An ingot casting apparatus comprising a mold member having a side opening, a flexible closure belt member mounted to contact with the sides of said opening to form a substantially continuous closure therefor, means for moving one of said members relative to the other member to cause the belt to move progressively over and close

said opening, and means for adjusting the position of said belt laterally and angularly to said opening to continuously maintain metal-sealing contact between the belt and the sides of the opening as the mold expands unevenly under heat.



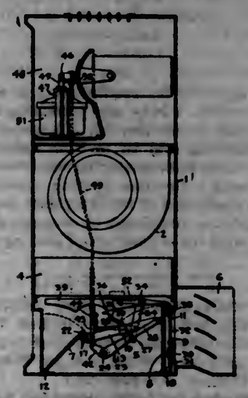
1,919,623. PRODUCTION OF USEFUL PRODUCTS FROM CELLULOSIC MATERIALS. HENRY DREYFUS, London, England. Filed Feb. 18, 1932, Serial No. 593,857, and in Great Britain Mar. 7, 1931. 18 Claims. (Cl. 127—37.)

1. Process for the production of cellulosic conversion products which comprises subjecting cellulosic materials to the action of solutions of acids in volatile organic solvents.

1,919,624. CHROME SCALE SOFTENING PROCESS. THOMAS M. DUNN, DEBB B. LAKE, and EARL T. YOUD, Bridgeport, Conn., assignors to The Bullard Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Feb. 17, 1931. Serial No. 516,516. 4 Claims. (Cl. 148—8.)

1. The process of softening scale on a stainless steel article which consists in immersing the article in an aqueous bath composed of nitric acid and a sugar reducing agent.

1,919,625. AUTOMATIC FIRE PROTECTION DAMPER. WARREN EWALD, Ardsley, Pa., assignor, by mesne assignments, to John J. Nesbitt, Inc., Holmesburg-Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 1, 1930. Serial No. 492,703. 17 Claims. (Cl. 98—33.)



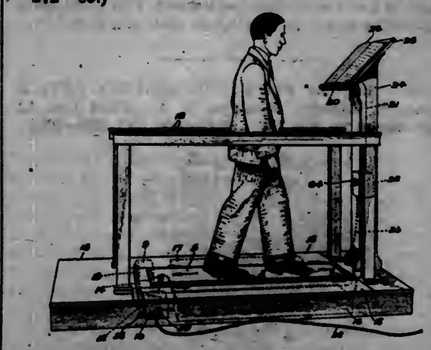
1. A heating and ventilating unit including a recirculating damper, in combination with a fire damper, means for actuating the fire damper including means for compelling the same to close in the presence of flame or a rise in temperature of predetermined degree, and means whereby in the event just stated the recirculating damper will be closed and the fire damper will be simultaneously locked.

1,919,626. APPARATUS FOR PURIFYING EXHAUST GAS. JOHN FINN, Jr., San Francisco, Calif. Filed Oct. 15, 1930. Serial No. 488,893. 5 Claims. (Cl. 23—288.)



1. An apparatus for purifying the exhaust gas from an internal combustion engine, comprising a chamber adapted to be attached to the exhaust pipe connected to said engine; means in said chamber holding platinum, and additional means in said chamber holding a catalytic agent capable of cooperating with the platinum to enhance the oxidation of carbon monoxide contained in the exhaust gas.

1,919,627. EXERCISING APPARATUS. ALAN S. FITZGERALD, Wynnewood, Pa., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Aug. 15, 1931. Serial No. 557,851. 11 Claims. (Cl. 272—69.)



1. An exercising apparatus including in combination, a movable track means, a motor means connected with said track means to move it, and a control means for said last named means for varying the rate of movement of the track means in response to changes in position of a body along the track means.

1,919,628. DILUTION DETECTOR FOR ANTIFREEZE SOLUTIONS. PER K. FROLICH and STANLEY P. GILDERSLEEVE, Elizabeth, N. J., assignors to Standard Oil Development Company, a Corporation of Delaware. Filed Feb. 16, 1932. Serial No. 593,406. 7 Claims. (Cl. 252—5.)

1. An anti-freeze composition comprising a water soluble alcohol and a small amount of a petroleum distillate heavier than kerosene, said distillate having the property of causing the composition to form a milky suspension upon the addition of 5% or more of water.

1,919,629. STAIR TREAD. LOUIS GALTIERI, Garfield, N. J. Filed May 29, 1930. Serial No. 456,903. 3 Claims. (Cl. 20—79.)

1. A device of the character described, comprising in combination, a tread support, a coat of adhesive material

thereon and surfacing said support, a water-proof cement imposed thereon, an adhesive material surfacing said cement, a stratum of felt thereon, a coating of water-proof adhesive material on said felt, a surfacing of linoleum



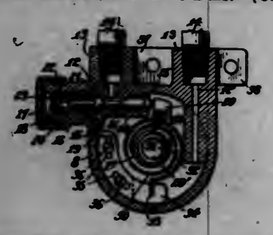
thereon and adhered thereto and forming the rear portion of the tread surface of said structure, and a wear resisting abrasive plate disposed to form the nose portion and a part of the tread surface of said structure.

1,919,630. CLINICAL THERMOMETER. LEOPOLD E. GREINER, Jr., New York, N. Y. Filed July 30, 1928. Serial No. 296,152. 7 Claims. (Cl. 73—52.)



1. A thermometer of the class described having a single split shield covering and projecting the thermometer all around the readable part thereof and for a predetermined distance therebeyond and having a longitudinal slot alined with the prismatic or magnifying portion of the thermometer and of less length than said shield, said shield being split its entire length in parallelism with said slot.

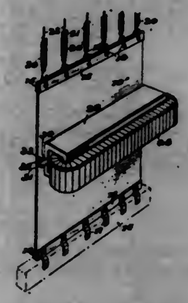
1,919,631. LIQUID FLOW CONTROLLING DEVICE. GEORGE E. GRIFFIN, Brooklyn, N. Y. Filed Dec. 12, 1930. Serial No. 501,787. 12 Claims. (Cl. 236—93.)



1. In a liquid flow controlling device, a casing having a chamber with liquid inlet and outlet ports and a valve chamber opening to the casing chamber and one of said ports, a valve having a face for seating against the juncture and controlling the connection of the valve chamber with the port to control the passage of liquid through the casing and the face and back of said valve being arranged for receiving and equalizing the force of the pressure of the liquid in the casing on the opening and closing sides thereof, a spring to urge the valve to closing position, a coiled member positioned in the casing between the inlet and outlet ports comprising juxtaposed plates of metal having different coefficients of expansion adapted to be expanded and contracted by variations of the temperature of the liquid in the casing and to effect actuation of the valve to open the one port to the casing when the temperature of the liquid rises above a predetermined degree.

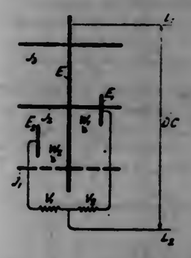
1,919,632. SOUND RADIATOR. CARLETON D. HAIGIS, Haddonfield, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Apr. 4, 1930. Serial No. 441,659. 3 Claims. (Cl. 179—115.5.)

1. An acoustic device including a relatively large direct-acting thin sheet diaphragm of high internal viscosity and whose area is on the order of a plurality of square feet, a frame in which said diaphragm is mounted, means for rigidly attaching one end of said diaphragm to said frame, a plurality of flexibly mounted free tension springs for applying a restoring tension to the opposite edge of said diaphragm without imposing an audio tension on the material thereof, a single high frequency responsive means operatively connected to said diaphragm substantially midway of its length for vibrating the same, said



last named means including a single thin strip of light weight current conducting material rigidly secured to the diaphragm in a plane substantially at a right angle to the plane of the diaphragm and to the direction of tension in the diaphragm, and means for electrically energizing said strip of material uniformly throughout its length, whereby the diaphragm is caused to move directly by the strip of conducting material by electrical forces applied thereto.

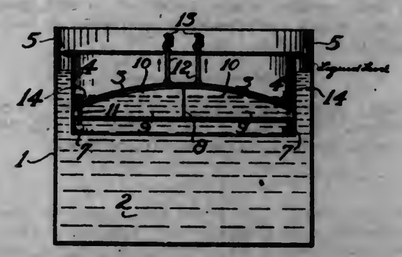
1,919,633. APPARATUS FOR COMMUTATING OR PERIODICALLY INTERRUPTING ELECTRIC CURRENTS. JULIUS FREDERIK GEORG POUL HARTMANN, Copenhagen, Denmark. Filed Feb. 8, 1932, Serial No. 591,541, and in Germany Mar. 5, 1931. 14 Claims. (Cl. 175—364.)



11. In an apparatus for rectifying an alternating voltage, in combination, means for producing a conductive liquid jet moving freely through a gaseous atmosphere, means for influencing said jet to form therefrom a series of equidistant conductors moving at equal velocity through said atmosphere in a direction forming a substantial angle with the main dimension of the individual conductors, and electrodes which are positioned to successively make electrical contact with the conductors of said series.

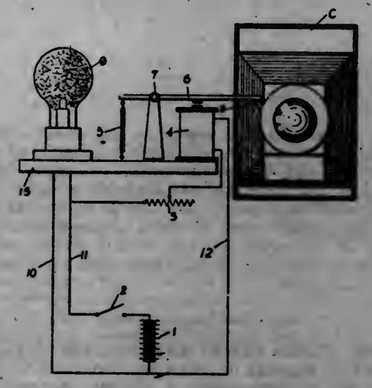
1,919,634. FLOATABLE ROOF FOR TANKS. CHARLES H. HAUPT, Elizabeth, and ALLEN J. ELY, Roselle, N. J., assignors to Standard Oil Development Company, a Corporation of Delaware. Filed Feb. 10, 1930. Serial No. 427,169. 3 Claims. (Cl. 220—26.)

3. A floatable deck for tanks comprising a body portion, a plurality of inner flanges depending from the body portion and intersecting adjacent its center, an outer flange depending from the periphery of the body portion extending into the tank to a greater depth than the inner flanges



and forming therewith a plurality of downwardly opening gas containers extending over at least the greater part of the area of the deck.

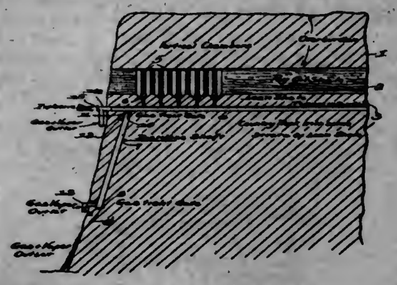
1,919,635. CAMERA ATTACHMENT. ROBERT KROGH, Hollis, N. Y., assignor to Star Company, New York, N. Y., a Corporation of New York. Filed May 16, 1932. Serial No. 611,456. 1 Claim. (Cl. 67—29.)



A camera attachment comprising a source of current, a flashlight bulb connected to said source of current, an electromagnet which is also connected to said source of current, said flashlight bulb and said electromagnet being energized in circuits, parallel to each other, by said source of current and having their circuits controlled by a common switch, said electromagnet having an armature whose movement is adapted to control the operation of the shutter of the camera, the circuit of said electromagnet having an impedance which causes said shutter to be operated immediately before the incandescence of the flashlight filament reaches the flashing point, the circuit of said electromagnet including a variable resistance.

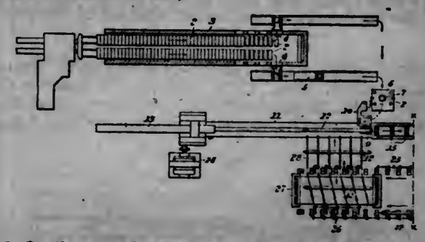
1,919,636. SYSTEM OF MINING OIL SHALES. SAMUEL N. KARRICK, Baltimore, Md. Filed Mar. 5, 1930. Serial No. 433,385. 3 Claims. (Cl. 262—1.)

1. The method of obtaining oils and gases from carbonaceous material comprising driving passageways in the material in its natural position, depositing the carbonaceous material removed from the passageways within other passageways, made in the deposit wherein the shale is not sufficiently rich for independent working thereof subjecting the material removed in the formation of the passageways to the action of heat at a carbonizable temperature to drive out the volatiles therefrom, subjecting the walls of the passageways to the action of heat at a carbonizable temperature to drive out the volatiles, and



effecting a collection of gases and liquid products from the volatiles derived from the walls and from the removed material.

1,919,637. TUBE MANUFACTURE. CARL W. LITTLER, Aliquippa, Pa., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 23, 1930. Serial No. 483,777. 6 Claims. (Cl. 29—33.)



1. In the manufacture of tubing, the steps comprising pressing heated material into a bottle closed at one end, passing the bottle on a mandrel through a plurality of dies to thin and elongate the same into a blank, passing the mandrel and blank through a reeler to loosen the blank on the mandrel to facilitate stripping, stripping the blank from the mandrel, removing the closed end of the blank, and passing the blank through an expanding mill to expand the same.

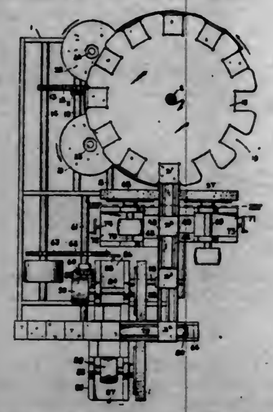
5. Apparatus for the manufacture of tubing, comprising a press, a push bench including a mandrel and dies, a reeler for loosening a blank on a mandrel, a stripper for stripping the loosened blank from the mandrel, transfer means for transferring the stripped blank from the reeler, means associated with said transfer means for removing a closed end of the blank, a reheating furnace for reheating a blank, an expanding mill for expanding the blank, and means for sizing the expanded blank.

1,919,638. KNIFE FOR THREAD-CUTTING TEMPLES. HOMER F. LIVERMORE, Brookline, Mass., assignor to H. F. Livermore Co., Allston, Mass., a Corporation of Massachusetts. Filed May 9, 1931. Serial No. 536,151. 1 Claim. (Cl. 139—303.)



A knife for thread-cutting temples comprising a single piece of sheet material folded longitudinally thereof to form parallel side portions, each provided with a cutting edge, and a bridge portion extending longitudinally of said side portions and connecting them together along their lower edges to form a U.

1,919,639. TILE MACHINERY. ALBERT CLAY MYERS, Niles, Calif., assignor to Kraftile Co., Niles, Calif., a Corporation of Delaware. Filed June 30, 1930. Serial No. 464,839. 14 Claims. (Cl. 25—104.)



1. A tile machine including a pair of interspaced abrasive wheels; and a gage plate movable between said wheels and having openings therethrough adapted to carry tile.

1,919,640. TILE FABRICATING MACHINERY. ALBERT CLAY MYERS, Niles, Calif., assignor to Kraftile Co., Niles, Calif., a Corporation of Delaware. Filed Mar. 16, 1931. Serial No. 522,955. 9 Claims. (Cl. 25—104.)



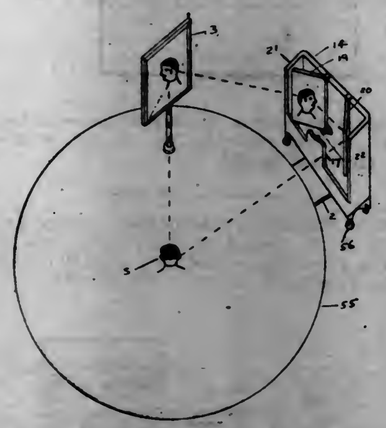
1. A tile machine including a conveyor; a tile carrier on said conveyor; and a scratching element located laterally to said carrier.

1,919,641. WELL PLUNGER. JOHN W. PIPPIN, Corpus Christi, Tex., assignor of one-half to H. R. Giles, Nueces County, Tex., and one-half to W. F. Hall and George Lowrey, Harris County, Tex. Filed Jan. 3, 1931, Serial No. 506,472. Renewed Feb. 27, 1933. 3 Claims. (Cl. 103—202.)



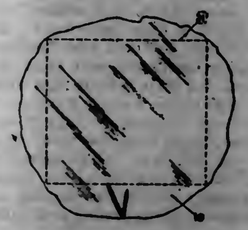
1. In combination with a plurality of threadedly connected pump rods and a pump plunger operated thereby and having a longitudinal fluid conduit therethrough; means within said conduit for exerting a torque on said plunger and rods incident to the passage of fluid therethrough, said means comprising a baffle twisted to form a spiral blade mounted within the conduit of said plunger said blade having the opposite edges thereof secured to the walls of the conduit.

1,919,642. POSE REFLECTING APPARATUS. LUTHER G. SIMJIAN, New Haven, Conn. Filed Nov. 23, 1931. Serial No. 576,801. 13 Claims. (Cl. 45—99.)



1. In a pose-reflecting apparatus, the combination of two mirrors so separately and movably mounted as to be adapted for bodily movements around a common central posing area, and automatic means adapted to adjust, during the bodily movements, each mirror as regards relative facing angles thereof to enable a posing subject, regardless of the bodily positions of said mirrors, to see in one mirror his image at such angle as reflected therein by the other mirror.

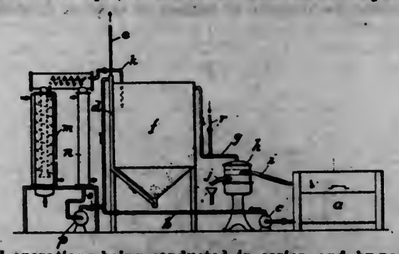
1,919,643. ULTRA-VIOLET RAY TRANSMITTING MATERIAL. CHARLES P. STEWART, Los Angeles, Calif. Filed Dec. 18, 1929, Serial No. 415,094. Renewed Jan. 21, 1933. 2 Claims. (Cl. 174—177.)



1. The method of transmitting ultra-violet rays which comprises placing cleaned Placuna Placenta shell between a source of such rays and the place where the rays are desired.

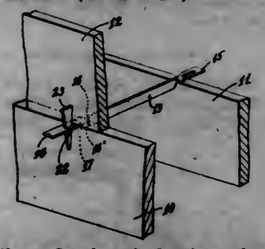
1,919,644. PROCESS FOR PURIFYING DRY CLEANERS' SOLVENTS. ROBERT G. WALKER, New York, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 13, 1930. Serial No. 420,475. 5 Claims. (Cl. 196—15.)

1. The process of cleaning solvent used in dry cleaning which comprises flowing used solvent in intimate contact with a decolorising agent and then subjecting it to centrifugal force to separate the solvent from heavier impurities,



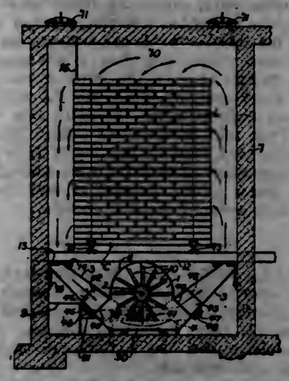
said operations being conducted in series, and by-passing solvent, distilling it to eliminate high boiling hydrocarbons and returning the solvent to the flowing stream.

1,919,645. FORM TIE. JOHN M. WILLARD, Los Angeles, Calif., assignor, by mesne assignments, to Crellin Machine Company. Filed Apr. 8, 1931. Serial No. 527,389. 3 Claims. (Cl. 25—131.)



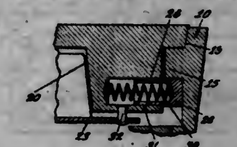
1. A form tie made of a single piece of strap metal having end portions twisted along the longitudinal axis of the metal strap to position said end portions in a plane substantially at right angles to the plane of the middle body portion at a predetermined distance apart so as to form spreader stops at the points of twisting, and opposed triangular prong members bent out of the opposite edge portions of each of said end members to lie in a plane transverse to the longitudinal axis of said strap adjacent to said point of twisting, said prong members being adapted to enter form boards and hold them in twisted portion spreader stops.

1,919,646. DRY KILN. GEORGE H. WOOLHOUSE, Tacoma, Wash., assignor of one-half to J. I. Bowers, Seattle, Wash. Filed June 1, 1931. Serial No. 541,288. 8 Claims. (Cl. 34—46.)



1. A lumber dry kiln comprising a housing defining a drying chamber of considerable length, a plurality of fans having radiating vanes, and spaced at intervals along the length of the chamber, a fan casing partially enclosing each fan, conduits, for suction and discharge, extending from the exposed portion of each fan to each side of the drying chamber, and constituting, with the fan casing, a straight-through passage for air, reversible means to rotate the fans, a fresh air supply conduit, an individual connection from the same to each fan casing, and means to control admission of fresh air to the fan casings.

1,919,647. AUTOMATIC SAFETY PLUNGER. SAMUEL L. BELKNAP, Los Angeles, Calif. Filed Sept. 21, 1932. Serial No. 634,189. 3 Claims. (Cl. 109—3.)



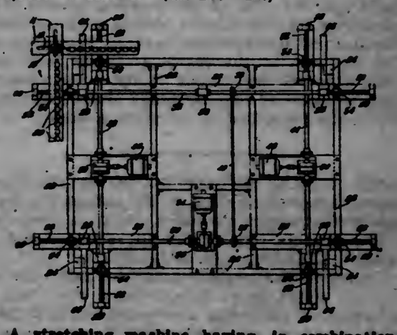
1. A safe comprising a container, a door for the container, there being an inwardly exteinding flange on which the door rests, a lock for the door having a bolt adapted to be moved beneath the flange with in locking position, said lock extending through the door, a plate on the under side of the door, and means operable by flexing of the plate on attempting to punch the lock engageable beneath said flange for holding the door in closed position.

1,919,648. POWER BLADE CONTROL FOR ROAD GRADERS. GEORGE GARDNER, Redlands, Calif. Filed Aug. 27, 1931. Serial No. 559,732. 17 Claims. (Cl. 37—159.)



1. In a road grader, the combination of a grading blade, an engine, a main shaft driven thereby, a countershaft driven by the main shaft, clutches on each of the main and the countershafts, gears operatively associated with the clutches, mechanical connections from said gears to control the blade, said clutches being operative to interconnect said gears with the main or countershafts to raise or lower the blade bodily or to tilt the blade to opposite inclinations.

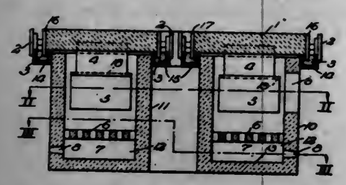
1,919,649. STRETCHING MACHINE. ROGER L. GRIFFIN and JAMES T. O'NEIL, Peabody, Mass., assignors to A. C. Lawrence Leather Company, Boston, Mass., a Corporation of Maine. Filed Mar. 31, 1928. Serial No. 266,365. 6 Claims. (Cl. 149—21.)



5. A stretching machine having, in combination, devices for imparting stretching action to the work, power

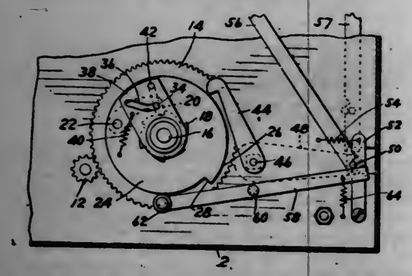
driven means for imparting longitudinal and transverse movements to said devices, and control mechanism for said means for independently controlling the longitudinal and transverse advance movements thereof and for commonly controlling the return movements thereof.

1,919,650. ROTARY FURNACE. GEORGE J. HAGAN, Pittsburgh, Pa. Filed Apr. 21, 1931. Serial No. 531,674. 15 Claims. (Cl. 263—7.)



1. In a rotary furnace, an annular treating chamber, a rotating cover having means thereon within the furnace for individually supporting sheets in a radial position within said chamber, and retractible spaced sealing plates effective for providing transverse partitions in the chamber.

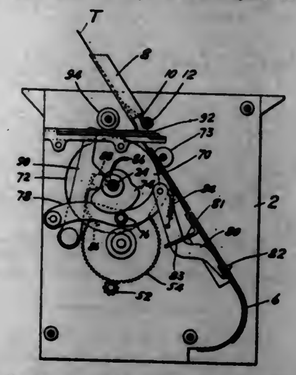
1,919,651. CLUTCH. REUBEN H. HELSEL, Long Island City, N. Y., assignor to General Register Corporation, Brooklyn, N. Y., a Corporation of Pennsylvania. Original application filed May 4, 1926, Serial No. 106,632. Divided and this application filed Nov. 12, 1930. Serial No. 495,026. 4 Claims. (Cl. 192—28.)



1. A clutch mechanism including a rotatable driving member carrying an engaging element, a driven member, a movable pawl carried by the driven member, a controlling element movable relatively to the driven member in opposite directions, and operative in such relative movement to move the pawl into the path of the engaging element, yielding means normally urging the controlling element relatively to the driven member to move the pawl into the path of the engaging element, means for producing opposite relative movement of the controlling element and driven member to cause the pawl to move out of the path of the engaging element, and means operable when the last means is active for preventing relative movement of the controlling element and driven member under the action of the yielding means.

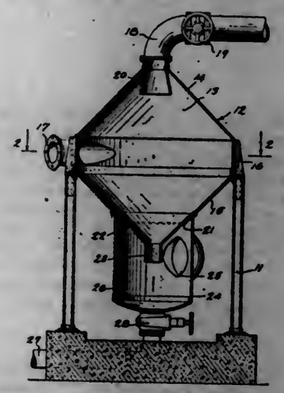
1,919,652. CHECK ISSUING MACHINE. REUBEN H. HELSEL, Long Island City, N. Y., assignor to General Register Corporation, Brooklyn, N. Y., a Corporation of Pennsylvania. Filed May 21, 1931. Serial No. 538,928. 11 Claims. (Cl. 164—48.)

1. A check issuing machine comprising means for guiding a check strip; means for severing a check from the strip; means for presenting a severed check in delivering position; means for effecting a cycle of operation of the machine, said last means including a motor, a switch controlling the operation of the motor, and a member arranged to engage a check in delivering position and effective upon its removal to initiate a cycle of operation;



and means for moving the last named member out of the path of the advancing end of the strip during the operation of the machine.

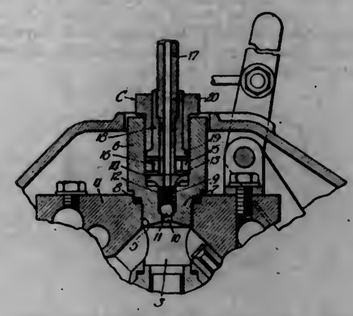
1,919,653. HYDRAULIC SAND EXTRACTOR. RAYMOND A. HILL, Los Angeles, Calif. Filed Nov. 27, 1931. Serial No. 577,588. 1 Claim. (Cl. 210—47.)



A hydraulic sand extractor comprising means providing a chamber having a concave top and bottom, means for discharging water containing solids, such as sand, in a substantially tangential direction between the top and bottom of the chamber so as to cause the water to swirl in the chamber, means providing a water outlet in the top of the chamber at about the center thereof, and means providing a collecting tank beneath the bottom of said chamber and communicating therewith into which sand may pass from said chamber and collect, the portion of the bottom of said chamber defining it from the collecting tank being detached from the remainder of the bottom to permit access to the interior of said chamber, said collecting tank having a manhole therein.

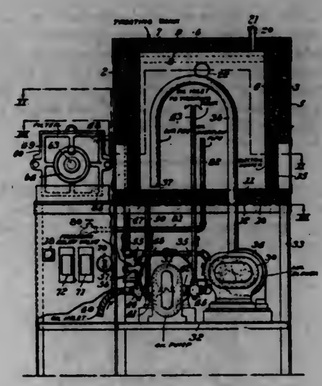
1,919,654. COUPLING. MAX HOFMANN, Waukesha, Wis., assignor to Waukesha Motor Company, Waukesha, Wis., a Corporation of Wisconsin. Original application filed Dec. 11, 1929, Serial No. 413,196. Divided and this application filed Apr. 3, 1931. Serial No. 527,593. 4 Claims. (Cl. 285—161.)

1. In combination in a coupling, a sleeve provided through its inner end with a reduced port, an inner ring loose in the sleeve and provided at its outer face with a rounded boss seating in the inner end of the port, the inner face of the ring being flat, an outer guide ring secured in the sleeve adjacent the inner ring, said inner ring having an opening therethrough communicating with the port and the guide ring having an opening therethrough concentric with the opening of the inner ring, a



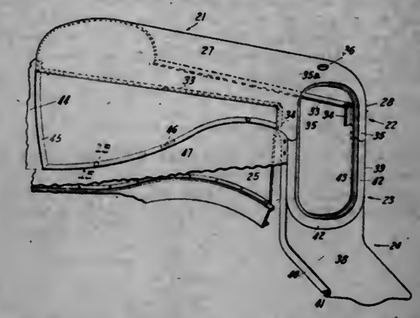
tube slidable through the guide ring and having its inner end seating flat against the inner face of the inner ring about the opening thereof, and means for securing the tube in the sleeve and for holding the inner end of the tube seated tightly against the outer face of the inner ring.

1,919,655. PURIFICATION OF OIL. WALTER G. HOFFMAN, Mount Lebanon, and JAMES B. MILLER, Pittsburgh, Pa., assignors, by mesne assignments, to Bocji Corporation, Pittsburgh Pa., a Corporation of Delaware. Filed July 12, 1929. Serial No. 377,763. 4 Claims. (Cl. 196—16.)



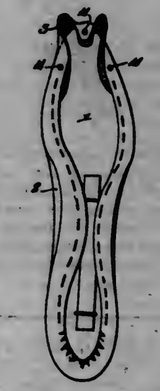
1. The process of treating used lubricating oil containing lighter hydrocarbons and water, comprising heating in a tank to a temperature sufficient to vaporise the lighter hydrocarbons and water, a mixture of oil, sodium carbonate dissolved in water, and diatomaceous earth, introducing adjacent the bottom of the tank and during the entire heating operation air under pressure to agitate the mixture, and thereafter filtering the mixture while continuing to blow air into the tank.

1,919,656. COMBINED HOOD TOP AND RADIATOR SHELL FOR AUTOMOBILES AND THE LIKE. GEORGE E. IRELAND, Toledo, Ohio; Edith May Ireland and Dwight B. Ireland executors of said George E. Ireland, deceased. Filed May 16, 1932. Serial No. 611,601. 11 Claims. (Cl. 180—69.)



1. In an automobile or the like, a combined hood and radiator shell comprising a one piece top for the hood, and a radiator shell having an upper portion formed integral with the hood top and a lower portion formed separate from said upper portion and secured thereto.

1,919,657. SHOE AND PROCESS OF LASTING THE SAME. JACOB S. KAMBORIAN, West Newton, Mass., assignor to Northern Machine Co., Inc., Boston, Mass., a Corporation of Massachusetts. Filed Feb. 16, 1931. Serial No. 515,921. 24 Claims. (Cl. 12—145.)

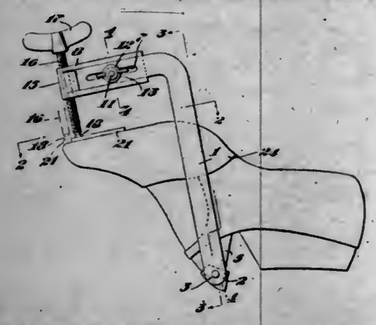


1. That method of lasting the end portion of a shoe which comprises as steps wiping in the marginal portion of the upper at said end by means of the wiper plates of a bed laster, retracting said plates, disposing a heated member upon said end portion of the shoe bottom, and bringing said wiper plates down upon said heated member to cause the latter to level and set the wiped-in portions of the upper.

1,919,658. MANUFACTURE OF SHOES. JACOB S. KAMBORIAN, West Newton, Mass., assignor to Northern Machine Co., Inc., Boston, Mass., a Corporation of Massachusetts. Original application filed Sept. 26, 1930, Serial No. 484,553. Divided and this application filed Aug. 11, 1931. Serial No. 556,375. 20 Claims. (Cl. 12—145.)

1. That process of making shoes which comprises as steps assembling an upper and an imperforate insole upon a last, wiping in the margin of the upper at the toe by

means of lasting machine wipers, retracting the wipers, interposing adhesive between the wiped-in portion of the upper and the opposed surface of the insole, applying flattening pressure, while the shoe is in the lasting machine, locally to substantially the entire mass of the wiped-in toe material by means movable relatively to the lasting



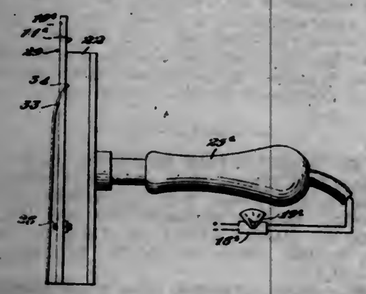
wipers while leaving the shoe bottom exposed rearwardly of its toe portion, maintaining such flattening pressure, without penetration of the insole by pressure maintaining parts, for a time sufficient to permit the adhesive to set, and removing the shoes from the lasting machine to make room for another, while still maintaining such pressure.

1,919,659. METHOD OF LASTING SHOES. JACOB S. KAMBORIAN, West Newton, Mass., assignor to Northern Machine Co., Inc., Boston, Mass., a Corporation of Massachusetts. Filed Oct. 15, 1931. Serial No. 568,922. 7 Claims. (Cl. 12—145.)



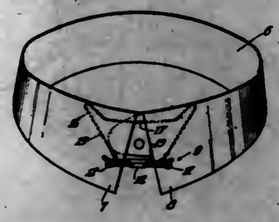
1. That method of lasting an end portion of a shoe which comprises as steps wiping in the marginal portion of the upper at said end by means of the wiper plates of a bed laster, retracting said plates, introducing a leaf of adhesive material between the insole and the wiped-in upper material at said end portion, and applying pressure by means of the wipers sufficient to level and set the wiped-in portion of the upper.

1,919,660. SHOE LASTING APPARATUS. JACOB S. KAMBORIAN, West Newton, Mass., assignor to Northern Machine Co., Inc., Boston, Mass., a Corporation of Massachusetts. Filed July 28, 1932. Serial No. 625,285. 22 Claims. (Cl. 12—107.)



1. Apparatus for use in lasting shoes in a bed lasting machine wherein the marginal portion of a shoe upper is folded in over an insole mounted on a last, said apparatus comprising a portable pressure applying device including a plate shaped to overlie and to contact with substantially all of the folded-in material across the entire width of the forepart of the shoe bottom, said plate being stiff and rigid, said device also including a heater element permanently disposed in heat transferring relation to the plate, and a handle for manipulating the device.

1,919,661. COLLAR SUPPORT. SAMUEL B. LAVICK, Chicago, Ill. Filed July 18, 1930. Serial No. 468,840. 5 Claims. (Cl. 24—61.)



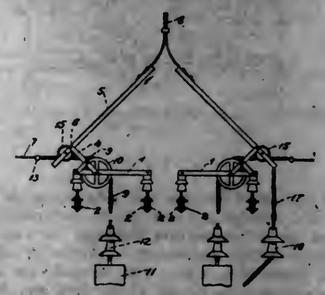
1. A device for supporting a collar comprising means for attachment to the lapels of a collar to retain them in predetermined position, a resilient support having arms slidably mounted on said means, said arms being resiliently urged against the edges of said lapels and extending upwardly under the lapels between the lapels and neckband, and a connecting portion connecting said arms.

1,919,662. LOCKING SLIDER. ROBERT C. LEGAT, New Britain, Conn., assignor to G. E. Prentice Manufacturing Company, New Britain, Conn., a Corporation of Connecticut. Filed Jan. 6, 1932. Serial No. 584,996. 26 Claims. (Cl. 24—205.)



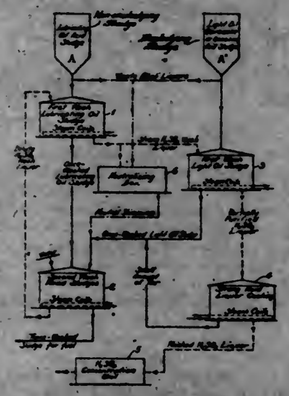
1. A slider for use with separable fasteners of the kind having opposed series of interengageable fastener elements, said slider having guide channels for the reception of the opposed series and comprising spaced front and rear wings united by a neck, and slider retaining means comprising a ball mounted in the slider, and means for forcing the ball against the fastener elements.

1,919,663. SAFETY DEVICE FOR OVERHEAD ELECTRIC LINES. MARIE ERNEST MATHIEU, Alencon, France. Filed Mar. 8, 1933, Serial No. 660,072, and in France Mar. 9, 1932. 8 Claims. (Cl. 200—79.)



1. A safety device for overhead electric lines which comprises in combination, a conductor forming a section of the line, pivoting contact means for electrically connecting said section of the line to another conductor, a counterweight mechanically connected to said section of the pipe, and means, operatively connected with said counterweight, for causing said contact means to pivot out of contact with the second mentioned conductor when the counterweight has moved a distance greater than a predetermined value.

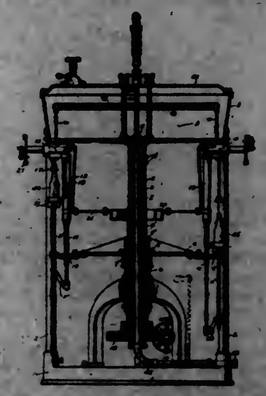
1,919,664. PROCESS FOR TREATING ACID SLUDGES. DAVID R. MERRELL, Long Beach, and PHILIP S. CLARKE, Berkeley, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a Corporation of California. Filed Jan. 28, 1929. Serial No. 335,626. 19 Claims. (Cl. 23—173.)



10. A method for recovering acid from light oil sludges which tend to emulsify when treated with fresh water, comprising treating said sludges with a wash liquor sufficiently strong in acid to prevent emulsification, and heating the mixture at an elevated temperature to cause separation of tarry constituents from the liquor.

12. A method of treating acid sludges which comprises mixing an acid sludge which emulsifies when washed with water with an acid sludge which will not emulsify when washed with water and washing the mixture with water.

1,919,665. BOTTLE FILLING MACHINE AND METHOD. FREDERICK W. MÜLLER, Hoboken, N. J., assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 24, 1930. Serial No. 497,665. 21 Claims. (Cl. 226—115.)



4. In combination, a beverage tank, conduits for each of a procession of bottles communicating beverage under pressure thereto from the tank, means confining gas under pressure including a second conduit for each bottle, a valve for each bottle sequentially operable to successively open the gas supply and beverage supply conduits, pressure regulating means maintaining the gas at a predetermined positive pressure differential relative to the beverage flow inducing pressure, said differential being such as to opposingly retard beverage flow during filling and substantially effect a pressure balance between the gas and bottled beverage upon a predetermined level thereof, said gas confining means receiving beverage displaced bottle gas and maintaining it isolated from the beverage in said tank.

1,919,666. CASTER AND THE LIKE. OLIVER WEBSTER PATTERSON, Springfield, Mass., assignor to Jarvis & Jarvis, Inc., Palmer, Mass., a Corporation of Massachusetts. Filed Aug. 18, 1930. Serial No. 476,016. 3 Claims. (Cl. 16—38.)



1. In a device of the character described for use in connection with a hollow socket attaching member, a caster bracket having separated wheel supporting members and a portion connecting the supporting portions, said connecting portion having an opening therethrough, bearing means associated with the connecting portion and having an opening aligned with the opening in the connecting portion, a caster stem extending through said openings and rotatably mounted therein and having means by which it may be turned and adapted to extend into the socket of the attaching member, resilient washer means on the stem beyond the bearing means having a part which is adapted to extend into the socket and a part which is adapted to underlie the end of the socket, clamping means on the stem for compressing the resilient washer means, and interengaging means between the clamping means and stem adapted to compress the resilient means on the turning of the stem to cause the resilient means to frictionally engage the internal walls of the socket to hold the united parts therein.

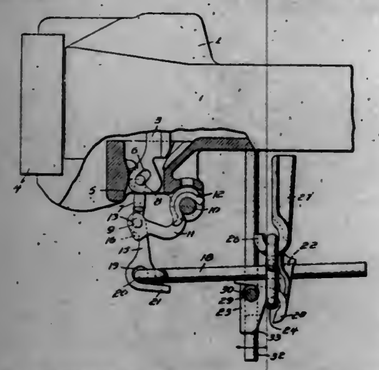
1,919,667. MERCHANDISE DISPENSING APPARATUS. EDWARD J. RAYMOND, Seattle, Wash. Filed Feb. 24, 1931. Serial No. 517,720. 9 Claims. (Cl. 312—63.)



8. In merchandise dispensing apparatus, a cabinet formed from a material blank trisected by scorings to

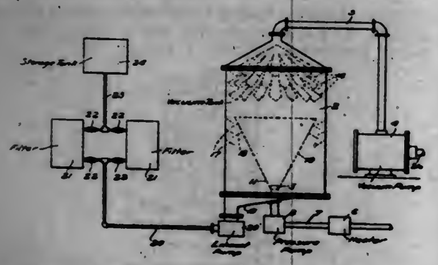
separate the same into a body portion and wing elements adapted to be bent at an angle to the body portion for supporting said body portion in an upright position, said blank having an apertured flap adapted to be bent at an angle to the body portion stamped from the body portion and connected therewith along one transverse edge, a merchandise-holding magazine engageable through the aperture of said flap for supporting the magazine, and ejection mechanism for delivering articles from said magazine carried by said cabinet.

1,919,668. COUPLER OPERATING MECHANISM. WILLIAM J. REGAN and ALBERT J. LENHERR, Pittsburgh, Pa., assignors to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 4, 1931. Serial No. 513,428. 16 Claims. (Cl. 213—166.)



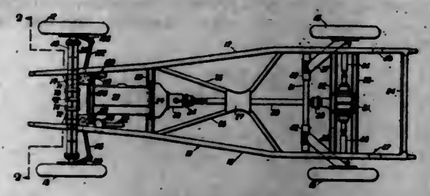
1. In mechanism of the character indicated, the combination with a car coupler having a knuckle and provided with a lock for the knuckle and having an opening in the underside of its head affording access to said lock, of a rotatable member pivotally supported by and movable with the coupler, said rotatable member being positioned beneath the coupler head and extending forwardly from its center of rotation, a plurality of relatively movable link members each pivotally connected to said rotatable member at a common point, one of said link members extending upwardly from said rotatable member and being movably connected to said lock and one of said link members extending downwardly from said rotatable member, and means for actuating said downwardly extending link member to cause an uncoupling rotation of said rotatable member.

1,919,669. HYDROCARBON MINERAL OIL. CLARENCE J. RODMAN and RUSSELL P. DUNMIRE, Alliance, Ohio, assignors to The Buckeye Twist Drill Company, Alliance, Ohio, a Corporation of Ohio. Filed Apr. 30, 1929. Serial No. 359,301. 7 Claims. (Cl. 196—15.)



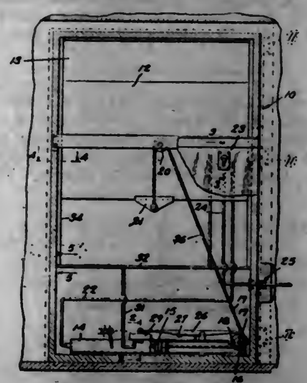
1. Mineral hydrocarbon oil produced by heating the oil to a temperature of 90–160° F. and spraying it under superatmospheric pressure into a rarefied atmosphere maintained under a high vacuum to release moisture and gases from the oil, and separating the moisture and gases from the oil, the oil having the property of increasing in dielectric strength upon exposure to moist atmosphere.

1,919,670. VEHICLE SPRING SUSPENSION. DELMAR G. ROOS, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed June 8, 1932. Serial No. 615,992. 4 Claims. (Cl. 280—124.)



1. A spring suspension for supporting the front end of a vehicle chassis frame upon the front wheels of the vehicle comprising, a cross member formed of two channel-shaped members, each having flanges and an integral web placed back to back extending between the side members of the chassis frame, wheel carrying brackets to which the front wheel spindles are swively connected, a plurality of transverse springs connected at their ends to said wheel carrying brackets and extending longitudinally of said cross member above and below the same, tie bolts extending vertically through the flanges of said cross member, and apertured spring hangers fitted upon the ends of said tie bolts, said tie bolts being fitted with threaded nuts to urge said spring hangers toward said cross member to clamp said springs therebetween.

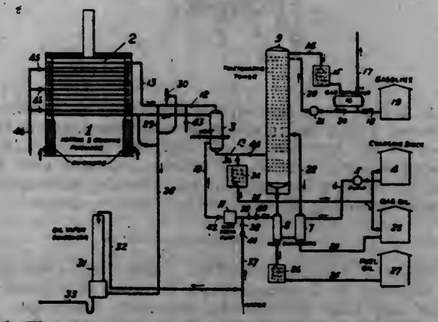
1,919,671. AUTO WINDOW OPERATING MEANS. WALTER F. SHETZLINE, Los Angeles, Calif. Filed Feb. 17, 1932. Serial No. 593,524. 4 Claims. (Cl. 268—125.)



1. In combination with a window frame having a window movable therein, expansible means mounted upon the frame and normally expanded into engagement with the window to hold the window in adjusted position, said expansible means being capable of being contracted to release the window by the presence of a vacuum, and means for providing a partial vacuum to contract said means.

4. In combination with a window frame having a window movable therein, a cylinder, a piston exposed to air pressure on one side located within the cylinder, means for forming a partial vacuum on the other side of the piston, means operable by the piston for elevating the window in the frame including a chain connected to the piston and to the window and trained over a sprocket, a brake for holding the window in elevated position, vacuum operable means for causing the brake to release the window when a partial vacuum is formed in the cylinder, and means for causing the vacuum operable means to be operated without creating a vacuum in the cylinder.

1,919,672. PROCESS FOR COOLING AND SAFEGUARDING OIL CRACKING APPARATUS. HENRY THOMAS, Ridley Park, CLARENCE H. THAYER, Media, and FREDERICK A. THORNGATE, Chester, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Mar. 20, 1930. Serial No. 437,352. 2 Claims. (Cl. 196—1.)



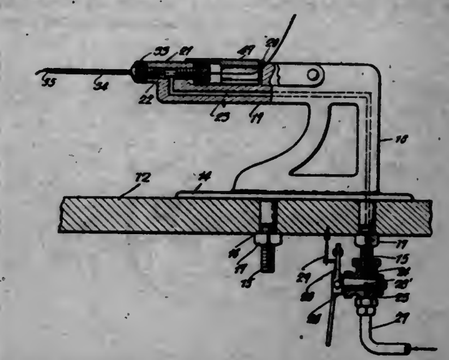
1. The process of cooling the heating coil of an oil cracking apparatus in which hydrocarbon oil under pressure flows continuously through a pipe coil which is subjected to heat sufficient to raise the oil to a cracking temperature, and in which cracked hydrocarbon flows towards a fractionating equipment, which comprises discontinuing the supply of heat to the coil, flowing water under pressure through heat interchanging apparatus, wherein the water is heated by fluid from the coil, and thence through the coil, thereby effecting conversion of water into steam and driving oil ahead of the steam and water out of and beyond the coil and beyond the heat exchanging apparatus, and at about the time that steam begins to outflow from the pipe coil by-passing the steam, then continuing the flow of water through the pipe coil and by-passing the same until the pipe coil has cooled sufficiently to permit manual operation thereon, and then venting the pipe coil intermediate its ends to quickly dissipate the pressure therein.

1,919,673. PHOTOGRAPHIC RELIEF. LEONARD T. TROLAND and ROLAND D. EATON, Cambridge, Mass., assignors, by mesne assignments, to Technicolor, Inc., New York, N. Y., a Corporation of Delaware. Filed Sept. 4, 1931. Serial No. 561,137. 10 Claims. (Cl. 95—5.6.)



1. The method of controlling the dye-absorbing properties of a photographic film which comprises treating the latent image of a silver haloid emulsion in a hardening developing solution, oxidising the solution remaining in the gelatine, and not consumed for development, in a separate bath to a predetermined degree, thereby regulating the thickness of a layer of relatively non-dye-absorbing gelatine produced by said oxidation process and filling the interstices between image forming dye-absorbent gelatine particles produced by the developing solution, in relation to the depth of the layer formed by said dye-absorbent particles.

1,919,674. PNEUMATIC PUFFING MACHINE. LASZLO WENCZEL, New York, N. Y., assignor to Sterling Airbrush Co., New York, N. Y. Filed Jan. 21, 1931. Serial No. 510,224. 7 Claims. (Cl. 112—78.)



6. A pneumatic puffing machine comprising a table, a support fixedly mounted upon the top of said table, a tubular injector member held by said support and extending therefrom, a compressed air duct leading to the inner end of said tubular injector member, and a manually operated air valve in said air duct for controlling the flow of compressed air therethrough, and a regulating valve for controlling the flow of air from said air duct to the tubular injector member.

1,919,675. INVERTASE PREPARATION AND METHOD OF MAKING THE SAME. LEO WALLERSTEIN, New York, N. Y., assignor to Wallerstein Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 30, 1929. Serial No. 389,617. 11 Claims. (Cl. 195—20.)

1. The process of preparing an invertase preparation from yeast, which consists in preparing an autolyzed yeast liquor, filtering this liquor, precipitating an enzymatic containing substance from this liquor by the addition thereto of dimethyl carbinol, recovering the precipitated invertase containing product, and standardising this product to a desired standard of invertase activity.

5. A yeast product containing invertase and a polyhydric alcohol, standardized as to its active invertase principle.

1,919,676. METHOD OF MAKING INVERTASE PREPARATIONS. LEO WALLERSTEIN, New York, N. Y., assignor to Wallerstein Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 30, 1931. Serial No. 566,163. 6 Claims. (Cl. 195—20.)

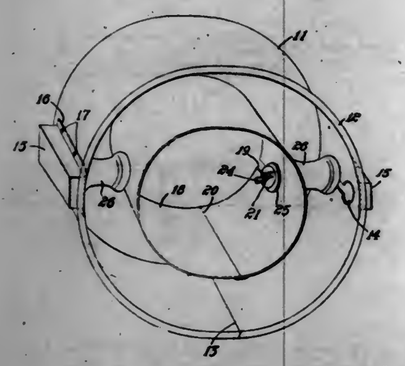
1. Process of preparing an invertase preparation from yeast, which comprises preparing a yeast liquor containing active invertase, concentrating this liquor at temperatures below 40° C., filtering the concentrate, and adding glycerine to bring the concentrate to a glycerine content of from 30 to 70%, so as to produce an invertase preparation containing glycerine of standardized activity.

1,919,677. PROTECTED METAL ARTICLE. JAMES HOWARD YOUNG, Pittsburgh, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 7, 1930. Serial No. 473,720. 2 Claims. (Cl. 154—45.9.)



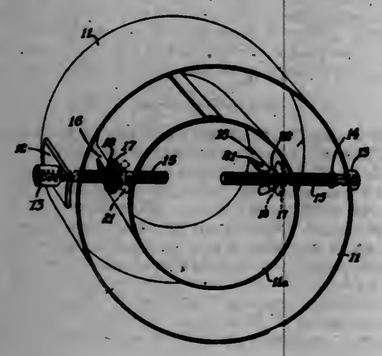
1. A protected metal sheet for building purposes having a rubber-covered metal sheet provided with a fire-resisting and weather-resisting exterior surface of chlorinated-diphenyl.

1,919,678. ADJUSTABLE FLUE CONNECTION. ANTON YURKOVITCH, Pittsburgh, Pa. Filed Dec. 29, 1931. Serial No. 583,629. 14 Claims. (Cl. 126—314.)



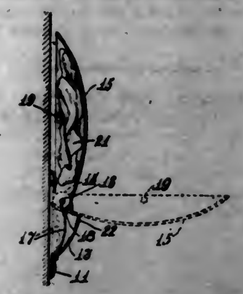
1. In an adjustable flue connection as an article of manufacture, a ring adapted to be embedded in the brickwork of a chimney, having diametrically opposite key-hole slots therein, means for preventing rotatory movements of said ring in said brickwork and for protecting said key-hole slots, and radial means extending from said key-hole slots for maintaining a section of stove-pipe in predetermined relationship with said ring.

1,919,679. ADJUSTABLE FLUE CONNECTION. ANTON YURKOVITCH, Pittsburgh, Pa. Filed Mar. 7, 1932. Serial No. 597,835. 14 Claims. (Cl. 126—314.)



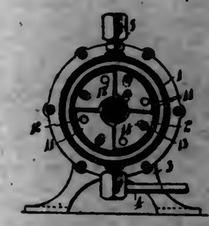
1. An adjustable flue connection comprising a ring member provided with diametrically opposite plates having hollow threaded bosses extending therefrom, there being apertures in said ring aligned with said bosses, screw-threaded bolts extending through said apertures and into said bosses, a stove pipe or flue section being adapted to be positioned on said bolts in such a manner as to accommodate stove pipe or flue sections of various sizes and in various positions, washers on said bolts adapted to snugly abut the exterior of said stove pipe or flue section and nuts on said bolts snugly adapted to abut the interior of said pipe or flue section.

1,919,680. FOOT REST. FRED A. ALSUP, Chicago, Ill. Filed Feb. 12, 1931. Serial No. 515,165. 2 Claims. (Cl. 15—265.)



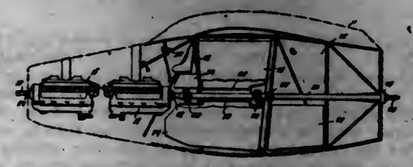
1. A shoe shine foot support comprising an attaching member, a foot rest pivotally mounted intermediate the ends of the foot rest on the attaching member, and a spring reacting against the attaching member and the end of the foot rest adjacent the attaching member for resiliently urging the rest to an inoperative position.

1,919,681. LIQUID HEATER. JOHN W. ANDERSON, Brooklyn, N. Y.; Emma Maria Anderson administratrix of said John W. Anderson, deceased. Filed Mar. 7, 1931. Serial No. 520,951. 5 Claims. (Cl. 122—26.)



3. In a liquid heater, the combination of an annular hollow stator forming a liquid jacket and provided with an inlet and outlet; a rotor within the stator; a rubbing shoe carried by the rotor and adapted to move outwardly under centrifugal force as the rotor rotates to frictionally engage the inner face of the stator; and means carried by the rotor for yieldingly resisting the outward movement of said shoe.

1,919,682. PROPELLING MECHANISM FOR AIRPLANES. GIUSEPPE M. BELLANCA, New Castle, Del. Filed Jan. 10, 1931, Serial No. 507,982. Renewed Dec. 12, 1932. 4 Claims. (Cl. 244—25.)



1. An airplane comprising in combination a fuselage, a fuel tank mounted within said fuselage and occupying the major part of the cross section of said fuselage for a

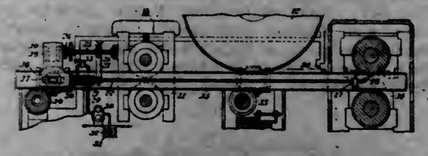
portion of its length, said tank being formed with an opening in both its forward and rearward walls, a tubular member extending through the tank and being sealed to the walls of the tank around each of said openings, and a propeller shaft line extending a major portion of the length of the fuselage and passing through said openings and said tubular member.

1,919,683. VEHICLE WHEEL. HENRY C. BULLARD, Houston, Tex. Filed Jan. 4, 1930. Serial No. 418,642. 1 Claim. (Cl. 152—20.)



The combination with a wheel having a thin, metal rim provided with holes spaced apart on a central line therearound, and which extend entirely through the rim and which are contracted inwardly toward the axis of the rim, the metal around each hole being deflected inwardly providing a wide, annular, inwardly tapering, face, a pneumatic tire on the rim having inside projections which are shaped to conform to the contour of and to fit closely within said holes and to wedge tightly against said face and whose inner ends are approximately flush with the inside of the rim.

1,919,684. PIPE FINISHING METHOD AND APPARATUS. JAMES V. CAPUTO, Girard, Ohio. Filed July 8, 1931. Serial No. 549,443. 7 Claims. (Cl. 219—6.)



1. In an electric welding apparatus, a welding electrode and planishing rolls for smoothing the external burr formed at the weld, means for supplying cooling fluid to the interior of the welded seam, and means actuated by pipe moving through the apparatus for maintaining the flow of fluid.

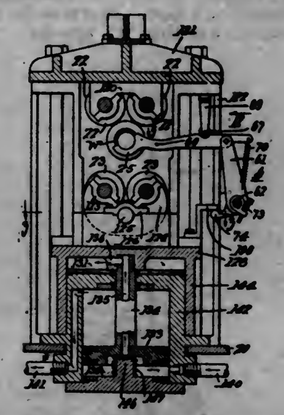
1,919,685. DOOR CONSTRUCTION. MILTON L. CORNELL, New York, N. Y., assignor to Cornell Iron Works, Inc., Long Island City, N. Y., a Corporation of New York. Filed Mar. 23, 1932. Serial No. 600,618. 22 Claims. (Cl. 189—46.)



1. An overhead acting door comprising a plurality of flexibly articulated superposed panel frames, one of said

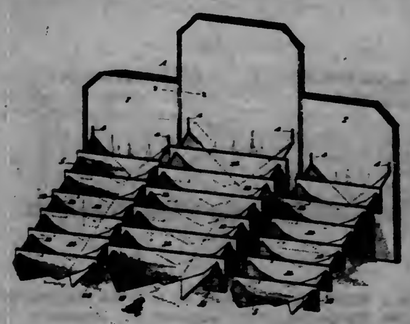
frames having spaced rails and stiles extending between and connecting them, said rails being in the form of an open backed sheet metal tube having inturned flanges, the open back of said tube being located along an outer surface of the finished frame to afford access to the interior thereof during assembly.

1,919,686. MACHINE FOR ROLLING TUBULAR PRODUCTS. MARK H. DAMERELL, Worcester, Mass., assignor to Wyman-Gordon Company, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 18, 1930, Serial No. 482,845. Renewed Oct. 6, 1932. 18 Claims. (Cl. 80—23.)



18. A machine for rolling and swaging tubular work which comprises a mandrel, means to rotatably support said mandrel, a plurality of rolls spaced about said mandrel, means to rotate said rolls, and means to cause said rolls to relatively approach and forcibly engage the work on said mandrel, means for preliminarily supporting the work in alignment with the axis of the mandrel, means for moving said mandrel relative to the work, means including bearings for said mandrel mounted for swinging movement about an axis parallel to the axis of the mandrel whereby said mandrel is self-adjustable, and means for automatically withdrawing said supporting means from the work as the swaging rolls are advanced toward the work and mandrel.

1,919,687. KNOCKDOWN DISPLAY RACK. IRVING A. DELINK, Denver, Colo. Filed July 30, 1932. Serial No. 626,997. 3 Claims. (Cl. 211—72.)



1. A knock-down display rack made of fibre board and comprising an upright back made up of hinged sections having oppositely disposed slots adjacent their side edges and above their horizontal centers, rack members having

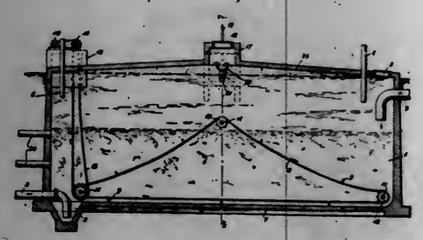
hooks upon opposite corners of one end for an interlocking engagement with said slots, said rack members extending at a downward inclination from said back, the lower edge of said back and the lower ends of said rack member resting upon a support; slits in the side edges of said rack members which are vertically disposed when the rack members are in inclined positions, and transverse partition strips for the rack members having an interlocking engagement with oppositely disposed slits in the said rack members to form a series of pockets which are arranged in tiers.

1,919,688. BRANDING DEVICE. MORRIS DEUTSCH, Detroit, Mich., assignor to Swift and Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 28, 1931. Serial No. 565,495. 3 Claims. (Cl. 101—5.)



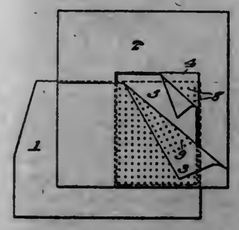
1. In a device of the character specified comprising a frame, distributer and marker, supporting means for the marker formed with longitudinal slots and fastening means engaging the frame and passing through the slots of the supporting means for adjustably connecting the marker to the frame, whereby provision is had for positioning the marker with reference to the distributer.

1,919,689. SLUDGE DIGESTION TANK. HENRY E. ELROD, Houston, Tex. Filed Apr. 23, 1931. Serial No. 532,375. 4 Claims. (Cl. 210—8.)



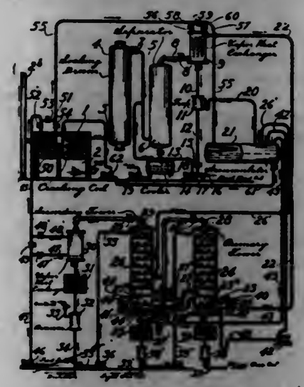
1. In a sludge digestion tank, an inlet for the reception of liquid sludge, an outlet adjacent the bottom of the tank for the eduction of settled sludge, a gas-tight cover for said tank, a gas collecting dome disposed in and above said cover, means for withdrawing the gases collected in said gas dome, an outlet for supernatant liquor and scum segregated from said liquid sludge disposed within said gas dome and with the mouth thereof above the normal level of the supernatant liquor, and a liquid seal trap for sealing said outlet against the escapement of gases from within the tank and from the ingress of air from the exterior to the interior of the tank.

1,919,690. METHOD OF AND MEANS FOR PERMANENTLY WAVING HAIR. RALPH L. EVANS, New York, N. Y., assignor to Zotos Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 21, 1932. Serial No. 587,890. 34 Claims. (Cl. 132—36.2.)



1. Means for waving hair including a chemical which, when moistened, will generate sufficient heat to impart a permanent wave to the hair and means for controlling the natural development of the heat without raising its temperature.

1,919,691. METHOD AND APPARATUS FOR CRACKING OIL. CHARLES RINGGOLD EWING, Toronto, Ontario, and THOMAS MONTGOMERY, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company, a Corporation of Delaware. Filed Mar. 21, 1929. Serial No. 348,708. 4 Claims. (Cl. 196—94.)



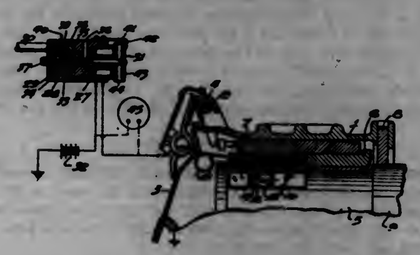
4. In the rectification of a hydrocarbon distillate, the improvement which comprises passing it substantially in vapor form through a series of liquid oil reboiling zones, then through the same number of corresponding rectifying zones in the same succession, said rectifying zones being out of vapor contact with the reboiling zones, supplying to each of the reboiling zones liquid oil formed by condensation of vapors passing through the corresponding rectifying zone, directly contacting the liquid and vapor in the reboiling zone to reboil the liquid by the heat content of the vapor, and removing liquid from each reboiling zone and uncondensed vapor from the last rectifying zone.

1,919,692. PROCESS OF MAKING FROZEN CONFECTIONS. HENRY FALKENDORF, Los Angeles, Calif. Filed July 15, 1929. Serial No. 378,468. 6 Claims. (Cl. 107—54.)



6. A process of affixing a handle member to a frozen confection which consists in coating at least a part of the handle member with gelatin, and bringing the handle member into contact with the frozen confection whereby the handle member is attached to the confection.

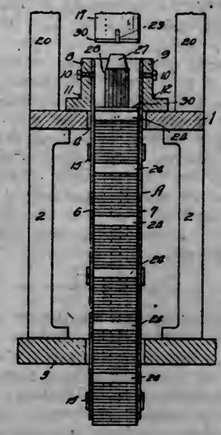
1,919,693. HOT BOX CONTROL. HERBERT W. FAUS, White Plains, N. Y. Filed Oct. 18, 1930. Serial No. 489,652. 6 Claims. (Cl. 246—169.)



1. In combination with a bearing, a tube threadably connected thereto, a contact element at one end of said tube, a cooperating contact element normally spaced from and spring pressed toward said first-mentioned contact element, a fusible plug preventing release of said second contact element, said plug being adapted to melt when the bearing reaches a predetermined temperature and allow the spring to press the second contact element into engagement with the first to complete an electric circuit, a solenoid energized upon completion of said circuit, an armature actuated upon energization of said solenoid, and a valve actuated by said armature for releasing compressed air.

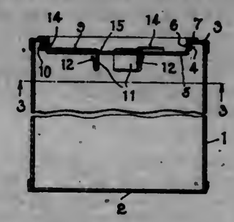
1,919,694. MACHINE FOR THE MANUFACTURE OF LAMINATED FIBROUS PULLEYS. GEORGE R. FOX, St. Louis, Mo. Filed Aug. 29, 1930. Serial No. 478,770. 7 Claims. (Cl. 154—1.)

4. An apparatus for making pulleys having tubular metallic cores and a laminated fibrous body comprising a two-piece tubular member, means for supporting said member in a vertical position, means for varying the inside diameter of the tubular member, an initial plate adapted to be positioned in the tubular member, means for gauging the position of said plate, a vertical post carried by the plate for supporting the core of the pulley within the tubular member and vertically movable means for depositing one fibrous disk at a time within the tubular member around the supported core, said pulleys adapted to be



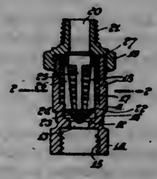
formed one above the other with a plate separation between each pulley and said pulleys adapted to be discharged from the lower end of the tubular member.

1,919,695. RECEPTACLE CLOSURE. BENJAMIN F. FREEMAN, Long Island City, N. Y. Filed Nov. 3, 1932. Serial No. 641,102. 8 Claims. (Cl. 220—55.)



1. The combination with a receptacle provided with an opening and a closure therefor, of a fastening device for locking said closure in its closed position comprising a substantially rigid bar member extending along the exterior of said closure and beyond the same and engaging the inner surface of said receptacle, and additional means formed on said bar member for maintaining said member in locked position.

1,919,696. DRAIN VALVE. ROBERT H. GEORGE, Philadelphia, Pa. Filed Aug. 21, 1929. Serial No. 387,306. 6 Claims. (Cl. 121—134.)



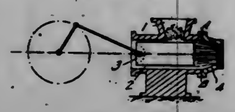
1. An automatic drain valve comprising a casing having an internal valve chamber, a valve seat at the bottom of said chamber, the upper portion of the chamber being counterbored, a valve member mounted in said chamber,

said valve member having a body portion provided with a face complemental to the valve seat, the diameter of the valve body being slightly less than the diameter of the lower portion of the valve chamber, the valve member having a plurality of arms extending upwardly from the body portion, the outer faces of said arms being of a diameter corresponding to the lower portion of the valve chamber, the valve member having a portion carried by the upper ends of said arms, the external surface of said portion lying in a cylinder of a diameter corresponding to the diameter of the counterbored portion of the valve chamber, a spring adapted to support the valve member in its elevated position, said spring being seated in the counterbored portion of the valve chamber, the casing structure having an inlet communicating with the valve chamber above the body portion of the valve member, and having an outlet communicating with the valve chamber through the valve seat.

1,919,697. IMPREGNATED PRODUCT AND PROCESS FOR MAKING THE SAME. FRAZIER GROFF, Charleston, W. Va., assignor to Carbide & Carbon Chemicals Corporation, a Corporation of New York. Filed Oct. 26, 1931. Serial No. 571,288. 17 Claims. (Cl. 92—21.)

1. A process for making vinyl resin impregnated cellulosic products which comprises forming a suspension of the cellulosic material in a liquid medium by means of agitation, introducing a vinyl resin in a finely divided state into said suspension, continuing the agitation until the vinyl resin and cellulosic material are substantially uniformly dispersed throughout the suspension, separating the solid material from the liquid medium, and drying the vinyl resin impregnated cellulosic composition.

1,919,698. APPARATUS FOR THE AGGLOMERATION OF SOLID CARBON DIOXIDE. WALDEMAR HESSLING, Geneva, Switzerland, assignor to Elvire Hessling-De Werner, Veytaux-Territet, Switzerland. Filed July 21, 1928, Serial No. 294,520, and in Switzerland July 27, 1927. 1 Claim. (Cl. 62—121.)

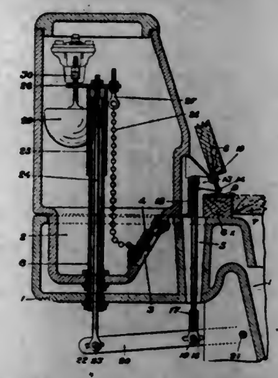


Apparatus for the agglomeration of solid carbon dioxide comprising, in combination, a hopper for receiving same, a compression chamber beneath the hopper to receive the solid carbon dioxide gravitating from the latter, a piston in said chamber for compressing said solid carbon dioxide into agglomerated form, a crank shaft to drive said piston, an open discharge duct extending from said compression chamber, and a nozzle on one end of said duct provided with a plurality of openings.

1,919,699. REFINING OF COPPER. JOSEPH PIERRE LEEMANS, Hoboken-Lez-Anvers, Belgium, assignor to Societe Generale Metallurgique de Hoboken, Hoboken-Lez-Anvers, Belgium. Filed June 22, 1931, Serial No. 546,155, and in Germany Jan. 3, 1931. 2 Claims. (Cl. 75—62.)

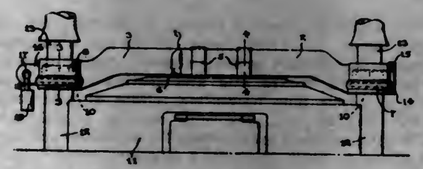
1. A process for the preliminary refining of black copper containing a high percentage of impurities of the iron group consisting of iron, nickel and cobalt, comprising the smelting of the black copper inside a shaft furnace together with slag containing copper oxides and without the addition of lime, so as to concentrate on the one side the copper, and on the other side the said impurities inside the shaft furnace, as set forth.

1,919,700. WATER CLOSET. OLOV LUNDBERG, Saltsjobaden, Sweden. Filed Mar. 26, 1931, Serial No. 525,554, and in Sweden Apr. 2, 1930. 5 Claims. (Cl. 4—13.)



1. A water closet comprising a bowl; a water chamber directly located on the closet bowl, said chamber having a supply cock and an outlet valve, a seat and a seat lid; and connecting means between the seat lid on one hand and the supply cock and the outlet valve on the other hand, said connecting means, when the seat lid is in its lowermost position, being actuated by the weight of the lid to open the outlet valve and effect the flushing, the supply cock being held closed and the outlet valve being open as long as the lid remains in the lowermost position, the connecting means between the seat lid and the supply cock being adapted to be released from the lid when the latter is raised from its lowermost position to cut off the supply cock, said connecting means also being adapted to be automatically adjusted, when released from the lid, thereby permitting the supply cock to open automatically without being actuated either by the lid or by the seat.

1,919,701. METAL LOCK FOR GAS METERS. ONOFRIO MORREALE and SALVATORE GUARINO, Rochester, N. Y., assignors of one-third to Roy Colton Moore, Rochester, N. Y. Filed Sept. 22, 1932. Serial No. 634,430. 2 Claims. (Cl. 70—122.)



1. A lock for gas meters comprising two lateral separable members fitted flat against each other and each composed of overlapping sections slidably connected with each other, sectional cups carried by the said members at each end thereof and forming casings to fit over the coupling nuts of a meter, means for hinging the cup sections together at one end of the lock to permit lateral separation of the members, and means for securing the cup sections together at the other end of the lock.

1,919,702. FLUSH DOOR. WALTER P. MURPHY, Ridgway, Pa., assignor to Hyde-Murphy Company, Ridgway, Pa., a Corporation of Pennsylvania. Filed May 6, 1931. Serial No. 535,509. 8 Claims. (Cl. 20—25.)

1. A structure of the class described comprising a core embodying side core stiles, spaced cross rails anchored to

said side core stiles, unanchored intermediate cross rails engaging said side core stiles arranged between said anchored cross rails, and an expansion joint interposed between and forming part of said anchored and said unanchored cross rails.



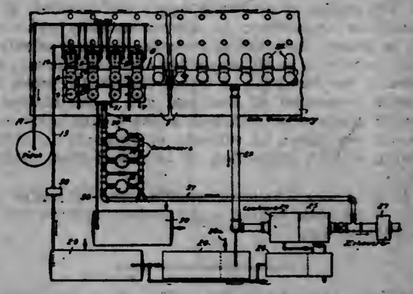
1,919,703. APPARATUS FOR WATERING OR SPRAYING GARDENS AND THE LIKE. VIGGO NIELSEN, Balwyn, Melbourne, Australia. Filed Aug. 1, 1931, Serial No. 554,529, and in Australia Aug. 1, 1930. 16 Claims. (Cl. 299—50.)



1. Improved self propelling watering or spraying apparatus consisting in the combination of a mobile carriage or frame carrying a reaction sprinkler or spraying device and a hose reel, a flexible water supply hose connected from a source of supply to the reel and adapted to be wound thereon, a conduit arranged to supply water to the sprinkler from the reel, means actuated by the sprinkler upon flow of water through the hose for turning the reel to wind the hose thereon and cause the apparatus to be traversed over a desired area, and steering means associated with said carriage and including a guide member adapted to track along the said hose, whereby the carriage is automatically steered in a predetermined straight, curved or tortuous path according to the lay out of the said hose upon the ground.

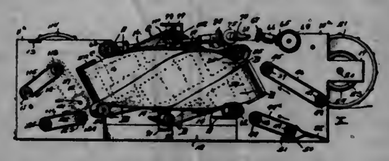
1,919,704. DISTILLATION OF TAR AT A COAL DISTILLATION PLANT AND APPARATUS THEREFOR. FRED OSBORNE, Birmingham, Ala., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 26, 1927. Serial No. 171,158. 6 Claims. (Cl. 202—30.)

5. The improvement in the operation of by-product recovery systems of coal distillation plants having a number of ovens which comprises collecting and cooling coal distillation gases from part of the ovens to separate tar therefrom, distilling the tar so separated by bringing it into direct and intimate contact with hot coal distillation gases evolved from part of the ovens with resulting production of a pitch residue and of gases enriched in oil vapors from the distillation, cooling the resulting gases and vapors to separate the distillate therefrom, and regulating the number of ovens from which the gases are cooled to separate tar and the number of ovens of which the gases are employed for tar distillation so that all of the tar separated from the gases is distilled by direct contact with the remaining gases and increasing or decreasing the quantity of gases so employed so that the gases not employed for the distillation of tar are cooled



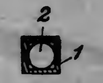
for the separation of tar therefrom, and so that all of the tar produced at the battery is distilled and converted into distillate and pitch, and combining the gases from which the tar has been separated and the gases from which the distillate has been separated to form a combined gas for further treatment.

1,919,705. WEED OR QUACK GRASS PLOW. MARTIN J. PETERSEN, Canyon, Minn. Filed Aug. 18, 1932. Serial No. 629,354. 7 Claims. (Cl. 97—10.)



1. An agricultural implement of the character described including a wheeled supporting frame, four longitudinally extending flexible conveyor belts, rollers on which the conveyer belts are supported, the inner runs of the belts being related to each other to define a transversely rectangular space, the belts extending spirally around a longitudinal axis common to all of the belts, each belt making a turn of approximately 180°, a shovel blade at the forward end of the machine, and means for discharging the sod slice cut by the shovel blade on to the forward ends of said belts with the grass of the slice upward.

1,919,706. MEANS FOR PLAYING A GAME OF SKILL. CHARLES BURTON WINZER, Balham, London, England, assignor to Ernst Paul Lehmann, Brandenburg/Havel, Germany. Filed Apr. 10, 1931, Serial No. 529,217, and in Germany Jan. 24, 1930. 1 Claim. (Cl. 273—96.)



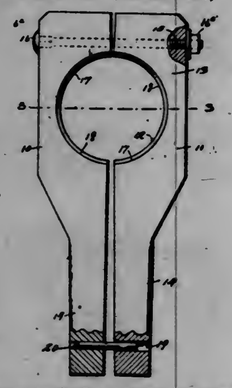
Means for playing a game of skill comprising in combination with a ball, a throwing and striking member consisting of a hollow prism of uniform cross-section throughout and open at one end and having a handle at the other end, and having flat exterior sides extending to the open end and forming the surfaces for catching and striking the ball.

1,919,707. PRODUCTION OF SULPHATE OF AMMONIA. WILLIAM GORDON ADAM, Loughton, and DONALD GEORGE MURDOCH, Cricklewood, London, England, assignors to The Gas Light & Coke Company, London, England, a British Company. Filed Mar. 13, 1930, Serial No. 435,592, and in Great Britain Mar. 20, 1929. 25 Claims. (Cl. 23—119.)

1. The method of producing sulphate of ammonia showing little or no tendency to cake on standing which consists in forming sulphate of ammonia in a body of solvent which contains a small proportion of a metallic salt conducive to the formation of robust elongated crystals and a small proportion of free acid and is maintained at constant temperature adjacent to the boiling point so as to cause separation of sulphate of ammonia in a form showing a high proportion of intercrystalline voids in bulk.

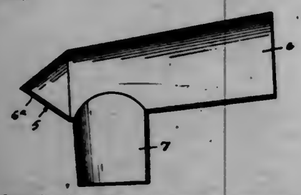
24. As a new article of manufacture, non-caking sulphate of ammonia having a permissible moisture content exceeding 0.35%.

1,919,708. JAR CAP WRENCH. WILLIAM JACKSON ADAMS, Knoxville, Tenn. Filed July 12, 1932. Serial No. 622,159. 4 Claims. (Cl. 81—31.)



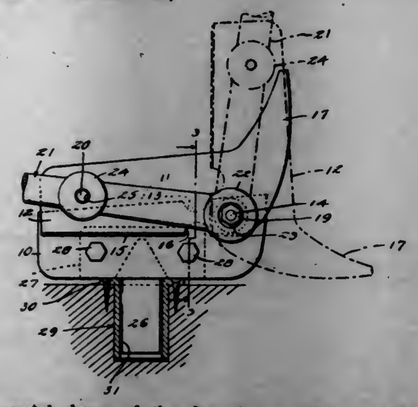
1. A jar cap wrench formed of two mating sections, each section having a head and a handle, the head of each section having a semi-circular recess formed therein, and mating with the semi-circular recess in the other head, the outer portions of the sections outward of the recesses having confronting faces, the outer portions of each section outward of the recesses being transversley bored from one side edge of the head to the other side edge thereof, and a bolt passing through said bore, the bolt holding the said confronting faces in close approximation to each other, and yieldingly holding the handles in divergent relation whereby as the handles are closed, the bolt will be bent.

1,919,709. CAP FOR THE BREATHER PIPES OF INTERNAL COMBUSTION ENGINES. JACKSON P. BROWN, Montoursville, Pa. Filed June 18, 1931, Serial No. 545,306. Renewed Mar. 25, 1933. 1 Claim. (Cl. 121—194.)



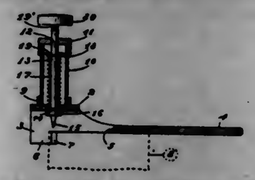
A cap for the breather pipe of an internal combustion engine, comprising a hollow body closed at its front and open at its rear end and provided in its lower side with an opening, the front end portion of the body being of conical formation and the body increasing in diameter from its front end portion to its rear end, and means for securing the body to the breather pipe in an upwardly and rearwardly inclined position thereon and with its bottom opening in registration with the breather pipe.

1,919,710. METAL SHEARS. HENRY D. BUYS, Emmett, Idaho. Filed Oct. 20, 1931. Serial No. 570,003. 1 Claim. (Cl. 164—44.)



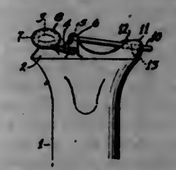
A metal shears of the character described comprising a pair of blade members, means for pivotally and yieldably securing said blade members together, a shank, means for securing said shank to one of said blades intermediate the ends thereof, an outstanding pin carried by the other of said blades, and a handle loosely and removably engaging said pivot means and said pin whereby to rock said other blade on said pivot means, said handle including an elongated bar having a pair of eyes spaced apart and engageable with the pivot means and the pin.

1,919,711. CAN PUNCH. JOHN F. CUTLER, San Francisco, Calif. Filed May 25, 1931. Serial No. 539,875. 2 Claims. (Cl. 164—119.)



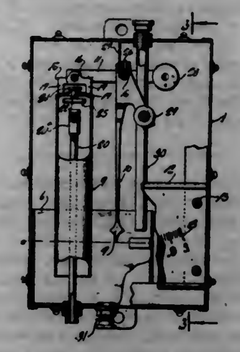
2. A can punch comprising a frame, a can puncturing member carried by the frame, said frame having a handle adapted to extend over and close to the top of the can, said handle having a thumb recess to permit the thumb of the operator to contact with the top of the can.

1,919,712. CLOSURE FOR COLLAPSIBLE TUBES. DONALD E. DUNLOP, San Francisco, Calif. Filed Apr. 9, 1932. Serial No. 604,330. 3 Claims. (Cl. 221—60.)



1. A collapsible tube having an elongated cover provided with an opening having an upstanding rim, a sleeve, and a notch, the sleeve being disposed between the opening and the notch, a wire having a portion pivotally mounted in the sleeve, one end of the wire carrying a cap designed to close the opening and receive the rim, and the other end constituting a handle and being received in the notch.

1,919,713. DRAFT GAUGE. LEWIS M. ELLISON, Evanston, Ill. Filed Sept. 21, 1932. Serial No. 634,125. 3 Claims. (Cl. 73—31.)



2. In a draft gauge of the character described having an indicating mechanism, an inverted gasometer bell for actuating the same, a liquid seal for the lower end of the bell, a draft tube opening into the bell above the seal, a vent opening in the head of the bell above the tube, and valve means carried by the bell and normally closing the vent opening therein when supported by the bell out of contact with the tube, said valve means acting to close the tube when seated thereon in the depression of the bell by an excess minus pressure therein and opening the vent in the bell to relieve said pressure to prevent drawing of the sealing liquid out of the bell through the tube, the head of the bell about the vent opening being projected into tubular form above the bell to provide a seat for the valve.

1,919,714. METHOD FOR PREPARING INSOLUBLE PIGMENTS. HERBERT A. ENDRES, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Jan. 8, 1929. Serial No. 331,159. 20 Claims. (Cl. 134—58.)

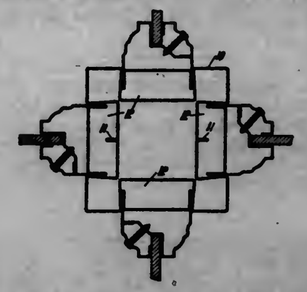
1. The method of preparing a finely divided pigment which comprises precipitating the pigment from aqueous solution, adding a water soluble soap to the precipitated pigment while it is still wet, and drying the pigment.

1,919,715.. METHOD FOR PREPARING DISPERSIONS OF INSOLUBLE PIGMENTS. HERBERT A. ENDRES, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Jan. 8, 1929. Serial No. 331,160. 12 Claims. (Cl. 134—58.)

1. The method of preparing an aqueous dispersion of an insoluble pigment, which comprises precipitating an insoluble salt from aqueous solution in a finely divided form, adding a small proportion of a water soluble soap to the freshly precipitated pigment to flocculate it, washing it, and redispersing it by the addition of a further proportion of a peptising agent.

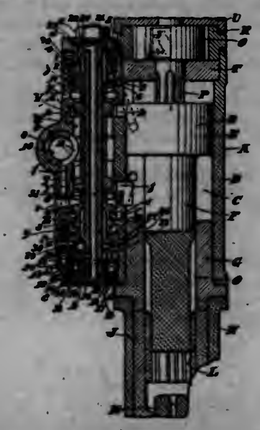
10. An aqueous dispersion of precipitated barium sulphate, characterized by a very fine, uniform particle size and substantially free from soluble salts, prepared by adding a small proportion of a water-soluble soap to the freshly precipitated barium sulphate to flocculate it, washing the flocculated barium sulphate, and redispersing it by the addition of a further proportion of a peptising agent.

1,919,716. METAL PARTITION. AXEL FREEMAN, Canton, Ohio. Filed July 29, 1929. Serial No. 381,944. 13 Claims. (Cl. 109—34.)



4. A sectional hollow sheet metal partition comprising posts, the outer walls of which are formed with vertical grooves, bars formed with corresponding grooves on their under sides adapted to be secured on top of the posts, bars with corresponding grooves on their upper sides adapted to be secured between the posts adjacent the bottoms thereof, said posts and bars cooperating to provide panel and transom openings, panels and transoms including frames adapted to be fitted to the panel and transom openings by insertion of one edge at an angle into a post groove and swinging to a position in line with and inserting in an opposite post groove and raising into cooperation with the lower groove of the upper bar, and means adapted to be mounted on the upper side of a lower bar for engaging under and supporting a panel or transom frame in such cooperation with the posts and the upper bars.

1,919,717. ROCK DRILL. GEORGE H. FUEHRER, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 20, 1932. Serial No. 594,196. 9 Claims. (Cl. 121—20.)

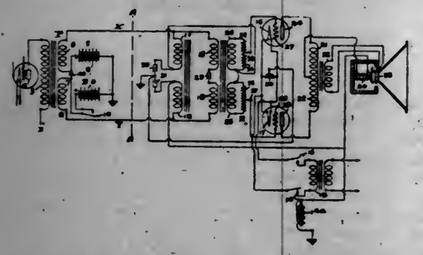


1. In a fluid actuated rock drill, the combination of a cylinder having a piston chamber and a piston in the piston chamber, a distributing valve for effecting the distribution of pressure fluid to the piston chamber and being normally actuated by pressure fluid valved by the piston, a second valve for controlling the flow of pressure fluid to the distributing valve for actuating said distributing valve, and means for selectively supplying pressure fluid to the valves.

1,919,718. METHOD AND MEANS FOR ADHERING RUBBER TO METAL. HAROLD GRAY, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Mar. 25, 1930. Serial No. 438,914. 9 Claims. (Cl. 18—59.)

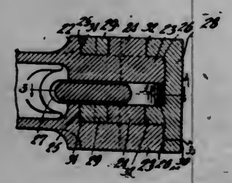
1. The method of adhering rubber to metal which comprises interposing between the rubber and the metal a thin layer of a composition comprising a salt of an organic acid with manganese, and uniting the parts by vulcanization.

1,919,719. TRANSMISSION SYSTEM FOR SOUND CARRYING CURRENTS. DONALD B. HARRIS and ORVILLE W. KNAUSS, St. Paul, Minn., assignors, by direct and mesne assignments, to Program Service Company, St. Paul, Minn., a Corporation of Delaware. Filed June 13, 1930. Serial No. 460,882. 7 Claims. (Cl. 179—2.)



1. In transmission systems for alternating current, a central station, a source of alternating current and a source of direct current at said central station, a distantly located station, a thermionic amplifier at said distant station having a grid element, a filament element and a plate element, a pair of conductors connected to transmit alternating current from said source to said amplifier, a circuit including said pair of conductors and ground for supplying electro-motive forces from said source of direct current to said amplifier whereby said grid and plate are maintained at operative potentials in respect to said filament and a combined transformer and impedance system having a unit at said central station connected to said pair of conductors and to ground and having a unit at said central station interposed between said conductors and said source of alternating current and connected to ground and having a unit at said distant station interposed between said conductors and said amplifier and connected to ground, said transformer and impedance system being adapted to supply a terminating impedance for said line conductors equal to the characteristic impedance of said conductors inducing a maximum voltage on the grid element of said amplifier and maintaining said conductors in a balanced condition with respect to ground.

1,919,720. PIVOTAL COUPLER. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1931. Serial No. 522,670. 13 Claims. (Cl. 213—69.)



1. In a device of the character described, the combination with a coupler having a shank member forked at the inner end, thereby providing a pair of spaced arms; of a butt block having a pair of forwardly projecting spaced arms overlapping said first-named arms, one of said pairs of arms having integral trunnions thereon and the other pair of arms having bearing openings receiving said trunnions; and a key engaged between one of the arms of the coupler and one of the arms of the butt block for holding the trunnions engaged within the bearing openings.

1,919,721. PREPARATION OF BROMATES. CARROLL A. HOCHWALT and JOHN B. WALIUSZIS, Dayton, Ohio, assignors to Morton Salt Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 19, 1932. Serial No. 600,065. 9 Claims. (Cl. 23—85.)

1. In the process of making a colorless alkali bromate from an alkali bromate containing a chromate, the step of removing the chromate by treating the alkali bromate solution with metallic zinc.

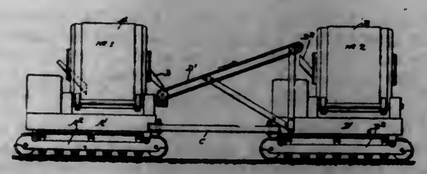
1,919,722. PROCESS FOR PRODUCING POLYMERIZED UNSATURATED HYDROCARBONS OF RELATIVELY LIGHT COLOR AND PRODUCT THEREOF. JULIUS HYMAN, Chicago, Ill., assignor to Velsicol Corporation, a Corporation of Illinois. Filed Nov. 13, 1930. Serial No. 495,422. 9 Claims. (Cl. 260—170.)

1. A process of producing polymerized unsaturated compounds transparent to light in a layer thickness of two inches and possessing drying characteristics equal or superior to vegetable drying oils, which comprises fractionating unrefined vapor phase cracked gasoline to separate a lighter condensable fraction having an end point not over approximately 235° F. from a heavier fraction, subjecting the lighter condensable fraction to polymerization, and separating the residue containing polymerized unsaturated hydrocarbons, to obtain a polymerized residue transparent to light in a layer thickness of two inches.

1,919,723. MANUFACTURE OF PRODUCTS CONTAINING OXYGEN-ABSORBING MINERAL HYDROCARBON POLYMERS. JULIUS HYMAN, Chicago, Ill., assignor to Velsicol Corporation, a Corporation of Illinois. Filed Apr. 27, 1933. Serial No. 668,291. 9 Claims. (Cl. 134—26.)

1. A coating or impregnant containing a varnish or paint adjuvant and a hydrocarbon polymer of mineral origin resulting from the polymerization of unrefined vapor phase cracked gasoline, said hydrocarbon having an iodine number above 150 and drying in less than one fourth the time required by raw linseed oil when said polymer is reduced to approximately a 50% non-volatile content.

1,919,724. APPARATUS FOR MIXING CONCRETE. WILSON A. JAICKS, Chicago, Ill. Filed June 3, 1931. Serial No. 541,924. 3 Claims. (Cl. 83—73.)



1. A concrete mixing apparatus comprising a plurality of mixing drums spaced one from another, a moving power driven conveyor extending into one of said drums, means interposed between the drum and the conveyor and located within the drum for shielding said conveyor to prevent the deposit of material thereon, said shield being removable to permit material to be deposited by the drum on said conveyor, which conveyor in turn supplies it to the second drum the axes of the two drums being in substantial alignment, the conveyor being adapted to move material positively independent of the effect of gravity from the point where it receives it by gravity from one drum to the point where it discharges it by gravity to the other.

1,919,725. COPPER BASE ALLOY. HERBERT C. JENNISON, Bridgeport, Conn., assignor to The American Brass Company, Waterbury, Conn., a Corporation of Connecticut. Original application filed Nov. 3, 1932, Serial No. 641,040. Divided and this application filed June 8, 1933. Serial No. 674,851. 4 Claims. (Cl. 75—1.)

1. A copper base alloy comprising approximately 1.0% to 15% zinc, 0.10% to 3.5% silicon, 0.10% to 3.5% manganese, 0.10% to 2.0% cadmium, 0.10% to 6% aluminum, and balance copper.

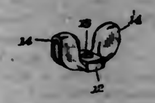
1,919,726. RUBBER COMPOSITION AND METHOD OF PRESERVING RUBBER. PAUL C. JONES, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Aug. 22, 1928. Serial No. 301,429. 14 Claims. (Cl. 18—50.)

1. The method of preserving rubber which comprises treating rubber with amino-azo-aromatic hydrocarbons containing at least one condensed ring nucleus.

1,919,727. PRODUCTION OF LACQUERS, ARTIFICIAL MASSES AND SOLUTIONS OF THEIR CONSTITUENTS. OTTO JORDAN, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Jan. 31, 1929, Serial No. 336,647, and in Germany Feb. 11, 1928. 14 Claims. (Cl. 134—79.)

2. A composition of matter comprising a cellulose derivative soluble in organic solvents and an alkyl dioxane selected from the group consisting of dimethyl- and diethyl-dioxane.

1,919,728. WING NUT. HARRY F. KELLOGG, Chicago, Ill., assignor to Central Screw Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 27, 1932. Serial No. 648,860. 4 Claims. (Cl. 85—32.)



1. A sheet metal wing nut comprising a body, wings folded substantially U-shaped and integral with the body and extending upwardly and outwardly from opposite sides of the body, said body comprising a solid block having a tapped opening thereon, and the metal of the block being thicker both in the directions longitudinally and transversely of the opening than the metal of the wings to insure firm anchorage with a screw threaded to said opening.

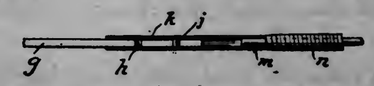
1,919,729. SEED AND PLANT DISINFECTANT. MORRIS S. KHARASCH, Chicago, Ill., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 10, 1929. Serial No. 398,817. 14 Claims. (Cl. 167—33.)

1. A composition of matter for the control of seed and plant diseases comprising a substantial quantity of a substantially inert solid material and a lesser quantity of the reaction products of an aromatic diazonium compound and a mercuric salt.

1,919,730. POROUS METAL AND METAL OXIDE. JOSEF KOENIG and FRITZ STOSWENER, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed June 10, 1930, Serial No. 460,288, and in Germany June 11, 1929. 8 Claims. (Cl. 23—233.)

1. A process of producing porous metals and metal oxides, which comprises making a mixture of at least one ingredient selected from the group consisting of metals, metal oxides and such metal compounds as are converted into metal oxides on heating, with a liquid and a foam producing agent into a foam and drying the latter.

1,919,731. SPECTACLES. ABRAHAM KATES, Philadelphia, Pa. Filed Feb. 6, 1931. Serial No. 513,909. 3 Claims. (Cl. 88—52.)

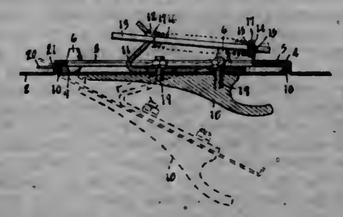


3. An improved ear-engaging lever for spectacles having two parts, one of which consists of an ear piece having an ear-engaging portion and the other of which consists of a temple rod adapted to be pivotally mounted on either of the spectacle glasses, one part having a tubular end portion of non-circular inner cross-section, and the other having a solid end of a non-circular crosssection similar to that of the tube and adapted to be slipped thereinto, said tube having a hole in the wall thereof, the solid end of the other part having a recess adapted, when slipped into the tube, to be aligned with said hole, and a pin adapted to engage the aligning recess and hole.

1,919,732. SEED DISINFECTANT COMPOSITION. MORRIS S. KHARASCH, Chicago, Ill., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 20, 1929. Serial No. 408,676. 20 Claims. (Cl. 167—33.)

2. A seed disinfectant comprising the reaction products of a mercuric salt and an aliphatic monoamine.

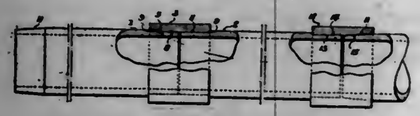
1,919,733. COWL VENTILATOR. S H HUNTER KUHNZEL, Kalamazoo, Mich., assignor to Checker Cab Manufacturing Corporation, Kalamazoo. Mich. Filed Apr. 18, 1931. Serial No. 531,060. 11 Claims. (Cl. 98—2.)



3. The combination with a vehicle cowl having a ventilating opening and a plurality of small gasket stud securing openings surrounding said ventilating opening, of a cover therefor comprising a sheet metal member having a peripheral flange, a rearwardly extending bracket mounted on the back of said cover having an opening therein, a rod mounted on the inside of said cowl and extending through said opening in said bracket, a spring mounted on said rod adapted to bias said bracket away from the rod mounting whereby to hold the cover in either its closed or open positions, means whereby the cover may be turned about one side as a pivot between certain limits,

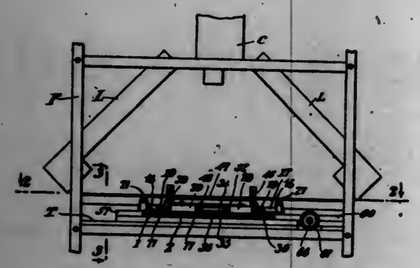
and a rubber gasket of substantially the shape of the edge of the cover constituting a seat for the peripheral flange of said cover and having directly opposed studs extending therefrom for engaging the inside of the cover on one side and the gasket stud securing openings in the cowl on the other side.

1,919,734. CONDUIT. WILLIAM D. KYLE and WILLIAM G. JOHNSON, Milwaukee, Wis., assignors to Line Material Company, South Milwaukee, Wis. Filed Jan. 24, 1931. Serial No. 510,972. 6 Claims. (Cl. 285—193.)



1. A permanently formed unitary conduit construction comprising two lengths of fibrous conduit having juxtaposed ends each provided with a polished peripheral portion, and a fibrous sleeve having a forced fit with each of the polished peripheral portions of the juxtaposed ends.

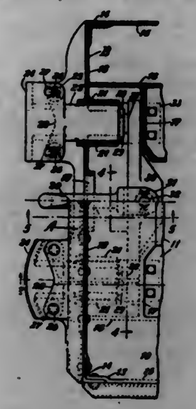
1,919,735. APPARATUS FOR MAKING ANIMATED PICTURES. GEORGE LANE, New Haven, Conn., assignor to Audio Cinema Incorporated, Long Island City, N. Y., a Corporation of New York. Filed July 25, 1930. Serial No. 470,658. 19 Claims. (Cl. 88—16.)



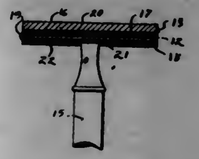
1. A device for supporting pictures for photographing them, comprising a flat support for picture sheets; a transparent presser plate to flatten the picture sheets upon said support; a frame supporting said plate; a hinge mounting for said frame adapting the frame and presser plate to swing to and from the picture sheet support; a pair of supports for said hinge mounting spaced along the hinge axis, said supports being independently removable and each capable of supporting the hinge mounting alone, and the removal of either support providing clearance beneath the hinge axis for picture sheets extending beyond the boundary of the presser plate.

1,919,736. DRAFT RIGGING. JOHN H. LINK, Merion, Pa., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 5, 1932. Serial No. 591,062. 4 Claims. (Cl. 213—9.)

1. In a draft rigging for cars, the combination with a pair of fixed sleevelike guides at the end of the car; of friction shock absorbing mechanisms at opposite sides of the end of the car, each shock absorbing mechanism including a fraction shell and cooperating friction elements, each of said shells being slidable in one of said sleevelike guides and having a buffing head at the outer end thereof projecting outwardly of the car; a transverse pressure transmitting beam for compressing said shock absorbing mechanisms in draft, said beam having its draft movement limited by engagement with the inner ends of said sleevelike guides; and coupler means connected to said beam intermediate the ends thereof.



1,919,737. SAFETY RAZOR. ETTA S. MARTIN, Chicago, Ill., assignor, by mesne assignments, to Bensel and Martin, East Orange, N. J., a Firm composed of Arlington Bensel and Charles W. Martin. Filed July 8, 1932. Serial No. 621,396. 5 Claims. (Cl. 30—12.)

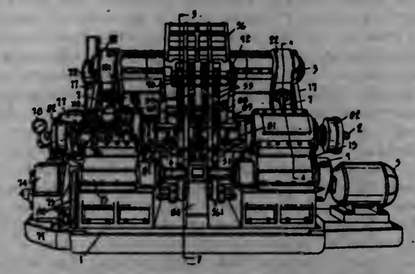


5. A safety razor comprising a guard, a clamping plate, means for adjusting the guard and clamping plate toward and away from each other, a pair of super-imposed blades arranged and clamped between said guard and plate, means for spacing the blades including a pair of substantially U-shaped resilient members arranged on opposite sides of the longitudinal center of the razor, each of said members including inner and outer legs, the inner leg being disposed between the blades, and means on the razor for engaging the other leg for holding the same against lateral shifting movement.

1,919,738. LATHE. HERMAN W. MELLING, Jackson, Mich. Filed Dec. 21, 1931. Serial No. 582,285. 40 Claims. (Cl. 82—9.)

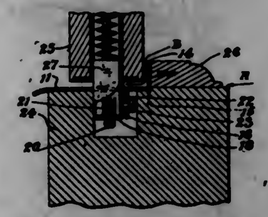
1. In a machine of the class described, the combination of a supporting frame having angularly related ways, upper and lower tool feed carriages slidably coacting with said ways, upper and lower master crankshafts carried by said carriages, upper and lower tool carriers journaled to the throws of said master crankshafts, an upper tool carrier supporting crankshaft for supporting the upper tool carriers independently of the work, rollers journaled to the upper tool carriers for engaging the work opposite the upper and lower tools and supporting the upper tool carriers when working, said upper tool carriers having angular slots engaged by studs on said lower tool carriers,

the connection constituting supports for the lower tool carriers, adjustable racks carried by said carriages and coacting with pinion shafts journaled to said frame for synchronizing the movements thereof, means limiting the rotational movement of said pinions, said upper feed carriage racks having toothless parts at their ends, whereby at the end of the retracting movement of the upper feed carriage the upper racks release their coacting pinions, permitting said lower feed carriage to retract under the influence of gravity until stopped by said limiting means engaging said pinion, work carriers for rotating the work in synchronism with the upper and lower master and upper tool carrier supporting crankshafts, means for driving said work carriers and said crankshafts in timed relation, means for operating said tool feed carriages comprising a feed carriage drive shaft journaled to said frame and having pinions engaging racks carried by said upper feed carrige, a piston rod having a rack engaging a pinion on the end of said drive shaft, an oil cylinder mounted on said frame for actuating said piston rod, means for supplying oil under pressure to said cylinder through a control valve, and means connected to said upper feed carriage for controlling said control valve.



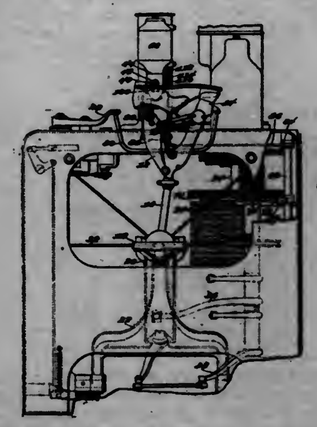
10. In a machine of the class described, the combination with tool feed carriages, of means for actuating said tool feed carriages in synchronism, comprising a shaft having pinion gears engaging racks carried by said carriages, and means limiting the rotation of said shaft, whereby upon the release of said pinion gear by the upper rack, said lower carriage is lowered by gravity until stopped by the engagement of said shaft with said limiting means, the upper rack having a half tooth at its lower end for engaging said pinion gear on its down stroke and for releasing said pinion gear on its up stroke, and means for actuating and retracting the upper tool feed carriage.

1,919,739. STRIKER PLATE. CHARLES MINZENMAYER, San Francisco, Calif. Filed Aug. 25, 1931. Serial No. 559,219. 1 Claim. (Cl. 292—340.)



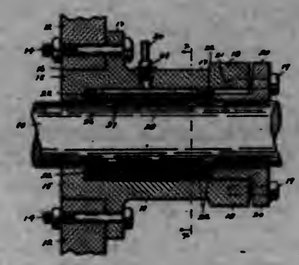
In combination with a striker plate having a latchbolt receiving socket formed therein, a latchbolt guard, said latchbolt guard consisting of a housing, a pair of perforated ears extending outwardly therefrom, a pair of pins carried by the striker plate and slidably receiving said perforated ears whereby the housing may reciprocate through the latchbolt-receiving socket, and resilient means carried by the pins and engaging said ears to urge the housing to an extended position through said socket.

1,919,740. EDGE SETTIING MACHINE. ALFRED R. MORRILL, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 15, 1930. Serial No. 444,401. 14 Claims. (Cl. 12—17.)



1. An edge-setting machine having, in combination, two edge-setting tools arranged to act successively on different parts of the sole edge of a shoe and a shoe supporting jack relatively movable to transfer the point of operation of the tool along the sole edge of a shoe supported on the jack, and means acting automatically during the continued operation of the machine to interchange one tool for the other at a predetermined point in the operation while maintaining at least one tool in contact with the sole edge.

1,919,741. LUBRICATED BEARING. SYLVANUS H. H. PARSONS, Coscob, Conn. Original application filed July 27, 1929, Serial No. 381,543. Divided and this application filed Oct. 21, 1930. Serial No. 490,159. 2 Claims. (Cl. 308—125.)

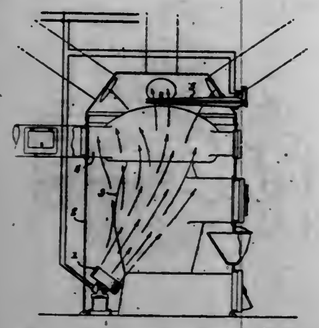


1. A device for supplying lubricant to a packed bearing and securing the packing therein, comprising in combination with a bearing formed with a packing chamber having a keyway and packing contained in said chamber, of a combined lubricant container, key, and distributor adapted to be mounted in the keyway of the packing chamber and extending partly through said packing and adapted to feed the lubricant directly to the shaft.

1,919,742. SOLUBLE BISMUTHYL MANNONATE AND THE PROCESS OF MAKING IT. RICHARD PASTERNACK and CLINTON P. AMMERMAN, Brooklyn, N. Y., assignors to Charles Pfizer & Company, Brooklyn, N. Y., a Corporation of New Jersey. Filed Apr. 22, 1931. Serial No. 532,114. 12 Claims. (Cl. 260—11.)

1. Highly soluble alkali-metal bismuthyl mannonate.

1,919,743. TEMPERATURE CONTROLLED FURNACE FAN. SAMUEL E. PETERS, Racine, Wis., assignor to Roan Mfg. Co., Racine, Wis., a Corporation of Wisconsin. Filed Aug. 29, 1931. Serial No. 560,187. 6 Claims. (Cl. 126—110.)



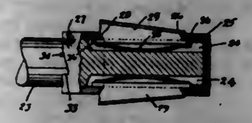
1. In a fluid heating device, the combination of a source of heat, a wall enclosing said source of heat through which heat may be conducted, an enclosure through which a fluid to be heated is conveyed in contact with said wall, a fluid-moving means within said enclosure directed to cause said fluid to impinge upon said wall at increased velocity, means for supplying said fluid-moving means with a suitable source of motivating energy, and a control means in said supply means and in close proximity with said wall to control the supply of said motivating energy in quantity increasing with the temperature of said wall.

1,919,744. COVER FOR AUTOMOBILE RUMBLE SEATS. JAMES J. QUINN, Philadelphia, Pa. Filed Oct. 27, 1931. Serial No. 571,895. 1 Claim. (Cl. 296—99.)



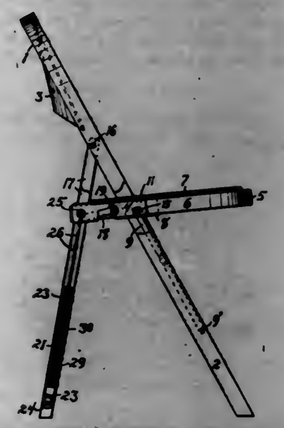
The combination with an automobile body having an occupant receiving enclosure substantially midway its ends and provided at the rear of the enclosure with a rumble seat compartment having a rumble seat back, of a cover comprising a cover body engaged with and straddled fittingly with the top of said enclosure and provided with a U shaped element incased in the cover to retain the cover in the straddled position of the top of the enclosure, the forward end of the cover having a strap connected thereto and fitting under the visor of the forward part of the enclosure to draw the cover tight, said cover extending rearwardly from the top of the enclosure and downwardly and substantially overlying the rear face of the rumble seat back, said downwardly extending rear portion of the cover having a single piece U shaped reinforcing element straddling the rumble seat back, said edge portion of the rear downwardly extending part of the cover having a pair of straps to engage the handle of the rumble seat back for drawing the cover taut, and a support engaged with the crotch where the rear part of the enclosure rises from the body of the automobile just forward of the rumble seat compartment, said support comprising a rectangular frame with angular side arms, portions of the side arms extending forwardly and slightly rearwardly and certain other portions of the side arms extending substantially directly rearwardly and merging into a transverse piece to engage under and with the cover when the latter is stretched to retain the support rigidly in position, said support comprising U shaped sections including telescopically connected parts which constitute the side arms.

1,919,745. FLEXIBLE REAMER FOR CABLE TERMINALS AND THE LIKE. ALBERT RAPHAEL, Brooklyn, N. Y. Filed Nov. 12, 1931. Serial No. 574,489. 4 Claims. (Cl. 77—75.)



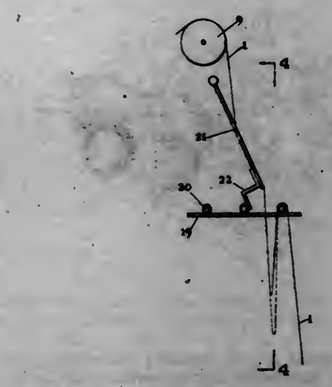
1. A flexible reamer for cable terminals and the like, comprising a barrel formed with a plurality of longitudinal slots around its periphery, a cap threadedly engaged upon said barrel and having its inner side of substantially frusto-conical form, a ring rotative on said barrel and having the side nearest the said cap of substantially frusto-conical form, cutting elements within said slots and having both ends formed with acute notches adapted to be engaged in extended positions by said frusto-conical sides and having reduced ends extending respectively beneath the sides of said cap and ring, resilient means urging said cutting elements outwards, and means for limiting longitudinal sliding of said ring within predetermined limits wherein the frusto-conical portions of the cap and ring engage said acute notches for holding the cutting elements extended or wherein the cap and ring limit extension of said reduced ends only so that the cutting elements may be depressed.

1,919,746. FOLDING CHAIR. WILLIAM C. RASTETTER, Fort Wayne, Ind. Filed Mar. 20, 1931. Serial No. 524,043. 3 Claims. (Cl. 155—142.)



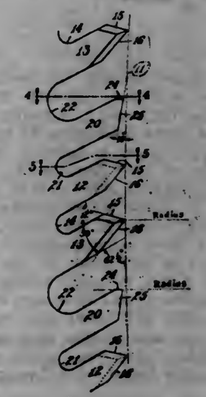
3. In a folding chair, a main frame, a seat pivoted in the frame, a rear leg structure pivotally connected in the frame at points above the seat pivots, a guide member disposed upon each of the legs of said rear leg structure having a longitudinal slot, and stop-rods pivoted on the rear end of said seat, the lower end of each of said stop-rods being confined in the corresponding guide and having limited sliding movement therein.

1,919,747. APPARATUS FOR FESTOONING CLOTH. EDGAR C. RICHARDSON, Fairfield, Conn., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 14, 1931. Serial No. 568,692. 5 Claims. (Cl. 34—12.)



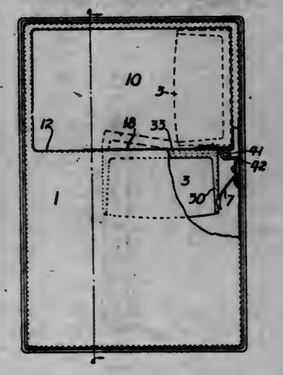
3. In an apparatus for festooning cloth, the combination of a continuous conveyor belt adapted to travel substantially horizontally through a part of its course, said conveyor belt comprising a pair of spaced flexible elements and spaced cross bars connecting said flexible elements, a strip of card cloth being disposed on the forward side of each of said cross bars, means for feeding a web of cloth between adjacent cross bars and over the cross bars to form festoons of the cloth, and means for preventing contact of the cloth with the rearward one of adjacent cross bars while the festoon between said cross bars is being formed, said means being operated by engagement and disengagement of succeeding cross bars in their travel.

1,919,748. SAW. TOM R. ROBERTS, Indianapolis, Ind., assignor to E. C. Atkins and Company, Indianapolis, Ind., a Corporation of Indiana. Filed Mar. 25, 1933. Serial No. 662,715. 4 Claims. (Cl. 143—133.)



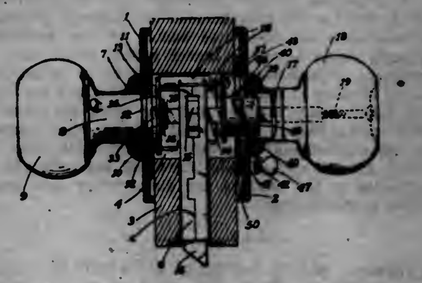
1. A saw of the pull-stroke type having a toothed edge comprising successive tooth groups, each of said groups comprising two tandem oppositely-filed chisel teeth and a trailing raker tooth separated by gullets inclined toward the back and tip of the saw, each of the chisel teeth having a forward and a rear cutting edge inclined in opposite directions from a line normal to the tooth-tip line and through said tip, and the angle between said normal line and the forward cutting edge being substantially less than the angle between said normal line and the rear cutting edge, and each of the raker teeth having a tip lying short of the line of chisel teeth tips and formed by two planes each normal to the plate plane, the forward one of said planes being substantially normal to the adjacent tooth-tip line and leading to a gullet inclined toward the blade tip and back, and the rearward one of said planes inclined rearwardly and toward the back of the saw, and having a length substantially greater than the length of its companion tip-forming plane.

1,919,749. PIVOTALLY SUPPORTED WIND WING. ALBERT P. ROBINSON, Seattle, Wash. Filed Apr. 21, 1930. Serial No. 445,929. 30 Claims. (Cl. 296—44.)



1. A wind deflector for attachment to an automobile door or the like having a window opening, comprising a pivot base adapted for securement to the door in adjacent relation to a lower front corner of the window opening, and having a pivot axis which extends generally transversely of the automobile, a deflector wing, and means pivotally supporting said deflector wing upon said pivot base to swing from inoperative position, wherein the deflector wing is below the level of the window sill, upwardly into operative position, wherein its theretofore horizontal upper edge lies adjacent an edge of the window opening, and the deflector wing is inclined angularly outwardly therefrom.

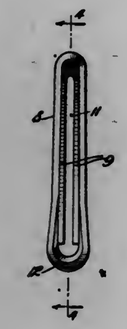
1,919,750. DOORLOCK. JOHN A. RYMER, San Leandro, Calif., assignor to Ry-Lock Company, Ltd., San Leandro, Calif., a Corporation of Nevada. Filed Sept. 3, 1932. Serial No. 631,606. 10 Claims. (Cl. 70—91.)



10. In a lock of the latch bolt type, a bolt actuating spindle, a knob secured to one end of the spindle, another knob about the other end of the spindle, a sleeve non-turnably and slidably mounted in connection with said

other knob and into which the adjacent end of the spindle slidably projects, said sleeve being arranged for non-turning engagement with the spindle when shifted a predetermined distance, an actuating sleeve mounted in connection with the one knob separate from the spindle and through which the latter freely projects, and connection means between the sleeves exteriorly of the spindle.

1,919,751. WEDGE FOR FORM TIES. TAMIS C. SCHENK, Brooklyn, N. Y., assignor to Richmond Screw Anchor Co., Inc., a Corporation of New York. Original application filed May 1, 1931, Serial No. 534,153, now Patent No. 1,857,610, dated May 10, 1932. Divided and this application filed Apr. 9, 1932. Serial No. 605,321. 2 Claims. (Cl. 25—131.)



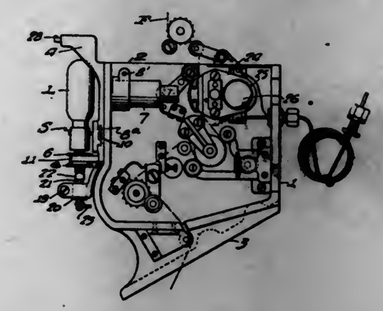
1. A bottom-heavy wedge for form ties having spaced walls defining a slot between them, said walls having outer parallel surfaces which diverge from the inner surfaces of said walls to the top of the wedge, a loop at the bottom of the walls connecting said walls and enlarging the lower end of the slot so that the enlarged end of a form tie may be passed through the loop and the weight of said loop will tend to hold the wedge in a vertically disposed position.

1,919,752. SEPARATION OF MIXTURES BY DISTILLATION. OTTO SCHMIDT and OTTO GROSSKINSKY, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Oct. 11, 1928, Serial No. 311,956, and in Germany Mar. 19, 1927. 8 Claims. (Cl. 202—56.)

1. A process for the separation into its constituents of a mixture of hydrocarbons of different degrees of saturation which comprises adding to said mixture an organic liquid having a higher boiling point than said mixture, characterized by the property of separating a liquid mixture of butadiene and butylene into two layers, the upper being butylene and the lower butadiene and said organic liquid, and selected from the class consisting of ethylene chlorhydrin, esters of aliphatic acids, furfurol, nitriles and organic bases and removing the constituents of the mixture not dissolved by said organic liquid by distillation.

1,919,753. SOUND ON FILM APPARATUS. CHARLES HUGO SEAHOLM, New York, N. Y., assignor to General Talking Pictures Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 2, 1932. Serial No. 596,333. 5 Claims. (Cl. 179—100.3.)

1. In apparatus of the character disclosed, the combination of an optical system, an excitor lamp at one end of the same and a photoelectric cell at the opposite end, a socket for said excitor lamp and a trackway for mounting said socket in transversely movable relation at



the end of the optical system, enabling the replacement of one lamp for another by the transverse shifting of a lamp carrying socket in the trackway aforesaid.

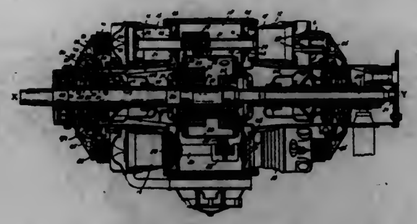
1,919,754. EMERGENCY BRAKE CONTROL MECHANISM. EJNAR SEJERSEN, Oak Park, Ill. Filed Apr. 12, 1929. Serial No. 354,487. 4 Claims. (Cl. 192—13.)



1. In an automotive vehicle, the combination of an emergency brake mechanism having spring actuated means for releasing the same, a manually operable lever for actuating said brake mechanism to apply the brake, a rotatable friction plate, a housing therefor, means to prevent rotation of said plate in one direction comprising a roller positioned between said plate and said housing, a pair of clutch plates engageable with said friction plate and connected to said mechanism and lever respectively, and a screw connection between said plates, whereby movement of said lever in one direction will cause said clutch plates to clamp against said friction plate and move therewith and movement of said lever in the opposite direction will cause said clutch plates to be moved away from said friction plate and permit free movement of the one of said clutch plates connected with said brake mechanism under the influence of its spring actuated means.

1,919,755. INTERNAL COMBUSTION ENGINE. THOMAS L. SHERMAN, Canton, Mass., assignor to Michell-Crankless Engines Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 4, 1930. Serial No. 499,903. 6 Claims. (Cl. 123—43.)

2. An internal combustion engine comprising a plurality of cylinders having their axes parallel and equidistant from a shaft disposed centrally thereof, the cylinders being open at one end and closed by cylinder heads at the other ends, and an annular chamber communicating with the open ends of said cylinders and substantially



sealed from the engine casing, the open ends of the cylinders extending into said chamber and being recessed to facilitate circulation of air in the chamber.

1,919,756. PROCESS OF TANNING. IAN C. SOMERVILLE, Fox Chase, and HARRY R. RATERINK, Philadelphia, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa. Filed July 25, 1932. Serial No. 624,648. 20 Claims. (Cl. 149—5.)

1. In a process of tanning the step which comprises treating the hides and skins with a tanning material comprising the reaction product of an aromatic sulphonic acid with an aldehyde and thiourea.

1,919,757. PROCESS OF TREATING LAMINATED GLASS TO PREPARE IT FOR SEALING. GEORGE B. WATKINS, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 14, 1929. Serial No. 399,526. 4 Claims. (Cl. 49—81.)

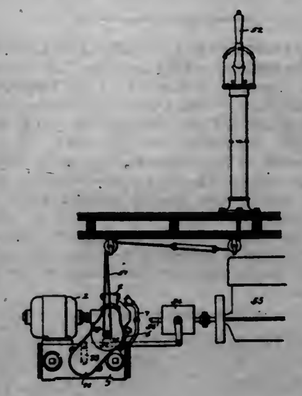


1. The process of treating laminated glass, comprising two sheets of glass and a sheet of non-brittle material, to prepare it for sealing, consisting in treating the marginal portions of the non-brittle sheet with a solvent, then treating said portions of the non-brittle sheet with a liquid mutually soluble with the solvent used, and then removing those portions of the non-brittle material so treated.

1,919,758. REMOTE CONTROL APPARATUS. ANTHONY E. WEINGARTNER, Bethlehem, and CHARLES V. KOONS, Philadelphia, Pa., assignors to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 20, 1928. Serial No. 307,264. 1 Claim. (Cl. 60—52.)

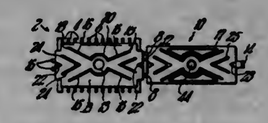
In a remote control device, the combination with a base housing, of an electric motor mounted on said housing, a variable stroke reversible delivery fluid pump also mounted on said housing and connected to said motor, a shaft journaled in said base housing, a working cylinder formed in said housing, a double-acting plunger in said cylinder operatively connected with said shaft, means for operatively connecting the cylinder with the

said pump, a make-up tank formed in said base housing and having a port communicating with one end of the cylinder, a check valve controlling said port, manual con-



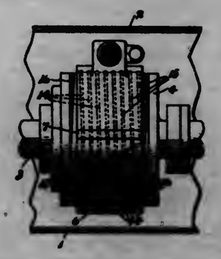
trol means for said pump, and follow-up control means also connected with said pump and responsive to movement of said shaft.

1,919,759. SAFETY RAZOR. RICHARD G. WINKLER, Springfield, Mass. Filed Mar. 3, 1932. Serial No. 596,509. 5 Claims. (Cl. 30—12.)



1. A safety razor comprising in combination, a cooperating plate member and a cap member provided with complemental curved surfaces for clamping a blade therebetween, one of said members having keys for a blade extending in a diverging relation towards opposite ends thereof and disposed at either side of its longitudinal center line and terminating adjacent said ends and other keys extending inwardly from said opposite ends of the member to points between and closely adjacent the ends of said first-named keys.

1,919,760. MARINE REVERSE GEAR. GARFIELD A. WOOD, Detroit, Mich. Filed Sept. 17, 1928. Serial No. 306,523. 8 Claims. (Cl. 188—77.)



1. A construction of the class described comprising, a rotatably mounted shaft, a drum on said shaft having a

spiral groove around the same, and a gripping band located around the drum having spiral grooves cut therein at its inner side, the grooves on the band crossing the grooves in the drum for the purposes described.

1,919,761. PRODUCTION OF ALKALINE EARTH METAL CYANAMIDES. HANS ACKER, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed July 1, 1931, Serial No. 548,266, and in Germany July 7, 1930. 14 Claims. (Cl. 23—78.)

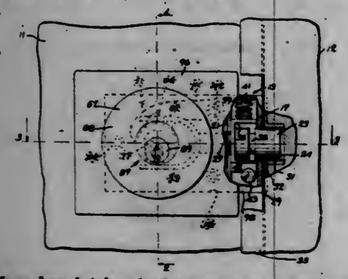
1. The process of producing alkaline earth metal cyanamides which comprises passing ammonia and an aliphatic, unsaturated hydrocarbon in the gaseous state, each of said gases being present in an amount of at least 5 per cent of the reaction gas, at a temperature between 400° and 1000° C. over a substance selected from the group consisting of the oxides and carbonates of the alkaline earth metals.

1,919,762. ORTHODONTIC APPLIANCE. JULIUS ADERER, New York, N. Y. Filed Sept. 2, 1931. Serial No. 560,708. 3 Claims. (Cl. 32—19.)



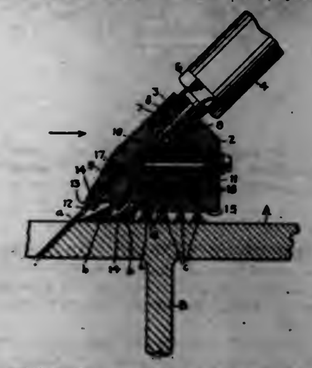
1. In a separable two part socket and plug orthodontic appliance, one part of which is held in fixed position upon a tooth, while the other part is fixed by an alignment wire, that improvement which comprises the combination of a socket having opposite edge grooves at the upper portions thereof adapted to receive an alignment wire, said socket being open at the top and at the bottom, each of said openings in cross-section being of circular configuration and concentric but of different radial dimensions, a smooth tapered inner wall face connecting said circular openings and configured accurately to the outer peripheral surface of a frustrum of a cone, and a rigid smooth surfaced tapered plug for said socket, an alignment wire attached to the upper part of said plug in position to be engaged by the edge grooves of the socket when the plug is fully seated in the socket, said plug being circular in every cross-section where contact is made with the socket, the exterior surface of said plug being accurately configured to the outer peripheral surface of a frustrum of a cone of the same degree of slope as that of the frustrum represented by the inner wall face of the socket, horizontal sections on all lines along the length of the plug and socket where the two are in contact corresponding to two circles having the same radius.

1,919,763. LOCK AND LATCH. SHERMAN T. ALLEN, Beverly Hills, Calif. Filed Jan. 30, 1931. Serial No. 512,896. 6 Claims. (Cl. 70—91.)



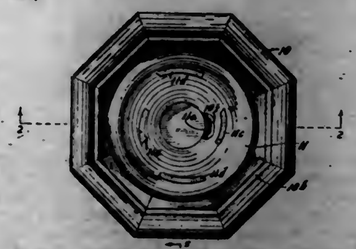
1. In a door latch, a basket structure, a bolt reciprocable longitudinally thereof, a shaft extending transversely of said basket structure and journaled therein, means interconnecting said bolt and shaft for retracting said bolt when said shaft is turned, a knob slidable axially onto each end of said shaft, means on said shaft engageable by each of said knobs for turning the shaft thereby, and gravity operated means for holding each of said knobs against axial displacement from said shaft.

1,919,764. CUTTING TORCH. JAMES L. ANDERSON, Tenafly, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed Dec. 13, 1930, Serial No. 502,026. Divided and this application filed Feb. 11, 1932. Serial No. 592,347. 18 Claims. (Cl. 158—27.4.)



1. A cutting tip comprising a block having an oxygen passage, preheating passages in front of said oxygen passage and spaced transversely with respect to the tip face, and advance preheating means disposed in central alinement with the oxygen passage.

1,919,765. FRUIT HOLDER. ALVIN P. BARNES, Minneapolis, Minn., assignor, by direct and mesne assignments, of one-third to H. W. Gehr, Anoka, Minn., and one-third to Isabell Hodge Barnes and one-third to Earl C. Friel, Minneapolis, Minn. Filed July 6, 1931, Serial No. 548,897. Renewed July 30, 1932. 8 Claims. (Cl. 65—25.)



1. A fruit holder comprising a receptacle adapted to receive a fruit of general spherical or semi-spherical form, and having circumferentially spaced projections on its inner surface extending helically thereabout for engaging and holding a fruit pressed and rotated in engagement therewith.

1,919,766. METHOD OF PROTECTING RUBBER SURFACES. CARL L. BEAL, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Nov. 16, 1928. Serial No. 320,009. 8 Claims. (Cl. 18—58.)

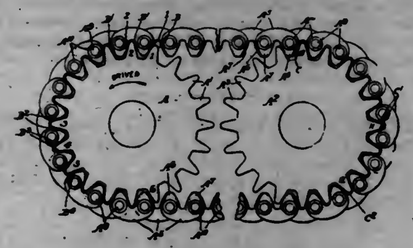
1. The method which comprises treating rubber articles with a solution containing a hydrogen halide and a halide of an amphoteric metal, whereby the surface of the article is rendered resistant to the action of oxidizing substances.

1,919,767. BRACKET. ERNEST A. BOHLMAN, Chicago, Ill., assignor to Jefferson Electric Company, Chicago, Ill., a Corporation of Illinois. Filed July 25, 1930. Serial No. 470,569. 9 Claims. (Cl. 248—20.)



1. A bracket for securing a transformer coil or the like to a surface comprising, in combination, a clamp for gripping the coil comprising a band of metal and means for securing the ends of said band together, and a pair of arms constructed to be secured to said surface and having portions adapted to be selectively secured to intermediate portions of said band or to the ends thereof.

1,919,768. SILENT CHAIN. WILLIAM F. BRANDT, Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 30, 1929. Serial No. 351,199. 16 Claims. (Cl. 74—34.)



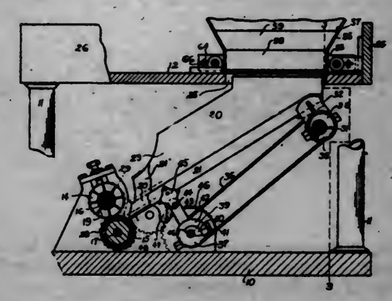
1. In combination, a sprocket, and a chain comprising a plurality of articulated toothed links adapted for operative engagement with the sprocket teeth, the opposed working surfaces of the teeth of chain and sprocket being conjugate one to the other.

1,919,769. CORE PLUG. ROBERT J. BROWN and ROBERT W. VAN PERNAN, Kalamazoo, Mich. Filed Aug. 7, 1931. Serial No. 555,789. 4 Claims. (Cl. 242—68.)



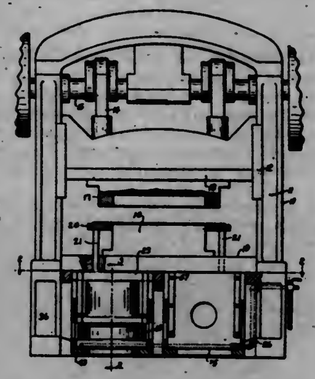
4. A core plug for paper rolls comprising a cylindrical core-engaging rim terminating in an outwardly projecting flange at its outer end and having a plurality of longitudinal core engaging tapered ribs struck outwardly therefrom, and a web joined to the inner end of the rim and having a central spindle opening.

1,919,770. STRING BEAN CUTTER. LEO R. H. BURTON and VERNON E. COOK, Rome, N. Y. Filed Mar. 17, 1931. Serial No. 523,314. 6 Claims. (Cl. 146—81.)



1. A string bean cutter comprising a knife roller having outwardly extending knives arranged lengthwise of said roller, an anvil roller arranged opposite and below said knife roller, a chute having a plurality of parallel passageways slanting downwardly towards the meeting line of said rollers and adapted to feed the string beans endwise towards the meeting line of said rolls and means for movably mounting said chute so that its end adjacent said rollers will have a movement towards and from the meeting line of said rollers and following the curve of said anvil roller.

1,919,771. PRESS. ARTHUR A. BYERLEIN, Detroit, Mich., assignor to General Machinery Corporation, Hamilton, Ohio, a Corporation of Delaware. Filed May 29, 1931. Serial No. 540,987. 10 Claims. (Cl. 267—1.)

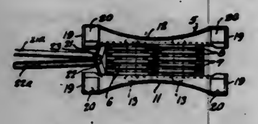


1. In a drawing press, a frame including a bed portion having an opening, a fluid pressure cushion in said opening, and a cushion support supporting the bottom of the cushion, said cushion support extending upwardly around the cushion and having a top portion connected to an upper part of said bed portion.

1,919,772. KNIFE SHARPENER. EDWARD W. CARPENTER, Fairfield, Conn., assignor to The E. W. Carpenter Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Nov. 8, 1930. Serial No. 494,306. 4 Claims. (Cl. 76—87.)

1. In a sharpener of the class described including overlapping sharpening discs, a housing, said housing being substantially inverted U-shape in transverse section, said sharpening discs supported within the housing, the side walls of the housing each outwardly flared at its lower portion, the said flared portions having the central por-

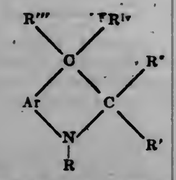
tion of their lower edges cut away, and said flared portions at their lower edges at each end of their cutaway portion carrying extension turned under the housing and



having their lower surfaces disposed below the lower edges of the housing whereby to provide relatively broad supporting feet for the housing.

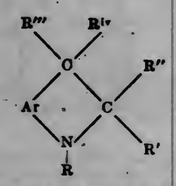
1,919,773. INDOPHENOLS AND SULPHUR DYESTUFFS THEREFROM. ERNEST CHAPMAN, Manchester, England, assignor to Imperial Chemical Industries Limited, a Corporation of Great Britain. Filed Oct. 10, 1931, Serial No. 568,204, and in Great Britain Oct. 25, 1930. 18 Claims. (Cl. 260—19.)

1. In the process of preparing indophenols, the step which comprises oxidising a tetralkylindoline of the general formula:



in which Ar represents an ortho-arylene radical devoid of substituent in the position para to the —NR— group, R represents hydrogen or a hydrocarbon radical, and R′, R″, R‴ and R^{iv} represent aliphatic hydrocarbon radicals which may be the same as or different from one another, together with a compound of the group consisting of p-amino-phenol, 1:4 nitrosophenol, and quinone chloroimides.

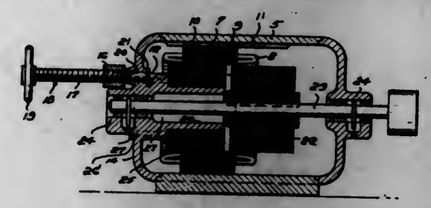
3. In the process of preparing indophenols, the steps which comprise oxidising a tetralkylindoline of the general formula:



in which Ar represents an ortho-arylene radical devoid of substituent in the position para to the —NR— group, R represents hydrogen or a hydrocarbon radical, and R′, R″, R‴, and R^{iv} represent aliphatic hydrocarbon radicals which may be the same as or different from one another, together with a compound of the group consisting of p-amino-phenol, 1:4 nitrosophenol, and quinone chloroimides, and thereafter sulphurizing the indophenol formed in the oxidation step.

1,919,774. VARIABLE SPEED ALTERNATING CURRENT MOTOR. ALBERT B. CHEW, Philadelphia, Pa. Filed Oct. 5, 1931. Serial No. 567,090. 5 Claims. (Cl. 172—274.)

1. In an alternating current induction motor, a stator, a squirrel cage induction rotor, a magnetic core free from windings arranged in end-to-end relation with the rotor, means to hold the magnetic core stationary, and



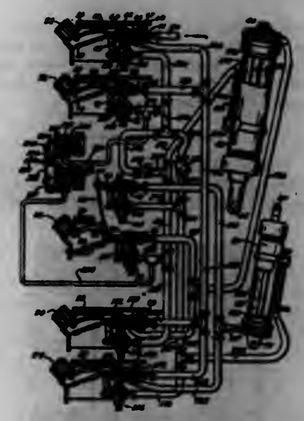
means to move the stator longitudinally of the rotor and core.

1,919,775. MANUFACTURE OF AQUEOUS DISPERSIONS. RICHARD A. CRAWFORD and FRANK K. SCHOENFELD, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 22, 1929. Serial No. 357,330. 17 Claims. (Cl. 134—54.)

2. The method of dispersing slightly water soluble pigments in water which comprises coating the pigment particles with a solid waxy substance which is impermeable to water, and dispersing the coated particles in water.

8. The method of admixing coagulating pigments with alkaline rubber emulsions which comprises coating the pigment particles with a solid waxy substance which is impermeable to water, and adding the coated particles to rubber which is in the process of dispersion.

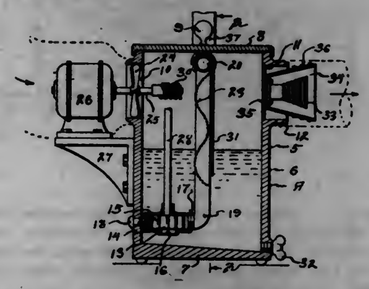
1,919,776. TWO-OPERATOR TWO-HAND CONTROL. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Feb. 18, 1931. Serial No. 516,785. 4 Claims. (Cl. 121—38.)



1. In a pressing machine in combination cooperative pressing elements, one of which is movable with respect to the other; actuating means for the movable pressing element including motor means for closing the press under light and under heavy pressure; a power feed line; a first pair of operator-operated control devices connected to the motor means to control the supply of power thereto to close the press under light pressure; a second pair of

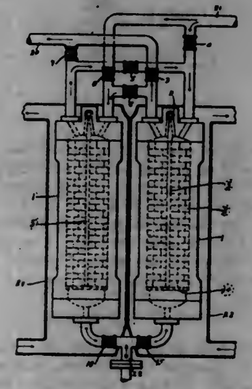
operator-operated control devices connected to the motor means to control the supply of power thereto to close the press under heavy pressure; and a third pair of operator-operated control devices connected to the feed line and to the first and second pairs of control devices to control the supply of power thereto, whereby operation of the first and the third pairs of the control devices is required to close the press under light pressure and operation of the second and the third pairs of control devices is required to close the press under heavy pressure.

1,919,777. HUMIDIFIER. ARTHUR DIEHL, Milwaukee, Wis. Filed July 29, 1932. Serial No. 625,697. 1 Claim. (Cl. 261—29.)



A device for humidifying and purifying the air comprising a casing for receiving a liquid, the casing having air intake and air outlet openings arranged at opposed points, a sleeve surrounding the air outlet opening, a pump in the casing, a liquid conducting pipe communicating with the outlet of the pump terminating in a horisontally disposed leg having a plurality of perforations throughout the length thereof, a coarse screen depending from the leg for receiving the liquid from the perforations, a fan causing the intake of the air from the intake opening and the outlet of air out of the outlet opening and through the screen, a shell disposed within the sleeve having a rear wall and a side wall provided with struck-out louvers for deflecting air into the shell, and an electric heating element disposed within the shell.

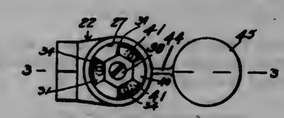
1,919,778. GAS PURIFICATION. HERBERT H. DOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed May 23, 1928. Serial No. 279,951. 5 Claims. (Cl. 23—7.)



1. In a method of purifying a gas by contact with alkali, the steps which consist in substantially flooding the surface within a suitable vessel with alkali metal hydroxide by substantially filling said vessel with molten alkali and then withdrawing excess of same while admitting the gas being purified, whereby said surface is coated with alkali and the excess thereof removed without introducing gas other than that being purified.

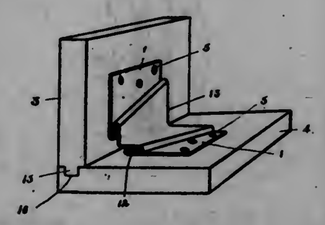
5. In a method of purifying a hydrogen-nitrogen gas mixture by contact with alkali, the steps which consist in coating substantially all of the surfaces within a suitable vessel with a mixture of caustic soda and caustic potash by substantially filling said vessel with said alkali mixture in molten condition and then withdrawing excess of same while admitting the said gas mixture, whereby said surfaces are coated with alkali and the excess thereof removed without introducing other gas.

1,919,779. TOILET FLUSHING APPARATUS. STEPHEN P. ENRIGHT, Philadelphia, Pa. Filed Apr. 18, 1930. Serial No. 445,293. 3 Claims. (Cl. 137—104.)



1. In a toilet flushing apparatus, a regulator consisting of a housing, one wall of which is provided with a plurality of outlet apertures, a disc co-operating with the apertured wall and adapted to rotate, means mounted in the front face of said housing to hold the disc in place, said disc having apertures running obliquely through the same from face to face in a counter-clockwise direction when considered as looking directly into the front face of the regulator, and said disc further having holes running obliquely completely through the disc from face to face clockwise when considered as looking into the front face of the regulator, and a float connected with said disc.

1,919,780. COUPLING. ROSWELL LEE FAIRBANK, Utica, N. Y., assignor of one-half to Philip Rahn, Whitesboro, N. Y. Filed May 1, 1931. Serial No. 534,377. 4 Claims. (Cl. 20—92.)

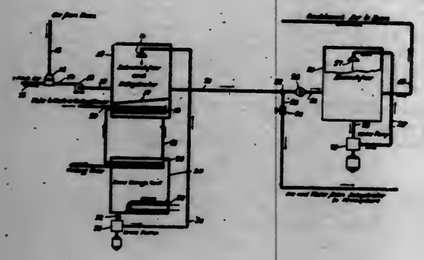


1. In a coupling for holding parts together, members having portions thereof bent parallel to form grooves and adapted to be attached to the parts to be united, another member having portions bent parallel to form grooves, whereby said second named member will co-operate with said first named member to hold said parts in a detachable manner and said second named member being formed with an angle, whereby to aid in joining corner pieces together.

1,919,781. METHOD AND APPARATUS FOR CONDITIONING AIR. HENRY O. FORREST, West Englewood, and LEE VAN HORN, Elizabeth, N. J. Filed Sept. 18, 1931. Serial No. 563,596. 4 Claims. (Cl. 257—9.)

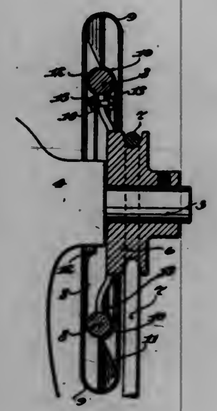
1. In an air conditioning apparatus designed for intermittent use and having a dehumidifying chamber, a

humidifying chamber and a brine storage tank, a heater disposed within said brine storage tank adapted to heat said brine for reactivation purposes and means to circu-



late said heated brine through said dehumidifying chamber and contact it with a blast of air whereby excess water is removed from said brine.

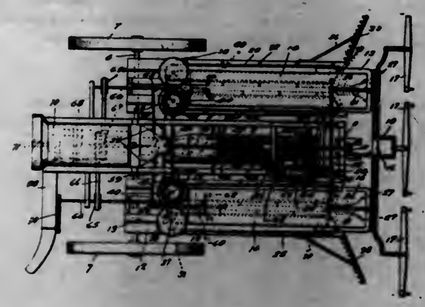
1,919,782. FAN ATTACHMENT FOR SEWING MACHINES. DAVID FISCHBEIN, Minneapolis, Minn. Filed Dec. 14, 1931. Serial No. 580,868. 6 Claims. (Cl. 230—247.)



1. A fan of the class described, comprising an outer rim, a main clamping rim, a secondary clamping rim, fan blades connecting the outer rim and the main clamping rim, said two clamping rims being axially aligned, the opposing sides of the two clamping rims being channeled to receive the rim of a rotatable wheel therebetween for self-centering engagement therewith, and fastening means connecting the two clamping rims transversely of the wheel and operable to draw the same onto the rim of the wheel.

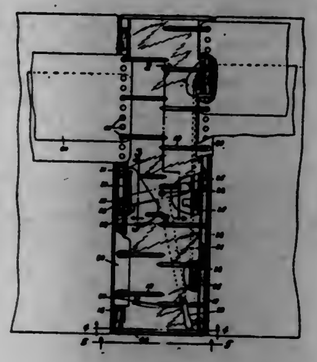
1,919,783. CORN HARVESTER. LONDELL CAMERON FORREST, Kit Carson, Colo., assignor, by direct and mesne assignments, to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Mar. 2, 1929. Serial No. 344,000. 43 Claims. (Cl. 56—18.)

1. A harvester comprising in combination, a vehicle frame, a pair of gatherer frames disposed at opposite sides thereof, means for vertically adjusting the forward ends of the gatherer frames relative to the vehicle frame, gathering mechanism operatively carried by the gatherer frames, picking mechanism at one end of the gatherering



mechanism, a sheller positioned on the vehicle frame, means conveying the corn ears from the picking mechanism to the sheller, and means for discharging the shelled corn and the waste materials at opposite ends of the harvester.

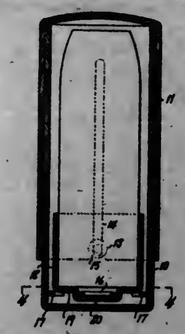
1,919,784. LOOSE LEAF BINDER. STANLEY B. FREIBERG, Cincinnati, Ohio. Filed Aug. 14, 1929. Serial No. 385,884. 12 Claims. (Cl. 129—9.)



1. In a device of the class described the combination with opposed sets of prongs having overlapping ends and between which sets of prongs, record sheets retained in the device, may be moved back and forth, of means for selectively moving the sets of prongs in directions at right-angles to one another with the ends in overlapping relationship for positioning the sets of prongs relative one another to permit removal, insertion and shifting of record sheets.

1,919,785. HOLDER FOR COSMETICS. ALBERT HAGEL, Newark, N. J., assignor to Consolidated Safety Pin Company, Bloomfield, N. J., a Corporation. Filed Feb. 15, 1933. Serial No. 656,866. 1 Claim. (Cl. 206—56.)

The combination with a casing, of a holder in said casing and longitudinally movable therein, a portion of the bottom wall of the holder offset, forming a plate, and a friction spring comprising a central yoke, and side arms,



the yoke portion bearing on said plate and the arms adapted to frictionally engage with the side walls of the casing.

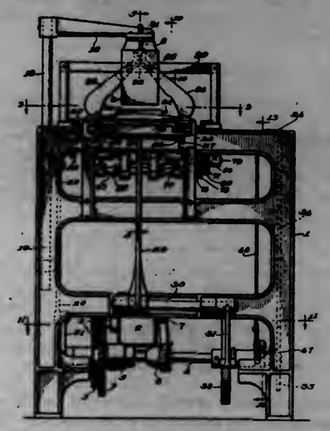
1,919,786. DABBING BRUSH. FRANK H. HARDY, Andover, Mass. Filed Apr. 14, 1931. Serial No. 529,975. 16 Claims. (Cl. 19—124.)



1. A brush structure for combing machines and the like, comprising a main brush and a detachable brush-section engaging the main brush so as normally to be held immovably thereby, and means on the main brush normally retaining the detachable section in active position in association with the main brush.

10. A brush structure for combing machines and the like, comprising a base designed for connection to a moving machine-part and of substantially cellular form, a brush secured to the base, and a reenforcing and supporting plate between the brush and the base and covering the cells.

1,919,787. CARTON FORMING MACHINE. EMIL G. JURGENS and HAZEN K. BECKER, Chicago, Ill., assignors to Peters Machinery Co., Chicago, Ill., a Corporation of Illinois. Filed June 19, 1931. Serial No. 545,462. 7 Claims. (Cl. 93—51.)



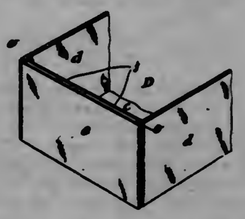
1. In a carton blank folding machine, a support for carton blanks having an opening therein, a reciprocating die for engaging a portion of the blank and forcing the blank through such opening, means for engaging side and end portions of the blank and folding them upwardly as the blank passes through said opening, a shaft extending parallel with one side of said opening and carrying end flap folding elements, means for rotating said shaft and the folding elements carried thereby, said folding elements being provided with means for engaging and ejecting the cartons after the folding thereof.

1,919,788. GAS BURNER. HENRY KIELBERG, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed Oct. 27, 1930. Serial No. 491,331. 4 Claims. (Cl. 158—104.)



1. A gas burner comprising a casing, substantially rectangular in top plan, having side and end walls, and a closure of channel form fitted within the top of said casing and including parallel side walls disposed in closely seated relation to the side walls of said casing, the said relatively seated side walls being shaped relatively to provide intermediate spaced ports for egress of gas from the interior of said casing, one end wall of said burner having therein an opening for the admission of air below the plane of said ports.

1,919,789. BOX AND BLANK THEREFOR. CUTLER D. KNOWLTON, Beverly, Mass., assignor to Hoague-Sprague Corporation, Lynn, Mass., a Corporation of Massachusetts. Original application filed Aug. 29, 1927, Serial No. 216,220. Divided and this application filed Feb. 10, 1930. Serial No. 427,206. 11 Claims. (Cl. 229—32.)

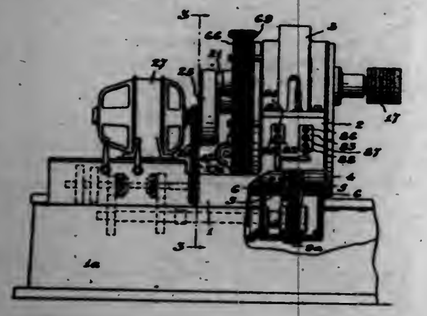


1. A box comprising walls including shell-material, there being an extension formed solely from the material of one wall and including a reduced portion of the shell-material of substantially uniform thickness, said extension being folded upon itself along substantially the entire length of the wall to which it is joined and secured in this position.

1,919,790. FEED MECHANISM FOR GRINDING MACHINES. ARTHUR A. KOTTMAN, Davenport, Iowa, assignor, by mesne assignments, to The Micro Corporation, Bettendorf, Iowa, a Corporation of Delaware. Filed Nov. 25, 1930. Serial No. 498,059. 22 Claims. (Cl. 51—90.)

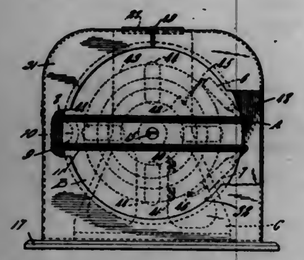
1. In a machine for grinding cylindrical surfaces, a rotatable headstock cylinder, a spindle supporting member mounted on said cylinder for movement relative thereto, a spindle rotatably carried by said member, a grinding wheel carried by said member, and means for moving said member to cause bodily movement of said spindle and grinding wheel relative to a piece of work, said means comprising a feed screw threadably carried by said member, reversible means for rotating said screw at a relative-

ly high speed in either direction to provide rapid traverse of said wheel relative to the work, an electric motor carried by said cylinder for driving said reversible means,



and an electrically operated second means for rotating said screw at a relatively slow speed to provide fine feed movement of said wheel relative to the work.

1,919,791. EYE TESTING APPARATUS. JOHN D. LARKIN, 3d, Buffalo, N. Y. Filed Jan. 15, 1931. Serial No. 508,952. 5 Claims. (Cl. 88—20.)



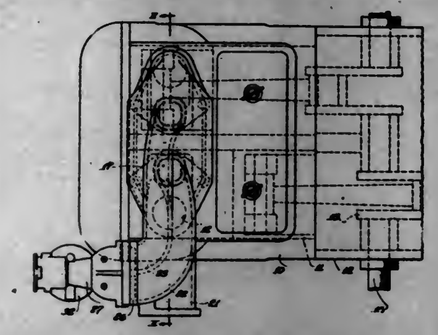
1. An eye sight testing apparatus, including a disk mounted to be adjusted about its axis, a light source in the form of a tube mounted on said disk and having a straight part extending across the front face of said disk and having its ends arranged at the rear of said disk, and means for partially covering said straight portion of said tube to cause light to pass from said tube only through a narrow slit.

1,919,792. VAT DYE PRINTING. LUDWIG LICHTENSTEIN, Vienna, Austria, and JAKOB KLEIN, deceased, Koeniginhof, Czechoslovakia, by Hedwig Martha Klein, executrix, Baden, near Vienna, Austria. Filed Oct. 1, 1931. Serial No. 566,320. 3 Claims. (Cl. 8—5.)

1. The method of printing with vat dyestuffs of the indigoid type, which comprises as an essential step the fixing of the dyestuff by means of glucose in the presence of alkali metal carbonate and an anthraquinone or derivative thereof, transformable readily, by reducing agents, into its oxyanthranole or corresponding oxyanthranolic derivative.

1,919,793. ENGINE. TORBJORN LINGA, Kokomo, Ind., assignor to Kingston Products Corporation, Kokomo, Ind., a Corporation of Indiana. Filed June 4, 1930. Serial No. 459,239. 3 Claims. (Cl. 123—52.)

1. In combination with a two cylinder four stroke internal combustion engine wherein the firing intervals are uneven, a combined exhaust and intake manifold therefor including individual downdraft intake passages for each cylinder in heat interchanging relationship to the exhaust passages therein, and a dual carbureter having separate



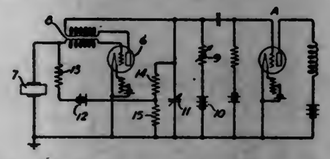
mixture outlet passages for said intake passages, said outlet passages being controlled by individual throttle valves.

1,919,794. SAFETY RAZOR. GROSVENOR D. MARCY, Newton Highlands, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware. Filed June 7, 1932. Serial No. 615,885. 18 Claims. (Cl. 30—12.)



1. A safety razor comprising a member having a blade-supporting face, and a cap for flexing a blade thereon consisting of sections pivotally mounted respectively at the longitudinal edges of said member outside its blade-supporting face.

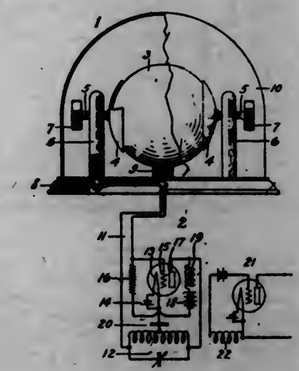
1,919,795. SUBHARMONIC FREQUENCY PRODUCER. WARREN A. MARRISON, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Original application filed May 11, 1928, Serial No. 277,018. Divided and this application filed July 31, 1929. Serial No. 382,806. 10 Claims. (Cl. 250—36.)



1. In combination, a crystal controlled oscillator comprising an anode and a control electrode, and a means comprising a condenser direct current source of potential

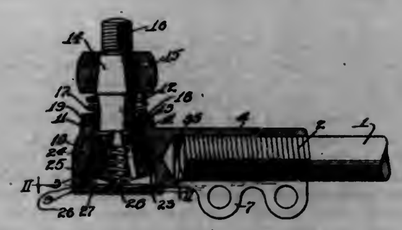
for charging said condenser and for supplying said anode and a potentiometer in shunt with said condenser, for controlling the production of a wave having a frequency which is a sub-multiple of the crystal frequency, said means also comprising a connection to said potentiometer whereby the steady potential of said control electrode is a function of the potential of said condenser.

1,919,796. MECHANICAL VIBRATING ELEMENT. WARREN A. MARRISON, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 29, 1930. Serial No. 448,271. 4 Claims. (Cl. 171—327.)



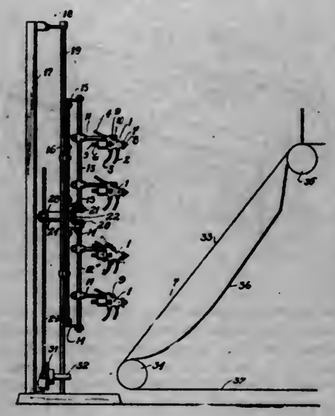
1. A piezo electric frequency controlling element having a substantially spherical form.

1,919,797. TIE ROD END. EDWIN R. MAURER, Detroit, Mich., assignor to Thompson Products Incorporated, Cleveland, Ohio, a Corporation of Ohio. Filed July 13, 1931. Serial No. 550,326. 7 Claims. (Cl. 287—90.)



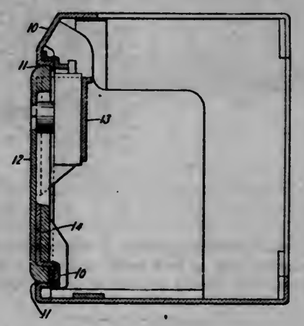
6. A ball joint comprising an inverted cup shaped housing having a hemispherical upper wall with an aperture therethrough, seat members in said housing having outer spherical surfaces and inclined inner surfaces, a stud member extending through the aperture in said top wall having inclined surfaces contacting the inclined surfaces of said seat members, and resilient means in said housing acting against a portion of said housing and against said stud for urging said stud member into contact with said seat members.

1,919,798. APPARATUS FOR COLORING AND DECORATING PAPER. JAMES DONALD MACLAURIN, South Orange, N. J., assignor to Marathon Paper Mills Company, Rothschild, Wis., a Corporation of Wisconsin. Filed Feb. 15, 1930. Serial No. 428,643. 2 Claims. (Cl. 91—45.)



2. An apparatus for producing designs on paper, comprising vertical oscillatable shafts, nozzles mounted thereon, and means for carrying paper past said shafts in an upwardly inclined direction and means for producing a rotary oscillation in said shafts.

1,919,799. TELEPHONE PAY STATION RECEPTACLE. JOHN M. MELICK, Cresskill, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 17, 1928. Serial No. 312,961. 5 Claims. (Cl. 232—44.)

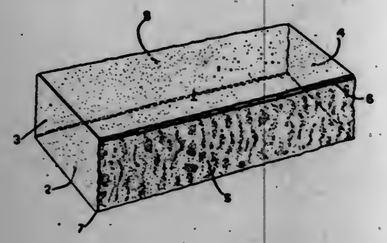


1. A coil receptacle comprising a compartment having an opening therein, a cast steel door for closing said opening, a plurality of lugs of strip steel, each of said lugs having a flat portion rigidly held between the outer and inner layers of said door and another portion projecting through the inner layer for engaging the inside of the compartment at the edge of the opening therein.

1,919,800. PROCESS OF CUTTING BLOCKS OF STONE. JOHN B. NEWSOM, Bloomington, Ind. Filed Feb. 9, 1929. Serial No. 338,696. 2 Claims. (Cl. 125—23.)

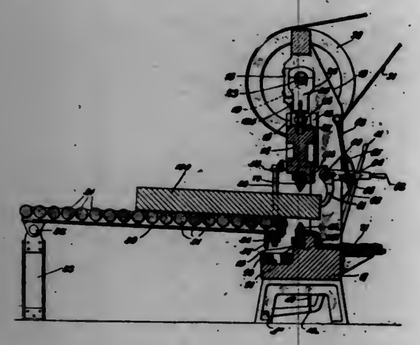
1. The method of making a stone building block whose thickness between top and bottom faces is great compared

to the area of said top and bottom faces, which comprises applying, gradually, fracturing pressure along substantially straight lines on opposite top and bottom faces of a slab of stone, first to crush grooves in said slab and then to crack said slab along said grooves into two pieces of stone having fractured faces extending between said lines, the fracturing pressure exerted on one



piece of stone being greater than that exerted on the other piece to cause the fractured surfaces to be generally curved in a direction from one of said substantially straight lines to the other, at least one of said pieces being a stone building block whose thickness between top and bottom faces is great compared to the area of said top and bottom faces.

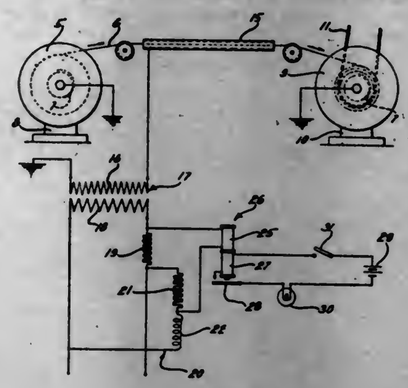
1,919,801. MACHINE FOR MAKING BUILDING BLOCKS. JOHN B. NEWSOM, Bloomington, Ind. Filed Feb. 12, 1931. Serial No. 515,201. 17 Claims. (Cl. 125—23.)



14. In a stone cutting machine, a stationary lower jaw, a movable upper jaw, a feed table secured to said upper jaw at one end and fixedly supported at the other end.

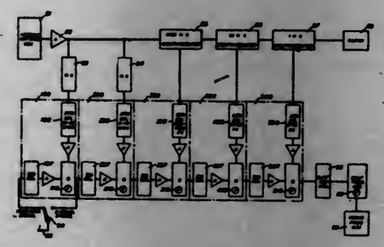
1,919,802. APPARATUS FOR TESTING INSULATION. CONRAD L. PFEIFFER, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 25, 1929. Serial No. 394,937. 3 Claims. (Cl. 175—183.)

1. In a device for testing insulated wire, a transformer having a primary coil and a secondary coil, a tubular electrode through which the insulated wire passes without contact therewith, the electrode being connected to one terminal of said secondary transformer coil and the other terminal of said coil being connected to the metal of said wire, a balanced Wheatstone bridge composed as to one side thereof of the said transformer primary coil and a first non-inductive resistance in series therewith and composed as to the other side of the said Wheatstone bridge of an induction coil having impedance equal to that of the said primary coil and a second non-inductive resistance in series with the said first non-inductive re-



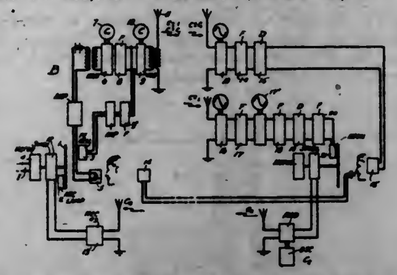
sistance and electrically equivalent thereto, and detector means forming the bridge circuit of the said Wheatstone bridge.

1,919,803. MEASURING AND INDICATING SYSTEM. ALFRED A. ROSTKER, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 17, 1931. Serial No. 523,297. 6 Claims. (Cl. 175—368.)



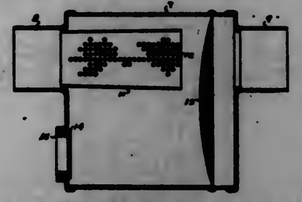
1. In a frequency measuring system, a plurality of beating stages in each of which the wave being measured is combined with a wave of known frequency to produce a beat frequency of one less digit than that of a preceding stage and having as a first digit one of the numerals five, six, seven, eight or nine, each stage comprising a signal selector calibrated to indicate the first digit of the unknown frequency wave supplied to that stage, a standard selector calibrated to indicate the frequency of the known frequency wave supplied to that stage, two series of indicators, one series bearing the numerals five, six, seven, eight and nine respectively and the other series bearing the numerals four, three, two, one and naught, respectively, each indicator of the second seris being associated with the corresponding indicator of the first series, an inverting relay, an auxiliary relay, and connections whereby when the inverting relay is in the release position that one of said first series of indicators which corresponds to the setting of the signal selector will be operated and when the inverting relay is in the operated position, the corresponding one of the second series of indicators will be operated, and connections for operating said relays so that the indicators are operated to give directly the frequency of the wave being measured.

1,919,804. TRANSMISSION OF SOUND AND IMAGES. FRANCIS M. RYAN, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 19, 1927. Serial No. 185,028. 10 Claims. (Cl. 250—9.)



1. The method which comprises producing electric currents having a characteristic variation corresponding to the appearance of a speaker at a transmitting station, simultaneously producing other electric currents having a characteristic variation corresponding to his speech, simultaneously modulating the same carrier wave with both of said current variations in a manner such that the frequency bands covered by the respective modulations occupy different positions in the frequency spectrum and utilizing said wave at the receiving station in the production of an image of the speaker and in the reproduction of his speech so that an observer thereat may simultaneously see and hear said speaker at the transmitting station.

1,919,805. FILTERING MEANS. THEODORE A. SCHORNLAU, St. Louis, Mo. Filed Oct. 11, 1930. Serial No. 487,998. 4 Claims. (Cl. 210—165.)

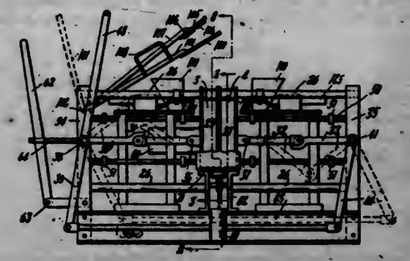


1. A filtering device for automotive cooling systems, adapted for connection in a radiator inlet line and including a cylindrical container having its major axis parallel to said radiator line, and formed of sheet metal and provided at its opposite ends and in its upper portion with aligned openings forming a fluid passage therethrough, a conduit within the container, formed of perforate material, and disposed in line with said openings, and terminating within the container, a concavo-convex filtering screen disposed between the open end of said conduit and one of said openings, and having its convex surface facing the open end of said conduit, said conduit being of increased diameter from its inlet to an open discharge end, and disposed with its discharge end extended toward said screen, but in spaced relation thereto, a drainage fitting in the lower portion of said container, and a detachable closure for said drainage opening.

1,919,806. MAGNETIC MATERIAL. HANS SCHULZ, Charlottenburg, Berlin, Germany, assignor to Siemens and Halske Aktiengesellschaft, Siemensstadt near Berlin, Germany, a German Company. Filed Apr. 28, 1932, Serial No. 606,138, and in Germany May 20, 1931. 6 Claims. (Cl. 175—21.)

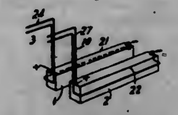
1. A method of electrically insulating magnetic material which comprises coating the material with a film of metallic copper, and converting the copper into copper oxide.

1,919,807. MACHINE FOR MOLDING ARTICLES. HARRY SHARPE, Boston, Mass., assignor to Arthur B. Marsh, Melrose, Mass., trustee. Filed Sept. 14, 1929. Serial No. 392,560. 8 Claims. (Cl. 25—41.)



4. A molding machine comprising a receptacle having relatively movable side and end walls, each of said end walls comprising a pair of portions movable toward and from each other, and when moved together forming with said side walls a space to receive plastic material, and means for moving said portions apart while said side walls remain stationary and act as strippers and thereafter to separate said side walls to free the molded block.

1,919,808. POWER SUPPLY SYSTEM. HUMPHREYS O. SIEGMUND, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 1, 1930. Serial No. 417,843. 3 Claims. (Cl. 171—314.)



1. In combination, storage batteries for use as a source of direct current, a generator for charging one of said storage batteries and conductors for connecting said one battery to its generator while the other battery is connected to a load circuit, said conductors, including said batteries, being arranged so that there will be no inductive effects evidenced in those conductors through which energy is being supplied to the load circuit from those conductors which are supplying energy from said generator to said one battery.

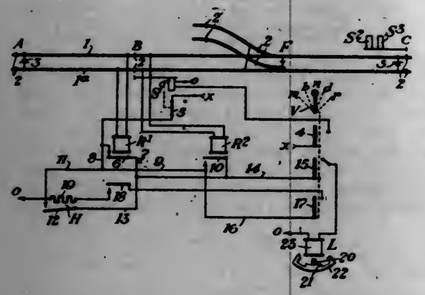
1,919,809. BARREL HANDLING AND TREATING MECHANISM. KARL F. SNOW, Brecksville, Ohio, assignor to The C. O. Bartlett & Snow Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 11, 1930. Serial No. 427,626. 2 Claims. (Cl. 34—12.)



1. In an apparatus of the character described, the combination of a horizontal extending pre-drying chamber, with a coating chamber and a post drying chamber, of a cradle conveyor for carrying barrels from said coating chamber and through said post drying chamber, said post drying chamber being superposed upon said pre-drying chamber, and comprising an elongated closed conduit having a horizontal partition extending therein, the inlet

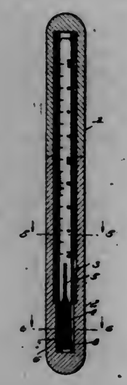
and outlet of said conduit facing downwardly and lying below the floor adjacent the inlet of the post-drying chamber, said conveyor extending vertically adjacent said coating chamber from a point therebelow, whereby coated barrels may be received from said coating chamber and then carried upwardly and into said post drying chamber.

1,919,810. RAILWAY TRAFFIC CONTROLLING APPARATUS. LESTER E. SPRAY, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Jan. 3, 1930. Serial No. 418,218. 12 Claims. (Cl. 246—135.)



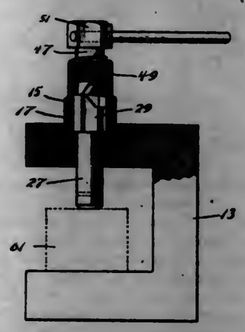
1. In combination, a manually operable lever, a railway traffic governing device controlled by said manually operable lever, and means controlled by said traffic governing device for preventing operation of said manually operable lever for a measured period of time after response of the device to an operation of the lever.

1,919,811. THERMOMETER CASE. HAROLD E. STONEBRAKER, Rochester, N. Y. Filed June 27, 1931. Serial No. 547,328. 2 Claims. (Cl. 206—16.5.)



1. A thermometer case comprising two sections, each constructed of soft resilient material of substantial thickness to afford a supporting cushion for the thermometer throughout its length, each of said sections having a longitudinal bore substantially larger in diameter than the diameter of the thermometer, and resilient flexible longitudinally extending fins formed integral with the body of the sections and projecting radially into the bore, said fins being of such width as to lightly engage a thermometer of minimum diameter and of such thinness as to bend readily when a thermometer of maximum diameter is inserted so that either a large or small diameter thermometer is held frictionally with such pressure as to permit its easy withdrawal.

1,919,812. CLAMPING DEVICE. ANDREW W. SWANSON, Chicago, Ill., assignor to Illinois Tool Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 5, 1931. Serial No. 513,635. 12 Claims. (Cl. 90—59.)



3. In a clamping device, a frame, a clamping member supported in said frame, a driving member mounted in said frame, means providing a threaded connection between one of said members and said frame, said driving and clamping members having co-operating cam means for imparting axial movement in the clamping member in response to the relative rotation between the clamping and driving members, said cam means having a portion of greater pitch than the pitch of the threaded means aforesaid.

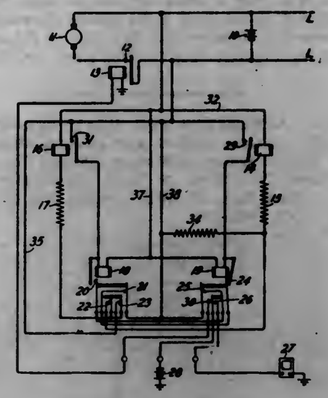
1,919,813. RUG HOOK. JOHN P. TIBBUTT, Blackwell, Okla. Filed July 5, 1932. Serial No. 620,779. 2 Claims. (Cl. 112—80.)



1. In a rug hook mechanism, a pair of arms pivotally connected, each arm having a looped handle and a spring positioned between the handles to rock the same outward, a pointed and seated hook element on the other end of one of the arms and a pointed hook element on the other end of the other arm, the said hook portions directed toward each other and adapted to engage and space the said arms apart in parallelism when rocked to a closed position for the purpose specified.

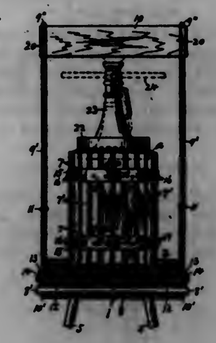
1,919,814. ELECTRIC CONTROL SYSTEM. DAVID E. TRUCKSESS, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 4, 1929. Serial No. 330,187. 10 Claims. (Cl. 171—314.)

1. A control system comprising a pair of control relays, a high voltage relay adjusted to operate when the voltage of the system has reached a predetermined value, means responsive to the operation of the high voltage relay for actuating one of said control relays, means including said actuated control relay for releasing the other of said control relays and for releasing said high voltage



relay and means responsive to the release of said second mentioned control relay for locking the first mentioned control relay in actuated position.

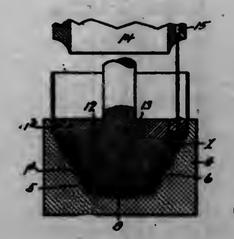
1,919,815. PRESS. JAMES N. VILLANO, Syracuse, N. Y. Filed June 17, 1932. Serial No. 617,727. 3 Claims. (Cl. 100—44.)



1. A fruit press comprising a concrete base, trunnions imbedded in and projecting outwardly from the base, a receptacle resting on the base, upright frames mounted on the trunnions and extending upwardly therefrom some distance above the receptacle, a cross beam mounted on the frames across the top of the receptacle, a press head movable in the receptacle, a screw jack between the head and cross beam for forcing the head downwardly, bolts anchored in the bed, and clamping plates engaged with the outer faces of the frames and secured in place by said bolts for holding the frames against axial displacement from the trunnions.

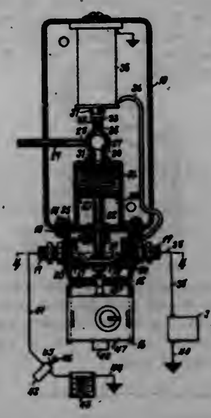
1,919,816. PROCESS OF FORMING ELECTRIC RESISTANCE HEATING ELEMENTS. EDWIN L. WIEGAND, Pittsburgh, Pa. Filed Dec. 11, 1929. Serial No. 413,181. 5 Claims. (Cl. 201—67.)

1. The method of making a frusto-conical electrical resistance heating element which consists in positioning within a mold a winding form frusto-conical in shape and having a resistor positioned thereon in a plurality of superposed coils, compacting a layer of electrically insulating material about said resistor to partially embed the same,



removing the form and compacting a second layer of similar material about said resistor so as to conceal the same and then further compacting the mass thus formed.

1,919,817. AUTOMATIC CUT-OUT DEVICE FOR THE STARTING MOTORS OF INTERNAL COMBUSTION ENGINES. EDSON B. WILCOX, Meriden, Conn. Filed Sept. 15, 1931. Serial No. 562,888. 6 Claims. (Cl. 290—38.)

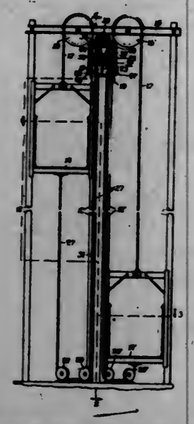


1. In a device of the class described, the combination with an internal-combustion engine, a starting-motor for the said engine and an electric circuit for the said motor; of an automatic vacuum-operated switch interposed in the said circuit and constructed and arranged to be moved into its open-circuit position by suction developed by the said engine electro-magnetic means associated with the said switch and connected into the said circuit and constructed and arranged so as to act, when energized by current flowing in the said circuit, to prevent the said vacuum-operated switch from being moved into its open-circuit position by the suction action of the said engine.

1,919,818. AUTOMATIC CONTROL FOR HOISTING MACHINES. ALEXANDER H. WILSON, Oak Park, Ill., assignor to Thomas Elevator Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 3, 1932. Serial No. 645,564. 10 Claims. (Cl. 187—2.)

1. In a building material hoist of the type described, the combination of a pair of vertical guideways, lifts slidable in said guideways, pulleys mounted on the top of said

guideways, a lift-operating cable connected to said lifts and trained over said pulleys, a control cable, a trip cable connected at its ends to the bottom of said lifts, guiding



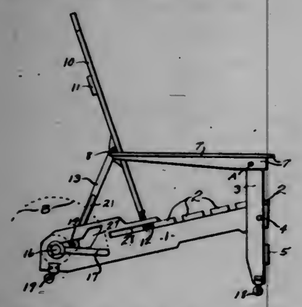
means for said trip cable, strikers on said trip cable, and means actuated by said strikers for operating said control cable.

1,919,819. PACKAGE AND METHOD OF SEALING THE SAME. WILLIAM M. WILLIAMS, Evanston, Ill., assignor to B. F. Gump Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 8, 1930. Serial No. 500,723. 2 Claims. (Cl. 229—65.)



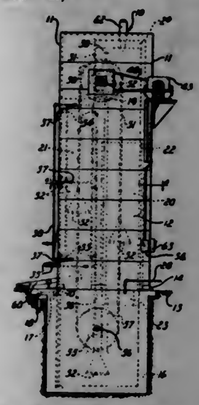
1. A package having a folded neck portion, a metal member attached to the folded neck portion and bent over the body of the bag and a strip of adhesive tape glued over the folded neck portion and over the body in superposed relation with said metal strip.

1,919,820. ADJUSTABLE CHAIR. ERNEST ASHLEMAN, Wichita, Kans. Filed Oct. 14, 1931. Serial No. 568,666. 3 Claims. (Cl. 155—117.)



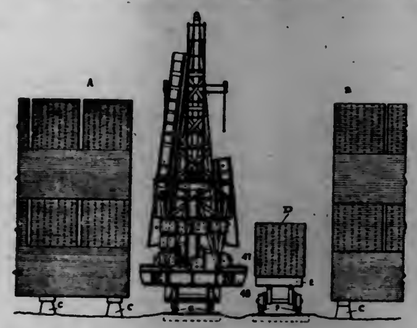
1. In an adjustable chair of the class described comprising a pair of side rails and front legs pivotally carrying the front ends of the rails, the side rails having a seat arranged thereon the side rails carried by the front legs and rearwardly extending, a back pivotally mounted on the side rails, and an arm pivotally connecting the upper end of each front leg to its respective side of the back, a shaft trunnioned and carried by the rear ends of the side rails, and a crank thereon to rotate the same, arms secured to the shaft and rockable therewith, standards pivotally connecting the free ends of the arms with the back as rocking means therefor when the shaft is rotated.

1,919,821. APPARATUS FOR HEAT TREATING ARTICLES. HARRY BLOUNT and HAROLD SHEBL, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 12, 1930. Serial No. 495,086. 1 Claim. (Cl. 266—4.)



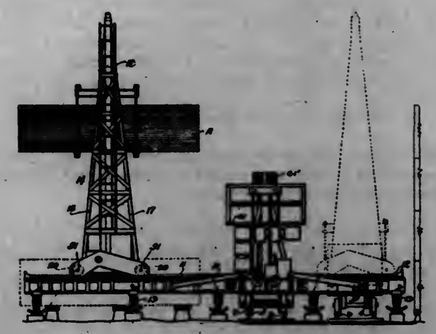
In an apparatus for treating articles, a liquid bath for saturating the articles, a vertical heating chamber for the articles, a soaking chamber connected thereto, a cooling chamber connected to the soaking chamber, an endless conveyor for continuously carrying the articles through said portions in succession, and means for driving the conveyor.

1,919,822. PILING IMPLEMENT. ROBERT T. BOWLING, Lewiston, Idaho, assignor, by mesne assignments, to Potlatch Forests, Inc., Lewiston, Idaho. Filed June 15, 1931. Serial No. 544,438. 2 Claims. (Cl. 104—48.)



1. In an implement as described, the combination with a wheeled truck having a fixed transversely extending beam forming part of the truck-frame, and a rail mounted on said beam, of a complementary foldable beam adapted for horizontal alinement with the fixed beam and a rail mounted on the foldable beam, hinge arms pivoted at one end on the truck and connected to said foldable beam, and means on the truck for lifting the foldable beam to inoperative position.

1,919,823. PORTABLE CRANE. ROBERT T. BOWLING, Lewiston, Idaho, assignor to Potlatch Forests, Inc., Lewiston, Idaho. Filed Feb. 2, 1932. Serial No. 590,383. 3 Claims. (Cl. 212—11.)



1. In a portable crane, the combination with a pair of spaced, articulated trucks, and a fixed, transversely disposed track on each truck, of a wheeled tower supported on each truck and propelling means for each tower, a screw mounted on each tower and separate means for turning the screws, a vertically reciprocable hoist, and guides rigid with the hoist and in driving relation to said screws, for said hoist.

1,919,824. SEPARABLE FLORAL RACK. CLARENCE A. BRUNING, Colfax, Wash. Filed Jan. 19, 1932. Serial No. 587,471. 1 Claim. (Cl. 211—161.)



The combination in a floral rack, of a pair of separable rack sections, one of said sections comprising a pair of upright bars and an upper cross rod joining said bars, the other section comprising a pair of upright bars and cross rods uniting these bars, the uppermost of said last mentioned cross rod frictionally engaging said first mentioned upright bars; said second section having hooks loosely engaging the first mentioned cross rod, said hooks being arranged at the outer sides of said first mentioned bars to prevent lateral displacement of said sections, and a brace frame pivoted on one section and detachably engaging the other section.

1,919,825. TREATING CRACKED DISTILLATES. ROBERT E. BURK, Cleveland, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 28, 1929. Serial No. 389,083. 17 Claims. (Cl. 44—9.)

1. A process of improving cracked petroleum distillates, which comprises aminizing components of such distillate material, thereby attaining a fuel stable against gum-formation.

4. A process of improving cracked petroleum distillates, which comprises halogenating the distillate material, and aminizing, thereby attaining a fuel stable against gum-formation.

5. A process of improving cracked petroleum distillates, which comprises halogenating petroleum hydrocarbon gas and incorporating the product in the cracked distillate, and aminizing the halogenated compound.

1,919,826. METHOD OF FORMING THREADED BUSHINGS. LEWIS H. CHURCH, Westfield, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a Corporation of New Jersey. Filed Sept. 15, 1931. Serial No. 562,879. 8 Claims. (Cl. 10—86.)



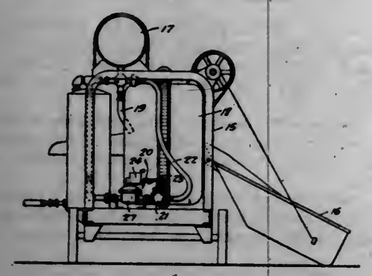
1. A method of finishing a cylindrical coupler nut blank having a thin wall comprising forcing the coupler nut blank into a die having cutting teeth disposed circumferentially within the die for a substantial distance which teeth cut into the surface of the cylindrical nut blank and form knurls, holding the nut blank with the teeth of the die, performing finishing operations upon the nut blank while held within the die, and removing the finished nut from the die.

1,919,827. METHOD OF EMBOSSING LEATHER AS APPLIED TO BACKS OF LOOSE LEAF BINDERS. JAMES COOPER, Syracuse, N. Y., assignor to Hall & McChesney, Syracuse, N. Y., a Corporation of New York. Filed Sept. 26, 1932. Serial No. 634,924. 6 Claims. (Cl. 281—36.)



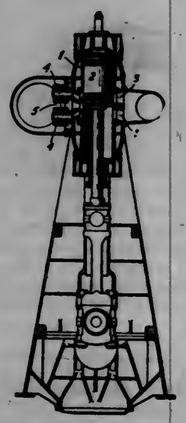
2. The herein described method of applying a single piece of leather to an embossed surface consisting in moistening the leather, embossing the same under pressure complementary to said embossed surface, and then adhesively securing the embossed leather to the embossed surface with the complementary parts in registration.

1,919,828. LIQUID MEASURING SYSTEM. WALTER O. CROSBY, Los Angeles, Calif., assignor to Francis Walter Guibert, Beverly Hills, Calif. Filed Mar. 6, 1929, Serial No. 344,823. Renewed Feb. 21, 1933. 22 Claims. (Cl. 221—101.)



1. In a device of the character described, a liquid flow meter, a valve connected thereto, said valve having means whereby the pressure of the liquid can keep it in closed position, and means whereby said pressure is released to open the valve.

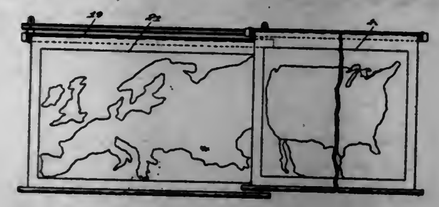
1,919,829. TWO-CYCLE INTERNAL COMBUSTION ENGINE. CHARLES G. CURTIS, New York, and EARLE R. NEWTON, Jamaica, N. Y. Filed Oct. 1, 1931. Serial No. 566,244. 5 Claims. (Cl. 123—61.)



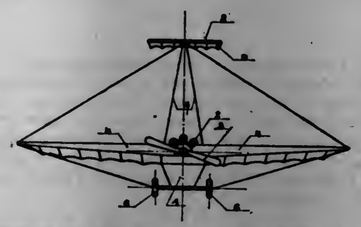
1. A two-cycle internal combustion engine comprising a cylinder, exhaust ports and air inlet ports arranged in that end of the cylinder wall remote from the combustion end, the exhaust ports on one side and the air inlet ports on the other, said air inlet ports arranged in two transverse planes, the air inlet ports in each of the said planes comprising oppositely disposed ports turned back toward the inlet side of the cylinder wall so arranged that the air streams issuing from them come together as opposing streams and set up a flow toward the combustion end of the cylinder on the inlet side.

1,919,830. DISPLAY-SHEET-SUPPORTNG STRUCTURE. EUGENE R. CAMPBELL, La Grange, Ill., assignor to Rand, McNally & Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 11, 1932. Serial No. 604,547. 11 Claims. (Cl. 40—83.)

1. A display-sheet-supporting structure comprising a plurality of substantially horizontally disposed parallel supporting members, and rigidly connected members for supporting both ends of sheets supported on said first-named members, said second-named members being relatively movable with the sheets in either direction lengthwise of said first-named members into positions in which they extend on said first named members beyond the ends thereof, for the purpose set forth.

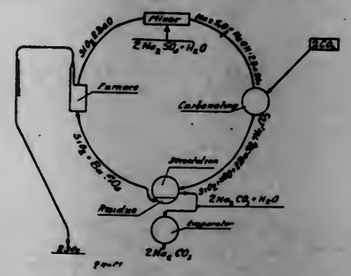


1,919,831. STABILIZING DEVICE FOR AIRCRAFT. CHARLES ROGER ANNE MARIE DE ROUGE, Vouysses Par Mercues, France. Filed Feb. 19, 1931, Serial No. 517,083, and in France Feb. 24, 1930. 3 Claims. (Cl. 244—29.)



1. Longitudinally and transversally stabilising device for aircrafts, comprising only a vertical mast the height of which is at least twice the breadth of the wings, at the top of said mast a transverse shaft, a longitudinal shaft adapted to pivot round the transverse one, reversible means for controlling said rotation with a large play, a stabilising plane the area of which is at least one eighth of the supporting surface of the aircraft and adapted to pivot round said longitudinal axis, reversible means for controlling said rotation, elastic means for restoring said plane in its mean position with reference to the shaft.

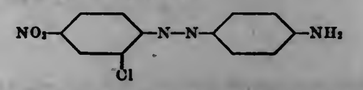
1,919,832. PROCESS OF MANUFACTURE OF ALKALI METAL CARBONATES. CAMILLE DEGUIDE, Enghien, France, assignor to International Industrial & Chemical Company, Ltd., Montreal, Canada, a Corporation of Canada. Filed Nov. 11, 1929, Serial No. 406,539, and in France Nov. 21, 1928. 4 Claims. (Cl. 23—63.)



1. A process of manufacture of alkali metal carbonates from alkali metal sulphates, consisting in treating an alkali metal sulphate by water and a barium silicate, directly treating the mixture resulting from the reaction with carbonic acid to form a solution of alkali metal carbonate, separating said solution of alkali metal carbonate from the insoluble residue, consisting of silica and sulphate of barium, and evaporating the water of the said solution to recover the alkali metal carbonate.

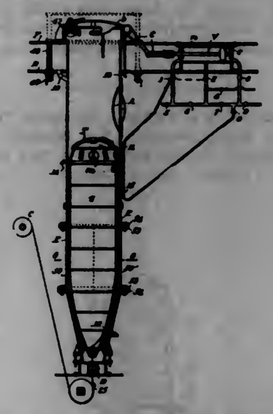
1,919,833. AZO-DYESTUFFS AND PROCESS OF MAKING SAME. FRIEDRICH FELIX, Basel, Switzerland, assignor to the Firm of Society of Chemical Industry in Basle, Basel, Switzerland. Filed Sept. 26, 1932, Serial No. 634,987, and in Switzerland Oct. 12, 1931. 5 Claims. (Cl. 260—96.)

5. The product of the formula



which product forms a red powder which dissolves in acetic ester to an orange-red solution, and dyeing acetate silk from a fine aqueous suspension fast orange tints.

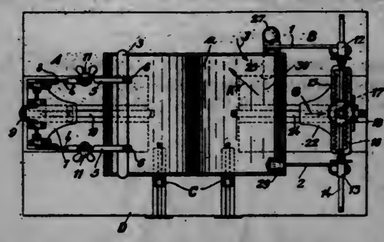
1,919,834. RESCUE DEVICE FOR SUBMARINES. ARTURO GENOVA, Madrid, Spain. Filed June 8, 1931, Serial No. 542,987, and in Spain July 11, 1930. 3 Claims. (Cl. 114—16.7.)



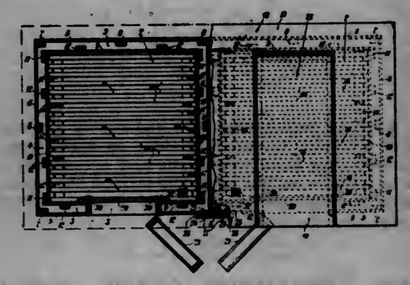
1. A device for rescuing the crews of submarines comprising a receiving chamber mounted in the shell of the boat a hatch-cover on the receiving chamber, means for placing the receiving chamber in communication with the surrounding water and with the atmosphere inside the submarine alternatively, an elevator in the form of a buoy adapted to contain a man and to be lodged in the receiving chamber, and means for releasing the loaded elevator from the receiving chamber through the hatch, and means for drawing the elevator back into the receiving chamber, a piston, a connection between the piston and hatch cover, valves whereby the opposite sides of the piston may be alternately put in communication with the surrounding water or with the atmosphere in the submarine, and a fluid conducting connection between the piston and said chamber, and a valve for controlling said connection and operable from within said chamber.

1,919,835. READING DEVICE FOR A BOOK. FRITZ GIESE, Berlin-Halensee, Germany. Filed Dec. 4, 1930, Serial No. 500,091, and in Germany Dec. 7, 1929. 4 Claims. (Cl. 45—61.)

1. A reading table comprising in combination a plate, adjustable supporting means on the lower edge of the plate for the book to be placed on the plate, holding means on both lateral parts of the plate displaceable in the direction towards the back of the open book, the said holding means on the side of the plate for the leaves of the book not yet turned over including a specially constructed arrangement which engages only the right lower corner of the uppermost leaf, the spacially constructed arrangement including a roll and an elastic support for the roll.

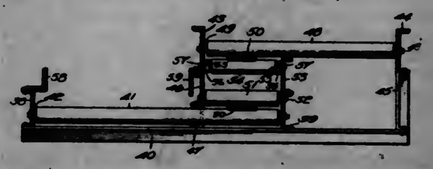


1,919,836. JACKETED APPARATUS FOR CONVERTING ORGANIC MATTER. JOHN B. GOLDSBOROUGH, Croton-on-Hudson, N. Y., assignor to Underpinning and Foundation Company, New York, N. Y., a Corporation of New York. Filed Feb. 23, 1928. Serial No. 256,460. 4 Claims. (Cl. 71—1.)



1. In apparatus for converting organic matter, an exterior housing having air-confining walls forming separate housing chambers, fermentation cells in the different chambers having upright, ventilated sides sectional removable grates in said cells forming with the sides of the latter ventilated compartments for holding heaps of organic matter, there being openings from the exterior of said housing into the compartments of the different fermentation cells, closures for said openings, and means to effect a restrained air circulation through said cells.

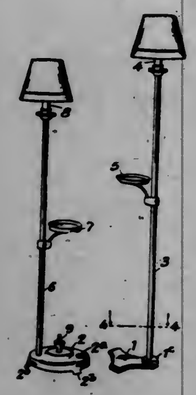
1,919,837. CONVEYER. HENRY R. GOTTHARDT, Louisville, Ky., assignor to Logan Co. Inc., Louisville, Ky., a Corporation of Kentucky. Filed Sept. 16, 1931. Serial No. 563,165. 3 Claims. (Cl. 198—127.)



1. Apparatus of the character described comprising a pair of horizontal conveyers each having load supporting rollers, a common flexible driving element having its runs vertically arranged one above the other, the rollers of each conveyer having one end overlapping the vertical plane of the flexible driving element and frictionally engaged therewith to be driven thereby, the other end por-

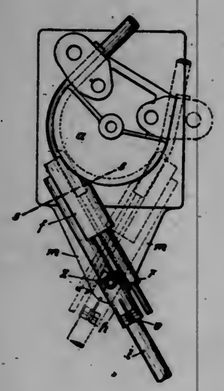
tions of the rollers extending a substantial distance laterally from the vertical plane of the driving element from opposite sides thereof, and idler rollers operating against said driving element for maintaining it in frictional engagement with the first named portions of said rollers.

1,919,838. NESTED BASE FOR LAMPS, ETC. JAMES TORRENCE HADLY, Berwyn, Pa. Filed Dec. 23, 1931. Serial No. 582,866. 2 Claims. (Cl. 248—41.)



1. A hollow base having sides and having a notch extending inwardly through one side; an upright on the base; said base being adapted to nest a complementary base carrying an upright extending through the notch, the sides of the hollow base engaging the complementary base and centering the latter therein.

1,919,839. PIPE-BENDING MACHINE. FRANZ HILGERS, Rodenkirchen, Germany. Filed Feb. 5, 1931, Serial No. 513,728, and in Germany Mar. 2, 1930. 2 Claims. (Cl. 153—40.)



1. In a pipe bending machine including a table, a bending block pivoted on the table, an extension on the table, a guide for the pipe to be bent, a fixing device movably connected to the said extension, and a carrier for said guide adjustably connected to the fixing device.

1,919,840. KNEE KICKER. ELBA V. HOOBLER, Waterville, Ohio. Filed Dec. 31, 1929. Serial No. 417,783. 1 Claim. (Cl. 45—89.)



A stretching implement of the character described comprising a light metallic head, a facing plate having a solid portion with perforations extending thereinto from the under side, a plurality of prongs or teeth fixed in the perforations, said prongs or teeth comprising pins of equal length and being of approximately uniform diameter throughout a major portion of their length and having a reduced point for engaging and holding a carpet or the like, and a shoulder formed on each tooth or prong at the juncture of the reduced point with the uniform major portion for regulating the extent of penetration into the carpet, the inner ends of the pins abutting the head and being secured in the solid portion with said shoulders equally spaced downwardly from said solid portion.

1,919,841. WIRE MATTRESS. WARWICK WHITSON IMPEY, Mount Eden, Auckland, New Zealand. Filed Aug. 19, 1931, Serial No. 558,153, and in New Zealand Aug. 30, 1930. 2 Claims. (Cl. 5—216.)



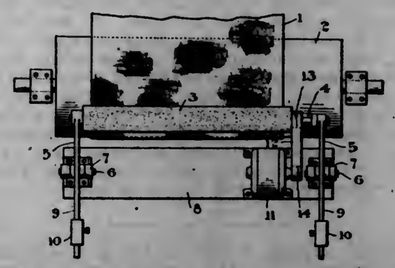
1. A wire mattress, comprising a webbing, a frame for said webbing, a roller rotatably mounted on one end of said frame, to which roller said webbing is attached, a rope secured to and passing around said roller, a plate attached to and extending from the under side of said frame adjacent said roller, and an eyebolt extending through said plate and attached by its eye to the said rope and means on said bolt for moving it transversely of the said plate, thereby tautening said webbing.

1,919,842. PROCESS FOR THE TREATMENT OF GASEOUS MIXTURES CONTAINING HYDROGEN. MARCEL CHARLES JEAN and PASCAL MATILE, Montereau, France, assignors to Societe l'Air Liquide, Societe Anonyme pour l'Etude a l'Exploitation, des Procedes Georges Claude. Filed Mar. 16, 1928, Serial No. 262,324, and in France Mar. 25, 1927. 4 Claims. (Cl. 23—210.)

1. The process which consists in passing a gaseous mixture containing hydrogen, nitrogen oxides and sulphides over reduced iron at a temperature between 0 and 60° C.

CARNEGIE LIBRARY OF ATLANTA

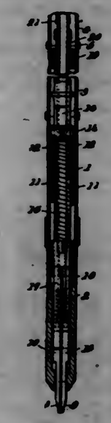
1,919,843. PAPER MACHINE WIRE AND METHOD OF MAKING SAME. CHARLES JOHNSON, Montreal, Quebec, Canada. Filed June 8, 1931. Serial No. 542,995. 4 Claims. (Cl. 140—8.)



1. That improvement in the manufacture of paper making wires which consists in removing material from the outer side of the wire to form an even, flat paper making surface.

4. A paper making wire characterized by the fact that the outer surface of the wire is ground to provide an even, flat paper making surface.

1,919,844. METHOD OF DRILLING WELLS. LELAND PAUL KINNEAR, Beaumont, Tex. Filed Oct. 6, 1931. Serial No. 567,280. 1 Claim. (Cl. 255—1.)



The method of drilling wells consisting in detachably connecting drill bits to a chuck attached to the lower end of pipe sections, which chuck has formed integral therewith portions spaced a less distance than the diameter of the pipe sections above the chuck and contacting with said bits for rotating the same, detaching the drill bits from the pipe sections, cutting away the interior portion of the chuck to substantially the same diameter as the pipe section thereabove for converting said chuck and the pipe section thereabove into a casing for a well and without removing the chuck from the well, and passing a pipe section of smaller dimensions through the first-named pipe section having drilling bits connected thereto and utilizing the last-named pipe section for rotating and feeding the drill bit for continued drilling of the well.

1,919,845. WELL DRILLING APPARATUS. LELAND PAUL KINNEAR, Beaumont, Tex. Filed Oct. 9, 1931. Serial No. 567,941. 11 Claims. (Cl. 255—75.)

1. A drilling apparatus comprising a chuck, drill bits adapted to be inserted through said chuck into position for drilling, means for imparting a bodily lateral shifting movement to said drill bits in opposite directions outwardly of the chuck for seating the same on said chuck, and means for positively imparting a bodily lateral

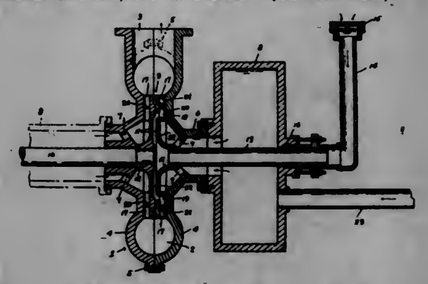


shifting movement of the drill bits in opposite directions inwardly of the chuck for unseating the same for removal from the chuck.

1,919,846. TEMPERING BATH. HORACE C. KNERR, Philadelphia, Pa., assignor to Ajax Electrothermic Corporation, Ajax Park, N. J., a Corporation of New Jersey. Filed July 29, 1929. Serial No. 382,073. 5 Claims. (Cl. 148—15.)

1. A material for use molten in a bath for heat-treating metals comprising barium borate substantially free from carbon dioxide.

1,919,847. CENTRIFUGAL AIR OR GAS INJECTOR. ADOLPH R. KUNZ, Phoenix, Ariz. Filed Apr. 4, 1933. Serial No. 664,438. 3 Claims. (Cl. 230—108.)



1. A centrifugal injector comprising a housing having an annular chamber therein and further having an outlet passage communicating with the chamber, means for supplying a liquid to the housing, an impeller rotatably mounted in the housing, said impeller having radial passages therein, means for supplying a fluid to the passages, said impeller including laterally projecting vanes spaced from each other and defining passages therebetween for the liquid, said vanes having ports therein communicating with the first and second named passages.

1,919,848. DEVICE FOR OPENING BULBS CLOSED BY WELDING AND THEIR APPLICATION TO FIRE EXTINGUISHERS. RUVIN LEVINSON, Paris, France, assignor to Societe Anonyme: Le Mondial, Puteaux, Seine, France. Filed Aug. 10, 1931, Serial No. 556,294, and in France Aug. 12, 1930. 3 Claims. (Cl. 49—52.)

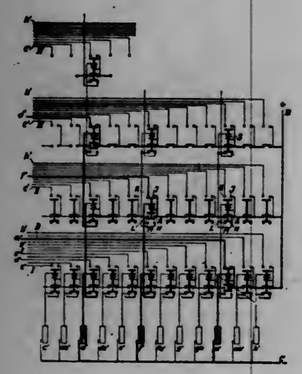
1. In a device for effecting the opening of bulbs made of glass or other material, closed by welding and capable

of containing any products and even of constituting bulbs for fire extinguishers, the combination of a tube fitting as exactly as possible on the bulb neck, a ring also fitted on the bulb neck and the plane of contact of which with



the adjacent edge of the tube, determines the breaking zone of the neck, and a gripping arm rigid with the said ring, adapted to be forced towards said tube to break the bulb neck without risk of injury to the hand of the user.

1,919,849. ORCHESTRAL INSTRUMENT. HANS LUEDTKE, Berlin-Tempelhof, Germany. Filed Dec. 4, 1931, Serial No. 579,085, and in Germany Dec. 16, 1930. 5 Claims. (Cl. 84—171.)



1. An orchestral instrument having a plurality of keyboards each comprising a number of keys, a plurality of sound producing devices capable of being arranged in different groupings, each grouping having a different tone quality, and a system of relays for each key, each relay of which when energized connects the key with a plurality of said groupings, the arrangement being such that when a plurality of keys are depressed simultaneously a different tone quality is produced by each key.

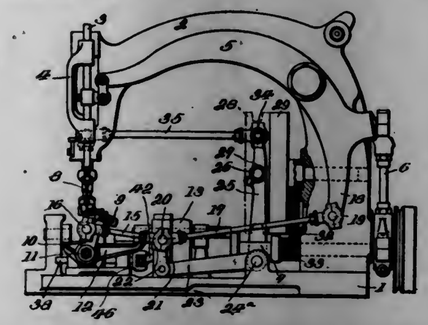
1,919,850. CONCENTRATION OF AQUEOUS FORMIC ACID. EMIL LÜSCHER, Basel, Switzerland, assignor to Firm Lonza Elektrizitatswerke und Chemische Fabriken Aktiengesellschaft, Basel and Gampel, Switzerland. Filed July 15, 1931, Serial No. 551,065, and in Germany July 18, 1930. 5 Claims. (Cl. 260—122.)

1. A process for the concentration of aqueous formic acid, comprising subjecting the aqueous formic acid to direct fractional distillation in presence of such high boiling organic bases that have a higher boiling point than formic acid, are free from any substantial alteration when being treated with formic acid and are capable of forming with formic acid salt like compounds which are unable to decompose on elimination of water, but at higher temperatures are split into their components.

1,919,851. MANUFACTURE OF FORMIC ACID FROM FORMATES. EMIL LÜSCHER, Basel, Switzerland, assignor to Lonza Elektrizitatswerke und Chemische Fabriken Aktiengesellschaft, Gampel and Basel, Switzerland. Filed July 27, 1931, Serial No. 553,481, and in Switzerland Aug. 10, 1930. 5 Claims. (Cl. 260—118.)

1. A process for the manufacture of formic acid from metal formates, consisting in treating a metal formate with diluted nitric acid at a temperature not exceeding about 60° C. in presence of an organic stabilizer of the group consisting of formates, urea and amines, and separating then the resulting formic acid.

1,919,852. ORNAMENTAL STITCH SEWING MACHINE. FRIEDRICH LUTZ, Stuttgart, Germany, assignor to Union Special Maschinenfabrik, G. m. b. H., Stuttgart, Germany. Filed Dec. 4, 1930, Serial No. 500,100, and in Germany Apr. 28, 1930. 9 Claims. (Cl. 112—159.)



1. In a sewing machine, the combination of a supporting bed, an overhanging arm carried thereby, a needle, means for shifting said needle laterally to various reciprocating positions on said overhanging arm, a thread carrying looper cooperating with said needle, means for shifting the oscillating position of the looper to maintain its cooperative relation to the needle, a loop retainer, means for reciprocating said loop retainer in timing with the movements of the looper for positioning the needle thread loop on the looper, and means for varying the reciprocating position of the retainer to maintain its cooperative relation to the looper for the various set oscillating positions of said looper.

1,919,853. WELL PACKER. PATRICK H. MACK, Bradford, Pa., assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 12, 1929. Serial No. 339,291. 6 Claims. (Cl. 166—12.)

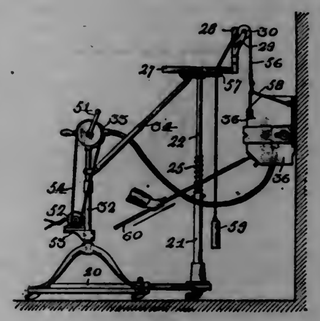
1. A well packer including a hollow body member, a depending hollow sleeve, a coupling for connecting the

sleeve to the body having a tapering slip expanding portion, a slip cage carrying slips cooperating with the said tapering portion mounted on the body, a cap on the body, a spring disposed on the body between the cap and the



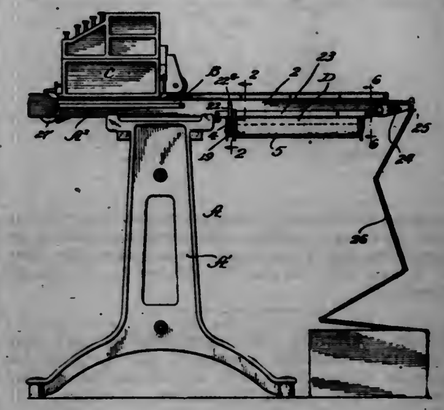
cage for moving the slips on the tapered portion, a packing expanding member carried by the sleeve, and a packing element on the sleeve disposed between the coupling member and the expanding member.

1,919,854. CLEANING APPARATUS. JOSEPH W. J. MASSEAU, St. Johns, Quebec, Canada. Filed June 27, 1932. Serial No. 619,581. 1 Claim. (Cl. 15—50.)



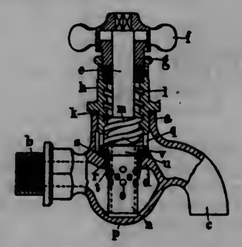
In cleaning apparatus for ceilings, walls and the like, a liquid containing casing open at one end, a rotatable brush mounted in the casing adjacent one wall of the casing and the bristles of said brush projecting outwardly beyond the plane of the casing opening, bristles disposed at the edge of the casing about the opening for liquid sealing purposes, a strip of absorbent material removably secured to the edge portion of the opening immediately adjacent the brush, to absorb and return to the casing liquid spattered by the brush, a vertically adjustable support standard, a platform on the upper end of the standard for supporting the container thereon for ceiling cleaning purposes, means on the platform for removably securing the casing thereon, means associated with the platform and casing for supporting the casing in platform-detached position for wall cleaning purposes, and flexible shaft means connecting the rotary brush to a motive power source attached to the standard.

1,919,855. CARBON SUPPLY DEVICE FOR DUPLICATING MACHINES. LOUIS J. MILLER, Chicago, Ill., assignor to United Autographic Register Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 9, 1930. Serial No. 487,587. 8 Claims. (Cl. 197—128.)



1. In combination: a main frame having a bed equipped with a plate-like platen and rearwardly extending arms; guide-rods supported by and spaced from said arms to provide passages for carbon-strips; and a carbon-supply device mounted on said guide-rods comprising an auxiliary frame, spaced turn-plates supported by said auxiliary frame, and carbon-rolls suspended from said auxiliary frame.

1,919,856. VALVE AND COCK. JAMES AUGUST MCGEORGE, London, England. Filed July 18, 1930, Serial No. 468,968, and in Great Britain July 24, 1929. 2 Claims. (Cl. 251—80.)

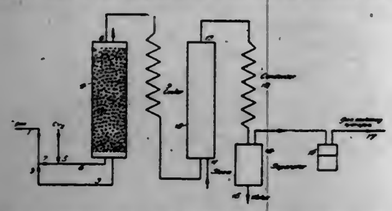


1. In a valve for fluids comprising a hollow body having an inflow and an outflow passage and formed with an internal shoulder between said passages, a compressible sleeve supported on said shoulder, a manually controlled perforated hollow piston having a closed end reciprocable in said sleeve, a coned portion on said closed end of the piston, said coned portion being arranged to exert a wedging action on the compressible sleeve to form a seal when the piston is in one of its positions.

1,919,857. DESTRUCTIVE HYDROGENATION OF COALS, TARS, MINERAL OILS, AND THE LIKE. MATHIAS PIER, Heidelberg, and KARL WINKLER, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J., a Corporation of Delaware. Filed Oct. 6, 1927, Serial No. 224,519, and in Germany Oct. 14, 1926. 7 Claims. (Cl. 196—53.)

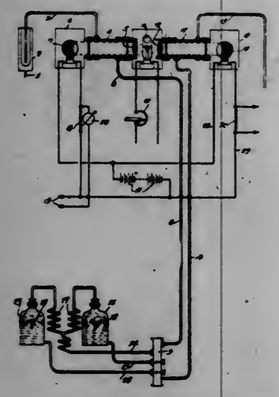
1. In the destructive hydrogenation of carbonaceous substances such as solid and liquid fuel, distillation and extraction products thereof, into valuable liquid and other

hydrocarbons and derivatives thereof by treatment with a gas containing hydrogen, the step which comprises subjecting waste gas issuing from the said hydrogenation and containing gaseous hydrocarbons to decomposition by interaction with a gas essentially containing carbon dioxide



in such an amount that the gaseous hydrocarbons are converted mainly into hydrogen and carbon monoxide by reaction with said carbon dioxide at a temperature above 900° C. and using the gas thus obtained in the said hydrogenation.

1,919,858. METHOD OF DETERMINING AND RECORDING OXYGEN CONTENT OF LIQUID OR GASES. CLARK PETTINGILL, Seal Beach, Calif. Filed July 21, 1931. Serial No. 552,284. 3 Claims. (Cl. 23—230.)



1. A non-titration process of quantitatively analyzing water for dissolved oxygen consisting of adding alkaline pyrogallol or related substances to the water to form colored or turbid substances, and then directly measuring the color or radiation absorption.

1,919,859. DISPENSING CAP. NATHAN C. PHILLIPS, Gloucester, Mass., assignor to Russia Cement Company, Gloucester, Mass. Filed Aug. 26, 1931. Serial No. 559,557. 2 Claims. (Cl. 91—67.5.)



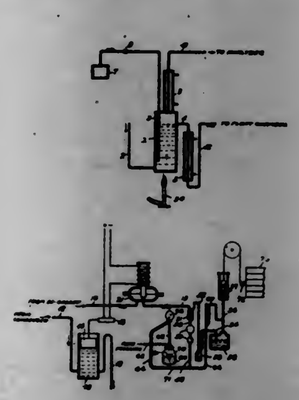
1. A rubber cap for dispensing mucilage or the like, comprising a portion adapted to surround and engage the neck of a bottle, a cyclindrical portion of thin rubber communicating with said neck engaging portion but of substantially less diameter, said cylindrical portion including one relatively long vertical wall and a diametrically opposite and relatively short vertical wall, and a flat, inclined wall connecting the upper ends of the long and short walls of the cylindrical portion and closing the outer end thereof, said inclined wall provided with a slit.

1,919,860. HOSE COUPLING. FREDERICK REUTTER and JOHN H. GOSS, Waterbury, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed June 17, 1932. Serial No. 617,784. 2 Claims. (Cl. 285—77.)



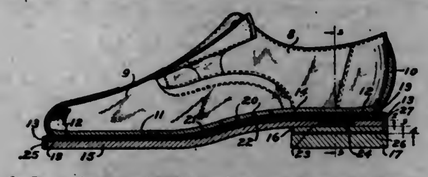
2. In a clincher hose coupling, a tubular member for partial insertion into the end of a hose, a hose clinching member rigidly secured to said tubular member and having a series of inturned prongs for pressing into the outer surface of said hose, and means secured to the ends of said prongs for providing a smooth non-cutting engagement with said hose.

1,919,861. APPARATUS FOR ANALYZING THE GASEOUS CONTENT IN LIQUIDS. OLOF RODHE, Rahlstedt, Hamburg, Germany, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Filed Mar. 26, 1932, Serial No. 601,421, and in Germany Mar. 3, 1931. 2 Claims. (Cl. 23—255.)



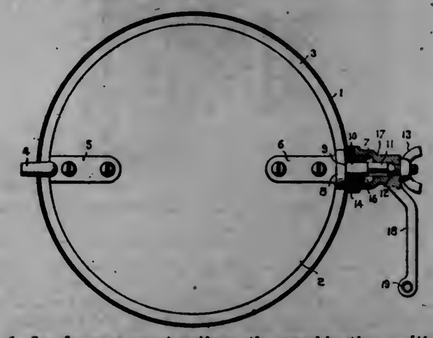
1. Apparatus for determining the gas content of a liquid, comprising a de-gassing tank having an inlet and an outlet for the liquid, means for heating the liquid to be de-gassed in said tank, intermittently operating gas analyzing apparatus adapted to draw in a measured quantity of gas at each operation, a gas conduit connecting said analyzing apparatus with said de-gassing tank, means for introducing a neutral scavenging gas into said de-gassing tank at a definite pressure, volumetric liquid measuring means operated by the liquid flowing through said de-gassing tank, and means operated by said liquid measuring means for starting a flow of gas to be analyzed from said de-gassing tank, through said conduit, into said analyzing apparatus.

1,919,862. SHOE. CHESTER F. ROHN, Whitefish Bay, and FRANKLYN A. ROHN, Milwaukee, Wis. Filed Jan. 18, 1933. Serial No. 652,306. 9 Claims. (Cl. 36—17.)



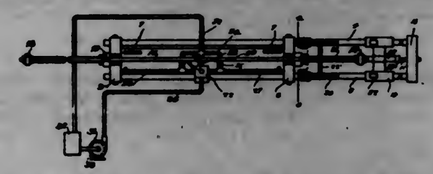
3. In a shoe, an insole having a cushion pad associated therewith, an outsole having a cushion pad associated therewith, and a taut flexible drum interposed between said pads.

1,919,863. DAMPER. HEYMAN ROSENBERG, New York, N. Y. Filed Aug. 20, 1931. Serial No. 558,411. 4 Claims. (Cl. 126—295.)



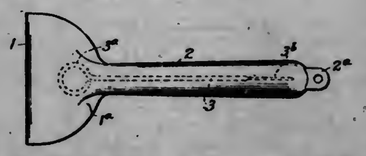
1. In damper construction, the combination, with a damper plate and damper rod adapted to outstand through the wall of a flue, of a sleeve slidingly and non-rotatingly engaging the rod, a nut threaded onto the rod beyond the sleeve for effecting a relatively clamping action between the sleeve and damper plate, and an annulus surrounding the rod and providing a bearing therefor, directly engaging the rod, the annulus also providing a seat for the end of the sleeve.

1,919,864. DOOR OPERATING MEANS. KENNETH SALMEN and EDWIN A. PEARSON, Scribner, Nebr. Filed May 9, 1932. Serial No. 610,184. 4 Claims. (Cl. 121—44.)



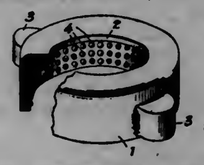
1. A device of the class described comprising a cylinder, a piston therein, a rod connected with the piston, a cross head connected to one end of the rod, operating means connected with the cross head, a valve casing, pipes connecting the same with the ends of the cylinder, a supply pipe connected with said casing, said casing having an exhaust, a valve member in the casing for connecting either one of the cylinder pipes with the supply pipe and at the same time connecting the other cylinder pipe with the exhaust port, means connected with the piston rod for setting the valve member for a reverse movement of the piston at the completion of the piston stroke, and a by-pass at each end of the cylinder and bridged by the piston when the same nears the end of its stroke for permitting the fluid on the pressure side of the piston to flow through the opposite side and thus pass to discharge and resilient means in the ends of the cylinder for moving the pistons back of the by-pass when the pressure in the cylinder is reduced.

1,919,865. DISH SCRAPER. CLIFFORD A. SCHACHT, Huntington, Ind. Filed Aug. 27, 1932. Serial No. 630,728. 4 Claims. (Cl. 15—245.)



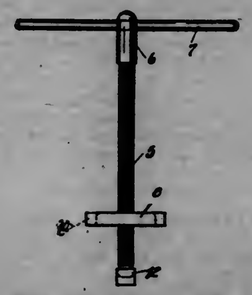
1. A scraper, comprising a rubber blade, and an integral handle; and a reinforcing non-flexible member of circular cross-section in the handle and having a portion of greater width than the diameter of the member extending into the blade.

1,919,866. FRUIT JAR OPENER. CLIFFORD A. SCHACHT, Huntington, Ind. Filed Feb. 8, 1933. Serial No. 655,809. 1 Claim. (Cl. 81—3.1.)



A fruit jar opener comprising an inverted cup-shaped member of flexible resilient material adapted to conform snugly with the exterior of a jar top, said opener having a central opening in its top, and a plurality of integral projections of substantially conical form on the inner side walls of said member for engagement with the cap of the fruit jar, said projections being adapted to yieldably conform with the exterior of the cap.

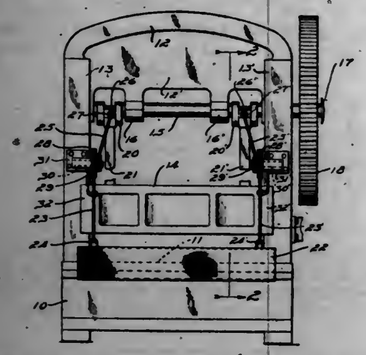
1,919,867. DEVICE AND METHOD FOR TIGHTENING WIRE. JOHN E. SCHEUERLEIN, Bay City, Mich. Filed Jan. 23, 1933. Serial No. 653,039. 6 Claims. (Cl. 140—2.)



1. A wire tightening tool of the class described and comprising a threaded screw rod provided with a handle on the one end thereof, a grooved swivel member secured to the opposite end, and an offset yoke member adjustably mounted on said screw rod and provided with rounded grooves in the ends thereof.

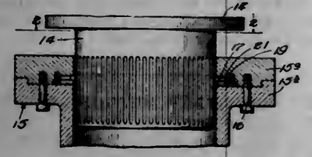
4. The method of tightening a wire which consists in attaching both ends of a separate strand of wire to the main strand at spaced apart points intermediate its length, forcing the intermediate section outwardly from the main strand to pull the end sections of the main strand towards each other, and then securing the taut sections securely together.

1,919,868. SAFETY CURTAIN FOR PRESSES. ROBERT A. SHAW, Detroit, Mich. Filed June 23, 1930. Serial No. 463,389. 4 Claims. (Cl. 74—105.)



2. The combination with a hand-fed power-driven machine of the press type including, in combination, a work receiving table and a ram reciprocable toward and away therefrom, of a guard for said machine, cables supporting said guard, sheaves about which said cables are secured, additional sheaves secured to said first said sheaves and actuated by cables in accordance with the movement of said ram, and guides for said cables for retaining said guards in predetermined position and permit said guards to be freely swingable away from said table and ram.

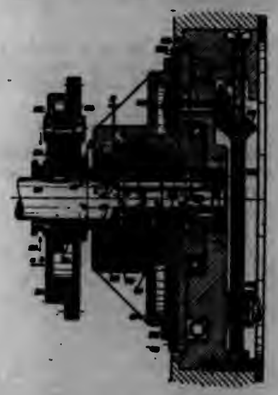
1,919,869. CORRUGATING APPARATUS. JACQUES STANITZ and GEORGE D. BOYER, Warren, Ohio, assignors to The Youngstown Pressed Steel Company, Warren, Ohio, a Corporation of Ohio. Filed Apr. 22, 1932. Serial No. 606,971. 2 Claims. (Cl. 153—70.)



1. Apparatus for fluting a closed-bottom sheet metal tub or the like, comprising a female die provided with a series of inwardly protruding rotatable spherical members; and a male die in the form of a plunger adapted to engage the bottom and side wall of a tub and thrust the same into the female die, said male die having a series of grooves adapted to register with the rotatable members in the female die and permit said members to roll portions of the side wall of said tub into the grooves.

1,919,870. TRANSMISSION GEAR. VIKTOR WASSILIEFF and ALEXEI DE WITT, Brunn, Czechoslovakia. Filed July 2, 1931, Serial No. 548,462, and in Germany July 11, 1930. 4 Claims. (Cl. 74—54.)

1. A variable speed gear mechanism, comprising in combination a driving shaft, a driven shaft, a driving disc fixed on said driving shaft, a crank disc rotatable on the driving shaft, springs connected to said driving disc and crank disc for resiliently transmitting rotary motion from the former to the latter, a crank-pin radially adjustable on said crank disc, an adjusting screw spindle for said crank pin on said crank disc, means for turning said screw spindle including a gear wheel fixed on said spindle, a wedge ring encircling the driving shaft and capable of axial displacement, a pair of axially non-displaceable gear members rotatable on the driving shaft and having counterpart wedge surfaces one on each side of said double wedge ring, so as to be capable of being locked alternately by the wedge ring on axial displacement of the latter, a gear wheel rotatable on the crank disc and meshing with said gear members on the driving shaft, said gear wheel operatively connected to the gear wheel on the screw spindle, said crank disc having a central axial screw-threaded opening, displacing means for said double wedge ring axially slidable on the driving shaft and non-rotatable thereon, a screw threaded ring connected to said displacing means and engaging in said screw threaded opening in the crank disc so as to be displaced axially on rela-

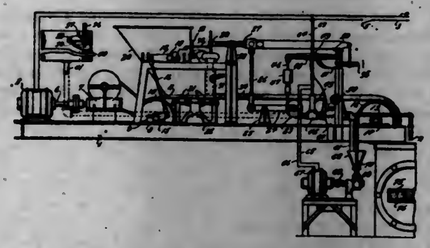


tive rotation occurring between the driving disc and crank disc, a stationary casing having a plurality of pivots thereon spaced round the axis of the driving shaft, slotted rocking levers mounted on said pivots with the slots of the levers in engagement with said crank pin, gear wheels rotatable on the said pivots, one way clutches connected to said slotted levers and gear wheels for transmitting rotary motion from the levers to the gear wheels and a gear wheel on the driven shaft and in engagement with the gear wheels on the said pivots.

1,919,871. PROCESS OF RESOLVING EMULSIONS. TRUMAN B. WAYNE, Houston, Tex. Filed May 31, 1932. Serial No. 614,618. 19 Claims. (Cl. 196—4.)

14. The process of resolving water-in-oil emulsions which comprises adding thereto a treating agent comprising a complex condensation product of a phenolic body, a polyhydric alcohol, an aldehyde, a fatty acid having more than eight carbon atoms, a nuclear-substituted aromatic sulfonic acid, and an alkylamine containing a hydroxylated aliphatic group.

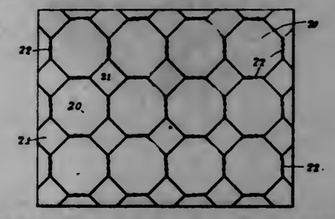
1,919,872. TEMPERING. GEORGE C. WEILAND, Pittsburgh, Pa., assignor to Schaffer Poidometer Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 21, 1931. Serial No. 558,471. 1 Claim. (Cl. 259—1.)



Clay handling equipment comprising a hopper, a conveyor to which material to be treated is delivered from the hopper, a receiver for the material from the conveyor,

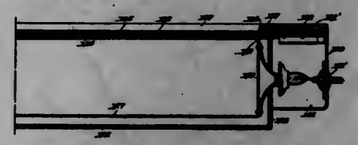
a gate at the hopper regulating the material flow from the hopper to the conveyor, a liquid supply line having a valve therein, a movable support for the conveyor intermediate its length having connections to the gate and to the valve whereby both the material flow to the conveyor and the flow of liquid through the valve are regulated by the weight of the material only on the conveyor, and a pump for receiving the liquid flow volume as controlled by the valve for converting such into a pressure stream for force discharge into the material in the receiver.

1,919,873. WIRE GLASS. NED WELKOVITZ and ALEC S. GOLDSTEIN, Chicago, Ill. Filed Dec. 4, 1929. Serial No. 411,549. 3 Claims. (Cl. 245—2.)



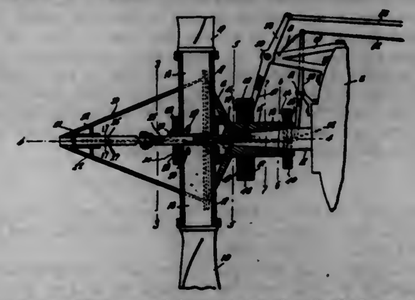
1. A metallic core for wire glass, comprising a mesh, adjacent units of which are regular polygons, said polygons having doubled spaced common sides arranged in parallel lines both vertically and horizontally, said common sides spaced from each other.

1,919,874. SIGNAL MECHANISM FOR HIGHWAY INTERSECTIONS. CHARLES ADLER, Jr., Baltimore, Md. Original application filed July 17, 1931, Serial No. 551,894. Divided and this application filed Feb. 15, 1933. Serial No. 656,920. 19 Claims. (Cl. 177—329.)



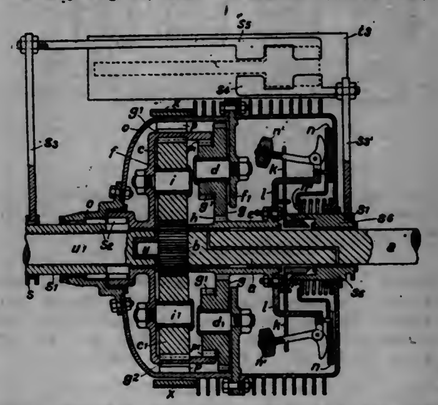
8. A highway element for traffic-actuated signal mechanisms comprising a shell over which traffic passes to produce sound therein, means associated with said shell for rendering it selectively sensitive to the passage of traffic thereover, and a sound actuated element responsive to the sound waves due to traffic set up in said shell.

1,919,875. PROPELLER PITCH REGULATOR. JESS W. BACH, Taft, Calif. Filed Apr. 13, 1932. Serial No. 605,084. 4 Claims. (Cl. 170—163.)



1. A propeller comprising a pair of swivelled propeller blades, a collar on each of the blades, a slide member, a cockpit control, a connection between the control and the slide member, connections between the slide member and the collar, said connections between the slide member and the collar comprising a pair of bars each pivotally connected to one end to a corresponding collar, said slide member being provided with an opening therein through which the free ends of the connecting bars are slidable.

1,919,876. MOTOR GEAR. WALTER BALLENTIN, known as Mielke, and ERICH UHLICH, Berlin-Hirschgarten, Germany. Filed Jan. 21, 1931, Serial No. 510,804, and in Germany Aug. 12, 1930. 14 Claims. (Cl. 74—34.)

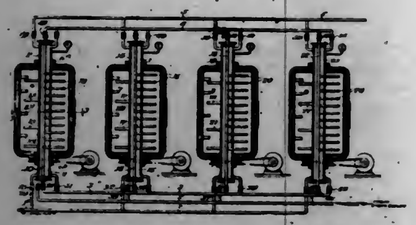


1. Transmission gear for transmitting power from a driving shaft to a driven mechanism, more particularly intended for use in motor vehicles, comprising a driven shaft connecting the driven mechanism with a gear, a lever adapted to control the braking, the idle running and the forward reverse motion of the driven mechanism, a central gear wheel fixed on the driving shaft, a planet wheel carrier adapted to be coupled to the driven shaft and freely rotatable about the axis of the driving shaft, planet wheels journalled upon the planet wheel carrier and in driving engagement with said central gear wheel, centrifugal coupling means in driving connection with said planet wheels, a driving member connected to said driven shaft, said centrifugal coupling means being adapted to be brought into yielding driving engagement with the driving member connected to the driven shaft on rotation of the driving shaft, means connected to said driving member and planet wheel carrier for constraining the latter to rotate in the same direction as the former for applying a unidirectional torque to the driven shaft, with the motion of the planet wheel carrier braked by the yielding centrifugal coupling, so as to vary the transmission ratio between the driving and driven shafts automatically in such a way that at all times the most advantageous transmission ratio between the driving and driven shafts is automatically adjusted, said means for regulating the speed of revolution of the planet wheel carriers consisting of a laminated disc clutch, bearing surfaces rigidly connected with the driven shaft, centrifugal weights acting upon the laminated discs of the clutch and tending to force them into contact with the said bearing surfaces, antagonistic springs tending to counteract the action of the centrifugal weights upon the laminated discs, and means for putting the centrifugal weights out of operation when the gear is to run idly.

1,919,877. PROCESS FOR MANUFACTURING FURFURAL. HAROLD J. BROWNLEE, Cedar Rapids, Iowa, assignor to Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Filed Jan. 26, 1927. Serial No. 163,587. 13 Claims. (Cl. 260—54.)

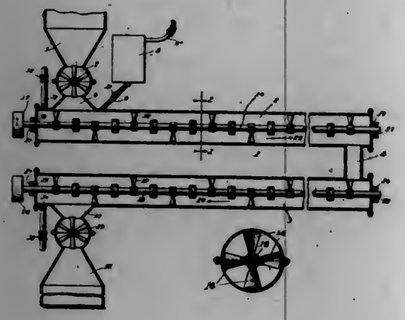
1. The process of manufacturing furfural which comprises treating a plurality of separate furfural-yielding

reaction mixtures the state of reaction of each varying from that of the other, utilizing furfural-laden steam from a reaction mixture in a more advanced stage of reaction



for heating a furfural-yielding reaction mixture in a less advanced stage of reaction, and then removing furfural therefrom.

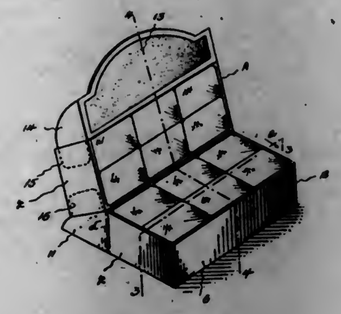
1,919,878. PROCESS FOR MANUFACTURING FURFURAL. HAROLD J. BROWNLEE, Cedar Rapids, Iowa, assignor to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Filed Jan. 16, 1928. Serial No. 246,976. 6 Claims. (Cl. 260—54.)



1. The process for continuously forming and removing furfural from a mass of oat hulls which comprises intermixing said oat hulls with a quantity of a dilute non-volatile acid, maintaining this mixture under substantial superatmospheric pressure while positively and continuously propelling this reaction mixture through a gas tight digester wherein it is subjected to the action of heat for forming the furfural, and removing the furfural from the mass of oat hulls by subjecting the said reaction mixture to a continuous flow of steam through the digester which traverses the same counter to the direction of movement of said reaction material therethrough.

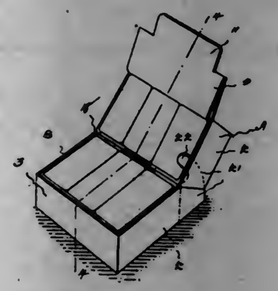
1,919,879. PACKING AND DISPLAY CONTAINER. MORRIS M. EINSON, Yonkers, N. Y., and ARNOLD J. TANNER, North Haven, Conn., assignors to Einson-Freeman Co., Inc., Long Island City, N. Y., a Corporation of New York. Filed Feb. 29, 1932. Serial No. 595,696. 6 Claims. (Cl. 206—44.)

1. A container of the class described comprising a container section having end walls, tongues projecting rearwardly from said walls, a companion section having double walls, said tongues being retentively held between said



double walls, and said tongues operating as a support for one section and connecting means for both sections.

1,919,880. PACKING AND DISPLAY CONTAINER. MORRIS M. EINSON, Yonkers, N. Y., assignor to Einson-Freeman Co., Inc., Long Island City, N. Y., a Corporation of New York. Filed Apr. 30, 1932. Serial No. 608,421. 8 Claims. (Cl. 206—44.)



1. A container for merchandise comprising companion box sections, one section having double side walls, said section being hinged as to fold one over the other in the closed position, means for supporting the top section in an angular or tilted position relatively to the other or base section when in the open position, said means comprising rearwardly projecting tongues carried by said base section and said tongues being engaged between said double side walls of the supported section.

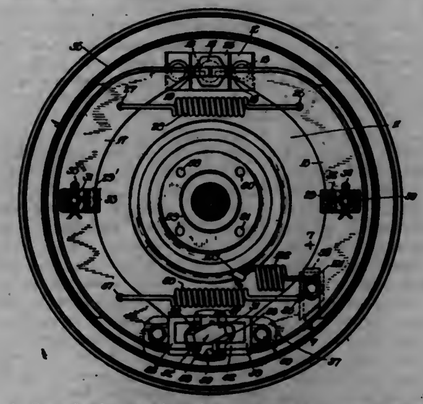
1,919,881. PIPE CUTTER. JAMES T. ELLIS, Sulphur Mine, La. Filed Oct. 9, 1931. Serial No. 567,785. 8 Claims. (Cl. 81—195.)

7. A pipe cutter having a hollow body; an actuator reciprocable in said body and movable by gravity into its active position; an actuator support in said body to yieldably hold said actuator in its inactive position and arranged to be moved by fluid forced into said body to release said actuator; a blade holder pivotally mounted in said body; and a cutting blade carried by said holder above its pivot; said actuator having an inclined portion



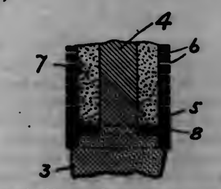
to engage said holder to swing said holder outwardly and downwardly on its pivot to move said blade into its active position.

1,919,882. BRAKE CONSTRUCTION. EDWIN R. EVANS, Chicago, Ill. Filed June 22, 1929. Serial No. 372,833. 12 Claims. (Cl. 188—78.)



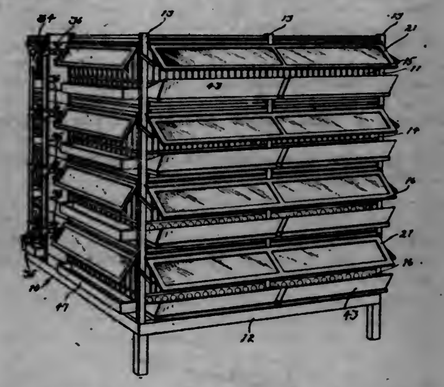
1. In a brake construction, a support, a pivot thereon, a pair of shoes pivoted on the pivot, an operating cam engaging the free ends of the shoes, and a centraliser engaging one of the shoes, said centraliser being slidably adjustable on the support in a plane substantially parallel to that passing through the pivot and operating cam and engaging the shoe substantially in a plane perpendicular to the first mentioned plane and passing through the operating cam and its point of engagement with the shoe.

1,919,883. STOPPERED TUBULAR STORAGE BATTERY ELEMENT. CHARLES D. GALLOWAY, Wyndmoor, Pa. Filed May 2, 1930. Serial No. 449,129. 2 Claims. (Cl. 136—48.)



1. In a storage battery plate an element comprising a top bar, a bottom bar, a spine connecting said bars, a slotted tubular element surrounding said spine and spaced therefrom, active material in the space between the spine and the tubular element, and a non-metallic plug between the active material and a portion of the bottom bar, which portion is contained within and closes the tubular element.

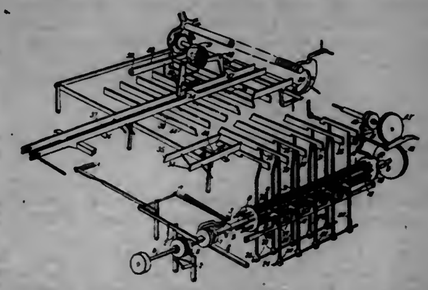
1,919,884. BROODER. VERNON C. GETZ, Hazleton, Pa. Filed May 29, 1931. Serial No. 541,002. 5 Claims. (Cl. 119—34.)



1. A brooder comprising a grill body, a pair of heat deflectors mounted within said grill body, heating elements beneath said deflectors, a pair of floor sections slidably mounted in said grill body and movable through opposite sides thereof, and partition walls carried by the inner ends of said floor sections and movable beneath said heat deflectors for dividing the interior of said grill body into two separate compartments.

4. In a brooder, a grill body, a floor slidably mounted in said grill body through a side thereof, the outer end of said floor extending beyond the side of said body when fully inserted thereinto, a seat provided on the outer end of said floor, and a feed pan seated upon said seat.

1,919,885. PRINTING TELEGRAPH RECEIVING APPARATUS HAVING CASE GROUPING OF CHARACTERS. RONALD GEORGE GRIFFITH, Croydon, England, assignor to Creed and Company, Limited, Croydon, England. Filed Feb. 29, 1932, Serial No. 595,852, and in Great Britain Nov. 27, 1931. 6 Claims. (Cl. 178—33.)



1. A printing telegraph receiving apparatus comprising a series of permutation members operable in accordance with the permutation elements of a signal combination, two case groups, a first case shift mechanism operable in response to particular settings of said series of permutation members for controlling selection in one or another of two case groups, each group having two selectable characters or operations for each selection effected therein by said permutation members, and a second case shift

mechanism operable in response to further particular case signals controlled through said series of permutation members for effecting selection from one or the other of each two selectable characters or operations.

1,919,886. PROCESS FOR ADDING HYDROGEN HALIDE TO ACETYLENE. WILLY O. HERRMANN and ERICH BAUM, Munich, Germany, assignors to Consortium fur Elektrochemische Industrie, G. m. b. H., Munich, Germany. Filed Nov. 4, 1929, Serial No. 404,862, and in Germany Nov. 19, 1928. 10 Claims. (Cl. 260—166.)

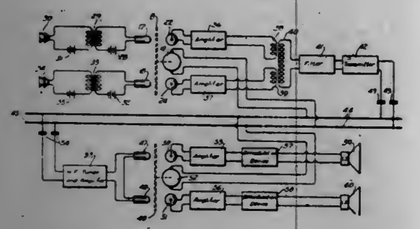
1. Process for adding a hydrogen halide to acetylene comprising passing at atmospheric pressure a mixture of acetylene and a hydrogen halide over a metal halide catalyst of the second group of the periodic system up to and including an atomic weight of 137.4 and of the fifth group of the periodic system at a temperature between 120 to 300° C., using as a carrier for the catalyst substances of high surface action.

1,919,887. ROUGE APPLICATOR. GEORGE A. GLEESON, Chicago, Ill. Filed Dec. 15, 1932. Serial No. 647,323. 9 Claims. (Cl. 132—79.)



9. An applicator of the class described comprising a penciliform body having a storage chamber in its interior, a conoidal applicator tip on one end of said body, said tip terminating in a blunt flattened bladelike nozzle, a feed aperture running from said nozzle to said chamber, and means for feeding the contents to said nozzle.

1,919,888. MULTIPLE SIGNALING SYSTEM. CLINTON WALLACE HOUGH, New York, N. Y., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 27, 1930. Serial No. 505,055. 3 Claims. (Cl. 179—2.5.)

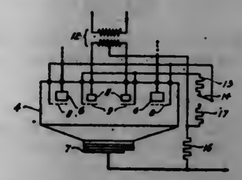


1. A multiple signaling system comprising, a plurality of sources of modulating current, a group of different sources of irradiations each of which is composed of a plurality of sources one of which is under control of one of said sources of modulating current, photosensitive means, means for sequentially exposing said photosensitive means to said group of plural sources of irradiations at super-audible frequencies, other means for producing irradiations under control of said photosensitive means, a plurality of photosensitive devices all of which are commonly under control of said last mentioned irradiations, means for sequentially exposing said last mentioned photosensitive devices to said irradiations, and a plurality of translating devices each of which is under control of one of said last mentioned photosensitive devices.

1,919,889. MANUFACTURE OF IMIDES OF DICARBOXYLIC ACIDS. ALPHONS O. JAEGER, Mount Lebanon, and LLOYD C. DANIELS and HERBERT J. WEST, Crafton, Pa., assignors to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Dec. 31, 1929. Serial No. 417,817. 12 Claims. (Cl. 260—124.)

1. A method of producing imides from peri dicarboxylic acids, which comprises subjecting a water dispersion of an alkali metal salt of the dicarboxylic acid to reaction with a salt of a base of the group consisting of ammonia, primary amines.

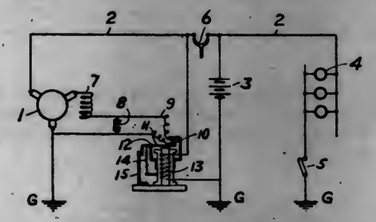
1,919,890. CONTROL SYSTEM FOR ELECTRIC CURRENT RECTIFIERS. ERWIN KERN, Wettingen, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a Joint-Stock Company of Switzerland. Filed Aug. 19, 1930, Serial No. 476,338, and in Germany Aug. 28, 1929. 8 Claims. (Cl. 175—363.)



1. In an electric current rectifier control system, an electric current rectifier comprising a tank, a cathode within said tank, anodes extending into said tank, control grids arranged adjacent said anodes, and means arranged in the path of an arc other than the arc flowing from said anodes to said cathode operative to supply a potential to said grids for controlling the rectifying action,

8. In a control system for electric current rectifiers, in combination, a main electric current rectifier of the metallic vapor arcing type having a cathode and a plurality of anodes constituting electrodes for the flow of arcs therebetween, grids arranged adjacent said anodes for controlling said arcs, an auxiliary electric current rectifier comprising a cathode and a plurality of anodes supported within an electrically conductive casing in insulated relation therewith, the last said cathode and anodes constituting electrodes for the flow of arcs therebetween operable to impress on said casing potentials positive with respect to the potential of the first said cathode, and means for connecting said casing with the first said grids to impress said potentials thereon.

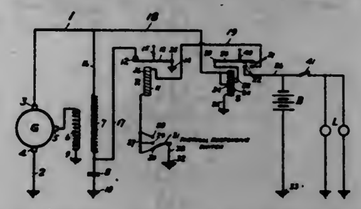
1,919,891. CHARGING CIRCUIT FOR STORAGE BATTERIES. WILLIAM C. LEINGANG, Detroit, Mich. Filed May 28, 1930. Serial No. 456,387. 3 Claims. (Cl. 171—313.)



1. A charging circuit for storage batteries including in electrical connection and combination: an electric generator, a storage battery, a translating device, a field coil for said generator, a resistor in series with said field coil, a relay including a circuit maker and breaker in parallel with said resistor and a coil adapted to actuate said circuit maker and breaker in accordance with the condition of said battery and a spring adapted to stress

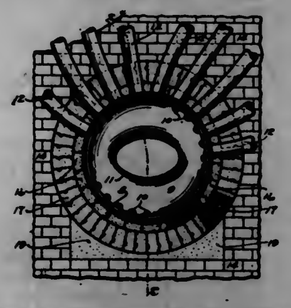
the circuit breaker to close the circuit paralleling said resistor, and a thermostat mounted on said relay independently of said circuit maker and breaker and adapted to apply additional pressure directly and independently of said spring to said circuit maker and breaker in response to reduction of temperature.

1,919,892. MEANS FOR CONTROL OF THE CHARGE OF A STORAGE BATTERY. WILLIAM C. LEINGANG, Detroit, Mich. Filed Oct. 3, 1932. Serial No. 635,890. 2 Claims. (Cl. 171—313.)



1. In combination, a generator of the third brush type provided with a normal field winding connected to the third brush and an auxiliary field winding adapted for connection across the main brushes, a storage battery connected across the main brushes of the generator, a voltage responsive relay connected across the battery and adapted to open the circuit of the auxiliary field winding at a predetermined battery voltage, and a thermal responsive means adapted to control the value of the voltage at which the relay operates.

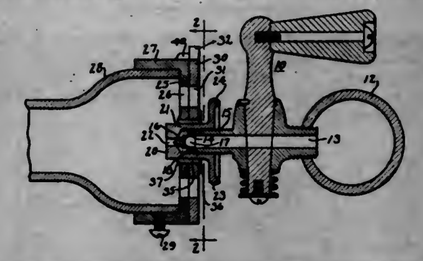
1,919,893. DRUM MOUNTING FOR BOILERS. MICHAEL LIPTAK, St. Paul, Minn. Filed Aug. 25, 1930. Serial No. 477,785. 9 Claims. (Cl. 110—97.)



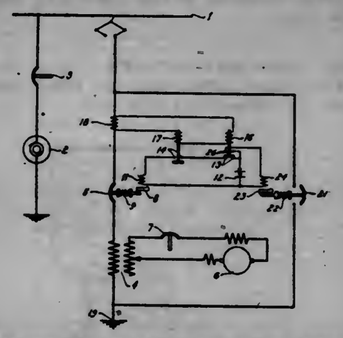
1. A drum mounting adapted for application around the end of a drum and for application within a furnace wall, comprising a layer of highly refractory pliable inner blocks for application in ring formation around the drum, and an outer layer of rigid refractory blocks arranged for application in ring formation concentrically around said inner blocks, said inner and outer blocks having interlocking surfaces extended circumferentially of the rings and permitting said blocks to be laid with lapped joints.

1,919,894. GAS REGULATOR. GEORGE W. LORIMER, Troy, Ohio, assignor, by mesne assignments, to Black Products Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 20, 1929. Serial No. 393,989. 8 Claims. (Cl. 158—118.)

1. In a gas mixing device of the class described, a stop cock provided with an inlet and an outlet passage, a regulating valve in threaded engagement with said outlet passage, said regulating valve comprising a threaded sleeve portion and an outwardly extending disk-like member of a diameter several times larger than the threaded part of said sleeve portion, an air admission valve including a stationary member, a rotatably adjustable member, an aligning hub supported on the sleeve portion of said regulating valve and adapted to hold said stationary and rotatable members in contact, a slot in each of said members, said slots adapted to be brought into registration upon movement of said rotatable member, and means adapted to be operated merely by the fingers for adjusting said rotatable member.

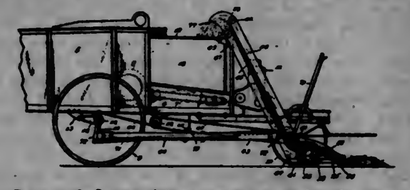


1,919,895. CIRCUIT BREAKER PROTECTIVE SYSTEM. WALTER LUTHI, Ennetbaden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie, Baden, Switzerland, a Joint-Stock Company of Switzerland. Filed June 19, 1931, Serial No. 545,614, and in Germany July 8, 1930. 8 Claims. (Cl. 175—294.)



1. In a protective system, a supply line, apparatus to be supplied, a circuit breaker to connect said apparatus with said line, means to cause disconnection of said apparatus by said circuit breaker upon the occurrence thereon of overloads suitable for interruption thereby, and means to ground said supply line and said apparatus upon the occurrence of overloads thereon unsuitable for interruption by said circuit breaker.

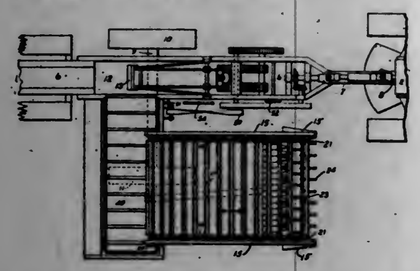
1,919,896. COMBINATION THRESHER AND WINDROW PICK-UP. WALLACE F. MACGREGOR, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a Corporation. Filed Feb. 27, 1926, Serial No. 91,049. Renewed Mar. 27, 1933. 8 Claims. (Cl. 56—364.)



1. In a windrow pick-up, means at its forward side for removing cut grain from the soil, a revolving drum positioned rearwardly of and cooperating with said

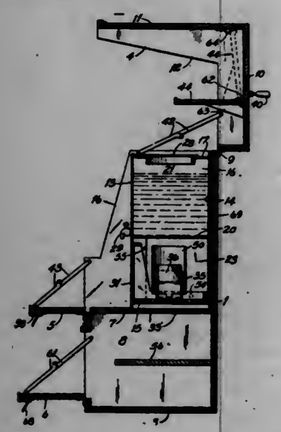
means, fingers in the drum adapted to project and recede in relation thereto for propelling the cut grain, and means for receiving said grain from the fingers and discharging the same from the pick-up.

1,919,897. BALING MACHINERY. WALLACE F. MACGREGOR and MARTIN A. RICHARDSON, Racine, Wis., assignors to J. I. Case Company, Racine, Wis., a Corporation. Filed Apr. 23, 1932. Serial No. 607,024. 19 Claims. (Cl. 56—364.)



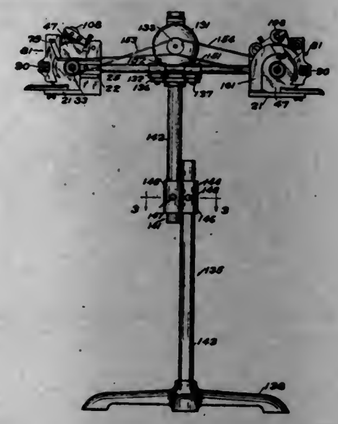
1. In a pick-up for balers, means pivotally connected to the pick-up for supporting it and whereby it may be adjusted vertically, and other means for supporting the pick-up and pivotally connected thereto, the pivotal mountings of said connecting means and said supporting means being coincident whereby the pick-up may be adjusted laterally.

1,919,898. PORTABLE KITCHEN. LEWIS E. MARTIN, St. Louis, Mo. Filed May 27, 1931. Serial No. 540,409. 6 Claims. (Cl. 126—38.)



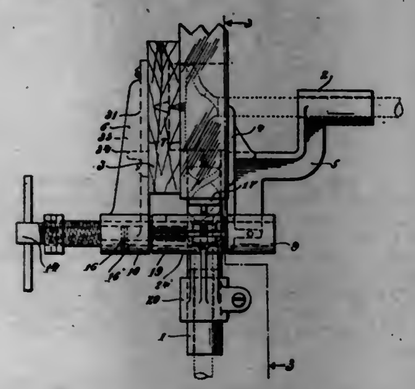
1. A portable kitchen comprising a case containing a heating compartment provided with a heating element, a cooking compartment in the form of a liquid-container having a bottom at the top of said heating compartment, said cooking compartment being provided with a closure at the top and a faucet at the bottom, said case having a wall below all of said parts forming the floor of the kitchen, said wall being provided with openings below said heating element for the admission of air to said heating element, a rear wall at the rear of all of said parts, side wall members at opposite sides of said parts, closure members at the top and front of the case adapted to be opened to expose the interior of the kitchen, a basement below said floor, a closure at the front of said basement, and a hand-receiving device whereby the entire kitchen and basement are carried.

1,919,899. ROTARY CLOTH CUTTING AND SEVERING MACHINE. HENRY A. MEYER and LOUIS JOHN BLOCH, Cincinnati, Ohio, assignors, by direct and mesne assignments, of one-half to The Wolf Machine Company, Cincinnati, Ohio, a Corporation of Ohio, and one-half to Eastman Machine Company, Buffalo, N. Y., a Corporation of New York. Filed Nov. 3, 1930. Serial No. 493,112. 10 Claims. (Cl. 164—60.)



8. In a cutting machine, the combination of an overhanging arm projecting outwardly from its support and having a knife housing at its outer portion, a knife journaled in said housing, said housing being formed with an opening in its outer end in which the edge of the knife is exposed for engaging the work and with a work support extending outwardly beyond said knife, a member arranged in front of said exposed portion of the knife, and means for adjusting said member vertically toward and from said work support.

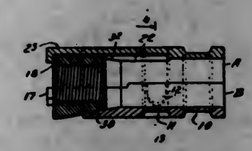
1,919,900. AUGER GUIDE. EDWARD A. MOLLER, Baltimore, Md. Filed Nov. 22, 1930. Serial No. 497,853. 3 Claims. (Cl. 77—62.)



1. An auger guide for boring intersecting holes in a relatively thin flat body as a jamb or door, comprising opposed jaws to engage the opposite lateral surfaces of the work, ways for the jaws, a clamping screw for closing said jaws, an edge auger guide having spaced feet to engage the edge of the work, a carrier for the guide mounted to slide on the ways and having a thread of one half the pitch of the clamping screw, the clamping screw having a secondary thread to engage said thread on the carrier to center the

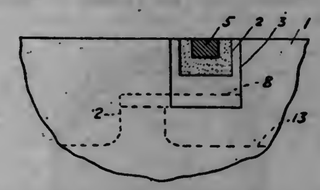
edge guide, the edge auger guide being located substantially in alignment with said clamping screw, and a side auger guide disposed substantially at right angles to said edge auger guide with its axis intersecting the axis of the edge auger guide and mounted on one of said jaws, means for clamping the feet in various positions of adjustment relatively to the ways to vary the position of the side auger guide relatively to the edge of the door.

1,919,901. EXPANSION SHIELD. THOMAS J. NOONAN, Bayonne, N. J., assignor to J. Edward Ogden Company, Inc., East Orange, N. J., a Corporation of New Jersey. Filed Oct. 30, 1931. Serial No. 572,007. 5 Claims. (Cl. 85—24.)



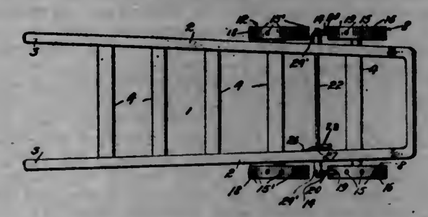
1. A two section, three-way cast metal expansion shield comprising a pair of semi-cylindrical sections, one section only comprising a pair of expansible portions, and an expanding member in said shield having tapered portions arranged to expand the two expansible portions and the other shield section.

1,919,902. INTERCELL CONNECTER. WALLACE E. NYCE, Philadelphia, Pa. Filed Feb. 16, 1929. Serial No. 340,523. 2 Claims. (Cl. 136—134.)



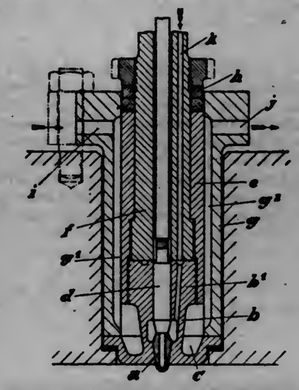
1. In a storage battery the combination of a partition wall having an opening in the upper edge thereof and shouldered notches adjacent to said opening and an intercell connecter having a yoke adapted to be located in said opening but spaced from the walls of said opening and having shoulders adapted to contact with the shoulders on the partition wall so as to form an opening between the yoke and shoulders of the intercell connecter and the upper surface of the partition wall said opening being adapted to contain sealing compound, and sealing compound in said opening.

1,919,903. HAND TRUCK. ARTHUR W. PARSONS, Savannah, Ga. Filed June 4, 1930. Serial No. 459,127. 4 Claims. (Cl. 280—54.)



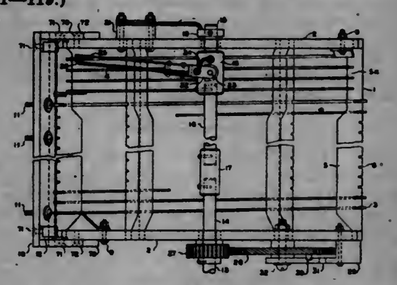
1. A hand truck having two side rails, each side rail having two longitudinally spaced wheels attached thereto, each of said wheels having holes in its outer rim, and locking means consisting of a latch pivoted between said wheels and having an arm adapted to enter said holes in the wheel in front of said latch and another arm adapted to enter said holes in the wheel behind said latch.

1,919,904. FUEL VALVE. GUSTAV PIELSTICK, Augsburg, Germany, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Augsburg, Germany, a Corporation of Germany. Filed Apr. 28, 1931, Serial No. 533,568, and in Germany May 7, 1930. 4 Claims. (Cl. 299—107.4.)



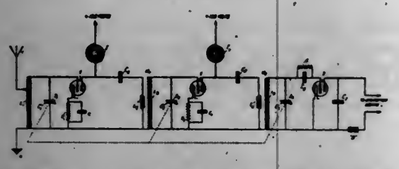
1. A fuel valve comprising an integrally formed nozzle carrying member, an outer casing, said carrying member and outer casing providing a cooling chamber adjacent the nozzle location, a nozzle removably seated within said carrying member, and a needle valve guided in said carrying member and seating against said nozzle.

1,919,905. TUNING COIL. EARL G. PORTS, Woodside, N. Y., and HERMAN P. MILLER, Jr., East Orange, N. J., assignors to International Communications Laboratories, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 27, 1931. Serial No. 518,750. 2 Claims. (Cl. 171—119.)



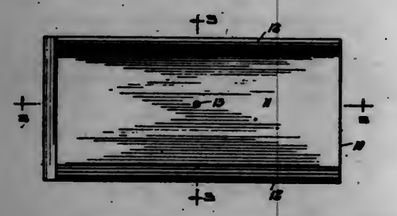
1. A supporting framework for an electrical coil comprising ends connected by longitudinal bars, a spiral conductor having its turns fitting into notches in said bars, some of said turns encircling the bars and the remaining turns being surrounded thereby and disposed in notches on the inner edges of said bars, a central shaft supported in bearings in said ends, a conductor arm pivotally connected to said shaft in contact with said last named turns, means for limiting the rotary movement of said shaft, wherein the shaft comprises metallic extremities connected by an insulating section, the conductor arm comprising blades which engage different portions of the conductor, and the means for limiting the rotary movement of the shaft comprises gears one of which has a projection, and a bracket attached to the framework to serve as a stop for said projection.

1,919,906. STABILIZED RADIORECEIVER. WALTER VAN B. ROBERTS, Princeton, N. J., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Apr. 15, 1929. Serial No. 355,006. 7 Claims. (Cl. 179—171.)



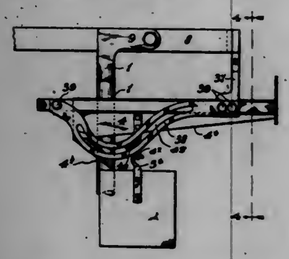
1. A radio receiver comprising signal energy collecting means, a plurality of tuned radio frequency amplification stages, each of said stages including an electron discharge device, a series condenser in the anode circuit of each of said devices, a uni-controlled tuning capacity common to the input circuits of each of said stages, and means including the capacitance between stators of said tuning capacity for producing variable feed back which approaches complete neutralization at the short wave end.

1,919,907. PACKAGE OPENER. CLYDE J. ROBINSON, New York, N. Y. Filed Apr. 21, 1932. Serial No. 606,667. 1 Claim. (Cl. 131—59.)



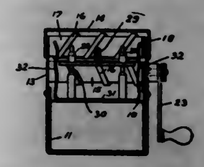
A package opener comprising a body portion, base and upstanding side walls, said body portion having an interior width substantially that of the package, said upstanding side walls forming a channel and extending upwardly substantially the thickness of said package, a threaded hole unsymmetrically positioned in the said base, and a screw having a sharpened projecting end within said threaded hole, whereby adjustment of said screw will permit the sharpened end to project sufficiently to make an incision in the package.

1,919,908. UROLOGICAL TABLE. MAX SCHMIDT and EMIL NEUNACHER, Cincinnati, Ohio, assignors to The Max Wocher & Son Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 12, 1929. Serial No. 377,704. 12 Claims. (Cl. 45—50.)



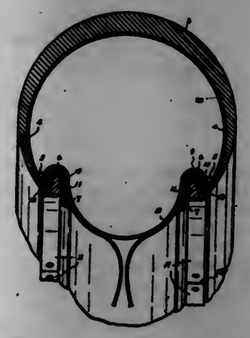
2. In a urological table, the combination of a base, a top pivotally and adjustably supported thereon, a drain support frame hinged to said top, a drain drawer slidably mounted in said frame, a slotted track attached to said frame, a bracket mounted on said base, and a roller on said bracket engaging said slotted track, for the purposes specified.

1,919,909. SHARPENING UNIT. SAMUEL SEGAL, New York, N. Y., assignor to Segal Safety Razor Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 23, 1929. Serial No. 357,421. 5 Claims. (Cl. 51—80.)



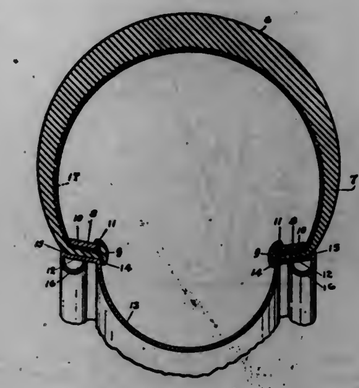
1. In combination, a pair of rollers, means for housing the same to be spaced from each other, further rollers cooperating with said first named rollers to provide two pairs of rollers each to cooperate with one of the cutting edges of a blade to sharpen the same, means for driving said rollers, a resilient element yieldingly engaging the end edges only of a blade disposed between said pairs of rollers and further supporting means separate from said element and cooperating therewith to automatically maintain the blade in operative position.

1,919,910. PNEUMATIC TIRE AND RIM CONSTRUCTION. ALVIN H. SHOEMAKER, Seattle, Wash. Filed Sept. 9, 1930. Serial No. 480,665. 2 Claims. (Cl. 152—20.)



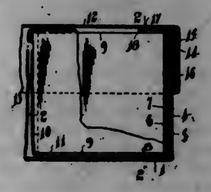
1. In a tire and rim of the class described; a rim of substantially semicircular cross section affording a rim cavity for air, said rim having edges which are laterally curved outwardly and radially curved inwardly to afford grooves which open toward the axis of said rim, a tire having bead portions of pliable and elastic material extending inwardly past the outer sides of said curved rim edges and lying within said grooves, the width of said tire at the edges of said rim being greater than the depth of the air cavity of the tire when the tire is applied to the rim; reinforcing means embedded in said tire, said reinforcing means consisting of radially arranged cords which extend substantially crosswise of the tire from one bead portion to the other thereby forming a transverse binder and leaving the tire free to expand the contract longitudinally, and an expansible locking ring securing each bead portion of said tire within said groove, said tire bead portions each forming a double loop extending over the edge of said grooved rim portion and over said locking ring, the extremities of said tire bead portions lying between said rim and said locking rings.

1,919,911. PNEUMATIC TIRE AND RIM CONSTRUCTION. ALVIN H. SHOEMAKER, Seattle, Wash. Filed Sept. 17, 1930. Serial No. 482,461. 3 Claims. (Cl. 152—20.)



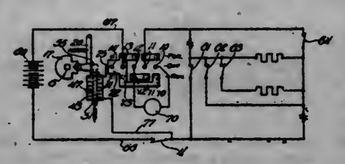
1. In a pneumatic tire and rim construction, a rim having inclined annular flanges extending sidewise therefrom and affording conical surfaces whereon the base of a tire may rest, a tire having its transverse curvature on an arc of approximately one hundred eighty degrees said tire being open around the inner side and having radial cord reinforcing leaving said tire free to stretch and compress longitudinally and having inturned edge portions provided with internal grooves and disposed to seat on said rim flanges, a non-elastic bead ring removably disposed within the grooves in each of said inturned edge portions whereby said inturned edge portions are held between said bead ring and said rim flanges, and a bead portion on the inner edge of each of said inturned edge portions, said bead portions being of greater thickness and bulk than the edge portions whereby they will bind firmly against said rim and will resist being drawn between said bead ring and said rim flanges.

1,919,912. CONTAINER. GAYLORD CLINTON SNELL, Toronto, Ontario, Canada, assignor to Appleford Paper Products Limited, Hamilton, Canada. Filed Dec. 9, 1931, Serial No. 579,897, and in Canada Apr. 10, 1931. 7 Claims. (Cl. 229—34.)



1. A container, comprising a bottom; sides; and ends, one of the sides having flaps at its ends folded in across the ends of the container and the other of the sides having a flap at its upper side folded down into the interior of the box to form a double side, and the ends of the container having flaps at their upper edges folded over the said end flaps of the side, the said end flaps of the side each having an extension flap which extends past the folded-in flap of the end, is bent at an angle thereto and extends between the other side of the container and its folded down flap.

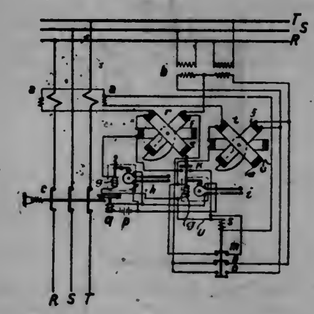
1,919,913. INTERLOCKING SWITCH. LEIGH J. STEPHENSON, Chicago, Ill., assignor to Walker Vehicle Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 18, 1931. Serial No. 516,537. 11 Claims. (Cl. 172—179.)



1. The combination with a power translating device and a power switch and a second switch therefor, of means for preventing said second switch from being moved from a normal open circuit position while the power switch is closed but allowing said second switch to be moved to a normal open circuit position while the power switch is closed.

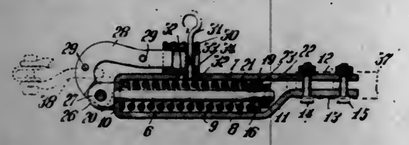
2. A controller comprising, in combination, a power switch, a second switch, having an off position and at all times free for movement to the off position, an interlock for said second switch adapted to lock the second switch in the off position, and operative connections for said interlock including contacts and connections adapted to close an interlock circuit when the second switch is in the off position and the power switch is in a predetermined position.

1,919,914. PROTECTIVE SYSTEM FOR ELECTRIC CIRCUITS. JOSEF STOECKLIN, Zurich, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Jan. 22, 1931, Serial No. 510,567, and in Germany Jan. 23, 1930. 4 Claims. (Cl. 175—294.)



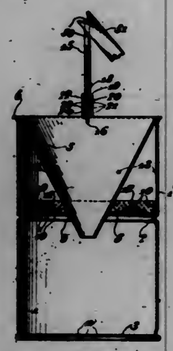
1. In a protective system for electric circuits, a polyphase line, a switch means operable to interrupt said line, a first time-delay ohmmetric relay connected to be responsive to a fault connection in one phase of said line, a second time-delay ohmmetric relay connected to be responsive to a fault connection in another phase of said line, and a control relay having means normally rendering the said second relay inoperative, the said control relay being responsive to the occurrence of a fault connection in the said one and the said another phase of said line to render operative the said second relay upon the occurrence of a fault connection in the said another phase of said line and to connect the voltage responsive element of the said first relay to be responsive to the voltage of the said one phase of said line upon the occurrence of a fault connection therein, and means actuated responsive to the actuation of the said second relay operable to render the said first relay inoperative, the operation of either said first relay or the said second relay being effective to cause circuit interruption actuation of the said switch means.

1,919,915. HITCH DEVICE. CARL G. STRANDLUND, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Oct. 29, 1928. Serial No. 315,679. 3 Claims. (Cl. 280—33.16.)



3. The combination with a releasable hitch device including a frame, spring means carried thereby, and an arm pivotally connected with said spring means, of a holding device adjustably mounted upon the frame and adapted to engage one end of said arm to hold the same in operative position, said holding device comprising a sleeve member to receive the end of the arm and a flat base portion contacting throughout its width with one face of said frame, projections extending from said base portion and engaging another face of said frame to firmly hold said base portion upon said frame, and a wear plate mounted within the sleeve member to sustain the wear occasioned by the end of said arm under the normal force of draft, said arm being movable out of engagement with the holding device by excessive longitudinal movement under an excessive draft force.

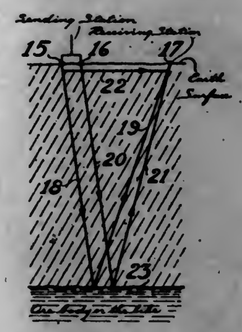
1,919,916. INSECT TRAP. HERBERT K. TAYLOR, Elkins Park, Pa., assignor to George D. Ellis and Sons, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 28, 1927. Serial No. 229,291. 19 Claims. (Cl. 43—107.)



1. In an insect trap, the combination of a container adapted to receive insects which are entrapped, a funnel shaped member which projects into the said container, the said funnel being surrounded by an inclosing wall spaced therefrom, a pan like member having an opening through the central portion of its bottom through which the lower and smaller end portion of the said funnel extends, the edge of said opening being secured to the said funnel whereby the said pan like member is supported upon the said funnel, the said pan like member being provided with perforations, and means whereby air may circulate through the said perforations.

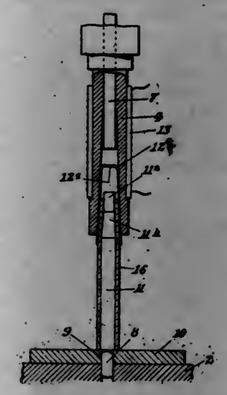
1,919,917. GEOPHYSICAL EXPLORATION METHOD. ORLEY H. TRUMAN, Houston, Tex., assignor to Standard Oil Development Company, a Corporation of Delaware. Original application filed Jan. 22, 1929, Serial No. 334,340. Divided and this application filed Aug. 28, 1931. Serial No. 559,938. 2 Claims. (Cl. 175—182.)

1. In a method of underground exploration by means of impulses passing in the form of direct and reflected waves between sending and receiving stations, the improvement which comprises sending wave impulses from at least two stations differing in distance from each other by substantially one half of the wave length in the upper layer of the earth's surface, whereby the direct waves from the sta-



tions are caused to arrive at the receiving station in opposite phase and cancel each other, and recording the waves reflected from sub-surface ore bodies or the like, such waves arriving in substantially the same phase.

1,919,918. MOLDING AND PRESSING METHOD AND APPARATUS. JOHN N. WHITEHOUSE, New York, N. Y., assignor to Sanite Corporation, Burlington, N. J., a Corporation of New Jersey. Filed July 5, 1929. Serial No. 376,084. 20 Claims. (Cl. 18—34.)

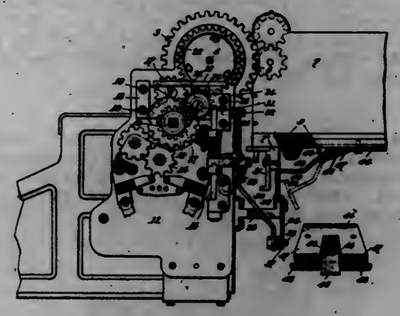


1. A method of molding or pressing a heat-plastic article, comprising heating only a portion of the article to render it plastic, and while plastic, pressing it to desired altered shape by application of a forming thimble, relieving the forming pressure, retaining the thimble on the article until the material thereof has set, and removing the thimble from the article.

1,919,919. ADD-SUBTRACT CONTROL FOR COMPUTING MACHINES. EDWARD C. WALTER, Orange, N. J., assignor to Elliott-Fisher Company, Harrisburg, Pa., a Corporation of Delaware. Filed Dec. 31, 1930. Serial No. 505,822. 3 Claims. (Cl. 235—59.)

1. In a machine of the class described, the combination with a register, of a control frame including opposed plate-like cam and hinge members, respectively, disposed in relatively obtuse angled planes whereby the frame may be suspended by the hinge member to swing about a horizontal

axis into a position to locate the cam member in a vertical plane and the hinge member in a plane inclined from the vertical, and means for suspending the frame to swing

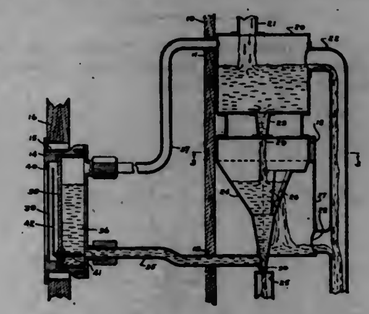


from the bottom of the register and including a spring element bearing against one edge of the hinge member to yieldingly retain said frame in said position.

1,919,920. SOUND RECORD. SAMUEL WHYTE, Redhill, England, assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Jan. 28, 1931, Serial No. 511,927, and in Great Britain Feb. 5, 1930. 5 Claims. (Cl. 154—43.)

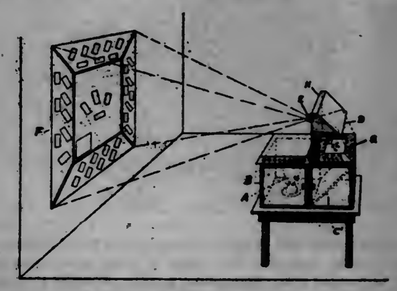
2. A laminated disc sound record comprising a plurality of layers of a cellulose derivative and a plastifier, the internal layer containing filling material in an amount not more than 25% by weight of the material forming said layer and having a greater plastifier content than said inner layers, said other layer being softer and more flexible than said other layer.

1,919,921. CONTINUOUS INDICATING VISCOSITY GAUGE. LOUIS R. ANDERSON, Brooklyn, and HENRY E. PENOILLY, Hollis, N. Y. Filed Apr. 18, 1927. Serial No. 183,284. 9 Claims. (Cl. 265—11.)



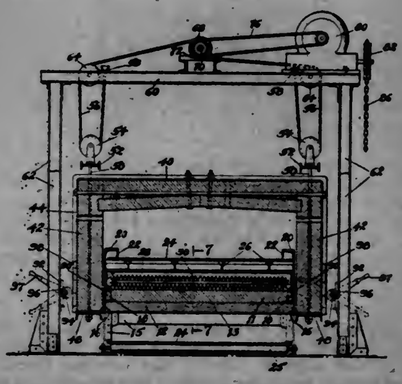
5. A viscosity indicating gauge, comprising a measuring casing having an inlet for lubricant whose viscosity it is desired to determine, there being an opening at the upper portion thereof and an outlet substantially at the bottom of said casing of lesser cross-sectional area than said inlet, whereby an accumulation of the lubricant in the casing will develop in accordance with the viscosity of the lubricant, said casing having an extension affording a level indicating chamber and provided with a transparent portion to permit the level of the lubricant therein to be viewed, temperature responsive means actuated by the temperature of the lubricant and cooperating with the said extension, an indicating dial graduated for temperature and for viscosity indication, said dial being provided with an inclined opening having diverging sides opening upwardly and behind which is located the transparent portion for the extension, and a pointer member for the temperature responsive device, said pointer member being movable before the opening of the dial and adapted to cross the level of the variable liquid column therein.

1,919,922. GAME PROJECTING APPARATUS. FRANKLIN BAKER, Jr., Newton Township, Delaware County, and LODEWYK J. R. HOLST, Brookline, Pa.; said Holst assignor to said Baker. Filed Dec. 19, 1931. Serial No. 582,088. 3 Claims. (Cl. 88—24.)



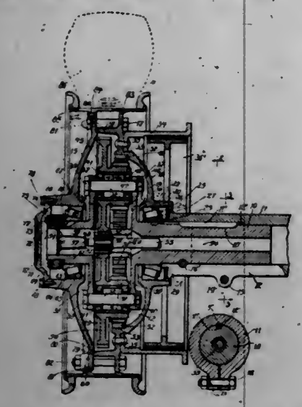
1. A game projecting apparatus comprising a source of light and means for directing a beam from said source upward, a reflector and projection lens arranged to receive the light rays issuing from the source of light and transmit them in an approximately horizontal direction, a screen located approximately in the posterior focal plane of the projection lens and an approximately horizontal transparent game table adapted to support a series of transparent cards used in playing a game, said table being located between the source of light and the projection lens in approximately the anterior focal plane of said lens, in combination with a series of transparent platens adapted to lie flat upon the transparent table above the source of light and each inscribed with indicia indicating the character of a movable object used in playing a game.

1,919,923. LEER. LOUIS BEON, Salem, N. J., assignor to Salem Glass Works, Salem, N. J., a Corporation of New Jersey. Filed Dec. 10, 1931. Serial No. 580,080. 19 Claims. (Cl. 49—47.)



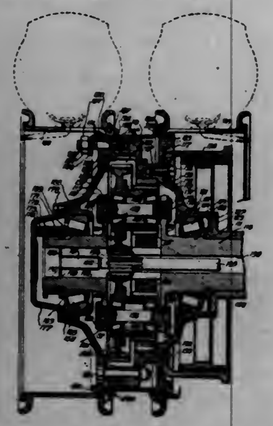
1. A leer including a floor, ceiling and insulating side walls, raising and lowering mechanism for varying the distance of the ceiling from the floor, and means cooperating with the side walls for locking the ceiling in adjusted position.

1,919,924. WHEEL. CARLE J. BLAKESLEE, Chicago, Ill., assignor to Walker Vehicle Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 1, 1930. Serial No. 499,173. 6 Claims. (Cl. 180—75.)



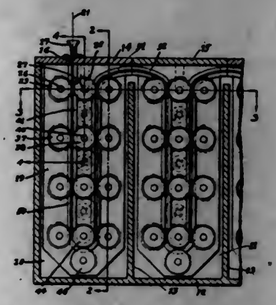
1. In an internal drive axle structure, the combination of a tubular non-rotatable axle, a gear cage connected with said axle and comprising a pair of spaced radially disposed members having sufficient rigidity to sustain circumferential torque reaction with respect to the axle, and being flexible longitudinally of the axle for flexion toward each other, a journal member extending through said spaced members, anti-friction means carried by said journal member, and a gear associated with said anti-friction means, said radially disposed members being adapted to exert axial pressure on said anti-friction means upon drawing up movement imparted to said journal member to take up wear on said anti-friction means.

1,919,925. WHEEL. CARLE J. BLAKESLEE, Chicago, Ill., assignor to Walker Vehicle Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 18, 1931. Serial No. 575,699. 2 Claims. (Cl. 180—75.)



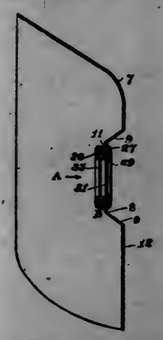
2. In combination, an axle, an axle shaft disposed therein for rotation relative thereto, a wheel comprising a pair of disc members, one of said members having a central dished portion and a radially flanged portion, means securing said disc members together in laterally spaced relation to form a substantially rigid wheel body, a ring gear disposed inwardly of said flanged portion and adjacent the juncture of said dished portion therewith, a gear cage carried by said axle, a pair of interconnected gears journaled for rotation on said gear cage, said interconnected gears including a gear member disposed between said disc members and driven from said axle shaft and said second interconnected gear member being of smaller diameter than said first interconnected gear member and disposed within said dished portion and in mesh with said ring gear, and a brake drum secured to said one disc member adjacent the radially flanged portion thereof and enclosing said dished portion.

1,919,926. DEVELOPING APPARATUS. CASIMIR BODAN, Jackson Heights, N. Y., assignor to Photo Review Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 4, 1927. Serial No. 223,863. 10 Claims. (Cl. 95—90.5.)



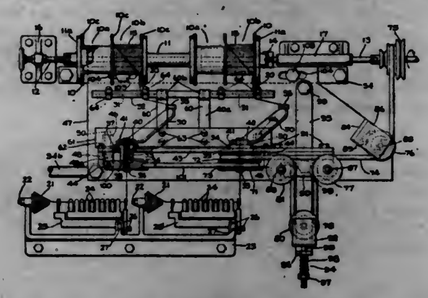
1. Developing apparatus for sensitized material comprising a receptacle having a plurality of compartments therein each adapted to contain a treating solution, a plurality of feed rollers in each of said compartments for advancing a strip of sensitized material therethrough and separate stationary guide means within each compartment forming a guide for directing the strip from the inlet to the outlet of the compartment, said guide means engaging the side margins of said strip to direct the travel of the strip through each of the compartments, the outlet ends of the guide means of one compartment being in alignment with the inlet ends of the guide means of the succeeding compartment.

1,919,927. WELDER'S SHIELD. FREDERICK M. BOWERS, Chester, Pa. Filed Jan. 16, 1930. Serial No. 421,113. 15 Claims. (Cl. 2—8.)



1. A welder's shield having an inwardly extending recess and a hole in the material of said recess providing vertical flanges, a rectangular visor frame composed of inner and outer parts slidably engaging to embrace said vertical flanges, means on the inner side of said shield for releasably securing said parts together, a glass in said frame and rectangular tension means held by said inner and outer parts for securing the same against movement.

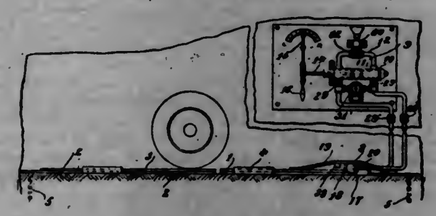
1,919,928. COIL WINDING MACHINE. WILLIAM N. BRIGGS, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Jan. 31, 1931. Serial No. 512,663. 18 Claims. (Cl. 242—10.)



1. In a winding machine, the combination with a winding spool of means for guiding the material to be wound to said spool comprising means for causing the length of material passed to said spool to move through a closed path of motion arranged so that the material is wound crosswise of said spool and means engaging said length only at the end portions of said path of motion so as to delay its motion temporarily at the end portions of said spool.

4. In a winding machine, the combination with a winding spool of means for guiding the material to be wound to said spool comprising means for causing the length of material passed to said spool to move back and forth lengthwise of said spool and means including a shuttle operably associated with said length of material so as to guide said length to the end portions of said spool and to give to the motion of said length a pause at each of said end portions.

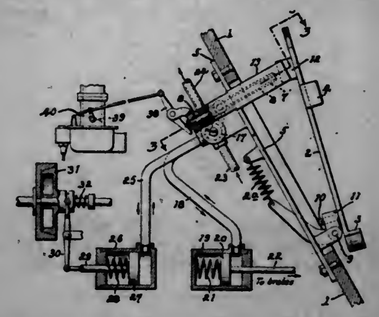
1,919,929. APPARATUS FOR TESTING BRAKES. GRAHAM W. BROGAN, Towson, Md.; S. Duncan Black and The Safe Deposit and Trust Company, Baltimore, Md., executors of said Graham W. Brogan, deceased, assignors to William W. Varney, Baltimore, Md. Filed Jan. 9, 1928. Serial No. 245,415. 6 Claims. (Cl. 265—47.)



3. A vehicle brake testing device consisting of a plurality of surface plates over which the wheels of a vehicle the brakes of which are to be tested are driven, means mutually controlling said plates whereby the relative movement of said plates must be in opposite directions, a fluid cushioning means against which each of said plates cushion respectively, means for conveying fluid to each of said cushioning means from a mutually controlled source, and adjustable means for retarding the flow of said fluid in its operation.

1,919,930. CONTROL MECHANISM FOR MOTOR VEHICLES. ARTHUR L. CASH, Marine City, Mich. Filed July 18, 1932. Serial No. 623,180. 8 Claims. (Cl. 192—.01.)

1. In a device for controlling the operation of the brakes, the clutch and the engine speed control means of a motor vehicle, the combination with a clutch control member, a brake control member and an engine speed



control member, of a single operating member adapted to be moved to operate each of said members independently of the others.

1,919,931. DRILL STEM FOR FLUSH JOINT DRILLING APPARATUS. ROBERT W. CRAIG, Burbank, Calif., assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 8, 1929. Serial No. 398,176. 1 Claim. (Cl. 255—28.)

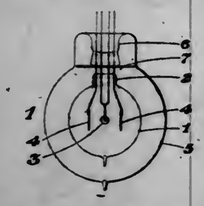


In a rotary well drilling apparatus, a rotary table with a vertical non-circular opening, a casing head below the rotary table, a stuffing box on the casing head spaced below the table, a flush-joint circular drill pipe comprising a tandem series of relatively long lengths and embraced by the stuffing box, and a plurality of materially shorter lengths of drill pipe, the length of each shorter length being about the distance between the table and the stuffing box and each having the same diameter as the drill pipe in combination with a vertically movable drill stem having an upper portion with a cross-section corresponding to that of the said opening and having also a lower circular portion rigid therewith and having the same diameter as the drill pipe lengths, the lengths of the two sections of the drill stem being substantially the same.

1,919,932. GASEOUS ELECTRIC DISCHARGE DEVICE. WILLEM DE GROOT, Eindhoven, Netherlands, assignor to General Electric Company, a Corporation of New York. Filed Jan. 12, 1933, Serial No. 651,384, and in the Netherlands Dec. 28, 1931. 8 Claims. (Cl. 176—122.)

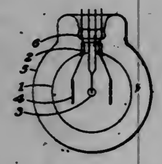
8. An electric lamp comprising an envelope provided with a re-entrant stem, a container inside said envelope,

the envelope and container being substantially spherical, and rigid metal leads fused through said stem and through



the wall of the container, said leads serving to supply current to the lamp container and to hold the container and its envelope in fixed relation to each other.

1,919,933. GASEOUS ELECTRIC DISCHARGE DEVICE. WILLEM DE GROOT, Eindhoven, Netherlands, assignor to General Electric Company, a Corporation of New York. Filed Jan. 12, 1933, Serial No. 651,385, and in the Netherlands Dec. 24, 1931. 4 Claims. (Cl. 176—122.)



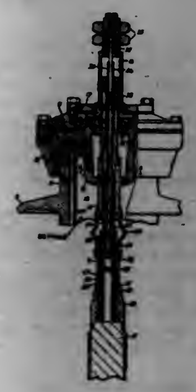
4. A hot cathode gas lamp having a substantially spherical container from 50 to 60 mm. in diameter, and a gaseous filling for said container comprising neon gas under from 1 to 3.5 m. pressure at room temperature in combination with sodium vapor.

1,919,934. CONVEYER SYSTEM. WILLIAM T. DONALDSON, White Bear, Minn., assignor to Standard Conveyor Company, North St. Paul, Minn., a Corporation of Minnesota. Filed May 7, 1932. Serial No. 609,884. 10 Claims. (Cl. 198—156.)



1. The combination with a conveyer having carriers, of a despatching station, a plurality of receiving stations, power-actuated loading mechanism at said despatching station for loading said carriers, an electric control magnet for each of said receiving stations and for said loading mechanism, manually operable switches at said despatching station for selecting the place of delivery, a carrier switch operable upon the approach of a carrier to said despatching station, a loading switch operable by a load on said loading mechanism, an electric circuit including said control magnet for said loading mechanism and said carrier and loading switches, and a timer under control of said manually operable switches for actuating said control magnets for the receiving stations comprising a series of switch elements movable in timed relation to the conveyer and circuits severally including said control magnets and each under control of one of said movable switch elements.

1,919,935. FLUID FILLED HIGH TENSION TERMINAL. EUGENE D. EBY, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Apr. 27, 1932. Serial No. 607,748. 5 Claims. (Cl. 173—358.)



1. An electric terminal comprising a metal base and cap, a chambered insulator located between the two and sealed at its ends thereby, a hollow conductor entering the insulator and supported by the base, a hollow terminal member carried by the conductor having a screw threaded portion and a port, a hollow terminal member carried by the cap, a flexible current carrying connector between the members, a valve seat on the first member through which and the port fluid flows between the conductor and the chamber, a screw threaded valve engaging the threads on the first mentioned member and cooperating with the seat to control the flow of fluid, a divided actuator for the valve having one part extending through the hollow member carried by the cap to the outside thereof, means permitting relative axial movements of the parts of the actuator and preventing relative rotation of said parts, and a body of fluid insulation filling the chamber and conductor.

1,919,936. DISINFECTANT COMPOSITION. MAX ENGELMANN, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed May 19, 1928. Serial No. 279,214. 4 Claims. (Cl. 167—33.)

1. A disinfectant in dust form for the control of seed and plant diseases, comprising a mercury compound of the type R-Hg-I, in which R is a hydrocarbon radical.

1,919,937. MEANS FOR SECURING A METALLIC BRIDGE TO NONMETALLIC LENS RIMS. JOHN FIELDING, North Providence, R. I., assignor of one-half to Joseph P. Whitaker, Apponaug, R. I. Filed Apr. 8, 1931. Serial No. 528,613. 4 Claims. (Cl. 88—44.)

1. In an ophthalmic mounting, a pair of lens rims, a bridge member extending between said rims and in engagement therewith, separate clamping members folded about the ends of said bridge and beneath the edges of said rims to hold the same in assembled relation, and recesses and



integral projections on said members respectively interfitting to maintain said members against relative movement.

1,919,938. MEANS FOR SECURING A METALLIC BRIDGE TO METALLIC LENS RIMS. JOHN FIELDING, North Providence, R. I., assignor of one-half to Joseph P. Whitaker, Apponaug, R. I. Filed Apr. 8, 1931. Serial No. 528,614. 9 Claims. (Cl. 88—44.)

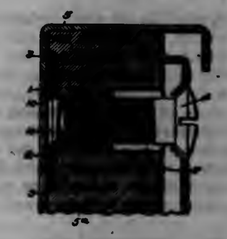


1. In an ophthalmic mounting, a pair of metallic lens rims, a sheet metal sleeve member secured to each of said rims of relatively soft sheet stock, a bridge member of relatively hard resilient stock for connecting said rims and having recesses in its opposite ends and located in said sleeve members said sleeve members being provided with depressions in their outer surfaces and projections on their inner surfaces enter the recesses in the bridge member to maintain said members in assembled relation.

1,919,939. CASTING FREELY OXIDIZABLE METAL. JOHN A. GANN, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed July 7, 1930. Serial No. 466,030. 10 Claims. (Cl. 22—188.)

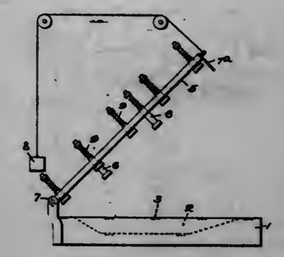
1. A method of treating a non-aqueous liquid bound carbonaceous mold part to eliminate excessive burning of a readily oxidizable metal such as magnesium and its alloys when cast in contact therewith, which comprises incorporating in such mold part at least one of the materials, boric acid, ammonium salt, sulphur.

1,919,940. NUT FOR NUT AND SCREW FASTENED INSTALLATIONS. CHARLES L. HALL, Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed Feb. 6, 1931. Serial No. 513,854. 6 Claims. (Cl. 85—32.)



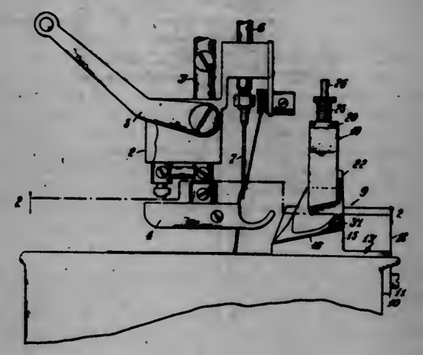
1. A sheet metal nut having a base of double thickness of metal formed by bending opposite edges inwardly toward the center of the base, a semi-circular threaded portion extending from each of said inwardly bent portions of the base and cooperating to provide a bolt receiving portion free of lateral extensions and locking means extending from the base of said nut for locking the nut against rotation when attached to a support.

1,919,941. FASTENER SETTING DEVICE. CHARLES L. HALL, Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed June 29, 1931. Serial No. 547,687. 4 Claims. (Cl. 1—4.)



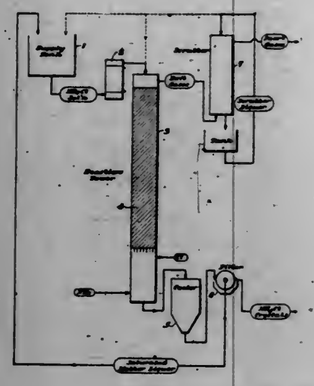
1. A device for setting snap fastener members to the underside of a carpet and like material comprising, in combination, a template having a number of fastener-holding recesses, a fastener setting die supporting frame associated with said template and carrying independently operable dies corresponding with the fastener-holding recesses whereby when a carpet is inserted between the template and the die supporting frame the dies carried thereby may be actuated to set the fasteners to the carpet and means provided partly by the template and partly by the die-supporing frame to maintain proper relation between those parts for proper registry of the dies and fastener-receiving recesses.

1,919,942. FOLDER FOR SEWING MACHINES. PAUL B. HAVEL, Chicago, Ill., assignor to George I. Goldwyn and Herman Goldwyn, Chicago, Ill., Co-partners doing business as Goldwyn Brothers. Filed June 15, 1931. Serial No. 544,870. 8 Claims. (Cl. 112—147.)



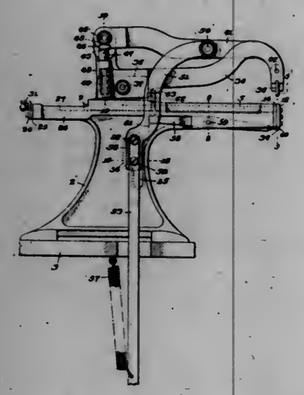
1. In combination with a sewing machine including a base, a presser foot and reciprocating needle bar, a member on said base to the front of the needle bar forming a platform having a downwardly and rearwardly extending top surface, means coacting with one end of said platform in providing an open top groove, and means supported above said groove and coating therewith to complete a rearwardly tapering conical channel, said last mentioned means being mounted for a yielding guided movement toward and away from said groove and including a lip like flange extending laterally therefrom to overhang a part of said platform adjacent said groove.

1,919,943. PROCESS OF MAKING AMMONIUM CHLORIDE. SHELDON B. HEATH and HANS A. REIMERS, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed June 30, 1932. Serial No. 620,204. 5 Claims. (Cl. 23—100.)



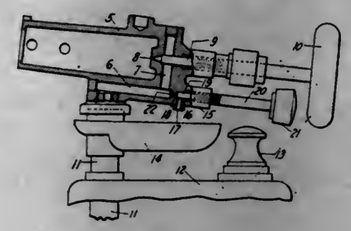
1. The process of making ammonium chloride which comprises reacting ammonia and chlorine in a medium consisting of an aqueous ammonium chloride solution at a temperature between 95° and 115° C.

1,919,944. STAPLE SETTING MACHINE. HARRY E. HICKS, Palmyra, N. J., assignor to Acme Staple Company, Camden, N. J., a Corporation of New Jersey. Filed Nov. 19, 1931. Serial No. 576,074. 17 Claims. (Cl. 1—3.)



7. In a staple setting machine, the combination of a supporting frame, staple guiding means on the frame, a staple clinching anvil, a member carrying said anvil and pivoted to the frame to move the anvil toward and from said guiding means, an arm having one end portion thereof pivoted to said member and the other end portion thereof yieldably supported by said member, a movable operating part pivoted to said arm for operating it and said member to move the anvil toward said guiding means, yieldable means acting upon said part and said member to hold said anvil normally in a position spaced from said guiding means, a staple driver, and means operated by said part for moving the staple driver toward the anvil.

1,919,945. BURNER FOR BLOW TORCHES AND THE LIKE. HORACE M. HUFFMAN, Dayton, Ohio, assignor to The Huffman Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 5, 1931. Serial No. 506,675. 3 Claims. (Cl. 158—83.)



1. In a blow torch, a burner head having a flame 2, a main conduit to connect said flame tube with a source of supply for fuel under pressure, a supplemental conduit having a downwardly directed outlet, and an orifice connecting said supplemental conduit with said main conduit, said orifice being of less capacity than said outlet, a valve to control the flow of fuel through said orifice, a drip cup arranged beneath said outlet to receive fuel therefrom, and a valve to control the delivery of fuel from said main conduit to said flame tube.

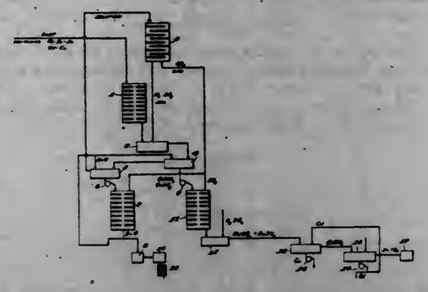
1,919,946. SLIDE FASTENER. GUSTAV JOHNSON, West Roxbury, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed Dec. 8, 1931. Serial No. 579,696. 8 Claims. (Cl. 24—205.)



1. A slider for a multiple operated fastener installation having a body member, a pull-tab secured thereto, said body member provided with spaced top and bottom portions in combination with means providing diverging channels between them for engaging and disengaging fastener elements on the edges of adjacent stringers as they pass through the body member, said body member having two parts pivoted together at adjacent ends and arranged for one part to move away from the other laterally in a plane parallel to the plane of the stringers to permit lateral separational movement of one stringer from the other.

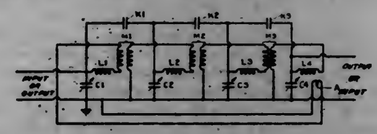
1,919,947. METHOD OF RECOVERING METALS AND METALLIC OXIDES. CHARLES W. JOHNSTON, Portsmouth, Va., assignor to Virginia Smelting Company, Portland, Maine, a Corporation of Maine. Filed May 7, 1929. Serial No. 361,202. 20 Claims. (Cl. 75—18.)

1. A method of treating materials containing zinc and cadmium and/or copper, as their oxides, comprising the steps of leaching the same with an excess of sulfur dioxide in aqueous solution, to dissolve the zinc, cadmium and/or copper, and treating the resulting solution with the oxide of one or more of the metals dissolved therein in



sufficient quantity to neutralize the solution and selectively to precipitate one or more of the metals contained therein, as normal sulfites.

1,919,948. APPARATUS FOR SUPPRESSING INTERFERENCE IN RADIO SELECTOR SYSTEMS. LESTER L. JONES, Oradell, N. J. Filed Mar. 6, 1928. Serial No. 259,454. 10 Claims. (Cl. 178—44.)



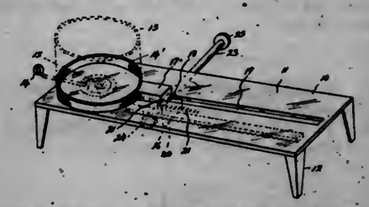
1. A system for selecting electrical oscillations of a given frequency band from oscillations differing therefrom in frequency comprising a chain of circuits coupled in cascade and all tuned alike and resonant to the mean frequency of the oscillations to be selected, and means for suppressing the oscillations of frequencies outside the selected band of frequencies, said means comprising a coupling between non-adjacent circuits of the chain.

1,919,949. ELECTRIC HEATING SYSTEM. LESLIE A. KEMPTON, Trumbull, Conn., assignor to General Electric Company, a Corporation of New York. Filed Sept. 10, 1931. Serial No. 562,120. 5 Claims. (Cl. 200—8.)



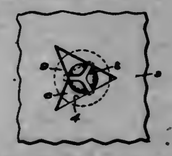
1. An electric switch comprising a unitary base of insulating material with contact blades molded therein, said contact blades spaced 90 degrees apart in four groups having two contact blades in each group spaced radially with the contact blades of one group shorter than the other contact blades, means to connect one contact blade of each group to a load circuit, means to connect the other contact blade of each group to a supply circuit, a rotor of insulating material with an integral depending annular flange having three contacts of U shape secured in recesses in the depending flange with one contact longer than the others to engage the short contact blades of the base, said rotor contacts being located 90 degrees apart, and means to move said rotor to different operative positions whereby the contact blades of different groups are selectively interconnected.

1,919,950. DENTAL WATER HEATER. ROBERT M. KERR, Detroit, Mich., assignor to Detroit Dental Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed June 16, 1930. Serial No. 461,583. 13 Claims. (Cl. 219—43.)



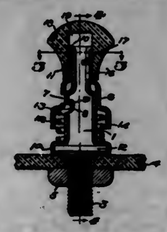
1. In a heating device, the combination with a substantially flat plate, of a heating element disposed beneath a portion of the plate for heating various parts thereof to different temperatures, a container mounted for sliding movement over the plate in a predetermined path toward and from the heating element and adapted to contain the substance to be heated, and graduations spaced along the path of travel of the container for indicating the temperature to which the contents of the container is adapted to be heated when the latter is in engagement with various portions of the plate.

1,919,951. SNAP FASTENER INSTALLATION. ARTHUR W. KIMBELL, Newton Center, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed June 5, 1930. Serial No. 459,314. 4 Claims. (Cl. 45—138.)



1. An upholstery installation comprising, in combination, a fastener-carrying structure including a cardboard part having a substantially triangular-shaped aperture therethrough, a covering material applied to one side of said cardboard part to conceal said aperture, a snap fastener member carried by said fastener-carrying structure and having a base proportioned to overhang and engage the cardboard part adjacent to each side of the aperture therethrough to maintain assembly and being located between the cardboard part and the covering material and a neck of smaller diameter than the aperture extending therethrough for engagement with cooperating fastening means, said aperture being large enough adjacent to at least one side thereby to permit passage of the base of the fastener member for attachment and detachment thereof when held at an angle to the cardboard.

1,919,952. BINDING POST. CARL L. KNUTSON, Maywood, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 28, 1930. Serial No. 498,574. 7 Claims. (Cl. 173—259.)



1. A binding post having a central post part adapted to be fixed to a supporting structure, an outer sleeve part

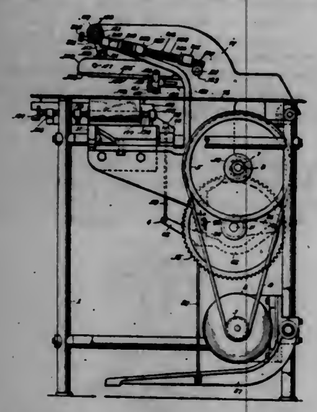
slidable upon said central post part, each of said parts having means adapted to register with each other upon movement of the outer sleeve part to receive a wire, a spring interposed between said parts and a flange on the upper end of said central post part extending over the upper end of said sleeve part to hold said parts and spring in assembled relation.

1,919,953. BINDING POST. CARL L. KNUTSON, Maywood, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a Corporation of Illinois. Filed Mar. 19, 1931. Serial No. 523,766. 7 Claims. (Cl. 173—259.)



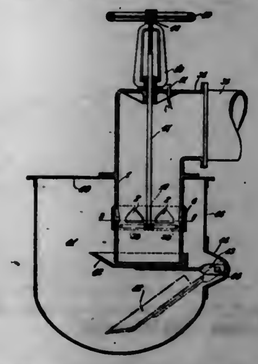
1. A binding post having a hollow tubular base part adapted to be attached in fixed relation to a supporting structure, said base part having an aperture in the upper end smaller in diameter than the diameter of said base part and having a wire-receiving aperture at its periphery, an axially movable member having a portion extending through the aperture in the upper end of said base part to permit operation of said member and having an enlarged portion confined within the base part and bearing against the inner surface of the tubular base part, an annular shoulder formed at the extreme upper end of the enlarged portion of said axially movable member and providing the only means of the axially movable member for engagement with a wire entered through the wire-receiving aperture in the base part and a spring normally pressing said enlarged portion toward the upper end of said base part to grip a wire between said annular shoulder and the material of said base part adjacent to the wire-receiving aperture therein.

1,919,954. PRINTING MACHINE. CURTIS GEORGE KRANZ, Chicago, Ill., assignor to Addressograph Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 10, 1930. Serial No. 434,694. 41 Claims. (Cl. 101—274.)



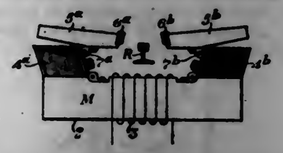
1. In a printing machine, means supporting a printing device in printing position, a roller platen for making impressions from the printing device, a frame supporting said roller platen, means for moving said platen along the frame, means extending substantially parallel with the printing device for supporting said frame, and means for adjusting the position of the frame to vary the impression pressure of said platen.

1,919,955. GAS OFFTAKE APPARATUS. WILLIAM JAMES BEAVER LEECH, STEPHEN HAY, HAROLD HOLLINGS, and ALBERT EDWIN BURTON, London, England. Filed Aug. 19, 1929, Serial No. 386,937, and in Great Britain Dec. 3, 1928. 6 Claims. (Cl. 202—256.)



1. A gas offtake apparatus including in combination a gas collecting main, a dip pipe extending downwardly into the collecting main and formed in the lower portion thereof with a plurality of openings, a member open at each end and in slidable contact and movable relatively to the dip pipe, the contact between the slidable member and the dip pipe being sufficiently close to effect direct baffling of the openings in the dip pipe in whole or in part, and means to move the slidable member relatively to the dip pipe in order to control directly the escape of gas through the said openings.

1,919,956. RAILWAY TRACK BRAKE. JOHN W. LIVINGSTON, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Apr. 17, 1931. Serial No. 530,794. 1 Claim. (Cl. 188—62.)

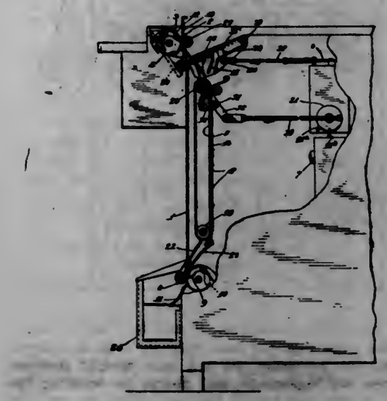


A railway track brake comprising a U-shaped electromagnet located in the trackway with its legs on opposite sides of a rail, such legs being formed of laminations which are parallel to the rail and are biased to bend away from the rail, and pole shoes hinged to the inner edges of the upper surfaces of said legs, each pole shoe having a portion which extends outwardly from the hinge to coact with the top of the associated leg and another portion which extends inwardly from the hinge to coact with a wheel on the rail, and each pole shoe being biased so that its outwardly extending portion swings upwardly away from the associated leg when the magnet is deenergized.

1,919,957. CHECK PRINTING AND PHOTOGRAPHING MACHINE. WALTER H. LYMAN and EDWARD G. RIX, Chicago, Ill., assignors to The International Check Endorser Co., Chicago, Ill. Filed Mar. 18, 1931. Serial No. 522,898. 7 Claims. (Cl. 88—24.)

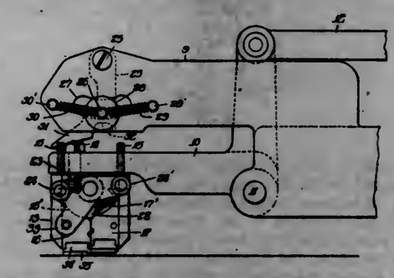
1. A check printing and photographing machine comprising a cylindrical impression member rotatable about

a horizontal axis, a check-controlled trip which when operated causes a single rotation of the impression cylinder to cause printing on one side of the check, an intermittently movable step-by-step conveyor to which the checks are delivered from the impression cylinder, means whereby for each revolution of the impression cylinder the conveyor is caused to advance a step to bring the checks successively into position to be photographed, a



second cylindrical impression member to cause printing on the other side of the check to which second cylinder the checks are delivered from the conveyor, a second check-controlled trip which when operated causes a single rotation of the second impression member, and a stacker to which the checks are delivered from the second impression cylinder for stacking the checks in the order in which they were delivered to the machine with the last printed face down.

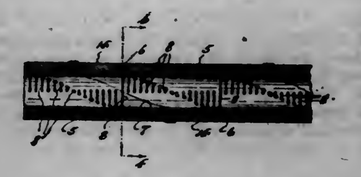
1,919,958. PLATEN FOR PRINTING AND ADDRESSING MACHINES. CECIL C. MCCAIN, Glen Ellyn, Ill., assignor to Addressograph Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 25, 1929. Serial No. 342,367. 18 Claims. (Cl. 101—57.)



1. A platen for printing and addressing machines comprising a plurality of separately operable sections, means for moving said sections automatically into and out of printing position, and means for locking said sections in printing position and rendering said moving means inoperative.

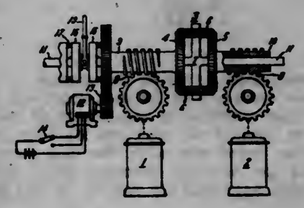
1,919,959. ABSORBENT FILTER FOR SMOKING APPLIANCES. PAUL H. MINTON, Chatham, N. J. Filed Feb. 6, 1932. Serial No. 591,255. 8 Claims. (Cl. 131—12.)

1. An absorbent filter cartridge for smoking appliances, comprising a tubular body formed of absorbent sheet material wound upon itself, and stitching of textile thread extending in a longitudinally spiral plane through said body and across the bore thereof, whereby said stitching forms a spiral screen defining open spiral passages between opposite sides thereof and the walls of said bore and extending from end to end of the latter.



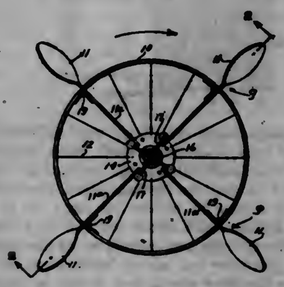
8. An absorbent filter cartridge for smoking appliances, comprising a body of absorbent material, and an external covering enveloping said body, said covering comprising substantially moisture proof and transparent cellulosic material, and means to secure said covering to said body, said covering being adapted to disclose the condition of the body consequent upon its use.

1,919,960. REGULATOR CONTROL SYSTEM. SHIGENARI MIYAMOTO, Tokyo, Japan, assignor to General Electric Company, a Corporation of New York. Filed Feb. 16, 1932, Serial No. 593,268, and in Japan June 20, 1931. 9 Claims. (Cl. 172—238.)



8. In combination, a pair of transformers each of which has a polyphase primary winding and a secondary winding relatively rotatable with respect to its associated primary winding, and means for simultaneously causing relative rotation of the windings of each of said transformers at the same speed but selectively in the same or opposite relative directions.

1,919,961. PROPELLER AND FLYWHEEL. JULIUS J. NOVAK, East Orange, N. J., assignor of one-fourth to Laurence A. Steinhardt, New York, N. Y. Filed Apr. 9, 1931. Serial No. 528,770. 20 Claims. (Cl. 170—177.)



1. An apparatus of the class described comprising a driving member, a relatively oscillatable driven member

rotatable therewith, a shaft for supporting said members, power units supported by said driven member having driving contact with said driving member, and said driven member oscillatable on said shaft.

1,919,962. CONDITIONING OF CELLULOSE FIBER FOR NITRATION. MILTON O. SCHUR and BENJAMIN G. HOOS, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Feb. 20, 1930. Serial No. 429,926. 5 Claims. (Cl. 260—146.)

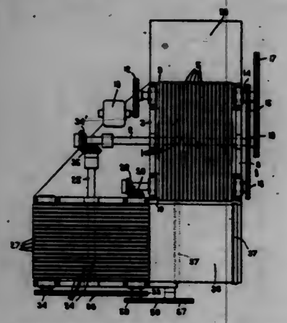
3. A process which comprises finely shredding a mass of mercerized cellulose pulp in the presence of moisture, drying the moist shreds, and nitrating the dried shreds.

1,919,963. COIN PACKAGING DEVICE. PERCY C. SMITH, Chicago, Ill. Filed Feb. 25, 1933. Serial No. 658,549. 12 Claims. (Cl. 133—1.)



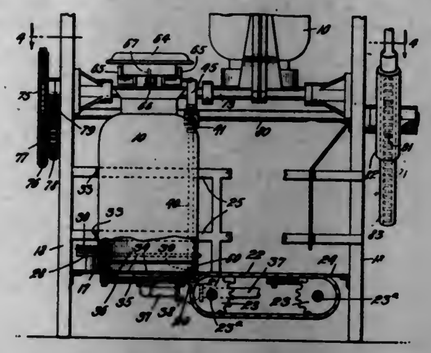
1. In combination, a table, and means to support a tubular coin wrapper with its open upper end in a partially flattened condition in the vicinity of the plane of and near an edge of the table and the body portion extending down below the table, the long transverse dimension of the partially flattened upper end of the wrapper being approximately parallel to said edge.

1,919,964. MEAT-CUBING MACHINE. JOSEPH P. SPANO, Quincy, Mass. Filed Dec. 13, 1929. Serial No. 413,809. 10 Claims. (Cl. 17—25.)



1. In a meat-cubing machine, the combination with two gangs of rotary slitting knives, each rotating about a horizontal axis, said axis having an angular relation to each other, of an endless feeding apron situated beneath each gang of knives by which the meat to be cubed is fed past the knives, each apron moving in a direction at an angle to the direction of movement of the other apron, a receiving platform on which each piece of meat is received from the first apron, and means to transfer said meat to the second apron so that the slits cut therein by the second gang of knives will be at right angles to those cut by the first gang of knives.

1,919,965. APPARATUS FOR WASHING CANS AND THE LIKE. BURT E. TAYLOR, Mount Vernon, N. Y., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 27, 1930. Serial No. 431,664. 7 Claims. (Cl. 141—7.)



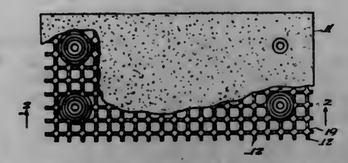
1. In a can washing machine, means for discharging a can from the main washing zone with its open end lowermost, means for reversing the can into upright position with its open end uppermost, and means for washing the lower side of the bottom of the can while in position with its open end uppermost.

1,919,966. LOCKING SLIDER. RAYMOND D. TAYLOR, Evanston, Ill., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed Mar. 22, 1932. Serial No. 600,417. 1 Claim. (Cl. 24—205.)



A locking slider structure comprising, in combination, a channel device for engaging and disengaging opposed series of fastener elements adapted to pass therethrough, a pull tab attached to the channel device, fastener element engaging locking means assembled as a part of the slider structure and operable by the pull tab to lock the slider against movement relative to the fastener elements when the pull tab is in a predetermined position, a one-piece rib-like part substantially free of lateral projections rigidly secured to and extending substantially the entire length of the channel device and extending away from one face thereof, said rib-like part having fastening means at each end securely engaged with cooperating means provided by the channel device to hold it in fixed position relative to the adjacent face of the channel device and having means providing a pivot for the pull tab, and said rib-like part having an aperture therethrough spaced from the face of the channel device about the thickness of the pull tab and a locking member passing through said aperture and holding said pull tab securely against the face of the channel, thereby to hold the locking means and the pull tab in slider locking position.

1,919,967. FRICTION BLOCK. JAMES S. THOMPSON, New York, N. Y., assignor to American Brakeblok Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 13, 1927. Serial No. 183,380. 8 Claims. (Cl. 188—234.)



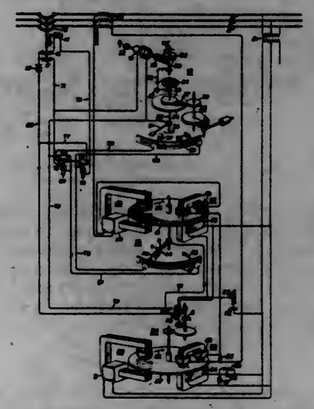
1. A friction block comprising a reticulated back, a composition body anchored on the back, the block having an opening extending through the body and the back to receive a device for fastening the block to a support, and reinforcing means comprising an eyelet and a washer engaging the back around the fastening opening therein.

1,919,968. FOOT PEDAL. FRANK W. TRABOLD, Detroit, Mich. Filed Mar. 26, 1930. Serial No. 438,961. 1 Claim. (Cl. 74—81.)



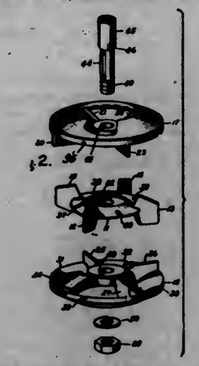
A foot pedal organization for use in the operation of the brakes and clutches of automobiles comprising a motion transmitting member, a foot receiving member integral therewith and provided with a pressure receiving area, which is transversely inclined, said foot receiving member being provided adjacent the outer edge thereof with an upwardly extending curved flange portion, for providing an in-toeing effect, and means operatively connected to the foot receiving member, for adjustably varying the inclination of the pressure receiving area.

1,919,969. PROTECTIVE APPARATUS. OLIVER C. TRAVER, Drexel Hill, Pa., assignor to General Electric Company, a Corporation of New York. Filed Nov. 26, 1930. Serial No. 498,424. 11 Claims. (Cl. 175—294.)



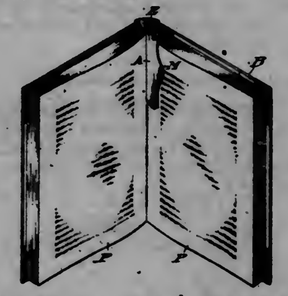
1. In combination, an electric circuit, a circuit interrupter and controlling means therefor including timing means, ohmic operable in accordance with an ohmic characteristic of the circuit, power directional starting means operable in accordance with an ohmic characteristic of the circuit and means controlled conjointly by said timing means, said ohmic means and said starting means for effecting the circuit opening operation of said interrupter in a time dependent on the location of a fault with power flow in a given direction.

1,919,970. IMPELLER. WILLIAM J. WOODS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 7, 1933. Serial No. 655,602. 4 Claims. (Cl. 103—115.)



1. An impeller comprising a center member having a hub and vanes formed integrally therewith, end members each provided with a hub having vanes formed integrally therewith, said vanes being of lesser height than the vanes of the center member, and means for mounting said end members on opposite sides of said center member so that the vanes carried by said end members are complementary to each other.

1,919,971. BOOKMARK. FREDERICK F. WULKOP, Wellesley, Mass. Filed Dec. 23, 1932. Serial No. 648,655. 2 Claims. (Cl. 116—119.)

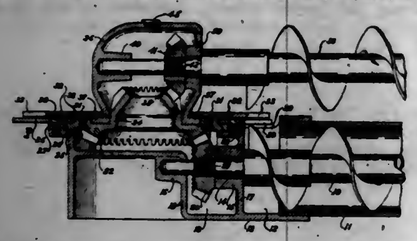


1. A book mark comprised of a longitudinal member adapted to fit the angle between the leaves of an open book, and having at one extremity a projecting member, the lower edge of which projecting member is at right angles with the adjacent edge of the longitudinal member, said projecting member being adapted to engage the upper edge of the inner lining of the back of the book and cut away at its lower outer edge to clear the book backing, thus serving to secure the mark within the book, whether the book be opened or closed.

1,919,972. AGITATING AND FEEDING MECHANISM FOR STOKERS. JOHN WYNN, Jr., Canton, Ohio. Filed Apr. 13, 1931. Serial No. 529,560. 23 Claims. (Cl. 198—64.)

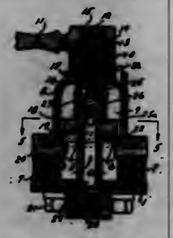
1. Feeding and agitating mechanism including a conveyer, a rotatable feeding member cooperating with the

conveyer, and a bar extending from a point above the center of the rotatable member beyond the periphery there-



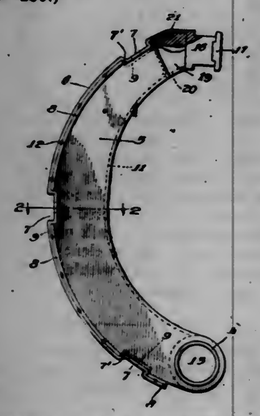
of and mounted for rotary movement relative to the rotatable member around the axis thereof.

1,919,973. VALVE MECHANISM. LAURENCE J. BERKELEY, Cleveland, Ohio. Filed Apr. 14, 1930. Serial No. 444,115. 4 Claims. (Cl. 251—90.)



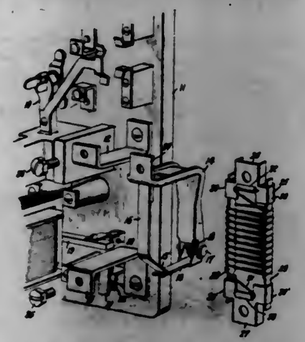
1. Valve mechanism, comprising a valve body and housing having a chamber therein, said valve body being provided with a seat surface, a valve member mounted to seat and rotate upon said surface, said valve body and member being provided with alined through openings, a driver extending through the housing and alined with said openings and provided with attaching means, and a tubular connector between said driver and valve member having its bore also alined with said opening, whereby a pilot member may be introduced through the alined openings of said body, valve member and tubular connector and attached to said driver.

1,919,974. FRICTION BRAKE. WILLIAM A. BLUME, Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 12, 1931. Serial No. 521,932. 6 Claims. (Cl. 188—250.)



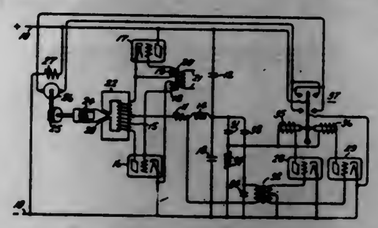
1. A supporting shoe for a friction element in a brake assembly comprising a pair of sheet metal stampings forming webs and having out-turned lateral flanges at their outer edges, a sheet metal stamping face plate mounted on and secured to said flanges and having spaced recesses, and in-turned lateral flanges on said webs opposite said recesses and secured to said face plate.

1,919,975. ELECTRICAL HEATER FOR THERMAL RELAYS. CHARLES H. CHAPMAN, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 18, 1930. Serial No. 436,816. 3 Claims. (Cl. 219—19.)



1. A removable electric heater for a thermal element comprising a pair of laterally spaced, notched insulating supporting strips, a resistor wire wound in the notches of said strips to form a heater coil for surrounding the thermal element, and metallic terminals for the respective ends of said coil, each terminal being provided with depending legs for supporting said insulating strips and with a contact portion located at one side of said legs so as to permit the insertion of the thermal element through the open ends of said coil and between said strips.

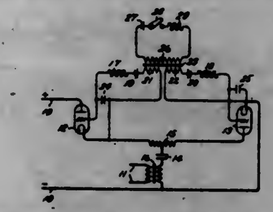
1,919,976. ELECTRIC POWER CONVERTING APPARATUS. ALAN S. FITZ GERALD, Wynnewood, Pa., assignor to General Electric Company, a Corporation of New York. Filed Jan. 26, 1931. Serial No. 511,147. 15 Claims. (Cl. 250—36.)



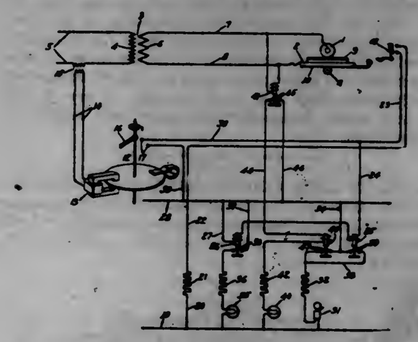
1. In combination, a supply circuit, a load circuit, one of said circuits being an alternating current circuit, a translating circuit for transmitting energy therebetween including a resonant circuit, and means responsive to a departure of the frequency of the current in said alternating current circuit from the natural frequency of the resonant circuit for varying the natural frequency of said resonant circuit.

1,919,977. ELECTRIC VALVE CONVERTING APPARATUS. ALAN S. FITZ GERALD, Wynnewood, Pa., assignor to General Electric Company, a Corporation of New York. Filed Dec. 24, 1931. Serial No. 582,987. 9 Claims. (Cl. 175—363.)

1. In combination, a source of current, a pair of vapor electric discharge valves, a capacitor, a circuit for charging said capacitor from said source including one of said valves, a circuit for discharging said capacitor including the other of said valves, an alternating current circuit associated with one of said capacitor circuits, means for successively rendering said valves alternately conductive and non-conductive, and means for providing a fixed time for deionization of said valves irrespective of the operating conditions of the apparatus.

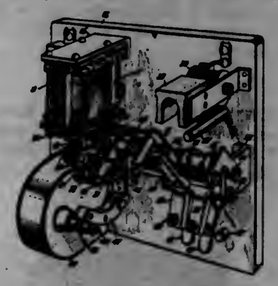


1,919,978. WELDING APPARATUS. JOHN T. H. DEMPSTER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 24, 1931. Serial No. 564,847. 9 Claims. (Cl. 219—4.)



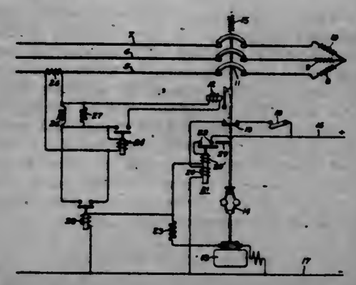
3. Welding apparatus comprising means for producing a line weld, and means responsive to the ampere seconds consumed in making the weld for indicating at the end of the welding operation the constancy of the welding current during said welding operation.

1,919,979. ELECTRIC SWITCH. ROBERT W. GOFF, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 8, 1929. Serial No. 369,324. 24 Claims. (Cl. 200—97.)



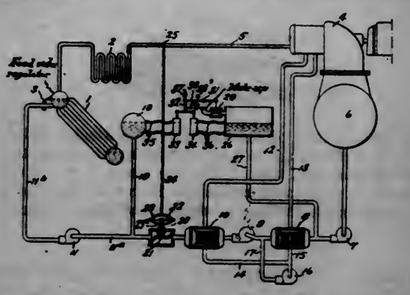
2. An electric switch including relatively movable circuit controlling contacts, a contact operating member provided with gear teeth, one tooth being of less length than the adjacent teeth, and an actuating element having a gear tooth operable into and out of meshing engagement with said one tooth and provided with a projection operable into the space between said adjacent teeth at the end of said one tooth for holding said contact operating member in a predetermined position when said gear teeth are unmeshed.

1,919,980. CONTROL OF ELECTRIC CIRCUITS. DANIEL C. HOFFMANN, Philadelphia, Pa., assignor to General Electric Company, a Corporation of New York. Filed Mar. 19, 1931. Serial No. 523,603. 7 Claims. (Cl. 175—294.)



1. In combination, an electric circuit, circuit interrupting means for said circuit, closing means for actuating said circuit interrupting means to close said circuit, means responsive to abnormal conditions of said circuit to effect the opening of said circuit interrupting means and means including a device connected to have its energization initiated substantially simultaneously with the energizing of said closing means for rendering said abnormal condition responsive means inoperative while the closing means is energized.

1,919,981. POWER INSTALLATION. PIERRE LE SUR, Belfort, France, assignor to General Electric Company, a Corporation of New York. Filed June 5, 1930, Serial No. 459,277, and in France June 18, 1929. 5 Claims. (Cl. 60—95.)



1. In a power installation, the combination of an elastic fluid generating means, turbine means receiving elastic fluid from the generating means, a condenser connected to the turbine means, pre-heating means for receiving and heating fluid from the condenser, means including a conduit and a valve in the conduit for conveying liquid from the pre-heating means to the generating means, means for supplying heating elastic fluid from a lower stage of the turbine means to the pre-heating means, means for conveying the heating fluid from the pre-heating means to the conduit ahead of the valve means as regards the direction of flow of fluid, and means for moving the valve to its closed position when the load on the generating means increases whereby the valve is completely closed when the load reaches a predetermined value and the supply of heating elastic fluid from a point between the generating means and a lower stage of the turbine means to the pre-heating means is prevented.

1,919,982. COMPASS. EMIL MAYER, Berlin-Schlachtensee, and ERNST BRÜCHE, Berlin-Reinickendorf, Germany, assignors to General Electric Company, a Corporation of New York. Filed Aug. 7, 1930, Serial No. 473,709, and in Germany Aug. 16, 1929. 2 Claims. (Cl. 33—204.)

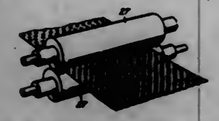


1. A compass comprising a fluorescent screen provided with compass markings, an electric discharge device comprising an envelope provided with an electron emitting cathode and with an anode arranged between said cathode and said screen and at a substantial distance from said screen, said anode being provided with an opening for directing a ray of electrons on said screen, and means for mounting said device to provide emission in a vertical direction and deflection of said electron ray from the vertical by the earth's magnetic field so that the point at which the ray impinges on said screen indicates the direction of the axis of the earth's magnetic field.

1,919,983. METHOD FOR PRODUCING LOW LOSS NON-AGING SILICON STEEL SHEETS. WESTON MORRILL, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 1, 1932. Serial No. 596,158. 4 Claims. (Cl. 148—21.5.)

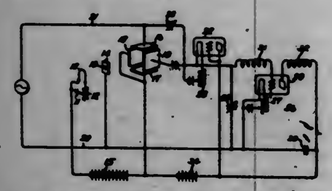
1. The method of treating silicon steel sheet material which comprises heating single sheets of said material at a temperature between 700° C. and 850° C., quickly cooling said sheets, heating the sheet material to a temperature between 850° C. and 1100° C. and quickly cooling the sheet material.

1,919,984. METHOD OF MAKING GRID STRUCTURES. GEORGE F. MURPHY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 1, 1930. Serial No. 465,163. 2 Claims. (Cl. 29—155.5.)



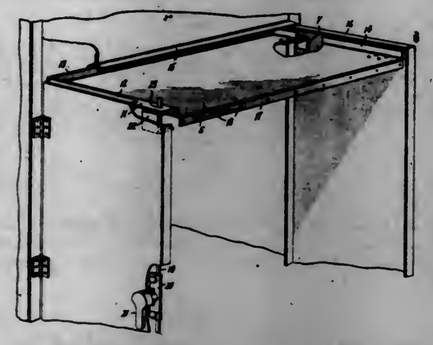
1. The method of fabricating grid material which consists in perforating sheet metal with openings greater than the required size, then rolling the metal in two directions angular to one another in order to reduce the size of the openings and to obtain a predetermined shape of opening.

1,919,985. CATHODE RAY OSCILLOGRAPH SWEEP CIRCUIT. FRANKLIN G. PATTERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 23, 1931. Serial No. 552,704. 11 Claims. (Cl. 171—95.)



1. In a cathode ray oscillograph the method of producing stationary images of recurrent alternating waves, which consists in electrostatically locking the sweep frequency with the phenomena to be observed.

1,919,986. ELECTRICAL SWITCH HOUSE. JAMES H. POWERS, Yeadon, Pa., assignor to General Electric Company, a Corporation of New York. Filed Dec. 22, 1930. Serial No. 504,057. 6 Claims. (Cl. 247—1.)



1. The combination with an outdoor switch house having a pair of doors pivotally mounted on said house each movable about a vertical axis to a position substantially at right angles to said house, of means forming with said doors when in the aforesaid open position an auxiliary protective housing in communication with the interior of said switch house comprising a plate-like cover member coacting with the upper portions of said doors, means permanently connecting said cover member to one of said doors and means detachably connecting said member to the other door.

1,919,987. VACUUM CIRCUIT INTERRUPTING APPARATUS. DAVID C. PRINCE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 14, 1930. Serial No. 467,717. 4 Claims. (Cl. 200—144.)



1. A vacuum alternating current circuit interrupter comprising a highly evacuated envelope, electrodes extending within and sealed with respect to said envelope, conducting means interconnecting said electrodes in the closed circuit position of the interrupter, said electrodes being separated by a gap in vacuum in the open circuit position of the interrupter, and a grid of conducting material having no fixed potential interposed in said gap between the electrodes and spaced with respect to the electrodes, said grid positioned in said vacuum gap so that it may assume an individual potential upon reversal of voltage across said electrode.

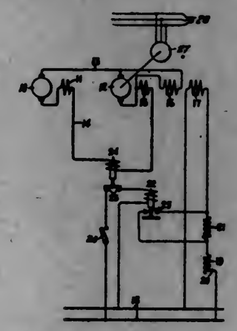
1,919,988. RECTIFIER. EMIL RUFF, Berlin-Frohnau, Germany, assignor to General Electric Company, a Corporation of New York. Filed Jan. 31, 1930, Serial No. 424,997, and in Germany Feb. 8, 1929. 6 Claims. (Cl. 175—366.)



2. A dry rectifier comprising a metal layer, a second metal layer of another metal and a layer consisting of a metal compound arranged between said metal layers, said metal compound layer and said second metal layer being deposited from the vapor state in vacuo.

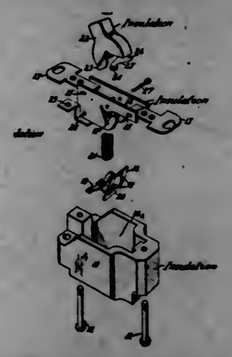
5. In the method of producing a dry rectifier composed of a layer of a metal compound and a layer of a metal the step of depositing said layer of a metal compound from the vapor state in vacuo and the step of depositing said layer of metal from the vapor state in vacuo.

1,919,989. MOTOR CONTROL SYSTEM. CARL SCHIEBELER, Berlin-Halensee, and ARNO WEISS, Berlin-Charlottenburg, Germany, assignors to General Electric Company, a Corporation of New York. Filed Jan. 9, 1930, Serial No. 419,650, and in Germany May 2, 1929. 4 Claims. (Cl. 172—239.)



1. In a variable voltage control system, a generator provided with a field circuit, a motor supplied therefrom for driving a load body, a resistance connected in said field circuit, and means responsive to the current exchanged between said generator and said motor for intermittently short circuiting said resistance to produce variations in the current supplied to said motor between a maximum value and a substantially lower minimum value thereby to cause said motor to deliver a series of driving impulses to said load.

1,919,990. ELECTRIC SWITCH. PERCY GEORGE SHAW, Bridgeport, Conn., assignor to General Electric Company, a Corporation of New York. Filed Aug. 19, 1931. Serial No. 558,091. 1 Claim. (Cl. 200—67.)



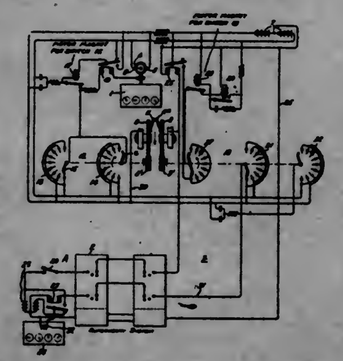
A unitary switch mechanism adapted to be mounted in a receptacle comprising supporting end pieces, side plates of insulating material connected to the end pieces in spaced parallel relation to each other and provided with notches forming pivots, a lever pivoted in said notches provided with an angularly projecting extension, a flexible bridging contact mounted on said extension and extending transversely of the side plates beneath the same, terminal contacts secured to the lower edges of the side plates in positions to be engaged by said bridging contact, and means including a handle mounted on the side plates for moving the lever.

1,919,991. ELECTRORESPONSIVE TIME ELEMENT DEVICE. GEORGE B. STARIE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed May 4, 1925, Serial No. 28,036, now Patent No. 1,720,613, dated July 9, 1929. Divided and this application filed July 26, 1926. Serial No. 125,112. 10 Claims. (Cl. 200—97.)



1. An electromagnetic time element device comprising a magnetic structure including a magnetic movable element biased to the unattracted position, a winding for energising the magnetic structure to operate the magnetic movable element to the attracted position to form in cooperation with said structure a substantially closed magnetic circuit, said magnetic structure and winding cooperating to set up a magnetic pull on said movable element materially in excess of the pull required to maintain the movable element in the attracted position against its bias to the unattracted position, a switch contact operated by the movable magnetic element from one position to a second position and from the second position to the first position under the control of the flux set up in said magnetic structure by said winding, and means for controlling the energising circuit of said winding to cause the excess of magnetic pull set up by said winding and magnetic structure to persist for a time interval after operation of said means and thereby provide a delay in the operation of the contact from the second position to the first position corresponding to the time taken by the excessive magnetic pull on the element to decrease to the value at which the pull is overcome by the bias of the element.

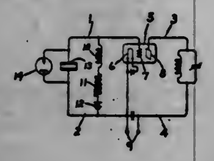
1,919,992. IMPULSE STORAGE MECHANISM. CLYDE E. STEWART, Drexel Hill, Pa., assignor to General Electric Company, a Corporation of New York. Filed Jan. 18, 1929. Serial No. 333,408. 13 Claims. (Cl. 177—351.)



13. In combination, a station, a second station, means for interconnecting said station, means in the first station for integrating a variable quantity and for producing impulses at a rate determined by said variable quantity, means for storing said impulses, a second means in said

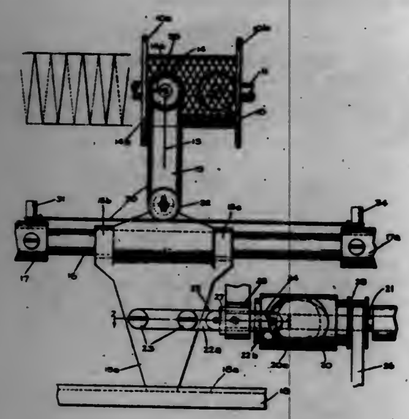
first station for transmitting impulses at a predetermined rate independent of said variable rate and in number dependent upon the number of impulses stored in said impulse storing means, and thereby discharging said storing means, means for causing operation of said last means from the second station when said stations are connected together, thereby to discharge said storing means, and totalizing means in said second station responsive to impulses transmitted by said second-mentioned means for indicating the quantity integrated by said integrating means.

1,919,993. OSCILLATION GENERATOR. AUGUSTUS B. TRIPP, Cliftondale, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 4, 1928. Serial No. 282,575. 8 Claims. (Cl. 250—36.)



1. An electric apparatus including an electron discharge device having an output circuit, and an input circuit including a piezo electric element, said output circuit and input circuit being so arranged that oscillations having the natural frequency of said piezo electric element are produced in said output circuit, and means for increasing the intensity of said oscillations in the output circuit, said means comprising a discharge path connected in shunt with said piezo electric element.

1,919,994. COIL WINDING MACHINE. JACOB J. VIENNEAU, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Aug. 5, 1929. Serial No. 383,482. 13 Claims. (Cl. 242—10.)



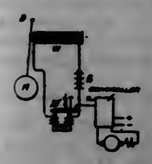
1. In a winding machine, the combination with a rotatable flanged winding spool, of means for guiding the material to be wound to said spool, operating means for effecting traversing motion between said guiding means and said spool, auxiliary means for controlling said guiding means so as to deposit said material against the inner surfaces of the flanges and means providing limited independent movement of said operating means relative to said guiding means so that the traversing motion between said guiding means and said spool is delayed temporarily at the end portions of said spool, whereby the end turns are wound on circumferences of the spool adjacent said flanges.

1,919,995. METHOD OF FORMING CORES FOR DYNAMO-ELECTRIC MACHINES. THOMAS A. WEY, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 26, 1932. Serial No. 639,626. 3 Claims. (Cl. 29—155.53.)



1. The method of making toothed cores for electrical machines which comprises cutting a long narrow piece of magnetic material longitudinally into two narrow strips and simultaneously therewith forming parallel teeth and slots with the teeth in one strip occupying the slots between teeth on the other strip, separating the strips, and finally bending each of the strips edgewise to form a helix with the slots in axial register.

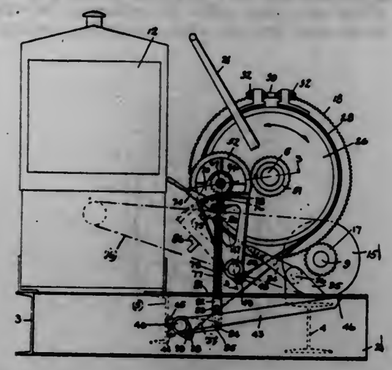
1,919,996. ACCELERATION RESPONSIVE DEVICE FOR CONTROLLING ELECTRIC MOTOR-DRIVEN VEHICLES. OTTO WÜNSCHE, Berlin-Friedenau, Germany, assignor to General Electric Company, a Corporation of New York. Filed Oct. 28, 1929, Serial No. 403,110, and in Germany Nov. 1, 1928. 5 Claims. (Cl. 175—355.)



1. A controlling device for electric motor driven vehicles comprising a circuit, a pressure responsive variable resistance element connected to control the current in the circuit, electroresponsive acceleration controlling means for the vehicle having an operating winding connected to be energized in accordance with the current in the circuit, an inertia mass movably mounted to be responsive to the acceleration of the vehicle in both the forward and reverse directions, and a pair of operating members associated with said inertia mass, one for varying the pressure on said resistance element upon movement of said inertia mass in response to acceleration of the vehicle in one of said directions, and the other for varying the pressure on said resistance element upon movement of said inertia mass in response to acceleration of the vehicle in the other of said directions.

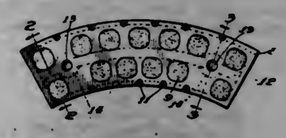
1,919,997. SAFETY DEVICE FOR HOISTING ENGINES. OLA L. BEARY, Duluth, Minn., assignor to Clyde Iron Works, Duluth, Minn., a Corporation of Maine. Filed Dec. 17, 1929. Serial No. 414,796. 5 Claims. (Cl. 188—82.)

1. In a hoisting mechanism, the combination with a winding spool, a safety brake associated with said spool, fractionally engaged means for applying said brake upon unwinding rotation of said spool, resilient means for normally maintaining said frictional engagement, a service brake for said spool, means for releasing said frictional engagement, upon application of said service brake, and



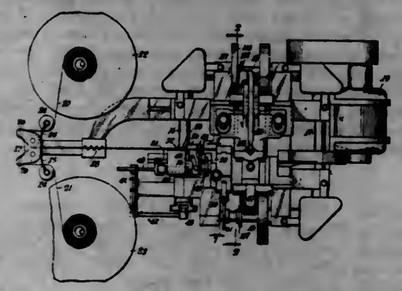
independently operable means adapted to effect said frictional engagement during the application of said service brake.

1,919,998. FRICTION CLUTCH BLOCK. WILLIAM A. BLUME, Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 31, 1931. Serial No. 512,565. 4 Claims. (Cl. 192—107.)



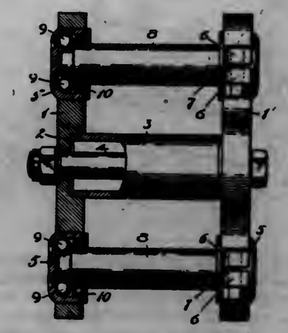
1. A friction clutch block comprising a composition body and a supporting back therefor, lugs on said back embedded in said body and having openings extending into said lugs to receive attaching devices, and a strengthening rib on said back and embedded in said body and extending longitudinally thereof and between said lugs to reenforce said lugs and said back.

1,919,999. MACHINE FOR FORMING AND FASTENING. ALWYN E. BORTON, South Orange, N. J., assignor, by mesne assignments, to Associated Patentees, Inc., a Corporation of New Jersey. Filed Feb. 2, 1932. Serial No. 590,419. 85 Claims. (Cl. 118—1.)



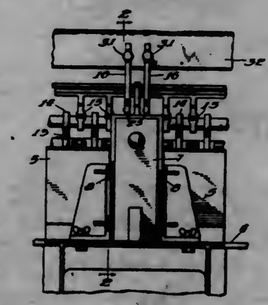
1. A machine of the character disclosed, comprising in combination, means for feeding two strips of stock in face-to-face relation, means for forming said strips of stock while in such face-to-face relation, means for severing the strips in predetermined lengths and means for bringing the formed lengths together in face-to-face relation.

1,920,000. SPRING SHACKLE. JAMES ROBINSON CHAMBERLAIN, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Dec. 4, 1930. Serial No. 499,934. 1 Claim. (Cl. 267—54.)



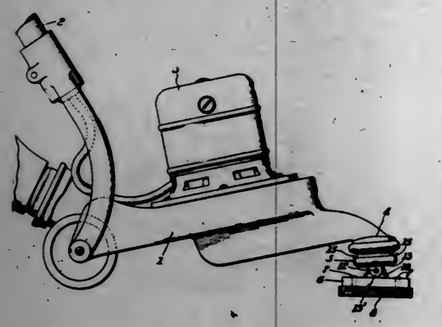
In a spring shackle, the combination of two links, a pair of complementary antifriction bearings in each of said links, one of said bearings of each pair being adjustable to and fro relatively to the other, a bolt passage through said links substantially midway in the length of each, a bolt therefor, a spacer sleeve of greater internal diameter than the external diameter of said bolt, the ends of said sleeve being tapered, a relatively shallow recess in the inner wall of each of said links having a tapered wall substantially concentric with said bolt passage for receiving the adjacent end of the spacer sleeve.

1,920,001. SAFETY DEVICE. JOHN C. CHAMBERS, Bridgeport, Conn., assignor to Addressograph Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 15, 1930. Serial No. 502,296. 7 Claims. (Cl. 271—27.)



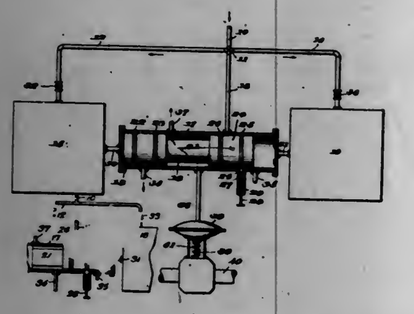
1. In a printing machine which has a sheet supporting rack and means for withdrawing sheets therefrom, the combination of a safety device including a pivotally mounted member embodying a knife edge engageable with the edges of the sheets and yieldably urged into sheet engaging position and movable over said edges to ensure separation of said sheets so that the sheets will be withdrawn from said rack one at a time, means supporting said member, means providing adjustment of said supporting means whereby said member may be moved relative to the ends of said sheets, and means providing another adjustment of said supporting means whereby said member may be moved relative to the face of said sheets.

1,920,002. ATTACHMENT FOR VACUUM CLEANERS. DANIEL H. CHASON, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed June 22, 1932. Serial No. 618,668. 3 Claims. (Cl. 15—246.)



1. A floor polishing attachment for a portable vacuum cleaner having a suction nozzle, comprising a plate, a polishing pad secured to the under side of said plate, spring-clips adapted to embrace said suction nozzle for attaching said plate to said nozzle, and means for pivotally connecting said plate to said spring-clips.

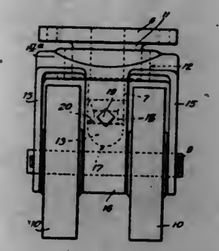
1,920,003. TIMING MECHANISM. ROY L. CHENAULT, Pittsburgh, Pa., assignor, by mesne assignments, to Gulf Research & Development Corporation, Pittsburgh, Pa., a Corporation of Delaware. Filed Jan. 14, 1932. Serial No. 586,685. 14 Claims. (Cl. 137—145.)



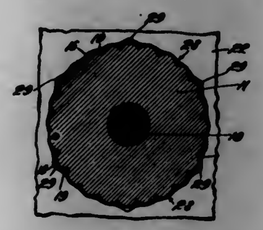
1. A pneumatically operated timing device comprising a source of fluid under pressure, a cylinder and piston slidable therein, pressure reservoirs having outlets communicating with said cylinder at its end portions and inlets communicating with said source of fluid, valves in said inlets for regulating the flow of fluid into the respective reservoirs, vents in the wall of said cylinder adapted to be covered and uncovered alternately by said piston in its movement from end to end of the cylinder, and a detent yieldingly holding the piston in either of its extreme positions to permit the accumulation of fluid in one reservoir while the other reservoir is in communication with one of the said vents.

1,920,004. CASTER. HUGH A. CURRIE, Chicago, Ill. Filed May 2, 1930. Serial No. 449,158. 3 Claims. (Cl. 16—47.)

1. In combination in a caster structure, a supporting plate provided with an integral depending cylindrical boss, a post secured in and extending downwardly from the boss, a wheel frame and wheels mounted coaxially thereon, and a universal bearing connection between the lower end of the post and the frame between said wheels, the axis of the post being radial of the axis of the wheels, said frame being provided with an elliptical opening disposed with its longer axis parallel to the wheel axis and the boss extending about the post and into said opening and cooperating with the surrounding wall thereof to limit rocking movement of the wheel frame, the boss guarding the post against shearing stresses incident to rocking of the frame.



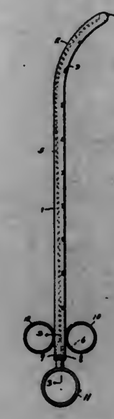
1,920,005. PENCIL AND METHOD OF FINISHING SAME. WILLIAM DANEKE, Linden, N. J., assignor to Joseph Dixon Crucible Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 18, 1930. Serial No. 468,845. 3 Claims. (Cl. 41—38.)



3. The method of finishing cylindrical pencils which consists in forming on and wholly covering the periphery of the pencil longitudinally-extending, spiral, rounded ridges abutting each other, applying to the periphery of the pencil a primary coat of finishing material and permitting it to dry, applying to the primary coat a secondary coat of finishing material, and then before the secondary coat dries removing from the tops of the ridges longitudinally-extending, spiral stripe, so that the remainder of the secondary coat occupies the depressions between the ridges and appears on the ridges as longitudinally-extending spiral stripes.

1,920,006. PROSTATIC CATHETER. JOSEPH V. DOZIER, Flatonia, Tex., assignor of one-fourth to Edward A. Arnim, jr., and one-fourth to De Fay Johnson, Flatonia, Tex. Filed July 26, 1932. Serial No. 624,847. 3 Claims. (Cl. 128—349.)

3. A prostatic catheter comprising a canula open at opposite ends, the distal end portion of the canula being provided with an internal seat, an obturator insertible into the canula through the posterior end thereof for engagement with the internal seat for closing the distal end of the canula, an elongated resilient member secured to the obturator for applying or removing the obturator,



and means for anchoring the posterior portion of said resilient member to the canula when the obturator is engaged with its seat.

1,920,007. FRAME FOR REFRIGERATOR DOORS. KENNETH J. DURANT and CARL F. HILLDRING, Akron, Ohio, assignors to American Hard Rubber Company, New York, N. Y., a Corporation of New York. Filed Oct. 20, 1931. Serial No. 569,934. 7 Claims. (Cl. 20—35.)



7. A frame for refrigerator doors having a hollow hard-rubber casing provided with one relatively soft and penetrable wall, and spaced sections of a penetrable filler located within and enclosed by the casing.

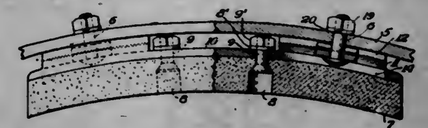
1,920,008. SEED DISINFECTANT. MAX ENGELMANN, Wilmington, Del., assignor to Bayer-Semesan Company, Wilmington, Del., a Corporation of Delaware. Filed July 25, 1929. Serial No. 381,081. 5 Claims. (Cl. 167—38.)

1. A process of making dust-like disinfectant compositions containing mercury which comprises effecting a reaction by intimate contact between mercuric oxide, an acid material (taken from a group consisting of a free acid and an acid salt), and a hydrocarbon derivative of a metal that occurs above mercury in the electromotive series, in the absence of a liquid diluent.

1,920,009. SEED DISINFECTANT. MAX ENGELMANN, Wilmington, Del., assignor to Bayer-Semesan Company, Wilmington, Del., a Corporation of Delaware. Filed July 25, 1929. Serial No. 381,082. 3 Claims. (Cl. 167—38.)

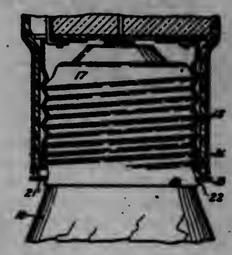
1. A seed disinfecting composition the active ingredient of which consists essentially of an organic lead compound in which the lead is attached to a carbon atom.

1,920,010. FRICTION BRAKE. HUGH A. GILLIES, Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 5, 1931. Serial No. 561,876. 12 Claims. (Cl. 188—234.)



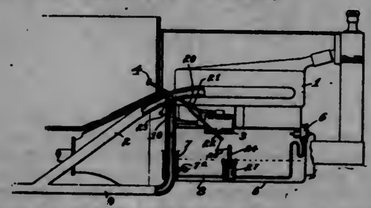
1. In a friction brake embodying a band, a friction element, and universally adjustable means for attaching the friction element to the band.

1,920,011. LOCK FOR LIGHT BULBS. GEORGE GOCKSTETTER, Canton, Ohio. Filed Nov. 5, 1932. Serial No. 641,486. 13 Claims. (Cl. 173—356.)



1. In combination with a lamp socket and a lamp bulb having a base fitting within said socket, a locking ring located within the socket and around the base and comprising two layers of paper and the like connected together by an adhesive and a coil of wire and the like located between said layers, said locking ring being connected to the socket and the base.

1,920,012. INTERNAL COMBUSTION ENGINE. JOHN GOOD, Garden City, N. Y., assignor to Good Inventions Co., New York, N. Y., a Corporation of New York. Filed July 12, 1920, Serial No. 395,440. Renewed Apr. 22, 1931. 8 Claims. (Cl. 184—104.)

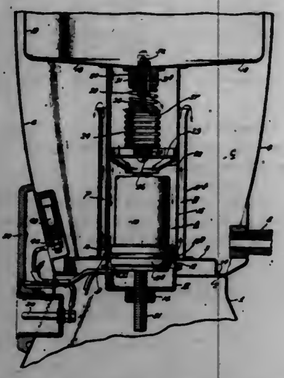


2. In an internal combustion engine, the combination of a main lubricant reservoir from which a wearing surface of the engine is supplied during normal operation of the engine, a secondary container for a liquid medium, means providing a passage leading from said secondary container to said wearing surface, and mechanism for controlling the supply of said medium from said secondary container to said wearing surface through said passage for short periods of time, said mechanism being so arranged that the supply of said medium to said wearing surface can be discontinued without stopping the supply of lubricant thereto from said main reservoir.

1,920,013. BEVERAGE WATER HEATER. LEE B. GREEN, Lakewood, Ohio, assignor to The Globe Machine & Stamping Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 10, 1932. Serial No. 628,168. 24 Claims. (Cl. 219—38.)

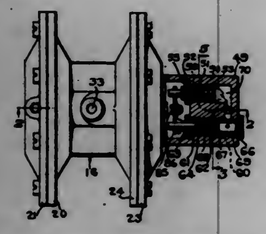
1. A liquid heater comprising a container affording a hot-liquid storage chamber, a liquid-receiving receptacle disposed within the container with the bottom of the re-

ceptacle at higher elevation than the bottom of the said chamber, the receptacle having a discharge outlet in its bottom; a heating member below the said outlet; confining means housing the liquid after its emission from the receptacle through the said outlet to compel that



liquid to flow over the heating member, and guide means disposed for confining the liquid after it has passed the heating member and for guiding this liquid upwardly so as to discharge the heated liquid into the said chamber at an elevation considerably above the bottom of that chamber.

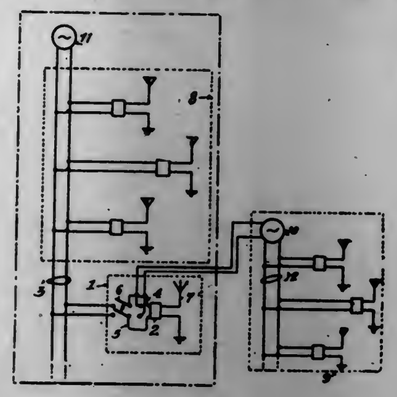
1,920,014. MULTIPLE DIAPHRAGM PUMP. ERWIN C. HORTON, Hamburg, and HENRY HUBBER, Buffalo, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y. Filed June 26, 1931. Serial No. 547,132. 15 Claims. (Cl. 103—152.)



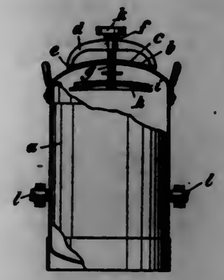
1. A pump for motor vehicles, having a pair of end compartments separated by an intermediate body portion, the latter having a rod guide therein between the end compartments, a diaphragm in each compartment partitioning the same into an inner liquid fuel chamber and an outer fluid pressure motor chamber, a rod connecting the two diaphragms for movement in unison, said rod being supported in said rod guide and having free sliding contact therein with the opposite ends of the guide opening into the adjacent liquid fuel chambers, any leakage of fuel from one fuel chamber along the rod guide having free exit to the companion fuel chamber, said intermediate body portion having a common fuel inlet and a common fuel outlet opening directly into and out of the fuel chambers, and means for operatively admitting fluid pressure to the outer, motor chambers.

1,920,015. SYNCHRONIZING SYSTEM. CHARLES E. HUFFMAN, Montclair, N. J., assignor to Jenkins Television Corporation, Jersey City, N. J., a Corporation of Delaware. Filed Jan. 9, 1930. Serial No. 419,497. 10 Claims. (Cl. 178—69.5.)

10. In a television system the combination of a central station transmitter, a television receiver situated in a locality having a different commercial supply frequency from that of the transmitter, and means for operating the transmitter under control of the supply frequency in the locality of the receiver.



1,920,016. MILK DISPENSER. REINHOLD MACK, Goppingen, Germany. Filed July 21, 1930. Serial No. 469,529. 3 Claims. (Cl. 225—21.)



1. An apparatus for treating liquids, comprising a vessel, means connected with said vessel for oscillating the same, a lid for an opening formed in said vessel, means connected with said vessel for reciprocating said lid to cover and uncover said opening, a riser tube fitting into another opening of said vessel, and a four-way cock connected with said riser tube, the last-mentioned four-way cock being adapted to transmit gas introduced into and discharged from said vessel as well as a liquid drawn out of said vessel.

1,920,017. OVERLOAD RELEASE MECHANISM. JOHN M. MCCLATCHIE, New York, N. Y., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 17, 1931. Serial No. 509,406. 8 Claims. (Cl. 192—56.)

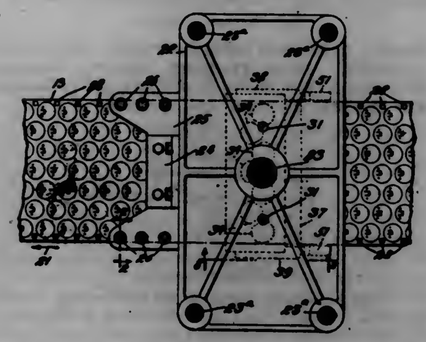
1. In a device of the character described having rotary driving and driven elements, means operatively to connect said elements, and automatically to disconnect them under an overload, comprising an oblong member pivotally carried with one of said elements, a depression formed in the other element, a spring carried with the first-named element means operatively interposed between the spring and the member and having a depression for engagement with one end of the oblong member when its other end engages the first-named depression and portions for abutting against a side of the oblong member when it

is turned so as not to engage the depressions, and means



carried with the member whereby it may be turned to a desired position.

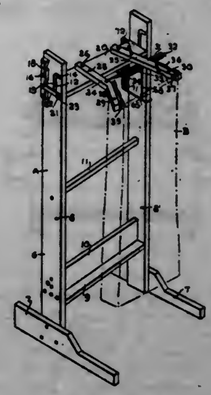
1,920,018. APPARATUS FOR THE MANUFACTURE OF WIRE PULL BOTTLE CAPS. FRANK O'NEILL, Jr., New York, N. Y., assignor to The Fargo Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 16, 1932. Serial No. 605,597. 19 Claims. (Cl. 140—93.)



1. A device of the class described comprising a support on which a paper sheet containing a plurality of aligned inserted wire pulls is held, means for embedding portions of the wire pulls in the sheet, and means acting in advance of the embedding means for shifting the position of unaligned wire pulls to align them with the other wire pulls previous to their embedment in the sheet.

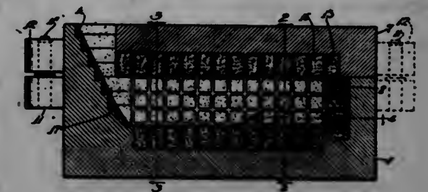
1,920,019. SACK OR BAG HOLDER. EVERETT ROSCOE OVERMYER, La Paz, Ind. Filed Oct. 28, 1931. Serial No. 570,735. 3 Claims. (Cl. 83—26.)

1. In a holder for receptacles being filled, the combination of a shelf provided with pivot pins secured to and extending from the ends thereof adjacent the side edge thereof, a frame including end walls provided with slots receiving said pins for horizontal and pivotal movement thereof and with connecting slots for vertical movement of said pins, means carried by said shelf for supporting a receptacle at the open mouth of said receptacle, means for normally holding said shelf in a horizontal position and means for selectively preventing said pins to travel along said horizontal slots, whereby, while said pins will be prevented from traveling along said horizontally disposed slots, rotation thereof will not be prevented in said



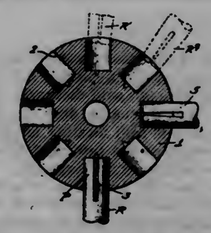
horizontal slots, thus permitting manual tipping of said shelf.

1,920,020. CASTING MOLD. FRED M. POE, Suffern, N. Y., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 29, 1932. Serial No. 608,171. 6 Claims. (Cl. 22—113.)



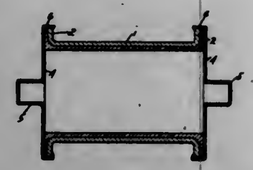
1. A wall with which the molten metal contacts in a mold and comprising refractory material and a metal grate embedded in the refractory material to support and protect the refractory material.

1,920,021. END EXPANDER FOR STRUCTURAL TOY RODS. FRANK SCHROEDER, Kansas City, Mo., assignor to The Toy Tinkers, Inc., Evanston, Ill., a Corporation of Illinois. Filed Jan. 28, 1933. Serial No. 654,021. 5 Claims. (Cl. 46—35.)



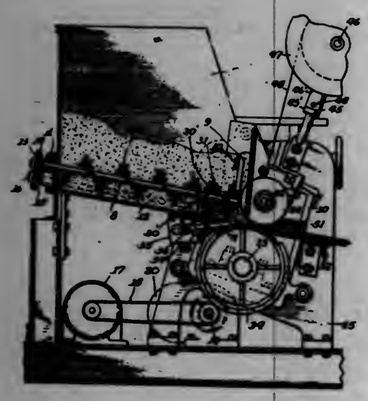
1. In a toy construction set including a rod which has its end portion divided into two prongs by a diametric slot, means to resiliently hold said prongs apart comprising a spring slidably insertible into the slot and made from flat resilient metal of a thickness less than half the distance between the opposed walls of the slot; the spring being formed to a sinuous side elevation to present convexed face portions alternately to the said opposed walls.

1,920,022. BEARING MANUFACTURE. WALTER J. SIX, Indianapolis, Ind., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 7, 1930. Serial No. 419,055. 1 Claim. (Cl. 29—149.5.)



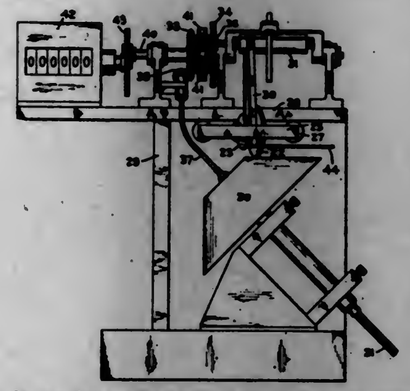
In a method of making bearings, the steps which consist in providing a cylindrical flanged steel shell, introducing thereinto a predetermined quantity of comminuted brass, sealing the flanges of said shell at the radially outward edges thereof, rotating said shell and applying heat thereto to melt such comminuted metal and cause the same to flow uniformly about the interior of the shell and exterior of said flanges to form a lining thereon, cooling said lining and finally removing said lining from said flanges.

1,920,023. MACHINE FOR MAKING FRICTION ELEMENTS. HARRY N. SMITH, Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 27, 1930. Serial No. 491,375. 11 Claims. (Cl. 18—5.)



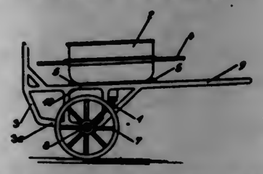
11. A machine of the class described including a hopper having a discharge opening, means for feeding material from said hopper through said discharge opening, forming means adjacent said discharge opening, means operating said feeding means and said forming means whereby material from said hopper is fed into said forming means and compressed therein into strip formation, means directing a reenforcing member for said strip to said forming means whereby said material is joined with said reenforcing member by said forming means, and a substantially T-shaped bracket including a portion supporting a supply of said reenforcing member in supplying position and including another portion supporting an additional supply of said reenforcing member whereby when all of said reenforcing member has been withdrawn from the supply thereof in supplying position said bracket may be moved to move said additional supply of said reenforcing member into supplying position so that said reenforcing member may be continuously fed to said forming means.

1,920,024. INTEGRATING MECHANISM. HENRY J. STEHLI, Cedar Grove, N. J., assignor to Sintering Machinery Corporation, Netcong, N. J., a Corporation of New Jersey. Original application filed Dec. 18, 1928, Serial No. 326,825. Divided and this application filed Apr. 26, 1932. Serial No. 607,529. 7 Claims. (Cl. 235—61.)



1. In an integrating mechanism, a friction cone, a wheel in frictional driving relation therewith, means to drive said cone in accordance with one of the quantities of the function to be integrated, means to cause said wheel to take a position on said cone corresponding to the instantaneous value of the other quantity of the function to be integrated, means for combining the rotations of said cone and said wheel to give the integrated function.

1,920,025. TIPPABLE AND PORTABLE MIXING APPARATUS. JACOB THORDSEN, Konnern, Germany. Filed Oct. 3, 1931, Serial No. 566,695, and in Hungary May 21, 1931. 2 Claims. (Cl. 83—73.)



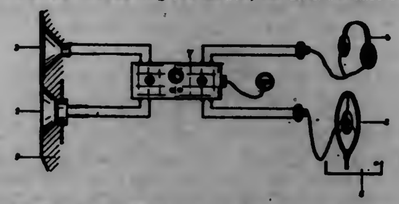
1. A tippable mixing appartus for mortar and the like, comprising in combination running wheels, a frame composed of horizontal and vertical parts, a vertical bearing on the upper side of said frame, a mixing vessel having a pivot pin projecting from its under side rotatably mounted in said bearing, guide rolls on the upper side of said frame arranged near the circumference of said vessel adapted to support said vessel and facilitate its rotation, and a plurality of handles projecting radially in star shape from the periphery of said vessel adapted to enable the rotation of said vessel by hand.

1,920,026. ELIMINATION OF INSECT INFESTATION. NATHANIEL TISCHLER, Bristol, Pa., assignor to Rohm & Haas Company, a Corporation of Delaware. Filed Nov. 25, 1929. Serial No. 409,768. 2 Claims. (Cl. 167—22.)

2. An insecticide and fumigant comprising a mixture of tertiary butyl alcohol and carbon tetrachloride in such amounts as to be noninflammable at ordinary temperatures.

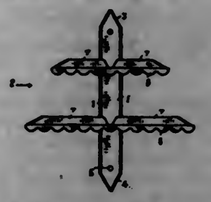
1,920,027. FIGURE. ROBERT WILHELM, Leipzig, Germany. Filed May 1, 1931, Serial No. 534,426, and in Germany May 21, 1930. 3 Claims. (Cl. 46—40.)

1. A figure comprising a body portion, a head for the said body portion, means for imitating speech and transmitting sound inside the said body portion, motion members inside the said head for moving the mouth and comprising a lever disposed inside the head portion of the figure, one end of the said lever being arranged in the chin of the figure's head, a spring for the said lever, an electromagnet inside the head portion for moving the said lever, an electric contact disposed outside the figure on the chin of the operator, a resistance capable of being influenced by the said contact and conductors interconnecting the means for moving the mouth, the said contact being



actuated by the chin motion of the operator to supply current through the said conductors to the said electromagnet, the current impulses fluctuating in intensity, motion members inside the said head portion for moving the ears and the hair, switching devices outside the figure for influencing the motion members inside the said head portion, and conductors connecting the said switching devices with the said motion members inside the said head portion, the motion of the said members being effected independently from one another by electromagnetic means.

1,920,028. BRACKET CONSTRUCTION. JOHN H. WILKIN, Yorktown, Ind. Filed July 3, 1931. Serial No. 548,614. 2 Claims. (Cl. 211—90.)



1. A bracket structure consisting of an upright frame member angular in cross section having tapered end and which is adapted to be secured at the angle of the room walls, a shelf made of sheet material, angular in plan formation and having upturned edges, the inner portions thereof being adapted to repose in removable engagement with the frontal faces of the frame member and the outer portions thereof being adapted to be bent to position to engage the adjacent room walls, and a strap extending from one of said edges to the other of said edges which is spaced from the corner portion of the shelf so as to engage the said frame member and the plane of its upper edge being above the plane of the shelf, substantially as and for the purposes described.

1,920,029. CIRCUIT CONTROLLER. STANLEY S. GREEN, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a Corporation of Illinois. Filed May 6, 1931. Serial No. 535,401. 38 Claims. (Cl. 200—113.)

1. The combination of a circuit controller including a casing, a control tube therein, and means for filling said control tube with a liquid conductor upon rotating said casing through over ninety degrees and a mounting therefor including a base, a conductor-support rigidly secured thereto, a conductor rigidly connected to said circuit controller and pivotally connected to said conductor-support, a second conductor spaced from said first named conductor-support and conductor, said circuit controller depending upon said conductors for its support, and an insulating shoulder carried by the base and arranged to prevent the rotation of the circuit controller beyond given points



and to prevent a contact between the separate conductors.

1,920,030. CIRCUIT CONTROLLER. STANLEY S. GREEN, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a Corporation of Illinois. Filed Apr. 23, 1930, Serial No. 446,566. Renewed Dec. 2, 1932. 10 Claims. (Cl. 200—113.)



1. A current-limiting circuit controller comprising a closed casing forming an expansion chamber, an insulating control tube having a bore therethrough communicating with said chamber through its end, a liquid conductor normally filling said bore, a pair of electrodes electrically connected by such conductor in said bore, said bore being of such caliber that the liquid conductor therein will vaporize at a predetermined current load, said tube having at one end an enlarged well through which the bore communicates with the chamber and which receives an electrode, and an insulating flange around the tube at said end.

1,920,031. ELECTRIC SWITCH. STANLEY S. GREEN, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a Corporation of Illinois. Filed May 26, 1930. Serial No. 455,679. 21 Claims. (Cl. 200—113.)

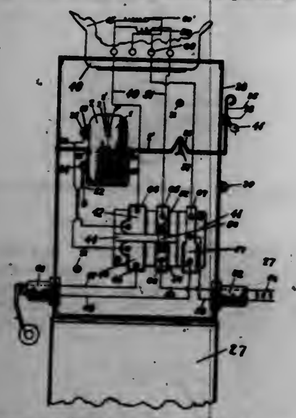


1. An electric circuit controller including a casing; a conduit of heat-resisting insulation within the casing; a liquid conductor within the bore of the conduit; electrodes connectible by the liquid conductor; and metal supporting means within the casing and electrically insulated from the electrodes for fixedly supporting said insulating conduit within the casing.

1,920,032. CIRCUIT CONTROLLER. STANLEY S. GREEN, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a Corporation of Illinois. Filed June 23, 1930. Serial No. 463,174. 4 Claims. (Cl. 200—153.)

4. Circuit controlling apparatus including in combination a rotatably mounted shaft having formed therein a stirrup-like portion, a liquid conductor switch removably mounted on said shaft in said stirrup-like portion, said switch having lugs engaging displaced portions of the stirrup and securing the switch in fixed relation to said

shaft, said shaft having extended seat portions which ex-



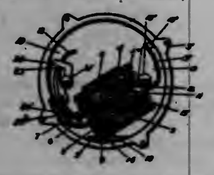
tend into corresponding pockets in said switch to retain said switch in place.

1,920,033. CONTROLLER FOR ELECTRIC CIRCUITS. STANLEY S. GREEN, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a Corporation of Illinois. Filed July 21, 1930. Serial No. 469,333. 21 Claims. (Cl. 200—113.)



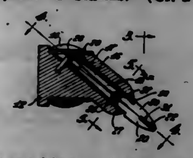
2. The structure of claim 1 wherein a metallic member anchored firmly to one wall of the container comprises the support for the means for insuring the making and breaking of the contact.

1,920,034. CONTROLLER FOR ELECTRIC CIRCUITS. STANLEY S. GREEN, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a Corporation of Illinois. Filed Jan. 26, 1931. Serial No. 511,382. 7 Claims. (Cl. 200—113.)



1. An electric circuit controller including, an insulating casing, liquid conductor carried in said casing, a control unit in said casing including a dielectric current limiting control tube having a metallic feed tube associated therewith and a metallic jacket which reinforces said control tube and secures said feed tube thereto, a pair of electrodes arranged to be connected by liquid conductor in said control unit when the controller is on, the first of said electrodes being associated with said feed tube and the second of said electrodes being at the other end of said control tube and therefore near said reinforcing jacket, said control unit being constructed to vaporize said liquid conductor and discharge it into said container under the influence of excess current, said container being substantially sealed to confine any discharged vapor therewithin where it contacts with said electrodes and other metallic parts, said metallic jacket being insulated from said metallic feed tube and from both electrodes to minimize the chance of arcing between said jacket and said second electrode.

1,920,035. CUTTER BIT AND CHUCK. THOMAS M. STEPHENS, Michigan City, Ind. Filed Feb. 2, 1932. Serial No. 590,468. 4 Claims. (Cl. 279—55.)



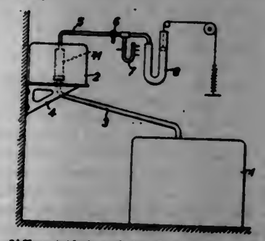
4. In a mining machine, a chuck holder having a socket formed therein, a chuck including a pair of bit-clamping jaws disposed in said socket and each including a substantially flat stem tapered from end to end, each of said jaws including a clamping head at the thicker end of the corresponding stem, a cutter bit including a portion disposable between said heads, and an adjustable member carried by said holder between the ends of said stems having a portion penetrable between said stems to wedge said stems apart at their thinner ends and fulcrum the latter against the wall of said socket to force said heads into clamping engagement with said bit portion.

1,920,036. SWIMMING MACHINE. ELMER E. STONER, Stroudsburg, Pa. Filed July 29, 1932. Serial No. 626,006. 1 Claim. (Cl. 9—18.)



A swimming machine comprising a body having an inclined forward portion and a horizontal rearward portion, propelling means for said machine and having connection with the respective portions of said body for disposal at an inclination, a depending flange included in said body, brackets secured to the flange and provided with openings, curved tube members secured to the brackets, pontoons detachably secured to the tube members, parallel rod members extending rearwardly from the body and detachably secured in the openings of the brackets, a cross rod bridging the rear ends of the parallel rod members, stripe secured across the parallel rod members adjacent the rear ends thereof, a shaft mounted through the stripe for rotation about a vertical axis, and rudders secured to the opposite end portions of the shaft for disposal above and below the rod members.

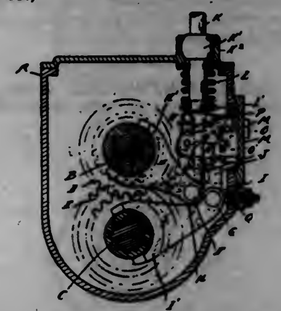
1,920,037. DIFFERENTIAL SAFETY DEVICE FOR TRANSFORMERS AND THE LIKE. KONRAD TÄUBER, Munich, Germany. Filed Aug. 26, 1931. Serial No. 559,548, and in Germany Sept. 1, 1930. 3 Claims. (Cl. 175—294.)



1. A heat differential safety device for oil transformers or other oil insulating electrical apparatus, comprising

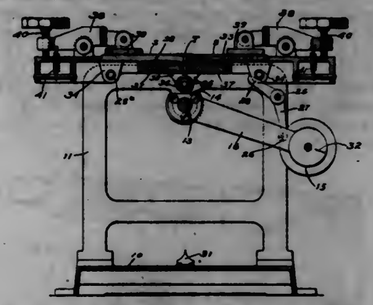
in combination, an expansion vessel, a chamber sealed within said vessel and having apertures establishing communication between said vessel and chamber, a conduit leading from said apparatus and opening in said chamber forming means of communication between the latter and the oil contained in the apparatus, a second conduit communicating with said chamber and extending outwardly of said vessel, and signalling and controlling means associated with said second conduit whereby any irregularities occurring within the insulating oil of said apparatus may be transmitted through said chamber and second conduit to the signalling and controlling means.

1,920,038. TRANSMISSION CONTROL MECHANISM. HORACE T. THOMAS, CLAUDE E. FERGASON, and ALBERT B. HAYS, Lansing, Mich., assignors to Reo Motor Car Company, Lansing, Mich., a Corporation of Michigan. Filed Mar. 30, 1932. Serial No. 602,089. 3 Claims. (Cl. 74—89.)



1. The combination with a variable speed transmission mechanism, of control mechanism therefor comprising a pair of parallelly arranged gear shifters having normally aligned transverse channels therein, a universally rockable lever having its lower end engaging said channels and normally bridging therebetween for simultaneous operation of both shifters, a locking dog pivotally mounted adjacent to one of said shifters and means operated by the transverse movement of said lever disengaging the same from one of said shifters for rocking said locking dog into engagement with the said shifter.

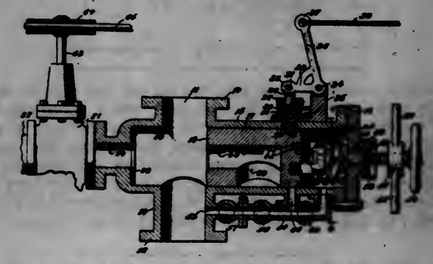
1,920,039. TESTING MACHINE. CHARLES B. THWING, Philadelphia, Pa., assignor to Thwing Instrument Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 16, 1929. Serial No. 378,690. 7 Claims. (Cl. 265—17.)



1. In a testing machine of the character described, opposed normally aligned tables mounted for tilting movement, means for clamping to said tables members the adjacent edges of which are connected by a gummed tape, and means for oppositely tilting the tables to cause separation of said clamping means and thereby place a strain upon the adhesive connection between the tape and said members comprising a pendulum-operated cam and means on the tables at adjacent edges thereof operatively engaging said cam.

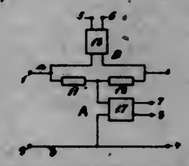
6. In a testing machine, opposed tables mounted on pivots spaced from adjacent edges thereof, clamping means on each table, a pendulum shaft extending beneath adjacent edges of the tables, cam means operated by said pendulum shaft, means on adjacent edges of the tables operatively engaging the cam means whereby to cause tilting of the tables in a direction separating the clamping means when the shaft is rotated in one direction, a pendulum secured to said shaft to rotate the shaft in said direction, and means for indicating the extent through which the pendulum moves.

1,920,040. WELL HEAD CONTROLLER. HENRY VAN HOOYDONK, Fort Smith, Ark. Filed July 29, 1931. Serial No. 553,827. 11 Claims. (Cl. 166—15.)



1. An oil well control comprising a member movable across a well head to close the bore thereof, means in said member for diverting without interrupting the flow upon closing, and means for moving said member to closed and open positions by well pressure.

1,920,041. ELECTRICAL NETWORK. MAURITZ VOS and TORBEN LAURENT, Stockholm, Sweden, assignors to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a Company of Sweden. Filed Nov. 14, 1930, Serial No. 495,746, and in Sweden Nov. 18, 1929. 23 Claims. (Cl. 178—44.)

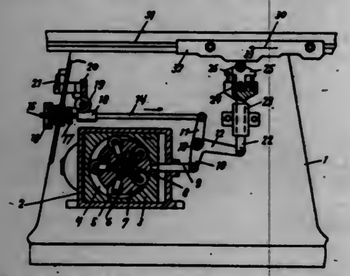


1. An electrical network comprising in combination a filter B having its terminals of the one side connected with one input terminal and one output terminal of the network and including an impedance 11, 12 shunted between said terminals, a quadripole 17 having one of the terminals on the one side connected to a middle tapping on said impedance and the other terminal of the same side connected with one input terminal and one output terminal of the network, the two halves of the said impedance forming two parallel branches of a series impedance of a second filter A including the said quadripole, the mean square of the characteristics of said two filters on the sides at which they are associated with one another being independent of the frequency.

1,920,042. HYDRAULIC DRIVE. FRITZ WALTHER, Plauen, Germany. Filed Oct. 24, 1931, Serial No. 570,940, and in Germany Aug. 19, 1930. 2 Claims. (Cl. 90—21.)

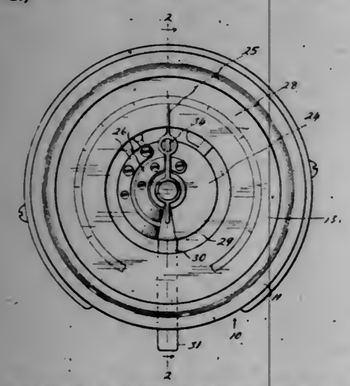
1. A hydraulic drive for the adjustable parts of machine tools comprising a frame, a pump adapted to deliver a pressure medium, a guide sleeve secured to the said frame, an adjustable link connected with the said

frame by the said sleeve and adapted to regulate the delivery of the said pump, cams connected to the machine part to be adjusted, means connecting the said link with the said cams, the said means holding the said link in predetermined positions during the forward and return motion of the machine part, the form of the said cams regulatably determining the speed of the machine part, a slide vertically adjustable to the said sleeve, two op-



positely reversible dogs attached to the top part of the said slide and adapted to alternately effect transmission of motion from a cam secured to the machine part to be adjusted to the said slide, stops for holding the said dogs in position, and means connecting the said slide with the adjustable link, the adjustment of the link for the forward and return motion of the machine part being effected by different cams independently of one another.

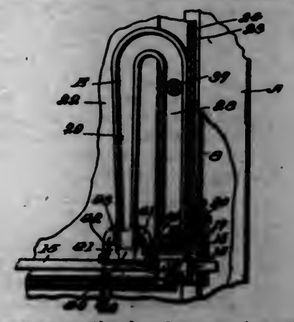
1,920,043. HUMIDOSTAT. CHARLES F. WARRICK, Detroit, Mich., assignor to Whitehead & Kales Company, River Rouge, Mich., a Corporation of Michigan. Filed May 18, 1931. Serial No. 538,307. 10 Claims. (Cl. 297—1.)



1. A laminated hygroscopic element having a hygroscopic section and a non-hygroscopic section united to the section aforesaid and having registering recesses in the contacting faces thereof.

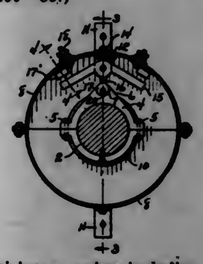
1,920,044. HINGE CONSTRUCTION. JOHN WIEDEMANN, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Nov. 4, 1930. Serial No. 493,374. 2 Claims. (Cl. 16—184.)

1. An improved construction, comprising a hinge member made of a piece of material capable of being flexed and formed into two legs in separated relation, said hinge legs movably mounted, one leg supporting a door and the other leg free to be flexed, a cam arranged in the path of travel of the free leg, said cam normally causing a flexing of the free leg and further causing a continuing and increased flexing of the free leg upon an opening movement of the door, means on said cam for preventing longitudinal movement of the free leg in respect to the



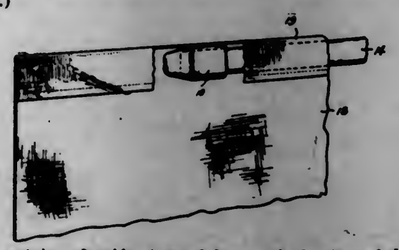
cam, and means on the free leg co-acting with the cam for further preventing longitudinal movement of the member in respect to the cam.

1,920,045. SIGNAL LIGHT SWITCH. ELMER L. WHITE, Detroit, Mich. Filed May 27, 1929. Serial No. 366,496. 1 Claim. (Cl. 200—59.)



A switch comprising a casing including two-semicylindrical detachably connected sections having aligned central openings, a shaft journaled in said openings, brackets supporting the casing with relation to the shaft, a ring of insulating material fixed on the shaft for movement therewith and located within the casing, a nose extension projecting from said ring, a pin supported by said extension and projecting therefrom in parallelism with the shaft, spaced fixed contacts arranged within and supported by one section of the casing at opposite sides of the said nose extension, a bifurcated bracket supported by said section of the casing and insulated therefrom and located between the fixed contacts, a V-shaped movable contact pivoted in said bifurcated bracket above said pin, and a short bifurcated arm depending from the apex of the V-shaped contact and straddling said pin to operate the switch when the shaft is rotated in either direction.

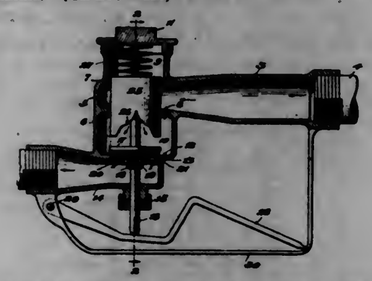
1,920,046. CURTAIN THREADER. RAGNAR WILLIAM WINBERG, East Elmhurst, Long Island, N. Y. Filed July 3, 1930. Serial No. 465,732. 1 Claim. (Cl. 223—38.)



A curtain rod guide stamped from a single piece of sheet metal and including front and rear portions, said front and rear portions being inwardly turned, forming a pocket

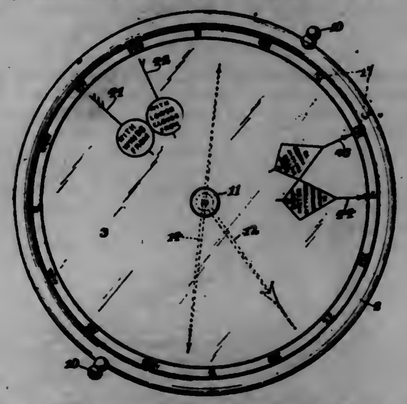
to receive one end of a curtain rod, and terminal contacting portions at one end of said body for guiding said curtain rod between the opposed walls of a curtain hem, and a resilient strip of metal integral with the opposite end of one of said portions and bent inwardly from the rear edge thereof into said pocket, said resilient strip terminating in a tongue extending laterally beyond its side edges to provide a frictional bearing member for contact with a received curtain rod over a comparatively great surface area of the latter.

1,920,047. DISPENSING NOZZLE. JOHN E. ZOERB, Eureka, S. Dak. Filed Apr. 9, 1932. Serial No. 604,234. 4 Claims. (Cl. 277—42.)



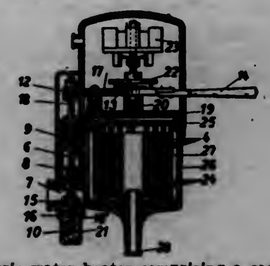
1. In a dispensing device having a casing formed with aligned intake and exit ports in opposite walls, a valve structure comprising a stem reciprocable in said casing, valves on said stem arranged to open said exit-port and thereafter said intake-port on movement of the stem in one direction and to close said intake-port and thereafter close said exit-port on movement in the opposite direction, one of said valves being adjustable longitudinally on said stem with respect to the other, and a spring arranged to impart closing movement to said valves.

1,920,048. COMBINED TYPHOONOSCOPE AND BAROMETER. ALEJANDRO ANARETA, Manila, P. I. Filed Aug. 21, 1928. Serial No. 301,001. 1 Claim. (Cl. 73—151.)



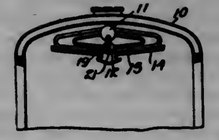
In a typhoonoscope, a barometer including a casing and an indicator therefor, said casing including a rotatable transparent cover through which the indicator may be observed, there being indicia representing the cardinal points exposed through said cover, said casing adapted to be oriented to position said indicia to correspond to the true cardinal directions, said cover being provided with means adapted to be brought into registry with the direction of approach of the prevailing wind, said cover being further provided with direction indicating means bearing a constant relationship to said wind direction indication means and coacting therewith for indicating possible maximum and minimum angles, in accordance with barometric pressure indications of said indicator within certain limits, of the direction of the vortex with respect to the direction of approach of the prevailing wind.

1,920,049. STOP-COCK WITH ELECTRIC HEATER. HERMANN ARBER, Bienne, Switzerland. Filed May 29, 1930, Serial No. 457,343, and in Switzerland Mar. 25, 1930. 6 Claims. (Cl. 219—39.)



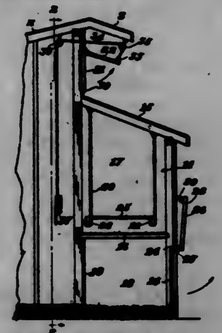
1. An electric water heater comprising a casing having a heating chamber therein, said chamber having a water inlet and an outlet communicating therewith, a valve seat arrangement within said water inlet, a valve for said valve seat, means for controlling the flow of water through said inlet after said valve has been moved from said seat, and means for jointly controlling said valve and said water controlling means.

1,920,050. EVAPORATOR. ALVIN H. BAER, Waynesboro, Pa., assignor to Frick Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed June 4, 1932. Serial No. 615,415. 11 Claims. (Cl. 62—126.)



7. An evaporator comprising an upper and a lower header, laterally bent riser tubes connecting said headers, and insulated tubes connecting the ends of the upper with the ends of the lower header for returning liquid refrigerant from the upper to the lower header, substantially as set forth.

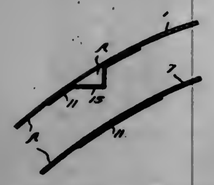
1,920,051. POULTRY HOUSE. CLAYTON W. BARNEY, Clinton, Wash. Filed Sept. 14, 1931. Serial No. 562,790. 3 Claims. (Cl. 119—21.)



1. A poultry house having an extension at the front thereof provided with an inclined roof arranged below the roof of the poultry house, a horizontally disposed open

woven plate dividing said extension into an upper roost compartment and into a lower dropping compartment, a roost in the upper compartment, and the floor of the lower compartment being of dirt, a partition dividing the lower compartment from the poultry house, a screened opening in the outer face of the dropping compartment, a hinged door for covering or uncovering the opening, a screened opening in the front of the poultry house above the extension, and a hinged door for covering, uncovering or partly uncovering said opening.

1,920,052. SEAT CONSTRUCTION. ALBERT P. BALL, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed May 26, 1930. Serial No. 455,821. 2 Claims. (Cl. 155—194.)

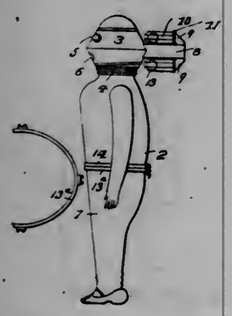


1. In a seat, a pair of side panels having substantially vertically extending embossed portions of substantially V cross section, and a back panel having vertical edge portions secured to said side panels, bridging the embossed portions and forming therewith tubes for stiffening and reinforcing the structure.

1,920,053. PROCESS OF MAKING COPPER HYDROXIDE. HARRY P. BASSETT, Cynthiana, Ky., and JEWETT C. SIMONS, Philadelphia, Pa., assignors to Meigs, Bassett & Slaughter, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 17, 1930. Serial No. 461,848. 3 Claims. (Cl. 23—147.)

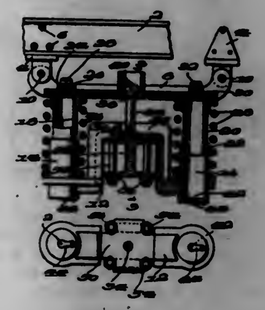
1. The herein described process of preparing copper hydroxide which comprises mixing at a temperature below 10° C. an aqueous solution of copper salt with from 105 to 120% of the theoretical reaction amount of an alkali metal hydroxide in solution, immediately adding glucose to the mass, allowing the mass to stand to permit the copper hydroxide to settle, and separating and washing the precipitated copper hydroxide.

1,920,054. LIFE-SAFETY APPARATUS. ABRAHAM BAUMAN, Santiago, Chile. Filed Nov. 21, 1931. Serial No. 576,593. 5 Claims. (Cl. 9—20.)



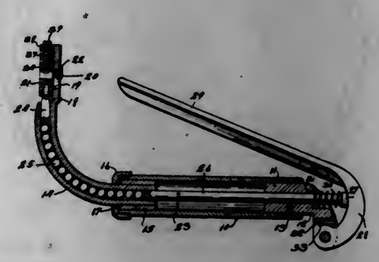
1. In a life-saving suit, the combination of a pair of pants, a floatable band at the upper end of the pants, a jacket, a floatable band at the lower end of the jacket, the aforesaid bands engaging each other, means for securing the bands together, a helmet, flexible means connecting the helmet and jacket, a housing extending from and communicating with the helmet, a compartment extending from and communicating with the housing, said compartment having a horisontal chamber, packing between each chamber and the compartment, and a ball valve in the chamber adapted to gravitate therein toward and from the packing under the influence of the waves when the suit is in use to alternately close the compartment against the admission of water and permit the admission of air.

1,920,055. SHOCK ABSORBER. CHARLES A. BLUHM, Michigan City, Ind. Filed July 27, 1932. Serial No. 625,087. 8 Claims. (Cl. 267—60.)



1. A shock absorber comprising a saddle having an intermediate portion of inverted U-shape for embracing an axle to be secured thereto, and having the lower ends thereof terminating in spring seating portions on opposite sides of said intermediate portion, telescoping shock absorbing cylinders connected with each of said spring seating portions, and helical springs engaging the seating portions and surrounding the telescoping members and normally tending to move said members relative to each other.

1,920,056. WIRE CUTTING AND TWISTING DEVICE. ROBERT W. BRIGGS and FLOYD COLE, Pharr, Tex. Filed Jan. 28, 1933. Serial No. 654,039. 8 Claims. (Cl. (Cl. 140—144.)



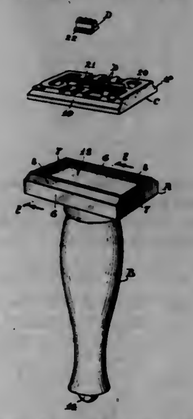
1. A wire cutting and twisting means comprising in combination, a pair of cutting members, a substantially L-shaped handle secured to the members, said handle having one portion thereof movable relative to the other, and clamping means for clamping a wire in a manner to permit twisting of a plurality of strands of wire one about another upon turning of the handle in a circular motion about the clamping means.

1,920,057. COMPOSITE MAT. BUDD BRONSON, Cleveland, Ohio, assignor to The Ohio Rubber Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 4, 1931. Serial No. 542,036. 10 Claims. (Cl. 154—49.)
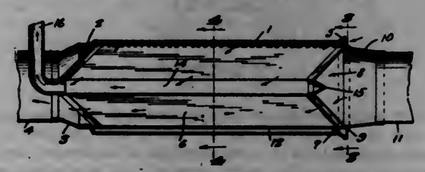


1. A mat comprising a soft rubber tread, and a pad of fibrous material attached to the under surface thereof, said pad being impregnated along edge portions only thereof with binding material.

1,920,058. RUBBER STAMP CONSTRUCTION. FRANK L. BUCK, Freeport, N. Y. Filed June 27, 1930. Serial No. 464,344. 1 Claim. (Cl. 101—405.)



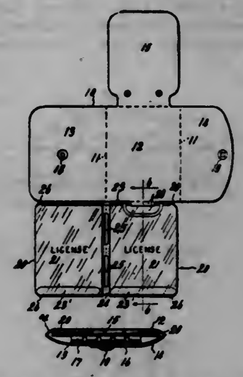
In a rubber stamp, a hollow mount having a closed end and a restricted open end adapted to receive a compressible elastic die member, a handle for said mount having a non-circular axial bore, said mount having a similarly shaped opening in its closed end, a bolt of a cross sectional shape corresponding to and extending through said handle bore and said mount opening with the head disposed within the mount and a nut threadedly engaging the outer end of the bolt which protrudes from the outer end of the handle.

1,920,059. EXHAUST OPERATED HEATER. FRED BUSCHBAUM, St. Louis, Mo. Filed May 16, 1932. Serial No. 611,669. 2 Claims. (Cl. 257—241.)



1. An exhaust operated heater comprising an outer shell having one end opened to the atmosphere to permit air to enter the interior of the shell, a plurality of radially arranged compartments within the shell and supported in spaced relation thereto and each of said compartments being of substantially triangular shape in cross section and said compartments spaced from each other to permit air within the shell to circulate about each compartment, said compartments having their ends opened to permit the exhaust from an engine to pass therethrough, the inner edges of said compartments being circularly disposed to outline a central air passage having one end closed and its opposite end opened to receive a pipe for conveying the heated air to a desired point.

1,920,060. FLEXIBLE POCKET RECEPTACLE. WARNER R. BUXTON, Longmeadow, Mass. Filed July 17, 1930. Serial No. 468,575. 6 Claims. (Cl. 150—35.)
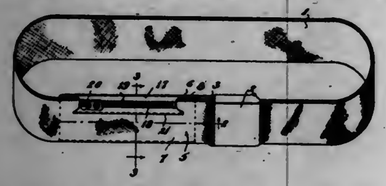


1. A receptacle for keys and license and registration papers, comprising a folder of flexible material having a central section and a pair of flaps hingedly connected one to each side edge thereof together with a third flap hingedly connected to one end edge of said section and normally superposed on the latter, key-holding means carried by the outer face of the third flap, a pair of containers each having closely spaced front and back walls and connecting side walls, said front and back walls being at least in part of transparent material and of an area no greater than that of said section, said containers serving between them to receive license and registration papers placed back to back, said containers being hingedly connected along adjacent end edges to enable them to be superposed and one of the containers having one side wall hingedly connected to the other end edge of said section, said containers when superposed being foldable along the last-named hinge connection into superposed relation with said section and positioned beneath said third flap to be concealed and protected thereby, said flap with the weight of the key holding means thereon tending to hold the superposed containers in place between its inner face and said section.

6. In combination, a pair of containers each constructed of transparent material and in the form of a flattened-down open-ended tube, and a thin strip of flexible material extending loosely through each container between the walls thereof and completely encompassed thereby, said containers being slidably mounted for movement longitudinally of the strip to enable an open end of one container to move toward or away from the adjacent open end of the other container, and interchangeable means on said strip and each container to limit the extent of movement of the containers away from each other.

1,920,061. BATHING BELT. WILLIAM V. CARR, Charlestown, Mass. Filed Aug. 17, 1931, Serial No. 557,663. Renewed Feb. 6, 1933. 6 Claims. (Cl. 241—8.)

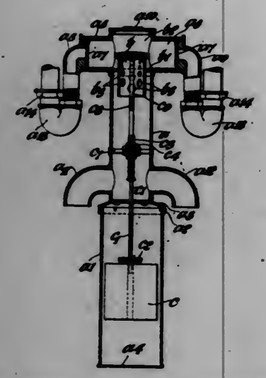
1. A belt having a loop of substantially the same width as the belt and provided with inner and outer plies, a

pocket mounted between the plies of the loop and open at its top, means to close the open top of the pocket



and exclude water therefrom, and a fastening device adjustably connecting the ends of the belt.

1,920,062. LIQUID DEPTH REGULATOR FOR BATHS, TANKS, AND THE LIKE. SANTOS CASANI, London, England. Filed Mar. 17, 1932, Serial No. 599,422, and in Great Britain Mar. 7, 1931. 2 Claims. (Cl. 137—104.)



1. A liquid depth regulator for tanks and the like, comprising an inlet chamber and an outlet chamber having a connecting opening, a valve adapted to close said opening, a float controlled by the liquid level beneath said outlet chamber, a double-sided vertically movable rack connected to said float, a plurality of pinions cooperating with said rack, and a vertically movable forked member connected to said valve and having teeth on its inner sides adapted to cooperate with said pinions.

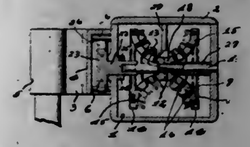
1,920,063. PROCESS FOR WEIGHTING NATURAL SILK. RENÉ CLAVEL, Basel, Switzerland. Filed Nov. 11, 1929, Serial No. 406,527, and in Germany Mar. 16, 1929. 7 Claims. (Cl. 8—13.)

1. A process for weighting textiles containing natural silk, comprising the steps of treating the material with a metallic salt solution, freeing it from excess thereof and then introducing it without washing, deacidification or neutralization directly into a bath containing an acid phosphate of a fixed alkali, and finally neutralizing the material.

2. A process for weighting natural silk, comprising the step of treating the material with a metallic salt solution, freeing it from excess thereof and then introducing it without washing, deacidification or neutralization directly into a bath containing an acid phosphate of a fixed alkali, and finally neutralizing the material.

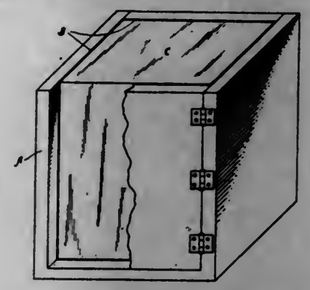
1,920,064. CLEANING DEVICE FOR GOLF BALLS OR THE LIKE. STUART A. COGSDILL, Detroit, Mich., assignor to Cogsdill Manufacturing Company, Detroit, Mich., a Co-partnership composed of Stuart A. Cogsdill and Florence May Cogsdill. Filed Mar. 19, 1930. Serial No. 437,122. 2 Claims. (Cl. 15—21.)

1. In a cleaning device for golf balls or the like, the combination of a rotatable shaft having a threaded portion intermediate its ends, a pair of brush members threaded upon the threaded portion and cooperating to embrace a



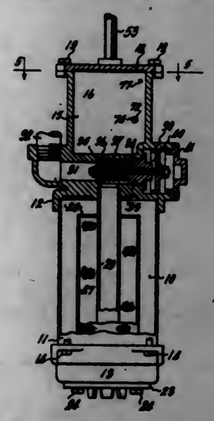
ball, and means for preventing the movement of the brush members longitudinally of the shaft.

1,920,065. METHOD OF SURFACE FINISHING ARTICLES MADE OF HYDRAULIC CEMENT MIXTURES. PUTNAM DAVIS, New York, N. Y. Filed Oct. 10, 1932. Serial No. 637,201. 7 Claims. (Cl. 25—154.)



6. The method of producing glossy enamel-like surfaces on articles formed of hydraulic cement mixtures, which comprises casting the mixtures in contact with surfaces coated with a bituminous material.

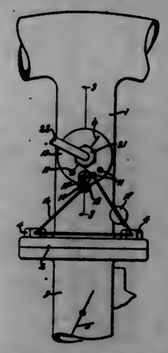
1,920,066. AIR SEPARATOR. WARREN H. DE LANCEY, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a Corporation of Massachusetts. Filed May 31, 1932. Serial No. 614,314. 2 Claims. (Cl. 183—2.5.)



1. A separator, comprising, a container provided with a main separating chamber and above said chamber two auxiliary chambers, the first of which is in constant communication with the main chamber and the second of which has constant but restricted communication with the first, means for venting the second chamber to the atmosphere, a liquid drain for the second chamber, a separating

element in said main chamber, a liquid inlet and a liquid outlet from said main chamber communicating therewith on opposite sides of said element, a valve controlling said liquid outlet and held closed by the fluid pressure in the main chamber, fluid pressure actuated means for opening said valve against said pressure, a float in the first auxiliary chamber and means operable by the rise and fall of said float to admit or cut off the flow of fluid under pressure to said valve opening means.

1,920,067. MOTOR GOVERNING DEVICE. DAVID J. DOLAN, Cleveland Heights, Ohio, assignor to The Cardel Company, Inc., Chester, Pa., a Corporation of Delaware. Filed Nov. 14, 1931. Serial No. 574,992. 4 Claims. (Cl. 137—111.)



1. In a fuel supply system for an internal combustion engine including an inlet manifold and a carburetor, bolt means adapted to secure said carburetor with said manifold, a valve in said manifold, means for securing said valve in a selected one of a plurality of adjusted positions, and means associated with said securing means for sealing the valve in any of said positions, said sealing means including an external member associated with said bolt means to prevent turning of the latter.

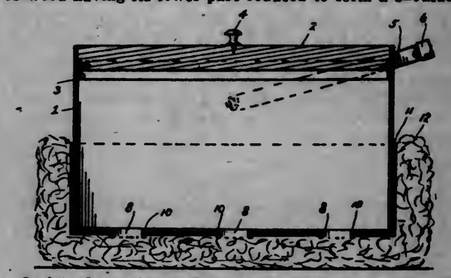
1,920,068. CLOSURE WITH VALVE FOR BOTTLES OR THE LIKE. ARTHUR J. ELIAN, Jr., Mexico, Mexico. Filed Aug. 1, 1931, Serial No. 554,554, and in Mexico June 12, 1931. 6 Claims. (Cl. 215—56.)



1. A valved closure for bottles and the like which will permit the passage of gas through the closure in one direction after it has been applied, comprising a cap, a tubular element having one end open and the other end closed, an annular flange surrounding the open end, said tubular element being positioned in the cap with the annular flange lying against the inner face of the top of the cap and adapted to lie between this face and the rim of the bottle when the cap is applied on the bottle, the closed end of the tubular element and the central portion of the cap being provided with apertures, and a valve body loosely positioned in the tubular element adapted to close one of the apertures.

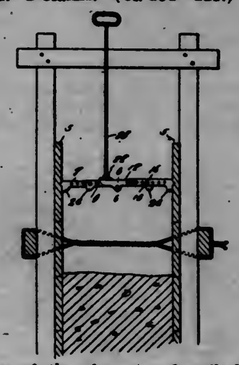
1,920,069. WAXING DEVICE. HERBERT L. ENDLY, Emporia, Kans. Filed July 30, 1932. Serial No. 626,805. 1 Claim. (Cl. 91—39.)

A waxing device comprising a casing open at its top and having holes in its bottom, a flange surrounding each hole and depending downwardly, a strip of sheep skin having the skin part attached to the bottom of the casing and the lower portion of the sides of the casing, said skin having holes therein the walls of which fit over the flanges, whereby the wax passing through the holes in the casing will saturate the wool of the skin, a cover formed of a block of wood having its lower part reduced to form a shoulder,



a flexible flange fastened to the shoulder and frictionally engaging the upper portions of the walls of the casing when the cover is placed therein, and a handle connected with the casing.

1,920,070. WALL SPACER FOR CONCRETE FORMS. REN L. FRIST, Dana, Ind. Filed July 3, 1931. Serial No. 548,681. 2 Claims. (Cl. 254—123.)



1. A device of the character described comprising a pair of pivoted sections, each of which include a pair of channel shaped members telescopically engaged one with the other, means for securing the telescoped members in adjusted position relative to one another, and each of said members having the sides at one end thereof provided with integral depending projections forming abutments and being also provided with pointed nibs extending longitudinally from said sides.

1,920,071. LIFE PRESERVER. FRANCESCO S. GENOVESE, Jamaica, N. Y. Filed May 13, 1932. Serial No. 611,176. 2 Claims. (Cl. 9—17.)

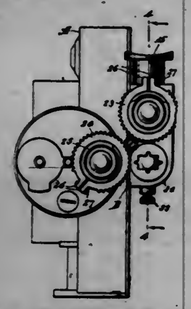


1. A life preserver comprising a belt section formed from a plurality of plates, means for hingedly connecting the plates together, each plate having an aperture therein, a hollow metallic float mounted on each plate, each float having an apertured ear extending through the aperture in the plate, and a ring mounted in the apertured ear for locking the float in position.

1,920,072. REMOVABLE EXPOSURE AND FOCUSING DEVICE FOR CAMERAS. ABRAHAM J. GINSBERG, New York, N. Y. Filed Oct. 27, 1928, Serial No. 315,461. Renewed June 13, 1933. 4 Claims. (Cl. 95—44.)

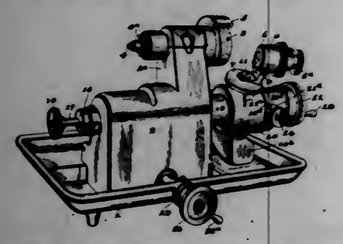
1. A principal lens system, a revoluble barrel containing the system having associated means for axially moving

the barrel and system for focusing during revolution, a view-finder comprising a lens system, a revoluble barrel containing said lens system having associated means for axially moving the barrel and system for focusing during revolution, an eye piece having an objective for intercepting the image formed by the view-finder lens system,



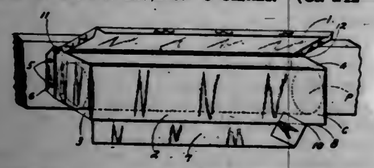
a gear on each lens barrel, and a connecting idler pinion arrangement causing rotation of the barrels, split rings on which the gears are formed providing for ready application of the gears to their respective lens barrels and for adjustment of the gears along the barrel, a split ring carrying an idler pinion.

1,920,073. GRINDING MACHINE AND THE LIKE. GEORGE GORTON, Racine, Wis. Filed July 10, 1930. Serial No. 467,092. 17 Claims. (Cl. 51—125.)



1. A cutter grinder embodying a rotary grinding member; a collet for removably holding the cutter in operative relation to said member; a carrier for said collet, said collet provided with a manipulating handle accessible from the operator's position; said carrier including a rotatable sleeve and a bracket upstanding from said sleeve approximately radially thereof and rotatably adjustable thereon, said bracket having a top head in which said collet is rotatably mounted; and feed mechanism for said sleeve for carrying the collet toward and from said grinding member, said feed mechanism having manual operated actuating mechanism with operating means accessible from the operator's position, said feed mechanism including a longitudinally arranged slide for said sleeve and on which the same is mounted for rotatable adjustment.

1,920,074. CONTAINER. FRED C. GLUCK, Minerva, Ohio, assignor to The Coated Paper Products Company, Minerva, Ohio, a Corporation of Ohio. Filed Oct. 8, 1930. Serial No. 487,249. 6 Claims. (Cl. 242—55.5.)



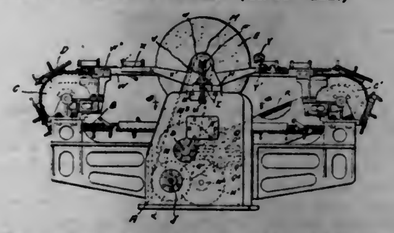
1. A dispensing container for a paper roll adapted to be attached to a wall surface having a front wall and integrally formed end walls, said end walls having inturned lips in the lower portions thereof comprising the sole support for the paper roll and engaging the exterior surface of the ends thereof, said lips being spaced from the said front wall to permit the passage of paper between the edges of the lips and said front wall, and said lips being inclined downwardly and forwardly to hold said roll of paper in contact with said front wall.

1,920,075. CARTRIDGE FOR GUNS AND ORDNANCES. WILHELM HABNICHEN, Berlin, Germany. Filed Dec. 16, 1932, Serial No. 647,683, and in Germany Aug. 15, 1931. 7 Claims. (Cl. 102—12.)



6. A cartridge for guns and ordnances, comprising, in combination a shell and an ignition tube arranged centrally in the shell, consecutive layers consisting partly of nitrogenous powder of such compositions that the combustion speed increases in the direction from the front end of the cartridge to the rear end of the same, partly of perforated layers of salt, and partly of intermediate layers of an elastic nitrogenous lacquer interposed between said other layers, substantially as set forth.

1,920,076. MACHINE FOR TRUING TILE. ALBERT HAPPEL, Toledo, Ohio, assignor, by mesne assignments, to United States Quarry Tile Company, Parkersburg, W. Va., a Corporation of Delaware. Filed Aug. 20, 1927. Serial No. 214,323. 3 Claims. (Cl. 51—112.)



1. In a machine for truing tile, the combination with means for intermittently advancing a series of tile, of a pair of grinder wheels disposed upon opposite sides of the advancing means and engageable with opposite edges of the tile for finishing the same, tracks for supporting the tile adjacent the edges to be ground, trimmers positioned upon said tracks for trimming the corners of the tile after the grinding operation, and common means for adjusting said grinder wheels, tracks and trimmers as a unit to accommodate tiles of various widths.

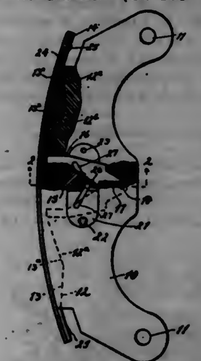
1,920,077. ROTARY BRUSH. WILLIAM HANELT, Chicago, Ill. Filed Sept. 8, 1931. Serial No. 561,741. 3 Claims. (Cl. 15—104.12.)

1. A device of the character described, comprising a fluid pressure operated turbine including a rotor provided with a fluid outlet, a tubular fluid-conducting member attached to said rotor, said tubular member having a fluid inlet communicating with said outlet, and said tubular member being provided with a fluid outlet, a cap member for de-



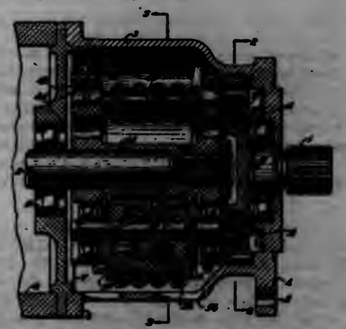
tachable connection to said tubular member at the last-named outlet, said cap member being provided with apertures for communication with the tubular member, and cleaning elements swingingly mounted on said cap member.

1,920,078. MOTOR VEHICLE BRAKE. HERBERT HARGREAVES, Philadelphia, Pa., assignor to John Warren Watson, Philadelphia, Pa. Filed Sept. 8, 1931. Serial No. 561,529. 10 Claims. (Cl. 188—140.)



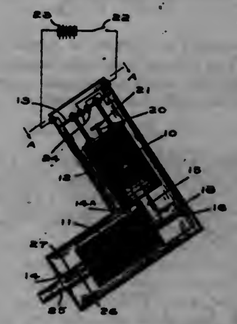
1. In a brake mechanism, a brake shoe and a shoe seat each having inclined complementary surfaces thereon arranged to slidably bear against each other with relative movement of the shoe with respect to the seat when a braking force is applied to the seat, and means for returning the shoe to its normal position with respect to the seat when the braking force is released.

1,920,079. DRIVING MECHANISM. CLINTON H. HAVILL, South Orange, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a Corporation of New Jersey. Filed Mar. 6, 1931. Serial No. 520,680. 7 Claims. (Cl. 74—34.)



1. In a device of the character described, a driving member, a driven member, means for maintaining driving relation between said members to cause rotation of said driven member at a predetermined speed, said means including a gear train interposed between said driving and driven members, said gear train comprising a driving gear and a second gear constantly meshed with said driving gear but rotatable relatively to said driving gear and a third gear constantly meshed with said second gear but out of the line of torque transmission, and means including a friction device acting to restrain rotation of said second gear about its own axis as long as the speed of rotation of said driving gear remains below a predetermined limit.

1,920,080. ELECTROGRAVITY LOCK. ARTHUR EDWARD JENKINS, Timmins, Ontario, Canada. Filed June 14, 1932. Serial No. 617,205. 3 Claims. (Cl. 70—50.)



1. In a lock of the class described, a casing, a primary magnetic coil mounted in said casing, a core slidably mounted within said coil, a secondary magnetic coil mounted within said casing at right angles to said primary coil, a core slidably mounted within said secondary coil having one end adapted to normally extend beyond said casing, the opposite end of the core having a recess adapted to be engaged by the end of the core of said primary coil to hold the core of the secondary coil in its extended position, a circuit for said primary coil, a circuit for said secondary coil, and means operable by the core of the primary coil to close the circuit of the secondary coil, when the core of the primary coil is retracted.

1,920,081. LAMINATED RIGID STRUCTURAL MATERIAL. ROBERT JOHN, New York, N. Y. Filed June 2, 1933. Serial No. 674,061. 7 Claims. (Cl. 154—50.)

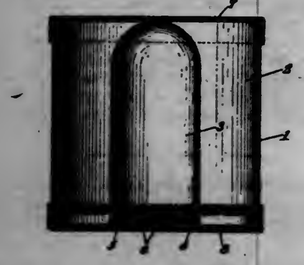


1. A laminated structure adapted for retaining liquids such as oils comprising a grease-proof inner flexible film of parchmentized material of a character offering small side wall retention for liquids contacting therewith, an intermediate bulky, fibrous lamination possessing high grease and water absorptive characteristics adhered to said parchmentized film and an outer lamination of substantially water repellent character adhered to said intermediate lamination.

1,920,082. CONTAINER FOR REFRIGERANT. WALTER S. JOSEPHSON, Brooklyn, N. Y., assignor to Dryice Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Dec. 31, 1929. Serial No. 417,687. 2 Claims. (Cl. 62—91.5.)

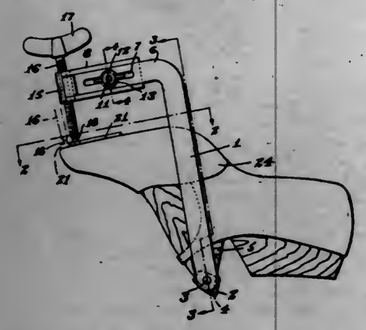
1. A method of refrigerating at moderate relatively high, relatively constant temperatures, which method includes absorbing heat through the walls of a container and applying it to effect phase changing action of low melting point solid carbon dioxide intimately associated with relatively high temperature phase changing moisture, thereby

depositing an insulating, moderate-temperature blanket of frozen moisture on the solid as it passes from its interior, variably heating the exterior surface of said con-



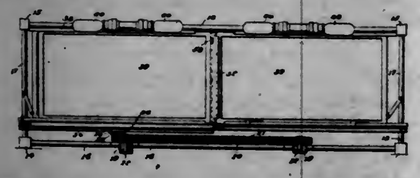
tainer by enclosing a product to be refrigerated in contact with said surface, thereby removing moisture from the surface of said blanket at rates varying automatically with variations in heat applied by the product.

1,920,083. SHOE BOTTOM TREATING DEVICE. JACOB S. KAMBORIAN, Watertown, Mass., assignor to Northern Machine Co., Inc., Boston, Mass., a Corporation of Massachusetts. Filed Sept. 26, 1930. Serial No. 484,553. 17 Claims. (Cl. 12—107.)



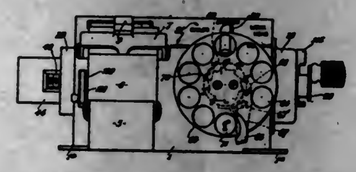
1. A device of the kind described, comprising a substantially L-shaped frame, a pivoted cup at the end of one arm of the frame, a bracket on the other arm of the frame, a threaded stem carried by said bracket, a plate adapted to bear against a shoe bottom, said plate comprising two pivoted sections, and means to clamp said threaded stem against said plate.

1,920,084. CHANGEABLE EXHIBITOR. ALBERT JOHN KAUFFMAN, New York, N. Y., assignor to Trans Ad Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 5, 1931. Serial No. 579,273. 7 Claims. (Cl. 40—36.)



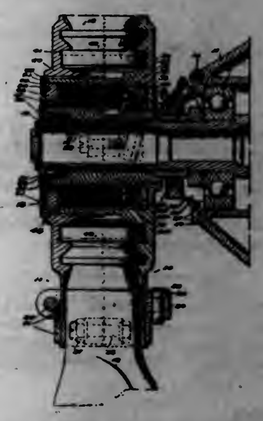
1. In a changeable exhibitor, a table equipped with indicia bearing cards, a carriage on the table, and means engaged with the carriage for moving the same, and a detachable block operatively connecting said carriage and means.

1,920,085. MACHINE FOR ISSUING TICKETS. FRANK EDWARD LANGDON, Carshalton, England. Filed Oct. 29, 1931, Serial No. 571,886, and in Great Britain Nov. 14, 1930. 6 Claims. (Cl. 235—81.)



1. A ticket issuing machine, comprising a ticket-strip magazine, a rotary printing drum adjacent said magazine, a printing die in said drum, said printing die having a plurality of printing faces and being movable in said drum to present any of said faces at the periphery of said drum and said drum being operable at each revolution to impress the printing face of said die disposed at its periphery to the ticket strip coming from said magazine and to deliver said ticket, a disc rotatably mounted on the exterior of said machine and having a plurality of finger holds, means operative by the rotation of said disc to different extents in one direction to selectively move the printing faces of said die into printing position at the periphery of said drum, and a finger stop associated with said rotatable disc and against which a finger engaging any of said finger holds will bear when said disc is partially rotated.

1,920,086. PROPELLER. RAYMOND P. LANSING, Montclair, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a Corporation of New Jersey. Filed Sept. 17, 1929. Serial No. 393,271. 15 Claims. (Cl. 170—177.)



1. In apparatus of the class described, the combination of a rotatable shaft, a plurality of blades, means for yieldably connecting said blades to said shaft, said means including a plurality of interleaving annular disks, concentric with said shaft and drivably connected alternately to said blades and said shaft, and means for causing said shaft to drivably rotate said blades only after said shaft has rotated through an arc of predetermined length.

1,920,087. LACE ATTACHMENT FOR FLAT KNITTING MACHINES. KARL RICHARD LIEBERKNECHT, Oberlungwitz, Germany. Filed Aug. 1, 1930, Serial No. 472,269, and in Germany Feb. 24, 1930. 2 Claims. (Cl. 66—96.)

1. In a flat knitting machine, a pattern position and transferring device for effecting lace work designs comprising in combination, a threaded spindle, a nut working on

the threaded portion of the spindle, a supporting arm connected to the nut, a lace rod to which the supporting arm is attached, a ratchet wheel on said spindle, a double rack adapted to intermittently mesh with either side of said ratchet to effect a lateral shifting of said nut and said lace rod, a cam shaft parallel with the spindle, a cam on said shaft, a tensioned lever pivoted on the machine



and carrying a roller working on the cam, said lever being operatively connected with the double rack for reciprocation of said double rack, a pair of smaller cams on the cam shaft adapted to intermittently bring one of said racks into meshing engagement with the ratchet wheel and a stepped stop shiftably mounted in the path of movement of the tensioned lever for regulating the thrust movement of said rack.

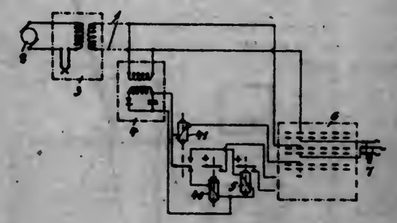
1,920,088. SHOE FASTENING. ANDREW LOVE, Paddington, New South Wales, Australia. Filed June 10, 1932. Serial No. 616,553. 1 Claim. (Cl. 24—267.)



Shoe fastening means, comprising a pair of metal rods each consisting of a tubular part and a solid part slidable in the tubular part, said rods being loosely hinged together at one end and equipped with means for mutually and releasably engaging their other ends, stop lugs limiting the length adjustability of the rods in one direction, and a plurality of elastic members for connecting one of said rods to eyelets in one side of a shoe front and the other rod to eyelets in the other side of the shoe front.

1,920,089. TELEPHONE SYSTEM. TORSTEN ADIL LUNDELL and TORBERN LAURENT, Stockholm, Sweden, assignors to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a Company of Sweden. Filed Apr. 13, 1931, Serial No. 529,812, and in Sweden Jan. 22, 1929. 5 Claims. (Cl. 179—16.)

1. In a telephone system in combination, a transmission line, means for transmitting signalling currents of voice frequency over said line, a signal receiver, means associated with said receiver and responsive to signals of predetermined minimum length for changing the condi-



tion of said receiver from a higher to a lower degree of selectivity so as to make the receiver responsive to rapid signal impulses.

1,920,090. HEAT TREATMENT FOR ALUMINUM BASE ALLOYS. ALFRED J. LYON, Mount Clemens, Mich., and SAMUEL DANIELS, Dayton, Ohio. Filed June 9, 1926. Serial No. 114,829. 17 Claims. (Cl. 148—21.1.)

1. The process of treating aluminum base alloy containing aluminum from 89 to 97 percent, copper 2 to 11½ percent and free from silicon except as an impurity, comprising, heating the alloy for more than 3½ hours at a temperature of between 900 and 1025° F., quenching, aging to about 400° F. for about one hour, and again reheating to about 500° F. for more than ½ hour.

1,920,091. ASH RECEPTACLE. JESSE F. MADDEN, Rockville Center, N. Y. Filed May 28, 1932. Serial No. 614,267. 7 Claims. (Cl. 131—51.)

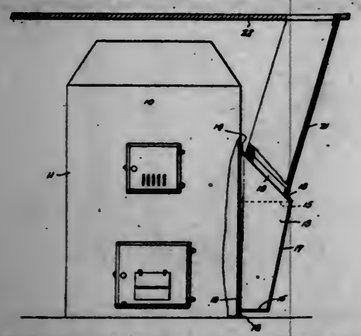


1. An article of the character described having a comparatively large upper section for a beverage receptacle; an intermediate section of reduced size and internally recessed for an ash receptacle; and a broad base section for normally supporting the device in a vertical position, said upper section being made progressively larger from its bottom to its top and open at its top to form said section into a drinking cup from which the contents will be drained before the article is brought to the horizontal position, said recess of the intermediate section opening laterally outward through the wall of said section at the upper end of said recess and being closed at the lower end thereof; whereby when the device is moderately tipped in drinking therefrom, the ashes will not be dumped from the ash receptacle; and whereby the ashes can never be dumped therefrom except by tilting the device more than is ordinarily done in drinking from the cup.

1,920,092. COLD AIR BOOT. BENJAMIN J. MANCUSO, Batavia, N. Y. Filed Dec. 29, 1928. Serial No. 329,171. 5 Claims. (Cl. 126—99.)

1. A cold air boot for hot air furnaces, comprising a metallic box-like member of greater cross area at the top

than at the bottom, and having a flanged open side for attachment to a furnace casing, said boot having an air



inlet at the top disposed in a plane inclined with respect to the horizontal.

1,920,093. METHOD OF PRODUCING A GLASSIFIED SURFACE. NICHOLAS MARRA, Woodside, N. Y. Filed Aug. 24, 1931. Serial No. 559,119. 3 Claims. (Cl. 91—70.)

1. The method of finishing a building wall which consists in applying to the wall a solution consisting of a mixture of soap and lime, and thereafter ironing the wall with a heated implement to produce a glassified surface.

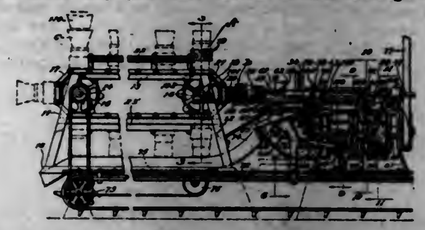
1,920,094. METHOD AND APPARATUS FOR GENERATING AND USING HIGH PRESSURE. JAMES W. MARTIN, Jr., Yonkers, N. Y., assignor, by mesne assignments, to Dryice Equipment Corporation, New York, N. Y., a Corporation of Delaware. Filed May 19, 1928. Serial No. 279,000. 2 Claims. (Cl. 254—93.)



1. A jack, including cylinder and piston affording a closed space for a fluid pressure medium behind said piston, constructed and arranged so that said space may be substantially filled with frozen carbon dioxide in rigid cake form, and a manually controlled outlet from said space whereby the pressure may be vented to control operation of the piston under load.

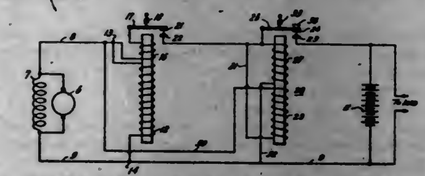
1,920,095. CITRUS FRUIT TREATING MACHINE. THADDEUS D. MCCALL, Imperial, Calif. Filed June 12, 1931. Serial No. 543,756. 8 Claims. (Cl. 146—6.)

1. A fruit peeling machine, comprising an endless conveyor, a chuck carried thereby and adapted to grip an article of fruit incident to its peeling, means acting to cause said gripping action as the chuck advances to the peeling station, an intermittent drive for said conveyor whereby the chuck will come to rest momentarily at said peeling station, a cylindrical cutting knife adapted to reciprocate in synchronism with said conveyor when the chuck with its fruit reaches the peeling station whereby said knife may pass into the chuck and through the



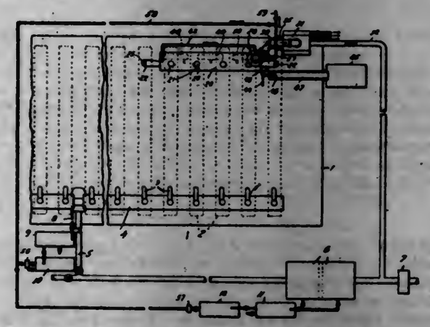
fruit to remove a band or ring therefrom, means releasing said fruit, and cutting means subsequently operating to sever the unpeeled ends from the fruit.

1,920,096. CIRCUIT CONTROLLING MECHANISM. CHARLES I. MCNEIL, Bloomfield, N. J., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J., a Corporation of New Jersey. Filed May 25, 1932. Serial No. 613,501. 2 Claims. (Cl. 171—313.)



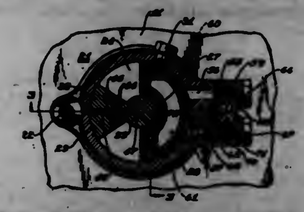
1. In a device of the class described, in combination with a generator and a battery both connected across a main circuit adapted to feed an external load, a reverse current controlled switch located in said main circuit, a manually closable switch in series with said first named switch and control means responsive to an opening of said first named switch to operate upon said second switch for maintaining said circuit open as long as the generator voltage remains below the predetermined value at which said first named switch is opened, said control means comprising a solenoid having opposing windings, one of which tends to close said switch and the other of which tends to render the first ineffective, said last named winding being in shunt with said first named switch.

1,920,097. DISTILLATION OF TAR, ETC. STUART PARMELEE MILLER, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 18, 1928. Serial No. 326,769. 20 Claims. (Cl. 202—64.)



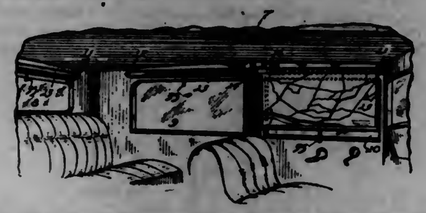
2. The method of distilling a hydrocarbon liquid by means of a hot gas that is at a temperature at which rapid decomposition of the hydrocarbon occurs, which comprises introducing the hydrocarbon into a still having a rapidly rotating spray roll of substantially circular cross-section, maintaining in the still a body of the hydrocarbon liquid of such depth that said spray roll dips therein, introducing the hot gases into the still, repeatedly spraying the hydrocarbon into the gases by rapidly rotating the spray roll, the axis of rotation being substantially parallel to the surface of the body of liquid, controlling the rotation of the spray roll and the introduction of the hydrocarbon liquid so that the spray produced is of sufficient volume and intensity that the gases are rapidly cooled to a temperature below that at which rapid decomposition of the hydrocarbon occurs and the inner surfaces of the still are continuously flushed with hydrocarbon liquid so that the accumulation of material on these surfaces is prevented.

1,920,098. HYDRAULIC SHOCK ABSORBER. ALFRED MOORHOUSE, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed July 16, 1928. Serial No. 293,125. 14 Claims. (Cl. 188—89.)



1. A shock absorber comprising a casing having a working chamber, a piston movable in the working chamber, the casing having passages communicating with the working chamber, the passages being adapted to receive fittings whereby the shock absorber may be adapted for interconnected or separate operation.

1,920,099. COMBINED SHADE AND GUIDE MAP. JOSEPH MORICCA, Olean, N. Y., assignor of forty-nine per cent to Peter Lisa, Carmelo Reitano, and Liberatore Fraterangelo, Olean, N. Y. Filed June 17, 1931. Serial No. 545,091. 2 Claims. (Cl. 156—10.)



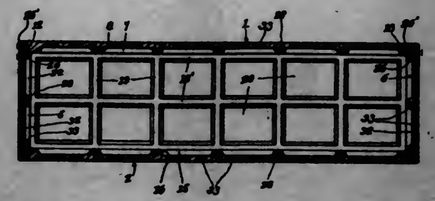
1. In a device of the character described, a shade roller provided at its ends with outwardly spring pressed plungers, one terminating in a trunnion and the other in a gudgeon, the first named plunger having a slidable and non-rotatable connection with the roller, and torsion spring means connecting the inner ends of the plungers.

1,920,100. SYNTHETIC RESIN AND METHOD OF MAKING THE SAME. WILLIAM HENRY MOSS, Cumberland, Md., assignor to Celanese Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Oct. 21, 1927. Serial No. 227,871. 7 Claims. (Cl. 260—3.)

1. Process of producing a synthetic resin comprising reacting a crystallizable condensation product of a ketone and phenol with a ketone in the presence of a condensation-promoting catalyst until condensation takes place and then reacting the resulting resin with an aldehyde in the presence of a condensation promoting catalyst.

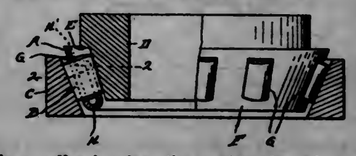
4. A diphenylolpropane-ketone aldehyde resin substantially identical with that obtained by the condensation of a diphenylolpropane-ketone resin with an aldehyde.

1,920,101. BURIAL VAULT. GEORGE E. NAGEL, Columbus, Ohio. Filed Mar. 4, 1932. Serial No. 596,840. 6 Claims. (Cl. 72—7.)



3. In a burial vault formed of a series of concrete assembly units, each unit having its inner face provided with two sets of spaced ribs, the ribs of one set extending at right angles to and intersecting the ribs of the other set, a set of spaced centrally apertured chairs embedded in each of the ribs of one set, each chair formed with tapered portions to provide corner points, a plurality of the points of each chair flush with one face of the rib in which the chair is embedded, and a reinforcing bar extending through the apertures of the chairs of each set.

1,920,102. ROLLER BEARING AND METHOD OF MAKING THE SAME. NICHOLAS J. NOLAN, Detroit, Mich., assignor to Advance Stamping Company, Detroit, Mich., a Corporation of Michigan. Filed May 23, 1932. Serial No. 613,044. 4 Claims. (Cl. 29—84.)



1. In a roller bearing, the combination of a series of rolls having their axes converging to a common point, of a race member having a portion for receiving radial load from said rolls and a portion forming an end thrust bearing for the rolls, and a cage having bearings for engaging each of said rolls to align the same, said cage being so proportioned as to initially hold said rolls out of contact with said end thrust bearing whereby the contacting of said end thrust bearing with the rolls under load will place said aligning bearings under tension.

1,920,103. WELL TOOL. HERBERT C. OTIS, Shreveport, La. Filed Dec. 1, 1930. Serial No. 499,372. 15 Claims. (Cl. 166—2.)

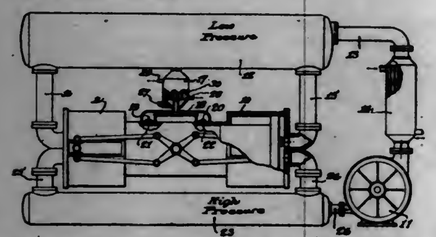
1. In a well tool comprising an obstructive device adapted to be placed in the tubing of a well, the combination of a mandrel including a frusto-conical section and an integral axially aligned cylindrical section, an expansible gripping element slidable longitudinally on said conical section, a carrier slidably longitudinally on said cylindrical section, means operatively connecting said carrier and said expansible element, said gripping element being adapted under relative longitudinal movement between the mandrel and said carrier to be expanded by said conical section into gripping contact with the inner surface of the well tubing, packing means between the mandrel and the said inner surface of the tubing to prevent passage of fluid through the tubing around the outside of said obstructive device, said mandrel having a longitudinally extending opening for permitting a flow of fluid through said

obstructive device, and a bushing removably disposed in the longitudinal opening of the mandrel and having a bore



of smaller area than and communicating with said opening for restricting the flow of fluid through said longitudinal opening.

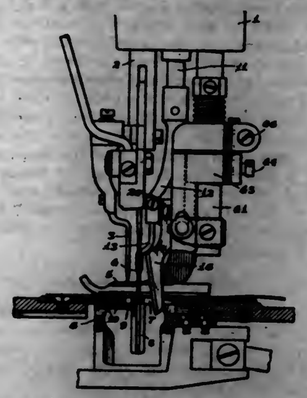
1,920,104. FLUID TRANSMISSION SYSTEM. RAUL PATERAS PESCARA, Paris, France. Filed June 2, 1927, Serial No. 195,982, and in France June 21, 1926. 1 Claim. (Cl. 60—19.)



In a power transmission system employing a gas compressor worked directly by internal combustion and having a piston moving freely in a cylinder, and a closed circuit containing an inert gas, a high pressure tank into which the compressor feeds, a low pressure tank from which the compressor takes its supply, a fluid motor fed from said high pressure tank and exhausting into the low pressure tank, that portion of the cylinder in which the combustion takes place having outlet apertures and passages leading from said apertures to the low pressure tank, and non-return valves associated with said apertures and passages whereby the desired pressure in the closed circuit is maintained.

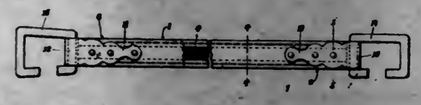
1,920,105. FOOT AND CUTTING ATTACHMENT FOR HEMSTITCHING MACHINES. EMIL PRAZAK, Elizabeth, N. J. Filed June 4, 1930. Serial No. 459,195. 6 Claims. (Cl. 112—123.)

1. The combination with a hemstitching machine including a presser foot and a piercer bar, of a piercer holder carried by said bar and formed with a supporting arm, said supporting arm being formed with a longitudinally positioned groove in one side and a slot extending through the arm, said slot being spaced from said groove, a knife movable through said presser foot, a knife arm carrying said knife, said knife arm being formed with a bead slidably fitting in said groove, a threaded aperture spaced from said bead, and a clamping screw extending through the slot in said supporting arm into said threaded aperture for adjustably clamping the knife arm to the supporting arm and adjustable means carried by said knife arm adjacent the end opposite the knife, said adjustable means being positioned to engage said supporting arm and limit the



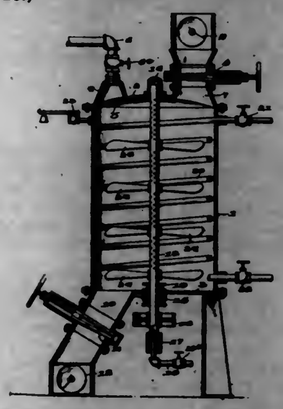
sliding movement of said knife arm in respect to said supporting arm.

1,920,106. TOW LINE. SAMUEL REICHERT, Gardena, Calif., assignor of one-half to Joseph E. Donaldson, Fullerton, Calif. Filed Oct. 25, 1932. Serial No. 639,501. 5 Claims. (Cl. 280—33.14.)



1. A tow line comprising a pair of superimposed flat elastic strips of like form, means for connecting them together in proximity to their sied edges, a web of loosely woven metallic fabric interposed between said strips and arranged adjacent the means for connecting the strips together, coupling elements extended from the ends of the strips and means for anchoring said elements, strips and web together.

1,920,107. PROCESS AND APPARATUS FOR TREATING COTTON SEEDS AND OTHER GRAIN. JAMES R. RICHARDSON, Houston, Tex., assignor to Abilene Cotton Oil Company, Abilene, Tex., a Corporation of Texas. Filed Jan. 24, 1927. Serial No. 163,238. 15 Claims. (Cl. 83—28.)

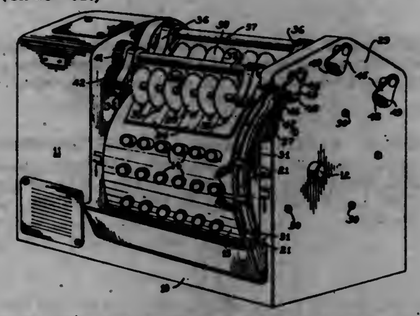


6. In a treating chamber, a valved feed inlet for admitting a product to be treated, a valved vacuum conduit communicating with said chamber and adapted to extract air from the chamber and product, moisture spraying

means within said chamber, and heating means within said chamber.

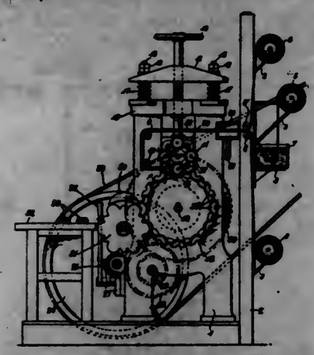
12. In a treating chamber, an inlet and outlet in the top and bottom thereof respectively, means for creating a vacuum in said chamber, heating means within said chamber, and an axially extended perforated spray pipe rotatably mounted axially in said chamber and having agitator blades extended therefrom.

1,920,108. NUT CASTELLATING MACHINE. PETER F. ROSSMANN, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich.,,a Corporation of Michigan. Filed Dec. 26, 1930. Serial No. 504,964. 8 Claims. (Cl. 10—72.)



1. In a slotting machine, a frame, a drum rotatably mounted in the frame, a group of chucks mounted on the drum for rotation about axes radial to the drum, a pinion on each of the chucks, a gear rack engaging each pinion in the group and slidably mounted on the drum to move the entire group at once, a follower on the gear rack, and a stationary cam track groove in which the follower is mounted, said groove being formed to cause the chucks to be moved to different predetermined positions as the drum rotates.

1,920,109. APPARATUS FOR PRODUCING PACKING STRIPS. GOTTFRIED RUDGENBERG, Olpe, Germany. Filed Aug. 31, 1932. Serial No. 631,263. 8 Claims. (Cl. 154—30.)



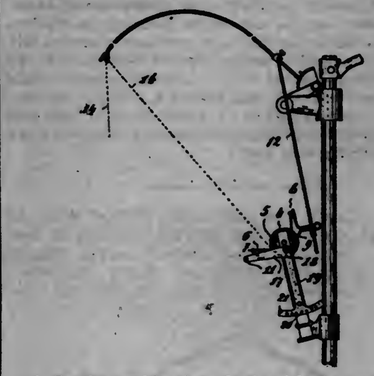
1. In an apparatus for producing packing strips, two roller units pressingly arranged adjacent each other, one of said units comprising two end walls, a plurality of molding elements rotatably arranged between the peripheries of said two end walls, the other unit consisting of a cylinder having a plurality of recesses complementary to the molding elements of said first unit and of substantially a half longitudinal section of said molding elements, means for guiding a sheet of material between said roller units, and means for rotating said roller units to form said packing strip from said sheet of material without a tearing or undue stretching of said material.

1,920,110. RUBBER STAMP AND METHOD OF MAKING THE SAME. ARTHUR W. SCHMIDT, Spring Valley, N. Y. Filed Mar. 7, 1932. Serial No. 597,879. 8 Claims. (Cl. 101—379.)



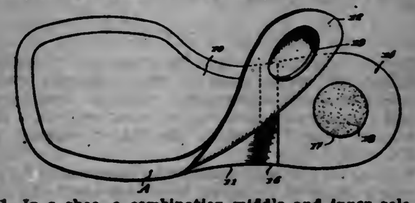
1. As a new article of manufacture, a rubber stamp comprising a channel-shaped holder, a block in the holder, a handle, a stud on the handle projecting through the back of the holder and secured in the block, a rubber body filling the holder, enclosing the block and projecting beyond the holder.

1,920,111. COP WINDING FRAME. WALTER SCHWEITER, Horgen, near Zurich, Switzerland. Filed Dec. 4, 1930, Serial No. 500,126, and in Germany Jan. 21, 1930. 3 Claims. (Cl. 242—156.)



1. In the combination of a band brake arrangement for an unwinding bobbin, a brake disc, a brake band in engagement with said brake disc, a carrier for said band having two arms across which said band extends a lever upon which said carrier is pivoted, means for adjustably setting said lever with respect to said brake disc, and means for varying the angular contact surface between said brake disc and band in accordance with the tension upon the thread unwound from the bobbin.

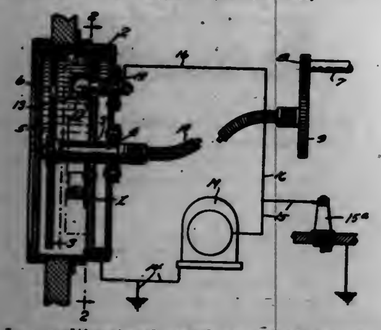
1,920,112. SPRING HEEL SEAT. WILLIS S. SHAFF, Faribault, Minn. Filed June 23, 1931. Serial No. 546,335. 3 Claims. (Cl. 36—37.)



1. In a shoe, a combination middle and inner sole, an outer sole, and a heel piece inserted between the heel por-

tions of said soles, said heel piece including a body of relatively stiff material and a pad of resilient material, said pad projecting through the body beyond the opposite faces thereof, the combination middle and inner sole having a cavity in its lower face receiving the projecting upper end of the pad.

1,920,113. SPEED INDICATING DEVICE. JOHN W. SIMMONS, Cleveland, Ohio, assignor to Pioneer-Instrument Company, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Aug. 16, 1929. Serial No. 386,425. 12 Claims. (Cl. 88—14.)



1. In a multi-motored aeroplane, an indicator arranged so as to be visible to the pilot to the aeroplane and adapted to indicate when the motors are operating in synchronism, said indicator comprising a rotatably mounted dial, a plurality of electric lamps disposed behind said dial and electrically connected with the ignition systems of said motors respectively, said dial having a plurality of apertures therein so arranged as to render the light from said lamps visible under certain predetermined conditions and means for rotating said dial.

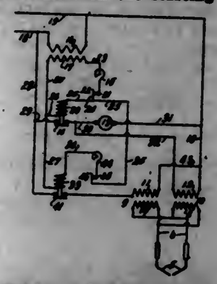
1,920,114. DEVICE FOR REDUCING PISTON SLAP IN INTERNAL COMBUSTION ENGINES. DEAN M. SOLENBERGER, Cleveland, Ohio, assignor to The Simplex Piston Ring Company of America, Inc., a Corporation of Ohio. Filed July 12, 1928, Serial No. 292,124. Renewed May 6, 1931. 2 Claims. (Cl. 309—5.)



1. The combination with a piston and a cylinder, of a ring in a groove in one of said members and a corrugated ribbon expander between said ring and the bottom of the groove having a greater thickness in one portion thereof than in another portion.

1,920,115. IGNITION MEANS FOR OIL BURNERS. LEOLYN F. SPEAR, Westfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a Corporation of Massachusetts. Filed Nov. 28, 1930. Serial No. 498,718. 8 Claims. (Cl. 175—115.)

1. In an oil burner, electrically operated means for producing a spray of oil, spark electrodes positioned adjacent the path of said spray, a plurality of transformers having their secondary coils connected in multiple to said electrodes, means for energising the primary coils of all said transformers on the starting of said electri-



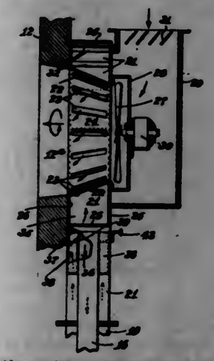
cally operated means, and automatic means for deenergising certain but not all of said transformers after said spray has been ignited by the spark at said electrodes.

1,920,116. PADLOCK. ELMER B. STONE, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Aug. 6, 1931. Serial No. 555,545. 1 Claim. (Cl. 70—17.)



A padlock comprising a case having a shackle projecting from one end thereof and a button of non-marring material projecting outwardly of a side of the case with the button adapted to space the case from an article with which the shackle is engaged and said button including a cushion element carried by the case at a point below the transverse median line of the case providing a two-point shackle and button engagement with the article.

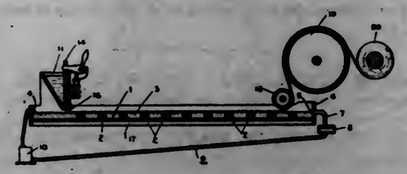
1,920,117. PULVERIZED FUEL BURNER. EDWARD H. TENNEY, Webster Groves, Mo. Filed June 29, 1929. Serial No. 374,641. 10 Claims. (Cl. 110—104.)



6. In combination with a furnace wall having an opening, a burner for pulverized fuel comprising walls forming a substantially circular chamber mounted adjacent to and substantially coaxial with said opening, means to introduce pulverized fuel and air into said chamber and cause the fuel to travel along the peripheral wall of the chamber, thereby separating the coarse particles of fuel by centrifugal force into an outer zone surrounding the fine, a passage communicating with the central portion

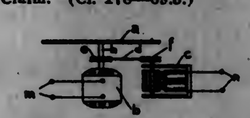
of the chamber which delivers the fine particles through the opening in the furnace wall, and an ejection passage communicating with the outer zone through which the coarse particles in the outer zone may escape from the burner.

1,920,118. APPARATUS FOR MAKING FLOWED FILMS AND SHEETS. JAMES F. WALSH, East Orange, JOHN H. STEVENS, South Orange, KIRTLAND FLYNN, Orange, AMERIGO F. CAPRIO, Newark, and THOMAS E. ALCORN, Maplewood, N. J., assignors to Celluloid Corporation, a Corporation of New Jersey. Filed July 19, 1928. Serial No. 293,893. 5 Claims. (Cl. 18—15.)



1. Apparatus for the production of sheets which comprises in combination an inclined trough, a liquid sheet-supporting surface, a reservoir adapted to contain the sheet forming solution and a stripping roll adapted to remove the sheet from the sheet-supporting surface.

1,920,119. TELEVISION AND PICTURE TRANSMITTING APPARATUS. GUSTAV WIKKENHAUSER, Berlin-Halensee, Germany, assignor to Telehor Aktien-Gesellschaft, Berlin-Charlottenburg, Germany. Filed Aug. 27, 1930, Serial No. 478,192, and in Germany Aug. 29, 1929. 1 Claim. (Cl. 178—69.5.)



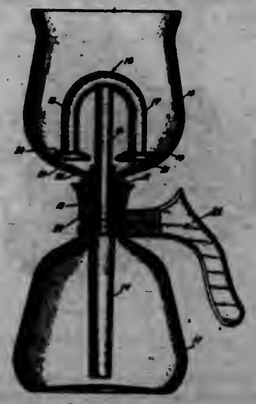
A synchronizing apparatus for producing steady pictures with television and picture transmitting receivers, comprising in combination, a main motor for direct driving of the picture composing device of the receiver, an auxiliary synchronous motor, an elastic transmission member connecting the two motors effecting the synchronisation, said transmission comprising an elastic belt and pulleys therefor secured to said motors respectively; whereby smooth transmission is attained, preventing oscillation about the synchronous speed.

1,920,120. METHOD OF MANUFACTURING MOLDED MOTTLED ARTICLES. CARLTON HULBERT WOODRUFF, Auburn, N. Y., assignor to Auburn Button Works, Inc., Auburn, N. Y., a Corporation of New York. Filed Feb. 15, 1930. Serial No. 428,735. 2 Claims. (Cl. 18—59.)



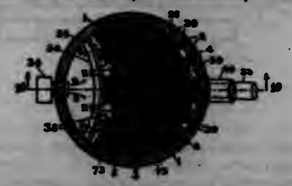
1. The method of manufacturing molded articles from phenolic compounds comprising placing in a mold a body of the material to be molded and a sheet of paper impregnated with the same kind of material but of different color, such sheet overlying the body of material and then subjecting the materials in the mold to heat and pressure whereby the material to be molded is spread out and the sheet of paper ruptured, and portions of the body of the material extend between separated parts of the paper sheet and are exposed at the surface of the article.

1,920,121. APPARATUS FOR MAKING COFFEE. IRVING E. BAUGHMAN, Chicago, Ill., assignor, by mesne assignments, to V. R. Weast, Chicago, Ill. Filed May 2, 1931. Serial No. 534,556. 5 Claims. (Cl. 53—3.)



1. In a device of the character described, a lower liquid receptacle having a retracted neck portion, an upper coffee receptacle having a downwardly projecting tubular portion for engagement with said neck portion and extending to a point near the bottom of said lower receptacle, a one-piece siphon tube contained wholly within said upper receptacle and tubular portion comprising a main stem extending into said tubular portion and at least one branch extending downwardly to a point near the bottom of said upper receptacle.

1,920,122. HEAT INTERCHANGING APPARATUS AND PROCESS. JEAN LOUIS CHAVANNE, Paris, France. Filed Oct. 16, 1924, Serial No. 744,076, and in France Mar. 19, 1924. 24 Claims. (Cl. 257—246.)

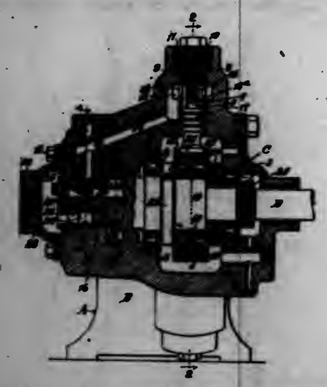


1. In heat exchanging apparatus of the type operating with continuous passage of two fluids between which the heat exchange occurs, the combination of a mass of refractory bodies having multiple fluid passages, a thin flue wall of high conductive material located in said mass but with a narrow fluid passage between said flue wall and the bodies composing said mass, and a mass of refractory material within said flue but with a narrow fluid passage between said inner mass and the interior wall of said flue.

1,920,123. RADIAL PUMP. WALTER ERNST, Mount Gilead, Ohio, assignor to Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Filed June 27, 1929. Serial No. 373,986. 6 Claims. (Cl. 103—174.)

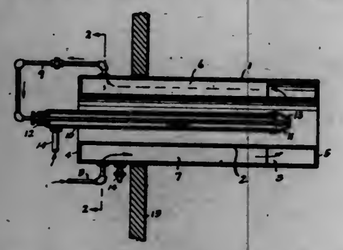
1. The combination with a support; of a shaft journalled for rotary movements with respect thereto; an odd number of cylinders fixedly mounted with respect to the support and disposed radially about said shaft, each of said cylinders being provided with an opening; an eccentric on said shaft, a polygonal block mounted on said eccentric for rotary movements with respect thereto, said block having a number of sides equal to the number of said cylinders, the sides of said block being perpendicular to the longitudinal axes of the respective cylinders; a plurality of pistons respectively mounted in said cylin-

ders for reciprocation independently of each other; extensions fixedly connected to the inner ends of the pistons and having sliding surface contact with the sides of



the block; means for maintaining said extensions in contact with the sides of the block; and a valve for controlling the flow of fluid through said cylinder openings into and out of said cylinders.

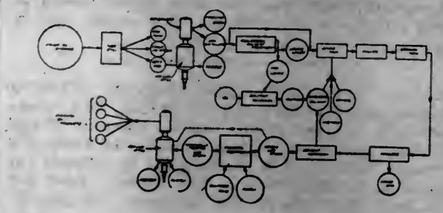
1,920,124. BURNER. WILLIAM H. GILLIS, Humble, Tex., assignor of one-fourth to D. H. Gunn and one-fourth to H. B. Gunn, Harris County, Tex. Filed Dec. 3, 1931. Serial No. 578,723. 4 Claims. (Cl. 158—53.)



1. A burner comprising a tubular body composed of an outer and an inner jacket defining a chamber between them, a nozzle pipe extending axially through the inner jacket and terminating in a nozzle, a fuel supply pipe entering the outer end of the chamber, a feed pipe leading out from the outer end of the chamber and extending co-axially through the nozzle pipe and terminating in a fuel nozzle, and means for confining the fuel in the chamber to movement in a longitudinal course therealong.

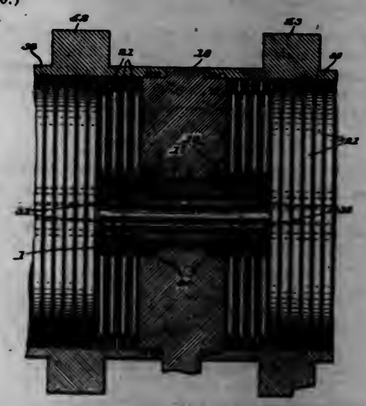
1,920,125. PROCESS FOR THE RECOVERY AND PURIFICATION OF LUBRICATING OILS FROM MINERAL OILS. FRANCIS X. GOVERS, Vincennes, Ind., assignor to Indian Refining Company, Lawrenceville, Ill., a Corporation of Maine. Filed Apr. 2, 1931, Serial No. 527,104, and in Canada Sept. 9, 1929. 6 Claims. (Cl. 196—17.)

6. Process of making lubricating oil of high viscosity index and low pour test which comprises mixing a wax-bearing distillate lubricant-containing fraction of a crude oil substantially free from constituents having a boiling point equal to or below that of gas oil with acetone, allowing the mixture to stand and separating the resulting two liquid layers, adding acetone and benzol to the lower layer in quantities sufficient with the acetone already present to provide in the mixture about equal parts of acetone and benzol in quantity amounting to about one and one-half times that of the oil in the mixture, cooling the mixture whereby the wax content is substantially completely precipitated, separating the precipitated wax



and recovering the dewaxed oil from the separated solution thereof.

1,920,126. FILTRATION. FRANCIS X. GOVERS, Vincennes, Ind., assignor to Indian Refining Company, Lawrenceville, Ill., a Corporation of Maine. Filed Jan. 25, 1932. Serial No. 588,586. 6 Claims. (Cl. 210—200.)



1. In a filter press a shell, a plurality of hollow filter leaves spaced apart and rotatably supported within the shell, means for rotating the leaves, means for introducing a mixture of liquid and solids to the spaces between the exterior surfaces of the filter leaves upon which solids are deposited while the filtrate flows into the interior of the leaves, means for continuously withdrawing the filtrate therefrom during rotation of the leaves, means for introducing cake washing liquid to the interior of alternate leaves during their continued rotation, and means for withdrawing the wash liquid, after passage through the cake, from the interior of adjacent leaves.

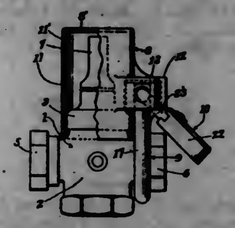
1,920,127. STORED PRESSURE MEDIUM CONTAINER. HENRY ERNEST HEIGIS, West Orange, N. J., assignor to Walter Kidde & Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 29, 1932. Serial No. 608,214. 4 Claims. (Cl. 169—31.)

1. As an article of manufacture a vessel for containing a medium under pressure, said vessel being formed with at least one end open, a closure member for an open end of the vessel, a passage through said closure member, a frangible disc within the closure member to close the passage against the escape of the pressure medium, securing means to secure the disc over the end of the passage, a passage through the securing means, puncturing means to puncture the disc to permit the escape of the medium when desired, said puncturing means being provided with a passage to permit discharge of the medium therethrough, means to normally maintain the puncturing means out of contact with the frangible disc, and a fracturable seal beyond the last named means normally obstructing the path of discharge of the pressure medium and serving both as a guard against corrosion within the



closure member and as a means of indicating the discharge of the pressure medium, when the seal is fractured.

1,920,128. LOCKING ATTACHMENT. RAYMOND Y. MICKLER, Jacksonville, Fla., assignor to City of Jacksonville, a Corporation of Florida. Filed Apr. 5, 1933. Serial No. 664,609. 5 Claims. (Cl. 70—123.)



5. In a locking attachment for a service cock, a hollow cap element for completely covering the cock's valve member shifting means, said element being formed with a pair of spaced lateral extensions, a U-shaped holding element for partly surrounding a portion of the cock and having the upper ends of the arms thereof completely covered by said extensions, and a locking element including means passing through one of the extensions and that end of an arm completely covered by such extension for locking the cap and holder element together and to the cock.

1,920,129. FIBER STORAGE AND PRESERVATION. TREADWAY B. MUNROE and HERBERT C. LATHROP, Chicago, Ill., assignors to The Celotex Company, Chicago, Ill., a Corporation of Delaware. Filed June 11, 1930. Serial No. 460,533. 5 Claims. (Cl. 92—5.)



1. A pile of fermentable, fibrous, vegetative material having dimensions in the order of 66' x 100' x 25', the pile formed of densely baled material having an initial moisture content of 25% or over, the bales arranged substantially in layers, the interior bales of the pile in an arrangement whereby vertical sides of bales contact adjacent bales at vertical corner edges only, thereby providing interiorly of the pile multitudinous, non-continuous vertical flues, the exterior bales of the pile erected in relatively ordered arrangement and having elements thereof separated and providing ventilating ducts opening from the exterior of the pile into the interior thereof, adjacent bales of the exterior surface of the pile having applied adjacent exteriorly exposed lines of contact a reservoir of fungicide, the pile as a whole having a protecting covering whereby the top surface thereof is protected from direct precipitation of moisture.

1,920,130. CLAMPING DEVICE. ORVILLE E. PRAGH, Baldwin, N. Y., and NORBERT G. JOSEPH, Bogota, N. J., assignors to F. J. Kloes, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 16, 1929. Serial No. 347,588. 2 Claims. (Cl. 189—36.)



1. The combination in a clamping bracket of a barrel having an opening in the wall, said barrel adapted to support a pipe, a clamping hook extending from the barrel, said hook adapted to support a second pipe at right angles to the first pipe, the second pipe located over the opening in said barrel and bearing on the first pipe, an internally threaded boss extending from the barrel and a clamping screw with its longitudinal axis inclined to the longitudinal axis of the barrel in threaded engagement with said boss and one of its ends adapted to bear against said second pipe to clamp both of said pipes to said clamping bracket.

1,920,131. POURING SPOUT FOR SALT AND LIKE CONTAINERS. WALTER L. RUTKOWSKI, St. Louis, Mo., assignor to R. C. Can Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 1, 1931. Serial No. 566,351. 2 Claims. (Cl. 221—11.)

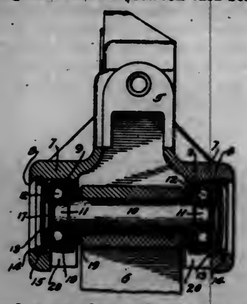


1. The combination of a container having a cover provided with a rectangular opening, a lip integral with the cover and narrower than the width of the cover opening to provide a pair of corner recesses communicating with the cover opening, a winged spout having a flat floor and the wings thereof provided wtih right angular hinge forming corners at the junction of the wings of the spout with the floor of the spout and one edge of each spout wing having each end thereof provided with a stop disposed at a right angle to the side faces of the wings and directed outwardly from the outer face of each side wall, one face of each hinge corner of the spout adapted to engage the end edge of the corner recesses when the spout is closed and the other face of each hinge corner of the spout adapted to engage the inner edge of the corner recesses when the spout is in its closed position.

1,920,132. SPRING CONNECTION. RAYMOND R. SHARLES, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Dec. 4, 1930. Serial No. 499,929. 7 Claims. (Cl. 287—54.)

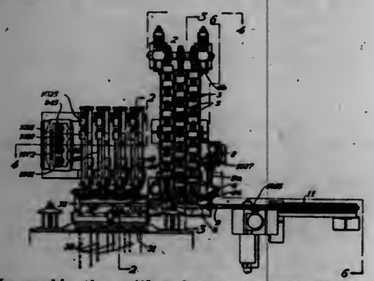
1. In a spring connection, a frame member having spaced apart bosses with bores therein, a spring having a bearing means projecting from opposite sides thereof and having raceways for anti-friction bearing members at the ends thereof, a pair of bearing cups within said bores and fitting over and engaging the ends of said bearing means to be thereby spaced apart, anti-friction bearing members in-

terposed between said bearing means and said bearing cups for sustaining radial loads between said bearing means and



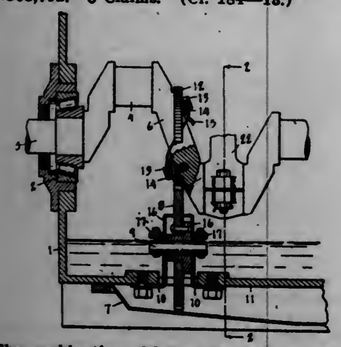
said cups, and means for resiliently holding said bearing cups in said bores in engagement with said bearing means.

1,920,133. BILLET FEEDING AND HEATING APPARATUS. DAVID L. SUMMEY, Waterbury, Conn.; The Colonial Trust Company and Richard P. Weeks Summey executors of said David L. Summey, deceased. Original application filed Feb. 20, 1928, Serial No. 255,644. Divided and this application filed July 25, 1929, Serial No. 380,805. Renewed Mar. 16, 1932. 55 Claims. (Cl. 263—6.)



1. In combination with a furnace housing having a plurality of billet paths, a guideway extending past the entrance end of said paths, a delivery pusher for pushing a billet along said guideway, means for supplying a billet to said guideway, selective stop means for stopping a billet in front of a predetermined path, and means for pushing the stopped billet into the furnace.

1,920,134. GEAR OILING SYSTEM FOR MULTIPLE CYLINDER INTERNAL COMBUSTION ENGINES. ERIC. P. TEEL, Lansing, Mich., assignor to Novo Engine Company, Lansing, Mich. Filed Dec. 31, 1930. Serial No. 505,792. 6 Claims. (Cl. 184—18.)



1. The combination with a crank shaft of a multiple cylinder engine of a lubricating spur gear disposed and supported within the crank case and partially submerged in the oil, and a spur gear ring secured to an intermediate crank arm and disposed to mesh with said lubricating spur gear, the meshing point being disposed in proximity to a crank pin bearing whereby oil will be projected to the said bearing.

1,920,135. SWITCH CONTROLLING MECHANISM. JOSEPH W. ALLEN, East Orange, N. J., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J., a Corporation of New Jersey. Filed Oct. 21, 1931. Serial No. 570,248. 9 Claims. (Cl. 200—87.)



1. In a device of the class described, an electro-magnet having an oscillatable armature, and a shell enclosing said electro-magnet and armature, said shell having an internal cylindrical surface of substantially elliptical cross-section.

1,920,136. ASH TRAY. EDWIN B. ARTHUR and FRANK G. LESLIE, Irwin, Pa. Filed Mar. 31, 1932. Serial No. 602,262. 3 Claims. (Cl. 131—51.)



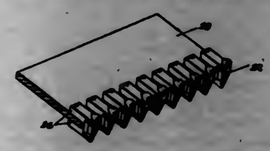
1. In an ash tray the combination of a receptacle portion for receiving the ashes of cigarettes or the like of hooklike projections extending upwardly therefrom, the hook portions of which are adapted to intimately engage a cigarette and securely hold it in position.

1,920,137. ALKOXYACETIC ACIDS. HERMAN A. BRUSON, Germantown, Pa., assignor to The Resinous Products & Chemical Co. Inc., Philadelphia, Pa. Filed Sept. 28, 1932. Serial No. 635,194. 12 Claims. (Cl. 260—112.)

1. An acid having the formula R—O—CH_2—COOH wherein R is a branched-chain alkyl group containing more than five carbon atoms.

4. An acidic mixture composed of acids having the general formula R—O—CH_2—COOH wherein R is an alkyl radicle of a branched-chain, aliphatic, monohydric alcohol having more than five carbon atoms which is present in the mixture of by-products alcohols resulting from the catalytic synthesis of methanol from carbon monoxide and hydrogen.

1,920,138. METHOD OF MAKING SLIDE FASTENERS. GEORGE H. C. CORNER, Birmingham, England, assignor to Hookless Fastener Company, a Corporation of Pennsylvania. Filed Oct. 15, 1932, Serial No. 637,984, and in Great Britain Oct. 17, 1931. 7 Claims. (Cl. 18—59.)



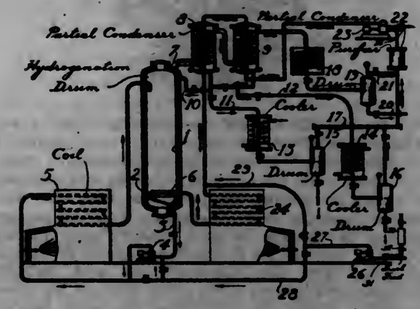
1. The method of making separable interlocking fasteners of the type having rows of non-metallic fastener

members uniformly and closely spaced apart on flexible supports and having heads shaped so as to interlock when the members are intermeshed, comprising forming such fastener members of non-metallic material and thereafter attaching the formed members in uniformly and closely spaced relation on flexible supports by sticking and so that the flexible support between the fastener members remains flexible.

1,920,139. RUBBER VULCANIZATION MOLD. GEORGE W. CROSBY, Woodcliff, N. J., assignor to Bakelite Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 7, 1929. Serial No. 345,241. 10 Claims. (Cl. 18—47.)

1. A rubber vulcanization mold having as a contact surface a heat-resistant plastic composition including mica as a filler.

1,920,140. PROCESS FOR HYDROGENATION OF HYDROCARBON OILS. HAROLD W. FISHER, Baton Rouge, La., assignor to Standard-I. G. Company. Filed July 3, 1929. Serial No. 375,706. 4 Claims. (Cl. 196—58.)



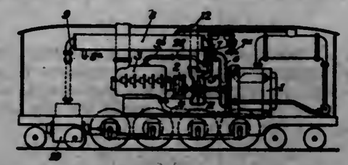
2. An improved process for the destructive hydrogenation of petroleum fractions comprising maintaining a body of the oil containing in suspension a catalytic material of such density and particle size as to cause rapid settling in an elongated vertical reaction zone at a decomposing temperature and under hydrogen pressure in excess of twenty atmospheres, withdrawing the suspension from the lower end of said zone, heating it and returning it to the upper end of said zone.

1,920,141. SPLIT BUSHING FOR TOOL POSTS AND SIMILAR APPLICATIONS OF USE. WILLIAM E. FISCHER, Bethlehem, Pa. Filed Mar. 23, 1931. Serial No. 524,656. 1 Claim. (Cl. 74—40.)



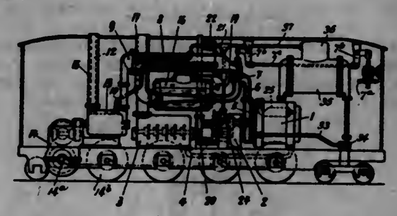
In a device as set forth, the combination with a support provided with a tapered opening, of a tapered bushing engaged in the opening, a clamping screw threaded through the bushing, said bushing at its larger end provided with a head consisting of diametrically opposite lateral extensions with flat faces to engage the flat faces adjoining said opening, thereby preventing turning of the bushing, said bushing comprising two sections whereby the clamping screw may be driven in one direction causing the removal of the two sections of the bushing and permitting a final withdrawal.

1,920,142. POWER PLANT. HANS HOLZWARTH, Dusseldorf, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif., a Corporation of Delaware. Filed July 18, 1931, Serial No. 551,809, and in Germany July 15, 1930. 3 Claims. (Cl. 60—49.)



1. A portable power plant comprising an explosion turbine including a constant volume explosion chamber, an expansion nozzle for expanding the intermittent puffs of gases discharged by said chamber to a pressure considerably above atmospheric, and an impulse rotor arranged to be driven by the gases discharging from said nozzle, an air compressor coupled with said turbine to be driven thereby, a conduit for conducting compressed air from the compressor to the explosion chamber, an elastic fluid engine for driving the vehicle, a conduit for conducting the exhaust combustion gases from said turbine to said engine, a valve associated with said last-mentioned conduit, a gas conduit adapted to lead away exhaust gases from said impulse rotor, means connected with said last-mentioned gas conduit for utilizing the gases as they are fed by said last-mentioned gas conduit, and ultimately discharging the deenergized gases into the atmosphere, and control mechanism for said valve operable to adjust the valve to admit all of said exhaust gases from said turbine to said engine when the latter is under heavy load, and to adjust the valve to cut off said engine from part or all of said exhaust gases and to deflect such gases into said last-mentioned gas conduit to said other gas utilizing means when said engine is under partial or no load.

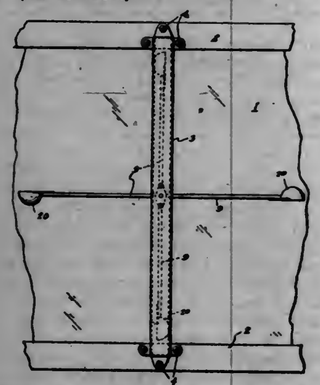
1,920,143. EXPLOSION TURBINE PLANT. HANS HOLZWARTH, Dusseldorf, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif., a Corporation of Delaware. Filed July 9, 1932, Serial No. 621,548, and in Germany July 15, 1930. 4 Claims. (Cl. 60—49.)



1. A portable power plant comprising an explosion turbine including a constant volume explosion chamber, air and fuel charging mechanisms at the inlet end of the chamber, a discharge valve at the discharge end of the chamber, an expansion nozzle for expanding the intermittent puffs of gases discharged by said chamber to a pressure considerably above atmospheric, and an impulse rotor arranged to be driven by the gases discharging from said nozzle, an air compressor coupled with said turbine to be driven thereby, a conduit for conveying the compressed air from said compressor to the inlet end of the explosion chamber, an elastic fluid engine for driving the vehicle, a conduit for conducting the exhaust combustion gases from said turbine to said engine, a heat exchanger, a conduit for conducting a fluid to said exchanger to be heated therein, an elastic fluid turbine coupled with said compressor, a conduit for conveying the heated fluid to said last-mentioned turbine, and control mechanism associated with said first-mentioned conduit and operable to admit all of said exhaust gases from said

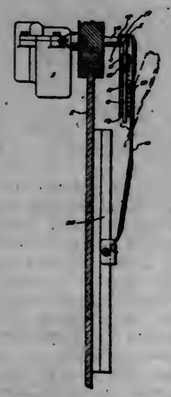
explosion turbine to said first-mentioned engine when the latter is under heavy load, but adjustable to cut off from such engine part or all of said exhaust gases and to deflect such gases to said heat exchanger when such engine is under partial or no load.

1,920,144. AEROPLANE WINDOW CLEANER. HENRY HUEBER, Buffalo, and EDWIN C. HORTON, Hamburg, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y. Filed Nov. 1, 1929. Serial No. 404,152. 10 Claims. (Cl. 15—250.)



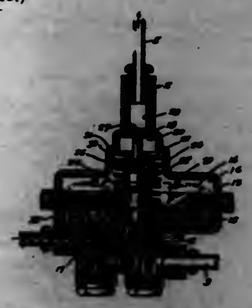
1. A cleaner for aeroplanes having forwardly sloping windshields, comprising a bracket adapted for being mounted on the frame of a windshield, a shaft, a bearing member for the shaft, means adjustably attaching the bearing member to the bracket, said member having a socket opposing the bracket and said bracket having an aperture opposing the socket, a pressure-controlling member threaded in the socket and having end thrust support on the bracket about the aperture and being accessible therethrough, a wiper head carried by the shaft and adjustable therewith, said head including a wiper blade, means resiliently urging the blade into wiping position, and propelling means for the blade.

1,920,145. WIPER ARM AND MOUNTING THEREFOR. HENRY HUEBER, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y. Filed Nov. 29, 1929. Serial No. 410,601. 23 Claims. (Cl. 15—255.)



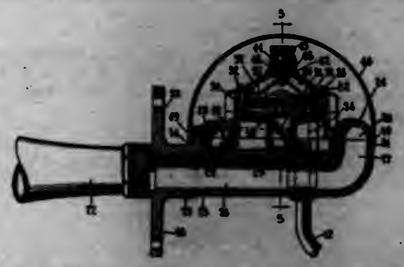
4. In a windshield cleaner, a shaft having a transverse bearing, a spring means carrying rod element having an offset providing a shoulder and a pintle spaced from the shoulder, the latter engaging in said bearing, spring means on said rod element having one end bearing against said shoulder, a stirrup element engaged with said shaft and having a part supporting the opposite end of the spring means under compression, said rod element engaging the stirrup element whereby the latter will move with the shaft, and means carried by one of said elements for carrying a wiper blade.

1,920,146. FLUID OPERATED MOTOR. HENRY HUEBER, Buffalo, and EDWIN C. HORTON, Hamburg, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y. Filed Apr. 24, 1930. Serial No. 446,929. 6 Claims. (Cl. 121—48.)



4. A fluid operated motor comprising a casing, a diaphragm associated with the casing to form a chamber, a fluid passage connecting the chamber with a source of low fluid pressure, valve means for interrupting said fluid passage, means for moving the diaphragm when said fluid passage is closed by said valve means, a second passage connecting the interior of said chamber with the atmosphere, a stud carried by the diaphragm, a sleeve supporting the valve and telescoping the stud, resilient means interposed between parts of the stud and the sleeve for normally urging the sleeve into telescoped relation with the stud, and a guiding stem projecting from the sleeve and slidably received through the seat for guiding the valve and the sleeve during their movement.

1,920,147. HORN. HENRY HUEBER, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y. Filed July 20, 1932. Serial No. 623,626. 16 Claims. (Cl. 116—142.)

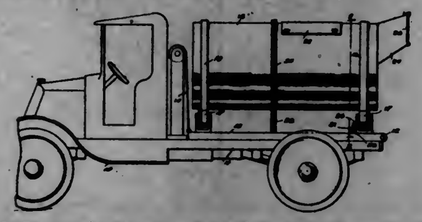


1. In a fluid pressure horn, a body section having a passage extending therethrough, a trumpet secured to the body at one end to form a continuation of said passage, the other end of the passage terminating in a trough in one face of said body section, a second body section abutting the first mentioned section and having a trough complementing the first mentioned trough to form a passage portion continuing from said other end of the first mentioned passage, a third body section secured to said second body section and cooperating therewith to provide a sound chamber, fluid operable means in the sound box for producing sound pulsations, and an opening between said sound chamber and said passage portion.

1,920,148. FUSIBLE ELECTRODE FOR ELECTRIC WELDING. DANIEL LAGRANGE and FERDINAND DE PAPE, Uccle, Belgium, assignors to La Soudure Electrique Autogène Société Anonyme, Brussels, Belgium. Filed May 28, 1930, Serial No. 456,802, and in France June 6, 1929. 10 Claims. (Cl. 219—8.)

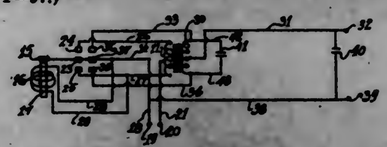
1. An electrode for electric arc welding comprising a metallic core and a coating on the core, said electrode containing by weight of the core from 0.25% to 30% of beryllium.

1,920,149. VEHICLE BODY FOR TRANSPORTING MIXED CONCRETE. ARTHUR E. MILLER, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 20, 1929. Serial No. 356,771. 5 Claims. (Cl. 82—73.)



1. In a vehicle for transporting mixed concrete and the like, a chassis; and an unbalanced load receiving body rotatably mounted on said chassis, having a hatch displaced from the axis of rotation in substantially the plane of displacement of the center of gravity of the body.

1,920,150. DIRECT-CURRENT VOLTAGE TRANSFORMATION APPARATUS. RONALD J. ROCKWELL, Cincinnati, Ohio, assignor to The Crosley Radio Corporation, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 7, 1932. Serial No. 646,194. 9 Claims. (Cl. 171—97.)



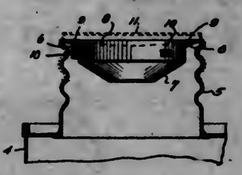
6. In combination with a transformer having a tapped primary and a tapped secondary, a vibrator device having motive means connected into a source of primary current and a set of contacts to cause the flux in said transformer to vary from a positive to a negative value periodically, a second set of contact devices connected with the secondary of said transformer to rectify the secondary voltage, and means for causing the contact changes of said rectifying means to occur in substantial synchronism with the points of zero potential of said secondary transformer voltage, said means comprising means for modifying the phase of said transformer secondary voltage, said several sets of contacts arranged to operate in synchronism.

1,920,151. POTENTIAL PRODUCING CELL. SAMUEL RUBEN, New Rochelle, N. Y. Filed Apr. 22, 1933. Serial No. 667,491. 12 Claims. (Cl. 136—100.)



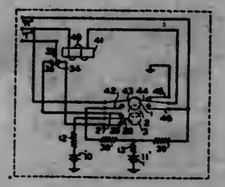
1. A potential supplying battery, comprising a cathode composed of at least one element chosen from the empirical group including aluminum, zinc, magnesium, beryllium and cadmium, an anode of an electronically conductive material electro negative with respect to said cathode, and a contacting electrolyte chosen from the class comprising glycol borates and glycerol borates.

1,920,152. ANTIPILFERAGE SEAL. ADOLPH G. SCHURMAN, Baltimore, Md. Filed Oct. 2, 1929. Serial No. 396,737. 1 Claim. (Cl. 220—24.)



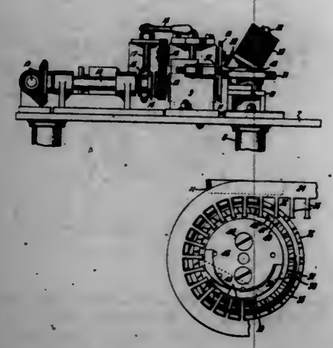
A container provided with a discharge spout having an inturned rigid marginal flange provided with a horisontal outer portion and an inner portion extending continuously at a downward and inward angle of inclination from said outer horisontal portion, and a seal for said spout having a closed bottom portion and an annular vertical flange projecting upwardly therefrom, said vertical flange having an outwardly extending horisontal flange at its upper edge lying wholly in the recess formed by and overhanging the said downwardly and inwardly inclined portion of the marginal flange of the spout and resting upon said inclined portion of the flange so as to dispose its upper surface flush with the upper surface of the outer horizontal portion of said marginal flange of the spout, and annularly spaced outstruck lugs on the vertical flange of the seal extending under the downwardly and inwardly inclined portion of the marginal flange of the spout and holding the latter closely confined between said lugs and said horizontal flange of the seal.

1,920,153. CALL BOX REGISTER CIRCUIT. ALLISON A. CLOKEY, Rutherford, N. J., assignor to International Communications Laboratories, Inc., New York, N. Y., a Corporation of New York. Filed July 17, 1930. Serial No. 468,606. 3 Claims. (Cl. 177—367.)



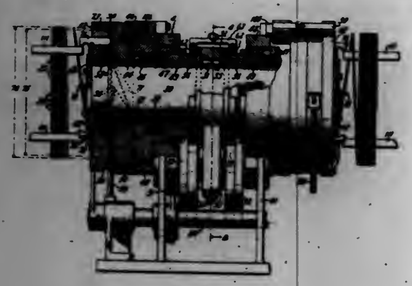
2. In a signalling system, the combination of a loop interconnecting a plurality of calling devices each provided with means for grounding and then opening a point on said loop, a relay and a register controlled thereby, and switching means normally connecting said relay and said loop in a closed series circuit, whereby said relay is de-energizable upon each opening of said loop by the operation of any calling device therein, and conditioning said register to respond to the release of said relay, said switching means being operable when an accidental grounding of both legs of said loop occurs to connect each leg through equal resistances to a grounded source of potential, to condition said register to respond to the operation of said relay, and to connect said relay in shunt across said loop whereby said relay is operated upon each opening of the leg on one side of said ground by the operation of any calling device included in said leg.

1,920,154. EDGEWISE WINDING MACHINE FOR STATOR CORES. HELGE E. CARLSON, Saugus, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 26, 1932. Serial No. 639,623. 13 Claims. (Cl. 153—64.5.)



1. In a machine of the character described, the combination of rolls for rolling toothed strip stock to form a helix with edgewise disposed turns, a notched plate receiving the stock after it is rolled, a mandrel receiving the stock from the plate, means for guiding the stock from the plate to the mandrel, and power means for rotating the rolls.

1,920,155. CORE FORMING MACHINE FOR ELECTRICAL APPARATUS AND METHOD OF MAKING CORES. FREDERICK E. FISHER, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 26, 1932. Serial No. 639,624. 45 Claims. (Cl. 153—2.)



1. In a machine of the character described, the combination of a pair of members mounted to turn on a common axis and presenting opposing flat surfaces, said surfaces being arranged to clamp and retain between them a thin strip of metal lying in a plane perpendicular to said axis, means for simultaneously turning both of the members and the strip to bend the latter edgewise to circular form, means for discharging the strip from between the members after it has been so bent, and a supporting frame.

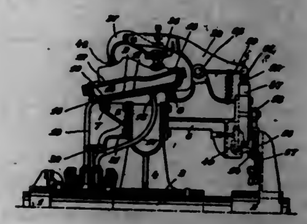
86. The method of forming a laminated structure for a dynamo electric machine which comprises cutting alternate teeth and slots in a strip of metal stock, winding the strip edgewise to form a helix of a predetermined diameter, rewinding the helix so formed to a helix of smaller diameter with the teeth and slots in axial register, and annealing the helix before use to remove strains.

1,920,156. ANTENNA FOR SHORT AND ULTRA-SHORT WAVES. WALTER HAHNEMANN, Berlin-Marienfelde, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Filed June 20, 1930, Serial No. 462,487, and in Germany Oct. 30, 1929. 3 Claims. (Cl. 250—33.)



1. An antenna arrangement for directive reception of short and ultra-short waves, comprising in combination an antenna loop having a side length not greater than one-tenth of the length of the wave to be received and an antenna lead having an effective vertical length not less than one-half the length of the wave to be received.

1,920,157. VULCANIZING PRESS. HEINRICH WALTHER, Frankfort-on-the-Main-Oberrad, Germany. Filed Feb. 24, 1932, Serial No. 594,829, and in Germany Sept. 23, 1931. 6 Claims. (Cl. 18—17.)

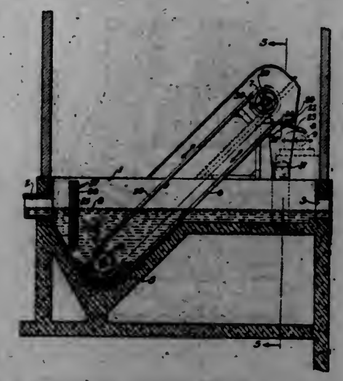


1. In a vulcanizing press for applying soles to shoes, a rotatable carrier, a plurality of pressing and heating cushions on the carrier abutments for the shoes cooperating with the cushions, a fixed inlet of a heated pressure medium, a centrally arranged distributor connected to the inlet of the heated medium, and ducts in the distributor and in the rotatable carrier arranged to create a constant communication between the said inlet and the most of the cushions and to cut-off this communication between the said inlet and the rest of the cushions.

1,920,158. SEWAGE APPARATUS. JOHN G. ALBERTSON, Oradell, N. J. Filed Dec. 18, 1931. Serial No. 581,895. 12 Claims. (Cl. 210—3.)

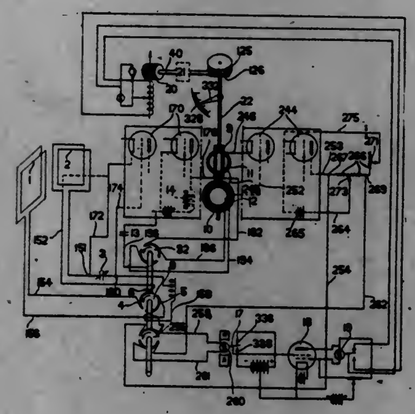
1. Apparatus of the character described comprising a sewage chamber having a bottom wall and a grit collecting pit positioned below the level of said bottom wall, influent and effluent channels for said chamber, baffle means

positioned in the pit portion of said chamber for varying the velocity of the sewage to regulate the type of grit deposited in the pit, said means comprising a plurality



of relatively movable members one of which is adjustably spaced from a wall of the pit and another of which is adjustable with respect to the sewage level, and means for removing the grit deposited in the pit.

1,920,159. RADIOGONIOMETER. HAIG ANTRANIKIAN, Paris, France, assignor of one-half to Franklin T. Miller, Newton, Mass. Filed Aug. 14, 1928, Serial No. 299,606, and in France Aug. 16, 1927. 28 Claims. (Cl. 250—11.)



1. A radiogoniometer comprising two fixed loops disposed at an angle to each other and adapted to receive a signal from a radio-wave source, commutating means for reversing the sense of one of the loops, amplifying means for the currents induced in said loops, inductive coupling means connected with the amplifying means and upon which the amplified currents are impressed, said coupling means having a movable part for indicating directly the direction of the radio-wave source, a relay connected with said inductive coupling means so as to be operated thereby, a null-point indicator controlled in accordance with the actuation of said relay, and means controlled by the relay for actuating the movable part of the coupling means.

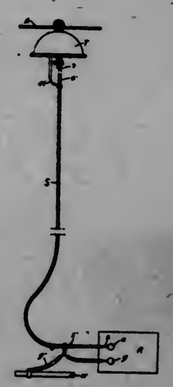
1,920,160. COATING COMPOSITION CONTAINING A SICCATIVE. HERMAN ALEXANDER BRUSON, Germantown, Pa., assignor to The Resinous Products & Chemical Co. Inc., Philadelphia, Pa. Original application filed Jan. 23, 1932, Serial No. 588,499. Divided and this application filed Sept. 15, 1932. Serial No. 633,271. 22 Claims. (Cl. 134—57.)

1. In the process of accelerating the rate of drying of auto-oxidizable coating compositions, the step which comprises incorporating therein a polyvalent metal salt of an acid having the formula R—O—CH_2—COOH wherein R is one of the group consisting of alkyl radicles having more than five carbon atoms; a hydro-aromatic radicle; and an aryl group bearing at least one alkyl side chain substituent which has more than four carbon atoms in a normal straight chain.

1,920,161. LUBRICANT. HAROLD M. ROSEN, Muskegon, Mich. Filed Dec. 14, 1931. Serial No. 581,066. 5 Claims. (Cl. 196—151.)

1. A lubricant consisting of paraffin, petroleum jelly and oil, said volumetric proportions of the ingredients being as follows:—paraffin 50 parts, petroleum jelly 30 parts, and oil 20 parts.

1,920,162. RADIO AERIAL ATTACHMENT. ERNEST V. AMY and FRANK KING, New York, N. Y., assignors to Amy, Aceves & King, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 10, 1932. Serial No. 628,142. 15 Claims. (Cl. 250—33.)

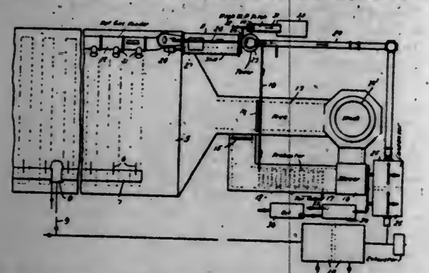


1. The combination with a radio receiving aerial and a shielded downlead, of a device for connecting the downlead to the aerial comprising connecting means suspending the device from and making electrical connection to the aerial, an impedance matching transformer connected with said connecting means, and means connecting the transformer with the shielded downlead conductor and with ground.

1,920,163. DISTILLATION OF TAR. STUART PARMELEE MILLER, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 26, 1929. Serial No. 335,206. 18 Claims. (Cl. 202—30.)

1. The method of distilling tar, which comprises heating the tar continuously in a pipe coil to a high temperature, discharging the resulting tar into direct contact with hot coal carbonization or gasification gases in a vapor separating chamber to effect distillation thereof, passing the residue into a still and subjecting it to intimate and thorough contact in the form of a spray with a current

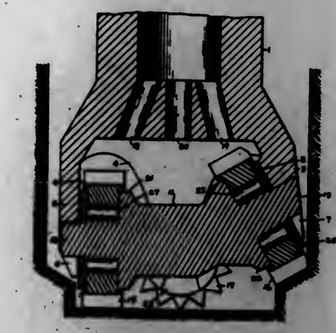
of hot coal carbonization or gasification gases to effect further distillation, and passing the resulting gases and



vapors through the vapor separating chamber in direct contact with the preheated tar before it enters the still.

1,920,164. ROLLER BIT. THOMAS H. STANCLIFF, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a Corporation of Texas. Refiled for abandoned application Serial No. 604,446, filed Apr. 11, 1932. This application filed Jan. 24, 1933. Serial No. 653,348. 7 Claims. (Cl. 255—71.)

5. A roller bit having a head, and three roller cutters mounted in said head, one of said cutters projecting beyond the periphery of said head on an axis inclined upwardly and outwardly from the longitudinal axis of said head, the other cutters being mounted on axes at an angle to



each other and at substantially a right angle to the longitudinal axis of said head to cut the formation substantially from the longitudinal axis of said head to the path cut by said first mentioned cutter.

OFFICIAL GAZETTE

OF THE

UNITED STATES PATENT OFFICE

VOLUME 433

AUGUST

1933

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON: 1933

TP608
13
v. 433 Aug. 1933

Aug 15 1933

CONTENTS

	Page
DECISIONS OF THE COMMISSIONER OF PATENTS, August 1, 8, 15, 22, 29	3, 223, 509, 793, 1081
TRADE-MARKS PUBLISHED AND REGISTERED, August 1, 8, 15, 22, 29	11, 231, 517, 801, 1089
LABELS AND PRINTS REGISTERED, August 1, 8, 15, 22, 29	36, 261, 548, 837, 1113
REISSUES, August 1, 8, 15, 22, 29	39, 263, 549, 839, 1115
PLANT PATENTS	—, —, —, —, —
DESIGNS, August 1, 8, 15, 22, 29	40, 265, 549, 841, 1116
PATENTS, August 1, 8, 15, 22, 29	40, 272, 561, 850, 1127

ANNOUNCEMENTS

	Page
ADVERSE DECISIONS IN INTERFERENCE	1, 507, 791, 1079
AMENDMENTS TO AMENDMENTS—Rule 74	1079
APPLICATIONS—Condition of pending	2, 222, 508, 792, 1080
Access to pending	1079
BRIEFS IN APPEALED CASES—To designate particular tribunal addressed	1079
CLASSIFICATION OF INVENTION—Changes in—*Order No. 3,245*	221
DISCLAIMERS—Babcock, Walter F	1088
Bender, Howard L	1087
Breeler, Walter R	800
Chase, George C	507
Dearborn, Richard J	507
Dunmore, Francis W	9
Hentschel, Ernest C	1088
Graves, George D	10
Knauss, Edward, and Herman G. Adler	1087
Loomis, Nathaniel E	230
Lowell, Percival D., and Francis W. Dunmore	8
Moore, Thomas F	1088
Peterson, William R	1087
Robb, John F	230
Ross, Oscar A	230
Sachs, Joseph	230
Seaborne, Charles R	800
Stein, Friedrich	507
Thomas, Thomas H. (two cases)	10
Van Hamersveld, John J. N., and Edward P. Burrell	1087
DRAWINGS—Instructions relative to ordering	791
INTERFERENCE NOTICE—Beaumont Fruit Company, Inc	1079
INTERNATIONAL CONVENTION FOR THE PROTECTION OF INDUSTRIAL PROPERTY—Adhesion of Liechtenstein	8
PATENT SUITS	7, 229, 515, 799, 1086
PATENTS—List of adjudicated	1, 221, 507, 1079
RESERVATION CLAUSES—Not permitted	1079
TRADE-MARKS—Canceled	1, 221
Notice of cancellation	1, 221

TABLE OF CASES REPORTED

	Page
* Bloodhart *v.* Levernier	510
* Grapp. In re	5
* Hennig *v.* Evans	1084
* Jacobi. In re	228
* Kaser. In re	797
* Liebergeld and Singer. In re	798
* McKee. In re	509
* McPherson. In re	514
* Murray. In re	794
* Peiler. In re	1081
* Pomeroy. In re	512
* Pomeroy *v.* Walker	8
* Stovall. In re	7
* Sutter Packing Company *v.* Piggly Wiggly Corporation	1083
* Wagenhorst. In re	228

[Decisions of the United States Court of Customs and Patent Appeals are indicated by a star (*).]

ERRATA

List of Inventions, Cell, Photoelectric, J. H. Rouse, 1,921,483, August 8, 1933, appears on page xxxiv, of the OFFICIAL GAZETTE of August 8, 1933, listed under "Cell, Photoelectric", but should appear on page xxxviii under "Photoelectric Cell."

335566

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abilena Company, The, Abilene, Kans. Natural mineral water. Serial No. 338,828; Aug. 1. Class 45.

Ace Manufacturing Company, Chicago, Ill. Astringents, astringent cerates, bleach and beauty creams, etc. Serial No. 322,842; Aug. 1. Class 6.

Aktieselskabet de Forenede Bryggerier, Copenhagen, Denmark. Malt beverages. Serial No. 338,922; Aug. 1. Class 48.

American Enka Corporation, Asheville, N. C. Lingerie, negligees, etc. Serial No. 336,064; Aug. 1. Class 39.

Anti-Vermin Crusaders. (See Brown, Max J.)

Ararat Company, Inc., doing business as University Milling Co., Cambridge, Mass. Cereal breakfast food. Serial No. 337,988; Aug. 1. Class 46.

B. V. D. Company, Inc., The, Baltimore, Md. Bathing suits. Serial No. 338,895; Aug. 1. Class 39.

Bagpak, Inc., New York, N. Y. Paper bags. Serial No. 322,206; Aug. 1. Class 2.

Baldwin, Henry W., doing business as Baldwin Laboratories, Saegertown, Pa. Insecticide and fly killer. Serial No. 336,149; Aug. 1. Class 6.

Bay Company, The, Bridgeport, Conn. Adhesive plaster. Serial No. 336,306; Aug. 1. Class 44.

Bentley, Sara H., Chicago, Ill. Deodorant talc. Serial No. 336,525; Aug. 1. Class 6.

Bens, Geo., & Sons, St. Paul, Minn. Gin. Serial No. 337,592; Aug. 1. Class 49.

Best & Co., Inc., New York, N. Y. Hats, coats, dresses, etc. Serial No. 332,246; Aug. 1. Class 39.

Beyer, Fred H., doing business as Beyer's Shop-System, Lockport, N. Y. Record books. Serial No. 338,180; Aug. 1. Class 37.

Binney & Smith Co., New York, N. Y. Plasticiser for use in connection with rubber. Serial No. 338,644; Aug. 1. Class 6.

Bol-Dart Mfg. Co., The. (See Grelle, Charles H.)

Bourjois, Inc., New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. Serial No. 338,481; Aug. 1. Class 6.

Briggs Manufacturing Company, Detroit, Mich. Sinks, lavatories, and bathtubs. Serial No. 338,924; Aug. 1. Class 13.

Brown, Max J., doing business as Anti-Vermin Crusaders, Cincinnati, Ohio. Insecticide. Serial No. 327,904; Aug. 1. Class 6.

Brown, Walter G., doing business as Sterite Laboratories, Los Angeles, Calif. Antiseptic preparation. Serial No. 336,926; Aug. 1. Class 6.

Burstyn, Libby, Los Angeles, Calif. Cosmetics. Serial No. 323,986; Aug. 1. Class 6.

Calumet Novelty Works. (See Herron, Clinton J.)

Cambridge Laboratories, The. (See Rasmus, Marrion.)

Campana Corporation, Batavia, Ill. Astringents, astringent cerates, bleach and beauty creams, etc. Serial No. 337,835; Aug. 1. Class 6.

Capital City Products Company, The, Columbus, Ohio. Peanut oil. Serial No. 338,400; Aug. 1. Class 46.

Chamber of Commerce of the United States of America, Washington, D. C. Periodical. Serial No. 339,179; Aug. 1. Class 38.

Chautauqua Malted Milk, Inc., Mayville, N. Y. Powdered skim and whole milk, ice cream mix, malted milk. Serial No. 328,661; Aug. 1. Class 46.

Chem. pharm. Laboratorium "Bika" V. Pöhlmann und Apotheker R. Nagel, Stuttgart, Germany. Medicines, fresh plant juices, etc. Serial No. 330,176; Aug. 1. Class 6.

Chess, Mary, Inc., New York, N. Y. Toilet preparations. Serial No. 337,689; Aug. 1. Class 6.

Codo Manufacturing Corporation, Coraopolis, Pa. Typewriter ribbons and carbon papers. Serial No. 339,069; Aug. 1. Class 11.

Colonial City Cigar Manufacturing Co. Inc., Kingston, N. Y. Cigars. Serial No. 338,600; Aug. 1. Class 17.

Cotte Manufacturing Co., Inc., New York, N. Y. Fly catchers. Serial No. 339,149; Aug. 1. Class 50.

Craddock Terry Company, Lynchburg, Va. Shoes. Serial No. 338,077; Aug. 1. Class 39.

Crawford, A. & A., Leith, Scotland. Scotch whisky. Serial No. 338,518; Aug. 1. Class 49.

Cribari, B., & Sons, San Jose, Calif. Wines. Serial No. 339,183; Aug. 1. Class 47.

Croft & Co. Limited, London, England. Port wines. Serial Nos. 336,928–9; Aug. 1. Class 47.

Crown Willamette Paper Company, San Francisco, Calif. Wrapping paper. Serial No. 338,034; Aug. 1. Class 37.

Cushing-Feinberg, Inc., New York, N. Y. Silks, satins, cottons, etc. Serial No. 327,555; Aug. 1. Class 42.

Cwick, Samuel T., Inc., Brooklyn, N. Y. Butter and eggs. Serial No. 338,218; Aug. 1. Class 46.

Dallas Macaroni Mfg. Co. (See Lomenaco, Joseph J.)

Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France. Perfumes, toilet waters, powders, etc. Serial No. 338,035; Aug. 1. Class 6.

Dee's Manufacturing Co. (See De Lugach, Frank.)

Dehydrol Company, The. (See Tuvin, J. H.)

De Lugach, Frank, doing business as Dee's Manufacturing Co., Chicago, Ill. Tooth paste. Serial No. 337,997; Aug. 1. Class 6.

Dixon & Wagner, New Orleans, La. Medicinal preparation. Serial No. 330,812; Aug. 1. Class 6.

Donnellan, J. Edward, doing business as National Dairy Bureau, Cleveland, Ohio. Liniment for cows. Serial No. 337,004; Aug. 1. Class 6.

Drew, Irving, Co., The, Portsmouth, Ohio. Shoes. Serial No. 337,915; Aug. 1. Class 39.

Duriron Company, Inc., The, Dayton, Ohio. Ferrous alloys. Serial No. 339,064; Aug. 1. Class 14.

E. Z. Walk Corporation, New York, N. Y. Aseptic and antiseptic bands and bandages. Serial No. 329,015; Aug. 1. Class 44.

Eberhard Paper Pencil Company, Brooklyn, N. Y. Lead pencils. Serial No. 338,689; Aug. 1. Class 37.

Elsner, Sydney W., New York, N. Y. Hosiery. Serial No. 338,899; Aug. 1. Class 39.

Eureka Chemical Company, Sylacauga, Ala. Preparation to drive away ants. Serial No. 337,903; Aug. 1. Class 6.

Falkingham, Percival E., New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. Serial No. 338,652; Aug. 1. Class 6.

Farmers Federation, Inc., Asheville, N. C. Tomato juice beverages. Serial No. 338,867; Aug. 1. Class 45.

Fay Wood Corporation, New York, N. Y. Skin toning lotion, face and hand lotion, liquid shampoo, etc. Serial No. 337,940; Aug. 1. Class 6.

Fleet, C. B., Co., Inc., Lynchburg, Va. Concentrated solution of sodium phosphate. Serial Nos. 337,670–1; Aug. 1. Class 6.

Forbes, Jas. H., Tea and Coffee Company, St. Louis, Mo. Mustard. Serial No. 338,085; Aug. 1. Class 46.

Forst, Jacob, Packing Co., Inc., Kingston, N. Y. Hams, strip bacon and sliced bacon, frankfurts, etc. Serial No. 335,907; Aug. 1. Class 46.

Fox, Irving, New York, N. Y. Safety razor blades. Serial No. 338,317; Aug. 1. Class 28.

Gage, Ellsworth D., doing business as Rain Machine Sales Co., Oakland, Calif. Portable overhead irrigating systems. Serial No. 332,187; Aug. 1. Class 13.

Garfinkel & Ritter, New York, N. Y. Ladies' undergarments. Serial No. 335,597; Aug. 1. Class 39.

General Steel Castings Corporation, Ridley Township, Delaware County, Pa. Metal castings and forgings. Serial No. 324,334; Aug. 1. Class 14.

Gilbert & Barker Manufacturing Company, West Springfield, Mass. Oil burners. Serial No. 338,042; Aug. 1. Class 34.

Gilmour Thomson & Co. Limited, Glasgow, Scotland. Whiskey. Serial No. 339,151; Aug. 1. Class 49.

Goldwein Koshermade Products Co., Brooklyn, N. Y. Koshered dressed poultry. Serial No. 335,959; Aug. 1. Class 46.

Gopher Beer Chip Company, The, Minneapolis, Minn. Potato chips. Serial No. 338,044; Aug. 1. Class 46.

Graham Mill & Elevator Company, Graham, Tex. Wheat flour. Serial No. 337,187; Aug. 1. Class 46.

Grelle, Charles H., doing business as The Bol-Dart Mfg. Co., Meriden, Conn. Games. Serial No. 337,517; Aug. 1. Class 22.

Griggs, Cooper & Co., doing business as Sanitary Food Mfg. Co., St. Paul, Minn. Gelatine, cocoa, apple butter, honey, etc. Serial No. 336,679; Aug. 1. Class 46.

Hampshire Paper Company, South Hadley Falls, Mass. Paper. Serial No. 339,166; Aug. 1. Class 37.

Hansen, William, assignor to Julius Schmid, New York, N. Y. Rouge compacts and lip sticks. Serial No. 338,174; Aug. 1. Class 6.

Hanson, W. T. Co., Schenectady, N. Y. Preparation for ingrown nails. Serial No. 337,031; Aug. 1. Class 6.

Hardwicke, John B., doing business as John B. Hardwicke Co., Corpus Christi, Tex. Fresh vegetables and fruits. Serial No. 324,146; Aug. 1. Class 46.

Hart, Schaffner & Marx, Chicago, Ill. Coats, vests, trousers, etc. Serial No. 338,521; Aug. 1. Class 39.

Hawaiian Pineapple Company, Ltd., Honolulu, Hawaii. Canned pineapple. Serial No. 338,048; Aug. 1. Class 46.

Herron, Clinton J., doing business as Calumet Novelty Works, Royal Oak, Mich. Adhesive cement. Serial No. 333,970; Aug. 1. Class 5.

Hinde & Dauch Paper Company, The, Sandusky, Ohio. Storage chest. Serial No. 338,129; Aug. 1. Class 2.

Hirscher, Henry L., doing business as Standard Remedy Company, New York, N. Y. Cough medicine for cats and dogs. Serial No. 336,287; Aug. 1. Class 6.

Holsten-Brauerei, Altona, Germany. Malt beverages. Serial No. 337,698; Aug. 1. Class 48.

Holsten-Brauerei, Altona, Germany. Malt beverages. Serial No. 337,853; Aug. 1. Class 48.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Hooper, Wm. E., & Sons Co., Baltimore, Md. Textile fabrics in the piece. Serial No. 339,108; Aug. 1. Class 50.

Hoover Hosiery Company, Concord, N. C. Hosiery. Serial No. 337,609; Aug. 1. Class 39.

Hudnut, Richard, New York, N. Y. Perfumes, toilet water, dentrifrices, etc. Serial No. 336,354; Aug. 1. Class 6.

Hynson, Westcott & Dunning, Incorporated, Baltimore, Md. Bromine derivatives of saligenin. Serial No. 338,371; Aug. 1. Class 6.

Indiana Breweries, Inc., Indianapolis, Ind. Lager beer. Serial Nos. 338,838–9; Aug. 1. Class 48.

Industrial Appliances, Inc., Sandusky, Ohio. Ice cream and other frozen confections. Serial No. 336,531; Aug. 1. Class 46.

International Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 330,657; Aug. 1. Class 46.

International Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 338,975; Aug. 1. Class 46.

Jay Dee Products Co. Inc., Brooklyn, N. Y. Sipping straws. Serial No. 339,158; Aug. 1. Class 50.

Kassoulas, George, Williamson, W. Va. Internal composition of a jelly-like formation for stomach troubles, indigestion, etc. Serial No. 331,745; Aug. 1. Class 6.

Kleinert, I. B., Rubber Company, New York, N. Y. Floating rubber animal and caricature toys. Serial No. 328,098; Aug. 1. Class 22.

Kleinert, I. B., Rubber Company, New York, N. Y. Bathing shoes, caps, and belts. Serial No. 328,099; Aug. 1. Class 39.

Kleinert, I. B., Rubber Company, New York, N. Y. Baby pants. Serial No. 338,933; Aug. 1. Class 39.

Kliwer, Arthur G., doing business as U-Needit Calculator Company, Abilene, Kans. Calculating chart. Serial No. 338,902; Aug. 1. Class 38.

Kolb, F. J., Co., Lena, Ill. Cheese. Serial No. 338,051; Aug. 1. Class 46.

Kold Master Refrigerator Company, The, Canton, Ohio. Refrigerators. Serial No. 338,609; Aug. 1. Class 31.

Kress, S. H., & Co., New York, N. Y. Cedar oil floor polish. Serial No. 338,497; Aug. 1. Class 16.

Kuppenheimer, B., & Co. Inc., Chicago, Ill. Coats, vests, trousers, etc. Serial No. 337,870; Aug. 1. Class 39.

La Font Laboratories, Inc., Yonkers, N. Y. Preparations for relief of sleeplessness. Serial No. 338,458; Aug. 1. Class 6.

Lazow, Morris, Brooklyn, N. Y. Cups and containers. Serial No. 338,658; Aug. 1. Class 2.

Lethelin Products Company, Manhasset, N. Y. Ant and roach poison. Serial No. 338,872; Aug. 1. Class 6.

Lipka, Peter, Coatesville, Pa. Concrete burial vaults. Serial No. 338,784; Aug. 1. Class 2.

Lomonaco, Joseph J., doing business as Dallas Macaroni Mfg. Co., Dallas, Tex. Dried macaroni, spaghetti, and vermicelli. Serial No. 338,735; Aug. 1. Class 46.

MacFadden Publications, Inc., New York, N. Y. Magazine. Serial No. 338,823; Aug. 1. Class 38.

Majestic Silk Mills, Inc., New York, N. Y. Silk piece goods. Serial No. 338,842; Aug. 1. Class 42.

Massillon Rubber Company, The, Massillon, Ohio. Surgeon's gloves. Serial No. 338,980; Aug. 1. Class 44.

Match King, Inc., Chicago, Ill. Lamps. Serial No. 338,254; Aug. 1. Class 34.

Mayflower Oil Burner Corp., West New York, N. J. Oil burners, cooling, ventilating, and humidifying units. Serial No. 338,226; Aug. 1. Class 34.

McCutchen, Calvin W., & Co., Inc., New York, N. Y. Local anæsthetic. Serial No. 337,639; Aug. 1. Class 6.

McDearmon, Edward, Washington, D. C. Blank book system for income tax. Serial No. 338,746; Aug. 1. Class 37.

Meertief, G., doing business as Meertief Chicle Company, Los Angeles, Calif. Chewing gum. Serial No. 338,099; Aug. 1. Class 46.

Meier, Madeleine V., New Rochelle, N. Y. Bottled salad dressings. Serial No. 335,283; Aug. 1. Class 46.

Milani Food Corporation, Chicago, Ill. Spaghetti sauce. Serial No. 330,602; Aug. 1. Class 46.

Miller, Frank, doing business as F. Miller Company, Sturtevant, Wis. Adhesive cement. Serial No. 337,858; Aug. 1. Class 5.

Modern Food Process Company, Philadelphia, Pa. Dog and cat food. Serial No. 338,874; Aug. 1. Class 46.

Mon Docteur Importing Co., Inc., Middlefield, Conn. Vaginal syringes and douche bags. Serial No. 338,422; Aug. 1. Class 44.

Mutual Garment Company, St. Louis, Mo. Women's wearing apparel. Serial No. 338,986; Aug. 1. Class 39.

National Dairy Bureau. (See Donnellan, J. Edward.)

Nelson Products Corporation, New York, N. Y. Bottle feeding appliances. Serial No. 339,196; Aug. 1. Class 44.

Neuss, Hesslein & Co., Inc., New York, N. Y. Bleached satteens and other cotton piece goods. Serial No. 338,012; Aug. 1. Class 42.

Nippon Biiru Kosen Kabushikikaisha, Marunouchi, Kojimachi-Ku, Tokyo-Shi, Japan. Beer. Serial No. 335,330; Aug. 1. Class 48.

Ohio Match Company, The, Wadsworth, Ohio. Tooth brushes. Serial No. 337,679; Aug. 1. Class 29.

"Original Pilsner Beer" Importing Company, Limited, New York, N. Y. Beer. Serial No. 338,876; Aug. 1. Class 48.

Parfumerie Caron. (See Daltroff, E., & Cie.)

Parfumerie Roger & Gallet, Societe Anonyme, doing business as Roger & Gallet, Paris, France. Toilet soaps. Serial No. 338,663; Aug. 1. Class 4.

Parfumerie St. Denis, New York, N. Y. Creams, rouges, face packs, etc. Serial No. 327,408; Aug. 1. Class 6.

Peg Football Co., Minneapolis, Minn. Table football game. Serial No. 338,905; Aug. 1. Class 22.

Penick, S. B., & Company, Inc., New York, N. Y. Insecticides. Serial Nos. 338,430–1; Aug. 1. Class 6.

Philadelphia Quartz Company, Philadelphia, Pa. Silicate of soda. Serial Nos. 338,635–7; Aug. 1. Class 6.

Pinaud, Incorporated, New York, N. Y. Hair tonic, toilet water, perfumes, etc. Serial No. 337,929; Aug. 1. Class 6.

Pinaud, Incorporated, New York, N. Y. Toilet soap and shaving soap sticks and cream. Serial No. 337,930; Aug. 1. Class 4.

Pitt Publishing Company, Pittsburgh, Pa. Cartoons. Serial No. 338,906; Aug. 1. Class 38.

Precious Metals Refining Works, Inc., Pontiac, Mich. Dental casting golds, dental platinum, etc. Serial No. 338,940; Aug. 1. Class 44.

Premier-Pabst Corporation, Peoria Heights, Ill. Beer. Serial No. 339,081; Aug. 1. Class 48.

Premier-Pabst Corporation, Peoria Heights, Ill. Beer. Serial No. 339,117; Aug. 1. Class 48.

Rain Machine Sales Co. (See Gage, Ellsworth D.)

Rasmus, Marrion, doing business as The Cambridge Laboratories, Eggertsville, N. Y. Medicinal preparations. Serial No. 337,680; Aug. 1. Class 6.

Raymond, Charles A., Marion, Ohio. Toasted food product. Serial No. 335,212; Aug. 1. Class 46.

Records & Goldsborough, Baltimore, Md. Whiskey. Serial Nos. 339,282–4; Aug. 1. Class 49.

Riegel Textile Corporation, New York, N. Y. Shirts. Serial No. 338,580; Aug. 1. Class 39.

Robertson Bros. & Co. Limited, London, England. Port wine. Serial No. 339,042; Aug. 1. Class 47.

Roemer, Norman D., New York, N. Y. Bedspreads, valances, and draperies. Serial No. 337,092; Aug. 1. Class 42.

Roger & Gallet. (See Parfumerie Roger & Gallet, Societe Anonyme.)

Roman Meal Company, Tacoma, Wash. Whole wheat cereal. Serial No. 338,112; Aug. 1. Class 46.

S. M. A. Corporation, Cleveland, Ohio. Cod liver oil, vitamin concentrates, etc. Serial No. 337,399; Aug. 1. Class 6.

Sadinoff & Wendroff, Inc., New York, N. Y. Textile fabric. Serial No. 338,839; Aug. 1. Class 42.

Sanitary Food Mfg. Co. (See Griggs, Cooper & Co.)

Schmid, Julius. (See Hansen, William.)

Schmid, Julius, New York, N. Y. Prophylactic rubber and membranous articles. Serial No. 332,426; Aug. 1. Class 44.

Schuylkill Valley Mills, Inc., Spring City, Pa. Hosiery. Serial No. 337,804; Aug. 1. Class 39.

Scott, O. M., & Sons Company, Marysville, Ohio. Lawn grass seed. Serial No. 337,093; Aug. 1. Class 1.

Sears, Roebuck and Co., Chicago, Ill. Kegs, clothes baskets, oil cans, etc. Serial No. 335,697; Aug. 1. Class 2.

Sears, Roebuck and Co., Chicago, Ill. Pie filling, candy, fish food, etc. Serial No. 336,302; Aug. 1. Class 46.

Selby Shoe Company, The, Portsmouth, Ohio. Boots and shoes. Serial No. 338,582; Aug. 1. Class 39.

Sheffield Dentifrice Company, New York, N. Y., and New London, Conn. Astringents, astringent cerates, bleach and beauty creams, etc. Serial No. 337,271; Aug. 1. Class 6.

Sherwood Distilling & Distributing Co., The, Baltimore, Md. Whisky. Serial No. 339,126; Aug. 1. Class 49.

Siegel, A., & Sons Inc., New York, N. Y. Cigars. Serial No. 338,585; Aug. 1. Class 17.

Silva & Cosens, Limited, London, England. Port wine. Serial No. 339,167; Aug. 1. Class 47.

Smith, Frank J., jr., doing business as Frank J. Smith & Son, Albany, N. Y. Headache wafers, corn salve, cough syrup, etc. Serial No. 335,650; Aug. 1. Class 6.

Souvenir Hosiery, Incorporated, Chicago, Ill. Hosiery. Serial No. 339,006; Aug. 1. Class 39.

Splain & Lloyd, Incorporated, Milford, Ohio. Cotton applicators. Serial No. 337,017; Aug. 1. Class 44.

Standard Remedy Company. (See Hircher, Henry L.)

Stanton Laboratories, Brooklyn, N. Y. Greaseless skin cream. Serial No. 338,232; Aug. 1. Class 6.

Sta-Rite Hair Pin Company, Shelbyville, Ill. Lotion for setting waves in hair. Serial No. 327,374; Aug. 1. Class 6.

Sterite Laboratories. (See Brown, Walter G.

Stetson Shoe Company, Inc., The, Weymouth, Mass. Boots and shoes. Serial No. 338,586; Aug. 1. Class 39.

Stowe, James P., doing business as The Stowe Stores, Charlotte, N. C. Medicinal preparation for colds. Serial No. 334,587; Aug. 1. Class 6.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Strong Bag Company, Incorporated, Richmond, Va. Paper bags. Serial No. 338,669; Aug. 1. Class 2.

Sutherland Mfg. Co., Inc., Washington, D. C. Arch lifts, vacuum cups, etc. Serial No. 338,951; Aug. 1. Class 44.

Tuvin, J. H., doing business as The Dehydrol Company, Baltimore, Md. Preparation for reducing. Serial No. 338,170; Aug. 1. Class 6.

U-Needit Calculator Company. (See Kilmer, Arthur G.)

University Milling Company. (See Ararat Company.)

Vitality Mills, Inc., Chicago, Ill. Poultry and stock foods. Serial No. 337,811; Aug. 1. Class 46.

Warren, William, Co., San Francisco, Calif. Ground chocolate and cocoa. Serial No. 339,010; Aug. 1. Class 46.

Weideman Company, The, Cleveland, Ohio. Whiskey. Serial No. 339,287; Aug. 1. Class 49.

Western States Grocery Company, Oakland, Calif. Beer. Serial No. 339,011; Aug 1. Class 48.

Weston-Schramm, Inc., New York, N. Y. Massage vibrators. Serial No. 338,882; Aug. 1. Class 44.

Wilcheck Chemical Co. Inc., New York, N. Y. Liniment. Serial No. 338,344; Aug. 1. Class 6.

Williams & Humbert, London, England. Sherry wine. Serial No. 339,056; Aug. 1. Class 47.

Wings Publishing Company, Inc., New York, N. Y. Magazine. Serial No. 335,568; Aug. 1. Class 38.

Youngs Rubber Corporation, Inc., New York, N. Y. Douche syringes. Serial No. 331,452; Aug. 1. Class 44.

Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany. Chemical preparations. Serial No. 328,196; Aug. 1. Class 6.

Zobel, Ernst, Company, Brooklyn, N. Y. Barrel lining (pitch). Serial No. 336,414; Aug. 1. Class 1.

LIST OF REGISTRANTS OF TRADE-MARKS

Aktieselskabet Aluminia, to Aktieselskabet Fajancefabriken Aluminia, Copenhagen, Denmark, successors. Delftware and chinaware. 40,572; renewed June 9, 1933.

Aktieselskabet Fajancefabriken Aluminia. (See Aktieselskabet Aluminia.)

Albersmeier, Henry, Newburgh, N. Y. Preparation for the treatment of kidney, dropsy, etc., diseases. 305,079; Aug. 1; Serial No. 334,277; published May 16, 1933. Class 6.

American Anode Inc., Akron, Ohio. Household rubber gloves. 305,121; Aug. 1; Serial No. 335,385; published May 9, 1933. Class 39.

American Bemberg Corporation. (See Bemberg, I. P., Aktiengesellschaft, assignor.)

American Bemberg Corporation, New York, N. Y. Thread and yarn. 305,127; Aug. 1; Serial No. 335,343; published May 9, 1933. Class 43.

American Boy Candy Company. (See Watts, John D.)

Anchor Cap & Closure Corporation. (See Paragon Metal Cap Co.)

Anglo-American Mill Co., to Anglo-American Mill Company, Owensboro, Ky., successor. Flour-mills. 93,147; renewed Aug. 20, 1933.

Ault & Wiborg Varnish Works, Inc., The, New York, N. Y. Paints, varnishes, lacquers, etc. 305,100–5; Aug. 1; Serial Nos. 335,980–5; published May 16, 1933. Class 16.

Bemberg, I. P., Aktiengesellschaft, Wuppertal-Oberbarmen, Germany, assignor to American Bemberg Corporation, New York, N. Y. Thread and yarn. 305,090; Aug. 1; Serial No. 326,662; published May 9, 1933. Class 43.

Berkshire Knitting Mills, Wyomissing, Reading, Pa. Hosiery. 305,132–3; Aug. 1. Class 39.

Berner & Zetterström Aktiebolag, Gottenborg, Sweden. Rat poison. 305,093; Aug. 1; Serial No. 336,252; published May 16, 1933. Class 6.

Birkin & Co., assignor to Birkin & Company, Limited, Nottingham, England. Machine-made linen laces. 93,673; renewed Oct. 14, 1933.

Borden's Condensed Milk Co., to The Borden Company, New York, N. Y., by change of name. Ice-cream. 92,038; renewed June 17, 1933.

Bridge Publications, Inc., Pittsburgh, Pa. Publication. 305,131; Aug. 1. Class 38.

Brillo Manufacturing Company, Inc., Brooklyn, N. Y. Cleaning, scouring, and polishing wads, pads, cloths, etc. 305,094; Aug. 1; Serial No. 336,210; published May 16, 1933. Class 4.

Brown, Andrew, Company, Los Angeles, Calif. Paint enamels, ready-mixed cold water and paste paints, etc. 305,087; Aug. 1; Serial No. 329,978; published Oct. 25, 1932. Class 16.

Browne, E. T., Drug Co., Inc., New York, N. Y. Medicinal and toilet soap. 305,091; Aug. 1; Serial No. 325,866; published May 16, 1933. Class 4.

Buckley & Cohen, New York, N. Y. Woolen piece goods. 305,139; Aug. 1. Class 42.

Christiano, Antonio N., Mount Carmel, Pa. Preserved ham. 305,134; Aug. 1. Class 46.

Cohen, Jacob, doing business as Laundigraph Company, New York, N. Y. Printed forms. 305,107; Aug. 1; Serial No. 336,319; published May 16, 1933. Class 38.

Cole and Becker, Pasadena, Calif. Preparations in liquid or paste form. 305,116; Aug. 1; Serial No. 335,631; published May 16, 1933. Class 4.

Columbia Knitting Mills, Portland, Oreg. Sweaters, bathing suits, coats, etc. 305,077; Aug. 1; Serial No. 334,385; published May 9, 1933. Class 39.

Columbus McKinnon Chain Corporation, Tonawanda, N. Y. Tire chains. 305,137; Aug. 1. Class 13.

Creamer, Ruth, Glendale, Calif. Solvent astringents, bleach creams, deodorants, etc. 305,086; Aug. 1; Serial No. 331,144; published May 16, 1933. Class 6.

Cura Cold Capsule Co. (See Dieter, Edward J.)

Debow & Co., Newark, N. J. Eggs. 40,649; renewed June 23, 1933.

Devold, Peder, Aalesund, Norway, assignor to Peder Devold Oil Company, Inc., New York, N. Y. Cod liver oil. 40,681; renewed June 30, 1933.

Dick, Friedr., to Paul Dick, doing business as Paul F. Dick, Esslingen, Germany, successor. Cutlery, tools and parts thereof. 92,325; renewed July 1, 1932.

Dieter, Edward J., doing business as Cura Cold Capsule Co., Kentland, Ind. Medicinal preparations. 305,118; Aug. 1; Serial No. 334,913; published May 16, 1933. Class 6.

Dunhill, Alfred, of London, Inc., New York, N. Y. Cigar and cigarette cases. 305,141; Aug. 1. Class 8.

Dunlop Rubber Company, Limited, Birmingham, England. Brassières. 305,081; Aug. 1; Serial No. 333,509; published May 9, 1933. Class 39.

Eau de Cologne- & Parfümerie-Fabric, "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)

Fair, William B., Key West, Fla., assignor to W. B. Fair Export Corporation, New York, N. Y. Wheat-flour. 92,329; renewed July 1, 1933.

Felton & Son, Boston, Mass., to Felton & Son, Incorporated, Boston, and South Boston, Mass., successor. Rum. 41,223; renewed Oct. 6, 1933.

Fisher, William C., et al. (See Transfer Lumber & Shingle Co., The, assignor.)

Fitch, Charles H., et al. (See Transfer Lumber & Shingle Co., assignor.)

Fitzpatrick Bros. Inc., Chicago, Ill. Soap. 305,098–9; Aug. 1; Serial Nos. 335,860–1; published May 16, 1933. Class 4.

Forbes Lithograph Manufacturing Company, Chelsea, Mass. Printed bands and labels. 305,089; Aug. 1; Serial No. 328,002; published May 16, 1933. Class 37.

Fort Myers Citrus Growers Association, assignor to George Kingston, Fort Myers, Fla. Citrus fruits. 92,550; renewed July 15, 1933.

Gold-O-Graf Company of America, The, Baltimore, Md. Photographs and the photographic portraits. 305,111; Aug. 1; Serial No. 336,527; published May 16, 1933. Class 38.

Goodrich, B. F., Company, New York, N. Y., and Akron, Ohio, to The B. F. Goodrich Company, New York, N. Y. Flush valves of rubber. 92,335; renewed July 1, 1933.

Grant, W. T., Company, New York, N. Y. Children's shoes. 305,125; Aug. 1; Serial No. 334,797; published May 9, 1933. Class 39.

Haarer & Sons, Ann Arbor, Mich. Salves and ointments. 94,446; renewed Dec. 9, 1933.

Holbrook Mfg. Co., The, Jersey City, N. J. Soap powder. 94,449; renewed Dec. 9, 1933.

Hopkins, J. L., & Co., New York, N. Y. Capsicum, almond-meal, turmeric, etc. 94,378; renewed Dec. 2, 1933.

Imperial Condensed Milk Company, Seattle, Wash. Condensed milk. 92,079; renewed June 17, 1933.

Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany. Prints prepared on light sensative copying or photographic paper. 305,124; Aug. 1; Serial No. 334,874; published May 16, 1933. Class 38.

Karlsruher Parfumerie- und Toilletteseifen-Fabrik W. Wolff & Sohn Gesellschaft mit beschrankter Haftung. (See Wolff F., & Sohn, assignor.)

Kingston, George. (See Fort Meyers Citrus Growers Association, assignor.)

Klein Chocolate Company, Elizabethtown, Pa. Milk chocolate. 305,084; Aug. 1; Serial No. 332,008; published May 16, 1933. Class 46.

Klingenstein Co., Los Angeles, Calif. Pipes. 94,645; renewed Dec. 23, 1933.

Klotz, Victor, Paris, France, and New York; N. Y., to Pinaud Inc., New York N. Y., successor. Perfumed preparations. 40,045; renewed Apr. 7, 1933.

Knight, B. B. & R., Corporation, Providence, R. I. Cloth in the piece. 305,136; Aug. 1. Class 42.

Lambert Pharmacal Company, St. Louis, Mo., assignor to Lambert Pharmacal Company, Wilmington, Del. Liquid chemical or medical preparation. 41,413; renewed Nov. 3, 1933.
Laundigraph Company. (See Cohen, Jacob.)
La Union Agricola Sociedad Anonima, Barcelona, Spain. Liqueurs. 93,541–4; renewed Sept. 23, 1933.
La Union Agricola Sociedad Anonima, Barcelona, Spain. Liqueurs. 93,546; renewed Sept. 23, 1933.
Magazine Publishers, Inc., New York, N. Y. Magazine. 305,110; Aug. 1; Serial No. 336,522; published May 16, 1933. Class 38.
Matthews, George T., & Co., to George T. Matthews, doing business as George T. Matthews & Co., New York, N. Y., successor. Teas. 92,697; renewed July 22, 1933.
Mica Crystal Company, Warren, N. H. Poultry grit. 305,095; Aug. 1; Serial No. 336,127; published May 16, 1933. Class 1.
Morris & Fisher, St. Petersburg, Fla. Cigarettes. 305,138; Aug. 1. Class 17.
Morrison, Louis, New York, N. Y. Fountain pens and pencils. 305,109; Aug. 1; Serial No. 336,508; published May 16, 1933. Class 37.
Mülhens, Paul P., doing business as Eau de Cologne- & Parfümerie-Fabrik, "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens," Cologne, Germany. Soaps, powders, dry cleaners, etc. 305,076; Aug. 1; Serial No. 334,494; published May 16, 1933. Class 4.
Nassour Bros., Inc., Ltd., Los Angeles, Calif. Granulated soap. 305,092; Aug. 1; Serial No. 336,294; published May 16, 1933. Class 4.
National Carbon Company, Cleveland, Ohio, assignor to National Carbon Company, Inc., New York, N. Y. Dry cells, brushes, etc. 94,479; renewed Dec. 9, 1933.
National Carbon Company, Cleveland, Ohio, assignor to National Carbon Company, Inc., New York, N. Y. Dry cells. 94,480; renewed Dec. 9, 1933.
Norfolk Paint & Varnish Co., North Quincy, Mass. Paint enamels. 305,085; Aug. 1; Serial No. 331,605; published May 16, 1933. Class 16.
Northern Paper Mills, Green Bay, Wis. Toilet paper. 305,106; Aug. 1; Serial No. 336,295; published May 16, 1933. Class 37.
Pacific Coast Steamship Company, San Francisco, Calif., to Pacific Coast Steamship Company, Seattle, Wash. Guide books and souvenirs. 41,658; renewed Dec. 15, 1933.
Paragon Metal Cap Co., New York, to Anchor Cap & Closure Corporation, Long Island City, N. Y., successor. Metal caps, stoppers, and covers for jars, etc. 91,996; renewed June 10, 1933.
Pinaud Inc. (See Klotz, Victor.)
Pittsburgh Plate Glass Company, Pittsburg, Pa. Liquid and paste paints, paint primers, lacquers, etc. 305,126; Aug. 1; Serial No. 335,477; published May 16, 1933. Class 16.
Piuma, Joseph A., doing business as Piuma's Italian Pharmacy, Los Angeles, Calif. Medicinal herb tea, prophylactic preparations, etc. 305,088; Aug. 1; Serial No. 328,701; published May 16, 1933. Class 6.
Publicker Research & Development Co., Inc., Philadelphia, Pa. Chemical for laundering. 305,122; Aug. 1; Serial No. 335,211; published May 16, 1933. Class 6.
Pur-Urn Laboratories, Milwaukee, Wis. Coffee-urn purifier and carbon remover chemical preparation. 305,119; Aug. 1; Serial No. 335,291; published May 16, 1933. Class 6.
Rea Reta Paper Company, Inc., New York, N. Y. Paper, correspondence cards, facial tissues, etc. 305,115; Aug. 1; Serial No. 335,687; published May 16, 1933. Class 37.
Reliable Knitting Works, Milwaukee, Wis. Knitted footwear. 305,123; Aug. 1; Serial No. 335,214; published May 9, 1933. Class 39.
Riedel, J. D., Berlin, Germany, assignor, by mesne assignments, to Riedel & Co. Inc., Brooklyn, N. Y. Medicinal preparation. 41,440; renewed Nov. 10, 1933.
Sclafani, D. & A., Inc., New York, N. Y. Canned vegetables and olive oil. 305,140; Aug. 1. Class 46.
Sears, Roebuck and Co., Chicago, Ill. Chromium polish, top dressing, and chemically treated cloths. 305,078; Aug. 1; Serial No. 334,370; published May 16, 1933. Class 4.
Sears, Roebuck and Co., Chicago, Ill. Toilet soap, stove polish, and auto body cleaner. 305,096; Aug. 1; Serial No. 335,696; published May 16, 1933. Class 4.
Sears, Roebuck and Co., Chicago, Ill. Sewing thread and yarn. 305,117; Aug. 1; Serial No. 335,492; published May 9, 1933. Class 48.
Sherwood Distilling & Distributing Co., The, Baltimore, Md. Whisky. 305,126–30; Aug. 1. Class 49.
Simon, I., Company, New York, N. Y. Shoes. 305,083; Aug. 1; Serial No. 333,249; published May 9, 1933. Class 39.
Sincera Research, Inc., New York, N. Y. Toilet, face, cold, etc., cream and the like. 305,108; Aug. 1; published May 23, 1933. Class 6.
Society of Chemical Industry in Basle, Basel, Switzerland. Pharmaceutical product. 92,732; renewed July 22, 1933.
Staatlich Sächsische Hütten-und Blaufarbenwerke, Freiberg, Germany. Arsenic-compounds, blue vitriol, etc. 305,082; Aug. 1; Serial No. 333,418; published May 16, 1933. Class 6.
Stakwich Company. (See Stoutenburg, Marium N.)
Steinberger Bros. Inc., New York, N. Y. Wool, worsted, Angora, etc., yarn. 305,080; Aug. 1; Serial No. 334,167; published May 9, 1933. Class 43.
Stoutenburg, Marium N., doing business as Stakwich Company, Lansing, Mich. Steak and prepared sandwiches. 305,112; Aug. 1; Serial No. 335,552; published May 16, 1933. Class 46.
Stover Manufacturing Company, to Stover Manufacturing & Engine Co., Freeport, Ill. Windmills. 40,464; renewed May 26, 1933.
Transfer Lumber & Shingle Co., assignor to Charles H. Fitch and William C. Fisher, as assignees for the benefit of the Creditors of Weatherbest Stained Shingle Co., Inc., North Tonawanda, N. Y. Lumber, flooring, siding, and shingles. 92,013; renewed June 10, 1933.
Transue & Williams Steel Forging Corporation, Wilmington, Del., and Alliance, Ohio. Truck casters. 305,135; Aug. 1. Class 19.
Tucapau Mills, Tucapau, S. C. Piece goods of jute and cotton, etc. 305,142; Aug. 1. Class 42.
Uncas Silk Company, New York, N. Y. Spools or reels of sewing thread. 305,120; Aug. 1; Serial No. 334,781; published May 16, 1933. Class 48.
Union Thread Company, The, Cincinnati, Ohio. Thread. 305,118; Aug. 1; Serial No. 335,222; published May 9, 1933. Class 48.
Watts, John D., doing business as American Boy Candy Company, Detroit, Mich. Candy. 305,114; Aug. 1; Serial No. 335,656; published May 16, 1933. Class 46.
Weatherbest Stained Shingle Co., Creditors of. (See Transfer Lumber & Shingle Co., The, assignor.)
Williams, R. C., & Co., Inc., New York, N. Y. Creole sauce. 305,097; Aug. 1; Serial No. 335,756; published May 16, 1933. Class 46.
Wolff, F., & Sohn, assignor to Karlsruher Perfumerie und Toilettenseifen-Fabrik F. Wolff & Sohn Gesellschaft mit beschrankter Haftung, Karlsruhe, Germany. Toilet preparations. 68,629; renewed Apr. 21, 1928.

LIST OF REGISTRANTS OF LABELS

American Soya Products Corporation, Evansville, Ind. Feldman's Nusoy. For Bread. 42,449; Aug. 1.
Bird & Son, Inc., East Walpole, Mass. Feltman and Curme. For Shoes. 42,450; Aug. 1.
Bird & Son, Inc., East Walpole, Mass. Girl Scout Official Shoe. For Shoes. 42,451; Aug. 1.
Caulk, L. D., Company, The, Milford, Del. Rok The Stone Hard Plaster. For Plaster for Making Dental and Like Models. 42,452; Aug. 1.
Defiance Products Company. (See Shriner, Lee R.)
Freihofer, Wm., Baking Company, Philadelphia, Pa. Freihofer's 100% Whole Wheat. For Bread. 42,453; Aug. 1.
Freihofer, Wm., Baking Co., Philadelphia, Pa. Butter Krust. For Bread. 42,454; Aug. 1.
Haley, J. W., Indianapolis, Ind. World Fair Bread. For Bread. 42,455; Aug. 1.
Hers Cup Company, Incorporated, New York, N. Y. Sunshine Cups. For Paper Drinking Cups. 42,456; Aug. 1.
Hill, Darrell, Baltimore, Md. Hillite. For Athlete's Foot. 42,457; Aug. 1.
L. & C. Mfg. Co., New York, N. Y. Nitebilt. For Night Gowns and Pajamas. 42,458; Aug. 1.
Leavitt, Louis, Corporation, Brooklyn, N. Y. Gold-Spar Flat Oil Paint. For Paint. 42,459; Aug. 1.
Lerner, Max, Jackson Heights, Long Island, N. Y. Codee Cough Syrup. For Cough Syrup. 42,460; Aug. 1.
Mendenhall, A. W., Company, Kansas City, Mo., and Chicago, Ill. A B C. For Bathroom Tissue. 42,462; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Foot Health Headquarters Modern Orthopedic Footwear. For Footwear. 42,461; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Kats Sixth Avenue New York Smart Shoes. For Shoes. 42,463; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Floyd Shoes. For Shoes. 42,464; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Crosby Shoes. For Shoes. 42,465; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Best Beautiful Shoes, Best Shoe Co. Boston. For Shoes. 42,466; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Vanity Boot Shop Inc., Customode Shoes. For Shoes. 42,467; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. M. J. Saks Shoe Corp New York Smart Shoes. For Shoes. 42,468; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Golo Smart Shoes. For Shoes. 42,469; Aug. 1.

Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Arnold Constable. For Shoes. 42,470; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Mary Ann Star Shoes. For Shoes. 42,471; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Crescent Beautiful shoes. For Shoes. 42,472; Aug. 1.
Meyer, Frank C., Co., Inc. Brooklyn, N. Y. Crescent Modern Vogue Exquisite Shoes. For Shoes. 42,473; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Marlene Modern Modes, The T-S Smart Shoes. For Shoes. 42,474; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Kitty Kelly Beautiful Shoes Hosiery to Match. For Shoes. 42,475; Aug 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Brooklyn Maid Smart Style, Nu Way Shoe Co., New York Always Something Nu. For Shoes. 42,476; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Merchants Shoes, Boston Style Quality. For Shoes. 42,477; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Mary Jane M J Hosiery to Match. For Shoes. 42,478; Aug. 1.
Meyer, Frank C., Co., Inc. Brooklyn, N. Y. Strawbridge & Clothier Fine Shoes. For Shoes. 42,479; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Lazarus Fried & Sons Inc., New York Snappy Styles for the Smart "La Parisienne". For Shoes. 42,480; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Smart Shoes. For Shoes. 42,481; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Jay Bee Styles Personality Shoes "A Thrill in Every Step". 42,482; Aug. 1.
Meyer, Frank C., Co., Inc., Brooklyn, N. Y. The Jacobson Bros. Equisite Footwear Inc. For Shoes. 42,483; Aug. 1.
Real Silk Hosiery Mills, Inc., Indianapolis, Ind. Real Silk. For Socks. 42,484; Aug. 1.
San Gabriel Vineyard Company, San Gabriel, Calif. Wines of Old San Gabriel. For Wine. 42,485; Aug. 1.
Savarese Company, The. (See Tamburo, S. E.)
Scheuer, George, Incorporated, Scranton, Pa. Scheuer's Betty Crocker Sunshine. For Cake. 42,486; Aug. 1.
Shriner, Lee R., doing business as Defiance Products Company, Huntington Park, Calif. It the Magic Cleaner. For Cleaning Powder. 42,487; Aug. 1.
Smith & Sons Corporation, Buffalo, N. Y. Victory Bobs. For Hair Pins. 42,488; Aug. 1.
Standard Brands Incorporated, New York, N. Y. Fleischmann's. For Irradiated Dry Yeast for Dogs and Other Animals. 42,489; Aug. 1.
Stempel Specialty Company, Fort Madison, Iowa. Dr. Stempel's Toothache Plaster—Stop That Toothache. For Toothache Plasters. For Toothache Plasters. 42,490; Aug. 1.
Stroehmann Brothers Company, Harrisburg, Pa. Stroehmann's Betty Crocker Orange Layer. For Cake. 42,491; Aug. 1.
Tambaro, S. E., doing business as The Savarese Company, Pittsburgh, Pa. Bel Sole. For Olive Oil. 42,492; Aug. 1.
United States Printing Co., The, Brooklyn, N. Y., by change of name to The United States Printing & Lithograph Company, Norwood, Cincinnati, Ohio. Pyramid Cream Corn. For Canned Corn. 12,295; renewed Aug. 1, 1933.
United States Printing Co., The, Brooklyn, N. Y., by change of name to The United States Printing & Lithograph Company, Norwood, Cincinnati, Ohio. Northern Queen Sugar Corn. For Canned Corn. 12,296; renewed Aug. 1, 1933.
United States Printing & Lithograph Company, The. (See United States Printing Co.)
Vortex Cup Company, Chicago, Ill. Vortex Twinkles. For Paper Cups. 42,493; Aug. 1.
Western Petroleum Company, Philadelphia, Pa. Blue-Sealex. For Petroleum Jelly. 42,494; Aug. 1.

LIST OF REGISTRANTS OF PRINTS

General Mills, Inc., Minneapolis, Minn. Betty Bright. For Biscuit Flour. 14,281; Aug. 1.
Hers Laboratories, Inc., New York, N. Y. Important. For Depilatory. 14,282; Aug. 1.
McLelland, Flora, Detroit, Mich. Flora McLelland Health Foods. For Health Foods. 14,283; Aug. 1.
Parke, Davis & Company, Detroit, Mich. Neko. For Germicidal Soap. 14,283; Aug. 1.
Parke, Davis & Company, Detroit, Mich. Mineral Oil. For Mineral Oil. 14,284; Aug. 1.
Parke, Davis & Company, Detroit, Mich. Worm Capsules. For Worm Capsules for Animals. 14,285; Aug. 1.
Parke, Davis & Company, Detroit, Mich. Hydrogen Peroxide. For Hydrogen Peroxide. 14,286; Aug. 1.
Parke, Davis & Company, Detroit, Mich. 500 Times Sweeter than Sugar. For Saccharin Tablets. 14,287; Aug. 1.
Parke, Davis & Company, Detroit, Mich. Stop Coughing. For Medicated Throat Discs. 14,288; Aug. 1.
Parke, Davis & Company, Detroit, Mich. Milk of Magnesia. For Milk of Magnesia. 14,289; Aug. 1.
Parke, Davis & Company, Detroit, Mich. Cod-Liver Oil. For Cod-Liver Oil. 14,290; Aug. 1.
Parke, Davis & Company, Detroit, Mich. Haliver Oil. For Haliver Oil. 14,291; Aug. 1.
Stempel Specialty Co., Fort Madison, Iowa. Stop that Toothache—Dr. Stempel's Toothache Plasters. For Toothache Plasters. 14,292; Aug. 1.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Grit, Poultry. Mica Crystal Company. 305,095; Aug. 1; Serial No. 336,127; published May 16, 1933.

CLASS 4

Polish, top dressing, and chemically treated cloths, Chromium. Sears, Roebuck and Co. 305,078; Aug. 1; Serial No. 334,370; published May 16, 1933.
Preparations in liquid or paste form. Cole and Becker. 305,116; Aug. 1; Serial No. 335,631; published May 16, 1933.
Soap. Fitzpatrick Bros. Inc. 305,098–9; Aug. 1; Serial Nos. 335,860–1; published May 16, 1933.
Soap, Granulated. Nassour Bros., Inc. 305,092; Aug. 1; Serial No. 336,294; published May 16, 1933.
Soap, Medicinal and toilet. E. T. Browne Drug Co. 305,091; Aug. 1; Serial No. 325,866; published May 16, 1933.
Soap powder. Holbrook Mfg. Co. 94,449; renewed Dec. 9, 1933.
Soap, stove polish, and auto body cleaner, Toilet. Sears, Roebuck and Co. 305,096; Aug. 1; Serial No. 335,696; published May 16, 1933.
Soaps, powders, dry cleaners, etc. P. P. Mülhens. 305,076; Aug. 1; Serial No. 334,494; published May 16, 1933.
Wads, pads, cloths, etc. Brillo Manufacturing Company. 305,094; Aug. 1; Serial No. 336,210; published May 16, 1933.

CLASS 6

Arsenic compounds, blue vitriol, etc. Staatlich Sächsische, Hütten- und Blaufarbenwerke. 305,082; Aug. 1; Serial No. 333,418; published May 16, 1933.
Astringents, bleach creams, deodorants, etc., Solvent. R. Creamer. 305,086; Aug. 1; Serial No. 331,144; published May 16, 1933.
Capsicum, almond-meal, turmeric, etc. J. L. Hopkins & Co. 94,378; renewed Dec. 2, 1933.
Chemical for laundering. Publicker Research & Development Co. 305,122; Aug. 1; Serial No. 335,211; published May 16, 1933.
Chemical preparation, Coffee-urn purifier and carbon remover. Pur-Urn Laboratories. 305,119; Aug. 1; Serial No. 335,291; published May 16, 1933.
Cod liver oil. P. Devold. 40,681; renewed June 30, 1933.
Cream and the like, Toilet, face, cold, etc. Sincera Research, Inc. 305,108; Aug. 1; Serial No. 336,377; published May 23, 1933.
Liquid chemical or medical preparation. Lambert Pharmacal Company. 41,413; renewed Nov. 3, 1933.
Medicinal herb tea, prophylactic preparations, etc. J. A. Piuma. 305,088; Aug. 1; Serial No. 328,701; published May 16, 1933.
Medicinal preparation. J. D. Riedel. 41,440; renewed Nov. 10, 1933.
Medicinal preparations. E. J. Dieter. 305,113; Aug. 1; Serial No. 334,913; published May 16, 1933.
Pharmaceutical product. Society of Chemical Industry in Basle. 92,732; renewed July 22, 1933.
Poison, Rat. Berner & Zetterström Aktiebolag. 305,093; Aug. 1; Serial No. 336,252; published May 16, 1933.
Preparation for the treatment of kidney, dropsy, etc., diseases. H. Albersmeier. 305,079; Aug. 1; Serial No. 334,277; published May 16, 1933.
Preparations, Perfumed. V. Klotz. 40,045; renewed Apr. 7, 1933.
Salves and ointments. Haarer & Sons. 94,446; renewed Dec. 9, 1933.
Toilet preparations. F. Wolff & Sohn. 68,629; renewed Apr. 21, 1928.

CLASS 8

Cigar and cigarette cases. Alfred Dunhill of London, Inc. 305,141; Aug. 1.
Pipes. Klingenstein Co. 94,645; renewed Dec. 23, 1933.

CLASS 12

Lumber, flooring, siding and shingles. Transfer Lumber & Shingle Co. 92,013; renewed June 10, 1933.

CLASS 13

Chains, Tire. Columbus McKinnon Chain Corporation. 305,137; Aug. 1.

CLASS 16

Enamels, Paint. Norfolk Paint & Varnish Co. 305,085; Aug. 1; Serial No. 331,605; published May 16, 1933.
Enamels, varnishes, lacquers, Paint. Andrew Brown Company. 305,087; Aug. 1; Serial No. 329,978; published Oct. 25, 1932.
Paints, paint primers, lacquers, etc., Liquid and paste. Pittsburgh Plate Glass Company. 305,126; Aug. 1; Serial No. 335,477; published May 16, 1933.
Paints, varnishes lacquers, etc. Ault & Wiborg Varnish Works, Inc. 305,100–5; Aug. 1; Serial Nos. 335,980–5; published May 16, 1933.

CLASS 17

Cigarettes. Morris & Fisher. 305,138; Aug. 1.

CLASS 19

Casters, Truck. Transue & Williams Steel Forging Corporation. 305,135; Aug. 1.

CLASS 21

Dry cells. National Carbon Company. 94,480; renewed Dec. 9, 1933.
Dry cells, brushes, etc. National Carbon Company. 94,479; renewed Dec. 9, 1933.

CLASS 23

Cutlery, tools, and parts thereof. F. Dick. 92,325; renewed July 1, 1933.
Flour-mills, Self-contained. Anglo-American Mills Co. 93,149; renewed Aug. 26, 1933.
Windmills. Stover Manufacturing Company. 40,464; renewed May 16, 1933.

CLASS 30

Delftware and chinaware. Aktieselskabet Aluminia. 40,572; renewed June 9, 1933.

CLASS 35

Valves made of rubber, Flush. B. F. Goodrich Company. 92,335; renewed July 1, 1933.

CLASS 37

Bands and labels, Printed. Forbes Lithograph Manufacturing Company 305,089; Aug. 1; Serial No. 328,002; published May 16, 1933.
Paper, Correspondence cards, facial tissue, etc. Rea Reta Paper Company. 305,115; Aug. 1; Serial No. 335,687; published May 16, 1933.
Pens and pencils, Fountain. L. Morrison. 305,109; Aug. 1; Serial No. 336,508; published May 16, 1933.
Toilet paper. Northern Paper Mills. 305,106; Aug. 1; Serial No. 336,295; published May 16, 1933.

CLASS 38

Forms, Printed. J. Cohen. 305,107; Aug. 1; Serial No. 336,319; published May 16, 1933.
Guide books and illustrated souvenirs. Pacific Coast Steamship Company. 41,658; renewed Dec. 15, 1933.
Magazine. Magazine Publishers, Inc. 305,110; Aug. 1; Serial No. 336,522; published May 16, 1933.
Photographs and photographic portraits. Gold-O-Graf Company of America. 305,111; Aug. 1; Serial No. 336,527; published May 16, 1933.
Prints prepared on light sensitive copying or photographic paper. Kalle & Co. Aktiengesellschaft. 305,124; Aug. 1; Serial No. 334,874; published May 16, 1933.
Publication. Bridge Publications, Inc. 305,131; Aug. 1.

CLASS 39

Brassières. Dunlop Rubber Company. 305,081; Aug. 1; Serial No. 333,509; published May 9, 1933.
Footwear, Knitted. Reliable Knitting Works. 305,123; Aug. 1; Serial No. 335,214; published May 9, 1933.
Gloves, Household rubber. American Anode Inc. 305,121; Aug. 1; Serial No. 335,385; published May 9, 1933.
Hosiery, Berkshire Knitting Mills. 305,132–3; Aug. 1.
Shoes. W. T. Grant Company. 305,125; Aug. 1; Serial No. 334,797; published May 9, 1933.
Shoes. I. Simon Company. 305,083; Aug. 1; Serial No. 333,249; published May 9, 1933.
Sweaters, bathing suits, coats, etc. Columbia Knitting Mills. 305,077; Aug. 1; Serial No. 334,385; published May 9, 1933.

CLASS 42

Cloth in the piece. B. B. & R. Knight Corporation. 305,136; Aug. 1.
Linen laces, Machine-made. Birkin & Co. 93,673; renewed Oct. 14, 1933.
Piece goods of jute and cotton, etc. Tucapau Mills. 305,142; Aug. 1.
Woolen piece goods. Buckley & Cohen. 305,139; Aug. 1.

CLASS 43

Thread. Union Thread Company. 305,118; Aug. 1; Serial No. 335,222; published May 9, 1933.
Thread and yarn. American Bemberg Corporation. 305,127; Aug. 1; Serial No. 335,343; published May 9, 1933.
Thread and yarn. I. P. Bemberg Aktiengesellschaft. 305,090; Aug. 1; Serial No. 326,662; published May 9, 1933.
Thread and yarn, Sewing. Sears, Roebuck and Co. 305,117; Aug. 1; Serial No. 335,492; published May 9, 1933.
Thread, Spools or reels of sewing. Uncas Silk Company. 305,120; Aug. 1; Serial No. 334,781; published May 16, 1933.
Yarn, Wool, worsted, Angora, etc. Steinberger Bros. Inc. 305,080; Aug. 1; Serial No. 334,167; published May 9, 1933.

CLASS 46

Candy. J. D. Watts. 305,114; Aug. 1; Serial No. 335,656; published May 16, 1933.
Canned vegetables and olive oil. D. & A. Sciafani, Inc. 305,140; Aug. 1.
Eggs. Debow & Co. 40,649; renewed June 23, 1933.
Flour, Wheat. W. B. Fair. 92,329; renewed July 1, 1933.
Fruits, Citrus. Fort Myers Citrus Growers Association. 92,550; renewed July 15, 1933.
Ham, Preserved. A. N. Christiano. 305,134; Aug. 1.
Ice-cream. Borden's Condensed Milk Co. 92,038; renewed June 17, 1933.
Milk chocolate. Klein Chocolate Company. 305,084; Aug. 1; Serial No. 332,008; published May 16, 1933.
Milk, Condensed. Imperial Condensed Milk Company. 92,079; renewed June 17, 1933.
Sandwiches, Steak and prepared. M. N. Stoutenburg. 305,112; Aug. 1; Serial No. 335,652; published May 16, 1933.
Sauce, Creole. R. C. Williams & Co. 305,097; Aug. 1; Serial No. 335,756; published May 16, 1933.
Teas. George T. Matthews & Co. 92,697; renewed July 22, 1933.

CLASS 49

Liqueurs. La Union Agricola Sociedad Anonima. 93,541–4; renewed Sept. 23, 1933.
Liqueurs. La Union Agricola Sociedad Anonima. 93,540; renewed Sept. 23, 1933.
Rum. Felton & Son. 41,223; renewed Oct. 6, 1933.
Whisky. Sherwood Distilling & Distributing Co. 305,128–30; Aug. 1.

CLASS 50

Caps, stoppers, and covers for jars, etc., Metal. Paragon Metal Cap Co. 91,996; renewed June 10, 1933.

LIST OF LABELS

A B. C. For Bathroom Tissue. A. W. Mendenhall Company. 42,462; Aug. 1.
Arnold Constable. For Shoes. Frank C. Meyer Co., Inc. 42,470; Aug. 1.
Bel Sole. For Olive Oil. S. E. Tamburo. 42,492; Aug. 1.
Best Beautiful Shoes, Best Shoe Co. Boston. For Shoes. Frank C. Meyer Co., Inc. 46,466; Aug. 1.
Blue-Sealex. For Petroleum Jelly. Western Petroleum Company. 42,494; Aug. 1.
Brooklyn Maid Smart Style, Nu Way Shoe Co., New York Always Something Nu. For Shoes. Frank C. Meyer Co., Inc. 42,476; Aug. 1.
Butter Krust. For Bread. Wm. Freihofer Baking Co. 42,454; Aug. 1.
Codee Cough Syrup. For Cough Syrup. M. Lerner. 42,460; Aug. 1.
Crescent Beautiful Shoes. For Shoes. Frank C. Meyer Co., Inc. 42,472; Aug. 1.
Crescent Modern Vogue Exquisite Shoes. For Shoes. Frank C. Meyer Co., Inc. 42,473; Aug. 1.
Crosby Shoes. For Shoes. Frank C. Meyer Co., Inc. 46,465; Aug. 1.
Dr. Stempel's Toothache Plasters—Stop That Toothache. For Toothache Plasters. Stempel Specialty Company. 42,490; Aug. 1.
Feldman's Nusoy. For Bread. American Soya Products Corporation. 42,449; Aug. 1.
Feltman and Curme. For Shoes. Bird & Son, Inc. 42,450; Aug. 1.
Fleischmann's. For Irradiated Dry Yeast For Dogs and Other Animals. Standard Brands Incorporated. 42,489; Aug. 1.

Floyd Shoes. For Shoes. Frank C. Meyer Co. 42,464; Aug. 1.
Foot Health Headquarters Modern Orthopedic Footwear. For Footwear. Frank C. Meyer Co., Inc. 42,461; Aug. 1.
Freihofer's 100% Whole Wheat. For Bread. Wm. Freihofer Baking Company. 42,453; Aug. 1.
Girl Scout Official Shoe. For Shoes. Bird & Son, Inc. 42,451; Aug. 1.
Gold-Spar Flat Oil Paint. For Paint. Louis Leavitt Corporation. 42,459; Aug. 1.
Golo Smart Shoes. For Shoes. Frank C. Meyer Co., Inc., 42,469; Aug. 1.
Hillite. For Athlete's Foot. D. Hill. 42,457; Aug. 1.
It The Magic Cleaner. For Cleaning Powder. L. R. Shriner. 42,487; Aug. 1.
Jay Bee Styles Personality Shoes "A Thrill in Every Step". For Shoes. Frank C. Meyer Co. 42,482; Aug. 1.
Kats Sixth Avenue New York Smart Shoes. For Shoes. Frank C. Meyer Co., Inc. 42,463; Aug. 1.
Kitty Kelly Beautiful Shoes Hosiery to Match. For Shoes. Frank C. Meyer Co., Inc. 42,475; Aug. 1.
Lazarus Fried & Sons Inc., New York Snappy Styles for the Smart "La Parisienne". For Shoes. Frank C. Meyer Co., Inc. 42,480; Aug. 1.
M. J. Saks Shoe Corp. New York Smart Shoes. For Shoes. Frank C. Meyer Co., Inc. 42,468; Aug. 1.
Marlene Modern Modes, The T-S Smart Shoes. For Shoes. Frank C. Meyer Co., Inc. 42,474; Aug. 1.
Mary Ann Star Shoes. For Shoes. Frank C. Meyer Co., Inc. 42,471; Aug. 1.
Mary Jane M J Hosiery to Match. For Shoes. Frank C. Meyer Co., Inc. 42,478; Aug. 1.
Merchants Shoes, Boston Style Quality. For Shoes. Frank C. Meyer Co., Inc. 42,477; Aug. 1.
Nitebilt. For Night Gowns and Pajamas. L. & C. Mfg. Co. 42,458; Aug. 1.
Northern Queen Sugar Corn. For Canned Corn. United States Printing Co. 12,296; renewed Aug. 1, 1933.
Pyramid Cream Corn. For Canned Corn. United States Printing Co. 12,295; renewed Aug. 1, 1933.
Real Silk. For Socks. Real Silk Hosiery Mills, Inc. 42,484; Aug. 1.
Rok The Stone Hard Plaster. For Plaster for Making Dental and Like Models. L. D. Caulk Company. 42,452; Aug. 1.
Scheuer's Betty Crocker Sunshine. For Cake. George Scheuer, Incorporated. 42,486; Aug. 1.
Smart Shoes. For Shoes. Frank C. Meyer Co., Inc. 42,481; Aug. 1.
Strawbridge & Clothier Fine Shoes. For Shoes. Frank C. Meyer Co., Inc. 42,479; Aug. 1.
Stroehmann's Betty Crocker Orange Layer. For Cake. Stroehmann Brothers Company. 42,491; Aug. 1.
Sunshine Cups. For Paper Drinking Cups. Hers Cup Company. 42,456; Aug. 1.
The Jacobson Bros. Exquisite Footwear Inc. For Shoes. Frank C. Meyer Co., Inc. 42,483; Aug. 1.
Vanity Boot Shop Inc. Customode Shoes. For Shoes. Frank C. Meyer Co., Inc. 42,467; Aug. 1.
Victory Bobs. For Hair Pins. Smith & Sons Corporation. 42,488; Aug. 1.
Vortex Twinkles. For Paper Cups. Vortex Cup Company. 42,493; Aug. 1.
Wines of Old San Gabriel. For Wine. San Gabriel Vineyard Company. 42,485; Aug. 1.
World Fair Bread. For Bread. J. W. Haley. 42,455; Aug. 1.

LIST OF PRINTS

Betty Bright. For Biscuit Flour. General Mills, Inc. 14,281; Aug. 1.
Cod-Liver Oil. For Cod-Liver Oil. Parke, Davis & Company. 14,290; Aug. 1.
500 Times Sweeter than Sugar. For Saccharine Tablets. Parke, Davis & Company. 14,287; Aug. 1.
Flora McLelland Health Foods. For Health Foods. Flora McLelland. 14,293; Aug. 1.
Haliver Oil. For Haliver Oil. Parke, Davis & Company. 14,291; Aug. 1.
Hydrogen Peroxide. For Hydrogen Peroxide. Parke, Davis & Company. 14,286; Aug. 1.
Important. For Depilatory. Hers Laboratories, Inc. 14,282; Aug. 1.
Milk of Magnesia. For Milk of Magnesia. Parke, Davis & Company. 14,289; Aug. 1.
Mineral Oil. For Mineral Oil. Parke, Davis & Company. 14,284; Aug. 1.
Neko. For Germicidal Soap. Parke, Davis & Company. 14,283; Aug. 1.
Stop Coughing. For Medicated Throat Discs. Parke, Davis & Company. 14,288; Aug. 1.
Stop that Toothache—Dr. Stempel's Toothache Plasters. For Toothache Plasters. Stempel Specialty Co. 14,292; Aug. 1.
Worm Capsules. For Worm Capsules for Animals. Parke, Davis & Company. 14,285; Aug. 1.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1ST DAY OF AUGUST, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbott Laboratories. (See Raizes, George W., assignor.)
Ackerman, William, Towners, and G. P. Kingsbury, Hollis, N. Y., assignors to Mergenthaler Linotype Company. Typographical composing machine. 1,920,832; Aug. 1.
Adler, Lee E., Dallas, Tex. Transmission testing apparatus. 1,920,456; Aug. 1.
Adler, Leon, St. Louis, Mo. Color preparation for butter, oleomargarine, etc. 1,920,231; Aug. 1.
Advance Manufacturing Company. (See Poggel, George E., assignor.)
Aetna Rubber Company, The. (See Fulton, Alfred C., assignor.)
Aichele, Gottlob, Nellingen, near Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Untertürkheim, Germany. Die casting machine. 1,920,620; Aug. 1.
Akron Lamp Company, The. (See Hoff, Chester A., assignor.)
Aktiebolaget Nomy. (See Wallgren, August G. F., assignor.)
Aktiebolaget Nomy. (See Wallgren, A. G. F., and Janson, assignors.)
Aktiengesellschaft Brown, Boveri & Cie. (See Baumann, Adolf, assignor.)
Alexander, Peter P., Marblehead, Mass., assignor to General Electric Company. Automatic arc welding apparatus. 1,920,734; Aug. 1.
Allen-Bradley Company. (See Petersen, Hans, assignor.)
Allen, George W., assignor to B. F. Sturtevant Company, Hyde Park, Mass. Hose connecter for vacuum cleaners. 1,920,621; Aug. 1.
Allen, Henry H., Huntington Bay, N. Y., assignor to Bemis Bro. Bag Company, St. Louis, Mo. Bag. Re16,906; Aug. 1.
Allen, William R., Shaker Heights Village, Ohio, assignor, by mesne assignments, to Multigraph Company, Wilmington, Del. Numbering attachment for printing machines. 1,920,232; Aug. 1.
Aluminum Company of America. (See Archer, R. S., and Kempe, assignors.)
Aluminum Company of America. (See Arthur, Furman C., assignor.)
Aluminum Company of America. (See Dean, Walter A., assignor.)
Aluminum Company of America. (See Kempf, L. W., and Dean, assignors.)
American Arch Company. (See Siegel, C. A., and Neff, assignors.)
American Bemberg Corporation. (See Mutti, Ido, assignor.)
American Bemberg Corporation. (See Zur Löwen, Waldemar, assignor.)
American Blower Corporation. (See Andersen, Edward L., assignor.)
American Can Company. (See Hothersall, John M., assignor.)
American Can Company. (See Young, John M., assignor.)
American Chemical Paint Company. (See Douty, Alfred, assignor.)
American Glanzstoff Corporation. (See Beplate, Viktor, assignor.)
American Radiator & Standard Sanitary Corporation. (See Bennett, Irving T., assignor.)
American Radiator & Standard Sanitary Corporation. (See Bennett, I. T., and Reynolds, assignors.)
American Smelting and Refining Company. (See Rose, Charles A., assignor.)
American Smelting & Refining Company. (See Rose, C. A., and O'Harra, assignors.)
American Telephone and Telegraph Company. (See Watson, Edward F., assignor.)
American Telephone and Telegraph Company. (See Weaver, Allan, assignor.)
Amrad Corporation, The. (See Lilienfeld, Julius E., assignor.)
Anderson, Edward L., Grosse Ile, assignor to American Blower Corporation, Detroit, Mich. Fan. 1,920,643; Aug. 1.
Anderson, Eric L. (See Cook, E., and Anderson.)
Anderson, James W., Berkeley, assignor to Anderson Manufacturing Company, Hollywood, Calif. Apparatus for making medley pictures. 1,920,671; Aug. 1.
Anderson Manufacturing Company. (See Anderson, James W., assignor.)
Anderson, Teames C., Ruthton, Minn. Receptacle closure. 1,920,672; Aug. 1.
Andrews, Edward F. (See Beane, E. A., and Andrews.)
Andrie, Michael B., assignor to W. B. Jarvis Company, Grand Rapids, Mich. Closure. 1,920,833; Aug. 1.
Andvig, Hans, Oslo, Norway. Mouth cleansing device. 1,920,165; Aug. 1.
Archer, Robert S., Lakewood, and L. W. Kempf, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa. Aluminum-copper piston alloy. 1,920,238; Aug. 1.
Arden Box Toe Company. (See Lovell, Stanley P., assignor.)
Armstrong Cork Company. (See Wilmet, Georges, assignor.)
Armstrong, Walter J., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Rotary material reducing machine. 1,920,946; Aug. 1.
Armstrong, Walter J., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Rotary material reducing machine. 1,920,947; Aug. 1.
Arthur, Furman C., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Producing aluminum bronze powder and lubricants therefor. 1,920,224; Aug. 1.
Art Metal Construction Company. (See Jones, James R., assignor.)
Ashbaugh, John H., Longmeadow, Mass., and R. A. Geiselman, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Automatic regulating system. 1,920,544; Aug. 1.
Ashworth, Fred, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Rand forming machine. 1,920,235; Aug. 1.
Askania-Werke Akt. Ges. vorm Centralwerkstatt Desau and Carl Bamberg-Friedenau. (See Wünsch, Guido, assignor.)
Associated Electrical Industries Limited. See Hosseason, Donald E., assignor.)
Associated Electric Laboratories, Inc. (See Hudd, Alfred E., assignor.)
Associated Electric Laboratories, Inc. (See Obergfell, Herbert F., assignor.)
Associated Electric Laboratories, Inc. (See Petersen, Edward S., assignor.)
Associated Electric Laboratories, Inc. (See Wicks, J. and Evers, assignors.)
Associated Engineering and Supply Company. (See Stewart, Carlton D., assignor.)
Associated Engineering and Supply Company. (See Stewart, Carlton D., assignor.)
Athey Truss Wheel Co. (See Kuchar, Joseph, assignor.)
Atlantic Coast Fisheries Company. (See Taylor, Harden F., assignor.)
Atwood, John T., assignor to Reynolds Spring Company, Jackson, Mich. Spring cushion. 1,920,176; Aug. 1.
Automatic Phonograph Corporation. (See Miller, W. E. and Sheubrooks, assignors.)
Ayers, Fred L., Portland, Maine. Shoe and making the same. 1,920,833; Aug. 1.
Ayers, Raymond W., Roseburg, Oreg. Belt buckle. 1,920,834; Aug. 1.
Baader, Rudolf, Lubeck, Germany. Fish dressing machine. 1,920,839; Aug. 1.
Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
Bachman, Paul W. (See Weigel, R., and Bachman.)
Bailey, Frank W., S. F. W. Crundall and H. Spence, assignors to Peter Spence & Sons, Limited, Manchester, England. Manufacture of coated papers. 1,920,240; Aug. 1.
Bailey, William M., Lynn, Mass., assignor, by mesne assignments, to General Electric Company. Capacitor. 1,920,177; Aug. 1.
Baker, James N., assignor to The Black & Decker Manufacturing Company, Towson, Md. Air circulating means for portable hammers. 1,920,673; Aug. 1.
Bakonyi, Stefan, Dessau, assignor to Deutsche Hydrierwerke A.-G., Berlin-Charlottenburg, Germany. Effecting bacterial fermentation without multiplying the cells. 1,920,735; Aug. 1.
Bakonyi, Stefan, Dessau, assignor to Deutsche Hydrierwerke A.-G., Berlin-Charlottenburg, Germany. Carrying out fermentations and similar biochemical reactions by means of bacteria. 1,920,736; Aug. 1.
Ballard, Harrie A., Beverly, Mass., assignor to The Turner Tanning Machinery Company, Portland, Maine. Machine for operating upon hides, skins and leather. 1,920,841; Aug. 1.
Bancroft, James E., Detroit, Mich., assignor, by mesne assignments, to The Peelle Company, New York, N. Y. Door operating mechanism. 1,920,835; Aug. 1.
Barbarou, Marius J-B., Neuilly-sur-Seine, France. Variable pitch propeller. 1,920,674; Aug. 1.

Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Traveling offset web controlling mechanism for multicolor printing presses. 1,920,178; Aug. 1.

Barco Manufacturing Co. (See McGuirk, Charles W. assignor.)

Bard, Francis N. (See Marsh, Joseph R. C., assignor.)

Bard, Francis N., Highland Park, Ill. Pipe coupling. 1,920,545; Aug. 1.

Barling, Frank D., Linden, Calif. Conveyor stairs. 1,920,457; Aug. 1.

Barnes, Joseph H., assignor of one-third to Delaware Rayon Company, and one-third to L. H. Ryan, New Castle, Del. Cone winding apparatus. 1,920,836; Aug. 1.

Barr, John H., asignor to Barr-Morse Corporation, Ithaca, N. Y. Typewriter. 1,920,777; Aug. 1.

Barr-Morse Corporation. (See Barr, John H., assignor.)

Barrett Company, The. (See Miller, Stuart P., assignor.)

Barrett Company, The. (See Zavertnik, J., and MacCubbin, assignors.)

Bash, Thomas B., Kansas City, Mo. Eye nut. 1,920,498; Aug. 1.

Bast, Frank J., Queens Village, assignor to Charles J. Tagliabue Mfg. Co., Brooklyn, N. Y. Control valve. 1,920,458; Aug. 1.

Battegay, Constant, assignor to Societe Anonyme des Ateliers Brille Freres, Levallois-Perret, Seine, France. Time distribution system. 1,920,179; Aug. 1.

Bauer, Gustav F. C., Tonawanda, assignor to National Police Signal Company, Buffalo, N. Y. Police signal system. 1,920,236; Aug. 1.

Baumann, Adolf, Wettingen, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Refrigerating machine. 1,920,675; Aug. 1.

Beach, Clarence E., Boston, and F. E. Weld, Newton, assignors to The Gamewell Company, Newton Upper Falls, Mass. Signal recorder. 1,920,237; Aug. 1.

Beane, Edwin A., Oak Park, and E. F. Andrews, Chicago, Ill., assignors to Radio Corporation of America. High frequency amplifier. 1,920,342; Aug. 1.

Beardsley & Wolcott Mfg. Co., The. (See Lucia, Louis V., assignor.)

Bebie, Edwin W., Hawthorne, N. J., assignor to International Paper Company. Core splicing machine. 1,920,243; Aug. 1.

Beck, Christoph, Ludwigshafen-on-the-Rhine, and H. Diekmann, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of fatty acids. 1,920,344; Aug. 1.

Beck, Robert L., et al. (See Bert'Odatto, George, assignor.)

Becker, Joseph, O'Hara Township, Allegheny County, Pa., assignor to The Koppers Company of Delaware. Gas manufacture apparatus. 1,920,622; Aug. 1.

Becker, Joseph, O'Hara Township, Allegheny County, Pa., assignor to The Koppers Company of Delaware, Pittsburgh, Pa. Gas and liquid contact apparatus. 1,920,623; Aug. 1.

Bell Telephone Laboratories, Incorporated. (See Black, Harold S., assignor.)

Bell Telephone Laboratories, Incorporated. (See Pidgeon, H. A. and McNally, assignors.)

Bellis, Alfred P. S., assignor to John A. Roebling's Sons Company, Trenton, N. J. Electric cable. 1,920,180; Aug. 1.

Bemis Bro. Bag Company. (See Allen, Henry H., assignor.)

Bemis Bro. Bag Co. (See Morrill, P. E., and Brady, assignors.)

Bennett, Irving T., Brooklyn, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation. Casing or cover for radiators. 1,920,778; Aug. 1.

Bennett, Irving T., and F. C. Reynolds, Brooklyn, N. Y., assignors, by mesne assignments, to American Radiator & Standard Sanitary Corporation. Radiator. 1,920,779; Aug. 1.

Bentley, Marguerite E., Longfield, assignor to Tribo Limited, London England. Cleaning and polishing device, particularly applicable for manicure purposes. 1,920,788; Aug. 1.

Beplate, Viktor, Sydowsaue near Stettin, Germany, assignor to American Glanzstoff Corporation, New York, N. Y. Filament treating. 1,920,787; Aug. 1.

Bernard, Arthur F., Providence, R. I. Strap tightener. 1,920,789; Aug. 1.

Berthold, Hermann, and H. Friedrich, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Vat and sulphur dyestuff preparation. 1,920,166; Aug. 1.

Bert'Odatto, George, assignor of one-fifth to R. L. Beck and one-fifth to J. G. Hill, Cleveland, Ohio. Power transmission unit. 1,920,877; Aug. 1.

Bethlehem Steel Company. (See Cook, E., and Anderson, assignors.)

Beyer, Haim. (See Blake, O., and Beyer.)

Biernat, Carl, Glassford, Ill. Fog penetrating apparatus. 1,920,845; Aug. 1.

Bilde, Tord E. D., Stockholm, Sweden, assignor to Inventia Patent-Verwertungs-Gesellschaft, Schaffhausen, Switzerland. Floor polisher. 1,920,624; Aug. 1.

Bird, G. Curtis. (See Pepin, Joseph N., assignor.)

Bird, Harry R., Taft, Calif. Tire cover. 1,920,167; Aug. 1.

Birdsey, Charles R., Hinsdale, assignor to United States Gypsum Company, Chicago, Ill. Crate for sheet materials. 1,920,837; Aug. 1.

Bissell Carpet Sweeper Co. (See Pullen, Fred W., assignor.)

Black & Decker Manufacturing Company, The. (See Baker, James N., assignor.)

Black, Harold S., Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave translating system. 1,920,238; Aug. 1.

Black, John E., Rumson, N. J., assignor, by mesne assignments, to Fuller Lehigh Company. Steam boiler. 1,920,740; Aug. 1.

Blaho, Rudolph. (See Runser, F. J., and Blaho.)

Blake, Octave, and H. Beyer, New York, assignor to Cornell Electric Manufacturing Co. Inc., Long Island City, N. Y. Fixed condenser. 1,920,346; Aug. 1.

Blau, Harry, New York, N. Y. Razor blade sharpener. 1,920,347; Aug. 1.

Blount, Harry, and E. J. Larsen, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Reel. 1,920,181; Aug. 1.

Blunt, James G., Schenectady, N. Y. Railroad truck centering device. 1,920,848; Aug. 1.

Bockmon, Watson E., Los Angeles, Calif. Making a ceramic container. 1,920,459; Aug. 1.

Bockmühl, Max, and F. Lindner, Frankfort-on-the-Main, and O. Schaumann, Wiesbaden, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Separating and isolating the active substances of the posterior lobe of the hypophysis. 1,920,349; Aug. 1.

Bodendieck, Henry W., Taylorville, Ill. Operating member or stick for hot line equipment. 1,920,168; Aug. 1.

Boe, Helmer J., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Cable forming machine. 1,920,182; Aug. 1.

Boehm, John. (See Brown, H. E., and J. Boehm.)

Boeing Airplane Company. (See Dean, Ernest P., assignor.)

Bol, Cornelis, Eindhoven, Netherlands, assignor to Radio Corporation of America. Radiocabinet. 1,920,741; Aug. 1.

Bolinders, J. & C. G., Mekaniska Verstads Aktiebolag. (See Österberg, Karl E. R., assignor.)

Booth, Harold S., and G. G. Torrey, Cleveland Heights, Ohio. Dehydrating, without decomposition, hydrated salts. 1,920,289; Aug. 1.

Bori, Antonio B., and J. M. Estape, Habana, Cuba, assignors to said Estape. Preparing cellulose. 1,920,289; Aug. 1.

Bossing, Edward W., Brookfield, Ill. Microscopic projector. 1,920,188; Aug. 1.

Bottome, Turner D., Indianapolis, Ind. Electrical detection and separation of coins from substitutes. 1,920,625; Aug. 1.

Bourdon, Pierre M., Paris, assignor to Michelin et Cie, Clermont-Ferrand, France. Device for mounting wheels on hubs. 1,920,350; Aug. 1.

Bowman, Linn B. (See Phuke, F. J., and Bowman.)

Brackett, Alfred B., Swampscott, Mass., assignor to Frosted Foods Company, Inc., Dover, Del. Carton for frosen food products. 1,920,184; Aug. 1.

Bradbury, Clifford C., et al., trustee. (See Stokes, Charles L., assignor.)

Bradley, Harold L. Hyde Park, assignor to Howard Dustless-Duster Co., Boston, Mass. Mop connecter. 1,920,351; Aug. 1.

Brady, Charles V. (See Morrill, P. E., and Brady.)

Brady, Hugh S., assignor to Hasel-Atlas Glass Co., Wheeling, W. Va. Apparatus for vacuum sealing screw cap containers. 1,920,240; Aug. 1.

Bragg, Gilbert A., Pittsburgh, Pa., assignor to The Koppers Company of Delaware. Separation and purification of gaseous mixtures. 1,920,626; Aug. 1.

Brassert, Walter O., Kalamazoo, Mich. Coating concrete silo blocks. 1,920,627; Aug. 1.

Brewerton, Arthur E., Purley, England, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Gyroscopic compass. 1,920,241; Aug. 1.

Briggs, Alva S., assignor of one-fourth to R. C. Riggan, and one-fourth to R. F. Ridings, Adams, Tenn. Weed and grass cutter. 1,920,169; Aug. 1.

Britton, Edgar C., and W. R. Reed, assignors to The Dow Chemical Company, Midland, Mich. Manufacture of coumarin. 1,920,494; Aug. 1.

Brockman, Oscar, Louisville, Ky. Heel attachment device for shoes. 1,920,170; Aug. 1.

Brooks, Henry M., et al., as trustee. (See Ousdahl, Adolph, assignor.)

Brown, Hugh E., Cleveland Heights, and J. Boehm, University Heights, assignors to The W. S. Tyler Company, Cleveland, Ohio. Making woven wire screen. 1,920,495; Aug. 1.

Brown, John L. (See Schuck, R. W., and Brown.)

Brown & Williamson Tobacco Corp. (See Gary, George E., assignor.)

Browning, John B., Camden, N. J. Combined radio and phonographic recording and reproducing system. 1,920,628; Aug. 1.

Brownlee, Roy H., Pittsburgh, Pa. Thermal type carbon black. 1,920,352; Aug. 1.

Brunner, August G., Plauen, Germany. Bearing support. 1,920,546; Aug. 1.

Bruns, Robert F., Sarpy County, Nebr. Fluid fuel burners. 1,920,460; Aug. 1.

Bryant, Blanche B., administratrix. (See Bryant, William L.)

Bryant Chucking Grinder Company. (See Bryant, William L., assignor.)

Bryant, William L., deceased, B. B. Bryant, administratrix, assignor to Bryant Chucking Grinder Company, Springfield, Vt. Grinding machine or the like. 1,920,290; Aug. 1.

Budd, Edward G., Manufacturing Company. (See Trautvetter, George, assignor.)

Buerger, Arthur A. (See Dorst, J., and Welts, assignors.)

Burckhardt, August H., Russell, Minn. Revolving fish lure. 1,920,676; Aug. 1.

Burger, Clarence W., Cherrydale, Va. Educational appliance. 1,920,291; Aug. 1.

Burke, Richard W., Coplay, Pa. Kiln lining. 1,920,677; Aug. 1.

Burnett, Ullin A. (See Powell, Floyd J., assignor.)

Burroughs Adding Machine Company. (See Muller, Robert L., assignor.)

Butler, Albert M., and R. C. Lane, Danvers, Mass., assignors, by mesne assignments, to Electric Lamp Patents Company, Incorporated, New York, N. Y. Reclaiming electric lamps and bulbs. 1,920,528; Aug. 1.

Butler, Robert W. (See Kulicke, F. W., Butler, and Moore.)

Butts, Leonard C., Spokane, Wash. Time indicator. 1,920,838; Aug. 1.

Byerlein, Arthur A., Detroit, Mich., assignor to General Machinery Corporation, Hamilton, Ohio. Press. 1,920,547; Aug. 1.

Byrne Manufacturing Company, The. (See Runser, F. J., and Blaho, assignors.)

Byrnes, Townsend & Potter. (See Crouse, George B., assignor.)

Calcott, William S., Penns Grove, N. J., A. S. Carter, Wilmington, Del., and F. B. Downing, Carneys Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrogenation of mono-vinyl-acetylene. 1,920,242; Aug. 1.

Campbell, James W., Salem, Va. Merchandising carton. 1,920,353; Aug. 1.

Cando Corporation, The. (See Schuh, Charles F., assignor.)

Capehart Corporation, The. (See Darwin, Joseph A., assignor.)

Cardinal Machine Co. Inc. (See Cardinale, Salvatore, assignor.)

Cardinale, Salvatore, Copiague, assignor to Cardinal Machine Co. Inc., New York, N. Y. Machine for affixing frames to bags or purses. 1,920,780; Aug. 1.

Carlson, Samuel E., Alhambra, Calif. Battery terminal clamp. 1,920,548; Aug. 1.

Carpenter, Carroll E., Western Springs, assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Insulating or wall board product. 1,920,496; Aug. 1.

Carpenter, David E., assignor to Westinghouse Electric & Manufacturing Company, Springfield, Mass. Edgewound core. 1,920,354; Aug. 1.

Carr, Helen S., Guardian. (See Carr, William C., jr.)

Carr, William C., jr., Richmond, Va., Helen S. Carr, guardian, assignor to William C. Carr, sr. Glare screen. 1,920,185; Aug. 1.

Carr, William C., sr. (See Carr, William C., jr., assignor.)

Carter, Albert S. (See Calcott, W. S., Carter, and Downing.)

Carter, Herbert F., Roselle Park, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Heating system. 1,920,186; Aug. 1.

Caspe-, Louis, Richmond Hill, N. Y. Loading vehicle. 1,920,243; Aug. 1.

Cass, Max L., assignor of four-tenths to T. Gutmann, Pasadena, Calif. Mop. 1,920,855; Aug. 1.

Cassidy, Samuel M. (See Garcia, J. A., and Cassidy.)

Caterpillar Tractor Co. (See Thoen, Lowell H., assignor.)

Cattaneo, Charles, South Norwalk, Conn. Pointing device for stone carvers. 1,920,839; Aug. 1.

Caughey, Reed J., Schenectady, N. Y., assignor to General Electric Company. Power plant. 1,920,781; Aug. 1.

Celanese Corporation of America. (See Dickie, W. A. and Sowter, assignors.)

Celanese Corporation of America. (See Howorth, Harmon, assignor.)

Celanese Corporation of America. (See Payne, R. W., and Roberts, assignors.)

Chandler, Charles S. (See Jewell, Roy G., assignor.)

Chaplin, Merle P., Waterville, assignor, by mesne assignments, to Fidelity Trust Company, Portland, Maine. Pulp molding machines. 1,920,292; Aug. 1.

Chapman, Arthur B., and A. H. Vadnais, assignors to Double A Alarm Company, Inc., Oshkosh, Wis. Protective system. 1,920,742; Aug. 1.

Charter Drive, Inc. (See Charter, James A., assignor.)

Charter, James A., assignor to Charter Drive, Inc., Chicago, Ill. Starter for engines. 1,920,187; Aug. 1.

"Châtillon," Societá Anonima Italiana par la Seta Artificiale. (See Lautenberg, Anatolio, assignor.)

Chemical Construction Corporation. (See Hechenbleikner, I. and K. Titlestad, assignors.)

Chemische Fabrik von Heyden, A. G. (See Zellmann, Rudolf, assignor.)

Cheney, Charles W., Birmingham, England. Hasp fastening for suit and attaché cases and the like. 1,920,356; Aug. 1.

Chevassus, Gustave, San Francisco, Calif. Device for melting wax disks. 1,920,629; Aug. 1.

Chicago Pneumatic Tool Company. (See Nell, Gustave M., assignor.)

Chicago Telephone Supply Company. (See Schellenger, Newton C., assignor.)

Chouinard, Michel, Montreal, and J. P. Paradis, Longueuil, Quebec, Canada, said Paradis assignor to said Chouinard. Hose nozzle. 1,920,840; Aug. 1.

Christen, Marcel, Woodside, assignor to Cohn Hall Marx Co., New York, N. Y. Textile fabric or similar article. Des. 90,395; Aug. 1.

Christen, Marcel, Woodside, assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,396; Aug. 1.

Christian, Frank T., assignor to Eclipse Machine Company, Elmira, N. Y. Automatic starting system for internal combustion engines. 1,920,782; Aug. 1.

Cincinnati Advertising Products Company, The. (See Wing, George A., assignor.)

Clark, Charles E., West Hartford, Conn. Heat exchange device. 1,920,357; Aug. 1.

Clark, Horace N., Bridgewater Township, Somerset County, N. J., assignor to Refractory and Engineering Corporation, New York, N. Y. Insulating concrete. 1,920,358; Aug. 1.

Clark, J. L., Manufacturing Co. (See Mills, Wallace C., assignor.)

Clark, John M., assignor to Universal Button Fastening & Button Company, Detroit, Mich. Slide loop. 1,920,549; Aug. 1.

Clark, John M., Detroit, Mich., and I. D. Ford, Roseland, Ontario, Canada, assignors to Universal Button Fastening and Button Company, Detroit, Mich. Buttons and their manufacture. 1,920,497; Aug. 1.

Clark, John W., New York, N. Y. Paper wrapper for expansible materials. 1,920,841; Aug. 1.

Clark, Lee H., Ardmore, assignor to The Sharples Specialty Company, Philadelphia, Pa. Manufacture of malt extract. 1,920,461; Aug. 1.

Cleveland Wreath & Spray Company. (See Daum, Carrie O., assignor.)

Clipsham, Kenneth M. (See Jackson, M. B., and Clipsham.)

Clymer, Dewey. (See West, E. E., and Clymer.)

Cocks, Harry J., assignor to Metal Products Company, Des Moines, Iowa. Accelerator foot pedal. 1,920,550; Aug. 1.

Cogswell, Leander A., assignor to Lacene Manufacturing Company, Manchester, N. H. Grading and evening machine. 1,920,842; Aug. 1.

Cohen, Harry, assignor to The Perfection Steel Body Company, Galion, Ohio. Burial vault. Des. 90,397; Aug. 1.

Cohen, Harry, assignor to The Perfection Steel Body Company, Galion, Ohio. Burial vault. Des. 90,398; Aug. 1.

Cohen, Monte. (See French, B. V. K., and Cohen.)

Cohn Hall Marx Co. (See Christen, Marcel, assignors.)

Cold Metal Process Company, The. (See Steckel, Abram P., assignor.)

Coleman, John B., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transmitting systems. 1,920,296; Aug. 1.

Condit Electrical Manufacturing Corporation. (See Edsall, William S., assignor.)

Conn, Robert W., Edgewood, R. I., assignor to Westinghouse Lamp Company. Automatic electrode mounting machine. 1,920,630; Aug. 1.

Connelly, Donald S., Wooster, and T. J. Hahn, Canton, assignors to Wooster Products Inc., Wooster, Ohio. Making cast products. 1,920,244; Aug. 1.

Continental Can Company. (See Kronquest, Alfred L., assignor.)

Continental Scale Works. (See Weber, Mathias J., assignor.)

Cook, Earnshaw, Baltimore, and E. L. Anderson, Sparrows Point, Md., assignor to Bethlehem Steel Company. Optical pyrometer. 1,920,293; Aug. 1.

Coon, Arthur J., Providence, R. I. Sign standard. Des. 90,399; Aug. 1.

Cornell Electric Manufacturing Co. Inc. (See Blake, O., and Beyer, assignors.)

Corning Glass Works. (See De Silva, Joseph A., assignor.)

Corning Glass Works. (See Woods, William J., assignor.)

Costanzo, Sebastiano, et al. (See Ramondetta, Gaetano, assignor.)

Cott-A-Lap Company, The. (See Pesci, Thomas, assignor.)

Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)

Coughly, O. J., et al. (See Jacobi, Arthur W., assignor.)

Coumbopoulos, Stavros, Paris, France. Sound amplifying horn. 1,920,631; Aug. 1.

Counihan, Frank J., Indiana, Pa. Cable reel. 1,920,843; Aug 1.

Cowper-Coles, Sherard O., Sunbury-on-Thames, England. Protection of metallic surfaces from corrosion. 1,920,678; Aug. 1.

Cranford, James F., St. Petersburg, Fla. Nozzle. 1,920,245; Aug. 1.

Crew, Owen H., Tulsa, Okla. Box lid support. 1,920,679; Aug. 1.

Crimmel, Alvie C., Hartford City, Ind. Vessel and track construction for refrigerators. 1,920,359; Aug. 1.

Cross, Walter M., Kansas City, Mo., assignor to Gasoline Products Company, Inc., New York, N. Y. Cracking petroleum hydrocarbons. 1,920,929; Aug. 1.

Cross, Walter M., Kansas City, Mo., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del. Apparatus for treating hydrocarbons. 1,920,930; Aug. 1.

Crouse, George B., New York, N. Y., assignor, by mesne assignments, to Byrnes, Townsend & Potter, Washington, D. C. Electrical filter. 1,920,948; Aug. 1.

Crundall, Sydney F. W. (See Bailey, F. W., Crundall, and Spence.)

Cullman, Otto, Chicago, Ill. Mounting electrically actuated mechanisms for driving lathes and other machines. 1,920,498; Aug. 1.

Cummings, Oren O., Farmerville, La. Radio cabinet. Des. 90,400; Aug. 1.

Curry, Robert, Louisville, Ky. Oil changing indicator. 1,920,844; Aug. 1.

Cusson, Sylvain, assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,401; Aug. 1.

Daimler-Benz Aktiengesellschaft. (See Aichele, Gottlob, assignor.)

Daimler-Benz Aktiengesellschaft. (See Roller, Franz, assignor.)

Daneke, William, Linden, assignor to Joseph Dixon Crucible Company, Jersey City, N. J. Pencil and finishing same. 1,920,361; Aug. 1.

Daniels, Joseph, Essen-Ruhr, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa. Contrivance for carrying out gas reactions at high temperatures. 1,920,632; Aug. 1.

Dannenberg, Charles B., and H. Whittaker, Wilmington, Del. Machine for laying off surface contours to scale. 1,920,633; Aug. 1.

D'Annunzio, Harry C., Rochester, N. Y., assignor, by mesne assignments, to Fashion Park Manufacturing Corporation. Outer knickers. 1,920,634; Aug. 1.

Dantsizen, Christian, Schenectady, N. Y., assignor to General Electric Company. Refrigerating system. 1,920,845; Aug. 1.

Darling, Alan G., Schenectady, N. Y., assignor to General Electric Company. Electrical regulator. 1,920,783; Aug. 1.

Darwin, Joseph A., East Orange, N. J., assignor to The Capehart Corporation, Ft. Wayne, Ind. Automatic record changing phonograph. 1,920,360; Aug. 1.

Daudt, Herbert W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of alkyl halides. 1,920,246; Aug. 1.

Daudt, Herbert W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of alkyl halides. 1,920,846; Aug. 1.

Daughtry, William R., Birmingham, Ala. Sharpening device for safety razor blades. 1,920,847; Aug. 1.

Daum, Carrie Orr, Bath Township, Summit County, assignor to Cleveland Wreath and Spray Company, Inc., Barberton, Ohio. Wreath structure. 1,920,561; Aug. 1.

Davis, Albert L., Watertown, assignor to The Waterbury Brass Goods Corporation, Waterbury, Conn. Pencil ferrule. 1,920,680; Aug. 1.

Day, Roland B., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 1,920,247; Aug. 1.

Day, Roland B., assignor to Universal Oil Products Company, Chicago, Ill. Refining gasoline-containing distillates. 1,920,248; Aug. 1.

Dayton Roderwald Company, The. (See Roderwald, Rudolf, assignor.)

Dayton Rubber Manufacturing Company, The. (See Toulmin, Harry A., jr., assignor.)

Dazley, William, Fairfield, assignor to W. F. Smith and C. F. Schmels, Bridgeport, Conn. Shade roller. 1,920,937; Aug. 1.

Dean Brothers Co. (See Dean, Stuart, assignor.)

Dean, Ernest P., assignor to Boeing Airplane Company, Seattle, Wash. Hollow rivet setting tool. 1,920,362; Aug. 1.

Dean, Stuart, assignor to Dean Brothers Co., Indianapolis, Ind. Pump mechanism. 1,920,363; Aug. 1.

Dean, Walter A. (See Kempf, L. W., and Dean.)

Dean, Walter A., Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum base alloy containing copper, nickel, and silicon. 1,920,249; Aug. 1.

Dearborn, Frank W., assignor to Gold Car Heating & Lighting Company, Brooklyn, N. Y. Gasket-attaching means. 1,920,635; Aug. 1.

De Bruyn, Paul. (See Rheinländer, Paul, assignor.)

De Chamerlat, Jean, Trelissac, France. Condensing apparatus. 1,920,681; Aug. 1.

De Frees, Nicholas W., Hastings, Minn., assignor to H. D. Hudson Manufacturing Company, Chicago, Ill. Sprayer construction. 1,920,636; Aug. 1.

Degen, Nicklous, Mason City, Iowa. Surfacing machine. 1,920,364; Aug. 1.

Delaware Rayon Company et al. (See Barnes, Joseph H., assignor.)

Del Mar, Harry, New York, N. Y. Radiator. 1,920,365; Aug. 1.

De Silva, Joseph A., assignor to Corning Glass Works, Corning, N. Y. Manufacture of drawn glass. 1,920,366; Aug. 1.

De Loe, Oliver P. (See Simkins, H. D., and De Loe.)

Dental Plastics Company. (See Harrison, Laurence E., assignor.)

De Saugy, Humbert F., Paris, France. Method and device for cooling gases by contact with a liquid. 1,920,682; Aug. 1.

Deutsche Hydrierwerke A.-G. (See Bakonyi, Stefan, assignor.)

De Voe, Albert H., Westfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Hemstitch and embroidery seam. 1,920,784; Aug. 1.

Diaz, Antonio, Habana, Cuba. Combination padlock. 1,920,250; Aug. 1.

Dickhauser, Ewald. (See Jochum, K., Voss, Geier, and Dickhauser.)

Dickie, William A., and P. F. C. Sowter, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of artificial materials. 1,920,188; Aug. 1.

Diehl, J. F., et al. (See Prescott, Ford L., assignor.)

Diehl, William S., Shillington, assignor to Reading Hardware Corporation, Reading Pa. Lock mechanism. 1,920,848; Aug. 1.

Diekmann, Heinrich. (See Beck, C., and Diekmann.)

D'Ippolito, John B., assignor of one-half to A. L. Joseph, Vineland, N. J. Changeable sheet bulletin board. Des. 90,402; Aug. 1.

Dixon, Enslo S. (See Swearingen, G. V., and Dixon.)

Dixon, Joseph, Crucible Company. (See Daneke, William, assignor.)

Doherty, Henry L. (See Laird, Wilbur G., assignor.)

Doherty, Henry L., New York, N. Y. Development of oil fields. 1,920,637; Aug. 1.

Doherty Research Company. (See Lyons, Harry N., assignor.)

Dollerhide, Charles M., Davenport, Iowa. Detachable safety ladder step. 1,920,552; Aug. 1.

Dorcas, Merrill J., Cleveland, Ohio, assignor to National Carbon Company, Inc. Arc carbon. 1,920,921; Aug. 1.

Dorst, James, and H. F. Welts, assignors to Arthur A. Buerger, Mayville, Wis. Luggage latch. 1,920,189; Aug. 1.

Double A Alarm Company. (See Chapman, A. B., and Vadnais, assignors.)

Dougherty, Robert S. A., Bethlehem, Pa. Measuring mechanism. 1,920,294; Aug. 1.

Doughty, William E., assignor to James Vernor Company, Detroit, Mich. Carbonated beverage refrigerating apparatus. 1,920,462; Aug. 1.

Douty, Alfred, Elkins Park, assignor to American Chemical Paint Company, Ambler, Pa. Material for preparing metal for painting. 1,920,744; Aug. 1.

Dow Chemical Company, The. (See Britton, E. C., and Reed, assignors.)

Downing, Frederick B. (See Calcott, W. S., Carter, and Downing.)

Driggs, Frank H., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Preparing oxide free metal containing no voids. 1,920,638; Aug. 1.

Driggs, Lorenzo J., Altoona, Pa. Transformer supporting means. 1,920,849; Aug. 1.

Drug Products Co., The. (See Noonan, Harry, assignor.)

Dudley, Edward F., Oak Park, assignor to The Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet feeding mechanism. 1,920,295; Aug. 1.

Duner, John C., Chicago, Ill. Electric water closet. 1,920,367; Aug. 1.

Dunkin, Damon D., Guion, Ark. Apparatus for grading material. 1,920,190; Aug. 1.

Duplate Corporation. (See Zola, John C., assignor.)

Du Pont, E. I., de Nemours & Company. (See Calcott, W. S., Carter, and Downing, assignors.)

Du Pont, E. I., de Nemours & Company. (See Daudt, Herbert W., assignor.)

Du Pont, E. I., de Nemours & Company. (See Dykstra, Harry B., assignor.)

Du Pont, E. I., de Nemours & Company. (See Kharasch, Morris S., assignor.)

Du Pont, E. I., de Nemours & Company. (See Spaeth, Charles D., assignor.)

Du Pont Rayon Company. (See Haskins, Joseph F., assignor.)

Dykstra, Harry B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Crotyl cellulose and crotyl cellulose compositions. 1,920,297; Aug. 1.

Eastman Kodak Company. (See Van Derhoef, Henry E., assignor.)

Ebert, Edward C., South Brownsville, Pa. Shoulder rest for stringed musical instruments. 1,920,850; Aug. 1.

Eclipse Aviation Corporation. (See Mock, Frank C., assignor.)

Eclipse Machine Company. (See Christian, Frank T., assignor.)

Edison General Electric Appliance Company. (See Randolph, Charles P., assignor.)

Edsall, William S., Brookline, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Electrical generating and distribution system and apparatus therefor. 1,920,683; Aug. 1.

Edwards, Jay C., Chicago, Ill. Artificial stone. 1,920,463; Aug. 1.

Edwards Manufacturing Company, The. (See Myers, George D., assignor.)

Egan, John J., assignor to Electro Metallurgical Company, Brooklyn, N. Y. Producing nitrogen containing cases. 1,920,368; Aug. 1.

Egen, Heinrich. (See Lorens, R., and Egen.)

Ehrke, Louis F., Newark, N. J., assignor to Westinghouse Lamp Company. X-ray device. 1,920,684; Aug. 1.

Eichwald, Egon. (See Hammers, E. J., and Eichwald.)

Electric Boat Company. (See Spear, L. Y., Grieshaber and Nibbs, assignors.)

Electric Lamp Patents Company. (See Butler, A. M., and Lane, assignors.)

Electric Steel Foundry Company. (See Nourse, Walter H., assignor.)

Electrolux Servel Corporation. (See von Platen, B. C., and Munters, assignors.)

Electro Metallurgical Company. (See Egan, John J., assignor.)

Electron Corporation, The. (See Macksoud, Michael E., assignor.)

Ellis, Charles E., jr., Mahwah, N. J., assignor to Westinghouse Electric Elevator Company, Chicago, Ill. Elevator door operating system. 1,920,369; Aug. 1.

Elöd, Egon, Karlsruhe, and M. Enderli, assignors to the Firm of Rudolph Koepp & Co., Oestrich, Germany. Producing formates of alkaline earth metals. 1,920,851; Aug. 1.

Enderli, Max. (See Elöd, E., and Enderli.)

Estape, José M. (See Bori, A. B., and Estape.)

Enterprise Manufacturing Company, The. (See Khoenle, Herman F., assignor.)

Evans, Robert D. (See Griscom, S. B., and Evans.)

Evans, William L., Washington, Ind. Electric water heater. 1,920,685; Aug. 1.

Evers, Harry G. (See Wicks, J., and Evers.)

Fabbrica Italiana Magneti Marelli Società Anonima. (See Fossati, Giuseppe, assignor.)

Faldini, Mario, assignor to Società Italiano Pirelli, Milan, Italy. Manufacture of rubber substitutes and products derived therefrom. 1,920,298; Aug. 1.

Fanger, Herman J., Oakland, Calif., assignor of one-half to E. R. Week, jr. Dynamic loud speaker. 1,920,299; Aug. 1.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Valve seating device. 1,920,939; Aug. 1.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Holding slide valve to seat. 1,920,940; Aug. 1.

Fashion Park Manufacturing Corporation. (See D'Annunzio, Harry C., assignor.)

Fatherley, Robert E., Darien, Conn. Textile fabric or the like. Des. 90,403; Aug. 1.

Fatherley, Robert E., Darien, Conn. Textile fabric or the like. Des. 90,404; Aug. 1.

Faure, Simon, Firminy, France. Hauling and lifting apparatus. 1,920,686; Aug. 1.

Feinen, Nicholas, Buffalo, N. Y. Tire retreading machine. 1,920,852; Aug. 1.

Felten & Guilleaume Carlswerk Actien-Gesellschaft. (See Haanen, K. A., and Meuerer, assignors.)

Felten & Guilleaume Carlswerk Actien-Gesellschaft. (See Zapf, Georg, assignor.)

Ferguson, Ralph S., Baltimore, Md. Heat flask. 1,920,853; Aug. 1.

Fibreboard Products Inc. (See McLaughlin, William B., assignor.)

Fidelity Trust Company. (See Chaplin, Merle P., assignor.)

Fiber Fibre Company. (See Rosmait, John A., assignor.)

Finley, Dozier, Berkeley, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Pipe wrapping machine. 1,920,901; Aug. 1.

Finley, Dozier, Berkeley, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Roofing material. 1,920,931; Aug. 1.

Finley, Dozier, Berkeley, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Pipe wrapping machine. 1,920,932; Aug. 1.

Firth-Smith Company. (See Smith, William J., assignor.)

Fitz Gerald, John A. (See Maury, A. D., and Fitz Gerald.)

Fleaca, John, Cleveland, Ohio. Electrically driven cradle. 1,920,687; Aug. 1.

Flintkote Corporation, The. (See Hammers, E. J., and Eichwald, assignors.)

Flumerfelt, Walter E., Dallas Center, Iowa. Apparatus for continuous solvent extraction and method thereof. 1,920,499; Aug. 1.

Foehrenbach, Arthur F., Canton, Ohio. Combined voting machine cabinet and booth. Des. 90,405; Aug. 1.

Fogwell, Harrison H., and C. H. Judd, Los Angeles, Calif. Electric controlled timing device. 1,920,688; Aug. 1.

Föhl, Carl, Stockholm, Sweden, assignor to Ruthsac-cumulator Aktiebolag, Berlin, Germany. Power plant. 1,920,689; Aug. 1.

Ford, Ben K., Westfield, and M. A. Lamme, Maplewood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Method of and a system for impregnating articles. 1,920,191; Aug. 1.

Ford, Ira D. (See Clark, J. M., and Ford.)

Ford, Warren A., Schenectady, N. Y., assignor to General Electric Company. High frequency current measuring apparatus. 1,920,785; Aug. 1.

Forsythe, Charles E., and J. A. Forsythe, New York, N. Y. Extension boom for cranes. 1,920,370; Aug. 1.

Forsythe, James A. (See Forsythe, Charles E., and J. A.)

Fossati, Giuseppe, Monza, assignor to Fabbrica Italiana Magneti Marelli Società Anonima, Milan, Italy. Connecting means for screened cables. 1,920,553; Aug. 1.

Fowler, John T., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Rotary material reducing machine. 1,920,945; Aug. 1.

Fox, Merritt L., assignor to Houde Engineering Corporation, Buffalo, N. Y. Remote control device for shock absorbers. 1,920,192; Aug. 1.

Franke, John C., Berlin-Wilmersdorf, Germany. Floating pump unit. 1,920,371; Aug. 1.

Fraser, Hannah C., and M. A. Fraser, Bournemouth, England. Hair waver or curler. 1,920,690; Aug. 1.

Fraser, Mary A. (See Fraser, Harry C., and M. A.)

French, Benedict V. K., and M. Cohen, assignors to United American Bosch Corporation, Springfield, Mass. Coupling device. 1,920,748; Aug. 1.

French & Hecht Incorporated. (See Hecht, Joseph L., assignor.)

Freydberg Bros., Inc. (See Strauss, Nathan J., assignor.)

Friden, Carl M. F., Piedmont, assignor to Marchant Calculating Machine Company, Emeryville, Calif. Calculating machine. Re18,911; Aug. 1.

Fried Krupp Aktiengesellschaft. (See Lorenz, R., and Egen, assignors.)

Friedrich, Hermann. (See Berthold, H., and Friedrich.)

Frigidaire Corporation. (See Henney, C. F., and Kaufman, assignors.)

Frigidaire Corporation. (See Hull, Harry B., assignor.)

Frischkorn, Heinrich, Gelsenkirchen, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa. Apparatus for heating articles. 1,920,691; Aug. 1.

Frosted Foods Company. (See Brackett, Alfred B., assignor.)

Fuller, Chauncey P. (See Olsson, N. A., and Fuller.)

Fuller, Frederick L., Ilion, N. Y., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,920,464; Aug. 1.

Fuller Lehigh Company. (See Black, John E., assignor.)

Fulton, Alfred C., assignor to The Aetna Rubber Company, Ashtabula, Ohio. Papier-mâché article. 1,920,372; Aug. 1.

Gabriel Steel Company. (See Zabriskie, William F., assignor.)

Gamewell Company, The. (See Beach, C. E., and Weld, assignors.)

Garcia, John A., and S. M. Cassidy; said Garcia assignor to said Cassidy, Chicago, Ill. Conveyer apparatus for loading cars. 1,920,500; Aug. 1.

Gardiner, William T., et al., as trustee. (See Ousdahl, Adolph, assignor.)

Gary, George E., assignor to Brown & Williamson Tobacco Corp., Louisville, Ky. Display package. 1,920,193; Aug. 1.

Gasoline Products Company. (See Cross, Walter M., assignor.)

Gathmann, Emil, Baltimore, Md. Heat insulating means for use in producing metallic castings. 1,920,854; Aug. 1.

Geier, Hermann. (See Jochum, K., Voss, Geier, and Dickhauser.)

Geiselman, Ralph A. (See Ashbaugh, J. H., and Geiselman.)

General Aniline Works, Inc. (See Berthold, H., and Friedrich, assignors.)

General Aniline Works, Inc. (See Kränslein, G., and Vollmann, assignors.)

General Aniline Works, Inc. (See Krech, E., Scheurer, and Koch, assignors.)

General Aniline Works, Inc. (See Nawiasky, Paul, and A. Krause, assignors.)

General Aniline Works, Inc. (See Ott, Karl, and Schussler, assignors.)

General Aniline Works, Inc. (See Zitscher, A., Seidenfaden, and Jellinek, assignors.)

General Electric Company. (See Alexander, Peter P., assignor.)

General Electric Company. (See Bailey, William M., assignor.)

General Electric Company. (See Caughey, Reed J., assignor.)

General Electric Company. (See Dantsizen, Christian, assignor.)

General Electric Company. (See Darling, Alan G., assignor.)

General Electric Company. (See Ford, Warren A., assignor.)

General Electric Company. (See Grunholz, Hans, assignor.)

General Electric Company. (See Heisler, Charles L., assignor.)

General Electric Company. (See Huber, Herman J. H., assignor.)
General Electric Company. (See Hutt, Leonard P., assignor.)
General Electric Company. (See Kissing, F., and Maas, assignors.)
General Electric Company. (See Krämer, Christian, assignor.)
General Electric Company. (See Nagashev, Boris V., assignor.)
General Electric Company. (See Nickle, Clifford A., assignor.)
General Electric Company. (See Perry, Leo H., assignor.)
General Electric Company. (See Proctor, John A., assignor.)
General Electric Company. (See Rich, Theodore A., assignor.)
General Electric Company. (See Schwabacher, Gerhard P., assignor.)
General Electric Company. (See Shoults, David R., assignor.)
General Electric Company. (See Stevenson, Alexander R., jr., assignor.)
General Electric Company. (See Stone, Charles W., assignor.)
General Electric Company. (See Verrall, Victor E., assignor.)
General Machinery Corporation. (See Byerlein, Arthur A., assignor.)
General Steel Castings Corporation. (See Lentz, W. L., and Sheehan, assignor.)
Gerstner, Harry H., Dayton, O. Shoe-shine box. 1,920,171; Aug. 1.
Gerth, Felix, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Frequency multiplier. 1,920,194; Aug. 1.
Gesel, Albert J., and W. M. Murray, Buffalo, N. Y. Teeming nozzle. 1,920,300; Aug. 1.
Gesellschaft fur Oberbauforschung und Rangiertechnik m. b. H. (See Meyer, August, assignor.)
Gibson, John C., assignor to The Pioneer Rubber Company, Willard, Ohio. Coloring toy balloons. Re18,910; Aug. 1.
Gillen, George A., Bronx, assignor, by mesne assignments, to Houde Engineering Corporation, Buffalo, N. Y. Shock absorber. 1,920,251; Aug. 1.
Glass, Perley R., Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Presser foot mechanism. 1,920,252; Aug. 1.
Glass, Perley R., Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Seam finishing machine. 1,920,253; Aug. 1.
Gloekler, John E., Pittsburgh, Pa. Sliding door cabinet. 1,920,855; Aug. 1.
Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming machine. 1,920,501; Aug. 1.
Godel, Albert, assignor to Societe de Recherches & d'Exploitation Petrolliferes, Paris, France. Activation of carbonaceous substances. 1,920,172; Aug. 1.
Gold Car Heating & Lighting Company. (See Dearborn, Frank W., assignor.)
Goldschmidt, Jacob, Dusseldorf, Germany. Machine for making pads for sock bolders. 1,920,902; Aug. 1.
Goldstein-Wilkins Corporation. (See Christen, Marcel, assignor.)
Goldstein-Wilkins Corporation. (See Cusson, Sylvain, assignor.)
Goldstein-Wilkins Corporation. (See Grulich, Anton, assignor.)
Goldstein-Wilkins Corporation. (See Reiman, Paul, assignor.)
Goldstein-Wilkins Corporation. (See Rota, Alex, assignor.)
Goldstein-Wilkins Corporation. (See Rubinger, Louis, assignor.)
Goldstein-Wilkins Corporation. (See Speck, Walter, assignor.)
Goldstein-Wilkins Corporation. (See Van Benthuysen, Herbert L., assignor.)
González, Arturo, and José M. González, Habana, Cuba. Cooling device. 1,920,856; Aug. 1.
González, José M. (See González, Arturo, and J. M.)
Good, Herbert F., Philadelphia, assignor of three-twentieths to F. Maddenford, Frankford, Pa. Life saving device for submarines. 1,920,301; Aug. 1.
Goodman Manufacturing Company. (See Vodoz, Frederick W., assignor.)
Goodwin, William N., jr., assignor to Weston Electrical Instrument Corporation, Newark, N. J. Tube tester. 1,920,906; Aug. 1.
Gorden, Walter L., assignor to Johnson Brothers Engineering Corporation, Waukegan, Ill. Rotary valve. 1,920,924; Aug. 1.
Goss, Worth C., assignor to Humidity Control Company, Seattle, Wash. Hygrostatic control. 1,920,502; Aug. 1.
Gosselin, Henri Albert, Montereau, assignor to Societe Chimique de la Grande Paroisse Azote & Produits Chimiques, Paris, France. Synthesizing organic compounds containing oxygen. 1,920,378; Aug. 1.
Government and the People of the United States of America. (See Winston, J. R., Wright, and Wootten.)
Graff, George U., Washington, D. C. Pyrotechnic composition for producing yellow smoke. 1,920,254; Aug. 1.
Grams, Fred J., Mishawaka, Ind. Moccasin. 1,920,554; Aug. 1.
Grbovic, Drago, New York, N. Y. Neon tube sign. 1,920,555; Aug. 1.
Green, Amos V., Denver, Colo. Container of the hand opening and closing type and cover therefor. 1,920,786; Aug. 1.
Green, Charles W., Ilion, N. Y., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,920,374; Aug. 1.
Green, Charles W., Ilion, N. Y., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,920,375; Aug. 1.
Greene, Albert E., Medina, Wash. Electrothermic reduction process. 1,920,376; Aug. 1.
Greene, Albert E., Medina, Wash. Selective reduction. 1,920,377; Aug. 1.
Greene, Albert E., Medina, Wash. Electric furnace electrode holder. 1,920,378; Aug. 1.
Greene, Albert E., Medina, Wash. Producing and melting sponge iron. 1,920,379; Aug. 1.
Greene, Albert E., Seattle, Wash. Electric induction furnace. 1,920,380; Aug. 1.
Greider, Clarence E., Lakewood, Ohio, assignor to National Carbon Company, Inc. Electrode for therapeutic arc lamps. 1,920,255; Aug. 1.
Greve, Edgar E., Bellevue, assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa. Lubricating means for pumps. 1,920,381; Aug. 1.
Grier, Frank L. (See Moriya, Saburo M., assignor.)
Grieshaber, Hugo E. (See Spear, L. Y., Grieshaber, and Nibbs.)
Griffith, Edward S., Oneida County, N. Y. Priceometer. 1,920,173; Aug. 1.
Griscom-Russell Company, The. (See McCausland, John W., assignor.)
Griscom, Samuel B., and R. D. Evans, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Company. Neutral-impedance device. 1,920,382; Aug. 1.
Grotnes, Carl C., Park Ridge, Ill. Metal working machine. 1,920,302; Aug. 1.
Grotnes, Carl C., Park Ridge, Ill. Machine for making wheel rims. 1,920,303; Aug. 1.
Grulich, Anton, assignor to Goldstein-Wilkins Corporation. New York, N. Y. Textile fabric or similar article. Des. 90,406; Aug. 1.
Grünholz, Hans, Charlottenburg, Germany, assignor to General Electric Company. Electroresponsive device. 1,920,745; Aug. 1.
Gubelmann, Alfred, Villeurbanne, France. Extensible swift for the winding of hanks of silk, cotton, or other yarns of different diameters. 1,920,556; Aug. 1.
Guillow, Roscoe M., Wakefield, Mass. Airplane toy. 1,920,746; Aug. 1.
Gutmann, Theodore. (See Cass, Max L., assignor.)
Guttzeit, Chas. W. (See Keen, William H., assignor.)
Haanen, Karl A., Cologne-Mulheim, and H. Menrer, Cologne, assignors to Felton & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. High tension cable. 1,920,903; Aug. 1.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for assembling heel-lifts and rands. 1,920,256; Aug. 1.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shank piece and making shoes. 1,920,383; Aug. 1.
Hadley, Willis D., St. Louis, Mo. Structural glass for covering walls and ceilings. 1,920,503; Aug. 1.
Hahn, Theodore J. (See Connelly, D. S., and Hahn.)
Halbach, Howard L., Clarksburg, W. Va., assignor to Pittsburgh Plate Glass Company. Glass drawing tank. 1,920,692; Aug. 1.
Halland, Herman E., United States Navy. Practice bomb. 1,920,257; Aug. 1.
Halsey, Charles W., Evansville, Ind. Doorstop. 1,920,693; Aug. 1.
Halter, Adolph A., Cleveland, Ohio. Stove wick and its composition. 1,920,384; Aug. 1.
Hamilton, Victor N., assignor to W. D. Rogers and H. Kema, Los Angeles, Calif. Can perforating and contents pouring lid. 1,920,385; Aug. 1.
Hammer, Ludwig, Vienna, Austria. Rock-boring machine. 1,920,904; Aug. 1.
Hammers, Eduard J., and E. Eichwald, Amsterdam, Netherlands, assignors, by mesne assignments, to The Flintkote Corporation, Boston, Mass. Obtaining purified sulphonic acids. 1,920,787; Aug. 1.
Hancock, Manley M., Binghamton, N. Y. Automatic engine stopping means. 1,920,694; Aug. 1.
Hano, Edward, Holyoke, Mass. Carbon copy system. 1,920,640; Aug. 1.
Hansell, Clarence W., assignor to Radio Corporation of America, Port Jefferson, N. Y. Indicator. 1,920,304; Aug. 1.
Hantzsch, Ralph E., et al. (See Whittaker, James L., assignor.)
Haraldson, Olaf, Minot, N. Dak. Composition of matter for use in treatment of diseases of the skin. 1,920,639; Aug. 1.
Hardenbrook, Charles E., jr., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Perforating die. 1,920,258; Aug. 1.

Harding, Charles E., assignor to Whitinsville Spinning Ring Company, Whitinsville, Mass. Ring holder. 1,920,386; Aug. 1.
Harper, Elmer E., Kansas City, Mo. Lime slaking apparatus. 1,920,905; Aug. 1.
Harper, Florence, Port Washington, N. Y. Wave saving cap. 1,920,387; Aug. 1.
Harris, Herbert, assignor to A. O. Smith Corporation, Milwaukee, Wis. Refining ferrous metals. 1,920,465; Aug. 1.
Harris, James E., Central City, Nebr. Carburetor. 1,920,174; Aug. 1.
Harris-Seybold-Potter Company. (See Harrold, Charles W., assignor.)
Harrison, Abraham N., New York, N. Y. Textile fabric. Des. 90,407; Aug. 1.
Harrison, Abraham N., New York, N. Y. Textile fabric. Des. 90,408; Aug. 1.
Harrison, Benjamin F., assignor to The Standard Stoker Company, Incorporated, Glenns Ferry, Idaho. Locomotive. 1,920,805; Aug. 1.
Harrison, Laurence E., assignor, by mesne assignments, to Dental Plastics Company, Los Angeles, Calif. Dental impression material. 1,920,857; Aug. 1.
Harrold, Charles W., assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Sheet-feeder. 1,920,388; Aug. 1.
Harter, Hans, Wurzburg, Germany. Converting gases rich in methane into more valuable products. 1,920,858; Aug. 1.
Hartford-Empire Company. (See Hatch, Roswell F., assignor.)
Hartford-Empire Company. (See Lobb Frank H., assignor.)
Hartford-Empire Company. (See Peiler, Karl E., assignor.)
Hartshorn, H. A., et al., trustees. (See Wilson, Ernest M., assignor.)
Haskins, Howard B., Highland Park, and J. W. Lakin, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Hinge. 1,920,466; Aug. 1.
Haskins, Joseph F., Kenmore, assignor to Du Pont Rayon Company, New York, N. Y. Preparing cellulose esters. 1,920,306; Aug. 1.
Hass, Paul B., Chamberlain, S. Dak. Trap gun. 1,920,695; Aug. 1.
Hatch, Roswell F., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Gathering pool level regulator. 1,920,747; Aug. 1.
Hausrath, Herbert, Karlsruhe, assignor to the Firm Neufeldt & Kuhne G. m. b. H., Kiel, Germany. Device for transmitting measured values to a distant point. 1,920,788; Aug. 1.
Hawes, Richard K., et al., trustees. (See Ousdahl, Adolph, assignor.)
Hazel-Atlas Glass Company. (See Brady, Hugh S., assignor.)
Hazel-Atlas Glass Co. (See Williams, John J., assignor.)
Haven, Harry B. (See Lewis, A. J., Richardson, Spill, and Haven.)
Hawkins, Edgar M., and O. M. Hoch, assignors to M. D. Knowlton Company, Rochester, N. Y. Shearing mechanism. 1,920,389; Aug. 1.
Hechenbleikner, Ingenuin and N. Titlestad, assignors to Chemical Construction Corporation, Charlotte, N. C. Method and apparatus for the liberation or concentration of acids by heating under reduced pressure. 1,920,307; Aug. 1.
Hecht, Joseph L., Davenport, Iowa, assignor to French & Hecht Incorporated. Metal wheel structure. 1,920,859; Aug. 1.
Hedden, Victor R., New York, N. Y. Window cleaning device. 1,920,860; Aug. 1.
Heichert, Herman S., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Process and apparatus for separating glass sheets. 1,920,641; Aug. 1.
Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Film driving apparatus. 1,920,789; Aug. 1.
Helms, Harry W., assignor to Highway Trailer Company, Edgerton, Wis. Fifth wheel construction. 1,920,390; Aug. 1.
Hemler, Wilmer F., Washington, D. C. Protective system and radiant energy apparatus. 1,920,861; Aug. 1.
Hendrie, Leland W., Philadelphia, Pa. Gaff. 1,920,790. Aug. 1.
Hene, Emil, Berlin-Grunewald, Germany. Producing and treating sulphocyanate salts. 1,920,557; Aug. 1.
Henney, Charles F., and D. L. Kaufman, assignors to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,920,505; Aug. 1.
Henry, James N. (See Henry, John N., assignor.)
Henry, John N., Norwood, assignor to J. N. Henry, Providence, R. I. Curtain support. 1,920,195; Aug. 1.
Henry Manufacturing Co. (See Henry, Raymond, assignor.)
Henry, Raymond, Rock Island, Ill., assignor, by mesne assignments, to Henry Manufacturing Co., Davenport, Iowa. Oil-less spring shackle. 1,920,558; Aug. 1.
Hermann, Otto, assignor to Thermo Electric Company, St. Louis, Mo. Thermoelectric element and thermocouple. 1,920,559; Aug. 1.
Herrmann, Lorenz S., jr., Mount Lebanon Township, Allegheny County, Pa., assignor to The Koppers Company of Delaware. Coke oven apparatus. 1,920,949; Aug. 1.
Herwig, Ernest C. L., New Orleans, La. Water bicycle. 1,920,391; Aug. 1.
Héry, Edouard, Paris, France. Pulp beating engine. 1,920,392; Aug. 1.
Heuer, Lawrence H., assignor to L. A. Young Spring and Wire Corporation, Detroit, Mich. Spring assembling machine. 1,920,862; Aug. 1.
Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Valve loading device. 1,920,938; Aug. 1.
Highway Trailer Company. (See Helms, Harry W., assignor.)
Hile, Leslie M., Benton Harbor, Mich. Wirebound container. 1,920,560; Aug. 1.
Hiles, George H., deceased, Long Beach, Calif., L. S. Hiles, executrix. Golf bag. 1,920,308; Aug. 1.
Hiles, Leta S., executrix. (See Hiles, George H.)
Hill, James G., et al. (See Bert'Odatto, George, assignor.)
Hillan, Aphel O., Wentworth, S. Dak. Saw attachment for tractors. 1,920,696; Aug. 1.
Hinsch, Johannes. (See Siemen, O., and Hinsch.)
Hipkins, Otho F., Port Deposit, Md. Traction device. 1,920,506; Aug. 1.
Hisamatsu, Hidesaburo. (See Umegaki, S., and Hisamatsu.)
Hoch, Otto M. (See Hawkins, E. M., and Hoch.)
Hodge, Arthur J. (See Murphy, D. A., and Hodge.)
Hoff, Chester A., assignor to The Akron Lamp Company, Akron, Ohio. Liquid fuel vapor burner. 1,920,935; Aug. 1.
Hoffmann, William J., assignor to Lilie-Hoffmann Cooling Towers, Inc., St. Louis, Mo. Cooling tower construction. 1,920,642; Aug. 1.
Hogan, Philip, Newton, Mass. Soldering together cylindrical surfaces. 1,920,791; Aug. 1.
Holiös, Zsigmond, Vienna, Austria. Driving mechanism for the wheels of divided swinging axles of motor vehicles or the like. 1,920,175; Aug. 1.
Holloway, Halbert H., Los Angeles, Calif. Airplane construction. 1,920,507; Aug. 1.
Hopkins, Matthews S., jr., Washington, D. C. Amplification of radiant energy. 1,920,863; Aug. 1.
Hoppe, Otto F., Frankfort-on-the-Main, Germany, assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,920,643; Aug. 1.
Hornstein, Heinrich, Berlin-Halensee, assignor to H. Koch, Berlin, Germany. Phosphoric acid salt of B-bromethyl-trimethyl-ammonium-theobromine-1-acetate and producing the same. 1,920,697; Aug. 1.
Hoseason, Donald B., assignor to Associated Electrical Industries Limited, Bowdon, England. Electric motor. 1,920,309; Aug. 1.
Hotchkin, James B., Montclair, N. J., assignor to The Palnut Company. Nut lock. 1,920,792; Aug. 1.
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container. 1,920,504; Aug. 1.
Houde Engineering Corporation. (See Gillen, George A., assignor.)
Houde Engineering Corporation. (See Merritt, Fox L., assignor.)
Houde Engineering Corporation. (See Peo, Ralph F., assignor.)
Houde Engineering Corporation. (See Shults, Albert B., assignor.)
Howard Dustless-Duster Co. (See Bradley, Harold L., assignor.)
Howorth, Harmon, Cumberland, Md., assignor to Celanese Corporation of America. Bobbin stop motion. 1,920,196; Aug. 1.
Hubbell, Harvey, Incorporated. (See Wells, Burling D., assignor.)
Huber, Herman J. H., Brookline, Pa., assignor to General Electric Company. Electrical switch gear. 1,920,748; Aug. 1.
Hudd, Alfred E., Evanston, assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Train control system. 1,920,197; Aug. 1.
Hudson, H. D., Manufacturing Company. (See De Frees, Nicholas W., assignor.)
Huguenin, Albert, Paris, France. Adjustable gate for both ways of flow in subetantially horizontal sluices. 1,920,698; Aug. 1.
Hull, Harry B., assignor to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,920,508; Aug. 1.
Humidity Control Company. (See Goss, Worth C., assignor.)
Hund, Walter J. (See Rosenstein, L., and Hund.)
Hurley, Roy T., Dobbs Ferry, N. Y. Metal die. 1,920,699; Aug. 1.
Hutt, Leonard P., Schenectady, N. Y., assignor to General Electric Company. Starting means for a split phase motor. 1,920,749; Aug. 1.
Hyman, Henry. (See Muldoon, B. F., and Johnson, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Beck, C., and Diekmann, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Jochum, K., Voss, Geier and Dickhauser, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Klatte, F., and Müller, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Von Knilling, Walter, assignor.)
Imperial Chemical Industries Limited. (See Wyler, Max, assignor.)
International Combustion Engineering Corporation. (See Wood, Wilfred R., assignor.)
International Communications Laboratories, Inc. (See Watkins, James O., assignor.)
International Communications Laboratories, Inc. (See Zwietusch, Eduard O., assignor.)
International Motor Company. (See Masury, Alfred F., assignor.)
International Nickel Company, The. (See Pilling, N. B., and Kihlgren, assignors.)
International Paper Company. (See Bebie, Edwin W., assignor.)
Inventia Patent-Verwertungs-Gesellschaft. (See Bilde, Tord E. D., assignor.)
Irving Air Chute Company. (See Lafayette, Harvey E., assignor.)
J. & M. Machine Company, The. (See Mitchell, Courtney N., assignor.)
Jackson, Albert M., United States Army, Brooklyn, N. Y. Method for determining and measuring distances. 1,920,259; Aug. 1.
Jackson, Maunsell B., and K. M. Clipsham, Toronto, assignor to Leaside Engineering Co. Limited, Leaside, Ontario, Canada. Engine starter. 1,920,793; Aug. 1.
Jackson, Maunsell B., and K. M. Clipsham, Toronto, assignors to Leaside Engineering Co., Limited, Leaside, Ontario, Canada. Engine starter. 1,920,794; Aug. 1.
Jacobi, Arthur W., assignor of two-thirds to O. J. Coughly and R. E. Ponder, St. Louis, Mo. Photographic printing machine. 1,920,561; Aug. 1.
Jacobsen, Anton, Brooklyn, N. Y. Frame for cigarette packages. 1,920,864; Aug. 1.
Jacobus, David S., Montclair, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Superheater. 1,920,198; Aug. 1.
Jaeger, Alphons O., Mount Lebanon, assignor to The Selden Company, Pittsburgh, Pa. Production of hydrocyanic acid. 1,920,795; Aug. 1.
Jaeger, Alphons O., Mount Lebanon, assignor to The Selden Company, Pittsburgh, Pa. Purification of organic compounds. 1,920,796; Aug. 1.
Jaffe, Harry, assignor to Johnston Tool and Die Co., Chicago, Ill. Radiator construction. 1,920,562; Aug. 1.
Jähne, Ernst H., Dresden, assignor to "Universelle" Cigarettenmaschinen-Fabrik, J. C. Muller & Company, Dresden, Germany. Apparatus for transferring boxes from a pile. 1,920,568; Aug. 1.
Jalte, Roy W., Lakewood, Ohio. Paper bag. 1,920,700; Aug. 1.
Jallinek, Karl. (See Zitscher, A., Seidenfaden and Jellinek.)
Janson, Carl C. (See Wallgren, A. G. F., and Janson.)
Jarrett, Charles D., Chicago, Ill. Palette. 1,920,467; Aug. 1.
Jarvis, Charles H., assignor to United Steel & Wire Company, Battle Creek, Mich. Atomizer or sprayer. 1,920,865; Aug. 1.
Jarvis, W. B., Company. (See Andrie, Michael B., assignor.)
Jay, Webb, Miami Beach, Fla. Container and holder unit. 1,920,393; Aug. 1.
Jeanneret, Georges, St. Imier, Switzerland. Watch-shaped golf-scorer. 1,920,894; Aug. 1.
Jeffrey Manufacturing Company, The. (See Armstrong, Walter J., assignor.)
Jeffrey Manufacturing Company, The. (See Fowler, John T., assignor.)
Jellinek, Ernst, Vienna, Austria. Producing yeast without alcohol. 1,920,395; Aug. 1.
Jenkins, George M., Hemingford, Nebr. Potato sorter, 1,920,701; Aug. 1.
Jesnig, Charles J., Philadelphia, Pa. Closure for collapsible tubes and the like. 1,920,199; Aug. 1.
Jewell, Roy G., assignor of one-half to C. S. Chandler, Oakland, Calif. Signaling device. 1,920,310; Aug. 1.
Jochum, Kurt, and A. Voss, Frankfort-on-the-Main, H. Geier, Mainz-Kastel, and E. Dickhäuser, Gersthofen, near Augsburg, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Agent for sizing textile fibers and a process of sizing textile fibers. 1,920,564; Aug. 1.
Johne-Werke Grofische Maschinen-Aktiengesellschaft. (See Stegmann, Karl, assignor.)
Johnson Brothers Engineering Corporation. (See Gorden, Walter L., assignor.)
Johnson Brothers Engineering Corporation. (See Johnson, L. J., and H. L., assignors.)
Johnson, Edward, Montclair, N. J., assignor to Meinecke & Company, New York, N. Y. Medicine glass cover and marker. 1,920,396; Aug. 1.
Johnson, Frederick W., Brighton, England. Revolving door. 1,920,397; Aug. 1.
Johnson, Harry L. (See Johnson, L. J., and H. L.)
Johnson, James H., Columbus, Ohio. Hat finishing machine. 1,920,644; Aug. 1.
Johnson, John E. (See Muldoon, B. F., and Johnson.)
Johnson, Louis J., South Bend, Ind., and H. L. Johnson, Waukegan, Ill., assignors to Johnson Brothers Engineering Corporation, South Bend, Ind. Outboard motor assembly. 1,920,923; Aug. 1.
Johnston Tool & Die Co. (See Jaffe, Harry, assignor.)
Jones, Arthur E., Elkhart, Ind., and H. H. Lewis, Atchison, Kans., assignors to Henry Weis Manufacturing Company, Inc. Hinge. 1,920,509; Aug. 1.
Jones, Edward S., Columbus, Ind. Shaving brush. 1,920,398; Aug. 1.
Jones, Harry C., New York, N. Y. Photo-composing machine. 1,920,399; Aug. 1.
Jones, Harry C., New York, N. Y. Making registered prints. 1,920,400; Aug. 1.
Jones, James B., assignor to Art Metal Construction Company, Jamestown, N. Y. Cabinet and analogous device. 1,920,797; Aug. 1.
Jones, Leo D., assignor to The Sharples Specialty Company, Philadelphia, Pa. Separation of immiscible liquids. 1,920,468; Aug. 1.
Jones, Leo D., assignor to The Sharples Specialty Company, Philadelphia, Pa. Wool scouring. 1,920,469; Aug. 1.
Jones, Leo D., assignor to The Sharples Speciality Company, Philadelphia, Pa. Separation of mixtures of water with oil. 1,920,565; Aug. 1.
Jones, Paul A., Cincinnati, Ohio. Concrete form construction apparatus. 1,920,645; Aug. 1.
Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Mechanism for supplying fastenings. 1,920,260; Aug. 1.
Joseph, Arthur L. (See D'Ippolito, John B., assignor.)
Juchheim, Ernst. (See Juchheim, W. and E.)
Juchheim, Wilhelm and E., Ilmenau, Germany. Electrically operated valve. 1,920,925; Aug. 1.
Judd, Charles H. (See Fogwell, H. H., and Judd.)
Julian, Antone W., et al. (See Sager, Lee B., assignor.)
Juvenile Shoe Corporation of America. (See Beith, Chester F., assignor.)
Kaegebein, Erich L., Hammond, Ind. Force feed lubricator. 1,920,566. Aug. 1.
Kahn, Edgar E., Mount Vernon, N. Y. Eyelash curler. 1,920,401; Aug. 1.
Kalamazoo Sled Company. (See Kidder, William E., assignor.)
Kaltenbach, Robert W., Cleveland Heights, Ohio. Car dumper. 1,920,402; Aug. 1.
Karger, David, Milwaukee, Wis. Knitted headwear. 1,920,200; Aug. 1.
Kassel, Charles. (See Regenhardt, T. R., and Kassel.)
Kaufman, Daniel L. (See Henney, C. F., and Kaufman.)
Kavanagh, James F., Calumet City, Ill., assignor to The Superheater Company, New York, N. Y. Baffle for straight tube boilers. 1,920,798; Aug. 1.
Kearney, Patrick J., Toronto, Ontario, Canada. Manually operated press. 1,920,750; Aug. 1.
Keck, Daniel H., Appleton, assignor to Paper Patents Company, Nennah, Wis. Heating system. 1,920,567; Aug. 1.
Keen, William H., Albany, assignor to Chas. W. Guttsell, New York, N. Y. Corrosion resisting steel. 1,920,934; Aug. 1.
Kellog Company. (See Wilder, Harold K., assignor.)
Kema, Harry, et al. (See Hamilton, Victor N., assignor.)
Kempf, Louis W. (See Archer, R. S., and Kempf.)
Kempf, Louis W., and W. A. Dean, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. 1,920,282; Aug. 1.
Kessler, Samuel M., Brooklyn, N. Y. Shoe binding. 1,920,751; Aug. 1.
Kharasch, Morris S., College Park, Md., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Germicide, fungicide, etc., and using the same. 1,920,311; Aug. 1.
Khoenle, Herman F., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Artificial fish bait. 1,920,935; Aug. 1.
Kidder, William E., assignor to Kalamazoo Sled Company, Kalamazoo, Mich. Sled. 1,920,866; Aug. 1.
Kihlgren, Theodore E. (See Pilling, N. B., and Kihlgren.)
Kingsbury, George P. (See Ackerman, W., and Kingsbury.)
Kirk, Noel R., Tientsin, China. Dispensing apparatus. 1,920,867; Aug. 1.
Kirk, Noel R., Tientsin, China. Latch operating means. 1,920,868; Aug. 1.
Kissling, Friedrich, Charlottenburg, and A. Mass, Berlin-Tegel, Germany, assignors to General Electric Company. Fluid pressure regulator. 1,920,752; Aug. 1.
Klatte, Fritz, Rheinfelden-in-Baden, and H. Müller, Frankfort-on-the-Main Schwanheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing polymerization products of vinyl halides. 1,920,403; Aug. 1.
Kling, Samuel C., York, Pa. Cigar box hinge. 1,920,568; Aug. 1.
Klinka, Frank J., Milwaukee, Wis. Collapsible crate. 1,920,312; Aug. 1.
Klinker, Wm. F., et al., trustees. (See Wilson, Ernest M., assignor.)
Knefel, Clement. (See Knefel, Stanley F., R., C., and E.)
Knefel, Emmanuel. (See Knefel, Stanley F., R., C., and E.)
Knefel, Raymond F. (See Knefel, Stanley F., R., C., and E.)

Knefel, Stanley F., R., C., and E., St. Louis, Mo. Boiler return and vacuum trap. 1,920,510; Aug. 1.
Knowles, Edwin B., and J. J. Parnell; said Parnell assignor to B. R. W. Knowles, Albany, Ga. Nut shredding machine. 1,920,404; Aug. 1.
Knowlton, M. D., Company. (See Hawkins, E. M., and Hoch, assignors.)
Koch, Adolph. (See Krech, R., Scheurer, and Koch.)
Koch, Hermann. (See Hornstein, Heinrich, assignor.)
Koehring Company. (See Osman, Ralph T., assignor.)
Koepp, Rudolph & Co. (See Blöd, E., and Enderli, assignors.)
Kolko, Aron, Colombes, France. Alternating piston rotary engine. 1,920,201; Aug. 1.
Koppers Company of Delaware, The. (See Becker, Joseph, assignor.)
Koppers Company of Delaware, The. (See Bragg, Gilbert A., assignor.)
Koppers Company of Delaware, The. (See Daniels, Joseph, assignor.)
Koppers Company of Delaware, The. (See Frischkorn, Heinrich, assignor.)
Koppers Company of Delaware, The. (See Herrmann, Lorenz S., jr., assignor.)
Koppers Company of Delaware, The. (See Olsson, N. A., and Fuller, assignors.)
Koppers Company of Delaware, The. (See Pfluke, F. J., and Bowman, assignors.)
Koppers Company of Delaware, The. (See Page, Alwin, jr., assignor.)
Koppers Company of Delaware, The. (See Ramsburg, Charles J., assignor.)
Koppers Company of Delaware, The. (See Sperr, Frederick W., jr., assignor.)
Koppers Company of Delaware, The. (See Sperr, F. W., jr., and Shaw, assignors.)
Kornmann, Joseph, Cincinnati, Ohio. Making fine line printing plates. 1,920,405; Aug. 1.
Kürös, Ladislaus, Berlin-Tempelhof, Germany, assignor to N. V. Stabilovolt, 's-Gravenhage, Holland. Device for keeping constant the terminal voltage of sources of current. 1,920,569; Aug. 1.
Krämer, Christian, Berlin-Pankow, Germany, assignor to General Electric Company. Vapor electric discharge device. 1,920,753; Aug. 1.
Krünlein, Georg, and H. Vellmann, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Preparing derivatives of naphthalene-1.4.5.8-tetracarboxylic acid. 1,920,406; Aug. 1.
Krause, Arthur. (See Nawiasky, Paul, and Krause.)
Krech, Rudolph, Mannheim, W. Scheurer, Ludwigshafen-on-the-Rhine, and A. Koch, Hochst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Yellow azo dyestuff. 1,920,407; Aug. 1.
Kroger, Fred H., Ridgewood, N. J., assignor to Radio Corporation of America. Protective relay for tube transmitters. 1,920,646; Aug. 1.
Kronquest, Alfred L., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Machine for applying friction covers to containers. 1,920,869; Aug. 1.
Kubaugh, Benjamin F., assignor to Henry Vort Machine Co., Louisville, Ky. Distributive refrigerating evaporator. 1,920,570; Aug. 1.
Kuchar, Joseph, assignor to Athey Truss Wheel Co., Chicago, Ill. Combined chassis frame and support. 1,920,571; Aug. 1.
Kulicke, Frederick W., and R. W. Butler, Philadelphia, and C. W. Moore, Roselyn, assignors to Mitchell Specialty Company, Philadelphia, Pa. Safety gas cock. 1,920,511; Aug. 1.
Kurth, Matthew G., Madison, Wis. Piston, packing, and the like. 1,920,470; Aug. 1.
Lacene Manufacturing Company. (See Cogswell, Leander A., assignor.)
Lacke, William A., assignor, by mesne assignments, to Pullman Car & Manufacturing Corporation, Chicago, Ill. Furnace grate stoker control. 1,920,572; Aug. 1.
Ladigo, Joseph, Struthers, O. Curtain stretcher. 1,920,573; Aug. 1.
Lafayette, Harvey E., Waukegan, Ill., assignor to Irving Air Chute Company, Inc., Buffalo, N. Y. Coupling device. 1,920,408; Aug. 1.
Laird, Wilbur G., assignor to H. L. Doherty, New York, N. Y. Recovering gasoline and other hydrocarbon liquids from natural gas. 1,920,941; Aug. 1.
Lake, Harry E., Brookline, Mass. Siphon breaker for oil burning systems. 1,920,647; Aug. 1.
Lakin, John W. (See Hasking, H. B., and Lakin.)
Lamme, Maurice A. (See Ford, B. K., and Lamme.)
Lammers, Mark G. (See Lindemon, W. H., and Lammers.)
La Mont, Corporation. (See La Mont, Walter D., assignor.)
Lamont, Dallas R., et al. (See Whittaker, James L., assignor.)
Lamont, James H., assignor of one-half to J. Waugh, Edinburgh, Scotland. Pipe coupling. 1,920,512; Aug. 1.
La Mont, Walter D., Larchmont, assignor to La Mont Corporation, New York, N. Y. Steam generator for automotive vehicles. 1,920,907; Aug. 1.
Lancaster, Claude, Spartanburg, S. C. Slasher hood. 1,920,870; Aug. 1.
Lande & Miskend, Inc. (See Miskend, Herbert L., assignor.)
Landis & Gyr, A-G. (See Wenk, Juan, assignor.)
Lane, Charles K., Rockland, Mass. Athletic supporter. 1,920,648; Aug. 1.
Lane, Ralph C. (See Butler, A. M., and Lane.)
Langbein, Harold W., Los Angeles, assignor of one-half to F. E. Macabee and E. L. Macabee, Hayward, and one-half to H. C. Schroeder, Oakland, Calif. Apparatus for measuring braking component. 1,920,263; Aug. 1.
Lange, Alfred E., Elizabeth, and F. B. Mason, New Providence, N. J., assignors to Swan-Finch Oil Corporation, New York, N. Y. Lubricating composition. 1,920,202; Aug. 1.
Larsen, Einer W., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for handling material. 1,920,203; Aug. 1.
Larsen, Elmer J. (See Blount, H., and Larsen.)
Larsson, Thure, assignor to Norton Company, Worcester, Mass. Abrasive wheel mount. 1,920,204; Aug. 1.
Latham Machinery Company. (See Metcalf, Irving R., assignor.)
Lautenberg, Amatolio, assignor to "Châtillon," Società Anonima Italiana per la Seta Artificiale, Milan, Italy. Manufacture of cellulose ethers, in particular benzylcellulose. 1,920,702; Aug. 1.
Lavender, Robert A., U. S. Navy. Storage battery ventilating plug. 1,920,261; Aug. 1.
Leaside Engineering Co. Limited. (See Jackson, M. B., and Clipsham, assignors.)
Lederer, Ernest A., East Orange, N. J., assignor to Westinghouse Lamp Company. High amperage rectifier. 1,920,649; Aug. 1.
Lentz, William L., Tuckahoe, N. Y., and W. M. Sheehan, St. Louis, Mo.; said Sheehan assignor to General Steel Castings Corporation, Granite City, Ill. Locomotive tender construction. 1,920,754; Aug. 1.
Lentz, William L., Tuckahoe, N. Y., and W. M. Sheehan, St. Louis, Mo.; said Sheehan assignor to General Steel Castings Corporation, Granite City, Ill. Tender structure. 1,920,755; Aug. 1.
Levine, Abraham, Elizabeth, N. J. Bag lock. Des. 90,409; Aug. 1.
Levy, Abraham, Brooklyn, N. Y. Cone machine. 1,920,650; Aug. 1.
Lewis, Arthur J., and J. W. Richardson, Stratford, Conn., and C. J. Spill, Garden City, assignors to A. Schrader's Son, Inc., Brooklyn, N. Y. Valve pin washer and ferrule maker and assembler. 1,920,264; Aug. 1.
Lewis, Arthur J., and J. W. Richardson, Stratford, Conn., and C. J. Spill, Garden City, assignors to A. Schrader's Son, Inc., Brooklyn, N. Y. Spring and spring cup maker and assembler. 1,920,265; Aug. 1.
Lewis, Arthur J., and J. W. Richardson, Stratford, Conn., C. J. Spill, Garden City, N. Y., and H. B. Haven, Milford, Conn., assignors to A. Schrader's Son, Inc., Brooklyn, N. Y. Assembling machine. 1,920,266; Aug. 1.
Lewis, Harvey H. (See Jones, A. E., and Lewis.)
Liebknecht, Otto, Neubabelsberg, Germany, assignor to The Permutit Company, New York, N. Y. Softening water. 1,920,756; Aug. 1.
Lillie-Hoffmann Cooling Towers, Inc. (See Hoffmann, William J., assignor.)
Lilienfeld, Julius E., Winchester, assignor to The Amrad Corporation, Medford Hillside, Mass. Seal for electrolytic condensers. 1,920,799; Aug. 1.
Lindemon, William H., and M. G. Lammers, assignors to W. A. Sheaffer Pen Company, Fort Madison, Iowa. Swaged tip for mechanical pencils. 1,920,409; Aug. 1.
Lindner, Fritz. (See Bockmühl, M., Lindner, and Schaumann.)
List, Raymond F., and W. A. Smith, assignors to National Sewing Machine Company, Belvidere, Ill. Sewing machine. 1,920,471; Aug. 1.
List, Raymond F., and W. A. Smith, assignors to National Sewing Machine Company, Belvidere, Ill. Sewing machine. 1,920,472; Aug. 1.
Llewellyn, Samuel G., Evanston, Ill., assignor to Pettibone Mulliken Company. Dipper front. 1,920,703; Aug. 1.
Lobb, Frank H., Ridley Park, Pa., assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Machine for making articles from molten material. 1,920,908; Aug. 1.
Long, Spencer W. (See Young, F. J., Long, and Morgan.)
Lopizzo, Giovanno, et al. (See Ramondetta, Gaetano, assignor.)
Lorber, Charles, Louisville, Ky. Tracing chart. 1,920,704; Aug. 1.
Lorenz, C., Aktiengesellschaft. (See Gerth, Felix, assignor.)
Lorenz, C., Aktiengesellschaft. (See Schmidt, Karl, assignor.)
Lorenz, Rudolf, and H. Egen, assignors to Fried. Krupp Aktiengesellschaft, Essen, Germany. Railway car coupler. 1,920,410; Aug. 1.
Lovell, Stanley P., Newton, assignor to Arden Box Toe Company, Watertown, Mass. Apparatus for conditioning shoe stiffener parts and the like. 1,920,411; Aug. 1.
Lowy, Arthur, Newark, N. J., assignor to New York Engineering Company, New York, N. Y. Cable reel. 1,920,205; Aug. 1.
Lucia, Louis V., Hartford, Conn., assignor, by mesne assignments, to The Beardsley & Wolcott Mfg. Co. Heating device. 1,920,871; Aug. 1.
Lucke, William E., Wilmette, Ill. Bathtub hanger. 1,920,518; Aug. 1.

Lundstrom, Frank O. (See Whittaker, C. W., and Lundstrom.)
Lussier, Henry, Salem, Mass. Harness connection for looms. 1,920,412; Aug. 1.
Luzzi, August F., Wichita Falls, Tex. Exercising machine. 1,920,574; Aug. 1.
Lyen, Ezekiel W., Yakima, Wash. Recording speed indicator. 1,920,514; Aug. 1.
Lyon, George A., Allenhurst, N. J. Wheel rim ornamental bead. 1,920,575; Aug. 1.
Lyons, Henry N., South Orange, N. J., assignor to Doherty Research Company, New York, N. Y. Dewaxing and refining oils. 1,920,922; Aug. 1.
Maas, Arnold. (See Kissing, Friedrich, and Maas.)
Macabee, Edward L., et al. (See Langbein, Harold W., assignor.)
MacCubbin, Alexander A. (See Zavertnik, J., and MacCubbin.)
MacFayden, Loudon E., Easton, Pa., assignor to Taylor Wharton Iron & Steel Company, High Bridge, N. J. Excavating apparatus. 1,920,873; Aug. 1.
Mackenzie, Donald G., Montreal, Quebec, Canada. Steering arrangement for motor cars. 1,920,651; Aug. 1.
Mackintosh, William B., Wabash, Ind., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Radiator valve. 1,920,757; Aug. 1.
Macksoud, Michel E., New York, N. Y., assignor to The Electron Corporation, East Orange, N. J. Combined amplifying and rectifying system. 1,920,576; Aug. 1.
Maddenford, Frank. (See Good, Herbert F., assignor.)
Madsen, Viggo, Paris, France. Bust-holder. 1,920,705; Aug. 1.
Malinowski, Felix, Brooklyn, N. Y. Folding table. 1,920,577; Aug. 1.
Manning & Co. (See Snow, Herbert C., assignor.)
Manufacture General Metallurgique, Societe Anonyme. (See Mautsch, Robert, assignor.)
Marchant Calculating Machine Company. (See Friden, Carl M. F., assignor.)
Mark, Clayton & Company. (See Sykes, Wilfred, assignor.)
Marsden, John E., Philadelphia, Pa. Heat exchange containers and batteries thereof. 1,920,515; Aug. 1.
Marsh, Joseph R. C., assignor to Francis N. Bard, Chicago, Ill. Iron or steel and making or treating same. 1,920,909; Aug. 1.
Marsh, Joseph R. C., Arlington Heights, assignor to Francis N. Bard, Chicago, Ill. Alloy steel and its manufacture. 1,920,910; Aug. 1.
Martin, Adam F., Saginaw, Mich. Shingle. 1,920,474; Aug. 1.
Martin, Mark H., assignor to T. H. Symington & Son, Inc., Baltimore, Md. Center plate and guide structure. 1,920,415; Aug. 1.
Mason, Frank B. (See Lauge, Alfred B., and Mason.)
Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Spring suspension for individually sprung wheels. 1,920,206; Aug. 1.
Matzow, Paul, Magdeburg, Germany. Device for producing cast chains composed of single links. 1,920,578; Aug. 1.
Maurice, Charles E., et al. (See Maury, A. D., and Fitz Gerald, assignors.)
Maury, Alfred D., Ilion, and J. A. Fitz Gerald, Utica, assignors of one-third to T. W. Schmidt, Ilion, one-sixth to C. E. Maurice, Mohawk, N. Y., one-third to said J. A. Fitz Gerald and one-sixth to said A. D. Maury. Periscope attachment for cash registers. 1,920,473; Aug. 1.
Mautsch, Robert, assignor to Manufacture Generale Metallurgique, Societe Anonyme, Brussels, Belgium. Heat exchange apparatus. 1,920,318; Aug. 1.
McCausland, John W., Chicago, Ill., assignor to The Griscom-Russell Company, New York, N. Y. Heat exchanger. 1,920,800; Aug. 1.
McDonough, Everett G., Mount Vernon, assignor to Zotos Corporation, New York, N. Y. Hair waving pad. 1,920,758; Aug. 1.
McDonough, Everett G., Mount Vernon, assignor to Zotos Corporation, New York, N. Y. Hair waving pad. 1,920,759; Aug. 1.
McEwan, Matthew H., London, England. Regenerative furnace. 1,920,872; Aug. 1.
McGary, Francis L., Hardinsburg, Ky. Device for applying box straps. 1,920,413; Aug. 1.
McGlauthen, Katherine L., St. Louis, Mo. Child's bed. 1,920,580; Aug. 1.
McGuirk, Charles W., Albany, N. Y., assignor to Barco Manufacturing Co., Chicago, Ill. Flexible metallic coupling. Re.18,906; Aug. 1.
McHale, Michael J., Scranton, Pa. Flier construction. 1,920,414; Aug. 1.
McIlvried, Edwin J., Cleveland, Ohio, assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y. Strand working apparatus. 1,920,207; Aug. 1.
McKee, James H., Pittsburgh, Pa., assignor to Pittsburgh Screw and Bolt Corporation. Heating, hardening, and tempering of hollow steel propeller blades. 1,920,652; Aug. 1.
McKenzie, Marcellus J., Cincinnati, Ohio. Article of tableware. 1,920,516; Aug. 1.
McLaughlin, William B., assignor to Fiberboard Products Inc., San Francisco, Calif. Carton spout. 1,920,653; Aug. 1.
McNally, James O. (See Pidgeon, H. A., and McNally.)
Meinecke & Company. (See Johnson, Edward, assignor.)
Melaun, Ernst, Indianapolis, Ind. Collapsible grillage guard for door and window openings. 1,920,416; Aug. 1.
Meloon, Nathaniel W., Buffalo, N. Y. Spraying nozzle. 1,920,874; Aug. 1.
Mergenthaler Linotype Company. (See Ackerman, W., and Kingsbury, assignors.)
Metal Products Company. (See Cocks, Harry J., assignor.)
Metcalf, Irving R., assignor to Latham Machinery Company, St. Charles, Ill. Conveying mechanism for a stitching machine and the like. 1,920,417; Aug. 1.
Meurer, Hans. (See Haanen, K. A., and Meurer.)
Meyer, August, Berlin, Schoneberg, assignor to Gesellschaft fur Oberbauforschung und Rangiertechnik m. b. H., Berlin, Germany. Eddy current car retarder. 1,920,760; Aug. 1.
Meyer, Edward B., Cleveland, Ohio. Track clearing implement. 1,920,475; Aug. 1.
Meyer, Frank W., assignor, by mesne assignments, to Oshkosh Trunks, Inc., Oshkosh, Wis. Drawer locking mechanism for trunks. 1,920,654; Aug. 1.
Meyer, John F., Chicago, Ill. Vending machine casing. Des. 90,410; Aug. 1.
Meyercord, George R., and W. Waterman, Chicago, Ill., said Waterman assignor to said Meyercord. Means for conveying and cleaning cotton in a harvesting machine. 1,920,418; Aug. 1.
Michelin Et Cie. (See Bourdon, Pierre M., assignor.)
Michelssen, Fritz, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Overload protection means for piezo-electric crystals. 1,920,655; Aug. 1.
Miehle Printing Press & Manufacturing Company, The. (See Dudley, Edward F., assignor.)
Milburn, Charles G., Upper Arlington, Ohio. Machine for placing plastic materials. 1,920,443; Aug. 1.
Miller, Charles, New York, N. Y. Shoe. Des. 90,411; Aug. 1.
Miller, Charles, New York, N. Y. Shoe. Des. 90,412; Aug. 1.
Miller, Samuel, New York, N. Y. Hand bag. 1,920,802; Aug. 1.
Miller, Stuart P., Tenafly, N. J., assignor to The Barrett Company, New York, N. Y. Distillation of tar, etc. 1,920,267; Aug. 1.
Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Distillation of tar, etc. 1,920,801; Aug. 1.
Miller, Walter K., La Grange, assignor to Shellmar Products Company, Chicago, Ill. Printing machines. 1,920,419; Aug. 1.
Miller, Wendell E., and W. J. Sheubrooks, West Palm Beach, Fla., assignors to Automatic Phonograph Corporation. Phonograph. 1,920,936; Aug. 1.
Mills, Wallace C., assignor to J. L. Clark Manufacturing Company, Rockford, Ill. Metallic spool or reel. 1,920,420; Aug. 1.
Mills, Wallace C., assignor to J. L. Clark Manufacturing Co., Rockford, Ill. Metallic spool. 1,920,421; Aug. 1.
Mills, Wallace C., assignor to J. L. Clark Manufacturing Co., Rockford, Ill. Metallic spool. 1,920,422; Aug. 1.
Miner, W. H., Inc. (See O'Connor, John F., assignor.)
Minneapolis-Honeywell Regulator Company. (See Mackintosh, William B., assignor.)
Minneapolis-Honeywell Regulator Company. (See Shivers, Paul F., assignor.)
Minnis, Wesley, Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Purification of solid aromatic compounds containing adhering impurities. 1,920,517; Aug. 1.
Miskend, Herbert L., assignor to Lande & Miskend, Inc., New York, N. Y. Jewelry. 1,920,875; Aug. 1.
Mitchell, Courtney N., Cleveland Heights, assignor, by mesne assignments, to The J. & M. Machine Company, Cleveland, Ohio. Composite steering wheel. 1,920,423; Aug. 1.
Mitchell Specialty Company. (See Kulicke, F. W., Butler and Moore, assignors.)
Mock, Frank C., Montclair, assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J. Transmission. 1,920,579; Aug. 1.
Molins, Desmond W., Bexley, England. Manufacturing cigarettes. 1,920,708; Aug. 1.
Molins, Walter E., London, England. Cigarette making machine. 1,920,706; Aug. 1.
Molins, Walter E., London, England. Cigarette making machine. 1,920,709; Aug. 1.
Molins, Walter E., Deptford, London, England. Packing machinery. 1,920,707; Aug. 1.
Mollet, Samuel J., Massillon, Ohio. Inking mechanism. 1,920,424; Aug. 1.
Moore, Clarence W. (See Kulicke, F. W., Butler and Moore.)
Moore, George C., Company. (See Moore, Harold Q., assignor.)
Moore, Harold Q., assignor to George C. Moore Company, Westerly, R. I. Adjustable garment supporter. 1,920,876; Aug. 1.
Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,920,425; Aug. 1.
Morgan, Johns, jr. (See Young, F. J., Long, and Morgan.)

Moriya, Saburo M., Arden, assignor of one-half to F. L. Grier, Milford, Del. Metal coffee receptacle. 1,920,268; Aug. 1.
Morrell, Jacque C., assignor to Universal Oil Products Company, Chicago, Ill. Refining and purification of hydrocarbon oils. 1,920,270; Aug. 1.
Morrill, Philip E., Webster Groves, and C. V. Brady, assignors to Bemis Bro. Bag Co., St. Louis, Mo. Fastener. 1,920,518; Aug. 1.
Morrissey, Michael F., Indianapolis, Ind. Police club. 1,920,519; Aug. 1.
Morrison, Montford, Montclair, N. J., assignor to Westinghouse X-Ray Company, Inc. Automatic adjustment of circuit breakers. 1,920,656; Aug. 1.
Morsbach, Kurt, Berlin-Grunewald, assignor to Projector G. m. b. H., Berlin, Germany. Reel for films and other flexible material. 1,920,657; Aug. 1.
Morton, Henry E., Muskegon Heights, Mich. Traversing support for metal working machines. 1,920,476; Aug. 1.
Muldoon, Bernard F., Mountain View, N. J., and J. E. Johnson, assignors to H. Hyman, Brooklyn, N. Y. Flash light. 1,920,814; Aug. 1.
Muller, Carl W., Dresden-Weisser Hirach, assignor to the Firm Universelle Cigarettenmaschinen-Fabrik J. C. Muller & Co., Dresden, Germany. Method of and apparatus for the production of covered boxes. 1,920,761; Aug. 1.
Müller, Hermann. (See Klatte, F., and Müller.)
Muller, Robert L., assignor to Burroughs Adding Machine Company, Detroit, Mich. Multiple register calculating machine. 1,920,477; Aug. 1.
Multigraph Company. (See Allen, William R., assignor.)
Munters, Carl G. (See von Platen, B. C., and Munters.)
Murphy, Demery A., Torrance, and A. J. Hodge, Lomita, Calif., assignors to The National Supply Company, Toledo, Ohio. Pressure packed swing joint. 1,920,658; Aug. 1.
Murphy, Edward A., United States Army, Raritan Arsenal, Metuchen, N. J. Packing unit. 1,920,269; Aug. 1.
Murphy, Elizabeth J. (See Murphy, T. W., Otis, and Waddel, assignors.)
Murphy, Thomas W., and J. C. Otis, Pierpont, and W. G. Waddel, Webster, said Murphy assignor of one-third to E. J. Murphy, Pierpont, S. Dak. Supporting device for golf bags. 1,920,581; Aug. 1.
Murray, William M. (See Gesel, A. J., and Murray.)
Mutti, Ido, Gozzano, Italy, assignor to The Firm American Bemberg Corporation, New York, N. Y. Recovery of copper compounds from the waste liquors of the cuprammonium silk stretch spinning process. 1,920,208; Aug. 1.
Myers, George D., assignor to The Edwards Manufacturing Company, Cincinnati, Ohio. Traffic marker. 1,920,582; Aug. 1.
Myers, Thomas G., assignor to U. S. Electrical Manufacturing Company, Los Angeles, Calif. Dynamo-electric machine. 1,920,315; Aug. 1.
N. V. Stabilovolt. (See Körös, Ladislaus, assignor.)
Nagashev, Boris V., Lynn, Mass., assignor to General Electric Company. Control system for alternating current motors. 1,920,803; Aug. 1.
National Aniline & Chemical Company. (See Minnis, Wesley, assignor.)
National Automatic Tool Company, The. (See Schafer, Robert A., assignor.)
National Carbon Company. (See Dorcas, Merrill J., assignor.)
National Carbon Company. (See Greider, Clarence E., assignor.)
National Cash Register Company, The. (See Fuller, Frederick L., assignor.)
National Cash Register Company, The. (See Green, Charles W., assignor.)
National Cash Register Company, The. (See Shipley, Bernis M., assignor.)
National Police Signal Company. (See Bauer, Gustav F. C., assignor.)
National Sewing Machine Company. (See List, R. F., and Smith, assignors.)
National Supply Company, The. (See Murphy, D. A., and Hodge, assignors.)
National Supply Company, The. (See Timbs, Edward, assignor.)
National Supply Company of Delaware, The. (See Timbs, E., and Walters, assignors.)
National Supply Company, The. (See Young, F. J., Long and Morgan, assignors.)
Nawiasky, Paul and A. Krause, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Vat dyestuffs of the pyrazolanthrone series and making them. 1,920,426; Aug. 1.
Naylon, Elton T., East Cleveland, Ohio. Device for indicating wear of brushes. 1,920,659; Aug. 1.
Neff, Johannes, Dresden, assignor to the Firm "Universelle" Cigarettenmaschinen-Fabrik J. C. Müller & Co., Dresden, Germany. Treating articles produced in one machine and consumed in another machine. 1,920,762; Aug. 1.
Neff, John P. (See Siegel, C. A., and Neff.)
Nell, Gustave M., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Valve controlled fluid pressure tool. 1,920,763; Aug. 1.
Nelson, Ferdinand L., Los Angeles, Calif. Luminescent tube terminal connection sockets. 1,920,710; Aug. 1.
Neufeldt & Kuhnke G. m. b. H., the Firm. (See Hausrath, Herbert, assignor.)
New Departure Manufacturing Company, The. (See Stevens, Clarence C., assignor.)
New York Engineering Company. (See Lowy, Arthur, assignor.)
Nibbs, Ernest. (See Spear, L. Y., Grieshaber, and Nibbs.)
Nickle, Clifford A., Schenectady, N. Y., assignor to General Electric Company. Electrical instrument. 1,920,764; Aug. 1.
Nienhold, Johannes, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Glow discharge rectifier with hollow cathodes. 1,920,660; Aug. 1.
Noonan, Harry, White Plains, assignor to The Drug Products Co., Inc., Long Island City, N. Y. Mineral oil emulsion. 1,920,926; Aug. 1.
Nord, Benjamin, assignor to Whitney Metal Products Corp., New York, N. Y. Circle suspension. 1,920,520; Aug. 1.
Nordberg Manufacturing Company. (See Symons, Edgar B., assignor.)
North American Chemical Company. (See Thoma, Andrew, assignor.)
Norton, Charles H., Plainville, Conn., assignor to Norton Company, Worcester, Mass. Lathe and turning round bodies. 1,920,209; Aug. 1.
Norton Company. (See Larsson, Thure, assignor.)
Norton Company. (See Norton, Charles H., assignor.)
Norton Company. (See Wood, Wallace H., assignor.)
Norton, Fred E., Kennebunk, Maine. Hook and bait holder. 1,920,478; Aug. 1.
Nourse, Walter H., assignor to Electric Steel Foundry Company, Portland, Oreg. Ferrule for cable ends and forming same. 1,920,927; Aug. 1.
Obergfell, Herbert F., River Forest, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Calling device and calling device indicia ring support. 1,920,210; Aug. 1.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Railway draft rigging. 1,920,316; Aug. 1.
Odegard, Clifford A., Gonvick, Minn. Hitching device for tractors. 1,920,878; Aug. 1.
Oexmann, Heinrich, Berlin-Lichterfelde, Germany. Decorating buttons. 1,920,317; Aug. 1.
O'Hare, John, Chicago, Ill. Motor controlled steering mechanism. 1,920,583; Aug. 1.
O'Harra, Berry M. (See Rose, C. A., and O'Hara.)
Oil Well Supply Company. (See Greve, Edgar E., assignor.)
Olsson, Nils A., Bellevue, and C. P. Fuller, Pittsburgh, Pa., assignors to The Koppers Company of Delaware. Coking apparatus. 1,920,911; Aug. 1.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,920,271; Aug. 1.
Oshkosh Trunks, Inc. (See Meyer, Frank W., assignor.)
Osman, Ralph T., assignor to Koehring Company, Milwaukee, Wis. Spring suspension. 1,920,661; Aug. 1.
Österberg, Karl E. R., assignor to J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag, Stockholm, Sweden. Sawing of logs. 1,920,584; Aug. 1.
Otis, John C. (See Murphy, T. W., Otis, and Waddel, assignors.)
Ott, Karl, Leverkusen, and H. Schüssler, Cologne-Deutz, Germany, assignors, by mesne assignments, to General Aniline Works, Inc., New York, N. Y. Condensation product of alkali metal bisulphites with octadecadiene-9, 11-acid-1 or its amide. 1,920,585; Aug. 1.
Ottinger, Nathan, New York, N. Y. Brief case, portfolio and other container. 1,920,586; Aug. 1.
Ousdahl Adolph, Seattle, Wash., assignor, by mesne assignments, to H. M. Brooks, New York, N. Y., W. T. Gardiner, Augusta, Maine, and R. K. Hawes, Fall River, Mass., trustees. Coal stoker. 1,920,912; Aug. 1.
Pacini, August J., assignor to Sun-A-Sured, Inc., Chicago, Ill. Antiricketic substance and the production thereof. 1,920,587; Aug. 1.
Pacini, August J., Chicago, Ill., assignor to C. M. Richter, New York, N. Y. Treating tobacco. 1,920,588; Aug. 1.
Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
Page, Albert E., Brooklyn, assignor to Scott & Williams, Incorporated, New York, N. Y. Automatic machine for making patterned hosiery. 1,920,427; Aug. 1.
Page, Alwin jr., Bellevue, Pa., assignor to The Koppers Company of Delaware. Bracket for belt pulleys. 1,920,950; Aug. 1.
Page, Frank R., Brooklyn, assignor to Scott & Williams, Incorporated, New York, N. Y. Variable splicing means for knitting machines. 1,920,879; Aug. 1.
Palm, Hugo, Bloomfield, N. J., assignor to Westinghouse Lamp Company. Radiotube base pin locating device. 1,920,662; Aug. 1.
Palmer, Raymond G., Sherbourne Hill, Warwick, England. Vehicle for collecting containers. 1,920,663; Aug. 1.
Palnut Company, The. (See Hotchkin, James R., assignor.)
Pank, Harold George, Adelaide, South Australia, Australia. Optical testing apparatus. 1,920,428; Aug. 1.
Paper Patents Company. (See Keck, Daniel H., assignor.)
Paradis, Joseph P. (See Chouinard, M., and Paradis.)
Paraffine Companies, The. (See Finley, Dozier, assignor.)

Parker, Elgia L., Hobart, Ind. Propeller construction. 1,920,880; Aug. 1.
Parker, Kenneth S. (See Tefft, I. D., and Parker.)
Parker Pen Company, The. (See Tefft, I. D., and Parker, assignors.)
Parks & Woolson Machine Company. (See Richardson, Charles G., assignor.)
Parnell, John J. (See Knowles, E. B., and Parnell.)
Pastor, Carl T., Krefeld, Germany. Printing apparatus. 1,920,429; Aug. 1.
Patent and Licensing Corporation, The. (See Walton, Samuel F., assignor.)
Paton, George C. and J. S., assignors to J. S. Paton, Liverpool, England. Manufacture of tubes from paper, carboard and the like materials. 1,920,881; Aug. 1.
Paton, James S. (See Paton, George C. and J. S.)
Patterson, Clarence T., assignor to The Solvay Process Company, Syracuse, N. Y. Refining of lead. 1,920,211; Aug. 1.
Patterson Lewis P., West Los Angeles, Calif. Locking device. 1,920,521; Aug. 1.
Pauly Jail Building Company. (See Tracy, Michael J., assignor.)
Payne, George Ralph, Texarkana, Ark. Ring cup for fictile pipes. 1,920,589; Aug. 1.
Payne, Reginald W., and R. P. Roberts, Spondon, near Derby, England, assignors to Celanese Corporation of America. Manufacturing artificial threads or filaments. 1,920,212; Aug. 1.
Pederson, John, St. Louis, Mo. System of control for electric elevators. 1,920,590; Aug. 1.
Peelle Company, The. (See Bancroft, James E., assignor.)
Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Delivering molten glass charges to shallow molds. 1,920,593; Aug. 1.
Pelizzola, Mino, Milan, Italy. Safety razor. 1,920,711; Aug. 1.
Pellow, Robert E., Waco, Tex. Display case. 1,920,882; Aug. 1.
Peo, Ralph F., assignor to Houde Engineering Corporation, Buffalo, N. Y. Shock absorber. 1,920,272; Aug. 1.
Peo, Ralph F., assignor to Houde Engineering Corporation, Buffalo, N. Y. Shock absorber. 1,920,273; Aug. 1.
Pepin, Joseph N., Chicago, assignor to G. Curtis Bird, Wilmette, Ill. Automatic sound reproducer. 1,920,430; Aug. 1.
Perfection Steel Body Company, The. (See Cohen, Harry, assignor.)
Perkins, Chester A., South Bend, Ind. Engine cooling system. 1,920,883; Aug. 1.
Permutit Company, The. (See Liebknecht, Otto, assignor.)
Perrone, Benjamin, Woodside, and F. Santoro, New York, N. Y. Time switch. 1,920,664; Aug. 1.
Perry, Leo H., Schenectady, N. Y., assignor to General Electric Company. System of distribution. 1,920,804; Aug. 1.
Persky, Joseph, New York, N. Y. Textile fabric. Des. 90,413; Aug. 1.
Persky, Joseph, New York, N. Y. Textile fabric. Des. 90,414; Aug. 1.
Pesci, Thomas, Raritan, assignor to The Cott-A-Lap Company, Somerville, N. J. Reciprocating mechanism. 1,920,591; Aug. 1.
Peters, John A., Highland Park, Ill. Wheel holding device. 1,920,592; Aug. 1.
Petersen, Hans, Wauwatosa, assignor, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis. Drum controller. 1,920,431; Aug. 1.
Peterson, Edward S., Elmwood Park, assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 1,920,213; Aug. 1.
Peterson, Harold O., Riverhead, N. Y., assignor to Radio Corporation of America. Symmetrical loop receiver. 1,920,665; Aug. 1.
Petit, Leon T., Pittsburg, Calif. Checker chamber for regenerative furnaces and the like. 1,920,885; Aug. 1.
Petrovich, Louis, Paris, France. Suction stack for chimneys. 1,920,884; Aug. 1.
Pettibone Mulliken Company. (See Llewellyn, Samuel G., assignor.)
Pfleger, George T., assignor to U. S. Electrical Manufacturing Company, Los Angeles, Calif. Submersible power unit. 1,920,318; Aug. 1.
Pfluke, Frederick J., and L. B. Bowman, Rochester, N. Y., assignor to The Koppers Company of Delaware. Coke oven apparatus. 1,920,913; Aug. 1.
Pildgeon, Howard A., and J. O. McNally, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave translating system. 1,920,274; Aug. 1.
Pier, Mathias, Heidelberg, Germany, assignor by mesne assignments to Standard I-G. Company, Linden, N. J. Production of valuable liquid products from solid distillable carbonaceous materials by destructive hydrogenation. 1,920,887; Aug. 1.
Pier, Mathias, Heidelberg, M. Wildhagen, Mannheim, and W. Schunck, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J. Valuable products from carbonaceous substances. 1,920,886; Aug. 1.
Pier, Mathias, Heidelberg, and W. Rumpf, Ludwigshafen-on-the-Rhine, Germany, assignors by mesne assignments to Standard-I. G. Company, Linden, N. J. Destructive hydrogenation of distillable carbonaceous materials. 1,920,888; Aug. 1.
Pilcher, Charles F., St. Louis, Mo. Freewheeling device. 1,920,712; Aug. 1.
Pilling, Norman B., Elisabeth, N. J., and T. E. Kihlgren, West New Brighton, S. I., assignors to The International Nickel Company, Inc., New York, N. Y. Nickel welding wire containing titanium. 1,920,432; Aug. 1.
Pinson, Newt A., Jefferson, Ga. Double wire and cable gripping device. 1,920,522; Aug. 1.
Pioneer Rubber Company, The. (See Gibson, John C., assignor.)
Pittsburgh Plate Glass Company. (See Halbach, Howard L., assignor.)
Pittsburgh Plate Glass Company. (See Heichert, Herman S., assignor.)
Pittsburgh Screw and Bolt Corporation. (See McKee, James H., assignor.)
Pocock, Merton A., et al. (See Sager, Lee R., assignor.)
Poeppelmeier, Frank H., Dayton, assignor by mesne assignments to Set-O-Type Manufacturing Company, Cleveland, Ohio. Forming metal type tubes. 1,920,275; Aug. 1.
Poggel, George E., assignor to Advance Manufacturing Company, Louisville, Ky. Dehumidifier. 1,920,914; Aug. 1.
Poggel, George E., assignor to Advance Manufacturing Company, Louisville, Ky. Dehumidifier. 1,920,915; Aug. 1.
Ponder, R. E., et al. (See Jacobi, Arthur W., assignor.)
Poole, Arthur F., Ithaca, N. Y. Recording meter. 1,920,479; Aug. 1.
Poole, Francis A., Cleveland, Ohio. Shoring device. 1,920,438; Aug. 1.
Powell, Floyd J., assignor to U. A. Burnett, Marshall, Mo. Rolling shelf. 1,920,666; Aug. 1.
Prescott, Ford L., Dayton, Ohio, assignor of one-third to D. C. Squires and one-third to J. F. Diehl, Coral Gables, Fla. System of manufacture of solidified carbon dioxide gas. 1,920,434; Aug. 1.
Preuss, Alexander B., Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Telephone system. 1,920,214; Aug. 1.
Price, Robert H. (See Ward, Wilfred B., assignor.)
Prince, Samuel S., Binghamton, N. Y. Safety switch. 1,920,713; Aug. 1.
Procter, John A., assignor, by mesne assignments, to General Electric Company, Lexington, Mass. Direction finder loop and control. 1,920,215; Aug. 1.
Projector G. m. b. H. (See Morsbach, Kurt, assignor.)
Pullen, Fred W., assignor to Bissell Carpet Sweeper Co., Grand Rapids, Mich. Carpet sweeper. 1,920,889; Aug. 1.
Pullman Car & Manufacturing Corporation. (See Lacke, William A., assignor.)
Pupillo, Thomas, et al. (See Ramondetta, Gaetano, assignor.)
Radinse, Rudolf R., Avon Lake, Ohio. Rotary brush. 1,920,667; Aug. 1.)
Radio Corporation of America. (See Beane, E. A., and Andrews.)
Radio Corporation of America. (See Bol, Cornelis, assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Kroger, Fred H., assignor.)
Radio Corporation of America. (See Peterson, Harold O., assignor.)
Radio Corporation of America. (See Timmer, Anton L., assignor.)
Rafferty, Arthur W. (See Wilkins, C. E., and Rafferty.)
Raffold Process Corporation. (See Rafton, Harold R., assignor.)
Rafton, Harold R., Andover, Mass., assignor to Raffold Process Corporation. Paper manufacture. 1,920,942; Aug. 1.
Raizess, George W., Philadelphia, Pa., assignor to Abbott Laboratories, North Chicago, Ill. Oleaginous solution of mercury compounds and preparing the same. 1,920,523; Aug. 1.
Ramondetta, Gaetano, assignor of ten per cent to T. Pupillo, ten per cent to G. Lopisso, ten per cent to A. Seta, thirty per cent to S. Costanzo, and ten per cent to S. Reibera, New York, N. Y. Automatic vehicle jack. 1,920,216; Aug. 1.
Ramsburg, Charles J., Edgeworth, Pa., assignor to The Koppers Company of Delaware. Gas manufacture. 1,920,951; Aug. 1.
Randolph, Charles P., Oak Park, assignor to Edison General Electric Appliance Company, Chicago, Ill. Heating system for internal combustion engines. 1,920,805; Aug. 1.
Rasch, Ludvik, Oslo, Norway. Percussion tool. 1,920,765; Aug. 1.
Rasmussen, Anders, New Albany, Ind. Steering mechanism. 1,920,890; Aug. 1.
Reading Hardware Corporation. (See Diehl, William S., assignor.)

Real Silk Hosiery Mills, Inc. (See Thompson, William L., assignor.)
Reed, Allie L., executrix. (See Reed, William S.)
Reed, Thomas L., Los Angeles, Calif. Safety sadiron. 1,920,668; Aug. 1.
Reed, William R. (See Britton, E. C., and Reed.)
Reed, William S., deceased, Allie L. Reed, executrix, Leominster, Mass. Coupling. 1,920,524; Aug. 1.
Refractory and Engineering Corporation. (See Clark, Horace N., assignor.)
Regenhardt Construction Company. (See Regenhardt, T. R., and Kassel, assignors.)
Regenhardt, Theodore R., and C. Kassel, assignors to Regenhardt Construction Company, Cape Girardeau, Mo. Subgrading machine. 1,920,319; Aug. 1.
Reibera, Sebastiano, et al. (See Ramondetta, Gaetano, assignor.)
Reiman, Paul, New York, N. Y. Textile fabric or the like. Des. 90,415; Aug. 1.
Reiman, Paul, assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,416; Aug. 1.
Reith, Chester F., Clayton, Mo., assignor to The Juvenile Shoe Corporation of America, Aurora, Ill. Shoe. Des. 90,417; Aug. 1.
Reynolds, Frank C. (See Bennett, I. T., and Reynolds.)
Reynolds Spring Company. (See Atwood, John T., assignor.)
Rheinländer, Paul, Altena in Westfalen, assignor to P. de Bruyn, Dusseldorf, Germany. Ring balance. 1,920,594; Aug. 1.
Riccelli, Joseph A., Cambridge, Mass. Lock for window sashes and doors. 1,920,669; Aug. 1.
Rich, Theodore A., Schenectady, N. Y., assignor to General Electric Company. Control device. 1,920,806; Aug. 1.
Richardson, Charles G., assignor to Parks & Woolson Machine Company, Springfield, Vt. Selective seam detector. 1,920,916; Aug. 1.
Richardson, John W. (See Lewis, A. J., Richardson, and Spill.)
Richardson, John W. (See Lewis, A. J., Richardson, Spill, and Haven.)
Richens, John M., Jacksonville, Fla. Corner fastener. 1,920,276; Aug. 1.
Richter, Charles M. (See Pacini, August J., assignor.)
Richter, Emil, assignor to Schletter & Zander, Inc., Philadelphia, Pa. Full-fashioned knitting machine. 1,920,435; Aug. 1.
Ridings, Robert F., et al. (See Briggs, Alva S., assignor.)
Riggan, Robert C., et al. (See Briggs, Alva S., assignor.)
Riker, Andrew L., Fairfield, assignor to Rubber Shock Insulator Corporation, Bridgeport, Conn. Vibration insulator. 1,920,436; Aug. 1.
Roberts, Robert P. (See Payne, R. W., and Roberts.)
Robinson, Joseph, New York, N. Y. Automatic train pipe connecter head. 1,920,277; Aug. 1.
Robinson, Joseph, New York, N. Y. Automatic train pipe connecter. 1,920,278; Aug. 1.
Robinson, Joseph, New York, N. Y. Automatic train pipe connecter. 1,920,279; Aug. 1.
Rockstroh, Walter, Dresden, Germany. Driving gear for printing presses. 1,920,891; Aug. 1.
Roderwald, Rudolf, Berlin, Germany, assignor to The Dayton Roderwald Company, Dayton, Ohio. Manufacturing toothed V-type belts of rubber impregnated cloth 1,920,525; Aug. 1.
Roebling's, John A., Sons Company. (See Bellis, Alfred P. S., assignor.)
Rogers, Philip H., Rocky Mount, N. C. Spirit level. 1,920,892; Aug. 1.
Rogers, W. D., et al. (See Hamilton, Victor N., assignor.)
Roller, Franz, Stuttgart-Wangen, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Lubricating means. 1,920,714; Aug. 1.
Roosa, Herbert H., Rochester, N. Y. Fabric envelope covered metal shank for shoes. 1,920,670; Aug. 1.
Rose, Charles A., Cranford, N. J., assignor to American Smelting and Refining Company, New York, N. Y. Electrolytic refining of brass. 1,920,819; Aug. 1.
Rose, Charles A., Cranford, and B. M. O'Harra, Westfield, N. J., asignors to American Smelting & Refining Company, New York, N. Y. Refining of brass. 1,920,820; Aug. 1.
Rosenstein, Ludwig, and W. J. Hund, assignors to Shell Development Company, San Francisco, Calif. Motor fuel. 1,920,766; Aug. 1.
Rosmait, John A., Manistee, assignor to Filer Fibre Company, Filer City, Mich. Paper bag and closure therefor. 1,920,320; Aug. 1.
Rosmait, John A., Manistee, assignor to Filer Fibre Company, Filer City, Mich. Paper bag and closure therefor. 1,920,321; Aug. 1.
Rosmait, John A., Manistee, assignor to Filer Fibre Company, Filer City, Mich. Paper bag. 1,920,322; Aug. 1.
Rossman, Allen M., Filmette, assignor to Rossman, Sargent & Lundy Patents Corporation, Chicago, Ill. Method and system of regulation. 1,920,323; Aug. 1.
Rossman, Sargent & Lundy Patents Corporation. (See Rossman, Allen M., assignor.)
Rota, Alex, assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,418; Aug. 1.
Rubber Shock Insulator Corporation. (See Riker, Andrew L., assignor.)
Rubinger, Louis, assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,419; Aug. 1.
Rubinger, Louis, assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,420; Aug. 1.
Rubinger, Louis, assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,421; Aug. 1.
Rubinger, Louis, assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,422; Aug. 1.
Rubinger, Louis, assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,423; Aug. 1.
Rudd, Harry B., Douglaston, N. Y. Ice forming device. 1,920,526; Aug. 1.
Rudolph, Alfred P., Denver, Colo. Powder compact. 1,920,893; Aug. 1.
Ruegg, Joseph B., San Francisco, Calif. Closure fastener. 1,920,595; Aug. 1.
Rumpf, Willhelm. (See Pier, M., and Rumpf.)
Runser, Fredrick J., and R. Blaho, assignors to The Byrne Manufacturing Company, Cleveland, Ohio. Container. 1,920,807; Aug. 1.
Ruppel, Sigwart, Frankfort-on-the-Main, Germany. Electric switch. 1,920,894; Aug. 1.
Ruthsaccumulator Aktiebolag. (See Föhl, Carl, assignor.)
Ryan, Leon H., et al. (See Barnes, Joseph H., assignor.)
Sager, Lee R., assignor of one-third to A. W. Julian and one-third to M. A. Pocock, Minneapolis, Minn. Laundry flat piece spreader and carrier. 1,920,715; Aug. 1.
Sander, Eugen, Muenchen-Menterschwaige, Germany. Surgical bandaging. 1,920,808; Aug. 1.
Sanitary Garbage Body Mfg. Co. (See Silver, Jesse W., assignor.)
Santoro, Frank. (See Perrone, B., and Santoro.)
Scales, Lewis J., Gary, Ind., assignor to Signode Steel Strapping Company, Chicago, Ill. Loading and transporting merchandise. 1,920,917; Aug. 1.
Schafer, Robert A., assignor to The National Automatic Tool Company, Richmond, Ind. Hydraulic actuating and control valve means. 1,920,596; Aug. 1.
Schäfer, Wilhelm, Mannheim, Germany. Concrete and like block making machine. 1,920,716; Aug. 1.
Schaumann, Otto. (See Bockmühl, M., Lindner, and Schaumann.)
Schellenger, Newton C., assignor to Chicago Telephone Supply Company, Elkhart, Ind. Rheostat. 1,920,217; Aug. 1.
Scheller, Curt, Chemnitz, Germany. Flat hosiery frame. 1,920,597; Aug. 1.
Scheurer, Wilhelm. (See Krech, R., Scheurer, and Koch.)
Schilb, Theodore W. (See Warning, W. G., and Schilb.)
Schirmer William H., Hibbing, Minn. Heating coil. 1,920,598; Aug. 1.
Schletter & Zander, Inc. (See Richter, Emil, assignor.)
Schmelz, Charles F., et al. (See Dasley, William, assignor.)
Schmidt, Albert H., Palatine, Ill. Dye compounds and producing same. 1,920,324; Aug. 1.
Schmidt, Karl, Munich-Gladbach, Germany. Producing aniline black and preventing the weakening of the fibers. 1,920,717; Aug. 1.
Schmidt, Karl, Berlin-Lichtenrade, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Electric induction furnace. 1,920,325; Aug. 1.
Schmidt, Theodore W., et al. (See Maury, A. D., and Fitz Gerald, assignors.)
Schmiedel, Johannes, assignor to the Firm Universelle Cigarettenmaschinen-Fabrik J. C. Muller & Co., Dresden, Germany. Producing box or container parts having a curved bottom. 1,920,809; Aug. 1.
Schmiedel, Johannes, assignor to the Firm Universelle Cigarettenmaschinen-Fabrik, J. C. Muller & Co., Dresden, Germany. Making cigarette cartons. 1,920,810; Aug. 1.
Schrader's, A., Son, Inc. (See Lewis, A. J., Richardson and Spill, assignors.)
Schrader's, A., Son, Inc. (See Lewis, A. J., Richardson, Spill and Haven, assignors.)
Schroeder, Harry C., et al. (See Langbein, Harold W., assignor.)
Schuck, Raymond W., Homewood, and J. L. Brown, Verona, Pa., assignors to Westinghouse Electric and Manufacturing Company. Vertical oil bearing. 1,920,326; Aug. 1.
Schub, Charles F., Lexington, assignor to The Cando Corporation, Cambridge, Mass. Vaporizer. 1,920,599; Aug. 1.
Schulmeyer, Johannes C., Bloemendaal, Netherlands. Dirigible headlight. 1,920,527; Aug. 1.
Schunck, Walter. (See Pier, M., Wildhagen, and Schunck.)
Schüssler, Heribert. (See Ott, K. and Schüssler.)
Schwabacher, Gerhard P., Bridgeport, Conn., assignor to General Electric Company. Outlet box. 1,920,811; Aug. 1.
Scott, Walter J., Woonsocket, R. I. Stop motion for roving and spinning machines. 1,920,767; Aug. 1.
Scott & Williams, Incorporated. (See Page, Frank R., assignor.)

Seidenfaden, Wilhelm. (See Zitscher, A., Seidenfaden and Jellinek.)
Selden Company, The. (See Jaeger, Alphons O., assignor.)
Selleck, Frederick C., Cold Spring, N. Y. Distributor head. 1,920,480; Aug. 1.
Senftner, Georg, Berlin, assignor to Werkhof Gesellschaft mit beschrankter Haftung, Bremen, Germany. Preservation of the aroma of tobacco and tobacco goods. 1,920,483; Aug. 1.
Seta, Anthony, et al. (See Ramondetta, Gaetano, assignor.)
Set-O-Type Manufacturing Company. (See Poeppelmeier, Frank H., assignor.)
Sewell, Charles W., Allentown, Pa. Briquette and method of manufacturing briquettes. 1,920,327; Aug. 1.
Sewell, Theodore C., Portland, Oreg. Sugar dispenser. 1,920,895; Aug. 1.
Sharples Specialty Company, The. (See Clark, Lee H., assignor.)
Sharples Specialty Company, The. (See Jones, Leo D., assignor.)
Shaw, Joseph A. (See Sperr, F. W. jr., and Shaw.)
Sheaffer, W. A., Pen Company. (See Lindemon, W. H., and Lammers, assignors.)
Sheehan William M. (See Lentz, W. L., and Sheehan.)
Shell Development Company. (See Rosenstein, L., and Hund, assignors.)
Shellmar Products Company. (See Miller, Walter K., assignor.)
Sherwin, Everett E., Mamaroneck, N. Y. Textile fabric or the like. Des. 90,424; Aug. 1.
Sheubrooks, William J. (See Miller, W. E., and Sheubrooks.)
Shipley, Bernis M., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,920,328; Aug. 1.
Shivers, Paul F., Wabash, Ind., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Radiator valve. 1,920,896; Aug. 1.
Shoults, David R., Scotia, N. Y., assignor to General Electric Company. Control system. 1,920,897; Aug. 1.
Schultz, Albert B., assignor to Houde Engineering Corporation, Buffalo, N. Y. Shock absorber. 1,920,218; Aug. 1.
Sidebotham, Melvin H., West Newton, assignor to Specialty Automatic Machine Company, Chelsea, Mass. Paper container. 1,920,529; Aug. 1.
Siebs, Claude T., Nutley, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Supporting device. 1,920,219; Aug. 1.
Siegel, Chester A., Newark, and J. P. Neff, East Orange, N. J., assignors to American Arch Company, New York, N. Y. Locomotive. 1,920,812; Aug. 1.
Siemen, Otto, and J. Hinsch, Itzehoe, Germany. Rotary pump. 1,920,484; Aug. 1.
Siemens & Halske Aktiengesellschaft. (See Nienhold, Johannes, assignor.)
Siemens & Halske Aktiengesellschaft. (See Preuss, Alexander B., assignor.)
Signode Steel Strapping Company. (See Scales, Lewis J., assignor.)
Sillers, Donald A., Dallas, Tex. Separating device. 1,920,437; Aug. 1.
Silver, Jesse W., Tacoma, Wash., assignor to Sanitary Garbage Body Mfg. Co. Vehicle for collection and hauling of garbage. 1,920,485; Aug. 1.
Simkins, Howard D., East Cleveland, and O. P. De Loe, assignors to The Superior Screw & Bolt Manufacturing Company, Cleveland, Ohio. Machine for finishing bolts and screws. 1,920,600; Aug. 1.
Sinclair Refining Company. (See Tinker, Frank, assignor.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Singer Manufacturing Company, The. (See Wood, Alfred R., assignor.)
Slack, Charles M., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Electron discharge device. 1,920,601; Aug. 1.
Slaughter, Charles E., Montclair, N. J. Milk bottle spout. Des. 90,425; Aug. 1.
Smallwood, Alfred, Handsworth, Birmingham, England. Clamp for tubes, bars, and the like. 1,920,602; Aug. 1.
Smith, A. O., Corporation. (See Harris, Herbert, assignor.)
Smith, Walter A. (See List, R. F., and Smith.)
Smith, William E., Lakewood, Ohio. Pickling vat and coating therefor. 1,920,486; Aug. 1.
Smith, William F., et al. (See Dasley, William, assignor.)
Smith, William J., Brockton, assignor to Firth-Smith Company, Boston, Mass. Apparatus for operating on spinning frames and other machines. 1,920,768; Aug. 1.
Snow, Herbert C., Auburn, Ind., assignor to Manning & Co., Chicago, Ill. Oil filling device for crank cases. 1,920,530; Aug. 1.
Societa Italiano Pirelli. (See Faldini, Mario, assignor.)
Societe Anonyme des Ateliers Brille Freres. (See Battegay, Constant, assignor.)
Societe Chimique de la Grande Paroisse Azote & Produits Chimiques. (See Gosselin, A. H. A., assignor.)
Société De Recherches & D'Exploitations Petrolifères. (See Godel, Albert, assignor.)
Solvay Process Company, The. (See Patterson, Clarence T., assignor.)
Sommer, Samuel, San Francisco, Calif. Permanent wave heater. 1,920,531; Aug. 1.
Soule, Arthur C., San Francisco Calif. Sash hanger. 1,920,898; Aug. 1.
Sowter, Percy F. C. (See Dickie, W. A., and Sowter.)
Spaeth, Charles P., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of absorbent material. 1,920,438; Aug. 1.
Spear, Lawrence Y., H. E. Grieshaber, and B. Nibbs, New London, assignors to Electric Boat Company, Groton, Conn. Submarine propulsion. 1,920,280; Aug. 1.
Specialty Automatic Machine Company. (See Sidebotham, Melvin H., assignor.)
Speck, Walter, Haledon, N. J., assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,426; Aug. 1.
Spence, Howard. (See Bailey, F. W., Crundall, and Spence.)
Spence, Peter, & Sons, Limited. (See Bailey, F. W., Crundall and Spence, assignors.)
Sperr, Frederick W., jr., Pittsburgh, Pa., assignor to The Koppers Company of Delaware. Revivifying fouled gas purifying material. 1,920,603; Aug. 1.
Sperr, Frederick W., jr., and J. A. Shaw, Pittsburgh, Pa., assignors to The Koppers Company of Delaware. Treatment of liquids containing tar acids. 1,920,604; Aug. 1.
Sperry Gyroscope Company. (See Brewerton, Arthur E., assignor.)
Spill, Charles J. (See Lewis, A. J., Richardson, and Spill.)
Spill, Charles J. (See Lewis, A. J., Richardson, Spill, and Haven.)
Squires, Dann C., et al. (See Prescott, Ford L., assignor.)
Stainhofer, Dickson, Lewistown, Mont. Ventilator cap. 1,920,918; Aug. 1.
Staley, Harrison L., Martinsville, Ind. Aerating device. 1,920,220; Aug. 1.
Standard-I. G. Company. (See Pier, Mathias, assignor.)
Standard-I. G. Company. (See Pier, M., and Rumpf, assignors.)
Standard-I. G. Company. (See Pier, M., Wildhagen, and Schunck, assignors.)
Standard Oil Company. (See Warwick, William E., assignor.)
Standard Stoker Company, The. (See Harrison, Benjamin F., assignor.)
Standard Stoker Company, The. (See Turner, Edwin A., assignor.)
Standard Stoker Company, The. (See Williams, David T., assignor.)
Standish, John F., Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe support. 1,920,281; Aug. 1.
Steckel, Abram P., assignor to The Cold Metal Process Company, Youngstown, Ohio. Tinning long strips. 1,920,439; Aug. 1.
Stegmann, Karl, assignor to Johne-Werke Grofische Maschinen-Aktiengesellschaft, Bautzen, Germany. Paper cutting machine. 1,920,718; Aug. 1.
Steidley, Thomas C., Fairmont, W. Va. Set of playing cards. Des. 90,427; Aug. 1.
Stevens, Clarence C., Forestville, assignor to The New Departure Manufacturing Company, Bristol, Conn. Machine tool carriage control. 1,920,532; Aug. 1.
Stevenson, Alexander R., jr., Schenectady, N. Y., assignor to General Electric Company. Refrigerated burner nozzle. 1,920,769; Aug. 1.
Steward, Edwin L., Conneaut, Ohio. Ice cream mixer. 1,920,605; Aug. 1.
Stewart, Carlton D., Berkeley, assignor to Associated Engineering and Supply Company, San Francisco, Calif. Fluid fuel controller. 1,920,440; Aug. 1.
Stewart, Nelson H., Verona, N. J., assignor to Westinghouse Lamp Company. X-ray cathode shield. 1,920,606; Aug. 1.
Stich, Eugen, Mannheim, Germany. Aerating device. 1,920,719; Aug. 1.
Stitell, Harry D., Highland Park, Ill. Advertising display device. 1,920,221; Aug. 1.
Stoker, Charles L., Los Angeles, Calif., assignor, by mesne assignments, to L. A. Williams, Evanston, Ill., and C. C. Bradbury, Glencoe, Ill., trustees. Automatic fuel regulator for internal combustion engines. 1,920,487; Aug. 1.
Stone, Charles W., Schenectady, N. Y., assignor to General Electric Company. Electric distribution system. 1,920,814; Aug. 1.
Storms, Earl W., Los Angeles, Calif. Receptacle lock. 1,920,813; Aug. 1.
Strauss, Nathan J., assignor to Freydberg Bros., Inc., New York, N. Y. Material for wrapping or covering articles. 1,920,533; Aug. 1.
Sturtevant, B. F., Company. (See Allen, George W., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Sullivan, William L., Pasadena, Calif. Hair cloth holder. 1,920,899; Aug. 1.
Summers, Omar, assignor of one-half to Roman Yesse, Seattle, Wash. Tie strap. 1,920,607; Aug. 1.
Sun-A-Sured, Inc. (See Pacini, August J., assignor.)
Superheater Company, The. (See Kavanagh, James F., assignor.)

Super Mold Corporation. (See Thurman, W. B., and Woock, assignors.)
Superior Screw & Bolt Manufacturing Company, The. (See Simkins, H. D., and De Loe, assignors.)
Sutherland, Daniel M., jr., Morrisville, Lower Wakefield Township, Bucks County, Pa. Manufacture of fiber sheets and apparatus therefor. 1,920,481; Aug. 1.
Swan-Finch Oil Corporation. (See Lange, A. R., and Mason, assignors.)
Swann Research, Inc. (See Warning, W. G., and Schilb, assignors.)
Swearingen, Garrett V., and E. S. Dixon, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Corrosion resistant lining for cracking apparatus. 1,920,534; Aug. 1.
Swensen, Christian, Duluth, Minn. Nut cracker. Des. 90,428; Aug. 1.
Swole, Paul C., Clinton, Conn. Self-closing outlet-fitting for air-gauges. 1,920,441; Aug. 1.
Sykes, Wilfred, assignor, by mesne assignments, to Clayton Mark & Company, Chicago, Ill. Apparatus for producing electrically welded pipe and tubing. 1,920,900; Aug. 1.
Symington, T. H., & Son, Inc. (See Martin, Mark H., assignor.)
Symons, Edgar B., Hollywood, Calif., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Gyratory cone crusher. 1,920,488; Aug. 1.
Tagliabue, Charles J., Mfg. Co. (See Bast, Frank J., assignor.)
Tainton, Urlyn C., St. Louis, Mo. Purification of solutions of zinc salts. 1,920,442; Aug. 1.
Taylor, Harden F., Scarsdale, assignor to The Atlantic Coast Fisheries Company, New York, N. Y. Treating comestibles. 1,920,222; Aug. 1.
Taylor Wharton Iron & Steel Company. (See MacFayden, Loudon E., assignor.)
Tefft, Ivan D., and K. S. Parker, assignors to The Parker Pen Company, Janesville, Wis. Mechanical pencil. 1,920,770; Aug. 1.
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Michelssen, Fritz, assignor.)
Ternstedt Manufacturing Company. (See Haskins, H. B., and Lakin, assignors.)
Texas Company, The. (See Swearingen, G. V., and Dixon, assignors.)
Thermo Electric Company. (See Hermann, Otto, assignor.)
Thoen, Lowell H., Stockton, assignor, by mesne assignments, to Caterpillar Tractor Co., San Leandro, Calif. Engine mounting. 1,920,444; Aug. 1.
Thoma, Andrew, Cambridge, assignor to North American Chemical Company, Boston, Mass. Shoe filler. 1,920,771; Aug. 1.
Thompson, Dorsey, Philadelphia, Pa. Battery connection. 1,920,608; Aug. 1.
Thompson, William L., assignor to Real Silk Hosiery Mills, Inc., Indianapolis, Ind. Self-supporting hosiery. 1,920,943; Aug. 1.
Thurlings, Hermann, Viersen, Germany. Machine for stamping soft kneadable masses into bon-bons and the like. 1,920,445; Aug. 1.
Thurman, William B., and H. J. Woock, Lodi, Calif., assignor to Super Mold Corporation. Applying retread rubber to tires. 1,920,720; Aug. 1.
Tidemann, Herman A., Toronto, Ontario, Canada. Bent window glass. Des. 90,429; Aug. 1.
Tilly, Ernest C., Ilford, England. Vehicle windshield wiper, the like normally used on motor cars and other propelled carriages. 1,920,447; Aug. 1.
Timbs, Edward, Los Angeles, Calif., assignor to The National Supply Company, Toledo, Ohio. Steel hose joint. 1,920,610; Aug. 1.
Timbs, Edward, and D. W. Walters, Los Angeles, Calif., assignors to The National Supply Company of Delaware, New York, N. Y. Bearing structure. 1,920,609; Aug. 1.
Timmer, Anton L., Eindhoven, Netherlands, assignor to Radio Corporation of America. Amplifying system. 1,920,611; Aug. 1.
Tinker, Frank, Streetly, England, assignor to Sinclair Refining Company, New York, N. Y. Distillation of crude oil. 1,920,815; Aug. 1.
Tippett, Leonard S. C., Sydney, Australia, assignor to Westinghouse Electric & Manufacturing Company. High-speed relaying equipment. 1,920,329; Aug. 1.
Tirrell, Leslie L., Washington, D. C. Spraying device. 1,920,721; Aug. 1.
Titlestad, Nicolay. (See Hechenbleikner, I., and N. Titlestad.)
Torrey, Gilberta G. (See Booth, H. S., and Torrey.)
Toscano, Francisco, Los Banos, Calif. Combination padlock. 1,920,489; Aug. 1.
Toulmin, Harry A., jr., assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio. 1,920,482; Aug. 1.
Towns, Percy F., Onchan, Isle of Man. Handle for vessels containing hot liquids. 1,920,330; Aug. 1.
Tracy, Michael J., St. Louis County, assignor to Pauly Jail Building Company, St. Louis, Mo. Wall construction. 1,920,490; Aug. 1.
Trautvetter, George, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Vehicle door construction. 1,920,816; Aug. 1.
Tribo Limited. (See Bentley, Marguerite E., assignor.)
Tryon, William, Lima, Peru. Oil burner. 1,920,446; Aug. 1.
Turner, Edward T., Dayton, Ohio. Water softening apparatus. Re18,909; Aug. 1.
Turner, Edwin A., New York, N. Y., assignor to The Standard Stoker Company, Incorporated. Locomotive stoker. 1,920,535; Aug. 1.
Turner Tanning Machinery Company, The. (See Ballard, Harrie A., assignor.)
Tyler, W. S., Company. (See Brown, H. E., and Boehm, assignors.)
Typograph G. m. b. H. (See Uhthoff, Eduard, assignor.)
Uhthoff, Eduard, Berlin-Charlottenburg, assignor to Typograph G. m. b. H., Berlin, Germany. Mold for matrix setting and type-line casting machines. 1,920,448; Aug. 1.
Umegaki, Sotoji, Nishi Sugamo Machine Kitatoshima Gun, and H. Hisamatsu, Hachimandori, shibuya Machi, Toyotama Gun, Tokyo Fu, Japan. Fastening glass. 1,920,722; Aug. 1.
Union Switch & Signal Company, The. (See Zierdt, Conrad H., assignor.)
United American Bosch Corporation. (See French, B. V. K., and Cohen, assignors.)
United Shoe Machinery Corporation. (See Ashworth, Fred, assignor.)
United Shoe Machinery Corporation. (See Glass, Perley E., assignor.)
United Shoe Machinery Corporation. (See Goddu, George, assignor.)
United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)
United Shoe Machinery Corporation. (See Hardenbrook, Charles E., jr., assignor.)
United Shoe Machinery Corporation. (See Hoppe, Otto F., assignor.)
United Shoe Machinery Corporation. (See Jorgensen, Bernhardt, assignor.)
United Shoe Machinery Corporation. (See Standish, John F., assignor.)
U. S. Electrical Manufacturing Company. (See Myers, Thomas G., assignor.)
U. S. Electrical Manufacturing Company. (See Pfleger, George T., assignor.)
United States Gypsum Company. (See Birdsey, Charles B., assignor.)
United States Gypsum Company. (See Carpenter, Carroll E., assignor.)
United Steel and Wire Company. (See Jarvis, Charles H., assignor.)
Universal Button Fastening & Button Company. (See Clark, John M., assignor.)
Universal Button Fastening and Button Company. (See Clark, J. M., and Ford, assignors.)
Universal Oil Producers Company. (See Day, Roland B., assignor.)
Universal Oil Products Company. (See Morrell, Jacque C., assignor.)
"Universelle" Cigarettenmaschinen-Fabrik, J. C. Muller & Company. (See Jähne, Ernst H., assignor.)
Universelle Cigarettenmaschinen-Fabrik, J. C. Muller & Co. (See Muller, Carl W., assignor.)
"Universelle" Cigarettenmaschinen-Fabrik, J. C. Müller & Co. (See Neff, Johannes, assignor.)
Universelle Cigarettenmaschinen-Fabrik, J. C. Muller & Co. (See Schmiedel, Johannes, assignor.)
Unke, Herman A., Cleveland, Ohio. Pipe joint. 1,920,449; Aug. 1.
Vadnais, Alexander H. (See Chapman, A. B., and Vadnais.)
Vahlkamp, William E., Wayne, Nebr. Poultry feeder. 1,920,536; Aug. 1.
Van Benthuysen, Herbert L., assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,430; Aug. 1.
Van Derhoef, Henry E., assignor to Eastman Kodak Company, Rochester, N. Y. Film forming element. Re18,908; Aug. 1.
Van Woert, Myron P., Cleveland, Ohio, assignor, by mesne assignments, to Waugh Equipment Company, New York, N. Y. Fire box construction. 1,920,817; Aug. 1.
Vensie, Frederick M., Philadelphia, Pa. Building structure. 1,920,919; Aug. 1.
Vensie, Frederick M., Philadelphia, Pa. Building construction. 1,920,920; Aug. 1.
Vernor, James, Company. (See Doughty, William E., assignor.)
Verrall, Victor E., Fort Wayne, Ind., assignor to General Electric Company. Electroresponsive device. 1,920,818; Aug. 1.
Victor Chemical Works. (See Weigel, R., and Bachman, assignors.)
Vincent, Harry S., Ridgewood, N. J. Locomotive driving box. 1,920,772; Aug. 1.
Vivas, Fernando S., Pelham Manor, N. Y. Producing chlorinated hydrocarbon liquids. 1,920,282; Aug. 1.
Vodos, Frederick W., Wilmette, assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,920,450; Aug. 1.
Vogt, Henry, Machine Co. (See Kubaugh, Benjamin F., assignor.)
Vollmann, Heinrich. (See Kränzlein, G., and Vollmann.)

Von Knilling, Walter, Mannheim, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of condensation products of a urea and formaldehyde. 1,920,451; Aug. 1.

Von Platen, Baltzar C., and C. G. Munters, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,920,612; Aug. 1.

Voss, Arthur. (See Jochum, K., Voss, Geier, and Dickhauser.)

Vroom, Guysbert B., U. S. Navy. Cleaning boiler and condense tubes. 1,920,283; Aug. 1.

Waddel, William G. (See Murphy, T. W., Otis, and Waddel, assignors.)

Wagner, Robert E., Lakewood, Ohio. Desk. 1,920,452; Aug. 1.

Walker, Fletcher L., Westwood, Calif. Apparatus for moving material. 1,920,613; Aug. 1.

Wallgren, August G. F., assignor to Aktiebolaget Nomy, Stockholm, Sweden. Bearing. 1,920,723; Aug. 1.

Wallgren, August G. F., and C. G. Janson, assignors to Aktiebolaget Nomy, Stockholm, Sweden. Bearing. 1,920,724; Aug. 1.

Wallgren, August G. F., assignor to Aktiebolaget Nomy, Stockholm, Sweden. Bearing. 1,920,725; Aug. 1.

Wallgren, August G. F., assignor to Aktiebolaget Nomy, Stockholm, Sweden. Bearing. 1,920,726; Aug. 1.

Wallgren, August G. F., assignor to Aktiebolaget Nomy, Stockholm, Sweden. Bearing. 1,920,727; Aug. 1.

Walters, Daniel W. (See Timbs, E., and Walters.)

Walton, Samuel F., Hamburg, assignor, by mesne assignments, to The Patent and Licensing Corporation, New York, N. Y. Granule and producing same. 1,920,773; Aug. 1.

Ward, Wilfred B., assignor to R. H. Price, Richmond, Ind. Guide for correct grinding of twist drills. 1,920,537; Aug. 1.

Ware, Olaf L., Minneapolis, Minn. Window structure. 1,920,614; Aug. 1.

Warning, William G., and T. W. Schlib, St. Louis, Mo., assignors to Swann Research, Inc. Tricalcium phosphate and aluminum phosphate composition salt filler. Re18,907; Aug. 1.

Warwick, William E., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Conversion of high-boiling hydrocarbon oils into lower boiling hydrocarbon oils. 1,920,331; Aug. 1.

Wassenaar, Jan J. S., Pilgrims Rest, Transvaal, Union of South Africa. Distraction bone forceps. 1,920,821; Aug. 1.

Waterbury Brass Goods Corporation, The. (See Davis, Albert L., assignor.)

Waterman, William. (See Meyercord, G. R., and Waterman.)

Watkins, James O., San Francisco, Calif., assignor to International Communications Laboratories, Inc., New York, N. Y. Short wave signaling apparatus. 1,920,223; Aug. 1.

Watson, Edward F., assignor to American Telephone and Telegraph Company, Larchmont, N. Y. Telegraphic intercommunicating system. 1,920,453; Aug. 1.

Waugh Equipment Company. (See Van Woert, Myron P., assignor.)

Waugh, John. (See Lamont, James H., assignor.)

Weaver, Allan, assignor to American Telephone and Telegraph Company, Port Washington, N. Y. Signal distortion indicating device. 1,920,454; Aug. 1.

Weaver, Leo L., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Rotating mechanism. 1,920,224; Aug. 1.

Webb, Jervis B., Royal Oak, Mich. Trolley for conveyer systems. 1,920,774; Aug. 1.

Weber, Mathias J., assignor to Continental Scale Works, Chicago, Ill. Scale. 1,920,332; Aug. 1.

Week, Edmund R., jr. (See Fanger, Herman J., assignor.)

Weigel, Rothe, Wilmette, Ill., and P. W. Bachman, Nashville, Tenn., assignors to Victor Chemical Works, Chicago, Ill. Cellular slag. 1,920,728; Aug. 1.

Weis, Henry, Manufacturing Company. (See Jones, A. E., and Lewis, assignors.)

Weld, Foster E. (See Beach, C. E., and Weld.)

Wells, Burling D., Danbury, assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Water heater control. 1,920,284; Aug. 1.

Weltz, Henry F. (See Dorst, J., and Weltz.)

Wenk, Juan, Madrid, Spain, assignor to Landis & Gyr, A-G., Zug, Switzerland. Switching mechanism. 1,920,538; Aug. 1.

Werkhof Gesellschaft mit beschrankter Haftung. (See Senfter, Georg, assignor.)

West, Edward E., Richmond, Va. Bag stringing machine. 1,920,822; Aug. 1.

West, Edward E., Richmond, Va. Draw string bag and making the same. 1,920,824; Aug. 1.

West, Edward E., Richmond, Va., and D. Clymer, Reidsville, N. C., assignors to said Edward E. West. Bag stringing machine. 1,920,823; Aug. 1.

Western Electric Company. (See Blount, H., and Larsen, assignors.)

Western Electric Company. (See Boe, Helmer J., assignor.)

Western Electric Company. (See Carter, Herbert F., assignor.)

Western Electric Company. (See Ford, B. H., and Lamme, assignors.)

Western Electric Company. (See Larsen, Einer W., assignor.)

Western Electric Company. (See McIlvried, Edwin J., assignor.)

Western Electric Company. (See Siebs, Claude T., assignor.)

Western Electric Company. (See Weaver, Leo L., assignor.)

Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)

Westinghouse Air Brake Company. (See Hewitt, Ellis E., assignor.)

Westinghouse Electric & Manufacturing Company. (See Ashbaugh, J. H., and Geiselman, assignors.)

Westinghouse Electric & Manufacturing Company. (See Carpenter, David E., assignor.)

Westinghouse Electric & Manufacturing Company. (See Coleman, John B., assignor.)

Westinghouse Electric & Manufacturing Company. (See Ellis, Charles E., jr., assignor.)

Westinghouse Electric & Manufacturing Company. (See Griscom, S. B., and Evans, assignors.)

Westinghouse Electric & Manufacturing Company. (See Schuck, R. W., and Brown, assignors.)

Westinghouse Electric & Manufacturing Company. (See Tippett, Leonard S. C., assignor.)

Westinghouse Lamp Company. (See Conn, Robert W., assignor.)

Westinghouse Lamp Company. (See Driggs, Frank H., assignor.)

Westinghouse Lamp Company. (See Ehrke, Louis F., assignor.)

Westinghouse Lamp Company. (See Lederer, Ernest A., assignor.)

Westinghouse Lamp Company. (See Palm, Hugo, assignor.)

Westinghouse Lamp Company. (See Slack, Charles M., assignor.)

Westinghouse Lamp Company. (See Stewart, Nelson H., assignor.)

Westinghouse X-Ray Company. (See Morrison, Montford, assignor.)

Weston Electrical Instrument Corporation. (See Goodwin, William N., jr., assignor.)

White Cap Company. (See White, William P., assignor.)

White, Rollin H., Cleveland Heights, Ohio. Tractor lubricating system. 1,920,225; Aug. 1.

White, William P., Glencoe, assignor to White Cap Company, Chicago, Ill. Package sealing method and apparatus. 1,920,539; Aug. 1.

Whitinsville Spinning Ring Company. (See Harding, Charles E., assignor.)

Whitney Metal Products Corp. (See Nord, Benjamin, assignor.)

Whittaker, Colin W., and F. O. Lundstrom, Washington, D. C., dedicated to the free use of the public. Production of nitrosylchloride. 1,920,333; Aug. 1.

Whittaker, Harry. (See Dannenberg, C. B., and Whittaker.)

Whittaker, James L., Allendale, assignor of one-third to R. E. Hantzsch, Springfield, N. J., and one-third to D. R. Lamont, Brooklyn, N. Y. Centralized radio system. 1,920,775; Aug. 1.

Whitworth, Sir W. G. Armstrong, Aircraft Limited. (See Wylie, Hamilton N., assignor.)

Wicks, John, Oak Park, and H. G. Evers, assignors, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 1,920,226; Aug. 1.

Wilder, Harold K., assignor to Kellogg Company, Battle Creek, Mich. Storage carton. 1,920,227; Aug. 1.

Wildhagen, Max. (See Pier, M., Wildhagen, and Schunck.)

Wilkins, Charles E., and A. W. Rafferty, Sacramento, Calif. Fluid motor. 1,920,285; Aug. 1.

Williams, David T., New York, N. Y., assignor to The Standard Stoker Company, Incorporated. Locomotive stoking mechanism. 1,920,334; Aug. 1.

Williams, John J., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Two-piece jar closure. 1,920,286; Aug. 1.

Williams, Leo K., Omaha, Nebr. Page storage cabinet. 1,920,825; Aug. 1.

Williams, Lynn A., et al., trustee. (See Stokes, Charles L., assignor.)

Wilmet, Georges, New York, N. Y., assignor to Armstrong Cork Company, Lancaster, Pa. Container cap. Des. 90,431; Aug. 1.

Wilson, Ernest M., assignor to H. A. Hartshorn, Wm. F. Klinker, and E. M. Wilson, Portland, Oreg., trustees. Telephone message recording and reproducing apparatus. 1,920,729; Aug. 1.

Wilson, Ernest M., et al., trustees. (See Wilson, Ernest M., assignor.)

Wing, George A., assignor to The Cincinnati Advertising Products Company, Cincinnati, Ohio. Animated illuminated sign. 1,920,826; Aug. 1.

Winston, John R., R. C. Wright, and J. F. Wootten, Washington, D. C., dedicated to the Government and the people of the United States of America. Coloring fruits and vegetables. 1,920,540; Aug. 1.

Winthrop Chemical Company. (See Backmühl, M., Lindner, and Schaumann, assignors.)

Wiseman, John F., Dorchester, Mass. Windshield wiper. 1,920,730; Aug. 1.

Wolf, Clarence, assignor to Wolf Edger Company, Philadelphia, Pa. Safety razor blade honer. 1,920,491; Aug. 1.

Wolf Edger Company. (See Wolf, Clarence, assignor.)

Woock, Herbert J. (See Thurman, W. B., and Woock.)

Wood, Alfred R., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Thread-cutting mechanism for sewing machines. 1,920,944; Aug. 1.

Wood, Edwin C., East Orange, N. J. Bottle stopping liquid lifter and dispenser. 1,920,335; Aug. 1.

Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Conveyer. 1,920,615; Aug. 1.

Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Press unit drive. 1,920,616; Aug. 1.

Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)

Wood, Wallace H., assignor to Norton Company, Worcester, Mass. Feeding mechanism for machine tools. 1,920,228; Aug. 1.

Wood, Wilfred R., London, England, assignor to International Combustion Engineering Corporation, New York, N. Y. High pressure boiler. 1,920,776; Aug. 1.

Woods, William J., assignor to Corning Glass Works, Corning, N. Y. Method and apparatus for drawing glass. 1,920,336; Aug. 1.

Wooster, Philip A., San Francisco, Calif. Marking machine. 1,920,337; Aug. 1.

Wooster Products Inc. (See Connelly, D. S., and Hahn, assignors.)

Wootten, John F. (See Winston, J. R., Wright, and Wootten.)

Wright, Arthur C., Chicago, Ill. Periodic switch. 1,920,229; Aug. 1.

Wright, Robert C. (See Winston, J. R., Wright, and Wootten.)

Wünsch, Guido, Steglitz, near Berlin, assignor to Askania-Werke Akt. Ges. Vorm. Centralwerkstatt Dessau und Carl Bamberg-Friedenau, Berlin-Friedenau, Germany. Method of and apparatus for regulating or governing physical conditions. 1,920,827; Aug. 1.

Wyler, Max, Manchester, England, assignor to Imperial Chemical Industries Limited. Amino-xylenols and producing same. 1,920,828; Aug. 1.

Wyler, Max, Manchester, England, assignor to Imperial Chemical Industries Limited. Manufacture of basic dyestuffs. 1,920,829; Aug. 1.

Wylie, Hamilton N., assignor to Sir W. G. Armstrong Whitworth Aircraft Limited, Whitley, near Coventry, England. Making propeller blades. 1,920,830; Aug. 1.

Yesse, Roman. (See Summers, Omar, assignor.)

Young, Forrest J., Los Angeles, and S. W. Long, Redondo Beach, and J. S. Morgan, jr., Inglewood, Calif., assignors to The National Supply Company, Toledo, Ohio. Door type slip elevator. 1,920,617; Aug. 1.

Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container closure. 1,920,287; Aug. 1.

Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container closure. 1,920,288; Aug. 1.

Young, L. A., Spring and Wire Corporation. (See Heuer, Lawrence H., assignor.)

Zabriskie, William F., assignor to Gabriel Steel Company, Detroit, Mich. Transverse bracing for metallic floor joists. 1,920,831; Aug. 1.

Zapf, Georg, Cologne, assignor to Felten & Guilleaume Carlswerke Actien-Gesellschaft, Cologne-Mulheim, Germany. Dredger. 1,920,731; Aug. 1.

Zaun, George F., San Bernardino, Calif. Box car construction. 1,920,455; Aug. 1.

Zavertnik, Joseph, Harrington Park, and A. A. MacCubbin, Montclair, N. J., assignors to The Barrett Company, New York, N. Y. Saturating fabric. 1,920,541; Aug. 1.

Zellmann, Rudolf, assignor to Chemische Fabrik van Heyden, A. G., Radebeul, near Dresden, Germany. Therapeutic silica compounds, and making the same. 1,920,492; Aug. 1.

Zierdt, Conrad H., Rosedale, Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Voltage regulating apparatus. 1,920,618; Aug. 1.

Zilen, Victor W., Buffalo, N. Y. Draw works. 1,920,928; Aug. 1.

Zitscher, Arthur, W. Seidenfaden, and K. Jellinek, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. New dyeing preparations and its conversion to dyestuffs. 1,920,542; Aug. 1.

Zola, John C., Tarentum, Pa., assignor to Duplate Corporation. Laminated glass and making it. 1,920,619; Aug. 1.

Zotos Corporation. (See McDonough, Everett G., assignor.)

Zur Löwen, Waldemar, Wuppertal-Barmen, Germany, assignor to American Bemberg Corporation, New York, N. Y. Spinning centrifuge. 1,920,732; Aug. 1.

Zur Löwen, Waldemar, Wuppertal-Barmen, Germany, assignor to American Bemberg Corporation, New York, N. Y. Spinning centrifuge. 1,920,733; Aug. 1.

Zwietusch, Eduard O., Berlin-Steglitz, Germany, assignor to International Communications Laboratories, Inc., New York, N. Y. Telephone system. 1,920,230; Aug. 1.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1ST DAY OF AUGUST, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Absorbent material, Treatment of. C. P. Spaeth. 1,920,438; Aug. 1.
Accelerator foot pedal. H. J. Cocks. 1,920,550; Aug. 1.
Acid, Production of hydrocyanic. A. O. Jaeger. 1,920,795; Aug. 1.
Acid salt of B-bromethyltrimethyl-ammonium-theobromine-1-acetate and producing the same, Phosphoric. H. Hornstein. 1,920,697; Aug. 1.
Acids by heating under reduced pressure, Method and apparatus for the liberation or concentration of. I. Hechenbleikner and N. Titlestad. 1,920,307; Aug. 1.
Acids. Obtaining purified sulphonic. E. J. Hammers and E. Eichwald. 1,920,787; Aug. 1.
Advertising display device. H. D. Stitzell. 1,920,221; Aug. 1.
Aerating device. H. L. Staley. 1,920,220; Aug. 1.
Aerating device. E. Stich. 1,920,719; Aug. 1.
Air circulating means for portable hammer. J. N. Baker. 1,920,673; Aug. 1.
Airplane construction. H. H. Holloway. 1,920,507; Aug. 1.
Alkali metal bisulphites with octadecadiene-9, 11-acid-1 or its amide, Condensation product of. K. Ott and H. Schussler. 1,920,505; Aug. 1.
Alkyl halides, Preparation of. H. W. Daudt. 1,920,246; Aug. 1.
Alkyl halides, Preparation of. H. W. Daudt. 1,920,846; Aug. 1.
Alternating piston rotary engine. A. Kolko. 1,920,201; Aug. 1.
Aluminum alloy. L. W. Kempf and W. A. Dean. 1,920,262; Aug. 1.
Aluminum base alloy containing copper, nickel, and silicon. W. A. Dean. 1,920,249; Aug. 1.
Aluminum bronze powder and lubricants therefor, Producing. F. C. Arthur. 1,920,234; Aug. 1.
Aluminum-copper piston alloy. R. S. Archer and L. W. Kempf. 1,920,233; Aug. 1.
Amino-xylenols and producing same. M. Wyler. 1,920,828; Aug. 1.
Amplifier, High frequency. E. A. Beane and E. F. Andrews. 1,920,342; Aug. 1.
Amplifying and rectifying system, Combined. M. E. Macksoud. 1,920,576; Aug. 1.
Amplifying system. A. L. Timmer. 1,920,611; Aug. 1.
Aniline black and preventing the weakening of the fibers, Producing. K. Schmidt. 1,920,717; Aug. 1.
Antiricketic substance and the production thereof. A. J. Pacini. 1,920,587; Aug. 1.
Aromatic compounds containing adhering impurities, Purification of solid. W. Minnis. 1,920,517; Aug. 1.
Articles, Apparatus for heating. H. Frischkorn. 1,920,691; Aug. 1.
Articles, Method of and a system for impregnating. B. K. Ford and M. A. Lamme. 1,920,191; Aug. 1.
Articles produced in one machine and consumed in another machine, Treating. J. Neff. 1,920,762; Aug. 1.
Artificial materials, Production of. W. A. Dickie and P. F. C. Sowter. 1,920,188; Aug. 1.
Assembling machine. A. J. Lewis, J. W. Richardson, and C. J. Spill. 1,920,266; Aug. 1.
Atomizer or sprayer. C. H. Jarvis. 1,920,865; Aug. 1.
Automatic vehicle jack. G. Ramondetta. 1,920,216; Aug. 1
Bacterial fermentation without multiplying the cells, effecting. S. Bakonyi. 1,920,735; Aug. 1.
Baffle for straight tube boilers. J. F. Kavanagh. 1,920,708; Aug. 1.
Bag. H. H. Allen. Re18,905; Aug. 1.
Bag and making the same, Draw string. E. E. West. 1,920,824; Aug. 1.
Bag lock. A. Levine. Des. 90,409; Aug. 1.
Bag stringing machine. E. E. West. 1,920,822; Aug. 1.
Bag stringing machine. E. E. West and D. Clymer. 1,920,823; Aug. 1.
Bags: *See*—
Hand bag. Paper bag.
Golf bag.
Bathtub hanger. W. B. Lucke. 1,920,513; Aug. 1.
Battery connection. D. Thompson. 1,920,608; Aug. 1.
Battery terminal clamp. S. E. Carlson. 1,920,548; Aug. 1.
Bearing: *See*—
Vertical oil bearing.
Bearing. A. G. F. Wallgren. 1,920,723; Aug. 1.
Bearing. A. G. F. Wallgren. 1,920,725–7; Aug. 1.
Bearing. A. G. F. Wallgren and C. G. Janson. 1,920,724; Aug. 1.
Bearing structure. E. Timbs and D. W. Walters. 1,920,609; Aug. 1.
Bearing support. A. G. Brunner. 1,920,546; Aug. 1.
Bed, Child's. K. L. McGlauthen. 1,920,580; Aug. 1.
Belt. H. A. Toulmin, jr. 1,920,482; Aug. 1.
Belts of rubber impregnated cloth, Manufacturing toothed V-type. R. Roderwald. 1,920,525; Aug. 1.
Bicycle, Water. E. C. L. Herwig. 1,920,391; Aug. 1.
Block making machine, Concrete and like. W. Schäfer. 1,920,716; Aug. 1.
Bobbin stop motion. H. Howorth. 1,920,196; Aug. 1.
Boiler: *See*—
High pressure boiler. Steam boiler.
Boiler return and vacuum trap. S. F., E., C., and E. Knefel. 1,920,510; Aug. 1.
Bomb, Practise. H. E. Halland. 1,920,257; Aug. 1.
Bon-bons and the like, Machine for stamping soft kneadable masses into. H. Thürlings. 1,920,445; Aug. 1.
Boom for cranes, Extension. C. E. and J. A. Forsythe. 1,920,370; Aug. 1.
Bottle spout, Milk. C. E. Slaughter. Des. 90,425; Aug. 1.
Bottle stopping liquid lifter and dispenser. E. C. Wood. 1,920,335; Aug. 1.
Box: *See*—
Locomotive driving box. Shoe shine box.
Outlet box.
Box lid support. O. H. Crew. 1,920,679; Aug. 1.
Box or container parts having a curved bottom, Producing. J. Schmiedel. 1,920,809; Aug. 1.
Box straps, Device for applying. F. L. McGary. 1,920,413; Aug. 1.
Boxes from a pile; Apparatus for transferring. E. H. Jähne. 1,920,563; Aug. 1.
Boxes, Method of and apparatus for the production of covered. C. W. Müller. 1,920,761; Aug. 1.
Bracing for metallic floor joists, Transverse. W. F. Zabriskie. 1,920,831; Aug. 1.
Bracket for belt pulleys. A. Page, jr. 1,920,950; Aug. 1.
Braking component, Apparatus for measuring. H. W. Langbein. 1,920,263; Aug. 1.
Brass, Electrolytic refining of. C. A. Rose. 1,920,819; Aug. 1.
Brass refining. C. A. Rose and B. M. O'Harra. 1,920,820; Aug. 1.
Brief case, portfolio, and the like. N. Ottinger. 1,920,586; Aug. 1.
Briquette and manufacturing briquettes. C. W. Sewell. 1,920,327; Aug. 1.
Brush, Rotary. R. R. Radinse. 1,920,667; Aug. 1.
Brush, Shaving. E. S. Jones. 1,920,398; Aug. 1.
Brushes, Device for indicating wear of. E. T. Naylon. 1,920,659; Aug. 1.
Buckle, Belt. R. W. Ayers. 1,920,834; Aug. 1.
Building construction. F. M. Venzie. 1,920,920; Aug. 1.
Building structure. F. M. Venzie. 1,920,919; Aug. 1.
Burner: *See*—
Fluid fuel burner. Oil burner.
Fuel vapor burner.
Bust-holder. V. Madsen. 1,920,705; Aug. 1.
Button and its manufacture. J. M. Clark and I. D. Ford. 1,920,497; Aug. 1.
Buttons, Decorating. H. Oexmann. 1,920,317 Aug. 1.
Cabinet and analogous device. J. R. Jones. 1,920,707; Aug. 1.
Cabinet and booth, Combined voting machine. A. F. Foehrenbach. Des. 90,405; Aug. 1.
Cabinet, Page storage. L. K. Williams. 1,920,825; Aug. 1.
Cabinet, Radio. O. O. Cummings. Des. 90,400; Aug. 1.
Cabinet, Sliding door. J. E. Gloekler. 1,920,855; Aug. 1.
Cable forming machine. H. J. Boe. 1,920,182; Aug. 1.
Cable, High tension. K. A. Haanen and H. Meurer. 1,920,903; Aug. 1.
Cable reel. F. J. Counihan. 1,920,843; Aug. 1.
Cable reel. A. Lowy. 1,920,205; Aug. 1.
Cables, Connecting means for screened. G. Fossati. 1,920,553; Aug. 1
Calculating machine. C. M. F. Friden. Re.18,911; Aug. 1.
Calculating machine, Multiple register. R. L. Muller. 1,920,477; Aug. 1.
Call device and call device indicia support. H. F. Obergfell. 1,920,210; Aug. 1.
Can perforating and contents pouring lid. V. N. Hamilton, 1,920,385; Aug. 1.
Cap, Wave saving. F. Harper. 1,920,387; Aug. 1.
Capacitor. W. M. Bailey. 1,920,177; Aug. 1.
Car construction, Box. G. F. Zaun. 1,920,455; Aug. 1.
Car retarder, Eddy current. A. Meyer. 1,920,760; Aug. 1.
Carbon, Arc. M. J. Dorcas. 1,920,921; Aug. 1.
Carbon black, Thermal type. R. H. Brownlee. 1,920,352; Aug. 1.
Carbon copying system. E. Hano. 1,920,640; Aug. 1.
Carbon dioxide gas, System of manufacture of solid. F. L. Prescott. 1,920,434; Aug. 1.

Carbonaceous materials, Destructive hydrogenation of distillable. M. Pier and W. Rumpf. 1,920,888; Aug. 1.
Carbonaceous substances, Activation. A. Godel. 1,920,172; Aug. 1.
Carbonaceous substances, Valuable products from. M. Pier, M. Wildhagen, and W. Schunck. 1,920,886; Aug. 1.
Carburetor. J. E. Harris. 1,920,174; Aug. 1.
Cards, Set of playing. T. C. Steidley. Des. 90,427; Aug. 1.
Carton for frozen food products. A. B. Brackett. 1,920,184; Aug. 1.
Carton, Merchandising. J. W. Campbell. 1,920,353; Aug. 1.
Carton, Storage. H. K. Wilder. 1,920,227; Aug. 1.
Cartons, Making cigarette. J. Schmiedel. 1,920,810; Aug. 1.
Case: *See*—
Display case.
Cash register. F. L. Fuller. 1,920,464; Aug. 1.
Cash register. C. W. Green. 1,920,374–5; Aug. 1.
Cash register. B. M. Shipley. 1,920,328; Aug. 1.
Casing or cover for radiators. I. T. Bennett. 1,920,778; Aug. 1.
Cast products, Making. D. S. Connelly, W. and T. J. Hahn. 1,920,244; Aug. 1.
Cellulose ethers, in particular benzylcellulose, Manufacture of. A. Lautenberg. 1,920,702; Aug. 1.
Cellulose esters, Preparing. J. F. Haskins. 1,920,306; Aug. 1.
Cellulose, Preparing. A. B. Bori and J. M. Estape. 1,920,239; Aug. 1.
Center plate and guide structure. M. H. Martin. 1,920,415; Aug. 1.
Chains composed of single links, Device for producing cast. P. Matzow. 1,920,578; Aug. 1.
Chart, Tracing. C. Lorber. 1,920,704; Aug. 1.
Chassis frame and support, Combined. J. Kuchar. 1,920,571; Aug. 1.
Chimneys, Suction stack for. L. Petrovich. 1,920 884; Aug. 1.
Chlorinated hydrocarbon liquids, Producing. F. S. Vivas. 1,920,282; Aug. 1.
Cigar box hinge. S. C. Kling. 1,920,568; Aug. 1.
Cigarette making machine. W. E. Molins. 1,920,706; Aug. 1.
Cigarette making machine. W. E. Molins. 1,920,709; Aug. 1.
Cigarettes, Manufacturing. D. W. Molins. 1,920,708; Aug. 1.
Circle suspension. B. Nord. 1,920,520; Aug. 1.
Circuit breakers, Automatic adjustment of. M. Morrison. 1,920,656; Aug. 1.
Clamp: *See*—
Battery terminal clamp.
Clamp for tubes, bars, and the like. A. Smallwood. 1,920,602; Aug. 1.
Cleaning and polishing device particularly applicable for manicure purposes. M. E. Bentley. 1,920,738; Aug. 1.
Closure. M. B. Andrie. 1,920,833; Aug. 1.
Closure, Container. J. M. Young. 1,920,287–8; Aug. 1.
Closure fastener J. B. Ruegg 1,920,595; Aug. 1.
Closure for collapsible tubes and the like. C. J. Jesnig. 1,920,199; Aug. 1.
Closure, Two-piece jar. J. J. Williams. 1,920,286; Aug. 1.
Club, Police. M. F. Morrissey. 1,920,519; Aug. 1.
Cock, Safety gas. F. W. Kulicke, R. W. Butler, and C. W. Moore. 1,920,511; Aug. 1.
Coil, Heating. W. H. Schirmer. 1,920,598; Aug. 1.
Coke oven apparatus. L. S. Herrmann, jr. 1,920,949; Aug. 1.
Coking apparatus. N. A. Olsson and C. P. Fuller. 1,920,911; Aug. 1.
Color preparation for butter, oleomargarine, etc. L. Adler. 1,920,231; Aug. 1.
Comestibles, Treating. H. F. Taylor. 1,920,222; Aug. 1.
Compact, Powder. A. P. Rudolph. 1,920,893; Aug. 1.
Compass, Gyroscopic. A. E. Brewerton. 1,920,241; Aug. 1.
Composite steering wheel. C. N. Mitchell. 1,920,423; Aug. 1.
Composition, Lubricating. A. R. Lange and F. B. Mason. 1,920,202; Aug. 1.
Composition of matter for use in treatment of diseases of the skin. O. Haraldson. 1,920,639; Aug. 1.
Concrete form construction apparatus. P. A. Jones. 1,920,645; Aug. 1.
Condensation products of a urea and formaldehyde, Manufacture of. W. von Knilling. 1,920,451; Aug. 1.
Condensing apparatus. J. de Chamerlat. 1,920,681; Aug. 1.
Cone machine. A. Levy. 1,920,650; Aug. 1.
Cone winding apparatus. J. H. Barnes. 1,920,836; Aug. 1.
Connecter: *See*—
Mop connecter.
Connecter, Automatic train pipe. J. Robinson. 1,920,279; Aug. 1.
Container: *See*—
Paper container. Wirebound container.
Container. J. M. Hothersall. 1,920,504; Aug. 1.
Container. F. J. Runser and R. Blaho. 1,920,807; Aug. 1.
Container and holder unit. W. Jay. 1,920,393; Aug. 1.
Container cap. G. Wilmet Des. 90,431; Aug. 1.
Container, Making a ceramic. W. E. Bockmon. 1,920,459; Aug. 1.
Container of the hand opening and closing type and cover therefor. A. V. Green. 1,920,786; Aug. 1.
Control device. T. A. Rich. 1,920,806; Aug. 1.
Control device for shock absorbers, Remote. M. L. Fox. 1,920,192; Aug. 1.
Control for electric elevators, System of. J. Pedersen. 1,920,590; Aug. 1.
Control system. D. R. Shoults. 1,920,897; Aug. 1.
Control system for alternating current motors. B. V. Nagashev. 1,920,803; Aug. 1.
Control system, Train. A. E. Hudd. 1,920,197; Aug. 1.
Control valve. F. J. Bast. 1,920,458; Aug. 1.
Control, Water heater. B. D. Wells. 1,920,284; Aug. 1.
Controller, Drum. H. Petersen. 1,920,431; Aug. 1.
Controlling mechanism for multicolor printing presses, Traveling offset web. H. M. Barber. 1,920,178; Aug. 1.
Conveyer. H. A. W. Wood. 1,920,615; Aug. 1.
Conveyer apparatus for loading cars. J. A. Garcia and S. M. Cassidy. 1,920,500; Aug. 1.
Conveying mechanism for stitching machine and the like. I. R. Metcalf. 1,920,417; Aug. 1.
Cooling device. A. and J. M. González. 1,920,856; Aug. 1.
Cooling tower construction. W. J. Hoffmann. 1,920,642; Aug. 1.
Copper compounds from the waste liquors of the cuprammonium silk stretch spinning process, Recovery of. I. Mutti. 1,920,208; Aug. 1.
Core, Edge-wound. D. E. Carpenter. 1,920,354; Aug. 1.
Core splicing machine. E. W. Bebie. 1,920,343; Aug. 1.
Corner fastener. J. M. Richens. 1,920,276; Aug. 1.
Cotton in a harvesting machine, Conveying and cleaning. G. R. Meyercord and W. Waterman. 1,920,418; Aug. 1.
Coumarin, Manufacture of. E. C. Britton and W. A. Reed. 1,920,494; Aug. 1.
Coupler, Railway car. R. Lorenz and H. Egen. 1,920,410; Aug. 1.
Coupling: *See*—
Pipe coupling.
Coupling. W. S. Reed. 1,920,524; Aug. 1.
Coupling device. B. V. K. French and M. Cohen. 1,920,743; Aug. 1.
Coupling device. H. E. Lafayette. 1,920,408; Aug. 1.
Cover: *See*—
Tire cover.
Cover and marker, Medicine glass. E. Johnson. 1,920,396; Aug. 1.
Cradle, Electrically driven. J. Fleaca. 1,920,687; Aug. 1.
Crate, Collapsible. F. J. Klinka. 1,920,312; Aug. 1.
Crate for sheet materials. C. R. Birdsey. 1,920,837; Aug. 1.
Crotyl cellulose and crotyl cellulose compositions. H. B. Dykstra. 1,920,297; Aug. 1.
Crusher, Gyratory cone. E. B. Symons. 1,920,488; Aug. 1.
Current measuring apparatus, High frequency. W. A. Ford. 1,920,785; Aug. 1.
Curtain support. J. N. Henry. 1,920,195; Aug. 1.
Cutter: *See*—
Weed and grass cutter.
Dehumidifier. G. E. Poggel. 1,920,914–15; Aug. 1.
Dental impression material. L. E. Harrison. 1,920,857; Aug. 1.
Desk. R. E. Wagner. 1,920,452; Aug. 1.
Determining and measuring distances. A. M. Jackson. 1,920,259; Aug. 1.
Die: *See*—
Metal die. Perforating die.
Die casting machine. G. Aichele. 1,920,620; Aug. 1.
Dipper front. S. G. Llewellyn. 1,920,703; Aug. 1.
Direction finder loop and control. J. A. Procter. 1,920,215; Aug. 1.
Disks, Device for melting wax. G. Chevassus. 1,920,629; Aug. 1.
Dispensing apparatus. N. R. Kirk. 1,920,867; Aug. 1.
Display case. R. E. Pellow. 1,920,882; Aug. 1.
Distillates, Refining gasoline-containing. R. B. Day. 1,920,248; Aug. 1.
Distribution system. L. H. Perry. 1,920,804; Aug. 1.
Distributor head. F. C. Selleck. 1,920,480; Aug. 1.
Door construction, Vehicle. G. Trautvetter. 1,920,816; Aug. 1.
Door operating mechanism. J. E. Bancroft. 1,920,835; Aug. 1.
Door, Revolving. F. W. Johnson. 1,920,397; Aug. 1.
Doorstop. C. W. Halsey. 1,920,693; Aug. 1.
Draw works. V. W. Zilen. 1,920,928; Aug. 1.
Dredger. G. Zapf. 1,920,731; Aug. 1.
Driving box, Locomotive. H. S. Vincent. 1,920,772; Aug. 1.
Driving gear for printing presses. W. Rockstroh. 1,920,891; Aug. 1.
Driving mechanism for the wheels of divided swinging axles of motor vehicles or the like. Z. Hollos. 1,920,175; Aug. 1.
Dumper, Car. E. W. Kaltenbach. 1,920,402; Aug. 1.
Dye compounds and producing same. A. H. Schmidt. 1,920,324; Aug. 1.

Dyeing preparation and its conversion to dyestuffs, New. A. Zitscher, W. Seidenfaden, and K. Jellinek. 1,920,542; Aug. 1.
Dyestuff preparation, Vat and sulphur. H. Berthold and H. Friedrich. 1,920,166; Aug. 1.
Dyestuff, Yellow azo. W. Scheurer, R. Krech, and A. Koch. 1,920,407; Aug. 1.
Dyestuffs, Manufacture of basic. M. Wyler. 1,920,829; Aug. 1.
Dyestuffs of the pyrazolanthrone series and making them, Vat. P. Nawiasky and A. Krause. 1,920,426; Aug. 1.
Dynamo-electric machine. T. G. Myers. 1,920,315; Aug. 1.
Educational appliance. C. W. Burger. 1,920,291; Aug. 1.
Electric cable. A. P. S. Bellis. 1,920,180; Aug. 1.
Electric distribution system. C. W. Stone. 1,920,814; Aug. 1.
Electric induction furnace. A. E. Greene. 1,920,380; Aug. 1.
Electric induction furnace. K. Schmidt. 1,920,325; Aug. 1.
Electric lamps and bulbs, Reclaiming. A. M. Butler and R. C. Lane. 1,920,528; Aug. 1.
Electric motor. D. B. Hoseason. 1,920,309; Aug. 1.
Electric switch. S. Ruppel. 1,920,894; Aug. 1.
Electrical detection and separation of coins from substitutes. T. D. Bottome. 1,920,625; Aug. 1.
Electrical filter. G. B. Crouse. 1,920,948; Aug. 1.
Electrical generating and distribution system and apparatus therefor. W. S. Edsall. 1,920,683; Aug. 1.
Electrical instrument. C. A. Nickle. 1,920,764; Aug. 1.
Electrical regulator. A. G. Darling. 1,920,783; Aug. 1.
Electrically operated valve. W. and E. Juchheim. 1,920,925; Aug. 1.
Electrode for therapeutic arc lamps. C. E. Greider. 1,920,255; Aug. 1.
Electrode holder, Electric furnace. A. E. Greene. 1,920,378; Aug. 1.
Electrode mounting machine, Automatic. R. W. Conn. 1,920,630; Aug. 1.
Electron discharge device. C. M. Slack. 1,920,601; Aug. 1.
Electroresponsive device. H. Grünzhols. 1,920,745; Aug. 1.
Electroresponsive device. V. E. Verrall. 1,920,818; Aug. 1.
Electrothermic reduction process. A. E. Greene. 1,920,376; Aug. 1.
Elevator door operating system. C. E. Ellis, jr. 1,920,369; Aug. 1.
Elevator, Door type slip. F. J. Young, S. W. Long, and J. S. Morgan, jr. 1,920,617; Aug. 1.
Engine cooling system. C. A. Perkins. 1,920,883; Aug. 1.
Engine stopping means, Automatic. M. M. Hancock. 1,920,694; Aug. 1.
Excavating apparatus. L. E. MacFayden. 1,920,873; Aug. 1.
Exercising machine. A. F. Luzzi. 1,920,574; Aug. 1.
Eyelash curler. E. E. Kahn. 1,920,401; Aug. 1.
Fabric, Saturating. J. Zavertnik and A. A. MacCubbin. 1,920,541; Aug. 1.
Fan. E. L. Anderson. 1,920,543; Aug. 1.
Fastener: *See*—
Closure fastener. Corner fastener.
Fastener. P. E. Morrill and C. V. Brady. 1,920,518; Aug. 1.
Fastenings, Mechanism for supplying. B. Jorgensen. 1,920,260; Aug. 1.
Fatty acids, Production of. C. Beck and H. Diekmann. 1,920,344; Aug. 1.
Feeding mechanism for machine tools. W. H. Wood. 1,920,228; Aug. 1.
Fermentations and similar biochemical reactions by means of bacteria, Carrying out. S. Bakonyi. 1,920,736; Aug. 1.
Ferrule for cable ends and forming same. W. H. Nourse. 1,920,927; Aug. 1.
Fiber sheets and apparatus therefor, Manufacture of. D. M. Sutherland, jr. 1,920,481; Aug. 1.
Fifth wheel construction. H. W. Helms. 1,920,390; Aug. 1.
Filament treating. V. Beplate. 1,920,737; Aug. 1.
Film driving apparatus. C. L. Heisler. 1,920,789; Aug. 1.
Film forming element. H. E. Van Derhoef. Re18,908; Aug. 1.
Fire box construction. M. P. Van Woert. 1,920,817; Aug. 1.
Fish bait, Artificial. H. F. Khoenle. 1,920,935; Aug. 1.
Fish dressing machine. R. Baader. 1,920,339; Aug. 1.
Fish lure, Revolving. A. H. Burckhardt. 1,920,676; Aug. 1.
Fixed condenser. O. Blake and H. Beyer. 1,920,346; Aug. 1.
Flash light. B. F. Muldoon and J. E. Johnson. 1,920,314; Aug. 1.
Flask, Heat. R. S. Ferguson. 1,920,853; Aug. 1.
Flexible metallic coupling. C. W. McGuirk. Re18,906; Aug. 1.
Flier construction. M. J. McHale. 1,920,414; Aug. 1.
Floating pump unit. J. C. Franke. 1,920,371; Aug. 1.
Fluid fuel burner. R. F. Bruns. 1,920,460; Aug. 1.
Fluid motor. C. E. Wilkins and A. W. Rafferty. 1,920,285; Aug. 1.
Fluid pressure regulator. F. Kissing and A. Maas. 1,920,752; Aug. 1.
Fluid pressure tool, Valve controlled. G. M. Nell. 1,920,763; Aug. 1.
Fog penetrating apparatus. C. Biemat. 1,920,845; Aug. 1.
Folding table. F. Malinowski. 1,920,577; Aug. 1.
Force feed lubricator. E. L. Kaegebein. 1,920,566; Aug. 1.
Forceps, Distraction bone. J. J. S. Wassenaar. 1,920,821; Aug. 1.
Frame: *See*—
Hosiery frame.
Frame for cigarette packages. A. Jacobsen. 1,920,864; Aug. 1.
Freewheeling device. C. F. Pilcher. 1,920,712; Aug. 1.
Frequency multiplier. F. Gerth. 1,920,194; Aug. 1.
Fruits and vegetables, Coloring. J. R. Winston, R. C. Wright and J. F. Wootten. 1,920,540; Aug. 1.
Fuel controller, Fluid. C. D. Stewart. 1,920,440; Aug. 1.
Fuel, Motor. L. Rosenstein and W. J. Hund. 1,920,766; Aug. 1.
Fuel regulator for internal combustion engines, Automatic. C. L. Stokes. 1,920,487; Aug. 1.
Fuel vapor burner, Liquid. C. A. Hoff. 1,920,933; Aug. 1.
Furnace: *See*—
Electric induction furnace. Regenerative furnace.
Furnace grate stoker control. W. A. Lacke. 1,920,572; Aug. 1.
Furnaces and the like, Checker chamber for regenerative. L. T. Petit. 1,920,885; Aug. 1.
Gaff. L. W. Hendrie. 1,920,790; Aug. 1.
Gas and liquid contact apparatus. J. Becker. 1,920,623; Aug. 1.
Gas manufacture. C. J. Ramsburg. 1,920,951; Aug. 1.
Gas manufacture apparatus. J. Becker. 1,920,622; Aug. 1.
Gas purifying material, Revivifying fouled. F. W. Sperr, jr. 1,920,603; Aug. 1.
Gas reactions at high temperatures, Contrivance for carrying out. J. Daniels. 1,920,632; Aug. 1.
Gases by contact with a liquid, Method and device for cooling. H. F. de Saugy. 1,920,682; Aug. 1.
Gases rich in methane into more valuable products, Converting. H. Harter. 1,920,858; Aug. 1.
Gaseous mixtures, Separation and purification of. G. A. Bragg. 1,920,626; Aug. 1.
Gasket-attaching means. F. W. Dearborn. 1,920,635; Aug. 1.
Gasoline and other hydrocarbon liquids from natural gas, Recovering. W. G. Laird. 1,920,941; Aug. 1.
Gate for both ways of flow in substantially horizontal sluices, Adjustable. A. Huguenin. 1,920,698; Aug. 1.
Gear: *See*—
Driving gear. Electrical switch gear.
Germicide, fungicide, etc., and using the same. M. S. Kharasch. 1,920,311; Aug. 1.
Glare screen. W. G. Carr, jr. 1,920,185; Aug. 1.
Glass and making it, Laminated. J. C. Zola. 1,920,619; Aug. 1.
Glass, Bent-window. H. A. Tidemann. Des. 90,429; Aug. 1.
Glass charges to shallow molds, Delivering molten. K. E. Peiler. 1,920,593; Aug. 1.
Glass drawing tank. H. L. Halbach. 1,920,692; Aug. 1.
Glass, Fastening. S. Umegaki and H. Hisamatsu. 1,920,722; Aug. 1.
Glass for covering walls and ceilings, Structural. W. D. Hadley. 1,920,503; Aug. 1.
Glass, Manufacture of drawn. J. A. De Silva. 1,920,366; Aug. 1.
Glass, Method and apparatus for drawing. W. J. Woods. 1,920,336; Aug. 1.
Glass sheets, Process and apparatus for separating. H. S. Heichert. 1,920,641; Aug. 1.
Golf bag. G. H. Hiles. 1,920,308; Aug. 1.
Golf bags, Supporting device for. T. W. Murphy, J. C. Otis, and W. G. Waddel. 1,920,581; Aug. 1.
Golf-scorer, Watch-shaped. G. Jeanneret. 1,920,394; Aug. 1.
Grading and evening machine. L. A. Cogswell. 1,920,842; Aug. 1.
Grading material, Apparatus for. D. D. Dunkin. 1,920,190; Aug. 1.
Granule and producing same. S. F. Walton. 1,920,773; Aug. 1.
Grinding machine or the like. W. L. Bryant. 1,920,290; Aug. 1.
Guard for door and window openings, Collapsible grillage. E. Melaun. 1,920,416; Aug. 1.
Guide for correct grinding of twist drills. W. B. Ward. 1,920,537; Aug. 1.
Gun, Trap. P. B. Hass. 1,920,695; Aug. 1.
Hair cloth holder. W. L. Sullivan. 1,920,899; Aug. 1.
Hair waver or curler. H. C. and M. A. Fraser. 1,920,690; Aug. 1.
Hair waving pad. E. G. McDonough. 1,920,758–9; Aug. 1.
Hand bag. S. Miller. 1,920,802; Aug. 1.
Handle for vessels containing hot liquids. F. F. Towns. 1,920,330; Aug. 1.

Hanger: *See*—
Bathtub hanger. Sash hanger.
Harness connection for looms. H. Lussier. 1,920,412; Aug. 1.
Hasp fastening for suit and attaché cases and the like. C. W. Cheney. 1,920,356; Aug. 1.
Hat finishing machine. J. H. Johnson. 1,920,644; Aug. 1.
Hauling and lifting apparatus. S. Faure. 1,920,686; Aug. 1.
Headlight, Dirigible. J. C. Schulmayer. 1,920,527; Aug. 1.
Headwear, Knitted. D. Karger. 1,920,200; Aug. 1.
Heat exchange apparatus. R. Mautsch. 1,920,313; Aug. 1.
Heat exchange containers and batteries thereof. J. E. Marsden. 1,920,515; Aug. 1.
Heat exchange device. C. E. Clark. 1,920,857; Aug. 1.
Heat exchanger. J. W. McCausland. 1,920,800; Aug. 1.
Heat insulating means for use in producing metallic castings. E. Gathmann. 1,920,854; Aug. 1.
Heater: *See*—
Permanent wave heater. Electric water heater.
Heating device. L. V. Lucia. 1,920,871; Aug. 1.
Heating system. H. F. Carter. 1,920,186; Aug. 1.
Heating system. D. H. Keck. 1,920,567; Aug. 1.
Heating system for internal combustion engines. C. P. Randolph. 1,920,805; Aug. 1.
Heel attachment device for shoes. O. Brockman. 1,920,170; Aug. 1.
Heel-lifts and rands, Apparatus for assembling. J. B. Hadaway. 1,920,256; Aug. 1.
Hemstitch and embroidery seam. A. H. De Voe. 1,920,784; Aug. 1.
Hides, skins, and leather, Machine for operating upon. H. A. Ballard. 1,920,841; Aug. 1.
High pressure boiler. W. R. Wood. 1,920,776; Aug. 1.
Hinge: *See*—
Cigar box hinge.
Hinge. H. B. Haskins and J. W. Lakin. 1,920,466; Aug. 1.
Hinge. A. E. Jones and H. H. Lewis. 1,920,509; Aug. 1.
Hitching device for tractors. C. A. Odegard. 1,920,878; Aug. 1.
Holder: *See*—
Bust-holder. Hook and bait holder.
Electrode holder. Ring holder.
Hair cloth holder.
Hollow rivet setting tool. E. P. Dean. 1,920,362; Aug. 1.
Honer, Safety razor blade. C. Wolf. 1,920,491; Aug. 1.
Hook and bait holder. F. E. Norton. 1,920,478; Aug. 1.
Horn, Sound amplifying. S. Coumbopoulos. 1,920,631; Aug. 1.
Hose connecter for vacuum cleaners. G. W. Allen. 1,920,621; Aug. 1.
Hosiery frame, Flat. C. Scheller. 1,920,597; Aug. 1.
Hosiery, Self-supporting. W. L. Thompson. 1,920,943; Aug. 1.
Hydraulic actuating and control valve means. R. A. Schafer. 1,920,596; Aug. 1.
Hydrocarbon oils into lower boiling hydrocarbon oils, Conversion of high-boiling. W. E. Warwick. 1,920,331; Aug. 1.
Hydrocarbon oils, Refining and purification of. J. C. Morrell. 1,920,270; Aug. 1.
Hydrocarbons, Apparatus for treating. W. M. Cross. 1,920,930; Aug. 1.
Hygrostatic control. W. C. Goss. 1,920,502; Aug. 1.
Ice cream mixer. E. L. Steward. 1,920,605; Aug. 1.
Ice forming device. H. B. Rudd. 1,920,526; Aug. 1.
Illuminated sign, Animated. G. A. Wing. 1,920,826; Aug. 1.
Indicator: *See*—
Time indicator.
Indicator. C. W. Hansell. 1,920,304; Aug. 1.
Inking mechanism. S. J. Mollet. 1,920,424; Aug 1.
Insulating concrete. H. N. Clark. 1,920,358; Aug. 1.
Insulating or wall board product. C. E. Carpenter. 1,920,496; Aug. 1.
Insulator, Vibration. A. L. Riker. 1,920,436; Aug. 1.
Iron or steel and making or treating same. J. R. C. Marsh. 1,920,909; Aug. 1.
Iron, Producing and melting sponge. A. E. Greene. 1,920,879; Aug. 1.
Jack: *See*—
Automatic vehicle jack.
Jewelry. H. L. Miskend. 1,920,875; Aug. 1.
Joint: *See*—
Pipe joint. Steel hose joint.
Kiln lining. R. W. Burke. 1,920,677; Aug 1.
Knickers, Outer. H. C. D'Annunzio. 1,920,634; Aug. 1.
Knitting machine, Full-fashioned. E. Richter. 1,920,435; Aug. 1.
Knitting machines, Variable splicing means for. F. R. Page. 1,920,879; Aug. 1.
Ladder step, Detachable safety. C. M. Dollerhide. 1,920,552; Aug. 1.
Latch: *See*—
Luggage latch.
Latch operating means. N. R. Kirk. 1,920,868; Aug. 1.
Lathe and method of turning round bodies. C. H. Norton. 1,920,209; Aug. 1.
Lathes and other machines, Mounting electrically actuated mechanisms for driving. O. Cullman. 1,920,498; Aug. 1.
Laundry flat piece spreader and carrier. L. R. Sager. 1,920,715; Aug. 1.
Lead, Refining of. C. T. Patterson. 1,920,211; Aug. 1.
Level, Spirit. P. H. Rogers. 1,920,892; Aug 1.
Light: *See*—
Flash light.
Life saving device for submarines. H. F. Good. 1,920,301; Aug. 1.
Lime slaking apparatus. E. E. Harper. 1,920,905; Aug. 1.
Lining for cracking apparatus, Corrosion resistant. G. V. Swearingen and E. S. Dixon. 1,920,534; Aug. 1.
Liquid products from solid distillable carbonaceous materials by destructive hydrogenation, Production of valuable. M. Pier. 1,920,887; Aug. 1.
Liquids containing tar acids, Treatment of. F. W. Sperr, jr., and J. A. Shaw. 1,920,604; Aug. 1.
Liquids, Separation of immiscible. L. D. Jones. 1,920,468; Aug. 1.
Loading vehicle. L. Casper. 1,920,243; Aug. 1.
Lock: *See*—
Nut lock. Receptacle lock.
Lock for window sashes and doors. J. A. Riccelli. 1,920,669; Aug. 1.
Lock mechanism. W. S. Diehl. 1,920,848; Aug. 1.
Locking device. L. P. Patterson. 1,920,521; Aug. 1.
Locking mechanism for trunks, Drawer. F. W. Meyer. 1,920,654; Aug. 1.
Locomotive. B. F. Harrison. 1,920,305; Aug. 1.
Locomotive. C. A. Siegel and J. P. Neff. 1,920,812; Aug. 1.
Locomotive tender construction. W. L. Lents and W. M. Sheehan. 1,920,754; Aug. 1.
Logs, Sawing of. K. E. R. Österberg. 1,920,584; Aug. 1.
Loop receiver, Symmetrical. H. O. Peterson. 1,920,665; Aug. 1.
Loud speaker, Dynamic. H. J. Fanger. 1,920,299; Aug. 1.
Lubricator: *See*—
Force feed lubricator.
Lubricating means. F. Roller. 1,920,714; Aug. 1.
Lubricating means for pumps. E. E. Greve. 1,920,381; Aug. 1.
Lubricating system, Tractor. R. H. White. 1,920,225; Aug. 1.
Luggage latch. J. Dorst and H. F. Weltz. 1,920,189; Aug. 1.
Machine for affixing frames to bags or purses. S. Cardinale. 1,920,780; Aug. 1.
Machine for applying friction covers to containers. A. L. Kronquest. 1,920,869; Aug. 1.
Machine for finishing bolts and screws. H. D. Simkins and O. P. De Loe. 1,920,600; Aug. 1.
Machine for laying off Surface contours to scale. C. B. Dannenberg and H. Whittaker. 1,920,633; Aug. 1.
Machine for making articles from molten material. F. H. Lobb. 1,920,906; Aug. 1.
Machine for making patterned hosiery, Automatic. A. E. Page. 1,920,427; Aug. 1.
Machine for placing plastic materials. C. G. Milburn. 1,920,443; Aug. 1.
Machine tool carriage control. C. C. Stevens. 1,920,532; Aug. 1.
Malt extract, Manufacture of. L. H. Clark. 1,920,461; Aug. 1.
Manually operated press. P. J. Kearney. 1,920,750; Aug. 1.
Marker, Traffic. G. D. Myers. 1,920,582; Aug. 1.
Marking machine. P. A. Wooster. 1,920,337; Aug. 1.
Material, Apparatus for handling. E. W. Larsen. 1,920,203; Aug. 1.
Material, Apparatus for moving. F. L. Walker. 1,920,613; Aug. 1.
Material for preparing metal for painting. A. Douty. 1,920,744; Aug. 1.
Material for wrapping or covering articles. N. J. Strauss. 1,920,533; Aug. 1.
Material reducing machine, Rotary. J. T. Fowler. 1,920,945–6–7; Aug. 1.
Matrix-setting and type line-casting machines, Mold for. E. Uhthoff. 1,920,448; Aug. 1.
Measured values to a distant point, Device for transmitting. H. Hausrath. 1,920,788; Aug. 1.
Measuring mechanism. R. S. A. Daugherty. 1,920,294; Aug. 1.
Merchandise, Loading and transporting. L. J. Scales. 1,920,917; Aug. 1.
Metal coffee receptacle. S. M. Moriya. 1,920,268; Aug. 1.
Metal die. R. T. Hurley. 1,920,699; Aug. 1.
Metal type tubes, Forming. F. H. Poeppelmeier. 1,920,275; Aug. 1.
Metal working machine. C. C. Grotnes. 1,920,802; Aug. 1.
Metals, Producing formates of alkaline earth. E. Elöd and M. Enderli. 1,920,851; Aug. 1.
Metals, Refining ferrous. H. Harris. 1,920,465; Aug. 1.
Metallic surfaces from corrosion, Protection of. S. O. Cowper-Coles. 1,920,678; Aug. 1.
Meter: *See*—
Recording meter.
Mining machine. C. F. Osgood. 1,920,271; Aug. 1.
Mining machine. F. W. Vodoz. 1,920,450; Aug. 1.

Mixer: *See*—
Ice cream mixer.
Mixtures of water with oil, Separation of. L. D. Jones. 1,920,565; Aug. 1.
Moccasin. F. J. Grams. 1,920,554; Aug. 1.
Mono-vinylacetylene, Hydrogenation of. W. S. Calcott, A. S. Carter and F. B. Downing. 1,920,242; Aug. 1.
Mop. M. L. Cass. 1,920,355; Aug. 1.
Mop connecter. H. L. Bradley. 1,920,351; Aug. 1.
Motor: *See*—
Electric motor. Fluid motor.
Motor assembly, Outboard. L. J. and H. L. Johnson. 1,920,923; Aug. 1.
Mount, Abrasive wheel. T. Larsson. 1,920,204; Aug. 1.
Mounting engine. L. H. Thoen. 1,920,444; Aug. 1.
Mounting wheels on hubs, Device for. P. M. Bourdon. 1,920,350; Aug. 1.
Mouth cleansing device. H. Andvig. 1,920,165; Aug. 1.
Musical instruments, Shoulder rest for stringed. E. C. Ebert. 1,920,850; Aug. 1.
Naphthalene-1.4.5.8-tetracarboxylic acid, Preparing derivatives of. G. Kränzlein and H. Vollmann. 1,920,406; Aug. 1.
Neon tube sign. D. Grbovic. 1,920,555; Aug. 1.
Neutral-impedance device. S. B. Griscom and R. D. Evans. 1,920,382; Aug. 1.
Nitrogen containing cases, Producing. J. J. Egan. 1,920,368; Aug. 1.
Nitrosylchloride, Production of. C. W. Whittaker and F. O. Lundstrom. 1,920,333; Aug. 1.
Nozzle. J. F. Cranford. 1,920,245; Aug. 1.
Nozzle, Hose. M. Chouinard and J. P. Paradis. 1,920,840; Aug. 1.
Nozzle, Refrigerated burner. A. R. Stevenson, jr. 1,920,769; Aug. 1.
Nozzle, Spraying. N. W. Meloon. 1,920,874; Aug. 1.
Nozzle, Teeming. A. J. Gesel and W. M. Murray. 1,920,300; Aug. 1.
Numbering attachment for printing machines. W. R. Allen. 1,920,232; Aug. 1.
Nut cracker. C. Swensen. Des. 90,428; Aug. 1.
Nut, Eye. T. B. Bash. 1,920,493; Aug. 1.
Nut lock. J. R. Hotchkin. 1,920,792; Aug. 1.
Oil burner. W. Tryon. 1,920,446; Aug. 1.
Oil changing indicator. R. Curry. 1,920,844; Aug. 1.
Oil emulsion, Mineral. H. Noonan. 1,920,926; Aug. 1.
Oil fields, Development of. H. L. Doherty. 1,920,637; Aug. 1.
Oil filling device for crank cases. H. C. Snow. 1,920,530; Aug. 1.
Oils, Dewaxing and refining. H. N. Lyons. 1,920,922; Aug. 1.
Oils, Distillation of crude. F. Tinker. 1,920,815; Aug. 1.
Oils, Treatment of hydrocarbon. R. B. Day. 1,920,247; Oleaginous solution of mercury compounds and preparing the same. G. W. Raizlss. 1,920,523; Aug. 1.
Operating member or stick for hot line equipment. H. W. Bodendieck. 1,920,168; Aug. 1.
Optical pyrometer. E. Cook and E. L. Anderson. 1,920,293; Aug. 1.
Optical testing apparatus. H. G. Pank. 1,920,428; Aug. 1.
Organic compounds containing oxygen, Synthesizing. H. A. Gosselin. 1,920,373; Aug. 1.
Organic compounds, Purification of. A. O. Jaeger. 1,920,796; Aug. 1.
Outlet box. G. P. Schwabacher. 1,920,811; Aug. 1.
Outlet-fitting for air gauges, Self-closing. P. C. Swole. 1,920,441; Aug. 1.
Oven apparatus, Coke. F. J. Pfluke and L. B. Bowman. 1,920,913; Aug. 1.
Overload protection means for piezo-electric crystals. F. Michelssen. 1,920,655; Aug. 1.
Oxide free metal containing no voids, Preparing. F. H. Driggs. 1,920,638; Aug. 1.
Package, Display. G. E. Gary. 1,920,193; Aug. 1.
Package sealing method and apparatus. W. P. White. 1,920,539; Aug. 1.
Packing machinery. W. E. Molins. 1,920,707; Aug. 1.
Packing unit. E. A. Murphy. 1,920,269; Aug. 1.
Pad: *See*—
Hair waving pad.
Padlock, Combination. A. Diaz. 1,920,250; Aug. 1.
Padlock, Combination. F. Toscano. 1,920,489; Aug. 1.
Pads for sock holders. Machine for making. J. Goldschmidt. 1,920,902; Aug. 1.
Palette. C. D. Jarrett. 1,920,467; Aug. 1.
Paper bag. R. W. Jaite. 1,920,700; Aug. 1.
Paper bag. J. A. Rosmait. 1,920,322; Aug. 1.
Paper bag and closure therefor. J. A. Rosmait. 1,920,320–1; Aug. 1.
Paper container. M. H. Sidebotham. 1,920,529; Aug. 1.
Paper cutting machine. K. Stegmann. 1,920,718; Aug. 1.
Paper manufacture. H. R. Rafton. 1,920,942; Aug. 1.
Papers, Manufacture of coated. F. W. Bailey, F. W. Crundall, and H. Spence. 1,920,340; Aug. 1.
Papier-mâché article. A. C. Fulton. 1,920,372; Aug. 1.
Pencil and finishing same. W. Daneke. 1,920,361; Aug. 1.
Pencil ferrule. A. L. Davis. 1,920,680; Aug. 1.
Pencil, Mechanical. I. D. Tefft and K. S. Parker. 1,920,770; Aug. 1.
Percussion tool. L. Rasch. 1,920,765; Aug. 1.
Perforating die. C. E. Hardenbrook, jr. 1,920,258; Aug. 1.
Periodic switch. A. C. Wright. 1,920,229; Aug. 1.
Periscope attachment for cash registers. A. D. Maury and J. A. Fitz Gerald. 1,920,473; Aug. 1.
Permanent wave heater. S. Sommer. 1,920,531; Aug. 1.
Petroleum hydrocarbons, Cracking. W. M. Cross. 1,920,929; Aug. 1.
Phonograph. W. E. Miller and W. J. Sheubrooks. 1,920,936; Aug. 1.
Phonograph, Automatic record changing. J. A. Darwin. 1,920,360; Aug. 1.
Photo-composing machine. H. C. Jones. 1,920,399; Aug. 1.
Photographic printing machine. A. W. Jacobi. 1,920,561; Aug. 1.
Physical conditions, Method of and apparatus for regulating or governing. G. Wünsch. 1,920,827; Aug. 1.
Pictures, Apparatus for making medley. J. W. Anderson. 1,920,671; Aug. 1.
Pipe and tubing, Apparatus for producing electrically welded. W. Sykes. 1,920,900; Aug. 1.
Pipe coupling. F. N. Bard. 1,920,545; Aug. 1.
Pipe coupling. J. H. Lamont. 1,920,512; Aug. 1.
Pipe joint. H. A. Unke. 1,920,449; Aug. 1.
Pipe wrapping machine. D. Finley. 1,920,901; Aug. 1.
Pipe wrapping machine. D. Finley. 1,920,932; Aug. 1.
Piston, packing, and the like. M. G. Kurth. 1,920,470; Aug. 1.
Pitch propeller, Variable. M. J. B. Barbarou. 1,920,674; Aug. 1.
Pointing device for stone carvers. C. Cattaneo. 1,920,830; Aug. 1.
Polisher, Floor. T. E. D. Bilde. 1,920,624; Aug. 1.
Polymerization products of vinyl halides, Producing. F. Klatte and H. Müller. 1,920,403; Aug. 1.
Pool level regulator, Gathering. R. F. Hatch. 1,920,747; Aug. 1.
Potato sorter. G. M. Jenkins. 1,920,701; Aug. 1.
Poultry feeder. W. F. Vahlkamp. 1,920,536; Aug. 1.
Power plant. R. J. Caughey. 1,920,781; Aug. 1.
Power plant. C. Föbl. 1,920,689; Aug. 1.
Power transmission unit. G. Bert'Odatto. 1,920,877; Aug. 1.
Power unit, Submersible. G. T. Pfleger. 1,920,318; Aug. 1.
Press: *See*—
Manually operated press.
Press. A. A. Byerlein. 1,920,547; Aug. 1.
Press unit drive. H. A. W. Wood. 1,920,616; Aug. 1.
Presser foot mechanism. P. R. Glass. 1,920,252; Aug. 1.
Pressure packed swing joint. D. A. Murphy and A. J. Hodge. 1,920,658; Aug. 1.
Pricometer. E. S. Griffith. 1,920,173; Aug. 1.
Printing apparatus. C. T. Pastor. 1,920,429; Aug. 1.
Printing machine. W. K. Miller. 1,920,419; Aug. 1.
Printing plates, Making fine line. J. Kornmann. 1,920,405; Aug. 1.
Prints, Making registered. H. C. Jones. 1,920,400; Aug. 1.
Projector, Microscopic. E. W. Bossing. 1,920,183; Aug. 1.
Propeller blade, Heating, hardening, and tempering of hollow steel. J. H. McKee. 1,920,652; Aug. 1.
Propeller blades, Making. H. N. Wylie. 1,920,830; Aug. 1.
Propeller construction. E. L. Parker. 1,920,880; Aug. 1.
Protective system. A. B. Chapman and A. H. Vadnais. 1,920,742; Aug. 1.
Protective system and radiant energy apparatus. W. F. Hemler. 1,920,861; Aug. 1.
Pulp beating engine. E. Héry. 1,920,392; Aug. 1.
Pulp molding machine. M. P. Chaplin. 1,920,292; Aug. 1.
Pump: *See*—
Rotary pump.
Pump mechanism. S. Dean. 1,920,363; Aug. 1.
Pyrotechnic composition for producing yellow smoke. G. U. Graff. 1,920,254; Aug. 1.
Radiant energy, Amplification of. M. S. Hopkins, jr. 1,920,863; Aug. 1.
Radiator. I. T. Bennett and F. C. Reynolds. 1,920,779; Aug. 1.
Radiator. H. Del Mar. 1,920,365; Aug. 1.
Radiator construction. H. Jaffe. 1,920,562; Aug. 1.
Radiator valve. W. B. Mackintosh. 1,920,757; Aug. 1.
Radiator valve. P. F. Shivers. 1,920,896; Aug. 1.
Radio and phonographic recording and reproducing system, Combined. J. B. Browning. 1,920,628; Aug. 1.
Radiocabinet. C. Bol. 1,920,741; Aug. 1.
Radio system, Centralized. J. L. Whittaker. 1,920,775; Aug. 1.
Radiotube base pin locating device. H. Palm. 1,920,662; Aug. 1.
Rand forming machine. F. Ashworth. 1,920,235; Aug. 1.
Razor blade sharpener. H. Blau. 1,920,347; Aug. 1.
Razor, Safety. M. Pellizzola. 1,920,711; Aug. 1.
Receptacle: *See*—
Metal coffee receptacle.
Receptacle closure. T. C. Andersen. 1,920,672; Aug. 1.
Receptacle lock. E. W. Storms. 1,920,813; Aug. 1.
Reciprocating mechanism. T. Pesci. 1,920,591; Aug. 1.
Recorder: *See*—
Signal recorder.
Recording meter. A. F. Poole. 1,920,479; Aug. 1.
Recording speed indicator. E. W. Lyen. 1,920,514; Aug. 1.
Rectifier, High amperage. E. A. Lederer. 1,920,649; Aug. 1.

Rectifier with hollow cathodes, Glow discharge. J. Nienhold. 1,920,660; Aug. 1.
Reel: *See*—
Cable reel.
Reel. H. Blount and E. J. Larsen. 1,920,181; Aug. 1.
Reel for films and other flexible material. K. Morsbach. 1,920,657; Aug. 1.
Refrigerating apparatus. C. F. Henney and D. L. Kaufman. 1,920,505; Aug. 1.
Refrigerating apparatus. H. B. Hull. 1,920,508; Aug. 1.
Refrigerating appa atus, Carbonated beverage. W. E. Doughty. 1,920,462; Aug. 1.
Refrigerating evaporator, Distributive. B. F. Kubaugh. 1,920,570; Aug. 1.
Refrigerating machine. A. Baumann. 1,920,675; Aug. 1.
Refrigerating system. C. Dantsizen. 1,920,845; Aug. 1.
Refrigeration. B. C. von Platen and C. G. Munters. 1,920,612; Aug. 1.
Refrigerators, Vessel and track construction for. A. C. Crimmel. 1,920,359; Aug. 1.
Regenerative furnace. M. H. McEwan. 1,920,872; Aug. 1.
Regulator: *See*—
Pool level regulator.
Regulating system, Automatic. J. H. Ashbaugh and R. A. Geiselman. 1,920,544; Aug. 1.
Regulation, Method and system of. A. M. Rossman. 1,920,323; Aug. 1.
Relay for tube transmitters, Protective. F. H. Kroger. 1,920,646; Aug. 1.
Relaying equipment, High-speed. L. S. C. Tippett. 1,920,329; Aug. 1.
Rheostat. N. C. Schellenger. 1,920,217; Aug. 1.
Rigging, Railway draft. J. F. O'Connor. 1,920,316; Aug. 1.
Ring balance. P. Rheinländer. 1,920,594; Aug. 1.
Ring cup for fictile pipes. G. R. Payne. 1,920,589; Aug. 1.
Ring holder. C. E. Harding. 1,920,386; Aug. 1.
Rock-boring machine. L. Hammer. 1,920,964; Aug. 1.
Roller: *See*—
Shade roller.
Roofing material. D. Finley. 1,920,931; Aug. 1.
Rotary pump. O. Siemen and J. Hinsch. 1,920,484; Aug. 1.
Rotary valve. W. L. Gorden. 1,920,924; Aug. 1.
Rotating mechanism. L. L. Weaver. 1,920,224; Aug. 1.
Rubber substitutes and products derived therefrom, Manufacture of. M. Faldini. 1,920,298; Aug. 1.
Rubber to tires, Applying retread. W. B. Thurman and H. J. Woock. 1,920,720; Aug. 1.
Sadiron, Safety. T. L. Reed. 1,920,668; Aug. 1.
Safety switch. S. S. Prince. 1,920,713; Aug. 1.
Salts, Dehydrating, without decomposition, hydrated. H. S. Booth and G. G. Torrey. 1,920,280; Aug. 1.
Salts, Producing and treating sulphocyanate. E. Hene. 1,920,557; Aug. 1.
Salts, Purification of solutions of zinc. U. C. Tainton. 1,920,442; Aug. 1.
Sash hanger. A. C. Soule. 1,920,808; Aug. 1.
Saw attachment for tractors. A. O. Hillan. 1,920,696; Aug.
Scale. M. J. Weber. 1,920,332; Aug. 1.
Screen: *See*—
Glare screen.
Screen, Making woven wire. H. E. Brown and J. Boehm. 1,920,495; Aug. 1.
Seal for electrolytic condensers. J. E. Lilienfeld. 1,920,799; Aug. 1.
Seam detector, Selective. C. G. Richardson. 1,920,916; Aug. 1.
Seam finishing machine. P. R. Glass. 1,920,253; Aug. 1.
Selective reduction. A. E. Greene. 1,920,377; Aug. 1.
Separating and isolating the active substances of the posterior lobe of the hypophysis. M. Bockmühl, F. Lindner, and O. Schaumann. 1,920,349; Aug. 1.
Separating device. D. A. Siliers. 1,920,437; Aug. 1.
Sewing machine. O. F. Hoppe. 1,920,643; Aug. 1.
Sewing machine. R. F. List and W. A. Smith. 1,920,471–2; Aug. 1.
Sewing machines, Thread-cutting mechanisms for. A. R. Wood. 1,920,944; Aug. 1.
Shade roller. W. Dasley. 1,920,937; Aug. 1.
Shank for shoes, Fabric envelope covered metal. H. H. Roosa. 1,920,670; Aug. 1.
Shank piece and making shoes. J. B. Hadaway. 1,920,383; Aug. 1.
Sharpening device for safety razor blades. W. R. Daughtry. 1,920,847; Aug. 1.
Shearing mechanism. E. M. Hawkins and O. M. Hoch. 1,920,389; Aug. 1.
Sheet bulletin board, Changeable. J. B. D'Ippolito. Des. 90,402; Aug. 1.
Sheet-feeder. C. W. Harrold. 1,920,388; Aug. 1.
Sheet feeding mechanism. E. F. Dudley. 1,920,295; Aug. 1.
Shelf, Rolling. F. J. Powell. 1,920,666; Aug. 1.
Shingle. A. F. Martin. 1,920,474; Aug. 1.
Shock absorber. G. A. Gillen. 1,920,251; Aug. 1.
Shock absorber. R. F. Peo. 1,920,272–3; Aug. 1.
Shock absorber. A. B. Shultz. 1,920,218; Aug. 1.
Shoe. C. Miller. Des. 90,411–12; Aug. 1.
Shoe. C. F. Reith. Des. 90,417; Aug. 1.
Shoe and making the same. F. L. Ayers. 1,920,338; Aug. 1.
Shoe binding. S. M. Kessler. 1,920,751; Aug. 1.
Shoe filler. A. Thoma. 1,920,771; Aug. 1.
Shoe-shine box. H. H. Gerstner. 1,920,171; Aug. 1.
Shoe stiffener parts and the like, Apparatus for conditioning. S. P. Lovell. 1,920,411; Aug. 1.
Shoe support. J. F. Standish. 1,920,281; Aug. 1.
Shoring device. F. A. Poole. 1,920,433; Aug. 1.
Shredding machine, Nut. E. B. Knowles and J. J. Parnell. 1,920,404; Aug. 1.
Sign: *See*—
Neon tube sign.
Signal distortion indicating device. A. Weaver. 1,920,454; Aug. 1.
Signal recorder. C. E. Beach and F. E. Weld. 1,920,237; Aug. 1.
Signal system, Police. F. F. C. Bauer. 1,920,236; Aug. 1.
Signaling apparatus, Short wave. J. O. Watkins. 1,920,223; Aug. 1.
Signaling device. R. G. Jewell. 1,920,310; Aug. 1.
Silica compounds and making the same, Therapeutic. R. Zellmann. 1,920,492; Aug. 1.
Silo blocks, Coating concrete. W. O. Brassert. 1,920,627; Aug. 1.
Siphon breaker for oil burning systems. H. E. Lake. 1,920,647; Aug. 1.
Slag, Cellular. R. Weigel and P. W. Bachman. 1,920,728; Aug. 1.
Slasher hood. C. Lancaster. 1,920,870; Aug. 1.
Sled. W. E. Pidder. 1,920,866; Aug. 1.
Slide loop. J. M. Clark. 1,920,549; Aug. 1.
Sockets, Luminescent the terminal connections. F. L. Nelson. 1,920,710; Aug. 1.
Solvent extraction and method thereof, Apparatus for continuous. W. E. Flumerfelt. 1,920,499; Aug. 1.
Sound reproducer, Automatic. J. N. Pepin. 1,920,430; Aug. 1.
Spinning centrifuge. W. Zur Löwen. 1,920,732; Aug. 1.
Spinning centrifuge. W. Zur Löwen. 1,920,733; Aug. 1.
Spinning frames and other machines, Apparatus for operating on. W. J. Smith. 1,920,768; Aug. 1.
Spool, Metallic. W. C. Mills. 1,920,421–2; Aug. 1.
Spool or reel, Metallic. W. C. Mills. 1,920,420. Aug. 1.
Spout, Carton. W. B. McLaughlin. 1,920,653; Aug. 1.
Sprayer construction. N. W. De Frees. 1,920,636; Aug. 1.
Spraying device. L. L. Tirrell. 1,920,721; Aug. 1.
Spring and spring cup maker and assembler. A. J. Lewis, J. W. Richardson, and C. J. Spill. 1,920,265; Aug. 1.
Spring assembling machine. L. H. Heuer. 1,920,862; Aug. 1.
Spring cushion. J. T. Atwood. 1,920,176; Aug. 1.
Spring shackle, Oil-less. R. Henry. 1,920,558; Aug. 1.
Spring suspension. R. T. Osman. 1,920,661; Aug. 1.
Spring suspension for individually sprung wheels. A. F. Masury. 1,920,206; Aug. 1.
Stairs, Conveyer. F. D. Barling. 1,920,457; Aug. 1.
Standard, Sign. A. J. Coon. Des. 90,399; Aug. 1.
Starter, Engine M. B. Jackson and K. M. Clipsham. 1,920,793–4; Aug. 1.
Starter for engines. J. A. Charter. 1,920,187; Aug. 1.
Starting means for a split phase motor. L. P. Hutt. 1,920,749; Aug. 1.
Starting system for internal combustion engines, Automatic. F. T. Christian. 1,920,782; Aug. 1.
Steam boiler. J. E. Black. 1,920,740; Aug. 1.
Steam generator for automotive vehicles. W. D. La Mont. 1,920,907; Aug. 1.
Steel and its manufacture, Alloy. J. R. C. Marsh. 1,920,910; Aug. 1.
Steel, Corrosion resisting. W. H. Keen. 1,920,934; Aug. 1.
Steel hose joint. E. Timbs. 1,920,610; Aug. 1.
Steering arrangement for motor cars. D. G. Mackenzie. 1,920,651; Aug. 1.
Steering mechanism. A. Rasmussen. 1,920,890; Aug. 1.
Steering mechanism, Motor controlled. J. O'Hare. 1,920,583; Aug. 1.
Stoker, Coal. A. Ousdahl. 1,920,912; Aug. 1.
Stoker, Locomotive. E. A. Turner. 1,920,535; Aug. 1.
Stoking mechanism, Locomotive. D. T. Williams. 1,920,334; Aug. 1.
Stone, Artificial. J. C. Edwards. 1,920,463; Aug. 1.
Stop motion for roving and spinning machines. W. J. Scott. 1,920,767; Aug. 1.
Storage battery ventilating plug. R. A. Lavender. 1,920,261; Aug. 1.
Stove wick and its composition. A. A. Halter. 1,920,384; Aug. 1.
Strand working apparatus. E. J. McIlvried. 1,920,207; Aug. 1.
Strap: *See*—
Tie strap.
Strap tightener. A. F. Bernard. 1,920,739; Aug. 1.
Stretcher, Curtain. J. Ladigo. 1,920,573; Aug. 1.
Subgrading machine. T. R. Regenhardt and C. Kassel. 1,920,319; Aug. 1.
Submarine propulsion. L. Y. Spear, H. E. Grieshaver, and E. Nibbs. 1,920,280; Aug. 1.
Sugar dispenser. T. C. Sewell. 1,920,895; Aug. 1.
Superheater. D. S. Jacobus. 1,920,198; Aug. 1.
Support: *See*—
Bearing support. Curtain support.
Box lid support. Shoe support.
Support for metal working machines, Traversing. H. E. Morton. 1,920,476; Aug. 1.

Supporter, Adjustable garment. H. Q. Moore. 1,920,876; Aug. 1.
Supporter, Athletic. C. K. Lane. 1,920,648; Aug. 1.
Supporting device. C. T. Siebs. 1,920,219; Aug. 1.
Surface machine. N. Degen. 1,920,364; Aug. 1.
Surfaces, Soldering together cylindrical. P. Hogan. 1,920,791; Aug. 1.
Surgical bandaging. E. Sander. 1,920,808; Aug. 1.
Swaged tip for mechanical pencil. W. H. Lindemon and M. G. Lammers. 1,920,400; Aug. 1.
Sweeper, Carpet. F. W. Pullen. 1,920,889; Aug. 1.
Swift for the winding of hanks of silk, cotton, or other yarns of different diameters, Extensible. A. Gubelmann. 1,920,556; Aug. 1.
Switch: *See*—
Electric switch. Safety switch.
Periodic switch. Time switch.
Switch gear, Electrical. H. J. H. Huber. 1,920,748; Aug. 1.
Switching mechanism. J. Wenk. 1,920,538; Aug. 1.
Table: *See*—
Folding table.
Tableware, Article of. M. J. McKenzie. 1,920,516; Aug. 1.
Tar, Distillation of, etc. S. P. Miller. 1,920,267; Aug. 1
Tar, Distillation of, etc. S. P. Miller. 1,920,801; Aug. 1.
Telegraphic intercommunicating system. E. F. Watson. 1,920,453; Aug. 1.
Telephone message recording and reproducing apparatus. E. M. Wilson. 1,920,729; Aug. 1.
Telephone system. E. S. Peterson. 1,920,213; Aug. 1.
Telephone system. A. B. Preuss. 1,920,214; Aug. 1.
Telephone system. J. Wicks and H. G. Evers. 1,920,226; Aug. 1.
Telephone system. E. O. Zwietusch. 1,920,230; Aug. 1.
Tender structure. W. L. Lentz and W. M. Sheehan. 1,920,755; Aug. 1.
Terminal voltage of sources of current, Device for keeping constant the. L. Koros. 1,920,569; Aug. 1.
Tester, Tube. W. N. Goodwin, jr. 1,920,906; Aug. 1.
Textile fabric. A. N. Harrison. Des. 90,407–8; Aug. 1.
Textile fabric. J. Persky. Des. 90,413–4; Aug. 1.
Textile fabric or similar article. M. Christen. Des. 90,395–6; Aug. 1.
Textile fabric or similar article. S. Cusson. Des. 90,401; Aug. 1.
Textile fabric or similar article. A. Grulich. Des. 90,406; Aug. 1.
Textile fabric or similar article. P. Reiman. Des. 90,416; Aug. 1.
Textile fabric or similar article. A. Rota. Des. 90,418; Aug. 1.
Textile fabric or similar article. L. Rubinger. Des. 90,419–23; Aug. 1.
Textile fabric or similar article. W. Speck. Des. 90,426; Aug. 1.
Textile fabric or similar article. H. L. Van Benthuysen. Des. 90,430; Aug. 1.
Textile fabric or the like. R. E. Fatherley. Des. 90,403–4; Aug. 1.
Textile fabric or the like. P. Reiman. Des. 90,415; Aug. 1.
Textile fabric or the like. E. E. Sherwin. Des. 90,424; Aug. 1.
Textile fibers and a process of sizing textile fibers, Agents for sizing. K. Josbum, A. Voss, H. Geier, and E. Dickhauser. 1,920,564; Aug. 1.
Thermoelectric element and thermocouple. O. Hermann. 1,920,559; Aug. 1.
Threads or filaments, Manufacturing artificial. B. W. Payne and R. P. Roberts. 1,920,212; Aug. 1.
Tie strap. O. Summers. 1,920,607; Aug. 1.
Time distribution system. C. Battegay. 1,920,179; Aug. 1.
Time indicator. L. C. Butts. 1,920,838; Aug. 1.
Time switch. B. Perrone and F. Santoro. 1,920,664; Aug. 1.
Timing device, Electric controlled. H. H. Fogwell and C. H. Judd. 1,920,688; Aug. 1.
Tinning long strips. A. P. Steckel. 1,920,439; Aug. 1.
Tire cover. H. R. Bird. 1,920,167; Aug. 1.
Tire retreading machine. N. Feinen. 1,920,852; Aug. 1.
Tobacco and tobacco goods, Preservation of the aroma of. G. Senftner. 1,920,483; Aug. 1.
Tobacco, Treating. A. J. Pacini. 1,920,588; Aug. 1.
Tool: *See*—
Fluid pressure tool. Percussive tool.
Hollow rivet setting tool.
Toy, Airplane. R. M. Guillow. 1,920,746; Aug. 1.
Toy balloons, Coloring. J. C. Gibson. Re18,910; Aug. 1.
Track clearing implement. E. B. Meyer. 1,920,475; Aug. 1.
Traction device. O. F. Hipkins. 1,920,506; Aug. 1.
Train pipe connecter, Automatic. J. Robinson. 1,920,278; Aug. 1.
Train pipe connecter head, Automatic. J. Robinson. 1,920,277; Aug. 1.
Transformer supporting means. L. J. Driggs. 1,920,849; Aug. 1.
Transmission. F. C. Mock. 1,920,579; Aug. 1.
Transmission testing apparatus. L. E. Adler. 1,920,456; Aug. 1.
Transmitting system. J. B. Coleman. 1,920,296; Aug. 1.
Tricalcium phosphate and aluminum phosphate composition salt filler. W. G. Warning and T. W. Schilb. Re18,907; Aug. 1.
Trimming machine. G. Goddu. 1,920,501; Aug. 1.
Trolley for conveyer systems. J. B. Webb. 1,920,774; Aug. 1.
Truck centering device, Railroad. J. G. Blunt. 1,920,348; Aug. 1.
Tubes, Cleaning boiler and condenser. G. B. Vroom. 1,920,283; Aug. 1.
Tubes from paper, cardboard and the like materials, Manufacture of. G. C. and J. S. Paton. 1,920,881; Aug. 1.
Typewriter. J. H. Barr. 1,920,777; Aug. 1.
Typographical composing machine. W. Ackerman and G. P. Kingsbury. 1,920,832; Aug. 1.
Vacuum sealing screw cap containers, Apparatus for. H. S. Brady. 1,920,240; Aug. 1.
Valve: *See*—
Control valve. Radiator valve.
Electrically operated valve Rotary valve.
Valve loading device. E. E. Hewitt. 1,920,938; Aug. 1.
Valve pin washer and ferrule maker and assembler. A. J. Lewis and J. W. Richardson. 1,920,264; Aug. 1.
Valve seating device. C. C. Farmer. 1,920,939; Aug. 1.
Valve to seat, Holding slide. C. C. Farmer. 1,920,940; Aug. 1.
Vapor electric discharge device. C. Kramer. 1,920,753; Aug. 1.
Vaporizer. C. F. Schuh. 1,920,599; Aug. 1.
Vat and coating therefor, Pickling. W. E. Smith. 1,920,486; Aug. 1.
Vault, Burial. H. Cohen. Des. 90,397–8; Aug. 1.
Vehicle for collecting containers. R. G. Palmer. 1,920,663; Aug. 1.
Vehicle for collection and hauling of garbage. J. W. Silver. 1,920,485; Aug. 1.
Vehicle, Motor. A. Moorhouse. 1,920,425; Aug. 1.
Vending machine casing. J. F. Meyer. Des. 90,410; Aug. 1.
Ventilator cap. D. Stainhofer. 1,920,918; Aug. 1.
Vertical oil bearing. R. W. Schuck and J. L. Brown. 1,920,326; Aug. 1.
Voltage regulating apparatus. C. H. Zierdt. 1,920,618; Aug. 1.
Wall construction. M. J. Tracy. 1,920,490; Aug. 1.
Water closet, Electric. J. C. Duner. 1,920,367; Aug. 1.
Water heater, Electric. W. L. Evans. 1,920,685; Aug. 1.
Water, Softening. O. Liebknecht. 1,920,756; Aug. 1.
Water softening apparatus. E. T. Turner. Re18,909; Aug. 1.
Wave translating system. H. S. Black. 1,920,238; Aug. 1.
Wave translating system. H. A. Pidgeon and J. O. McNally. 1,920,274; Aug. 1.
Weed and grass cutter. A. S. Briggs. 1,920,160; Aug. 1.
Welding apparatus, Automatic arc. P. P. Alexander. 1,920,734; Aug. 1.
Wheel: *See*—
Composite steering wheel.
Wheel holding device. J. A. Peters. 1,920,592; Aug. 1.
Wheel rim ornamental bead. G. A. Lyon. 1,920,575; Aug. 1.
Wheel rims, Machine for making. C. C. Grotnes. 1,920,303; Aug. 1.
Wheel structure, Metal. J. L. Hecht. 1,920,859; Aug. 1.
Window cleaning device. V. R. Hedden. 1,920,860; Aug. 1.
Window structure. O. L. Ware. 1,920,614; Aug. 1.
Wiper, the like normally used on motor cars and other propelled carriages, Vehicle windshield. E. C. Tilly. 1,920,447; Aug. 1.
Wiper, Windshield. J. F. Wiseman. 1,920,730; Aug. 1.
Wire and cable gripping device, Double. N. A. Pinson. 1,920,522; Aug. 1.
Wire containing titanium, Nickel welding. N. B. Pilling and T. E. Kihlgren. 1,920,432; Aug. 1.
Wirebound container. L. M. Hile. 1,920,560; Aug. 1.
Wool scouring. L. D. Jones. 1,920,469; Aug. 1.
Wrapper for expansible materials, Paper. J. W. Clark. 1,920,841; Aug. 1.
Wreath structure. C. O. Daum. 1,920,551; Aug. 1.
X-Ray cathode shield. N. H. Stewart. 1,920,606; Aug. 1.
X-ray device. L. F. Ehrke. 1,920,684; Aug. 1.
Yeast without alcohol, Producing. E. Jellinek. 1,920,395; Aug. 1.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 1, 1933

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 6: 1,920,260
32: 1,920,281
2— 42: 1,920,705
68: 1,920,387
201: 1,920,200
228: 1,920,634
240: 1,920,943
4— 8: 1,920,367
173: 1,920,513
5— 99: 1,920,580
274: 1,920,176
8— 5: R.18,910
6: 1,920,166
1,920,324
1,920,542
1,920,717
20: 1,920,188
10— 165: 1,920,600
12— 67.1: 1,920,235
1,920,256
82: 1,920,501
142: 1,920,338
1,920,554
13— 4: 1,920,380
16: 1,920,378
26: 1,920,325
15— 9: 1,920,621
20: 1,920,768
49: 1,920,624
104.20: 1,920,283
133: 1,920,398
147: 1,920,351
179: 1,920,667
220: 1,920,860
229: 1,920,355
250: 1,920,730
265: 1,920,171
16— 49: 1,920,868
114: 1,920,330
128: 1,920,466
154: 1,920,509
179: 1,920,568
1,920,898
17— 4: 1,920,339
18— 8: 1,920,737
15: R.18,908
47: 1,920,857
54: 1,920,212
55: 1,920,317
19— 165: 1,920,767
20— 0.5: 1,920,642
11: 1,920,614
18: 1,920,397
56.4: 1,920,722
71: 1,920,416
92: 1,920,276
22— 1: 1,920,854
58: 1,920,620
84: 1,920,300
126: 1,920,578
136: 1,920,699
202: 1,920,244
23— 3: 1,920,626
50: 1,920,289
75: 1,920,557
125: 1,920,208
1,920,442
151: 1,920,795
160: 1,920,307
203: 1,920,353
212: 1,920,858
243: R.18,907
277: 1,920,632
287: 1,920,905
24— 71: 1,920,739
73: 1,920,549
123: 1,920,493
1,920,927
134: 1,920,522
180: 1,920,834
230: 1,920,408
243: 1,920,899
263: 1,920,617
25— 41: 1,920,716
131: 1,920,607
156: 1,920,459
1,920,773
26— 17: 1,920,916
28— 28: 1,920,870
29— 33: 1,920,264
1,920,265
1,920,266
148.2: 1,920,409
156.8: 1,920,830
30— 9: 1,920,169
12: 1,920,711
33— 1: 1,920,250
36: 1,920,337
174: 1,920,839
214: 1,920,892
226: 1,920,241
34— 4: 1,920,567
16: 1,920,589
35— 8: 1,920,704
16: 1,920,201
36— 36: 1,920,170
57: 1,920,751
76: 1,920,383
1,920,670
37— 42: 1,920,475
108: 1,920,319
117: 1,920,731
141: 1,920,703
1,920,873
40— 68: 1,920,844
126: 1,920,221
130: 1,920,555
1,920,826
41— 5: 1,920,467
10: 1,920,575
12: 1,920,551
38: 1,920,361
46: 1,920,406
43— 5: 1,920,790
33: 1,920,478
47: 1,920,676
1,920,935
84: 1,920,695
44— 9: 1,920,766
10: 1,920,327
45— 24: 1,920,573
27: 1,920,471
1,920,472
91: 1,920,452
94: 1,920,654
116: 1,920,577
46— 50: 1,920,746
49— 17: 1,920,692
17.1: 1,920,336
1,920,366
48: 1,920,641
55: 1,920,593
1,920,908
62: 1,920,747
77.5: 1,920,728
81: 1,920,619
51— 50: 1,920,290
1,920,532
84: 1,920,847
95: 1,920,228
153: 1,920,347
170: 1,920,364
207: 1,920,204
211: 1,920,491
239: 1,920,537
52— 19: 1,920,438
24: 1,920,254
53— 3: 1,920,268
5: 1,920,571
56— 14: 1,920,418
58— 26: 1,920,838
32: 1,920,179
60— 73: 1,920,305
97: 1,920,596
102: 1,920,781
62— 3: 1,920,675
89: 1,920,515
99: 1,920,856
113: 1,920,508
119.5: 1,920,612
121: 1,920,434
1,920,526
125: 1,920,462
62— 140: 1,920,681
141: 1,920,570
178: 1,920,845
63— 16: 1,920,575
65— 61: 1,920,385
1,920,516
66— 50: 1,920,427
82: 1,920,435
114: 1,920,597
133: 1,920,879
67— 41: 1,920,933
69: 1,920,384
68— 26: 1,920,668
69— 7: 1,920,253
11: 1,920,842
70— 2: 1,920,189
14: 1,920,521
91: 1,920,848
113: 1,920,250
1,920,489
72— 18: 1,920,503
118: 1,920,919
1,920,920
73— 31: 1,920,504
167: 1,920,294
74— 7: 1,920,187
1,920,793
1,920,794
1,920,877
14: 1,920,687
33: 1,920,423
59: 1,920,579
63: 1,920,482
80: 1,920,890
81: 1,920,550
75— 1: 1,920,233
1,920,249
1,920,262
1,920,910
1,920,934
14: 1,920,379
15: 1,920,211
22.5: 1,920,376
1,920,377
27: 1,920,465
45: 1,920,909
62: 1,920,638
79— 3: 1,920,497
81— 9.1: 1,920,413
82— 2: 1,920,209
83— 10: 1,920,488
11: 1,920,945
1,920,946
1,920,947
84— 280: 1,920,850
87— 6: 1,920,469
9: 1,920,202
12: 1,920,499
88— 1: 1,920,345
14: 1,920,293
20: 1,920,428
24: 1,920,183
1,920,473
1,920,671
90— 20: 1,920,852
38: 1,920,476
91— 46: 1,920,411
68: 1,920,340
1,920,463
1,920,541
1,920,564
1,920,931
70: 1,920,191
1,920,627
70.1: 1,920,678
70.2: 1,920,439
92— 3: 1,920,496
14: 1,920,239
24: 1,920,392
38: 1,920,942
57: 1,920,292
61: 1,920,481
93— 36: 1,920,809
39: 1,920,761
1,920,810
94— 1.5: 1,920,582
95— 73: 1,920,561
76: 1,920,399
1,920,400
98— 70: 1,920,918
78: 1,920,884
99— 11: 1,920,540
1,920,587
13: 1,920,231
14: 1,920,222
100— 14: 1,920,841
101— 77: 1,920,232
126: 1,920,429
210: 1,920,419
220: 1,920,616
250: 1,920,891
351: 1,920,424
417: 1,920,178
102— 26: 1,920,257
103— 87: 1,920,371
96: 1,920,484
235: 1,920,443
252: 1,920,510
105— 155: 1,920,774
201: 1,920,415
234: 1,920,754
1,920,755
369: 1,920,917
375: 1,920,455
106— 18: 1,920,358
23: 1,920,298
107— 15: 1,920,445
58: 1,920,650
108— 7: 1,920,474
29: 1,920,520
110— 101: 1,920,334
1,920,535
165: 1,920,912
112— 2: 1,920,822
1,920,823
37: 1,920,643
252: 1,920,944
266: 1,920,784
113— 14: 1,920,869
112: 1,920,791
114— 16: 1,920,280
16.6: 1,920,301
115— 27: 1,920,391
116— 54: 1,920,310
114: 1,920,659
117— 23: 1,920,414
35: 1,920,182
118— 49: 1,920,732
1,920,733
59: 1,920,386
119— 5: 1,920,220
52: 1,920,536
120— 14: 1,920,770
38: 1,920,680
121— 28: 1,920,763
97: 1,920,447
164: 1,920,285
122— 68: 1,920,812
235: 1,920,776
302: 1,920,740
478: 1,920,798
485: 1,920,198
123— 7: 1,920,765
11: 1,920,201
119: 1,920,487
146.5: 1,920,604
174: 1,920,883
190: 1,920,923
1,920,924
196: 1,920,805
125— 33: 1,920,673
126— 163: 1,920,817
263: 1,920,853
128— 92: 1,920,821
154: 1,920,808
160: 1,920,648
239: 1,920,245
131— 6: 1,920,588
11: 1,920,483
39: 1,920,706
1,920,709
131— 43: 1,920,708
132— 32: 1,920,401
36: 1,920,531
36.2: 1,920,758
44: 1,920,690
78: 1,920,738
78.5: 1,920,893
134— 60: 1,920,352
76: 1,920,234
79: 1,920,297
136— 4: 1,920,755
5: 1,920,559
36.2: 1,920,759
177: 1,920,201
137— 139: 1,920,925
144: 1,920,872
1,920,949
176— 7: 1,920,528
161: 1,920,647
139— 88: 1,920,412
140— 3: 1,920,862
7: 1,920,495
117: 1,920,645
143— 43: 1,920,696
157: 1,920,584
144— 205: 1,920,343
288: 1,920,592
146— 113: 1,920,404
148— 8: 1,920,744
16: 1,920,368
21: 1,920,652
52: 1,920,586
149— 19: 1,920,341
150— 1: R.18,905
1,920,518
1.5: 1,920,308
1,920,581
11: 1,920,824
34: 1,920,802
151— 37: 1,920,792
152— 14: 1,920,506
153— 1: 1,920,780
2: 1,920,275
1,920,302
79.3: 1,920,583
183— 3: 1,920,466
4: 1,920,914
1,920,915
91: 1,920,437
184— 7: 1,920,225
11: 1,920,363
1,920,714
13: 1,920,381
28: 1,920,566
187— 16: 1,920,369
29: 1,920,590
36: 1,920,635
52: 1,920,535
188— 59: 1,920,218
62: 1,920,760
87: 1,920,192
89: 1,920,251
1,920,272
1,920,273
189— 34: 1,920,490
36: 1,920,602
1,920,831
192— 48: 1,920,712
128: 1,920,295
193— 3: 1,920,402
28: 1,920,457
194— 100: 1,920,625
195— 20: 1,920,395
1,920,735
1,920,736
24: 1,920,461
196— 3: 1,920,565
8: 1,920,941
18: 1,920,922
35: 1,920,247
1,920,248
1,920,270
53: 1,920,887
58: 1,920,815
1,920,929
59: 1,920,331
62: 1,920,886
108: 1,920,930
173— 264: 1,920,180
1,920,903
269: 1,920,553
328: 1,920,710
367: 1,920,843
175— 41: 1,920,177
1,920,346
264: 1,920,899
294: 1,920,329
1,920,745
298: 1,920,663
1,920,748
315: 1,920,709
338: 1,920,818
339: 1,920,220
368: 1,920,304
176— 7: 1,920,528
134: 1,920,921
135: 1,920,255
177— 316: 1,920,742
351: 1,920,768
178— 4.1: 1,920,453
44: 1,920,948
60: 1,920,454
179— 1: 1,920,775
5: 1,920,226
6: 1,920,729
18: 1,920,214
27: 1,920,213
1,920,226
90: 1,920,210
100.11: 1,920,628
115.5: 1,920,299
171: 1,920,238
1,920,274
1,920,342
1,920,611
1,920,743
1,920,863
175.3: 1,920,456
180— 67: 1,920,907
73: 1,920,175
79.3: 1,920,583
183— 3: 1,920,466
4: 1,920,914
1,920,915
91: 1,920,437
184— 7: 1,920,225
11: 1,920,363
1,920,714
13: 1,920,381
28: 1,920,566
187— 16: 1,920,369
29: 1,920,590
36: 1,920,635
52: 1,920,535
188— 59: 1,920,218
62: 1,920,760
87: 1,920,192
89: 1,920,251
1,920,272
1,920,273
189— 34: 1,920,490
36: 1,920,602
1,920,831
192— 48: 1,920,712
128: 1,920,295
193— 3: 1,920,402
28: 1,920,457
194— 100: 1,920,625
195— 20: 1,920,395
1,920,735
1,920,736
24: 1,920,461
196— 3: 1,920,565
8: 1,920,941
18: 1,920,922
35: 1,920,247
1,920,248
1,920,270
53: 1,920,887
58: 1,920,815
1,920,929
59: 1,920,331
62: 1,920,886
108: 1,920,930

196—	116:	1,920,888	217—	60:	1,920,679	235—	2:	1,920,464	250—	27.5:	1,920,649	260—	166:	1,920,282	285—	96:	R. 18,906
197—	126:	1,920,640		76:	1,920,672		27:	1,920,328			1,920,660			1,920,846			1,920,610
	165:	1,920,777		122:	1,920,560		60:	1,920,477			1,920,753		169:	1,920,796		111:	1,920,449
198—	19:	1,920,762	218—	19:	1,920,362		82:	R. 18,911		33:	1,920,215		170:	1,920,242		150:	1,920,524
	35:	1,920,563	219—	6:	1,920,900		86:	1,920,173		34:	1,920,656	261—	11:	1,920,682	286—	5:	1,920,209
	69:	1,920,615		8:	1,920,432		117:	1,920,394			1,920,861		18:	1,920,174	290—	4:	1,920,544
	139:	1,920,500			1,920,734		130:	1,920,375		35:	1,920,601		108:	1,920,623			1,920,689
	221:	1,920,417		10:	1,920,534	236—	14:	1,920,323			1,920,606		121:	1,920,719		38:	1,920,782
199—	29:	1,920,832		21:	1,920,629		15:	1,920,572			1,920,684	262—	7:	1,920,904	292—	228:	1,920,595
	55:	1,920,448		38:	1,920,685		26:	1,920,440		36:	1,920,194		9:	1,920,450		251:	1,920,669
200—	8:	1,920,431		39:	1,920,284			1,920,827		39:	1,920,655		30:	1,920,271		262:	1,920,693
	24:	1,920,229	220—	6:	1,920,312		42:	1,920,757	251—	10:	1,920,698	263—	9:	1,920,691		285:	1,920,356
		1,920,480		40:	1,920,533			1,920,896		165:	1,920,511		19:	1,920,685	296—	44:	1,920,816
	39:	1,920,664		42:	1,920,287		92:	1,920,505	252—	2:	1,920,603	264—	14:	1,920,752		97:	1,920,185
	122:	1,920,538		54:	1,920,288		99:	1,920,458		3:	1,920,172	265—	25:	1,920,263	297—	1:	1,920,502
		1,920,805		86:	1,920,530	237—	79:	1,920,778	254—	100:	1,920,433		49:	1,920,332	299—	58:	1,920,865
	148:	1,920,894	221—	60:	1,920,199	240—10.	67:	1,920,314		126:	1,920,216	267—	1:	1,920,547		84:	1,920,721
	158:	1,920,713		68:	1,920,359		62:	1,920,527		131:	1,920,350		54:	1,920,558		89:	1,920,165
201—	55:	1,920,217		77:	1,920,636	241—	1:	1,920,876		135:	1,920,686	271—	2.3:	1,920,479		114:	1,920,874
202—	30:	1,920,267		98:	1,920,895	242—	11:	1,920,901		166:	1,920,613			1,920,789		131:	1,920,840
	33:	1,920,951		102:	1,920,867			1,920,932		176:	1,920,224		30:	1,920,388	301—	5:	1,920,859
	51:	1,920,913	222—	7:	1,920,677		25:	1,920,203	255—	19:	1,920,928		79:	1,920,715	303—	1:	1,920,938
	84:	1,920,801	223—	15:	1,920,902		39:	1,920,196	257—	129:	1,920,562	272—	72:	1,920,574			1,920,939
	105:	1,920,622		30:	1,920,844		43:	1,920,836		141:	1,920,365	273—	84:	1,920,519			1,920,940
	151:	1,920,911	224—	29:	1,920,167		74:	1,920,657			1,920,779	274—	2:	1,920,631	304—	42:	1,920,552
204—	57:	1,920,819	226—	5:	1,920,707		75:	1,920,897		247:	1,920,800		10:	1,920,360	308—	11:	1,920,444
		1,920,820		82:	1,920,240		77:	1,920,181		249:	1,920,313			1,920,430			1,920,498
205—	16:	1,920,207			1,920,539			1,920,205		262:	1,920,357			1,920,936		20:	1,920,950
206—	19.5:	1,920,393		100:	1,920,605		111:	1,920,556	260—	2:	1,920,403	280—	22:	1,920,866		22:	1,920,609
	41:	1,920,864	229—	5.5	1,920,504		123:	1,920,420		3:	1,920,451		33.1:	1,920,571		43:	1,920,772
	44:	1,920,193			1,920,796			1,920,421		34:	1,920,697		33.44:	1,920,878		73:	1,920,723
	60:	1,920,837		5.6	1,920,529			1,920,422		45:	1,920,426		95:	1,920,651			1,920,724
209—	71:	1,920,701		17:	1,920,353	244—	30:	1,920,507		54:	1,920,494		106.5:	1,920,425			1,920,725
	120:	1,920,190			1,920,653	246—	63:	1,920,197		68:	1,920,329			1,920,661			1,920,726
210—	24:	R. 18,909		20:	1,920,320	247—	9:	1,920,219		78:	1,920,407		124:	1,920,208		160:	1,920,727
		1,920,756		31:	1,920,184		15:	1,920,811		101:	1,920,306		125:	1,920,390		187:	1,920,326
211—	146:	1,920,663		51:	1,920,227	248—	16:	1,920,436		112:	1,920,373	281—	34:	1,920,533		226:	1,920,348
212—	55:	1,920,370		62:	1,920,321		30:	1,920,849			1,920,585	284—	17:	1,920,441		228:	1,920,546
213—	7:	1,920,316			1,920,322	250—	11:	1,920,665		114:	1,920,851	285—	18:	1,920,658	309—	30:	1,920,470
	12:	1,920,410			1,920,700		16:	1,920,741		116:	1,920,344		30:	1,920,598	312—	112:	1,920,797
214—	65:	1,920,666	230—	117:	1,920,543		17:	1,920,296		124:	1,920,406		49:	1,920,807		114:	1,920,882
	67:	1,920,243	232—	41:	1,920,813			1,920,646		130.5:	1,920,828		58:	1,920,277		189:	1,920,855
		1,920,485	234—	1:	1,920,514		20:	1,920,223		142:	1,920,517			1,920,278			
215—	7:	1,920,396		8:	1,920,633		27:	1,920,576		152:	1,920,702			1,920,279			
	58:	1,920,335		27.5:	1,920,237			1,920,662		154:	1,920,604		69:	1,920,635			
	97:	1,920,286	235—	2:	1,920,372			1,920,906		159:	1,920,787		86:	1,920,512			
217—	3:	1,920,480			1,920,374		27.5:	1,920,630		166:	1,920,246	285—	91:	1,920,545			

U. S. GOVERNMENT PRINTING OFFICE: 1933

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Absopure Fruit Products, Inc., Los Angeles, Calif. Canned citrus fruit juices. Serial No. 338,348; Aug. 8. Class 46.

Ajax Hosiery Mills Phoenixville, Pa. Hosiery. Serial No 329,170; Aug. 8. Class 39.

Albion, Marion, Boston, Mass. Combination of chemicals that hydrogenate carbon. Serial No. 337,587; Aug 8. Class 6.

American Maize-Products Company, New York, N. Y. Syrup. Serial No. 338,212; Aug 8. Class 46.

American Retailers, Incorporated, New York, N. Y. Reports and booklets. Serial No. 339,246; Aug. 8. Class 38.

American Wire Fabrics Corporation, New York, N. Y. Wire screening. Serial No. 338,789; Aug. 8. Class 13.

American Woolen Company, New York, N. Y. Piece goods. Serial No. 339,175; Aug. 8. Class 42.

Arnold, Constable & Co., Inc., New York, N. Y. Corsets, brassières, girdles, etc. Serial No. 335,918; Aug. 8. Class 39.

Automatic Radio Manufacturing Company, Inc., Boston, Mass. Radio receiving sets. Serial No. 337,990; Aug. 8. Class 21.

Axtell, R. J., assignor to Protect-O Oils, Inc., Norfolk, Nebr. Lubricating oils. Serial No. 339,058; Aug. 8. Class 15.

Baker Extract Company, Springfield, Mass. Preparation for use in making ice cream. Serial No. 339,297; Aug. 8. Class 46.

Barber Asphalt Company, The, Philadelphia, Pa. Emulsified asphalt. Serial No. 339,143; Aug. 8. Class 12.

Barrell, William L., Company, New York, N. Y. Cotton suitings. Serial No. 336,489; Aug. 8. Class 42.

Bartlett, Greenleaf K., Belgrade Lakes, Maine. Table game. Serial No. 339,298; Aug. 8. Class 22.

Bendix-Cowdrey Brake Tester, Inc., South Bend, Ind. Brake testing devices. Serial No. 326,514; Aug. 8. Class 26.

Black, Louis O., doing business as Black Blade Company, Toledo, Ohio. Razor blades. Serial No. 339,146; Aug. 8. Class 23.

Black, McDonald & Co. (See Wine & Spirit Vaults Limited.)

Blazer, Philip L., doing business as Footlight Products Company, Chicago, Ill. Cream, lotion, face powder, etc. Serial No. 338,686; Aug. 8. Class 6.

Blumenthal, Sidney & Co. Inc., New York, N. Y. Pile fabrics. Serial No. 339,178; Aug. 8. Class 42.

Bluttoo Mfg. Co. (See Wiley, J. Elliot.)

Broderick, Walter S., doing business as Neutroid Products Co., San Diego, Calif. Medicines for the relief of colds. Serial No. 322,683; Aug. 8. Class 6.

Brown Company, Portland, Maine, and Berlin, N. H. Twine. Serial No. 338,484; Aug. 8. Class 7.

Brown Company, Portland, Maine, and Berlin, N. H. Paper towels. Serial No. 338,485; Aug. 8. Class 37.

Burnett's, Inc., Newark, N. J. Fish food, etc. Serial No. 337,943; Aug. 8. Class 46.

Burnett's, Inc., Newark, N. J. Fish food. Serial No. 338,135; Aug. 8. Class 46.

Burton-Dixie Corporation, Chicago, Ill. Porch beds. Serial No. 339,059; Aug. 8. Class 32.

California Conserving Co., San Francisco, Calif. Sauce for table use, etc. Serial No. 337,774; Aug. 8. Class 46.

California Produce Distributors, Los Angeles, Calif. Fresh vegetables. Serial No. 338,964; Aug. 8. Class 46.

California Prune Products Company, San Jose, Calif. Nonalcoholic maltless, prune beverage. Serial No. 338,965; Aug. 8. Class 45.

Carboloy Company, Inc., Detroit, Mich. Hard metal composition or alloy. Serial No. 339,347–8; Aug. 8. Class 14.

Carbon Products, Inc., New York, N. Y. Projector carbons. Serial No. 339,022; Aug. 8. Class 21.

Carlton Mills, Inc., New York, N. Y. Hosiery, underwear, and sweater jackets. Serial No. 310,509; Aug. 8. Class 39.

Celanese Corporation of America, New York, N. Y. Underwear. Serial No. 339,252; Aug. 8. Class 39.

Celanese Corporation of America, New York, N. Y. Fabrics of cellulose derivatives. Serial No. 339,253; Aug. 8. Class 42.

Churchill, Karroll & Kelly, New York, N. Y. Preparation for relieving troublesome conditions of the feet. Serial No. 339,180; Aug. 8. Class 6.

Coast 2 Coast Oil Company, Cleveland, Ohio. Lubricating oils. Serial No. 339,098; Aug. 8. Class 15.

Codo Manufacturing Corporation, Coraopolis, Pa. Typewriter ribbons and carbon paper. Serial No. 339,221; Aug. 8. Class 11.

Cohane, Sylvester T., Hartford, Conn. Folders for the game of solitaire. Serial No. 336,711; Aug. 8. Class 22.

Columbus Fireworks Display Company, Inc., Newfield, N. J. Torpedoes. Serial No. 318,821; Aug. 8. Class 9.

Compagnie Generale des Machines Parlantes Pathe-Freres, Paris, France. Talking machines and parts and accessories. Serial No. 338,241; Aug. 8. Class 36.

Conadwel Laboratories, Inc., New York, N. Y. General tonic. Serial No. 337,837–8; Aug. 8. Class 6.

Cribari, B., & Sons, San Jose, Calif. Wines. Serial No. 339,386; Aug. 8. Class 47.

Cunliffe, Dobson & Co. (See Dubois Freres & Cie.)

Delapenha, R. U., & Co. Inc., New York, N. Y. Olive oil. Serial No. 337,998; Aug. 8. Class 6.

Diamond Oil Burner Mfg. Co. (See Fransosi, Antonio.)

Donahoe's Inc., Pittsburgh, Pa. Canned vegetables. Serial No. 323,486; Aug. 8. Class 46.

Dubos Freres & Cie., doing business as Cunliffe, Dobson & Co., Bordeaux, France. Wines. Serial No. 331,856; Aug. 8. Class 47.

Eisler Electric Corporation, Wilmington, Del., and Union City, N. J. Metal sheet, metal rods, etc. Serial No. 328,164; Aug. 8. Class 14.

Entin, Sol, doing business as Utility Instantaneous Electric Water Heater Co., New York, N. Y. Water heaters. Serial No. 327,973; Aug. 8. Class 21.

Falkingham, Percival E., New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. Serial No. 338,651; Aug. 8. Class 6.

Fernandes, Palicio y Compañia, S. en C., Habana, Cuba. Cigars. Serial No. 338,820; Aug. 8. Class 17.

Flewelling, Edmund T., doing business as Flewelling Company, Dayton, Ohio. Radio receiving sets and parts thereof, etc. Serial No. 338,547; Aug. 8. Class 21.

Footlight Products Company. (See Blazer, Philip L.)

Fox River Paper Company, Appleton, Wis. Bond paper. Serial No. 339,432; Aug. 8. Class 37.

Fransosi, Antonio, doing business as Diamond Oil Burner Mfg. Co., Providence, R. I. Oil burners. Serial No. 326,011; Aug. 8. Class 34.

Frozen Confections, Inc., New York, N. Y. Frosen confections. Serial No. 331,026; Aug. 8. Class 46.

Fuld Bros., Inc., Baltimore, Md. Antifreeze composition, boiler compounds, cattle spray, etc. Serial No. 337,182; Aug. 8. Class 6.

Gammage, Mrs. James A., doing business as Glo-Ri-Glo Supply Co., Hopewell, Va. Cosmetics. Serial No. 338,409; Aug. 8. Class 6.

Gary-Lockhart Drug Co. Inc. (See Lockhart, P. O.)

General Electric X-Ray Corporation, Chicago, Ill. High frequency machines for producing local and general fevers. Serial No. 339,103; Aug. 8. Class 44.

General Vegetable Oil Company, Inc., New York, N. Y. Vegetable shortening. Serial No. 337,562; Aug. 8. Class 46.

Gilbert & Barker Manufacturing Company, West Springfield, Mass. Electric motors, electrical switches, etc. Serial No. 338,041; Aug. 8. Class 21.

Glo-Ri-Glo Supply Co. (See Gammage, Mrs. James A.)

Goetz, M. K., Brewing Co., St. Joseph, Mo. Malt beverages. Serial No. 338,929; Aug. 8. Class 48.

Goldsmit-Black, Inc., Pittsburgh, Pa. Cigars. Serial Nos. 339,306–7; Aug. 8. Class 17.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Molding powder and synthetic plastic. Serial No. 336,982; Aug. 8. Class 1.

Granat, Joseph, San Francisco, Calif. Finger rings. Serial No. 338,973; Aug. 8. Class 28.

Gray, Herbert H., doing business as Novita Company, Chicago, Ill. Proprietary preparations. Serial No. 336,483; Aug. 8. Class 6.

Great American Tea Co., The, New York, N. Y. Canned food products. Serial No. 338,186; Aug. 8. Class 46.

Haire Publishing Company, Inc., The, New York, N. Y. Publication. Serial No. 338,087; Aug. 8. Class 38.

Harriett Silk Sales Corporation, New York, N. Y. Coats, dresses, etc. Serial No. 339,032; Aug. 8. Class 39.

Hartford Products Corporation, Hartford, Conn. Electric cook stoves. Serial No. 333,153; Aug. 8. Class 21.

Hartford Products Corporation, Hartford, Conn. Coffee makers. Serial No. 333,159; Aug. 8. Class 13.

Hearb Mfg. Co. Inc., The, Cleveland, Ohio. Laxative and a diuretic stimulant. Serial No. 338,189; Aug. 8. Class 6.

Herman, Louis B., Brooklyn, N. Y. Shoes and overshoes. Serial No. 338,494; Aug. 8. Class 39.

Hirsch Mercantile Company, Los Angeles, Calif. Lubricating oils and motor fuel oils. Serial No. 338,589; Aug. 8. Class 15.

Hobby Work Shop. (See Walter, David.)

Hoy, F. P., Inc., New York, N. Y. Corsets, brassières, and underwear. Serial No. 309,977; Aug. 8. Class 39.

Hydeman & Lassner Inc., New York, N. Y. Lace piece goods. Serial No. 338,006; Aug. 8. Class 42.

Indian Valley Dairy, Kansas City, Mo. Milk and cream. Serial No. 338,743; Aug. 8. Class 46.

Industrial Jewel Company, Inc., The, Waltham, Mass. Jewel bearings. Serial No. 338,007; Aug. 8. Class 26.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Inland Glass Works, Inc., Chicago, Ill. Lighting globes, baking bowls, covers, etc. Serial No. 338,870; Aug. 8. Class 33.

Interstate Amiesite Co., Inc., The, Wilmington, Del. Paving material. Serial No. 337,428; Aug. 8. Class 12.

Iroquois Beverage Corporation, Buffalo, N. Y. Malt beverages. Serial No. 339,273; Aug. 8. Class 48.

Joffe, Julian A., doing business as Telatimer Company, New York, N. Y. Timing devices. Serial No. 327,556; Aug. 8. Class 26.

Johnstone, Arthur A., New York, N. Y. Bonding material for surfacing tennis courts. Serial No. 338,569; Aug. 8. Class 12.

Kempinski, M., & Co., Berlin, Germany. Wines and champagnes. Serial No. 335,124; Aug. 8. Class 47.

Kingston Radio Company, Inc., Kokomo, Ind. Radio receiving sets. Serial No. 338,901. Aug. 8. Class 21.

Ki-Uma, Inc., New York, N. Y. External preparation in the form of an ointment. Serial No. 336,772; Aug. 8. Class 6.

Klein Brothers, New York, N. Y. Real silk, wool, linen, cotton, etc. Serial No. 329,716; Aug. 8. Class 42.

Kohn, Samuel, New York, N. Y. Table board game. Serial No. 329,71; Aug. 8. Class 22.

Krakauer Bros., New York, N. Y. Pianos. Serial No. 331,001; Aug. 8. Class 36.

Lang Brothers, Limited, Glasgow, Scotland. Whisky. Serial No. 338,154; Aug. 8. Class 49.

Langdoc, Samuel N., doing business as Triple-L Chemical Co., St. Louis, Mo. Hair dressing. Serial No. 338,783; Aug. 8. Class 6.

Lesiak, C. A., doing business as Lortona Laboratories, Scranton, Pa. Stomach medicine and tonic. Serial No. 338,744; Aug. 8. Class 6.

Lewis, Rosemarie, Los Angeles, Calif. Rectual suppositories and ointments. Serial No. 337,651; Aug. 8. Class 6.

Lockhart, P. O., doing business as Gary-Lockhart Co. Inc., Perry, Fla. Salve. Serial No. 328,557; Aug. 8. Class 6.

Lortona Laboratories. (See Lesiak, C. A.)

Lynch, Buford A., jr., Washington, D. C. Playing cards. Serial No. 333,972; Aug. 8. Class 22.

Macdonald, William H., East Newark, N. J. Motion picture exciting lamps. Serial No. 337,342; Aug. 8. Class 21.

MacFarland, Daniel D., Los Angeles, Calif. Series of cartoons. Serial No. 339,319; Aug. 8. Class 38.

Maney Milling Company, Omaha, Nebr. Wheat flour. Serial No. 336,988; Aug. 8. Class 46.

Manhattan Shirt Co., The, New York, N. Y. Pull-overs or sweaters. Serial No. 338,611; Aug. 8. Class 39.

Manny-Rielly Co., New York, N. Y. Underwear. Serial No. 339,038; Aug. 8. Class 39.

Marilyn Slipper Shops, Augusta, Ga. Shoes. Serial No. 327,228; Aug. 8. Class 39.

Marine Chemical Company, Ltd., doing business as Marinesia Laboratories, San Francisco, and South San Francisco, Calif. Pharmacentical preparation. Serial No. 337,885; Aug. 8. Class 6.

Marinesia Laboratories. (See Marine Chemicals Company, Ltd.)

Martin, Derick R., Edgeware, England. Whisky. Serial No. 338,036; Aug. 8. Class 49.

Mathieson Alkali Works, Inc., The, New York, N. Y. Fused soda ash. Serial No. 338,824; Aug. 8. Class 6.

McDowell, Fred, Asbury Park, N. J. Fertilizer. Serial No. 337,075; Aug. 8. Class 10.

McLoughlin Manufacturing Company, Indianapolis, Ind. Pajamas, night shirts, etc. Serial No. 335,127; Aug. 8. Class 39.

Merck & Co., Inc., Rahway, N. J. Medicinal preparation. Serial No. 339,156; Aug. 8. Class 6.

Merit Associated Hosiery Mills, Inc., New York, N. Y. Hosiery. Serial No. 338,873; Aug. 8. Class 39.

Minute Safety Razor Corporation, Newark, N. J. Safety razor blades. Serial No. 338,532; Aug. 8. Class 23.

Mon Docteur Importing Co., Inc., Middlefield, Conn. Sanitary sets. Serial No. 338,420; Aug. 8. Class 6.

Mon Docteur Importing Co., Inc., Middlefield, Conn. Medication recommended for feminine antiseptic purposes. 338,423; Aug. 8. Class 6.

Monroe and Shepherd, Akron, Ohio. Fly swatters. Serial No. 339,322; Aug. 8. Class 50.

Morganda & Silva, Villa Nova de Gaya, Portugal. Wines. Serial No. 339,160; Aug. 8. Class 47.

Multigraph Company, Wilmington, Del., and Cleveland, Ohio. Chemicals. Serial No. 338,699; Aug. 8. Class 6.

Naghten, Nancy, Chicago, Ill. Publications. Serial No. 338,788; Aug. 8. Class 38.

National Cellulose Corporation, New York, N. Y. Cleansing tissues. Serial No. 334,715; Aug. 8. Class 37.

National Chemical Corporation, Seattle, Wash. Cleaning compound for rugs, carpets, etc. Serial No. 338,102; Aug. 8. Class 4.

National Electric Products Corporation, Pittsburgh, Pa. Material for moisture proofing wires and cables. Serial No. 312,448; Aug. 8. Class 6.

National Electric Products Corporation, Pittsburgh, Pa. Material for fire-proofing wires and cables. Serial No. 312,449; Aug. 8. Class 6.

National Electric Products Corporation, Pittsburgh, Pa. Solution for coloring wires and cables. Serial No. 312,450; Aug. 8. Class 6.

National Union Radio Corporation, Newark, N. J. Radio electron tubes. Serial No. 337,347; Aug. 8. Class 21.

Neutroid Products Co. (See Broderick, Walter S.)

Nopco Laboratories, Inc., Harrison, N. J. Cod-liver oil and vitamine. Serial No. 337,082; Aug. 8. Class 6.

Nopco Laboratories, Inc., Harrison, N. J. Vitamine-D carrying menstruums for breads, biscuits, etc. Serial No. 337,084; Aug. 8. Class 46.

Novita Company. (See Gray, Herbert H.)

O'Connor, Edward J., St. Louis, Mo. Depilatories. Serial No. 338,700; Aug. 8. Class 6.

Pacific Knitting Mills, Incorporated, The, Los Angeles, Calif. Sweaters. Serial No. 339,200; Aug. 8. Class 39.

Palace Clothiers, The, Tulsa, Okla. Rain coats and over coats. Serial No. 328,278; Aug. 8. Class 39.

Parfumerie Roger et Gallet, Societe Anonyme, doing business as Roger & Gallet, Paris, France. Pastes and powders. Serial No. 338,664; Aug. 8. Class 6.

Paris Curtain & Linen Stores, Inc., New York, N. Y. Curtains and draperies. Serial No. 333,400; Aug. 8. Class 42.

Paris Curtain & Linen Stores, Inc., New York, N. Y. Draperies, piano scarfs, etc. Serial No. 333,401; Aug. 8. Class 42.

Paris Curtain & Linen Stores, Inc., New York, N. Y. Curtains made of textile fabrics. Serial No. 333,402; Aug. 8. Class 42.

Paris Medicine Company, The, Wilmington, Del., and St. Louis, Mo. Medicinal tablet. Serial No. 338,755; Aug. 8. Class 6.

Pennzoil Company, The, Oil City, Pa. Lubricating oils. Serial No. 339,114; Aug. 8. Class 15.

Philadelphia and Reading Coal and Iron Company, The, Philadelphia, Pa. Automatic furnaces and parts thereof. Serial Nos. 339,238-9; Aug. 8. Class 34.

Platt Hosiery Company, New York, N. Y. Hose and hose supporters. Serial No. 317,092; Aug. 8. Class 39.

Prodiscon Products, Incorporated, Minneapolis, Minn. Undergarments. Serial No. 335,004; Aug. 8. Class 39.

Protect-O Oils, Inc. (See Axtell, R. J., assignor.)

Puro Co., Inc., The, St. Louis, Mo. Deodorizer for refrigerators. Serial No. 338,791; Aug. 8. Class 6.

Qualcast Limited, Derby, England. Lawn mowers and parts thereof. Serial No. 339,240; Aug. 8. Class 23.

Rawson Sales Company, Inc., Long Island City, N. Y. Candy. Serial No. 320,872; Aug. 8. Class 46.

Reed Candy Company, Chicago, Ill. Butter scotch candy. Serial No. 338,619; Aug. 8. Class 46.

Refiners Marketing Company Limited, Los Angeles, Calif. Lubricating oils. Serial No. 339,118; Aug. 8. Class 15.

Remington Rand Inc., Buffalo, N. Y. Photographing cameras, cabinets, trays, etc. Serial No. 337,758; Aug. 8. Class 26.

Richfield Oil Corporation of New York, New York, N. Y. Petroleum products. Serial No. 338,111; Aug. 8. Class 15.

Rock-Ola Manufacturing Corporation, Chicago, Ill. Amusement device. Serial No. 339,241; Aug. 8. Class 22.

Roger & Gallet. (See Parfumerie Roger et Gallet, Societe Anonyme.)

Rok Laboratories, Inc., North Kansas City, Mo. Insecticides. Serial No. 337,871; Aug. 8. Class 6.

Romagnoli, Vincent, doing business as Sherman Rider Co., Detroit, Mich. Hair tonic. Serial No. 338,794; Aug. 8. Class 6.

Rosefield Packing Company, Ltd., Alameda, Calif. Peanut butter. Serial No. 339,002; Aug. 8. Class 46.

Ross, W. A., & Brother, Limited, Liverpool, England. Malt beverages. Serial No. 339,165; Aug. 8. Class 48.

Ross, W. A., & Brother, Limited, Liverpool, England. Gin, sloe gin, orange bitters, etc. Serial No. 339,166; Aug. 8. Class 49.

Sachi & Weinstein, New York, N. Y. Ladies' hosiery. Serial No. 331,822; Aug. 8. Class 39.

Schmid, Julius, New York, N. Y. Prophylactic rubber and membraneous articles. Serial No. 337,685; Aug. 8. Class 44.

Sears, Roebuck and Co., Chicago, Ill. Disinfectant, cod liver oil, etc. Serial No. 335,695; Aug. 8. Class 6.

Sears, Roebuck and Co., Chicago, Ill. Wrenches, augers, butcher knives, etc. Serial No. 336,301; Aug. 8. Class 23.

Sherman Rider Co. (See Romagnoli, Vincent.)

Smith, Landon P., Inc., Irvington, N. J. Lawn sprinklers. Serial No. 339,127; Aug. 8. Class 13.

Societe Anonyme Schiaparelli, Paris, France. Wearing apparel and accessories. Serial No. 335,038; Aug. 8. Class 39.

Societe Cadum, Courbevoie, France. Toilet soap. Serial No. 333,776; Aug. 8. Class 4.

Spindler, Lorenz G., New York, N. Y. Wheat flour. Serial No. 336,102; Aug. 8. Class 46.

Stephano Brothers, Philadelphia, Pa. Cigarettes. Serial No. 336,235; Aug. 8. Class 17.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Stomaseptine Company, New York, N. Y. Antiseptic powder. Serial No. 337,864; Aug. 8. Class 6.

Sunrise Fish Co., Inc., Islip, N. Y. Whole fish. Serial No. 316,466; Aug. 8. Class 46.

Telatimer Company. (See Joffe, Julian A.)

Timber Engineering Company, Washington, D. C. Lumber and fabricated metal joints. Serial No. 339,212; Aug. 8. Class 12.

Triple-L Chemical Co. (See Langdoc, Samuel N.)

Universal Brassiere & Justrite Corset Co. Inc., New York, N. Y. Corsets, girdles, corselets, etc. Serial No. 338,295; Aug. 8. Class 39.

Utility Instantaneous Electric Water Heater Co. (See Entin, Sol.)

Vanderbilt, R. T., Company, Inc., New York, N. Y. Specially treated calcium carbonate. Serial No. 336,197; Aug. 8. Class 6.

Veldown Company, Inc., New York, N. Y. Cleansing tissues. Serial No. 338,913; Aug. 8. Class 37.

Vernon Brewing Company, Los Angeles, Calif. Malt cereal beverage. Serial No. 339,413; Aug. 8. Class 48.

Vernon Brewing Company, Los Angeles, Calif. Malt cereal beverage. Serial No. 339,415; Aug. 8. Class 48.

Vernon Brewing Company, Los Angeles, Calif. Malt cereal beverage. Serial No. 339,417; Aug. 8. Class 48.

Victor Animatograph Corporation, Davenport, Iowa. Kinematographs, kinematographic cameras, projecting lanterns, etc. Serial No. 339,085; Aug. 8. Class 26.

Vino Sano Company, San Francisco, Calif. Wines. Serial No. 338,837; Aug. 8. Class 47.

Vogt, F. G., & Sons, Incorporated, Philadelphia, Pa. Sausage. Serial No. 337,684; Aug. 8. Class 46.

Wabash Appliance Corp., Brooklyn, N. Y. Incandescent lamps or bulbs. Serial No. 336,064; Aug. 8. Class 21.

Wait, Justin F., New York, N. Y. Lubricating oils and greases, etc. Serial No. 339,087; Aug. 8. Class 15.

Walker, John, & Sons, Limited, London, England. Whisky. Serial No. 339,170; Aug. 8. Class 49.

Walter, David, doing business as Hobby Work Shop, Pasadena, Calif. Card game packages and accessories for playing cards. Serial No. 339,051; Aug. 8. Class 22.

Wampole, Henry K., and Company, Incorporated, Philadelphia, Pa. Antacid digestant, carminative. Serial No. 336,891; Aug. 8. Class 6.

Wehle Brewing Company, The, West Haven, Conn. Malt beverages. Serial No. 338,633-4; Aug. 8. Class 48.

Western Paint & Varnish Company, Duluth, Minn. Paints and enamels, etc. Serial No. 338,237; Aug. 8. Class 16.

Whitehead Metal Products Company of New York, Inc., New York, N. Y. Gas automatic hot water storage systems. Serial No. 328,856; Aug. 8. Class 34.

Whittier Craftsmen, Inc., The, Amesbury, Mass. Game. Serial No. 339,052; Aug. 8. Class 22.

Wildroot Company, Incorporated, Buffalo, N. Y. Antiseptic. Serial No. 338,675; Aug. 8. Class 6.

Wile, Julius, Sons & Co., New York, N. Y. Sherry wine. Serial No. 339,134; Aug. 8. Class 47.

Wile, Julius, Sons & Co., New York, N. Y. Sherry wine. Serial No. 339,171; Aug. 8. Class 47.

Wiley, J. Elliot, doing business as Blutoo Mfg. Co., Philadelphia, Pa. Washing and bluing compounds. Serial No. 339,055; Aug. 8. Class 6.

Williams Turkey Tonic, Monticello, Ill. Preparation for treating blackhead in turkeys. Serial No. 336,480; Aug. 8. Class 6.

Wine & Spirit Vaults Limited, doing business as Black, McDonald & Co., London, England. Whisky, etc. Serial No. 336,142; Aug. 8. Class 49.

Winsor & Newton, Limited, London, England. Paint colors, pigments, etc. Serial No. 337,902; Aug. 8. Class 16.

LIST OF REGISTRANTS OF TRADE-MARKS

A C Spark Plug Company. (See Champion Ignition Co.)

Abdulla & Company, Limited, London, England. Cigarettes. 41,614; renewed Dec. 8, 1933.

Aktiebolaget Sveriges Forenade Konservfabriker, Gottenborg, Sweden. Canned fish. 305,254; Aug. 8; Serial No. 334,857; published May 23, 1933. Class 46.

Aktiengesellschaft Cilander, Herisau, Switzerland. Organdy. 305,155; Aug. 8; Serial No. 335,571; published May 23, 1933. Class 42.

Alaska Pacific Salmon Corporation. (See Sanborn, George W., & Son, assignor.)

American Bitumuls Company, Wilmington, Del., and San Francisco, Calif. Asphalt, asphalt binders, asphaltic emulsions, etc. 305,285; Aug. 8; Serial No. 325,740; published May 23, 1933. Class 12.

American Can Company, New York, N. Y. Receptacles. 92,935; renewed Aug. 12, 1933.

American Chemical Manufacturing & Mining Co., Rochester, assignor to 2 in 1-Shimola-Bixby Corporation, New York, N. Y. Shoe-polish. 41,082; renewed Sept. 8, 1933.

American Multigraph Sales Company, assignor to Multigraph Company, Cleveland, Ohio. Machinery, tools, and parts thereof. 92,385; renewed July 8, 1933.

American Optical Company, Southbridge, Mass. Measuring and scientific appliances. 92,386; renewed July 8, 1933.

American Optical Company, Southbridge, Mass. Cutlery, machinery, tools and parts thereof. 92,387; renewed July 8, 1933.

American Pistachio Inc., New York, N. Y. Roasted and salted pistachio nuts. 305,176; Aug. 8; Serial No. 336,416; published May 23, 1933. Class 46.

American Safety Razor Corporation, Brooklyn, N. Y. Safety razors and safety razor blades. 305,160; Aug. 8; Serial No. 336,388; published May 23, 1933. Class 23.

American Sheet and Tin Plate Company, Pittsburgh, Pa. Iron and steel sheets and plates, etc. 94,572; renewed Dec. 23, 1933.

American Soya Products Corporation, Evansville, Ind. Soya bean flour. 305,224; Aug. 8; Serial No. 332,943; published May 16, 1933. Class 46.

American Steel and Wire Company of New Jersey, The, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass.; and Hoboken, N. J. Metal fence posts. 305,295; Aug. 8. Class 13.

American Steel & Wire Co. of New Jersey, The, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass.; and Hoboken, N. J., to The American Steel and Wire Company of New Jersey, Cleveland, Ohio. Sulfate of iron. 94,573; renewed Dec. 23, 1933.

American Wire Fabrics Company, Chicago, Ill., and Clinton, Iowa, assignor to American Wire Fabrics Corporation, New York, N. Y. Screen wire-cloth. 93,658; renewed Oct. 14, 1933.

Anchor Stove and Range Company, New Albany, Ind. Stoves and ranges. 40,837; renewed July 28, 1933.

Annedals Knäckebrödsbageri, Gottenborg, Sweden. Bread. 305,158; Aug. 8; Serial No. 335,573; published May 23, 1933. Class 46.

Argonaut Bottling Company, San Francisco, Calif. Cereal malt beverage. 305,273; Aug. 8; Serial No. 336,813; published May 23, 1933. Class 48.

Art Plate Glass & Mirror Works. (See Braecklein, Ferdinand H.)

Atkins, E. C., and Company, Indianapolis, Ind. Saws. 93,149; renewed Aug. 26, 1933.

Ault & Wiborg Company, The, New York, N. Y. Carbon paper, typewriter ribbons, inks. 305,218; Aug. 8; Serial No. 335,843; published May 23, 1933. Class 11.

Ault & Wiborg Company, The, New York, N. Y. Printing ink. 305,265; Aug. 8; Serial No. 336,707; published May 23, 1933. Class 11.

Ault & Wiborg Company, The, New York, N. Y. Carbon paper and typewriter ribbons. 305,291; Aug. 8. Class 11.

Axton-Fisher Tobacco Co., The, Louisville, Ky. Smoking tobacco. 305,186; Aug. 8; Serial No. 336,315; published May 23, 1933. Class 17.

Baker Extract Company, Springfield, Mass. Flavoring extracts. 305,244; Aug. 8; Serial No. 333,661; published May 23, 1933. Class 46.

Barrell, Charles, Tampa, Fla. Kalsomine. 305,284; Aug. 8; Serial No. 316,627; published June 28, 1932. Class 16.

Barrell, William L., Co., Inc., New York, N. Y. Waterproofed fabrics. 305,210; Aug. 8; Serial No. 336,069; published May 23, 1933. Class 50.

Beattie Manufacturing Company, Little Falls, N. J., New York, N. Y., and Chicago, Ill., to Beattie Manufacturing Company, Little Falls, N. J., and New York, N. Y. Textile rugs. 92,035; renewed June 17, 1933.

Beaumont Rice Mills, Beaumont and El Campo, Tex., to Beaumont Rice Mills, Beaumont, Tex., successor. Rice. 92,390; renewed July 8, 1933.

Beaumont Rice Mills, Beaumont and El Campo, Tex., to Beaumont Rice Mills, Beaumont, Tex., successor. Rice. 92,509; renewed July 15, 1933.

Becharas, Nicholas, doing business as Becharas Brothers, Detroit, Mich. Gelatine dessert. 305,231; Aug. 8; Serial No. 330,844; published May 23, 1933. Class 46.

Bessire & Company, Indianapolis, Ind. Mince meat, jellies, jams, and preserves. 305,280; Aug. 8; Serial No. 310,671; published May 16, 1933. Class 46.

Bissell Carpet Sweeper Co., Grand Rapids, Mich. Carpet sweepers and parts thereof. 305,183; Aug. 8; Serial No. 336,346; published May 23, 1933. Class 23.

Borden, M. C. D., & Sons, Inc., New York, N. Y. Cotton piece goods. 305,178; Aug. 8; Serial No. 336,492; published May 16, 1933. Class 42.

Borden's Condensed Milk Co., assignor to Borden's Milk Products Company, Inc., New York, N. Y. Confectionery. 40,691; renewed June 30, 1933.

Borg-Warner Corporation, Chicago, Ill. Timing gears. 305,243; Aug. 8; Serial No. 333,756; published May 23, 1933. Class 23.

Braecklein, Ferdinand H., doing business as Art Plate Glass & Mirror Works, Baltimore, Md. Mirrors, mirror cabinets, mirror valances, etc. 305,206; Aug. 8; Serial No. 335,955; published May 23, 1933. Class 32.

Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigarettes, tobacco and snuff. 305,267; Aug. 8; Serial 336,752–3; published May 23, 1933. Class 17.

Brown & Williamson Tobacco Corporation, Louisville, Ky. Tobacco. 305,268–9; Aug. 8; Serial Nos. 336-752–3; published May 23, 1933. Class 17.

Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigarettes, tobacco and snuff. 305,270; Aug. 8; Serial No. 336,754; published May 23, 1933. Class 17.

Buonocore, Vincent, Inc., New York, N. Y. Oils for food purposes. 305,156; Aug. 8; Serial No. 335,440; published May 16, 1933. Class 46.

Butterfield, Fred, & Co., Inc. (See Hyde, A. G., & Sons, assignor.)

Campbell, S., & Son Limited, Glasgow, Scotland. Scotch whisky. 305,157; Aug. 8; Serial No. 335,574; published May 23, 1933. Class 49.

Candy Products Corporation, Owosso, Mich. Candies. 305,225; Aug. 8; Serial No. 332,985; published May 16, 1933. Class 46.

Canonne, Henry, Paris, France, assignor, by mesne assignments, to Pastival, Inc., New York, N. Y. Pastils for treatment of maladies of the respiratory organs. 41,487; renewed Nov. 17, 1933.

Canter, J. Wallace, New York, N. Y. Waterproof cement. 305,289; Aug. 8. Class 5.

Cappellino, Francesco, Rochester, N. Y. Olive oil. 305,197; Aug. 8; Serial No. 336,213; published May 16, 1933. Class 46.

Carbide and Carbon Chemicals Corporation, New York, N. Y. Solvents. 305,207; Aug. 8; Serial No. 335,990; published May 23, 1933. Class 6.

Cellas', Inc. (See Petrocelli, Joseph, & Company, assignor.)

Champion Ignition Co., by change of name, to A C Spark Plug Company, Flint, Mich. Spark-plugs. 94,060; renewed Nov. 4, 1933.

Clear Spring Distilling Co. (See Denneby, Thomas C.)

Cleeves Limited, London, England. Candies. 305,160; Aug. 8; Serial No. 335,630; published May 16, 1933. Class 46.

Cleveland Games Company, The, Cleveland, Ohio. Number game. 305,201; Aug. 8; Serial No. 336,154; published May 23, 1933. Class 22.

Cogley, James E., doing business as The Mdse. Mart, Sioux Falls, S. Dak. Corn cob pipes. 305,245; Aug. 8; Serial No. 333,650; published May 23, 1933. Class 17.

Cohn Hall Marx Co., New York, N. Y. Silk piece goods. 305,247; Aug. 8; Serial No. 333,381; published May 23, 1933. Class 42.

Columbia Alkali Corporation, The, Barberton, Ohio. Calcium chloride and compounds derived therefrom. 305,219; Aug. 8; Serial No. 335,852; published May 23, 1933. Class 6.

Comly Flanigen Company, Philadelphia, Pa. Canned fruits and vegetables, olive oil and macaroni. 305,238; Aug. 8; Serial No. 334,425; published May 16, 1933. Class 46.

Compañia Mata Union de Bodegas Andaluzas S. A., Malaga, Spain. Wines. 305,196; Aug. 8; Serial No. 336,214; published May 23, 1933. Class 47.

Confectione s' Machinery and Manufacturing Company, to National Equipment Company, Springfield, Mass., successor. Molding or printing and starch machines. 41,796; renewed Dec. 29, 1933.

Confectioners' Machinery and Manufacturing Company, to National Equipment Company, Springfield, Mass., successor. Confectionery coating machine. 41,797; renewed Dec. 29, 1933.

Continental Briar Pipe Co., Inc., Brooklyn, N. Y. Pipes. 305,233; Aug. 8; Serial No. 331,612; published May 23, 1933. Class 8.

Coyne & Paddock Inc., Long Island City, N. Y. Cork sheets. 305,250; Aug. 8; Serial No. 334,633; published May 23, 1933. Class 50.

Crallo Sweets, Incorporated, Brooklyn, N. Y. Confectionery. 305,182; Aug. 8; Serial No. 336,350; published May 23, 1933. Class 46.

Crucible Steel Company of America, Jersey City, N. J., and New York, N. Y., to Crucible Steel Company of America, New York, N. Y. Tool steel. 40,841; renewed July 28, 1933.

Curtice Brothers Co., Rochester, N. Y. Chili sauce. 305,214; Aug. 8; Serial No. 332,367; published May 23, 1933. Class 46.

Curtice Brothers Co., Rochester, N. Y. Tomato juice. 305,215; Aug. 8; Serial No. 332,368; published May 23, 1933. Class 46.

Dalley, F. F., Co. of Hamilton, Limited, The, Hamilton, Canada, assignor, by mesne assignments, to 2 in 1 Shinola-Bixby Corporation, New York, N. Y. Shoe-polish paste. 41,374; renewed Oct. 27, 1933.

D'Amico Macaroni Co., Inc., Newark, N. J. Macaroni. 305,200; Aug. 8; Serial No. 336,176; published May 16, 1933. Class 46.

D'Astolfo, Raffaele, doing business as Monday Light Chemical Company, Greensburg, Pa. Chemical preparation. 305,205; Aug. 8; Serial No. 335,930; published May 23, 1933. Class 6.

Decorative Cabinet Corp., Long Island City, N. Y. Paper and cardboard cabinets, chests and boxes. 305,208; Aug. 8; Serial No. 335,997; published May 23, 1933. Class 2.

Dennehy, Thomas C., doing business as Clear Spring Distilling Co., Chicago, Ill. Whisky. 305,189; Aug. 8; Serial No. 336,264; published May 23, 1933. Class 49.

Deutsche Hydrierwerke, A.-G., Berlin-Charlottenburg, Germany. Detergents and conditioning preparations. 305,227; Aug. 8; Serial No. 329,789; published May 23, 1933. Class 4.

Dickinson & Co., Chicago and Eureka, Ill. Canned vegetables. 305,288; Aug. 8. Class 46.

Dublin Distillers Company, Limited, The, Dublin, Ireland. Whiskey. 305,195; Aug. 8; Serial No. 336,218; published May 23, 1933. Class 49.

Dugan Brothers of New Jersey, Inc., Newark, N. J. Whole wheat and white flour products, etc. 305,246; Aug. 8; Serial No. 333,384; published May 23, 1933. Class 46.

Dunlap, E. H., Mfg. Co., to Dunlap Chemical Company, Como, Miss., successor. Colic and kidney cure for mules and horses. 40,765; renewed July 14, 1933.

Eastman Kodak Company, Rochester, N. Y. Light sensitive photographic paper. 305,222–3; Aug. 8; Serial Nos. 332,837–8; published May 23, 1933. Class 26.

Elisabeth Brewing Corporation, Elisabeth, N. J. Malt beverages. 305,258–9; Aug. 8; Serial Nos. 336,603–4; published May 23, 1933. Class 48.

Endura Manufacturing Co., Philadelphia, assignor, by mesne assignments, to Endura Manufacturing Corporation, Quakertown, Pa. Packing made from chemically-prepared paper. 92,881; renewed Aug. 8, 1933.

Erskine, Roy A., Cleveland, Ohio. Small power boats and rowboats. 305,277; Aug. 8; Serial No. 278,465; published May 23, 1933. Class 19.

Finch, Jos. S., & Company, New York, N. Y. Whiskey. 305,240; Aug. 8; Serial No. 334,214 published May 23, 1933. Class 49.

Flintkote Corporation, The, New York, N. Y. Bituminous emulsions and emulsion compounds. 305,188; Aug. 8; Serial No. 336,267; published May 23, 1933. Class 12.

Fortune Tobacco Company, The, New York, N. Y. Cigarettes. 305,262; Aug. 8; Serial No. 336,674; published May 23, 1933. Class 17.

Frank Pure Food Co., The, Milwaukee, Wis., assignor, by mesne assignments, to B. Heller & Company, Chicago, Ill. Gelatin preparation. 94,365; renewed Dec. 2, 1933.

Franklin Textile Corporation, New York, N. Y. Sheets, pillow-cases, and sheeting. 305,166; Aug. 8; Serial No. 335,775; published May 23, 1933. Class 42.

Franklin Textile Corporation, New York, N. Y. Cotton fabrics, towels, pillow cases, etc. 305,286; Aug. 8; Serial No. 326,010; published May 16, 1933. Class 42.

Garahan, Charles L., doing business as Glengarry Laboratory, New York, N. Y. Dental preparation for mouth wash. 305,256; Aug. 8; Serial No. 336,563; published May 23, 1933. Class 6.

Garden City Brewery, Chicago, Ill. Malt beverages. 305,266; Aug. 8; Serial No. 336,716; published May 23, 1933. Class 48.

Gautier Frères, Aigre, France. Distilled liquors. 305,260; Aug. 8; Serial No. 336,607; published May 23, 1933. Class 49.

General Sportcraft Co., New York, N. Y. Deck games. 305,194; Aug. 8; Serial No. 336,219; published May 23, 1933. Class 22.

Georgion, Antonio. (See Rossano, Antonio, assignor.)

Glengarry Laboratory. (See Garahan, Charles L.)

Goldenberg, Morton H., doing business as "Goldenberg's," Washington, D. C. Bed spreads, huck towels, Turkish towels, table cloths, etc. 305,276; Aug. 8; Serial No. 276,690; published May 23, 1933. Class 42.

Graton & Knight Company, Worcester, Mass. Leather machinery belting. 305,146; Aug. 8; Serial No. 335,162; published May 23, 1933. Class 35.

Greenbaum, J., Tanning Company, Chicago, Ill., and Milwaukee, Wis., Leather. 305,221; Aug. 8; Serial No. 332,715; published May 23, 1933. Class 1.

"H & W Company, The", Newark, N. J. Corset-waists. 94,632; renewed Dec 23, 1933.

Hecker-H-O Company, Inc., Buffalo, N. Y. Cereal food products. 305,167; Aug. 8; Serial No. 335,817; published May 23, 1933. Class 46.

Hecker-H-O Company, Inc., Buffalo, N. Y. Cereal food products. 305,169–72; Aug. 8; Serial Nos. 335,818–21; published May 23, 1933. Class 46.

Heddon's, James, Sons, Dowagiac, Mich. Fishing rods. 305,165; Aug. 8; Serial No. 335,780; published May 23, 1933. Class 22.

Heller, B., & Company. (See Frank Pure Food Co., The, assignor.)

Hilo Varnish Corporation. (See Moller & Schumann Co.)

Hoerber, J. L. Brewing Co., Chicago, Ill. Malt beverages, extracts and syrups therefor. 305,177; Aug. 8; Serial No. 336,415; published May 23, 1933. Class 48.

Hoffmann-La Roche Chemical Works, The, New York, N. Y., assignor to Hoffmann-La Roche, Inc., Nutley, N. J. Casein calcium. 94,282; renewed Nov. 25, 1933.

Homolka Corporation, assignor to Vita Bran Corporation, New York, N. Y. Sugar wafers. 305,275; Aug. 8; Serial No. 320,499; published May 16, 1933. Class 46.

Hyde, A. G., & Sons, assignor to Fred Butterfield & Co., Inc., New York, N. Y. Cotton piece goods. 92,221; renewed June 24, 1933.

Industrial Rayon Corporation, Cleveland, Ohio. Rayon piece goods. 305,226; Aug. 8; Serial No. 326,860; published May 23, 1933. Class 42.

Ivins', J. S., Son, Inc., Philadelphia, Pa. Cookies, cakes, and crackers. 305,144; Aug. 8; Serial No. 335,065; published May 23, 1933. Class 46.

Ivins', J. S., Son, Inc., Philadelphia, Pa. Cookies, cakes, and crackers. 305,150; Aug. 8; Serial No. 335,066; published May 23, 1933. Class 46.

Ivins', J. S., Son, Inc., Philadelphia, Pa. Cookies, cakes, and crackers. 305,151; Aug. 8; Serial No. 335,399; published May 23, 1933. Class 46.

Jelke, John F., Company, Chicago, Ill. Oleomargarine. 305,193; Aug. 8; Serial No. 336,220; published May 23, 1933. Class 46.

Johnson, Andrew, Knudtson, Limited, Hull, England. Fish. 305,162; Aug. 8; Serial No. 335,723; published May 16, 1933. Class 46.

Johnson, J. Oliver, Inc., Chicago, Ill. Fertiliser. 305,263; Aug. 8; Serial No. 336,681; published May 23, 1933. Class 10.

Keeley Brewing Company, Chicago, Ill. Beer, barley-stout, ale, etc. 41,575; renewed Dec. 1, 1933.

Keene Washing Products Co., Keene, N. H. General household cleaning preparation. 305,152; Aug. 8; Serial No. 335,236; published May 23, 1933. Class 4.

King Features Syndicate, Inc. (See Star Company, assignor.)

Knock 'Em Dead Co., to Knock 'Em Dead Company, Jersey City, N. J., successor. Insect-killer. 92,686; renewed July 22, 1933.

Knott, Wm. T., Company, Inc., New York, N. Y. Toiletries and cosmetics. 305,292; Aug. 8. Class 6.

Krause Medico Gesellschaft mit beschränkter Haftung, Munich, Germany. Dietetic foods made from apples. 305,251; Aug. 8; Serial No. 334,711; published May 16, 1933. Class 46.

Krick, Leonard B., doing business as Mador, Inc., Chicago, Ill. Brushless shaving cream and skin soap. 305,290; Aug. 8. Class 4.

Lamm, Berthold, Baltimore, Md. Pants, knickers, coats, etc. 305,242; Aug. 8; Serial No. 333,908; published May 9, 1933. Class 39.

Landers, Frary & Clark, New Britain, Conn. Choppers and cutters. 305,234; Aug. 8; Serial No. 331,866; published May 23, 1933. Class 28.

Larus & Brother Company, Incorporated, Richmond, Va. Cigarettes. 305,237; Aug. 8; Serial No. 334,439. Class 17.

Larus & Brother Company, Incorporated, Richmond, Va. Smoking tobacco. 305,257; Aug. 8; Serial No. 336,594; published May 23, 1933. Class 17.

Larus & Brother Company, Incorporated, Richmond, Va. Plug tobacco and cigarettes. 305,239; Aug. 8; Serial No. 334,363; published May 23, 1933. Class 17.

Lee, Samuel L. C., San Francisco, Calif. Shaving cream. 305,264; Aug. 8; Serial No. 336,683; published May 23, 1933. Class 4.

Levy, Benjamin, New York, N. Y. Maté tea. 305,149; Aug. 8; Serial No. 335,165; published May 16, 1933. Class 46.

Lindsey, Robert, Homestead, Pa. Preparation specially recommended for weak manhood. 305,294; Aug. 8. Class 6.

Lse. Pommery, Fils & Cie., to Societe Anonyme Champagne Pommery & Greno, Reims, France, successor. Champagne and sparkling wines. 92,460; renewed July 8, 1933.

Lse. Pommery, Fils & Cie., to Societe Anonyme Champagne Pommery & Greno, Reims, France, successor. Champagne and sparkling wines. 92,462–3; renewed July 8, 1933.

Lynchburg Foundry Company, Lynchburg, Va. Alloys and castings made therefrom. 305,228; Aug. 8; Serial No. 330,600; published May 23, 1933. Class 14.

Lyster Chemical Co., Lawrence, Mass., assignor, by mesne assignments, to Tennessee Eastman Corporation, Kingsport, Tenn. Preparation for preserving wood. 93,452; renewed Sept. 16, 1933.

Macomber & Ingraham, Inc., Boston, Mass. Gummed paper slips. 305,199; Aug. 8; Serial No. 336,188; published May 23, 1933. Class 22.

Mador, Inc. (See Krick, Leonard B.)

Marathon Razor Blade Co. Inc., Irvington, N. J. Safety razor blades. 305,154; Aug. 8; Serial No. 335,423; published May 23, 1933. Class 28.

Marblehead Lime Company, assignor to Marblehead Lime Company, Chicago, Ill. Lime. 92,245; renewed June 24, 1933.

Marinette Knitting Mills, Marinette, Wis. Knitted fabrics. 94,527; renewed Dec. 9, 1933.

Martini, L. M., Grape Products Co., Kingsburg, Calif. Grape syrup. 305,278; Aug. 8; Serial No. 299,278; published May 26, 1931. Class 45.

Massachusetts Institute of Technology, Cambridge, Mass. Periodicals, catalogues, printed books, etc. 305,211; Aug. 8; Serial No. 336,126; published May 16, 1933. Class 38.

Masterpiece Cigar Company, Grand Rapids, Mich. Cigars. 305,255; Aug. 8; Serial No. 336,537; published May 23, 1933. Class 17.

McEwan, William, & Co., Limited, Edinburgh, Scotland. Beer. 94,295; renewed Nov. 25, 1933.

Mdse. Mart, The. (See Cogley, James E.)

Melba Manufacturing Company, Chicago, Ill., assignor, by mesne assignments, to Vadsco Sales Corporation, Long Island City, N. Y. Toilet waters and perfumes. 94,193; renewed Nov. 11, 1933.

Millar, E. B., & Co., Chicago, Ill. Spices. 94,652; renewed Dec. 23, 1933.

Moller & Schumann Co., New York, to Hilo Varnish Corporation, Brooklyn, N. Y. Varnishes, wood fillers, stains, and enamels. 94,653; renewed Dec. 23, 1933.

Monday Light Chemical Company. (See D'Astolfo, Raffaele.)

Montgomery, V. E., Co., The, Cincinnati, Ohio. Coke. 305,235; Aug. 8; Serial No. 334,614; published May 23, 1933. Class 1.

Morrell, John, & Co., Ottumwa, Iowa. Cheese. 305,187; Aug. 8; Serial No. 336,203; published May 23, 1933. Class 46.

Moulton, George Spencer, & Company, Limited, London, England. Balls for games and tennis balls. 305,271; Aug. 8; Serial No. 336,779; published May 23, 1933. Class 22.

Multigraph Company. (See American Multigraph Sales Company, The, assignor.)

Multigraph Company, Wilmington, Del., and Cleveland, Ohio. Printing ink. 305,209; Aug. 8; Serial No. 336,047; published May 23, 1933. Class 11.

Musselwhite, Mrs. C. A., doing business as Willard Products Company, Greenville, N. C. Salve. 305,143; Aug. 8; Serial No. 335,155; published May 23, 1933. Class 6.

Nash, Vivian S., doing business as Mme. Vivian Laboratories, Detroit, Mich. Hair grower, scalp oil, etc. 305,279; Aug. 8; Serial No. 305,118; published May 23, 1933. Class 6.

Nassau Smelting and Refining Company, New York, N. Y. Type metals. 305,185; Aug. 8; Serial No. 336,331; published May 23, 1933. Class 14.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 94,311; renewed Nov. 25, 1933.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 94,313; renewed Nov. 25, 1933.

National Equipment Company. (See Confectioners' Machinery and Manufacturing Company.)

National Radiator Corporation, Johnstown, Pa. Boilers and water heaters. 305,236; Aug. 8; Serial No. 334,441; published May 23, 1933. Class 34.

New Era Manufacturing Co., by change of name, to New Era Shirt Company, St. Louis, Mo. Negligee shirts. 94,924; renewed Jan. 15, 1934.

Nubian Manufacturing Company Limited, London, England. Blacking for use on leather. 93,554; renewed Sept. 23, 1933.

Oshkosh Brewing Co., The, Oshkosh, Wis. Beer. 40,988; renewed Aug. 25, 1933.

Pacific Beverage Co., San Diego, Calif. Maltless beverages. 305,212; Aug. 8; Serial No. 336,128; published May 23, 1933. Class 45.

Parker Brothers, Inc., Salem, Mass. Games. 40,889; renewed Aug. 11, 1933.

Pastival, Inc. (See Canonne, Henry, assignor.)

Peggy Gray Holliday, Buffalo, N. Y. Candies. 305,283; Aug. 8; Serial No. 315,636; published May 23, 1933. Class 46.

Pennsylvania Grocers Association, Philadelphia, Pa. Canned vegetables. 305,181; Aug. 8; Serial No. 336,370; published May 23, 1933. Class 46.

Perry, Saul H., doing business as Pickwick Ice Cream Company, Stamford, Conn. Ice cream. 305,282; Aug. 8; Serial No. 314,960; published June 21, 1932. Class 46.

Petrocelli, Joseph, & Company, assignor, by mesne assignments, to Cellas', Inc., New York, N. Y. Still straight red table-wine. 94,747; renewed Dec. 30, 1933.

Pickwick Ice Cream Company. (See Perry, Saul H.)

Prescott, J. L., & Co., New York, N. Y., assignor to J. L. Prescott Company, Passaic, N. J. Stove-polish. 41,375; renewed Oct. 27, 1933.

Price, William B., Frederick, Md., to Price Fire & Water Proofing Co., Poughkeepsie, N. Y., successor. Fire-proofing or fire-resisting preparation. 40,615; renewed June 16, 1933.

RCA Victor Company, Inc., Camden, N. J. Radio receiving sets, kits for radio receiving sets, etc. 305,287; Aug. 8. Class 21.

Ray, Charles, doing business as Charles Ray Co., Woburn, Mass. Ice cream. 305,249; Aug. 8; Serial No. 333,011; published May 23, 1933. Class 46.

Read Printing Company, The, New York, N. Y. Jig-saw puzzle. 305,175; Aug. 8; Serial No. 336,455; published May 23, 1933. Class 22.

Red Rosin Products Co., Montgomery, Ala., assignor, by mesne assignments, to Vacher-Green, Inc., New Orleans, La. Preparation for banishing mosquitoes, etc. 94 563; renewed Dec. 16, 1933.

Regalia, Jean, et Cie. (See Tonkin Distributing Company.)

Renault, L. N., & Sons, Inc., Egg Harbor City, N. J. Wines. 305,203; Aug. 8; Serial No. 336,182; published May 23, 1933. Class 47.

Reynolds Metals Company, New York, N. Y. Metallic foil for building purposes. 305,230; Aug. 8; Serial No. 330,710; published May 16, 1933. Class 12.

Rice-Stix Dry Goods Co., St. Louis, Mo. Knitted, netted, and woven shoulder scarfs and shawls. 94,486; renewed Dec. 9, 1933.

Roach, W. R., & Co., Hart, to W. R. Roach & Co., Grand Rapids, Mich. Canned fruits and vegetables. 41,402; renewed Nov. 3, 1933.

Roberts, Weldon, Rubber Co., Newark, N. J. Rubber erasers. 305,293; Aug. 8. Class 37.

Rockford Watch Co. Ltd., The, Rockford, to The Rockford Watch Co. Ltd., Elgin, Ill. Watch-movements. 93,205; renewed Aug. 26, 1933.

Rosenfeld, Joseph E., Council Bluffs, Iowa. Tonic malt beverage. 92,718; renewed July 22, 1933.

Rossano, Antonio, assignor, by mesne assignments, to Parisis J. Georgion, Boston, Mass. Olive-oil. 93,910; renewed Oct. 21, 1933.

Russell Playing Card Co., Milltown, N. J., and New York, N. Y., assignor to The United States Playing Card Company, East Norwood, Cincinnati, Ohio. Playing-cards. 94,671; renewed Dec. 23, 1933.

St. Louis Coffee & Spice Mills, St. Louis, Mo. Coffee. 92,375; renewed July 1, 1933.

Saks & Company, New York, N. Y. Handbags, suitcases, etc. 305,168; Aug. 8; Serial No. 335,790; published May 23, 1933. Class 3.

Sanborn, George W., & Son, Astoria, Oreg., assignor to Alaska Pacific Salmon Corporation, Seattle, Wash. Canned salmon. 93,118; renewed Aug. 19, 1933.

Sayman, Thomas M., St. Louis, Mo. Talcum powder. 92,835; renewed July 29, 1933.

Sayman, Thomas M., St. Louis, Mo. Complexion powder. 93,472; renewed Sept. 16, 1933.

Schiffmann, R., Co., Los Angeles, Calif. Nasal balm. 305,220; Aug. 8; Serial No. 335,890; published May 23, 1933. Class 6.

Schleicher, Carl, & Schüll, Duren, Germany, assignor to Carl Schleicher & Schull Co., New York, N. Y. Filtering-papers. 94,328; renewed Nov. 25, 1933.

Schumann China Corporation, New York, N. Y. Chinaware. 305,281; Aug. 8; Serial No. 313,938; published May 16, 1933. Class 30.

Sears, Roebuck and Co., Chicago, Ill. Piece goods of silk and wool tweed, textile carpets, and lace curtains. 305,159; Aug. 8; Serial No. 335,698; published May 23, 1933. Class 42.

Sears, Roebuck and Co., Chicago, Ill. Utility cloths. 305,261; Aug. 8; Serial No. 336,624; published May 23, 1933. Class 29.

Sendurt Laboratories, Inc., Tulsa, Okla. Skin cleansing creams. 305,202; Aug. 8; Serial No. 336,134; published May 23, 1933. Class 6.

Sichel, H., Söhne, Mains, Germany. Wines. 305,191–2; Aug. 8; Serial Nos. 336,232–3; published May 23, 1933. Class 47.

Silver Seal Dairy Products Company, Philadelphia, Pa. Dairy products. 305,229; Aug. 8; Serial No. 330,434; published May 16, 1933. Class 46.

Simplex Piston Ring Co. of America, Inc., The, Cleveland, Ohio. Piston pins. 305,248; Aug. 8; Serial No. 333,130; published May 23, 1933. Class 23.

Societe Anonyme Champagne Pommery & Greno. (See Lee, Pommery, Fils & Cie.)

Soda Straw Mfg. Co., Inc., Newark, N. J. Paper straws. 305,241; Aug. 8; Serial No. 334,125; published May 23, 1933. Class 50.

Southern Wood Preserving Company, Atlanta and East Point, Ga. Highway guard fences, posts, guard rails, and guard fence timbers. 305,153; Aug. 8; Serial No. 335,428; published May 16, 1933. Class 12.

Spencer, Dr. John H., doing business as Dr. J. H. Spencer Co., Vicksburg, Miss. Remedy for rheumatism and neuralgia. 92,837; renewed July 29, 1933.

Standard Oil Company, Richmond, Calif., assignor to Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Lubricating oils and greases, etc. 94,497; renewed Dec. 9, 1933.

Star Company, assignor to King Features Syndicate, Inc., New York, N. Y. Newspaper-section. 94,215; renewed Nov. 11, 1933.

Stonewall Cotton Mills, Stonewall, Miss. Cotton goods. 94,690; renewed Dec. 23, 1933.

Strohmeyer & Arpe Company, New York, N. Y. Mineral wax. 94,503; renewed Dec. 9, 1933.

Stubbs, Robert C., assignor to Marie M. Stubbs, Dallas, Tex. Concrete constructions, street and sidewalk paving and walls. 94,126; renewed Nov. 4, 1933.

Stuhmer, Geo. F., & Company, Brooklyn, N. Y. Bread (rye bread and pumpernickel). 305,252–3; Aug. 8; Serial Nos. 334,777–8; published May 16, 1933. Class 46.

Stuhmer, Geo. F., & Company, Brooklyn and New York, N. Y. Bread, rye bread, and pumpernickel. 305,190; Aug. 8; Serial No. 336,236; published May 23, 1933. Class 46.

Sturtevant, B. F., Company, Boston, Mass. Fans and blowers. 305,272; Aug. 8; Serial No. 336,800; published May 23, 1933. Class 34.

Stylepark Hats, Inc., Philadelphia, Pa. Men's hats. 305,148; Aug. 8; Serial No. 335,371; published May 9, 1933. Class 39.

Sullo, S., Extract Company, Boston, Mass. Non-alcoholic, maltless, concentrated extract of fruit. 305,204; Aug. 8; Serial No. 335,895; published May 23, 1933. Class 45.

Taylor Forge & Pipe Works, Cicero, Ill. Metal pipe and pipe fittings. 305,161; Aug. 8; Serial No. 335,750; published May 23, 1933. Class 13.

Tennessee Eastman Corporation. (See Lyster Chemical Co., assignor.)

Tichnor Brothers, Inc., Cambridge, Mass. Picture and jig-saw puzzles. 305,179; Aug. 8; Serial No. 336,409; published May 23, 1933. Class 22.

Tichnor Brothers, Inc., Cambridge, Mass. Picture and jig-saw puzzles. 305,184; Aug. 8; Serial No. 336,338; published May 23, 1933. Class 22.

Tonkin Distributing Company, doing business as Jean Regalia et Cie, San Francisco, Calif. Filet of anchovies, olives, etc. 305,274; Aug. 8; Serial No. 318,541; published May 23, 1933. Class 46.

2 in 1-Shinola-Bixby Corporation. (See American Chemical Manufacturing & Mining Co., assignor.)

2 in 1-Shinola-Bixby Corporation. (See Dalley, F. F., Co. of Hamilton, Limited, The, assignor.)

Underwood Elliott Fisher Company, New York, N. Y. Multiple-key-operated computing machines, etc. 305,232; Aug. 8; Serial No. 331,271; published May 23, 1933. Class 26.

Unioh Asbestos & Rubber Company, Chicago, Ill. Asbestos steam pipe covering. 305,174; Aug. 8; Serial No. 336,471; published May 23, 1933. Class 12.

Union Bag and Paper Company, The, by consolidation to Union Bag & Paper Corporation, Jersey City, N. J., and New York, N. Y. Paper bags. 94,336; renewed Nov. 25, 1933.

U. S. Industrial Alcohol Co., New York, N. Y. Carbon-remover, engine-cleanser, etc. 94,228; renewed Nov. 11, 1933.

United States Playing Card Company, The. (See Russell Playing Card Co., assignor.)

Vacher-Green, Inc. (See Red Rosin Products Co., assignor.)

Vadsco Sales Corporation. (See Melba Manufacturing Company, assignor.)

Vincennes Packing Corporation, Vincennes, Ind. Canned tomato juice, pork and beans, hominy, etc. 305,213; Aug. 8; Serial No. 332,052; published May 33, 1933. Class 46.

Vita Bran Corporation. (See Homolka Corporation, assignor.)

Vivian, Mme., Laboratories. (See Nash, Vivian S.)

Vortex Cup Company, Chicago, Ill. Paper cups. 305,217; Aug. 8; Serial No. 335,839; published May 23, 1933. Class 2.

Vulkan-Werke Gesellschaft für Brauerei-Bedarf m. b. H., to Vulkan-Werke Aktiengesellschaft Für Brauereibedarf, Berlin, Germany, successor. Filtering apparatus, refrigerating systems, and filter masses for filter-presses. 94,408; renewed Dec. 2, 1933.

Walker-Gordon Laboratory Company, Inc., New York, N. Y. Cow manure base. 305,178; Aug. 8; Serial No. 336,412; published May 23, 1933. Class 10.

Wall-Rogalsky Milling Company, The, McPherson, Kans. Self-rising flour. 305,147; Aug. 8; Serial No. 335,408; published May 23, 1933. Class 46.

West Bend Aluminum Company, West Bend, Wis. Base metal cooking hollow ware. 305,163; Aug. 8; Serial No. 335,753; published May 23, 1933. Class 13.

West Bend Aluminum Company, West Bend, Wis. Coffee making percolators. 305,164; Aug. 8; Serial No. 335,752; published May 23, 1933. Class 13.

Willard Products Company. (See Musselwhite, Mrs. C. A.)

Williams Bakery, The, Scranton, Pa. Cake confection. 305,145; Aug. 8; Serial No. 335,264; published May 16, 1933. Class 46.

Wilson, George C., Tyrone, Pa. Perfumery. 94,706; renewed Dec. 23, 1933.

Wood, Thomas, & Sons, Inc., Montclair, N. J. Fertilizers. 305,216; Aug. 8; Serial No. 332,669; published May 9, 1933. Class 10.

Zenith Novelty Co., Inc., New York, N. Y. Food for fish. 305,198; Aug. 8; Serial No. 336,200; published May 16, 1933. Class 46.

LIST OF REGISTRANTS OF LABELS

Baltimore Markets, Inc., Philadelphia, Pa. Baltimore Markets—Orange Pekoe. For Tea. 42,495; Aug. 8.

Berkshire & Becket Silk Co. (See Collingbourne Mills Inc.)

Bodley, Homer D., and Grace A., doing business as Zipp-O Soap Company, Canandaigua, N. Y. Zipp-O. Dirt Slips When Zipp-O Zips. For Soap Compound. 42,496; Aug. 8.

Campbell Paper Box Company, South Bend, Ind. Creamery Butter. For Creamery Butter. 42,497; Aug. 8.

Campbell Paper Box Company, South Bend, Ind. Quality Brand Creamery Butter. For Creamery Butter. 42,498; Aug. 8.

Campbell Paper Box Company, South Bend, Ind. Creamery Butter. For Butter. 42,499; Aug. 8.

Campbell Paper Box Company, South Bend, Ind. Mi-Best Creamery Butter. For Creamery Butter. 42,500; Aug. 8.

Campbell Paper Box Company, South Bend, Ind. Nu-favor Creamery Butter. For Creamery Butter. 42,501; Aug. 8.

Collingbourne Mills Inc., doing business as Dexter, Virginia Snow Studios, Jap Silk Co., and Berkshire & Becket Silk Co., Elgin, Ill. World's Fair Pillow Outfit—Article V. S. 80—Design 2591. For Pillow Outfits. 42,502; Aug. 8.

Collins, J. N., Company, Philadelphia, Pa. Honey Scotch. For Honey Scotch Candy. 42,503; Aug. 8.

Collins, J. N., Company, Philadelphia, Pa. Walnettos. For Walnut-Flavored Candy. 42,504; Aug. 8.

Cream City Brewing Company, Milwaukee, Wis. Famous Milwaukee Pilsener. For Beer. 42,505; Aug. 8.

Davenport, D. P., doing business as The Davenport Company, Americus, Ga. Oca-Line. For a Medicinal Preparation. 42,506; Aug. 8.

Dexter. (See Collingbourne Mills Inc.)

Famous Products Company. (See Neumann, Morton G.)

Food Guild Stores. (See Jordan Stevens Co.)

Galloway Lithographing Co., San Francisco, Calif. Bird Seed. For Bird Seed. 42,507; Aug. 8.

Gunther Brewing Co. Inc., Baltimore, Md. Gunther's Beer. For Beer. 42,508; Aug. 8.

Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Ten Junket Tablets. For Tablets for Making Perfect Milk Foods for Invalids and Children. 42,509; Aug. 8.

Jap Silk Co. (See Collingbourne Mills Inc.)

Jordan, Stevens Co., doing business as Food Guild Stores, Minneapolis, Minn. Food Guild. For Stringless Beans. 42,510; Aug. 8.

Jordan Stevens Co., doing business as Food Guild Stores, Minneapolis, Minn. Food Guild. For Asparagus Tips. 42,511; Aug. 8.

K. B. Chocolate Company, Bay City, Mich. Trueworth. For Cocoa. 42,512; Aug. 8.

Meyer, Frank C., Co., Inc., Brooklyn, N. Y. Theo. Kempe Shoe Corp. New York Smart Footwear. For Footwear. 42,513; Aug. 8.

Morrell, John, & Co., Ottumwa, Iowa. Morrell's Allrite Brand. For Shortening. 42,514; Aug. 8.

Neumann, Morton G., doing business as Famous Products Company, Chicago, Ill. Brown Skin Beauty Face Powder. For Face Powder. 42,515; Aug. 8.

Niemiec, Harriette E., Chicago, Ill. Rejuvenarium. For Hand Lotion for Bleaching and Nourishing the Skin. 52,516; Aug. 8.

Nu-Game Manufacturing Company. (See Sears, Clarence M.)

Phillips, Emanuel W., doing business as Phillips Cheese Company, San Antonio, Tex. Brother Bill. For Butter. 42,517; Aug. 8.

Proteo Foods, Incorporated, Chicago, Ill. Proteo Bread for Diets Restricted in Starches & Sugars. For Bread. 52,518; Aug. 8.

Schotte Coffee & Spice Mills, Inc., Jackson, Miss. Masterpiece. For Coffee. 42,519; Aug. 8.

Scram Laboratories, Inc., San Francisco, Calif. Scram. For Aluminum and Household Cleanser. 42,520; Aug. 8.

Sears, Clarence M., doing business as Nu-Game Manufacturing Company, Shelton, Conn. Pen the Fox. For Game. 42,521; Aug. 8.

Shapiro, Joseph, Co., Inc., Philadelphia, Pa. Jig Silhouette. For Puzzles. 42,522; Aug. 8.

St. Clair, A. R., Denver, Colo. Guaranteed Best Quality Poultry. For Poultry. 42,523; Aug. 8.

Super Blade Corporation, Boston, Mass. Super Blue Blade. For Razor Blades. 42,524; Aug. 8.

Virginia Snow Studios. (See Collingbourne Mills Inc.)

Washburn Grape Growers Ass'n, Washburn, Mo. Washburn Concords. For Grapes. 42,525; Aug. 8.

Weaver, C. H., & Co., Chicago, Ill. Three Melon Brand. For Cantaloup Melons. 42,526; Aug. 8.

World Wide Gum Co., Boston, Mass. Sea Raiders. For Chewing Gum. 42,527; Aug. 8.

Zipp-O Soap Company. (See Bodley, Homer D., and G. A.)

LIST OF REGISTRANTS OF PRINTS

American Mine Door Company, The, Canton, Ohio. Latticed Steak. For Two Minute Steak Machines. 14,294; Aug. 8.

Goodrich, B. F., Rubber Company, The, Akron, Ohio. Bang!—Then I Lost All Control of My Car (Ad No. GBC-316). For Rubber Tires. 14,295; Aug. 8.

Lachryite Company, Chicago, Ill. Price List of Tear Gas Protective Devices. For Tear Gas Products and Devices. 14,296; Aug. 8.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coke. V. E. Montgomery Co. 305,235; Aug. 8; Serial No. 334,614; published May 23, 1933.

Leather. J. Greenebaum Tanning Company. 305,221; Aug. 8; Serial No. 332,715; published May 23, 1933.

CLASS 2

Bags, Paper. Union Bag and Paper Company. 94,336; renewed Nov. 25, 1933.

Cabinets, chests and boxes, Paper and cardboard. Decorative Cabinet Corp. 305,208; Aug. 8; Serial No. 335,997; published May 23, 1933.

Cups, Paper. Vortex Cup Company. 305,217; Aug. 8; Serial No. 335,839; published May 23, 1933.

Receptacles. American Can Company. 92,935; renewed Aug. 12, 1933.

CLASS 3

Handbags, suitcases, etc. Saks & Company. 305,168; Aug. 8; Serial No. 335,790; published May 23, 1933.

CLASS 4

Blacking for use on leather. Nubian Manufacturing Company Limited. 93,554; renewed Sept. 23, 1933.

Cleaning preparation, General household. Keene Washing Products Co. 305,152; Aug. 8; Serial No. 335,236; published May 23, 1933.

Detergents and conditioning preparations. Deutsche Hydrierwerke A.-G. 305,227; Aug. 8; Serial No. 329,789; published May 23, 1933.

Polish paste, Shoe. F. F. Dalley Co. of Hamilton, Limited. 41,374; renewed Oct. 27, 1933.

Polish, Shoe. American Chemical Manufacturing & Mining Co. 41,082; renewed Sept. 8, 1933.

Polish, Stove. J. L. Prescott & Co. 41,375; renewed Oct. 27, 1933.

Shaving cream. S. L. C. Lee. 305,264; Aug. 8; Serial No. 336,683; published May 23, 1933.

Shaving cream and skin soap, Brushless. L. B. Krick. 305,290; Aug. 8.

CLASS 5

Cement, Waterproof. J. W. Canter. 305,289; Aug. 8.

CLASS 6

Calcium chloride and compounds derived therefrom. Columbia Alkali Corporation. 305,219; Aug. 8; Serial No. 335,852; published May 23, 1933.

Carbon remover, engine-cleanser, etc. U. S. Industrial Alcohol Co. 94,228; renewed Nov. 11, 1933.

Casein calcium. Hoffmann-La Roche Chemical Works. 94,282; renewed Nov. 25, 1933.

Chemical preparation. E. D'Astolfo. 305,205; Aug. 8; Serial No. 335,930; published May 23, 1933.

Creams, Skin cleansing. Sendurt Laboratories, Inc. 305,202; Aug. 8; Serial No. 336,184; published May 23, 1933.

Cure for mules and horses, Colic and kidney. E. M. Dunlap Mfg. Co. 40,765; renewed July 14, 1933.

Dental preparation for mouth wash. C. L. Garahan. 305,256; Aug. 8; Serial No. 336,563; published May 23, 1933.

Fireproofing or fire-resisting preparation. W. B. Price. 40,615; renewed June 16, 1933.

Hair grower, scalp oil, hair pomade, etc. V. S. Nash. 305,279; Aug. 8; Serial No. 305,118; published May 23, 1933.

Insect-killer. Knock 'Em Dead Co. 92,686; renewed July 22, 1933.

Nasal balm. R. Schiffmann Co. 305,220; Aug. 8; Serial No. 335,890; published May 23, 1933.

Pastils for the treatment of maladies of the respiratory organs. H. Canonne. 41,487; renewed Nov. 17, 1933.

Perfumery. G. C. Wilson. 94,706; renewed Dec. 23, 1933.

Powder, Complexion. T. M. Sayman. 93,472; renewed Sept. 16, 1933.

Preparation for banishing mosquitoes, etc. Red Rosin Products Co. 94,563; renewed Dec. 16, 1933.

Preparation for preserving wood. Lyster Chemical Co. 93,452; renewed Sept. 16, 1933.

Preparation specially recommended for weak manhood. R. Lindsey. 305,294; Aug. 8.
Remedy for rheumatism and neuralgia. Dr. John H. Spencer. 92,837; renewed July 29, 1933.
Salve. Mrs. C. A. Musselwhite. 305,143; Aug. 8; Serial No. 335,155; published May 23, 1933.
Solvents. Carbide and Carbon Chemicals Corporation. 305,207; Aug. 8; Serial No. 335,990; published May 23, 1933.
Sulfate of iron. American Steel & Wire Co. of New Jersey. 94,573; renewed Dec. 23, 1933.
Talcum powder. T. M. Sayman. 92,835; renewed July 29, 1933.
Toilet waters and perfumes. Melba Manufacturing Company. 94,193; renewed Nov. 11, 1933.
Toiletries and cosmetics. Wm. T. Knott Company. 305,292; Aug. 8.
Pipes. Continental Briar Pipe Co. 305,233; Aug. 8; Serial No. 331,612; published May 23, 1933.

CLASS 10

Fertilizer. J. Oliver Johnson, Inc. 305,263; Aug. 8; Serial No. 336,681; published May 23, 1933.
Fertilizers. Thomas Wood & Sons, Inc. 305,216; Aug. 8; Serial No. 332,669; published May 9, 1933.
Manure base, Cow. Walker-Gordon Laboratory Company. 305,178; Aug. 8; Serial No. 336,412; published May 23, 1933.

CLASS 11

Carbon paper and typewriter ribbons. Ault & Wiborg Company. 305,291; Aug. 8.
Carbon paper, typewriter ribbons, inks. Ault & Wiborg Company. 305,218; Aug. 8; Serial No. 335,843; published May 23, 1933.
Ink, Printing. Ault & Wiborg Company. 305,265; Aug. 8; Serial No. 336,707; published May 23, 1933.
Ink, Printing. Multigraph Company. 305,209; Aug. 8; Serial No. 336,047; published May 23, 1933.

CLASS 12

Asbestos steam pipe covering. Union Asbestos & Rubber Company. 305,174; Aug. 8; Serial No. 336,471; published May 23, 1933.
Asphalt, asphalt binders, asphaltic emulsions, etc. American Bitumuls Company. 305,285; Aug. 8; Serial No. 325,740; published May 23, 1933.
Concrete constructions, street and sidewalk paving, and walls. R. C. Stubbs. 94,126; renewed Nov. 4, 1933.
Emulsions and emulsion compounds, Bituminous. Flintkote Corporation. 305,188; Aug. 8; Serial No. 336,267; published May 23, 1933.
Fences, posts, rails, and fence timbers, Highway guard. Southern Wood Preserving Company. 305,153; Aug. 8; Serial No. 335,428; published May 16, 1933.
Foil for building purposes, Metallic. Reynolds Metals Company. 305,230; Aug. 8; Serial No. 330,710; published May 16, 1933.
Lime. Marblehead Lime Company. 92,245; renewed June 24, 1933.

CLASS 13

Hollow ware, Base metal cooking. West Bend Aluminum Company. 305,163; Aug. 8; Serial No. 335,753.
Metal fence posts. American Steel and Wire Company of New Jersey. 305,295; Aug. 8.
Percolators, Coffee making. West Bend Aluminum Company. 305,164; Aug. 8; Serial No. 335,752; published May 23, 1933.
Pipe and pipe fittings, Metal. Taylor Forge & Pipe Works. 305,161; Aug. 8; Serial No. 335,750; published May 23, 1933.
Screen wire-cloth. American Wire Fabrics Company. 93,658; renewed Oct. 14, 1933.

CLASS 14

Alloys and castings made therefrom. Lynchburg Foundry Company. 305,228; Aug. 8; Serial No. 330,600; published May 23, 1933.
Iron and steel sheets and plates, etc. American Sheet and Tin Plate Company. 94,572; renewed Dec. 23, 1933.
Steel, Tool. Crucible Steel Company of America. 40,841; renewed July 28, 1933.
Type metals. Nassau Smelting and Refining Company. 305,185; Aug. 8; Serial No. 336,331; published May 23, 1933.

CLASS 15

Oils and greases, etc., Lubricating. Standard Oil Company. 94,497; renewed Dec. 9, 1933.
Wax, Mineral. Strohmeyer & Arpe Company. 94,503; renewed Dec. 9, 1933.

CLASS 16

Kalsomine. C. Barrell. 305,284; Aug. 8; Serial No. 316,627; published June 28, 1932.
Varnishes, wood filler, stains, and enamels. Moller & Schumann Co. 94,653; renewed Dec. 23, 1933.

CLASS 17

Cigarettes. Abdulla & Company. 41,614; renewed Dec. 8, 1933.
Cigarettes. Fortune Tobacco Company. 305,262; Aug. 8; Serial No. 336,674; published May 23, 1933.
Cigarettes. Larus & Brother Company. 305,237; Aug. 8; Serial No. 334,439; published May 23, 1933.
Cigarettes, tobacco and snuff. Brown & Williamson Tobacco Corporation. 305,267; Aug. 8; Serial No. 336,750; published May 23, 1933.
Cigarettes, tobacco and snuff. Brown & Williamson Tobacco Corporation. 305,270; Aug. 8; Serial No. 336,754; published May 23, 1933.
Cigars. Masterpiece Cigar Company. 305,255; Aug. 8; Serial No. 336,537; published May 23, 1933.
Pipes, Corn cob. J. E. Cogley. 305,245; Aug. 8; Serial No. 333,650; published May 23, 1933.
Tobacco. Axton-Fisher Tobacco Co. 305,186; Aug. 8; Serial No. 336,315; published May 23, 1933.
Tobacco. Brown & Williamson Tobacco Corporation. 305,268–9; Aug. 8; Serial Nos. 336,752–3; published May 23, 1933.
Tobacco. Larus & Brother Company. 305,257; Aug. 8; Serial No. 336,594; published May 23, 1933.
Tobacco and cigarettes. Larus & Brother Company. 305,239; Aug. 8; Serial No. 334,363; published May 23, 1933.

CLASS 19

Boats and rowboats, Small power. R. A. Erskine. 305,277; Aug. 8; Serial No. 278,465; published May 23, 1933.

CLASS 21

Radio receiving sets, kits for radio receiving sets, etc. RCA Victor Company. 305,287; Aug. 8.
Spark-plugs. Champion Ignition Co. 94,060; renewed Nov. 4, 1933.

CLASS 22

Balls for games and tennis balls. George Spencer Moulton & Company. 305,271; Aug. 8; Serial No. 336,779; published May 23, 1933.
Cards, Playing. Russell Playing Card Co. 94,671; renewed Dec. 23, 1933.
Fishing rods. James Heddon & Sons. 305,165; Aug. 8; Serial No. 335,780; published May 23, 1933.
Game, Number. Cleveland Games Company. 305,201; Aug. 8; Serial No. 336,154; published May 23, 1933.
Games. Parker Brothers, Inc. 40,889; renewed Aug. 11, 1933.
Games, Deck. General Sportcraft Co. 305,194; Aug. 8; Serial No. 336,219; published May 23, 1933.
Gummed paper slips. Macomber & Ingraham, Inc. 305,199; Aug. 8; Serial No. 336,188; published May 23, 1933.
Puzzle, Jig-saw. Read Printing Company. 305,175; Aug. 8; Serial No. 336,455; published May 23, 1933.
Puzzles, Picture and jig-saw. Tichnor Brothers, Inc. 305,179; Aug. 8; Serial No. 336,409; published May 23, 1933.
Puzzles, Picture and jig-saw. Tichnor Brothers, Inc. 305,184; Aug. 8; Serial No. 336,338; published May 23, 1933.

CLASS 23

Choppers and cutters. Landers, Frary & Clark. 305,234; Aug. 8; Serial No. 331,866; published May 23, 1933.
Confectionery coating machine. Confectioners' Machinery and Manufacturing Company. 41,797; renewed Dec. 29, 1933.
Cutlery, machinery, tools, and parts thereof, etc. American Optical Company. 92,387; renewed July 8, 1933
Gears, Timing. Borg-Warner Corporation. 305,243; Aug. 8; Serial No. 333,756; published May 23, 1933.
Machinery, tools and parts thereof, etc. American Multigraph Sales Company. 92,385; renewed July 8, 1933.
Molding or printing and starch machines. Confectioners' Machinery and Manufacturing Company. 41,796; renewed Dec. 29, 1933.
Piston pins. Simplex Piston Ring Co. of America, Inc. 305,248; Aug. 8; Serial No. 333,130; published May 23, 1933.
Razor blades, Safety. Marathon Razor Blade Co. Inc. 305,154; Aug. 8; Serial No. 335,423; published May 23, 1933.
Razors and blades, Safety. American Safety Razor Corporation. 305,180; Aug. 8; Serial No. 336,388; published May 23, 1933.
Saws. E. C. Atkins and Company. 93,149; renewed Aug. 26, 1933.
Sweepers and parts thereof, Carpet. Bissell Carpet Sweeper Co. 305,183; Aug. 8; Serial No. 336,346; published May 23, 1933.

CLASS 26

Computing machines, Multiplex key-operated, etc. Underwood Elliott Fisher Company. 305,232; Aug. 8; Serial No. 331,271; published May 23, 1933.
Measuring and scientific appliances. American Optical Company. 92,386; renewed July 8, 1933.
Photographic paper, Light sensitive. Eastman Kodak Company. 305,222–3; Aug. 8; Serial Nos. 332,837–8; published May 23, 1933.

CLASS 27

Watch-movements. Rockford Watch Co. Ltd. 93,205; renewed Aug. 26, 1933.

CLASS 29

Utility cloths. Sears, Roebuck and Co. 305,261; Aug. 8; Serial No. 336,624; published May 23, 1933.

CLASS 30

Chinaware. Schumann China Corporation. 305,281; Aug. 8; Serial No. 318,938; published May 16, 1933.

CLASS 31

Filtering apparatus, refrigerating systems, and filter masses or material for filter-presses. Vulkan-Werke Gesellschaft für Brauerei-Bedarf m. b. H. 94,408; renewed Dec. 2, 1933.

CLASS 32

Mirrors, mirror cabinets, mirror valances, etc. F. H. Braecklein. 305,206; Aug. 8; Serial No. 335,955; published May 23, 1933.

CLASS 34

Boilers and water heaters. National Radiator Corporation. 305,236; Aug. 8; Serial No. 334,441; published May 23, 1933.
Fans and blowers. B. F. Sturtevant Company. 305,272; Aug. 8; Serial No. 336,800; published May 23, 1933.
Stoves and ranges. Anchor Stove and Range Company. 40,837; renewed July 28, 1933.

CLASS 35

Belting, Leather machinery. Graton & Knight Company. 305,146; Aug. 8; Serial No. 335,162; published May 23, 1933.
Packing made from chemically-prepared paper. Endura Manufacturing Co. 92,881; renewed Aug. 5, 1933.

CLASS 37

Erasers, Rubber. Weldon Roberts Rubber Co. 305,293; Aug. 8.
Papers, Filtering. Carl Schleicher & Schüll. 94,328; renewed Nov. 25, 1933.

CLASS 38

Newspaper-section. Star Company. 94,215; renewed Nov. 11, 1933.
Periodicals, catalogues, printed books, etc. Massachusetts Institute of Technology. 305,211; Aug. 8; Serial No. 336,126; published May 16, 1933.

CLASS 39

Corset-waists. "H & W Company." 94,632; renewed Dec. 23, 1933.
Hats, Men's. Stylepark Hats, Inc. 305,148; Aug. 8; Serial No. 335,371; published May 9, 1933.
Pants, knickers, coats, etc. B. Lamm. 305,242; Aug. 8; Serial No. 333,908; published May 9, 1933.
Shirts. New Era Manufacturing Co. 94,924; renewed Jan. 13, 1934.

CLASS 42

Bed spreads, towels, table cloths, etc. M. H. Goldenberg. 305,276; Aug. 8; Serial No. 276,690; published May 23, 1933.
Cotton fabrics, towels, pillow cases, etc. Franklin Textile Corporation. 305,236; Aug. 8; Serial No. 326,010; published May 16, 1933.
Cotton goods. Stonewall Cotton Mills. 94,690; renewed Dec. 23, 1933.
Cotton piece goods. M. C. D. Borden & Sons, Inc. 305,178; Aug. 8; Serial No. 336,402; published May 16, 1933.
Cotton piece goods. A. G. Hyde & Sons. 92,221; renewed June 24, 1933.
Knitted fabrics. Marinette Knitting Mills. 94,527; renewed Dec. 9, 1933.
Organdy. Aktiengesellschaft Cilander. 305,155; Aug. 8; Serial No. 335,571; published May 23, 1933.
Piece goods, carpets and curtains. Sears, Roebuck and Co. 305,159; Aug. 8; Serial No. 335,698; published May 23, 1933.
Rayon piece goods. Industrial Rayon Corporation. 305,226; Aug. 8; Serial No. 326,860; published May 23, 1933.
Rugs, Textile. Beattie Manufacturing Company. 92,035; renewed June 17, 1933.
Scarfs and shawls, Knitted, netted, and woven shoulder. Rice-Stix Dry Goods Co. 94,486; renewed Dec. 9, 1933.
Sheets, pillow-cases, and sheeting. Franklin Textile Corporation. 305,166; Aug. 8; Serial No. 335,775; published May 23, 1933.
Silk piece goods. Cohn Hall Marx Co. 305,247; Aug. 8; Serial No. 333,381; published May 23, 1933.

CLASS 45

Beverage, Tonic malt. J. E. Rosenfeld. 92,718; renewed July 22, 1933.
Extract for making soft drinks, Maltless. S. Sullo Extract Company. 305,204; Aug. 8; Serial No. 335,895; published May 23, 1933.
Grape syrup, Nonalcoholic. L. M. Martini Grape Products Co. 305,278; Aug. 8; Serial No. 299,273; published May 26, 1931.
Maltless beverages. Pacific Beverage Co. 305,212; Aug. 8; Serial No. 336,128; published May 23, 1933.

CLASS 46

Anchovies, olives, etc., Filet of. Tonkin Distributing Company. 305,274; Aug. 8; Serial No. 318,541; published May 23, 1933.
Biscuit. National Biscuit Company. 94,311; renewed Nov. 25, 1933.
Biscuit. National Biscuit Company. 94,318; renewed Nov. 25, 1933.
Bread. Annedals Knäckebrödsbageri. 305,158; Aug. 8; Serial No. 335,573; published May 23, 1933.
Bread, (rye bread and pumpernickel). Geo. F. Stuhmer & Company. 305,190; Aug. 8; Serial No. 336,236; published May 23, 1933.
Bread (rye bread and pumpernickel). Geo. F. Stuhmer & Company. 305,252–3; Aug. 8; Serial Nos. 334,777–8; published May 16, 1933.
Cake confection. Williams Bakery. 305,145; Aug. 8; Serial No. 335,264; published May 16, 1933.
Candies. Candy Products Corporation. 305,225; Aug. 8; Serial No. 332,985; published May 16, 1933.
Candies. Cleeves Limited. 305,160; Aug. 8; Serial No. 335,630; published May 16, 1933.
Candies. P. G. Holliday. 305,283; Aug. 8; Serial No. 315,636; published May 23, 1933.
Canned fish. Aktiebolaget Sveriges Forenade Konservfabriker. 305,254; Aug. 8; Serial No. 334,857; published May 23, 1933.
Canned fruits and vegetables. W. R. Roach & Co. 41,402; renewed Nov. 3, 1933.
Canned fruits and vegetables, olive oil, and macaroni. Comly Flanigen Company. 305,238; Aug. 8; Serial No. 334,425; published May 16, 1933.
Canned salmon. George W. Sanborn & Son. 93,118; renewed Aug. 19, 1933.
Canned tomato juice, pork and beans, hominy, etc. Vincennes Packing Corporation. 305,213; Aug. 8; Serial No. 332,052; published May 23, 1933.
Canned vegetables. Dickinson & Co. 305,288; Aug. 8.
Canned vegetables. Pennsylvania Grocers Association. 305,181; Aug. 8; Serial No. 336,370; published May 23, 1933.
Cereal food products. Hecker-H-O Company. 305,167; Aug. 8; Serial No. 335,817; published May 23, 1933.
Cheese. John Morrell & Co. 305,187; Aug. 8; Serial No. 336,293; published May 23, 1933.
Coffee. St. Louis Coffee & Spice Mills. 92,375; renewed July 1, 1933.
Confectionery. Borden's Condensed Milk Co. 40,691; renewed June 30, 1933.
Confectionery. Crailo Sweets, Incorporated. 305,182; Aug. 8; Serial No. 336,350; published May 23, 1933.
Cookies, cakes, and crackers. J. S. Ivins' Son, Inc. 305,144; Aug. 8; Serial No. 335,065; published May 23, 1933.
Cookies, cakes, and crackers. J. S. Ivins' Son, Inc. 305,150; Aug. 8; Serial No. 335,066; published May 23, 1933.
Cookies, cakes, and crackers. J. S. Ivins' Son, Inc. 305,151; Aug. 8; Serial No. 335,399; published May 23, 1933.
Dairy products. Silver Seal Dairy Products Company. 305,229; Aug. 8; Serial No. 330,434; published May 16, 1933.
Extracts, Flavoring. Baker Extract Company. 305,244; Aug. 8; Serial No. 333,661; published May 23, 1933.
Fish. Andrew Johnson. Knudtson, Limited. 305,162; Aug. 8; Serial No. 335,723; published May 16, 1933.
Flour products, etc., Whole wheat and white. Dugan Brothers of New Jersey, Inc. 305,246; Aug. 8; Serial No. 333,384; published May 23, 1933.
Flour, Self-rising. Wall-Rogalsky Milling Company. 305,147; Aug. 8; Serial No. 335,408; published May 23, 1933.
Flour, Soya bean. American Soya Products Corporation. 305,224; Aug. 8; Serial No. 332,943; published May 16, 1933.
Food for fish. Zenith Novelty Co. 305,198; Aug. 8; Serial No. 336,200; published May 16, 1933.
Food products, Cereal. Hecker-H-O Company. 305,169–72; Aug. 8; Serial Nos. 335,818–21; published May 23, 1933.
Foods made from apples, Dietetic. Krause Medico Gesellschaft mit beschränkter Haftung. 305,251; Aug. 8; Serial No. 334,711; published May 16, 1933.
Gelatin preparation. Frank Pure Food Co. 94,365; renewed Dec. 2, 1933.
Gelatine dessert. N. Becharas. 305,231; Aug. 8; Serial No. 330,844; published May 23, 1933.
Ice cream. S. H. Perry. 305,282; Aug. 8; Serial No. 314,960; published June 21, 1932.
Ice cream. C. Ray. 305,249; Aug. 8; Serial No. 333,011; published May 23, 1933.
Macaroni. D'Amico Macaroni Co. 305,200; Aug. 8; Serial No. 336,176; published May 16, 1933.
Mince meat, jellies, jams and preserves. Bessire & Company. 305,280; Aug. 8; Serial No. 310,671; published May 16, 1933.
Nuts, Roasted and salted pistachios. American Pistachio Inc. 305,176; Aug. 8; Serial No. 336,416; published May 23, 1933.
Oils for food purposes. Vincent Buonocore, Inc. 305,156; Aug. 8; Serial No. 335,440; published May 16, 1933.

Oleomargarine. John F. Jelke Company. 305,193; Aug. 8; Serial No. 336,220; published May 23, 1933.
Olive oil. F. Cappellino. 305,197; Aug. 8; Serial No. 336,213; published May 16, 1933.
Olive-oil. A. Rossano. 93,910; renewed Oct. 21, 1933.
Rice. Beaumont Rice Mills. 92,890; renewed July 8, 1933.
Rice. Beaumont Rice Mills. 92,509; renewed July 15, 1933.
Sauce, Chili. Curtice Brothers Co. 305,214; Aug. 8; Serial No. 332,367; published May 23, 1933.
Spices. E. B. Miller & Co. 94,652; renewed Dec. 23, 1933.
Tea, Maté. B. Levy. 305,149; Aug. 8; Serial No. 335,165; published May 16, 1933.
Tomato juice. Curtice Brothers Co. 305,215; Aug. 8; Serial No. 332,368; published May 23, 1933.
Wafers, Sugar. Homolka Corporation. 305,275; Aug. 8; Serial No. 320,499; published May 16, 1933.

CLASS 47

Campagne and sparkling wines. Lse. Pommery, Fils & Cie. 92,460; renewed July 8, 1933.
Campagne and sparkling wines. Lse. Pommery, Fils & Cie. 92,462–3; renewed July 8, 1933.
Wine, Still straight red table. Joseph Petrocelli & Company. 94,747; renewed Dec. 30, 1933.
Wines. Compañia Mata Union de Bodegas Andaluzas S. A. 305,196; Aug. 8; Serial No. 336,214; published May 23, 1933.
Wines. L. N. Renault & Sons, Inc. 305,203; Aug. 8; Serial No. 336,132; published May 23, 1933
Wines. H. Sichel Söhne. 305,191–2; Aug. 8; Serial Nos. 336,232–3; published May 23, 1933.

CLASS 48

Beer. William McEwan & Co. 94,295; renewed Nov. 25, 1933.
Beer. Oshkosh Brewing Co. 40,988; renewed Aug. 25, 1933.
Beer, barley-stout, ale, etc. Keeley Brewing Company. 41,575; renewed Dec. 1, 1933.
Malt beverage. Cereal. Argonaut Bottling Company. 305,273; Aug. 8; Serial No. 336,813; published May 23, 1933.
Malt beverages. Elizabeth Brewing Corporation. 305,258–9; Aug. 8; Serial Nos. 336,603–4; published May 23, 1933.
Malt beverages. Garden City Brewery. 305,266; Aug. 8; Serial No. 336,716; published May 23, 1933.
Malt beverages, extracts and syrups therefor. J. L. Hoerber Brewing Co. 305,177; Aug. 8; Serial No. 336,415; published May 23, 1933.

CLASS 49

Liquors, Distilled. Gautier Frères. 305,260; Aug. 8; Serial No. 336,607; published May 23, 1933.
Whiskey. Jos. S. Finch & Company. 305,240; Aug. 8; Serial No. 334,214; published May 23, 1933.
Whisky. T. C. Dennehy. 305,189; Aug. 8; Serial No. 336,264; published May 23, 1933.
Whisky. Dublin Distillers Company, Limited. 305,195; Aug. 8; Serial No. 336,218; published May 23, 1933.
Whisky, Scotch. S. Campbell & Son Limited. 305,157; Aug. 8; Serial No. 335,574; published May 23, 1933.

CLASS 50

Cork sheets. Coyne & Paddock Inc. 305,250; Aug. 8; Serial No. 334,633; published May 23, 1933.
Straws, Paper. Soda Straw Mfg. Co. 305,241; Aug. 8; Serial No. 334,125; published May 23, 1933.
Water-proofed fabrics. William L. Barrell Co. Inc. 305,210; Aug. 8; Serial No. 336,069; published May 23, 1933.

LIST OF LABELS

Baltimore Markets—Orange Pekoe. For Tea. Baltimore Markets, Inc. 42,495; Aug. 8.
Bird Seed. For Bird Seed. Galloway Lithographing Co. 42,507; Aug. 8.
Brother Bill. For Butter. E. W. Phillips. 42,517; Aug. 8.
Brown Skin Beauty Face Powder. For Face Powder. M. G. Neumann. 42,515; Aug. 8.
Creamery Butter. For Creamery Butter. Campbell Paper Box Company. 42,497; Aug. 8.
Creamery Butter. For Butter. Campbell Paper Box Company. 42,499; Aug. 8.
Famous Milwaukee Pilsener. For Beer. Cream City Brewing Company. 42,505; Aug. 8.
Food Guild. For Stringless Beans. Jordan Stevens Co. 42,510; Aug. 8.
Food Guild. For Asparagus Tips. Jordan Stevens Co. 42,511; Aug. 8.
Guaranteed Best Quality Poultry. For Poultry. A. R. St. Clair. 42,523; Aug. 8.
Gunther's Beer. For Beer. Gunther Brewing Co. Inc. 42,508; Aug. 8.
Honey Scotch. For Honey Scotch Candy. J. N. Collins Company. 42,503; Aug. 8.
Jig Silhouette. For Puzzles. Joseph Shapiro Co. 42,522; Aug. 8.
Masterpiece. For Coffee. Schotte Coffee & Spice Mills, Inc. 42,519; Aug. 8.
Mi-Best Creamery Butter. For Creamery Butter. Campbell Paper Box Company. 42,500; Aug. 8.
Morrell's Allrite Brand. For Shortening. John Morrell & Co. 42,514; Aug. 8.
Nufavor Creamery Butter. For Creamery Butter. Campbell Paper Box Company. 42,501; Aug. 8.
Oca-Line. For A Medicinal Preparation: D. F. Davenport. 42,506; Aug. 8.
Pen the Fox. For Game. C. M. Sears. 42,521; Aug 8.
Proteo Bread For Diets Restricted in Starches & Sugars. For Bread. Proteo Foods, Incorporated. 42,518; Aug. 8.
Quality Brand Creamery Butter. For Creamery Butter. Campbell Paper Box Company. 42,498; Aug. 8.
Rejuvenarium. For Hand Lotion for Bleaching and Nourishing the skin. H. E. Niemiec. 42,516; Aug. 8.
Scram. For Aluminum and Household Cleanser. Scram Laboratories, Inc. 42,520; Aug. 8.
Sea Raiders. For Chewing Gum. World Wide Gum Co. 42,527; Aug. 8.
Super Blue Blade. For Razor Blades. Super Blade Corporation. 42,524; Aug. 8.
Ten Junket Tablets. For Tablets for Making Perfect Milk Foods for Invalids and children. Chr. Hansen's Laboratory, Inc. 42,509; Aug. 8.
Theo. Kempe Shoe Corp., New York. Smart Footwear. For Footwear. Frank C. Meyer Co., Inc. 42,513; Aug. 8.
Three Melon Brand. For Cantaloup Melons. C. H. Weaver & Co. 42,526; Aug. 8.
Truewerth. For Cocoa. K. B. Chocolate Company. 42,512; Aug. 8.
Walnettos. For Walnut-Flavored Candy. J. N. Collins Company. 42,504; Aug. 8.
Washburn Concords. For Grapes. Washburn Grape Growers Ass'n. 42,525; Aug. 8.
World's Fair Pillow Outfit—Article V. S. 80—Design 2591. For Pillow Outfits. Collingbourne Mills Inc. 42,502; Aug. 8.
Zipp-O. Dirt Slips When Zipp-O Zips. For Soap Compound. H. D. Bodley and G. A. Bodley. 42,496; Aug. 8.

LIST OF PRINTS

Bang!—Then I Lost All Control of My Car (Ad No. GBC-316). For Rubber Tires. B. F. Goodrich Rubber Company. 14,295; Aug. 8.
Latticed Steak. For Two Minute Steak Machines. American Mine Door Company. 14,294; Aug. 8.
Price List of Tear Gas Protective Devices. For Tear Gas Products and Devices. Lachrylte Company. 14,296; Aug. 8.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 8TH DAY OF AUGUST, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbott Laboratories. (See Raisins, G. W., and Clemence, assignors.)
Acme Axminster Loom Spool Company. (See Vickerman, Robert E., assignor.)
Actiengesellschaft C. P. Goerz Optische Anstalt Actiova spolecnost K. P. Goerz opticky ustav. (See Clementi, Antonio, assignor.)
Adams, James H., Circleville, Ohio. Bin closure. 1,921,062; Aug. 8.
Affel, Herman A., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. Treatment of echoes in transmission systems. 1,921,063; Aug. 8.
Ahnger, Yrjo A., Crockett, Calif. Flexible shaft coupling. 1,921,144; Aug. 8.
Ainsworth Manufacturing Corporation. (See Potter, Albert T., assignor.)
Airway Electric Appliance Corporation. (See Riebel, Frederick, jr., assignor.)
Aktiebolaget Nomy. (See Wallgren, A. G. F., and Janson, assignors.)
Aktiengesellschaft Brown, Boveri & Cie. (See Keller, Robert, assignor.)
Albright, Joseph C., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Method of and apparatus for controlling the flow of fluids. 1,921,145; Aug. 8.
Aldrich, Roger W., et al., executor. (See Kaltenbach, Charles E.)
Aldrich, Truman H., jr., Birmingham, Ala. Concentrating ores and other mineral aggregates. 1,921,306; Aug. 8.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Electrical tranmission system. 1,921,718; Aug. 8.
Allen-Bradley Company. (See Wilms, Gustav O., assignor.)
Allen, Joseph W., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J. Electrical apparatus. 1,921,719; Aug. 8.
Allen, S. L., & Co. (See Haagen, Charles W., assignor.)
Allen, William H. (See Ritchie, C. F. Gale, and Allen.)
Allis, Louis, Company, The. (See Smith, Harold L., assignor.)
Allis, Louis, Company, The. (See Smith, H. L., Rathbun, and Forman, assignors.)
Aluminum Company of America. (See Bungay, George W., assignor.)
Aluminum Company of America. (See Kempf, Louis W., assignor.)
Aluminum Company of America. (See Whalen, Edward J., assignor.)
American Blower Corporation. (See Anderson, Edward L., assignor.)
American Brake Shoe and Foundry Company, The. (See Pogue, Robert B., assignor.)
American Can Company. (See Murch, John H., assignor.)
American Can Company. (See Young, John M., assignor.)
American Cyanamid Company. (See Migrdichian, Vartkes, assignor.)
American Glanzstoff Corporation. (See Herrmann, Conrad, assignor.)
American Hardware Corporation. (See Stone, Elmer B., assignor.)
American Ironing Machine Company, The. (See Peter, Edward C., and Castricone, assignors.)
American Lithographic Company. (See Gibbs, John L., assignor.)
American Lurgi Corporation. (See Schober, O., and Sehnitzspahn, assignors.)
American Potash & Chemical Corporation. (See Ritchie, C. F., Gale, and Allen, assignors.)
American Radiator Company. (See Brabbee, Charles W., assignor.)
American Radiator & Standard Sanitary Corporation. (See Reynolds, Frank C., assignor.)
American Rubber Company. (See Yeaton, G. S., and Blauer, assignors.)
American Steel Foundries. (See Aurien, Ray G., assignor.)
American Steel Foundries. (See Porter, John W., assignor.)
American Sterilizer Company. (See Underwood, Wecden B., assignor.)
American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Edwards, William H., assignor.)
American Telephone and Telegraph Company. (See Hamilton, Baxter P., assignor.)
American Telephone and Telegraph Company. (See Hollmann, Hans E., assignor.)
American Window Glass Company. (See Pierce, Lonn'e J., assignor.)
American Window Glass Company. (See Stein, Edward J., assignor.)
Amstutz, Forest C., assignor to The Dow Chemical Company, Midland, Mich. Making dichloroacetic acid. 1,921,717; Aug. 8.
Anderson, Andrew X., San Francisco, Calif. Insect destroying device. 1,921,901; Aug. 8.
Anderson, Axel V., Beacon, assignor to New York Rubber Corporation, New York, N. Y. Making inflatable articles. 1,920,961; Aug. 8.
Anderson, Bennett R., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Oil recovery apparatus. 1,921,279; Aug. 8.
Anderson, Edward L., Grosse Ile, assignor to American Blower Corporation, Detroit, Mich. Line-flow fan. 1,920,952; Aug. 8.
Anderson, Emil, Briarcliff Manor, N. Y. Power transmission mechanism. 1,921,598; Aug. 8.
Anderson, Ian B., R. F. Thomson, and J. Thomas, assignors to Scottish Dyes, Limited, Grangemouth, Scotland. Production of benzanthrone derivatives. 1,921,496; Aug. 8.
Anderson, Mabel V., Lewiston, Maine, assignor of one-fourth to A. E. Heath, Crumpsall, England, and one-fourth to E. G. Canham, Auburn, Maine. Revolving cylinder pump. 1,921,720; Aug. 8.
Andren, Karl H. (See Berolsheimer, C. P., and Andren.)
Andres, William J., assignor to Bendix Brake Company, South Bend, Ind. Brake-operating connections. 1,921,146; Aug. 8.
Andrews, Edward F., Evanston, assignor to Andrews-Hammond Corporation, Chicago, Ill. Floor radiounit. 1,922,008; Aug. 8.
Andrews-Hammond Corporation. (See Andrews, Edward F., assignor.)
Andrews, Nathaniel R., Yonkers, and J. J. Neuman, New York, N. Y. Automatic charging means for centrifugal extractors. 1,921,446; Aug. 8.
Apple, Edward M., executor, et al. (See Apple, Vincent G.)
Apple, Herbert F., executor, et al. (See Apple, Vincent G.)
Apple, Vincent G., deceased, Dayton, Ohio; H. F. Apple, E. M. Apple, and G. Darroch, executors. Dynamo electric machine stator with noncorrosive lining. 1,921,111; Aug. 8.
Apple, Vincent G., deceased, Dayton, Ohio; H. F. Apple, E. M. Apple, and G. Darroch, executors. Wire wound armature. 1,921,112; Aug. 8.
Arkema, Harold P., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand unwinding apparatus. 1,920,962; Aug. 8.
Armie, Roy A., Ridgewood, assignor to J. Edward Ogden Company, Inc., East Orange, N. J. Bridle ring. 1,921,797; Aug. 8.
Armorsteel Roadguard Company, The. (See Miller, Lee H., assignor.)
Athey Truss Wheel Co. (See Kuchar, Joseph, assignor.)
Atlantic Coast Fisheries Company. (See Taylor, Harden F., assignor.)
Atlas Foundry Company. (See Gaston, Fred A., assignor.)
Augustus-Carpenter Corporation, The. (See Carpenter, Augustus, assignor.)
Augustus-Carpenter Corporation, The. (See Carpenter, Ernest S., assignor.)
Augustus-Carpenter Corporation. (See Carpenter, Ernest S., assignor.)
Aune, Lennie O. (See Johnson, H., and Aune.)
Aurien, Ray G., assignor to American Steel Foundries, Chicago, Ill. Brake mechanism. 1,921,599; Aug. 8.
Autogiro Company of America. (See Rawson, Arthur H. C. A., assignor.)
Automatic Musical Company. (See Green, Clifford H., assignor.)
Avery, B. F., & Sons. (See Ray, Charles T., assignor.)
Axe, Roy T., assignor to Bendix Brake Company, Inc., Syracuse, N. Y. Window and sash construction 1,922,009; Aug. 8.
Axe, Roy T., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Window construction (widthwise adjustable sash guide). 1,922,010; Aug. 8.
Axe, Roy T., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Spring pressed window stop construction. 1,922,011; Aug. 8.
Babcock, George H., Chicago, Ill. Spring winder. 1,921,600; Aug. 8.
Bahlke, William H., Hammond, assignor to Standard Oil Company, Whiting, Ind. Distillation of wax materials. 1,921,360; Aug. 8.
Bailey, Charles W., assignor to P. A. Froeschl and O. P. Froeschl, Kansas City, Mo. Oil pan assembling means. 1,921,379; Aug. 8.

Bailey, Edwin M. (See Bailey, Edwin W. M., assignor.)
Bailey, Edwin W. M., assignor to Edwin M. Bailey, Amesbury, Mass. Window glass guide. 1,921,601; Aug. 8.
Bailey Meter Company. (See Allbright, Joseph C.)
Bailey Meter Company. (See Barrett, Joseph M., assignor.)
Baird, William F., Winchester, Mass. Controlling low temperature refrigerants. 1,921,147; Aug. 8.
Baker, George R. (See Paterson, J. C., and Baker.)
Baker Perkins Company. (See Paterson, J. C., and Baker, assignors.)
Baldwin, Elnora E., Denver, Colo. Hair waver. 1,921,861; Aug. 8.
Baranowsky, Raoul, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Oscillation circuit for short-wave generators. 1,921,448; Aug. 8.
Barker, Aldred F., Leeds, England, assignor to Robert Vicars, Sydney, Australia. Hand mechanical fleece deburring machine. 1,921,064; Aug. 8.
Barker, William T., jr., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Timing device. 1,921,380; Aug. 8.
Barley, J. W. (See Payne, Walter F., assignor.)
Barnes, Leslie W. (See Bunnell, E. C., and Barnes.)
Barnes, Ronald S., J. E. G. Harris, and J. Thomas, assignors to Scottish Dyes, Limited, Grangemouth, Scotland. Production of sulphuric anhydride compounds of pyridine. 1,921,497; Aug. 8.
Barnett, Louis, Brooklyn, N. Y. Accessories for electric fittings. 1,921,447; Aug. 8.
Barrett Company, The. (See Miller, Stuart P., assignor.)
Barrett, Joseph M., Cleveland Heights, assignor to Bailey Meter Company, Cleveland, Ohio. Feed water regulator. 1,921,498; Aug. 8.
Barrett, Robert D., New York, N. Y. Book end. Des. 90,432; Aug. 8.
Bartlett, C. O., & Snow Company, The. (See Goodell, F. H., and Chinnock, assignors.)
Bary, Victor A., Hendon, London, England. Axle bearing. 1,921,339; Aug. 8.
Bates Manufacturing Company, The. (See Houwen, Frederick C., assignor.)
Battegay, Martin, Mulhouse, France, assignor to Calco Chemical Company, Inc. Dyeing and printing of textile fibers by means of dyes formed by oxidation. 1,921,148; Aug. 8.
Batterman, Elmer F., and J. Verderber, assignors to The Cleveland Universal Jig Company, Cleveland, Ohio. Clamp. 1,921,721; Aug. 8.
Bauersfeld, Walther, and O. von Gruber, assignors to the Firm Carl Zeiss, Jena, Germany. Image-plate holding chamber for apparatus for measuring photograms. 1,921,647; Aug. 8.
Baum, Erich. (See Herrmann, W. O., and Baum.)
Baumeister, George R., Boston, Mass. Pipe insulation. 1,921,648; Aug. 8.
Bawden, Alonza C., El Monte, Calif. Sandpaper holder device. 1,921,211; Aug. 8.
Bayles, John H. G., Nottingham, England. Thread changing feeder mechanism of circular knitting machines. 1,921,902; Aug. 8.
Baze, Maxime, Paris, assignor to Holding Internationale Society Anonyme, Luxembourg, Grand-Duchy of Luxembourg. Apparatus for connecting a source of acoustic waves with several listeners for a suitable time. 1,921,961; Aug. 8.
Becker, Joseph A., Denville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron emitter and making same. 1,921,065; Aug. 8.
Becker, Nikolaus, Durlach near Karlsruhe, assignor to Schnellpressenfabrik Aktiengesellschaft, Heidelberg, Heidelberg, Germany. Guiding device for sheet working printing presses. 1,921,340; Aug. 8.
Becker, Nils F., assignor to Rhinelander Paper Company, Rhinelander, Wis. Mottling paper. 1,921,649; Aug. 8.
Becket, Frederick M., New York, N. Y., assignor to Electro Metallurgical Company. Stain resisting wrought article. 1,920,953; Aug. 8.
Beckett, Reginald W., assignor, by mesne assignments, to Timken Silent Automatic Company, Detroit, Mich. Furnace for liquid fuel-burners. 1,921,798; Aug. 8.
Bedford, Leslie H., Aldwych, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Cathode for electron discharge devices and making the same. 1,921,066; Aug. 8.
Bedford, Leslie H., Aldwych, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Manufacture of thermionic devices. 1,921,067; Aug. 8.
Beemack Furnace Company. (See MacDougall, Robert, assignor.)
Behling, Arthur J., Chicago, Ill., assignor to Pioneer Fruit Harvesting Company. Picking machine. 1,921,650; Aug. 8.
Behling, Arthur J., Chicago, Ill., assignor to Pioneer Fruit Harvesting Company. Picking and harvesting machine. 1,921,651; Aug. 8.
Behringer, Ralph F. (See Wiesman, William A., assignor.)
Bell, Charles W., and W. K. Dillon, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Article working apparatus. 1,921,403; Aug. 8.
Bell Telephone Laboratories, Incorporated. (See Becker, Joseph A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Burns, Robert M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Burton, Everett T., assignor.)
Bell Telephone Laboratories, Incorporated. (See Crabtree, James, assignor.)
Bell Telephone Laboratories, Incorporated. (See Field, Joseph C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hinrichsen, Edward E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hovgaard, Ole M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Kuhn, J. J., and Terry, assignors.)
Bell Telephone Laboratories, Incorporated. (See Mason, Warren P., assignor.)
Bell Telephone Laboratories, Incorporated. (See Nebel, Charles N., assignor.)
Bell Telephone Laboratories, Incorporated. (See Reynolds, J. N., and Dobbin, assignors.)
Bell Telephone Laboratories, Incorporated. (See Samuel, Arthur L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Shea, Timothy E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Stallard, Burrell, assignor.)
Bell Telephone Laboratories, Incorporated. (See Templeton, Bryce O., assignor.)
Beller, Hans, Ludwigshafen-on-the-Rhine, and M. Luther, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of alcohols of high molecular weight. 1,921,381; Aug. 8.
Bemis Industries, Incorporated. (See Frobisher, Ralph S., assignor.)
Bemis Industries, Incorporated. (See Hodges, William L., assignor.)
Bendix Brake Company. (See Andres, William J., assignor.)
Bendix Brake Company. (See Gemmer, George A., assignor.)
Bendix Brake Company. (See Iversen, Poul A. S., assignor.)
Bendix Brake Company. (See Johnson, H., and Aune, assignors.)
Bendix Brake Company. (See Taylor, Eugene V., assignor.)
Benedict, Austin A., Merrill, Wis. Combination fish scaler and knife. 1,920,954; Aug. 8.
Benjamin, Abraham S., assignor to Teletype Corporation, Chicago, Ill. Remote motor control. 1,921,799; Aug. 8.
Benson, Ikel, C. (See Taylor, O. G., and McDonald, assignors.)
Bentley, Oliver D. H., Norfolk, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Elastic fluid turbine. 1,921,903; Aug. 8.
Benya, John H., Lakewood, Ohio. Display device. 1,921,113; Aug. 8.
Berendes, Rudolf, and W. Kropp, Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Solvent for remedies. 1,921,722; Aug. 8.
Berger, Maurice P. (See Herts, S., and Berger.)
Berns Manufacturing Company. (See Hofer, A., and Danninger, assignors.)
Berkowitz, Michael, New York, assignor to United Research Corporation, Long Island City, N. Y. Motion picture projecting machine. 1,921,449; Aug. 8.
Berolzheimer, Clarence P., Chicago Heights, Ill., and K. H. Andren, Milwaukee, Wis.; said Andren assignor to said Berolzheimer. Apparatus for marking wire. 1,921,800; Aug. 8.
Bessler Disappearing Stairway Company, The. (See Bessler, Frank E., assignor.)
Bessler, Frank E., assignor to The Bessler Disappearing Stairway Company, Akron, Ohio. Switch. 1,922,012; Aug. 8.
Best, Cyril. (See Molins, W. E., and Best.)
Bezner, Albert, Bavensburg, Germany. Decorticating device for timber. 1,921,904; Aug. 8.
Bickell, Charles H., trustee. (See Sparks, Stanley W., assignor.)
Bickley, Everett H., Cynwyd, Pa. Automatic sorter. 1,921,862; Aug. 8.
Bickley, Everett H., Cynwyd, Pa. Sorting machine. 1,921,863; Aug. 8.
Bidault, Eugène A. (See Schimmel F., and Bidault.)
Bigelow-Liptak Corporation. (See Schruefer, John A., assignor.)
Binghamton Foundry & Machine Co. (See Holford, Harry E., assignor.)
Bird, Peter E., London, England. Collapsible table, stand, box, or the like. 1,921,801; Aug. 8.
Birrell, Margaret F., executrix. (See Birrell, William.)
Birrell, William, deceased, Santa Barbara, Calif.; Margaret F. Birrell, executrix. Water motor for sprinklers. 1,921,020; Aug. 8.
Bishop, Francis W., Rochester, N. Y., assignor to Waite & Bartlett X-Ray Manufacturing Company, Cleveland, Ohio. X-Ray apparatus. 1,921,499; Aug. 8.
Bissell, Percy R. (See Hedrich, Richard, assignor.)
Bissell, Wayne W., New Castle, Pa. Container. 1,921,962; Aug. 8.
Blair, Duane A. (See Webb, J. B., and Blair.)

Blair Strip Steel Company. (See Lewis, Lester L., assignor.)
Blake, James F., Tulsa, Okla. Combination check and gate valve. 1,921,280; Aug. 8.
Blake, Preble W., Newton, assignor to H. P. Elliott, Watertown, Mass. Mooring buoy. 1,921,500; Aug. 8.
Blauer, Louis. (See Yeaton, G. S., and Blauer.)
Bliss, Elmer J., Boston, assignor to Regal Shoe Company, Whitman, Mass. Shoe fitting device. 1,921,997; Aug. 8.
Blom, Robert, Paris, France. Hydroelectric installation. 1,921,905; Aug. 8.
Blume, Louis E., Pittsfield, Mass., assignor to General Electric Company. Electrical transmission system. 1,921,728; Aug. 8.
Bobroff, Bornett L., Milwaukee, Wis. Hospital indicator. 1,921,149; Aug. 8.
Boecking, Ewald. (See Frappier, L. S., and Boecking.)
Boecking, Ewald. (See Kindelmann, A., and Boecking.)
Boesch, Gustav S., Danbury, Conn. Hat stretching machine. 1,921,450; Aug. 8.
Bohnert, Stephen, Cleveland, Ohio. Smoker's cabinet. 1,921,652; Aug. 8.
Bohnke, Herman C., assignor to Superior Paper Products Company, Carnegie, Pa. Shipping carton. 1,921,724; Aug. 8.
Bomberger, George E., assignor to Inland Container Corporation, Indianapolis, Ind. Corner construction. 1,921,150; Aug. 8.
Bonat, Harry, New York, N. Y. Waving hair. 1,921,802; Aug. 8.
Bond Manufacturing Corporation. (See Kersey, Leon N., assignor.)
Bonsack, Walter, assignor to The National Smelting Company, Cleveland, Ohio. Improving aluminum and alloys thereof. 1,920,968; Aug. 8.
Bonsack, Walter, assignor to The National Smelting Company, Cleveland, Ohio. Improving aluminum and alloys thereof. 1,921,998; Aug. 8.
Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,921,803; Aug. 8.
Bonsall, Charles D. Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,921,804; Aug. 8.
Bordoni, Ferdinando, Rome, Italy. Helicopter. 1,921,805; Aug. 8.
Borgwardt, Erich. (See Schoeller, W., Schwenk, and Borgwardt.)
Borg-Warner Corporation. (See Thelander, Carl A., assignor.)
Borokoff, Louis, Brooklyn, N. Y. Bottle. Des. 90,433; Aug. 8.
Bouchard, Blanche E., et al. (See De Grenier, Arthur H., assignor.)
Boutet, Robert C. M. P. F., Marseille, France, assignor to Societe Francaise des Glycerines. Froth breaking. 1,921,725; Aug. 8.
Bowen, Ward E., Washington, D. C. Oscillation generator. 1,921,501; Aug. 8.
Bowman, Alfred A., Pleasanton, Calif. Alarm and safety system. 1,921,557; Aug. 8.
Boyden, Dwight F., Annapolis, Md. Shaft for golf clubs and making. 1,921,068; Aug. 8.
Boyer Clarence F., assignor of one-third to A. M. Ryan, Bloomington, Ill. Knuckle-jointed safety motor-vehicle bumper. 1,921,053; Aug. 8.
Brabbée, Charles W., Bronxville, assignor to American Radiator Company, New York, N. Y. Humidifying apparatus. 1,922,014; Aug. 8.
Brackelsberg, Carl A., Hemer, Germany. Method and apparatus for producing rolled bodies from powderous materials. 1,921,114; Aug. 8.
Brady, Edward J., assignor to The United Gas Improvement Company, Philadelphia, Pa. Dust collector. 1,922,013; Aug. 8.
Braithwaite & Co., Engineers Limited. (See Hines, John, assignor.)
Brassert, H. A., & Company. (See Brassert, Herman A., assignor.)
Brassert, Herman A., assignor to H. A. Brassert & Company, Midland, Mich. Treatment of reactors. 1,921,726; Aug. 8.
Brehmer, Gebruder. (See Müller, Oskar, assignor.)
Brenner, Jacob, Maplewood, N. J. Calendar. 1,921,451; Aug. 8.
Brill, Karl F., Steinkrade, Germany. Puppet head. 1,921,502; Aug. 8.
Britton, Edgar C., assignor to The Dow Chemical Company, Midland, Mich. Treatment of reactors. 1,921,726; Aug. 8.
Britton, Edgar C., and F. Bryner, assignors to The Dow Chemical Company, Midland, Mich. Separating isomeric mono-chloro-ortho-hydroxy-diphenyls. 1,921,727; Aug. 8.
Broido, Benjamin, New York, N. Y., and J. R. LeValley, Pittsburgh, Pa., assignors to The Superheater Company, New York, N. Y. Method and apparatus for cracking oils. 1,921,603; Aug. 8.
Broido, Benjamin N., assignor to The Superheater Company, New York, N. Y. Heating oil. 1,921,602; Aug. 8.
Broman, Charles E., Sparta, and W. H. Nowak, Grand Rapids, Mich. Golf ball marking apparatus. 1,921,807; Aug. 8.
Bronander, Wilhelm B., Montclair, N. J. Fire extinguisher. 1,921,452; Aug. 8.
Brooks, Fred F. (See Kriegbaum, G. M., Brooks, and Haas.)
Brooks, Walter C. (See Staples, J. W., and Brooks.)
Brossman, Charles, Indianapolis, Ind. Underfeed rotary grate stoker. 1,921,864; Aug. 8.
Brown, Cicero C., Hebronville, Tex. Well head equipment. 1,921,115; Aug. 8.
Brown Company. (See Chase, H. A., and Titus, assignors.)
Brown Company. (See Richter, George A., assignor.)
Bruno, Americus D. (See Mascetti, F. E., and Bruno.)
Brush, John G. (See Davis, C. F., and Brush.)
Bryner, Fred. (See Britton, E. C., and Bryner.)
Buchanan, Stephen N., assignor to The Thomas & Betts Co., Elizabeth, N. J. Safety lamp. 1,921,069; Aug. 8.
Buchi, Alfred, Winterthur, Switzerland. Exhaust turbocharged, double-acting internal combustion engine. 1,921,906; Aug. 8.
Buchi, Alfred, Winterthur, Switzerland. Exhaust turbo blower for internal combustion engines. 1,921,907; Aug. 8.
Budd, Edward G., Manufacturing Company. (See Mungen, Theodore, assignor.)
Budd Wheel Company. (See Eksergian, Carolus L., assignor.)
Bull, Arthur A., and W. A. Wood, assignors to Handy Governor Corporation, Detroit, Mich. Windshield wiper. 1,921,070; Aug. 8.
Bundsen, Adolf E., Palo Alto, assignor to Richard T. Bundsen, San Francisco, Calif. Attachment for rock drill tools. 1,921,841; Aug. 8.
Bundsen, Richard T. (See Bundsen, Adolf E., assignor.)
Bungay, George W., Plainfield, N. J., assignor to Aluminum Company of America, Pittsburgh, Pa. Connecting a collapsible celiophane tube to a metallic dispensing terminal. 1,921,021; Aug. 8.
Bunnell, Earl C., Stratford, and L. W. Barnes, Trumbull, Conn., assignors to Q-Tips, Inc., New York, N. Y. Apparatus for manufacturing medical swabs. 1,921,604; Aug. 8.
Burbank, Davis E., administrator. (See Burbank, Louis S.)
Burbank, Louis S., deceased, by D. E. Burbank, administrator, Worcester, Mass., assignor, by mesne assignments, to The Waterbury Farrell Foundry and Machine Company, Waterbury, Conn. Manufacture of bolts, screws, and the like. 1,921,654; Aug. 8.
Burbank, Louis S., deceased, by D. E. Burbank, administrator, Worcester, Mass., assignor, by mesne assignments, to Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Machine for finishing the heads of bolts, screws, and the like. 1,921,655; Aug. 8.
Burden, Oscar R., Wichita Falls, Tex., assignor to The Texas Company, New York, N. Y. Testing apparatus. 1,921,986; Aug. 8.
Burgess, C. F., Laboratories, Inc. (See Jack, William A., 3d., assignor.)
Burkholder, John D., Harrisonburg, Va., assignor to Therm-A-Mode, Inc., Orange, N. J. Therapeutic appliance. 1,921,348; Aug. 8.
Burnheimer, Charles W. See Recen, Henry A., assignor.)
Burns, Robert M., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrodeposition of alloys. 1,920,964; Aug. 8.
Burr, Earl A. See Owens, M. H., and Burr.)
Burrell, Charles D., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Storage rack. 1,921,656; Aug. 8.
Burri, Samuel L., New York, N. Y. Device for forming cigarettes. 1,920,955; Aug. 8.
Burton, Everett T., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Submarine cable signaling system. 1,921,022; Aug. 8.
Burton, Warren D., assignor to Combustioneer, Inc., Goshen, Ind. Power transmission mechanism. 1,920,956; Aug. 8.
Bush, Paine L., and W. R. King, Dallas, Tex. Bookmarker and filing card. 1,921,213; Aug. 8.
Bushnell, Porter K., Berkeley, Calif. Egg beater. 1,921,342; Aug. 8.
Butefish, Clinton C., Los Angeles, Calif. Rumble seat top. 1,921,308; Aug. 8.
Butow, Douglas L., Evanston, Ill. Mounting plate for outlet boxes. 1,921,151; Aug. 8.
Buzard, Otto L. See (Price, Albert H., assignor.)
Byron Jackson Company. (See Smith, N. K., and Hertel, assignors.)
Calco Chemical Company. (See Battegay, Martin, assignor.)
Calderwood, John M., Salt Lake City, Utah. Drilling apparatus. 1,921,503; Aug. 8.
Caldwell Experimental Corporation. (See Caldwell, Henry C., assignor.)
Caldwell, Henry C., assignor to Caldwell Experimental Corporation, Buffalo, N. Y. Heater. 1,921,152; Aug. 8.
Caldwell, Lyle, assignor, by mesne assignments, to California First National Bank of Long Beach, Long Beach, Calif. Neutralization. 1,921,116; Aug. 8.
California Canning Machinery Company. (See Wilcox, George, assignor.)
California First National Bank of Long Beach. (See Caldwell, Lyle, assignor.)

Camel Company. (See Tobin, K. J., and Wasberg, assignors.)
Campbell, Lorn, jr., Lakewood, Ohio. Blowpipe. 1,920,965; Aug. 8.
Canfield, Kendall E., New York, N. Y. Handling and transporting freight. 1,921,605; Aug. 8.
Canham, Elisabeth G., et al. (See Anderson, Mabel V., assignor.)
Cantwell, Joseph M., Albany, N. Y. Motor driven blower unit. 1,921,153; Aug. 8.
Capital Machine Company. (See Koss, Louis F., jr., assignor.)
Carbide and Carbon Chemicals Corporation. (See Robertson, Foster, assignor.)
Cardwell Westinghouse Company. (See Sproul, Donald F., assignor.)
Carey, Philip, Manufacturing Company. (See Small, Horatio L., assignor.)
Carlson, Anthony E., Los Angeles, Calif. Adjustable locking tubing tong. 1,921,281; Aug. 8.
Carlson, Carl T., Erie, Pa. Heat exchange apparatus. 1,921,806; Aug. 8.
Carlson, Joseph, Detroit, Mich. Fishing pole. 1,920,966; Aug. 8.
Carlsson, Johan, Landskrona, Sweden. Dumping car. 1,921,558; Aug. 8.
Carmer, Dana M., Philadelphia, Pa. Knitted hosiery. 1,921,908; Aug. 8.
Carpenter, Albert S. (See Twiss, D. F., Neale, and Carpenter.)
Carpenter, Ernest S., Cleveland Heights, assignor to The Augustus-Carpenter Corporation, Cleveland, Ohio. Mechanism for driving reels. 1,920,967; Aug. 8.
Carpenter, Ernest S., Cleveland Heights, assignor to The Augustus-Carpenter Corporation, Cleveland, Ohio. Electric control for motion picture projectors. 1,920,968; Aug. 8.
Carpenter, Ernest S., Cleveland Heights, assignor to The Augustus-Carpenter Corporation, Cleveland, Ohio. Mechanical movement. 1,920,969; Aug. 8.
Carpenter, Ernest S., Cleveland Heights, assignor to The Augustus-Carpenter Company, Cleveland, Ohio. Cooling means for motion picture projectors. 1,921,214; Aug. 8.
Carpenter, Ernest S., Cleveland Heights, assignor to The Augustus-Carpenter Company, Cleveland, Ohio. Motion picture projector. 1,921,215; Aug. 8.
Carpenter, William W. S., Oak Park, assignor to Sanford Manufacturing Co., Chicago, Ill. Mucilage spreader. 1,921,248; Aug. 8.
Carroll, Fred M., Yonkers, assignor to The Tabulating Machine Company, Endicott, N. Y. Printing mechanism for accounting machines. 1,921,453; Aug. 8.
Carroll, Joseph W., assignor to P. Carroll & Sons, Philadelphia, Pa. Water heater. 1,921,807; Aug. 8.
Carroll, P., & Sons. (See Carroll, Joseph W., assignor.)
Case, Charles Z., London, England, assignor to Eastman Kodak Company, Rochester, N. Y. Film spool for roll-holding cameras. 1,921,559; Aug. 8.
Case, Charles Z., London, England, assignor to Eastman Kodak Company, Rochester, N. Y. Film spool for roll-film cameras. 1,921,560; Aug. 8.
Casey, Howard T., Rochester, assignor to The Symington Company, New York, N. Y. Journal box. 1,922,015; Aug. 8.
Cash, A. W., Company. (See Temple, Paul C., assignor.)
Cassini, Louis, Columbus, Ohio. Crayon sharpener. 1,920,957; Aug. 8.
Caston, Johnnye L., assignor to The Sterling Company, Chicago, Ill. Dress. Des. 90,434; Aug. 8.
Castricone, John A. (See Peter, E. C., and Castricone.)
Catarau, Jules, Seattle, Wash. Fish lure. 1,921,657; Aug. 8.
Catarau, Jules, Seattle, Wash. Life preserver. 1,921,658; Aug. 8.
Catarau, Jules, Seattle, Wash. Life preserver. 1,921,659; Aug. 8.
Celanese Corporation of America. (See Ellis, G. H., and Olpin, assignors.)
Celanese Corporation of America. (See Pool, William, assignor.)
Chambers, Ira L., assignor of one-half to G. E. Failing, Enid, Okla. Fluid motor. 1,921,023; Aug. 8.
Champlin, Franklin J., Dalton, Mass., assignor to General Electric Company. Electrical compensating arrangement. 1,921,728; Aug. 8.
Chapman, Frank L., Rochester, N. Y. Turnstile. 1,920,958; Aug. 8.
Charman, Walter M., Youngstown, Ohio. Hot top. 1,921,729; Aug. 8.
Charman, Walter M., Cleveland Heights, Ohio. Lining for hot tops. 1,921,730; Aug. 8.
Charman, Walter M., Cleveland Heights, Ohio. Hot top. 1,921,732; Aug. 8.
Charman, Walter M., Cleveland Heights, and H. J. Darlington, Youngstown, Ohio, said Darlington assignor to said Charman. Hot top. 1,921,731; Aug. 8.
Chase, Henry A., and H. R. Titus, assignors to Brown Company, Berlin, N. H. Composite web and making the same. 1,921,504; Aug. 8.
Chaves, Genaro. (See Rodrigues, R., and Chaves.)
Chemical Construction Corporation. (See Hechenbleikner, Ingenuin, assignor.)
Chemische Fabrik von Heyden A. G. (See Von Hoessle, Carl H., assignor.)
Chemische Fabrik von Heyden A. G. (See Zellman, Rudolf, assignor.)
Cheney, Moses E., assignor to Moto Meter Gauge & Equipment Corporation, Toledo, Ohio. Radiator cap. 1,921,909; Aug. 8.
Chesny, Heinz H., Los Angeles, Calif. Low apparent density sodium carbonate. 1,921,505; Aug. 8.
Chevalier, John M., Seattle, Wash. Guy-line clamp. 1,920,970; Aug. 8.
Chicago-Cleveland Car Roofing Company. (See Swanson, Earl R., assignor.)
Childs, William L., assignor to Reed Roller Bit Company, Houston, Tex. Roller bit. 1,921,216; Aug. 8.
Chilton, Roland, Keyport, N. J., assignor, by mesne assignments, to Eclipse Machine Company, Elmira Heights, N. Y. Engine starter. 1,921,344; Aug. 8.
Chinnock, James E. (See Goodell, F. H., and Chinnock.)
Christen, Marcel, Woodside, assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,435; Aug. 8.
Christmas, Burton, Pittsburgh, Pa. Cushion support. 1,921,561; Aug. 8.
Church, Harold D., assignor to The White Motor Company, Cleveland, Ohio. Spring connection for vehicles. 1,921,562; Aug. 8.
Church, Harold D., assignor to The White Motor Company, Cleveland, Ohio. Motor vehicle. 1,921,660; Aug. 8.
City Machine & Tool Company, The. (See Ireland, George E., assignor.)
Clark, Charles H., New York, N. Y. Flexible coupling. 1,921,910; Aug. 8.
Clark, Frederick J., assignor, by direct and mesne assignments, of one-half to Eastman Machine Company, Buffalo, N. Y., and one-half to The Wolf Machine Company, Cincinnati, Ohio. Cutting machine. 1,921,249; Aug. 8.
Clemence, Le Roy W. (See Raisiss, G. W., and Clemence.)
Clementi, Antonio, Vienna, Austria, assignor to the Firm Actiengesellschaft C. P. Goers Optische Anstalt Actiova spolecnost K. P. Goers opticky ustav, Bratislava, Czechoslovakia. Apparatus for adjusting aircraft for a predetermined course. 1,920,959; Aug. 8.
Cleveland Quarries Company, The. (See Owens, M. H., and Burr, assignors.)
Cleveland Universal Jig Company, The. (See Batterman, E. F., and Verderber, assignors.)
Clingestein, Heinrich. (See Wiedemann, K., and Clingestein.)
Clingestein, Heinrich. (See Zervas, P., and Clingestein.)
Clouse, William L., assignor to The National Machinery Company, Tiffin, Ohio. Gauge for cold headers and the like. 1,921,345; Aug. 8.
Coakson, Douglas, et al. (See Milam, Oran A., assignor.)
Coghill, James T., assignor to The Noble & Wood Machine Company, Hoosick Falls, N. Y. Safety device. 1,921,217; Aug. 8.
Cogsdill Manufacturing Company. (See Cogsdill, Stuart A., assignor.)
Cogsdill, Stuart A., assignor to Cogsdill Manufacturing Company, Detroit, Mich. Device for cleaning golf balls or the like. 1,920,960; Aug. 8.
Cohn, Benno, assignor to Ferdinand Gutmann & Co., Brooklyn, N. Y. Making closures. 1,921,808; Aug. 8.
Cohn, Leonard B. (See Gragg, F. E., and Cohn.)
Colborne Manufacturing Company. (See Smith, Dennis W., assignor.)
Colby, Clyde W., East Cleveland, Ohio. Fan. 1,921,218; Aug. 8.
Coletta, Nicholas, Elmira, N. Y. Shoemaker's tool. 1,921,506; Aug. 8.
Colman, Howard D., Rockford, Ill. Temperature regulating system. 1,921,154; Aug. 8.
Colston, Robert. (See Jones, R. C., and Colston.)
Combustioneer, Inc. (See Burton, Warren D., assignor.)
Compagnie Nationale de Matiers Colorantes & Manufactures de Produits Chimiques du Nord Reunies Etablissements Kuhlmann. (See Sack, Ernest A., assignor.)
Connell, Sidney, Washington, D. C., assignor of eighty-two per cent to W. H. Grund and E. H. Spindler, trustees. Timing device for controlling telephone or other circuits. 1,921,733; Aug. 8.
Conner, Leland C., Orangeville, Pa. Hand truck. 1,921,661; Aug. 8.
Connors, George H., and F. C. Stiff, assignors to Highway Trailer Company, Edgerton, Wis. Automatic semitrailer. 1,921,250; Aug. 8.
Conroy, Martin J., Chicago, Ill. Perforated retainer plate construction for fire brick walls. 1,921,346; Aug. 8.
Consolidated Steel Corporation. (See Kinnard, Luther J., assignor.)
Consortium für Elektrochemische Industrie G. m. b. H. (See Herrmann, W. O., and Baum, assignors.)
Consortium fur Elektrochemische Industrie. (See Herrmann, W. O., and Haebnel, assignors.)
Continental Can Company. (See Kronquest, A. L., and Sedwick, assignors.)
Continental Diamond Fibre Company. (See Frederick, Louis T., assignor.)
Continental Gin Company. (See Deems, Frank E., assignor.)

Cook, William N., Battle Creek, Mich. Gas equalizer for internal combustion engines. 1,921,282; Aug. 8.
Copeland Products, Inc. (See Mufly, Glenn, assignor.)
Copeland Products, Inc. (See Replogle, John R., assignor.)
Corbett, Edward L. (See De Forest, Cresson J., assignor.)
Corell, Martin. (See Kränslein, G., Greune, Corell and Vollmann.)
Cosmopolitan Chemical Co. Inc. (See Schlissel, Morris, assignor.)
Cottrell, Frederick G., Washington, D. C., assignor to General Salt Company, Los Angeles, Calif. Separating difficultly soluble constituents from dilute solutions. 1,921,563; Aug. 8.
Cottrell, Frederick G., Washington, D. C., assignor to General Salt Company, Los Angeles, Calif. Recovery of iodine and/or bromine from solutions containing same. 1,921,564; Aug. 8.
Couch, Glenn F., Rochester, assignor to The Symington Company, New York, N. Y. Coupler on pilot beams. 1,921,352; Aug. 8.
Couch, Glenn F., Rochester, assignor to The Symington Company, New York, N. Y. Journal box. 1,922,016; Aug. 8.
Coulson, Harry G., Wallace, Idaho. Liquid feeder. 1,921,347; Aug. 8.
Cowles, Irving, assignor to Union Bank of Chicago, trustee, Chicago, Ill. Force-feed lubrication pump. 1,921,219; Aug. 8.
Crabtree, James, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Continuous film processing machine. 1,921,404; Aug. 8.
Crabtree, John I., assignor to Eastman Kodak Company, Rochester, N. Y. Fade-in and fade-out for motion picture film sound record. 1,921,968; Aug. 8.
Crabtree, John L., and C. E. Ives, assignors to Eastman Kodak Company, Rochester, N. Y. Motion picture and sound record film. 1,921,964; Aug. 8.
Craigmyle, John S., Sparta, Ky. Traveling cultivator. 1,921,253; Aug. 8.
Crain, Earl, West Frankfort, Ill. Gas pipe stop. 1,921,809; Aug. 8.
Crammond, Earle D., Washington, D. C., and W. A. Hughes, Morristown, N. J., assignors to The Harvel Corporation. Filter material and producing the same. 1,921,309; Aug. 8.
Crane Co. (See Olson, Charles A., assignor.)
Crapo, George B., Lynbrook, N. Y. Indicating device. 1,921,965; Aug. 8.
Crecelius, Henry R., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Automobile body construction. 1,921,284; Aug. 8.
Creed and Company, Limited. (See Griffith, Ronald G., assignor.)
Cremer, Carl, Copenick-Wendenschloss near Berlin, Germany. Multicore high tension cable. 1,921,606; Aug. 8.
Crisman, Fred W., Richland Center, Wis. Rear view mirror for trucks. 1,921,810; Aug. 8.
Crosby, Harry E., Huntington Park, assignor to Mission Dry Corporation, Ltd., Los Angeles, Calif. Liquid cooler. 1,921,883; Aug. 8.
Crosby, Roy A. (See Nelson, C. C., and Crosby.)
Crosley Radio Corporation, The. (See Hunter, Theodore A., assignor.)
Crowell, Ray O., Rome, assignor to General Cable Corporation, New York, N. Y. Wire stripping apparatus. 1,921,884; Aug. 8.
Culbertson, Albert L., Mount Lebanon, Pa. Heating furnace. 1,921,507; Aug. 8.
Cullen, Ernest E., San Diego, Calif. Dish. 1,921,848; Aug. 8.
Cullen, William J., Maplewood, N. J. Roll shaft mounting for inspection reelers and the like. 1,921,405; Aug. 8.
Cunard, Russell S., Everett, Pa. Semaphore. 1,921,849; Aug. 8.
Curtis, Chalmer C., Cuyahoga Falls, Ohio. Refrigerator. 1,921,865; Aug. 8.
Curtis, Charles G., New York, N. Y. Trunk piston for Diesel engines. 1,921,607; Aug. 8.
Cusson, Sylvain, assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,436; Aug. 8.
Custer, Ira R., El Paso, Tex. Flask. 1,921,350; Aug. 8.
Cutler-Hammer, Inc. (See Meuer, George J., assignor.)
Cyclotow Corporation, Ltd. (See Hess, Albert L., assignor.)
D L P Valve Company, a Trust. (See Lewis, James O., assignor.)
Daly, George F., Johnson City, assignor to The Tabulating Machine Company, Endicott, N. Y. Total taking mechanism. 1,921,454; Aug. 8.
Daman, Arthur C., Denver, Colo. Conditioner and agitator. 1,921,220; Aug. 8.
Dana, Charles A., et al., receiver. (See Soulen, Harry B., assignor.)
Dannbeiser, Joseph M., assignor to Ma-B-Ma Co., San Francisco, Calif. Laboratory switchboard system. 1,921,608; Aug. 8.
Danninger, Felix. (See Hofer, A., and Danninger.)
Darbord, René H., Paris, France, assignor to International Communications Laboratories, Inc., New York, N. Y. Wave-meter for ultra-short waves. 1,921,117; Aug. 8.
Darlington, Harry J. (See Charman, W. M., and Darlington.)
Darqué, Etienne M., Clichy, France. Can opener. 1,921,911; Aug. 8.
Darr, Milford L., Oakland, Calif. Rotary steam engine. 1,921,662; Aug. 8.
Darroch, Gourley, executor, et al. (See Apple, Vincent G.)
Davenport, John L. (See Pasternack, R., Mead and Davenport.)
Davies, Emyr C. (See Powell, A. R., and Davies.)
Davis, Clarke F., and J. G. Brush, Westfield, assignors to Structural Gypsum Corporation, Linden, N. J. Composite slab structure. 1,921,285; Aug. 8.
Dawson, Leo H., Washington, D. C., assignor, by mesne assignments, to Wired Radio, Inc., New York, N. Y. Geometrical instrument. 1,921,508; Aug. 8.
Dayton, Edwin R., Ashland, and W. H. Rudolph, Brookline, Mass. Lubricating apparatus. 1,921,118; Aug. 8.
Dayton Scale Company. (See Strachan, Thomas H., assignor.)
Dayton Scale Company. (See Wiley, Raymond D., assignor.)
Dean, George E., assignor to Charles G. Willett, Grand Rapids, Mich. Hydraulic scraper. 1,921,221; Aug. 8.
Decker, Lemuel B., Kenogami, Quebec, Canada. Production of wood pulp. 1,921,966; Aug. 8.
Deems, Frank E., Birmingham, assignor to Continental Gin Company, Birmingham, Ala. Linter gin drive. 1,921,311; Aug. 8.
Deere & Company. (See Paul, Talbert W., assignor.)
De Forest, Cresson J., Gogota, N. J., assignor of one-half to Edward L. Corbett, New York, N. Y. Machine for washing glasses and other receptacles. 1,921,509; Aug. 8.
De Giers, Clarence A., Forest Hills, assignor to Richard C. Murphy, New York, N. Y. Liquid level gauge with diaphragm seal. 1,920,971; Aug. 8.
Deister, Emil, assignor to Deister Machine Company, Fort Wayne, Ind. Vibrating screen. 1,920,972; Aug. 8.
Deister Machine Company. (See Deister, Emil, assignor.)
De Lamar, Roland D. (See Murnane, W. F., and De Lamar.)
De Lamar, Rudolph E., New York, N. Y., assignor to Henry S. Germond, Bayonne, N. J. Storage rack. 1,921,222; Aug. 8.
De Laney, Wallace W., assignor to The Seamless Rubber Company, New Haven, Conn. Method of and apparatus for treating sheet rubber. 1,921,455; Aug. 8.
De Laney, Wallace W., assignor to The Seamless Rubber Company Incorporated, New Haven, Conn. Sheet rubber product. 1,921,456; Aug. 8.
Delco-Remy Corporation. (See Hiday, John B., assignor.)
Dennison Manufacturing Company. (See Flood, Carl A., assignor.)
De Philippe, Joseph, New York, N. Y. Reservoir applicator. 1,921,912; Aug. 8.
De Vaulchier, Simon, New York, N. Y., assignor to Godefroy Manufacturing Company, St. Louis, Mo. Bottle. 90,464; Aug. 8.
De Wasmundt, Wladimir, Paris, France. Two-stroke cycle internal combustion engine. 1,921,510; Aug. 8.
De Wolfe, Mark C., Oakland, Calif. Concrete placing equipment. 1,921,351; Aug. 8.
Dexter Folder Company. (See Perry, John, assignor.)
Dickinson, Fairleigh S., Rutherford, N. J. Bandage fastener. 1,921,999; Aug. 8.
Dickinson, Joseph R., Hampton, Va., assignor to Newport News Shipbuilding and Dry Dock Company. Ventilator fitting. 1,921,457; Aug. 8.
Diebold Safe & Lock Company. (See Miller, William C., assignor.)
Dillon, Warren K. (See Bell, C. W., and Dillon.)
Dina, Auguste, Elizabeth, N. J., assignor to International Projector Corporation, New York, N. Y. Keying structure for motion picture projection machines. 1,921,866; Aug. 8.
Dinzl, Richard W., assignor to Southwark Foundry & Machine Company, Philadelphia, Pa. Valve-operating mechanism. 1,920,973; Aug. 8.
Dispersions Process, Inc. (See Pratt, W. B., and Halstead, assignors.)
Dobbin, Henry F. (See Reynolds, J. N., and Dobbin.)
Dobson & Barlow Limited. (See Rushton, James L., assignor.)
Dodge Manufacturing Corporation. (See Van Derhoef, George N., assignor.)
Dohberty Research Company. (See Goldsborough, Winder E., assignor.)
Donnellan, Edward P., assignor to Standard-Johnson Company, Inc., Brooklyn, N. Y. Coin counting machine. 1,921,155; Aug. 8.
Donnellan, Edward P., New York, assignor to Standard-Johnson Company, Inc., Brooklyn, N. Y. Cluster crimper for coin wrappers. 1,921,179; Aug. 8.
Dow Chemical Company, The. (See Amstuts, Forest C., assignor.)
Dow Chemical Company, The. (See Britton, Edgar C., assignor.)
Dow Chemical Company, The. (See Britton, E. C., and Bryner, assignors.)
Dow Chemical Company, The. (See Grether, Ernest F., assignor.)
Dow Chemical Company, The. (See Heath, S. B., and Keller, assignors.)

Dow Chemical Company The. (See Heath, S. B., and Minger, assignors.)
Dow Chemical Company, The. (See Mills, Lindley E., assignor.)
Dow Chemical Company, The. (See Putnam, Mark E., assignor.)
Dow Chemical Company, The. (See Ward, Louis E., assignor.)
Drenning, Percy R., assignor to T. H. Symington & Son, Inc., Baltimore, Md. Truck bolster and side bearing structure with lateral motion means. 1,921,913; Aug. 8.
Dresser, S. R., Manufacturing Company. (See Weber, Clifford P., assignor.)
Duchesne, Ernest, Schenectady, N. Y. Boiler plug expander. 1,921,810; Aug. 8.
Du Grenier, Arthur H., deceased; F. C. Du Grenier, administrator, assignor of one-half to Francis C. Du Grenier and one-half to Blanche E. Bouchard, Haverhill, Mass. Check testing mechanism. 1,921,611; Aug. 8.
Du Grenier, Francis C., Haverhill, Mass. Dispensing machine. 1,921,610; Aug. 8.
Du Grenier, Francis C., administrator. (See Du Grenier, Arthur H.)
Du Grenier, Francis C., et al. (See Du Grenier, Arthur H., assignor.)
Dunham, C. A., Company. (See Taylor, E. A., Pence and Dunham, assignors.)
Dunham, Clayton A. (See Taylor, E. A., Pence and Dunham.)
Dunham Company, The. (See Wolfe, Leonard W., assignor.)
Dunlap, Alfonso H., Chattanooga, Tenn. Portable bowling alley. 1,921,734; Aug. 8.
Dunlop Rubber Company Limited. (See Murphy, E. A., Owen, and Twiss, assignors.)
Dunlop Rubber Company Limited. (See Paull, Wallace H., assignor.)
Dunlop Rubber Company. (See Twiss, D. F., Neale, and Carpenter, assignors.)
Du Pont, E. I., de Nemours & Company. (See Frei, John, assignor.)
Du Pont, E. I., de Nemours & Company. (See Gauerke, Chester G., assignor.)
Du Pont, E. I., de Nemours & Co. (See Schrauth, Walther, assignor.)
Du Pont Rayon Company. (See Niogret, Henri F., assignor.)
Dura Company, The. (See Floraday, Burton S., assignor.)
Durener Metallwerke Aktiengesellschaft. (See Meissner, Karl L., assignor.)
Durkee, E. W., Last Company. (See Durkee, Ernest W., assignor.)
Durkee, Ernest W., assignor to E. W. Durkee Last Manufacturing Company, Lynn, Mass. Rebuilding lasts. 1,920,974; Aug. 8.
Duro Metal Products Company. (See Hawkins, Walter L., assignor.)
Dusopolos, Theologue G., Boston, Mass. Shoe heel. 1,921,663; Aug. 8.
Eastman, Harold L., assignor to Hartford-Empire Company, Hartford, Conn. Duplex control system. 1,921,385; Aug. 8.
Eastman Kodak Company. (See Case, Charles Z., assignor.)
Eastman Kodak Company. (See Crabtree, John I., assignor.)
Eastman Kodak Company. (See Crabtree, J. I., and Ives, assignors.)
Eastman Kodak Company. (See Fritts, Edwin C., assignor.)
Eastman Kodak Company. (See Riddell, William A., assignor.)
Eastman Kodak Company. (See Seymour, Merrill W., assignor.)
Eastman Kodak Company. (Se Shappard, Samuel S., assignor.)
Eastman Kodak Company. (See Smith, Kenneth S., assignor.)
Eastman Kodak Company. (See Stephens, Levi T., assignor.)
Eastman Kodak Company. (See Stewart, Donald H., assignor.)
Eastman Kodak Company. (See Webber, C. S., and Staud, assignors.)
Eastman Kodak Company. (See Wellman, H. C., and Green, assignors.)
Eastman Kodak Company. (See Weyerts, W. J., and Hickman, assignors.)
Eastman Machine Company et al. (See Clark, Frederick J., assignor.)
Eber, George L., New York, N. Y. Adjustable latch or closure device. 1,920,976; Aug. 8.
Eber, George L. and J., Bronx, N. Y. Adjustable latch or closure device. 1,920,975; Aug. 8.
Eber, Jacob. (See Eber, George L. and J.)
Ebert, Georg, F. A. Fries, and P. Garbsch, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie, Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of polymerization products of diolefines. 1,921,867; Aug. 8.
Eckerson, Frank E., Pittsfield, Mass. Burglar trap. 1,921,967; Aug. 8.
Eclipse Aviation Corporation. (See Allen, Joseph W., assignor.)
Eclipse Aviation Corporation. (See Nowosielski, Edward B., assignor.)
Eclipse Machine Company. (See Chilton, Roland, assignor.)
Eclipse Machine Company. (See McNeil, Charles I., assignor.)
Edman, Martin W., Oxford, Mich. Disintegrating machine. 1,921,914; Aug. 8.
Edmonson, Richard Q. (See McLean, G. J., and Edmonson.)
Edwards, O. M., Company, The. (See Axe, Roy T., assignor.)
Edwards, O. M., Company, The. (See Edwards, Oliver M., assignor.)
Edwards, Oliver M., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Window sash construction. 1,921,386; Aug. 8.
Edwards, William H., Great Neck, N. Y., assignor to American Telephone and Telegraph Company. Telephone pay station apparatus. 1,921,071; Aug. 8.
Edwards, William H., Great Neck, N. Y., assignor to American Telephone and Telegraph Company. Telephone pay station apparatus. 1,921,072; Aug. 8.
Eger, Ludwig, New York, N. Y. Cork remover. 1,921,811; Aug. 8.
Egyesült Izzólámpa és Villamossagi rt. (See Selényi, Paul, assignor.)
Eichholz, William, Cicero, and R. W. Lentwiler, Chicago, assignors to Illinois Engineering Company, Chicago, Ill. Thermostat. 1,921,312; Aug. 8.
Eksergian, Carolus L., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Differentially truing wire wheels. 1,921,223; Aug. 8.
Electric Incinerators Incorporated. (See Sword, Rowland P., assignor.)
Electric Machinery Manufacturing Company. (See Nelson C. C., and Crosby, assignors.)
Electrical Research Products, Inc. (See Morgan, Kenneth F., assignor.)
Electrolux Corporation. (See Ell, Lars, assignor.)
Electro Metallurgical Company. (See Becket, Frederick M., assignor.)
Ell, Lars, Stockholm, Sweden, assignor, by mesne assignments, to Electrolux Corporation. Vacuum cleaner. Re18,915; Aug. 8.
Elliott, Harmon P. (See Blake, Preble W., assignor.)
Elliott, Harmon P., Watertown, Mass. Printing machine. 1,921,511; Aug. 8.
Elliott, Harmon P., Watertown, Mass. Stencil printing and copying machine. 1,921,512; Aug. 8.
Elliott, Roff, Watertown, Mass. Addressing machine. 1,921,565; Aug. 8.
Ellis, George H., and H. C. Olpin, Spondon, near Derby, England, assignors to Celanese Corporation of America. Manufacture of basic derivatives of anthraquinone. 1,921,458; Aug. 8.
Elrick, Frank S., Elgin, Ill. Hot water generator. 1,921,735; Aug. 8.
Emmons, Arthur N., Nedrow, assignor to The Porter-Cable Machine Company, Syracuse, N. Y. Floor finishing machine. 1,921,513; Aug. 8.
Endacott, Paul S., Detroit, Mich., assignor to Phillips Petroleum Company, Bartlesville, Okla. Delivery system. 1,921,968; Aug. 8.
Engel, Frank. (See Moore, E., and Engel.)
England, James C., Knoxville, Tenn. Pipe. 1,921,073; Aug. 8.
Erade, Charles J., Brussels, Belgium. Carburetor. 1,921,736; Aug. 8.
Erban Patents Corporation. (See Erban, Richard, assignor.)
Erban, Richard, Vienna, Austria, assignor to Erban Patents Corporation. Control mechanism for power transmission gears. 1,921,459; Aug. 8.
Erdahl, Nicholai M., assignor to Highway Trailer Company, Edgerton, Wis. Pole setting apparatus. 1,921,812; Aug. 8.
Erickson, Edward E., Moline, Ill. Rope clamp. 1,921,286; Aug. 8.
Ervin, Charles E., Terre Haute, Ind. Soft collar pin. 1,921,969; Aug. 8.
Es-B-Es Co. (See Dannheiser, Joseph M., assignor.)
Ettinger, Joe J., assignor to Zimmer Manufacturing Company, Warsaw, Ind. Surgical splint. 1,921,987; Aug. 8.
Euring, August, Richmond Hill, N. Y. Garden chair. 1,921,460; Aug. 8.
Evans, George S., Bronxville, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Purification of copper. 1,921,180; Aug. 8.
Evans, George S., Bronxville, assignor to The Mathieson Alkali Works, New York, N. Y. Melting nonferrous metals. 1,921,868; Aug. 8.
Ewald, Wolfgang F., assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany. Making coils possessing accurate inductance. 1,921,869; Aug. 8.
Exner, Louis F., Niles, Mich. Window. 1,921,074; Aug. 8.
Failing, George E. (See Chambers, Ira L., assignor.)
Fairfield Specialties Corporation. (See Hoban, Fairfield W., assignor.)

Farkas, Eugene J., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Brake. 1,921,287; Aug. 8.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor governor. 1,921,609; Aug. 8.
Farmer, Dora L., and T. B. Farmer, Portland, Oreg. Cable reel for electric appliances. 1,921,288; Aug. 8.
Farmer, Thomas B. (See Farmer, Dora L. and T. B.)
Farrell, Robert J., Waynesburg, Pa. Nail. 1,921,514; Aug. 8.
Farrell, Robert J., Waynesburg, Pa. Making wire nails. 1,921,515; Aug. 8.
Fatherley, Robert E., Darien, Conn. Textile fabric or the like. Des. 90,437; Aug. 8.
Fawcett, Harold W., Harrogate, England. Centrifugal separator. 1,921,181; Aug. 8.
Feeny, William S., Philadelphia, Pa. Head rod holder. 1,921,813; Aug. 8.
Fehrle, Alfred. (See Streitwolf, K., Fehrle, Herrmann, and Fritzsche.)
Feldman, Bernard, Newton, Mass. Combined insole and shank. 1,921,970; Aug. 8.
Fenaille, Pierre, Paris, France. Universal coupling for machine elements. 1,921,737; Aug. 8.
Ferguson, Ray, Escatawpa, Miss. Brooder house. 1,921,352; Aug. 8.
Ferguson, William E., Orange Cove, Calif. Crank gear for plunger pumps. 1,921,182; Aug. 8.
Fertsch, Ferdinand, and H. Hartinger, assignors to the Firm Carl Zeiss, Jena, Germany. Contact glass. 1,921,971; Aug. 8.
Fertsch, Ferdinand, and H. Hartinger, assignors to the Firm Carl Zeiss, Jena, Germany. Contact glass. 1,921,972; Aug. 8.
Field, Joseph C., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alarm system. 1,921,024; Aug. 8.
Files, Adino F., assignor to The Files Packeting Machine Company, Maumee, Ohio. Food fat and oil coloring material. 1,921,738; Aug. 8.
Files Packeting Machine Company, The. (See Files, Adino F., assignor.)
Finch, Willis E. (See Stimpson, W. F., and Finch.)
Finigan, Edwin P., San Francisco, Calif. Spring board. 1,921,664; Aug. 8.
Finley, Charles A., North Tonawanda, assignor to Remington Rand Inc., Buffalo, N. Y. Filing cabinet. 1,921,387; Aug. 8.
Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole laying machine. 1,920,977; Aug. 8.
Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming machine. 1,921,075; Aug. 8.
Fisher, Frank E., Elmira, N. Y. Spring shackle. 1,921,665; Aug. 8.
Fisk, Gustaf L., assignor to Mesta Machine Company, Pittsburgh, Pa. Cooling bed. 1,921,353; Aug. 8.
Fisk Rubber Company, The. (See Mather, George L., assignor.)
Fisk Rubber Company, The. (See Maynard, Charles E., assignor.)
Fisk Rubber Company, The. (See Soulen, Harry B., assignor.)
Fleischmann, Karl, Flensburg-Murwik, assignor to firm Aug. Klönne, Dortmund, Germany. Apparatus for extinguishing burning oil wells. 1,921,739; Aug. 8.
Fleming, Ralph R., Paterson, N. J. Vacuum valve. 1,921,915; Aug. 8.
Flood, Carl A., assignor to Dennison Manufacturing Company, Framington, Mass. Pin ticket. 1,921,814; Aug. 8.
Floraday, Burton S., assignor to The Dura Company, Toledo, Ohio. Seat construction. 1,921,224; Aug. 8.
Florman, Irving, New York, N. Y. Electric water heater or the like. Des. 90,438; Aug. 8.
Florman, Irving, New York, N. Y. Combined cigarette case nad lighter. 1,921,354; Aug. 8.
Flower, Archibald T., Jenkintown, Pa. Portable pump. 1,921,916; Aug. 8.
Flowers, Henry F., Findlay, Ohio. Yielding door mechanism. 1,921,917; Aug. 8.
Foley, Joseph J., Chicago, Ill. Ventilator for motor vehicle window. Des. 90,439; Aug. 8.
Food Machinery Corporation. (See Thompson, Albert R., assignor.)
Foote, Edward B., assignor to Taylor Instrument Companies, Rochester, N. Y. Apparatus for controlling industrial processes. 1,921,740; Aug. 8.
Foote, Edward B., and F. B. Newell, assignors to Taylor Instrument Companies, Rochester, N. Y. Apparatus for controlling industrial processes. 1,921,741; Aug. 8.
Ford Motor Company. (See Anderson, Bennett R., assignor.)
Ford Motor Company. (See Crecelius, Henry R., assignor.)
Ford Motor Company. (See Farkas, Eugene J., assignor.)
Ford Motor Company. (See Hicks, Harold A., assignor.)
Ford Motor Company. See Rivard, Lawrence B., assignor.)
Ford Motor Company. (See Smith, Charles J., assignor.)
Forman, Alfred M. (See Smith, H. L., Rathbun, and Forman.)
Fort, Louis, Jersey City, N. J. Insulator. 1,920,978; Aug. 8.
Foust, Donald B., Bethlehem, Pa. Power transmission mechanism. 1,921,406; Aug. 8.
Fox, Merritt L., assignor to Houde Engineering Corporation, Buffalo, N. Y. Hydraulic shock absorber with remote control and adjusting device. 1,921,025; Aug. 8.
Francoise, Edward C., Parchment, assignor to Kalamazoo Vegetable Parchment Company, Kalamazoo, Mich. Preventing offsets. 1,921,318; Aug. 8.
Franklin, John L., Atlanta, Ga. Announcing apparatus. 1,921,742; Aug. 8.
Fransosi, Antonio, Providence, R. I. Oil burner. 1,921,666; Aug. 8.
Franzen, Hans, Mannheim, and R. Heid, Leverkusen, assignors to I. G. Farbenindustrie, Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of valuable products from tall oil. 1,921,566; Aug. 8.
Frappier, Louis S., and E. Boecking, Brooklyn, assignors to International Projector Corporation, New York, N. Y. Film magazine closure. 1,921,870; Aug. 8.
Fraser, Frank, and G. B. Watkins, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Producing laminated glass. 1,921,612; Aug. 8.
Fraser, Warren F., Westboro, assignor to Norton Company, Worcester, Mass. Feeding mechanism for machine tools. 1,920,979; Aug. 8.
Frederick, Louis T., Valparaiso, Ind., assignor to Continental Diamond Fibre Company, Newark, Del. Making tubes. 1,921,516; Aug. 8.
Frederick Snare Corporation. (See Stephenson, Laurence E., assignor.)
Freedman, Hyman, Brooklyn, N. Y. Dental bridge. 1,921,613; Aug. 8.
Frei, John, jr., Chicago, Ill. Illuminated artificial plant. 1,921,614; Aug. 8.
Frei, John, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of aryl-alpha-naphthylamines. 1,921,076; Aug. 8.
Fried. Krupp Grusonwerk Aktiengesellschaft. (See Johannsen, Friedrich, assignor.)
"Friend" Manufacturing Company. (See Hull, John C., assignor.)
Fries, Friedrich. (See Ebert, G., Fries, and Garbsch.)
Fritts, Edwin C., assignor to Eastman Kodak Company, Rochester, N. Y. Film winding signal device. 1,921,517; Aug. 8.
Fritzsche, Paul. (See Streitwolf, K., Fehrle, Herrmann, and Fritzsche.)
Frohisher, Ralph S., Portsmouth, N. H., assignor to Bemis Industries, Incorporated, Boston, Mass. Insulating block. 1,921,518; Aug. 8.
Froeschl, Otto P., et al. (See Bailey, Charles W., assignor.)
Froeschl, Paul A., et al. (See Bailey, Charles W., assignor.)
G-M Laboratories, Inc. (See McMaster, Archie J., assignor.)
Gaidos, Alonzo F., Redwood City, Calif. Magazine for rapid fire arms. 1,921,871; Aug. 8.
Galbraith, Gordon B., Roselle, N. J. Soft collar. 1,921,872; Aug. 8.
Gale, William A. (See Ritchie, C. F., Gale, and Allen.)
Garbsch, Paul. (See Ebert, G., Fries, and Garbsch.)
Garl, Linnie, executrix. (See Garl, Manious, assignor.)
Garl, Manious, deceased, Akron, Ohio; L. Garl, executrix, assignor to L. Garl. Combined fire and police alarm system. 1,921,615; Aug. 8.
Garman, William, New York, N. Y. Collapsible support for tables, chairs, etc. 1,921,026; Aug. 8.
Garrison, Forrest C., Evanston, assignor to The Oscar C. Rixson Co., Chicago, Ill. Door closer and check. 1,921,314; Aug. 8.
Garstang, William W., Indianapolis, Ind. Protecting current-interrupter in B battery eliminators. 1,921,461; Aug. 8.
Gaston, Fred A., Micanopy, Fla., assignor to Atlas Foundry Company, Irvington, N. J. Automatic temperature regulator. 1,921,667; Aug. 8.
Gauerke, Chester G., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making synthetic resins and coating-compositions containing them. 1,920,980; Aug. 8.
Gauger, Albert F., Detroit, Mich. Windshield. 1,921,519; Aug. 8.
Gebr. Staubli & Co. (See Grossmann, Hans, assignor.)
Geddes, Leslie H. (See Kelly, Edward, assignor.)
Gemmer, George A., Newark, N. J., assignor to Bendix Brake Company, Chicago, Ill. Lost-motion connection for brake mechanisms. 1,921,156; Aug. 8.
General Aniline Works, Inc. (See Kränzlein, G., Greune, Cornell, and Vollmann, assignors.)
General Aniline Works, Inc. (See Laska, L., and Zitscher, assignors.)
General Aniline Works, Inc. (See Laska, L., Zitscher, and Koch, assignors.)
General Aniline Works, Inc. (See Schneevoigt, A., and Krzikalla, assignors.)
General Aniline Works, Inc. (See Wahl, O., Müller, Kohn, and Teupel, assignors.)
General Aniline Works, Inc. (See Wiedemann, K., and Clingestein, assignors.)
General Aniline Works, Inc. (See Zervas, P., and Clingestein, assignors.)
General Cable Corporation. (See Crowell, Ray O., assignor.)

General Chemical Company. (See Gillett, Lowry, assignor.)
General Chemical Company. (See Harkness, Andrew M., assignor.)
General electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Blume, Louis F., assignor.)
General Electric Company. (See Champlin, Franklin J., assignor.)
General Electric Company. (See Guy, Henry L., assignor.)
General Electric Company. (See Hutt, Leonard P., assignor.)
General Electric Company. (See Kienle, R. H., and Schelber, assignors.)
General Electric Company. (See Kienle, Roy H., assignor.)
General Electric Company. (See Lum, Walter O., assignor.)
General Electric Company. (See MacGregor, Alexander S., assignor.)
General Electric Company. (See Nickle, Clifford A., assignor.)
General Electric Company. (See Schmidt, August, jr., assignor.)
General Electric Company. (See Stöhr, Max, assignor.)
General Electric Company. (See Suits, Chauncey G., assignor.)
General Electric Company. (See West, Harry R., assignor.)
General Salt Company. (See Cottrell, Frederick G., assignor.)
General Steel Castings Corporation. (See Meyer, William H., assignor.)
Gerlach, Oscar, Peru, assignor to Matthiessen & Hegeler Zinc Co., La Salle, Ill. Purifying zinc ore. 1,921,743; Aug. 8.
Germond, Henry S. (See De Lamar, Rudolph E., assignor.)
Gerould, Edwin M., Beach Bluff, Mass. Portable refreshment booth. 1,921,251; Aug. 8.
Gey, Theodore A., Norristown, Pa. Poultry leg band. 1,921,077; Aug. 8.
Gibbs, John L., Bronxville, assignor to American Lithographic Company, Inc., New York, N. Y. Calendar. 1,921,815; Aug. 8.
Gibbs, William J., Brooklyn, assignor to The Lamson Company, Syracuse, N. Y. Conveyer. 1,920,981; Aug. 8.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., North Haven, assignor to The A. C. Gilbert Company, New Haven, Conn. Toy for horticultural purposes. 1,921,027; Aug. 8.
Gilbert & Barker Manufacturing Company. (See Spear, Leolyn F., assignor.)
Gillen, George A., Bronx, assignor to Gillen, Kimmey, Baker Syndicate, Inc., New York, N. Y. Fuel injector. 1,921,873; Aug. 8.
Gillen, Kimmey, Baker Syndicate, Inc. (See Gillen, George A., assignor.)
Gillett, Lowry, Syosset, assignor to General Chemical Company, New York, N. Y. Apparatus for burning sulphur. 1,921,289; Aug. 8.
Girard Model Works, Inc., The. (See Smith, Anthony M., assignor.)
Glascock, Harry, assignor to The P O B Manufacturing Company, Cincinnati, Ohio. Brake rod support. 1,921,028; Aug. 8.
Glomb, John C., Bradfordwoods Borough, Pa. Cigarette extinguisher. 1,921,874; Aug. 8.
Godefroy Manufacturing Company. (See De Vaulchier, Simon, assignor.)
Goldsborough, Winder E., South Norwalk, Conn., assignor to Doherty Research Company, New York, N. Y. Eccentric driven high pressure pump. 1,921,816; Aug. 8.
Goldstein, Richard F., Sedgley Park, Prestwich, and A. Y. Livingstone, Huddersfield, England, assignors to Imperial Chemical Industries, Limited. Dyeing. 1,921,078; Aug. 8.
Goldstein-Wilkins Corporation. (See Christen, Marcel, assignor.)
Goldstein Wilkins Corporation. (See Cusson, Sylvain, assignor.)
Goldstein-Wilkins Corporation. (See Speck, Walter, assignor.)
Goltry, Edwin L., Red Oak, Iowa. Combined shackle and bearing mounting for vehicle springs. 1,922,000; Aug. 8.
Goltry, Edwin L., Red Oak, Iowa. Spring structure. 1,922,001; Aug 8.
Goodell, Frank H., East Cleveland, and J. E. Chinnock, assignors to The C. O. Bartlett & Snow Company, Cleveland, Ohio. Sheet handling mechanism. 1,921,744; Aug. 8.
Goodrich, B. F., Company, The. (See Hushhalter, Fred L., assignor.)
Goodrich, B. F., Company, The. (See Kmentt, Waldemar D., assignor.)
Goodrich, B. F., Company. (See Legulllon, Charles W., assignor.)
Goodrich, B. F., Company, The. (See Semon, Waldo L., assignor.)
Goodrich, B. F., Company, The. (See Semon, W. L., and Jones, assignors.)
Goodwin, Ellis D., Sioux City, Iowa. Color photographic system. 1,921,918; Aug. 8.
Gorham Mfg. Co. (See Staf, Axel H., assignor.)
Goretzky, Johann, Reichenberg, Czechoslovakia. Device for the manufacturing of knotted carpets and the like. 1,921,355; Aug. 8.
Governa, Francis X., Vincennes, Ind, assignor to Indian Refining Company, Lawrenceville, Ill. Heating element. 1,921,988; Aug. 8.
Grace, Richard W., assignor to The Superior Switchboard & Devices Company, Canton, Ohio. Wire terminal. 1,921,745; Aug. 8.
Grace, Richard W., assignor to The Superior Switchboard & Devices Company, Canton, Ohio. Test block. 1,921,746; Aug. 8.
Graf, Albert, Chicago, Ill. Attaching a sponge rubber pad to a backing member. 1,921,252; Aug. 8.
Gragg, Frances E., and L. B. Cohn, Los Angeles, Calif. Vehicle side signal. 1,921,290; Aug. 8.
Graham, Earl S., Dallas, Tex., assignor to Inside Tray Company. Serving table. 1,921,462; Aug. 8.
Graham, Earl S., Dallas, Tex., assignor to Inside Tray and treating the same. 1,921,668; Aug. 8.
Grant, John. (See Santiago, James J., assignor.)
Gravell, Edgar A. (See Gravell, Frank F. and E. A.)
Gravell, Frank F., Rochester, N. Y., and E. A. Gravell, Milford, Conn. Stair building tool. 1,921,356; Aug. 8.
Gravell, James H., Elkins Park, Pa. Organic compound and treating the same. 1,921,668; Aug. 8.
Gray, Chester E., and G. D. Turnbow, Oakland, Calif. Method and apparatus for separating coins. 1,921,669; Aug. 8.
Gray, Elmer E., Saugus, Mass. Envelope sealing machine. 1,921,119; Aug. 8.
Great Western Fuse Company. (See LaMar, Frank C., assignor.)
Grebe, Albert. (See Jonson, G. W., and Grebe.)
Green, Clifford H., Paris Township, Kent County, Mich., assignor, by mesne assignments, to Automatic Musical Company. Mechanism for feeding to, and clamping bodies in, machines. 1,921,898; Aug. 8.
Green, Newton B. (See Wellman, H. C., and Green.)
Green, Wyman R., Chattanooga, Tenn. Hedge trimmer. 1,921,520; Aug. 8.
Greene, Frank C., Milwaukee, Wis. Fire unit for furnaces. 1,921,253; Aug. 8.
Greist, Hubert M., and G. J. La Vigne, assignors to Greist Manufacturing Company, New Haven, Conn. Lamp. 1,921,875; Aug. 8.
Greist Manufacturing Company. (See Greist, H. M., and La Vigne, assignors.)
Grether, Ernest F., assignor to The Dow Chemical Company, Midland, Mich. Amino alpha-phenoxy naphthalene. 1,921,120; Aug. 8.
Greune, Heinrich. (See Krinstein, G., Greune, Corell, and Vollmann.)
Greve, Edgar E., Bellevue, assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa. Rotary pump or the like. 1,921,747; Aug. 8.
Griffith, Ronald G., assignor to Creed and Company, Limited, Croydon, England. Telegraph transmitting apparatus. Telegraph transmitting apparatus. 1,921,407; Aug. 8.
Grigsby-Grunow Company. (See Kenney, M. W., and Vickers, assignors.)
Grine, Harry A., White Plains, N. Y. Domestic heater. 1,921,817; Aug. 8.
Griscom-Russell Company, The. (See Jones, R. C., and Colston, assignors.)
Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Orbital lathe. 1,921,919; Aug. 8.
Grometstein, Israel, Bronx, N. Y. Percolator coffee pot. 1,921,748; Aug. 8.
Grossman, Hans, Hongg, near Zurich, assignor to Gebr. Stauhli & Co., Horgen, Switzerland. Shedding device for dobies. 1,921,521; Aug. 8.
Grund, William H., et al., trustee. (See Connell, Sidney, assignor.)
Grunwald, Albert C., River Forest, assignor to Precision Metal Workers, Chicago, Ill. Match book holder for ash receptacles. 1,921,876; Aug. 8.
Gulick, Edward J., Elkhart, Ind. Float-controlled suction intake device for forced feed lubricating systems. 1,921,670; Aug. 8.
Gutgesell, William F., assignor to The Tabulating Machine Company, Endicott, N. Y. Record controlled machine. 1,921,408; Aug. 8.
Gutmann, Ferdinand, & Co. (See Cohn, Benno, assignor.)
Guy, Henry L., Hale, England, assignor to General Electric Company. Elastic fluid turbine. 1,922,017; Aug. 8.
Haagen, Charles W., assignor to S. L. Allen & Co., Inc., Philadelphia, Pa. Coaster wagon. 1,921,818; Aug. 8.
Haas, Clarence C. (See Kriegbaum, G. M., Brooks, and Haas.)
Haas, Clarence C. (See Kriegbaum, G. M., and Haas.)
Haas, William F., Rockaway, Long Island, N. Y. Button. Des. 90,440; Aug. 8.

Hacker, Emanuel M., New York, assignor of one-half to D. Usdan, Lawrence, N. Y. Cellophane and fancy paper products and the like. 1,921,819; Aug. 8.
Hackett, George V., Independence, Mo., assignor to Standard Oil Company (Indiana), Chicago, Ill. Floating roof for tanks. 1,921,877; Aug. 8.
Haehnel, Wolfram. (See Herrmann, W. O., and Haehnel.)
Hagan, George J., Company. (See Talley, Randal E., assignor.)
Haggard & Marcusson Company. (See Vanderploeg, Henry, assignor.)
Hall, Edwin L., assignor to The United Gas Improvement Company, Philadelphia, Pa. Carburetted water gas method. 1,922,018; Aug. 8.
Hall, Horace W., Newton, Mass. Racket bow. 1,921,616; Aug. 8.
Hallawell, Austin M. (See Whitaker, A., and Hallawell.)
Haller, Robert, Riehen, near Basel, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Obtaining reserves under azo-dyestuffs. 1,921,920; Aug. 8.
Halstead, Ralph T. (See Pratt, W. B., and Halstead.)
Hamel, Frank W., Detroit, Mich. Overjacket for molds. 1,921,671; Aug. 8.
Hamer, Leland S., Long Beach, assignor of one-half to J. W. MacClatchie, Compton, Calif. Well bore feeler. 1,921,522; Aug. 8.
Hamilton, Baxter P., River Edge, N. J., assignor to American Telephone and Telegraph Company. Telegraph system. 1,921,079; Aug. 8.
Hammeral, Frank J., Akron, Ohio. Electric cigar and cigarette lighter. 1,921,254; Aug. 8.
Hammond, Grant, New Haven, Conn. Deinking apparatus. 1,921,080; Aug. 8.
Hammond, William C. (See Larson, C. B., and Hammond.)
Handwerk, Erwin C., and G. T. Mahler, Palmerton, Pa., assignors to The New Jersey Zinc Company. Reducing zinciferous material. 1,921,820; Aug. 8.
Handy Governor oCrporation. (See Bull, A. A., and Wood, assignors.)
Handy & Harman. (See Leach, Robert H., assignor.)
Hanffstengel, Georg V., assignor to Maschinenfabrik Augsburg-Nurnberg, A.-G., Nuremberg, Germany. Waterless gasometer. 1,921,617; Aug. 8.
Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Supply circuit for amplifiers. 1,921,858; Aug. 8.
Hanson, Harry R., San Francisco, Calif. Dump body for trucks and the like. 1,921,291; Aug. 8.
Hanson, Roy E., Huntington Park, Calif. Differential pressure device. 1,921,567; Aug. 8.
Harkness, Andrew M., Nyack, assignor to General Chemical Company, New York, N. Y. Filter. 1,921,296; Aug. 8.
Harries, John H. O., Frinton-on-Sea, England. Method and apparatus for the recording and projection of pictures, images, and the like. 1,921,464; Aug. 8.
Harris, John E. G. (See Barnes, R. S., Harris, and Thomas.)
Hart, Raymond D. (See Layhon, Arthur J., assignor.)
Hart, Thomas H., Birmingham, England. Golf and other playing ball. 1,921,523; Aug. 8.
Hartford-Empire Company. (See Barker, William T., jr., assignor.)
Hartford-Empire Company. (See Eastman, Harold L., assignor.)
Hartford-Empire Company. (See Ingle, Henry W., assignor.)
Hartford-Empire Company. (See Lorenz, Edward H., assignor.)
Hartinger, Hans. (See Fertsch, F., and Hartinger.)
Hartsell Industries, Inc. (See Hartsell, Robert N., assignor.)
Hartsell, Robert N., assignor to Hartsell Industries, Inc., Piqua, Ohio. Making veneer and a veneer machine. 1,921,183; Aug. 8.
Hartsell, Robert N., assignor to Hartzell Industries, Inc., Piqua, Ohio. Making veneer and a new article of veneer. 1,921,184; Aug. 8.
Harvel Corporation, The. (See Crammond, E. D., and Hughes.)
Harvel Corporation, The. (See Harvey, Mortimer T., assignor.)
Harvey, Mortimer T., East Orange, N. J. Composition and making and using the same. 1,921,292; Aug. 8.
Harvey, Mortimer T., East Orange, assignor to The Harvel Corporation, Newark, N. J. Product and process of reacting cashew nut shell liquid with paraformaldehyde. 1,921,293; Aug. 8.
Harvie, Walter E., Portland, Maine. Sponge washer. 1,921,921; Aug. 8.
Hasselberger, Louisa E., East Hampton, N. Y. Doorstop. 1,921,568; Aug. 8.
Haug, Eugene H., assignor of one-third to H. E. Young and one-third to E. S. Taylor, Chicago, Ill. Driving mechanism. 1,921,749; Aug. 8.
Hauptner, Rudolf, Berlin, Germany. Nose ring fitting apparatus. 1,921,618; Aug. 8.
Hanshalter, Fred L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Ball mill lining. 1,921,672; Aug. 8.
Hawe, John E., St. Paul, Minn., assignor to Railway Engineering Equipment Company, Chicago, Ill. Locomotive terminal. 1,921,878; Aug. 8.
Hawkins, Walter L., St. Louis, Mo., assignor to Dure Metal Products Company, Chicago, Ill. Spare wheel lock. 1,921,225; Aug. 8.
Hayden, Harold E., Brooklyn, N. Y. Signal receiving system. 1,921,226; Aug. 8.
Haseltine Corporation. (See MacDonald, William A., assignor.)
Head, Drew, Chicago, Ill. Shock absorber. 1,921,121; Aug. 8.
Head, Drew, Chicago, Ill. Steering gear mechanism. 1,921,122; Aug. 8.
Heath, Annie E., et al. (See Anderson, Mabel V., assignor.)
Heath, Sheldon B., and M. O. Keller, assignors to The Dow Chemical Company, Midland, Mich. Purifying ethylene dibromide. 1,921,157; Aug. 8.
Heath, Sheldon B., and F. R. Minger, assignors to The Dow Chemical Company, Midland, Mich. Making hydrochloric acid. 1,921,388; Aug. 8.
Heaton, Herman C., Chicago, Ill. Gas generator. 1,921,465; Aug. 8.
Hechenbleikner, Ingenuin, Charlotte, N. C., assignor, by mesne assignments, to Chemical Construction Corporation. Nitric acid concentration. 1,921,255; Aug. 8.
Heckmanns, Franz. (See Rath, C., and Heckmanns.)
Hedrich, Richard, Los Angeles, assignor of one-half to Percy R. Bissell, Glendale, Calif. Producing building slabs. 1,920,982; Aug. 8.
Heering, Harald, Copenhagen, Denmark. Scoring device for contract bridge. 1,921,673; Aug. 8.
Heineman, Warren F., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Aligning edges for flash welding tubes. 1,921,227; Aug. 8.
Heinrich, Richard, and H. Zipprian, Kothen, Germany, assignors to Carl Nebrich, Prague-Smichow, Tzechoslo. Centrifugal separator for straining pulpy material, such as wood pulp, cellulose, paper pulp and the like. 1,921,750; Aug. 8.
Held, Robert. (See Franzen, H., and Held.)
Heltzel, John N., Warren, Ohio. Road reenforcement and joint. 1,921,081; Aug. 8.
Heltzel, John N., Warren, Ohio. Surfacing roads. 1,921,185; Aug. 8.
Hempy-Cooper Manufacturing Company. (See Mattern, H. T., and Lindstrom, assignors.)
Henderson, Leonard. Oiton, assignor to Metal Sections Limited, Birmingham, England. Connection with continuous rolling machines and the like. 1,921,357; Aug. 8.
Henderson, Loyal C., Asbury Park, N. J. Game. 1,921,186; Aug. 8.
Henrikson, Arthur G., assignor of one-half to F. B. Perry, Providence, R. I. 1,921,082; Aug. 8.
Henry, Charles L., assignor to Lee C. Moore & Company, Inc., Pittsburgh, Pa. Derrick. Des. 90,441; Aug. 8.
Henry, Charles L., assignor to Lee C. Moore & Company, Inc., Pittsburgh, Pa. Derrick. Des. 90,442; Aug. 8.
Herbaman, Abraham M., Huntington Park, Calif. Treating petroleum emulsions. 1,921,751; Aug. 8.
Herdey, Otto R. (See Rühlemann, F., and Herdey.)
Herr, Frank E., Lancaster, Pa. Oil burner. 1,921,922; Aug. 8.
Herrmann, Conrad, Wuppertal-Elberfeld, Germany, assignor to American Glanzstoff Corporation, New York, N. Y. After treatment of filaments. 1,921,123; Aug. 8.
Herrmann, Walter. (See Streitwolf, K., Fehrle, Herrmann, and Fritsche.)
Herrmann, Willy O., and W. Haehnel, assignors to Consortium für Elektrochemische Industrie, Munich, Germany. Ice cream and preparing same. 1,921,124; Aug. 8.
Herrmann, Willy O., and E. Baum, assignors to Consortium für Elektrochemische Industrie G. m. b. H. Munich, Germany. Producing dichlorethylene 1,921,879; Aug. 8.
Hertel, Richard K. (See Smith, N. K., and Hertel.)
Hertz, Stanislas, and M. P. Berger, Paris, France. Starting apparatus for rotary engines. 1,921,880; Aug. 8.
Hess, Albert L., assignor to Cycletow Corporation, Ltd. Los Angeles, Calif. Towable motor cycle. 1,921,029; Aug. 8.
Hess, Bryce M., Chicago, Ill. Mirror-equipped structure. 1,921,752; Aug. 8.
Hessle, Eric T., Lockport, assignor to Mid-West Chemical Company, Chicago, Ill. Insecticide. 1,921,158; Aug. 8.
Hetherington, George B., assignor to A. O. Smith Corporation, Milwaukee, Wis. Spacer for piling pipe. 1,921,228; Aug. 8.
Hewitt, Ernest W., Stamford, Conn., and S. W. Rothermel, Lynbrook, assignors to The Western Union Telegraph Company, New York, N. Y. Motor control circuit for telegraph printers. 1,921,990; Aug. 8.
Heyman, Joseph K., Chicago, Ill., and A. F. Wensel, Michigan City, Ind., assignors to Reliance Manufacturing Company, Chicago, Ill. Men's underwear. Re18,914; Aug. 8.
Hickman, Kenneth C. D. (See Weyerts, W. J., and Hickman.)
Hicks, Harold A., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Airplane. 1,921,294; Aug. 8
Hiday, John B., Fortville, assignor to Delco-Remy Corporation, Anderson, Ind. Generator cooling device 1,921,030; Aug. 8.

Hiester, Theodore M., assignor to United Aircraft Products Inc., Dayton, Ohio. Multi-compartment tray and making the same. 1,921,256; Aug. 8.
Higgin Manufacturing Company, The. (See Traut, Clifford, assignor.)
Higgins, Mark F. (See Nyborg, Tage G., assignor.)
Higgins, Walter E., Waterloo, Iowa. Insect repeller. 1,921,821; Aug. 8.
Highway Trailer Company. (See Connors, G. H., and Stiff, assignors.)
Highway Trailer Company. (See Erdahl, Nicholai M., assignor.)
Hildebrandt, Frank M., Baltimore, Md., assignor to U. S. Industrial Alcohol Co., New York, N. Y. Alcoholic fermentation process and product thereof. 1,921,991; Aug. 8.
Hill, Chester A., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing soles. 1,921,083; Aug. 8.
Hill, Frank F., and A. C. Rubel, assignors to Union Oil Company of California, Los Angeles, Calif. Storage of petroleum in natural underground reservoirs. 1,921,358; Aug. 8.
Hines, John, Barnes, London, assignor to Braithwaite & Co. Engineers Limited, London, England. Manufacture of roads, yards, aerodromes, and like surfaces and means therefor. 1,921,822; Aug. 8.
Hinrichsen, Edward E., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,921,409; Aug. 8.
Hoban, Fairfield W., assignor to Fairfield Specialties Corporation, New York, N. Y. Testing coins or other tokens for genuineness. 1,921,031; Aug. 8.
Hochstetter, Paul E. (See Kruck, B. E., and Hochstetter.)
Hodge, David, assignor to The Safety Mining Company, Chicago, Ill. Self-retaining cartridge. 1,921,229; Aug. 8.
Hodges, William L., Cambridge, assignor to Bemis Industries, Incorporated, Boston, Mass. Making insulating blocks. 1,921,524; Aug. 8.
Hoe, R., & Co., Inc. (See Tomlin, John R., assignor.)
Hofer, Anton, and F. Danninger, assignors to Bergs Manufacturing Company, Milwaukee, Wis. Safe. 1,921,032; Aug. 8.
Hoffman, John R., assignor to Madison-Kipp Corporation, Madison, Wis. Fluid operated tool. 1,921,753; Aug. 8.
Hohman, Charles J., Miami, Fla. Combination sash lock. 1,920,983; Aug. 8.
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Power actuated typewriter. 1,921,159; Aug. 8.
Holding Internationale Societe Anonyme. (See Baze, Maxime, assignor.)
Holford, Harry E., assignor to Binghamton Foundry & Machine Co., Inc., Binghamton, N. Y. Coupling device for road forms. 1,921,881; Aug. 8.
Holland, Arthur A., Toronto, Ontario, Canada. Cone making machine. 1,921,160; Aug. 8.
Holle, Joseph, East Orange, N. J. Automobile heater. 1,921,466; Aug. 8.
Hollmann, Hans E., Berlin-Charlottenburg, Germany, assignor, by mesne assignments, to American Telephone and Telegraph Company. Ultra-short-wave system. 1,921,187; Aug. 8.
Hoover Company, The. (See Kitto, William H., assignor.)
Horger, Oscar J., assignor to The Timken Roller Bearing Company, Canton, Ohio. Railway car truck and journal box. 1,921,882; Aug. 8.
Horger, Oscar J., assignor to The Timken Roller Bearing Company, Canton, Ohio. Plain-roller bearing journal box. 1,921,883; Aug. 8.
Horger, Oscar J., assignor to The Timken Roller Bearing Company, Canton, Ohio. Interchangeable journal box. 1,921,884; Aug. 8.
Horsley, James H., Chicago, assignor to Shanklin Manufacturing Co., Springfield, Ill. Acetylene lamp. Des. 90,467; Aug. 8.
Horstkotte, Frederick W., Portland, Oreg. Saw mill. 1,921,569; Aug. 8.
Horton Manufacturing Company, The. (See Lagerblade, Herbert C., assignor.)
Hosking, Richard T., Wilmette, assignor, by mesne assignments, to Shakeproof Lock Washer Company, Incorporated, Chicago, Ill. Electrical connecter. 1,921,823; Aug. 8.
Houde Engineering Corporation. (See Fox, Merritt L., assignor.)
Houwen, Frederick C., Morris Plains, assignor to The Bates Manufacturing Company, West Orange, N. J. Paper fastener. 1,921,674; Aug. 8.
Hovgaard, Ole M., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Constant temperature apparatus. 1,921,433; Aug. 8.
Howard, Clifton P., and P. Lofgren, Worcester, Mass., assignors to Rockwood Sprinkler Company of Massachusetts. Ball handle. 1,921,525; Aug. 8.
Howard, Forrest K., East Falls Church, Va. Reversible feed mechanism for machine-guns. 1,920,984; Aug. 8.
Howell, Harry L., Chicago, assignor of one-third to W. J. Weichel, Elgin, one-sixth to A. Storck, Chicago, and one-sixth to F. J. Walther, Chicago, Ill. Machine for cleaning window shades. 1,921,675; Aug. 8.
Hudson Motor Car Company. (See Seger, Earl, assignor.)
Hughes, Thomas L., Youngstown, Ohio, and A. E. Twist, jr., Rutherford, N. J., assignors to Raymond Concrete Pile Company, New York, N. Y. Mandrel. 1,921,125; Aug. 8.
Hughes, William A. (See Crammond, E. D., and Hughes.)
Hughes, William E., Chicago, Ill., assignor to Sullivan Machinery Company. Pump controlling mechanism. 1,920,985; Aug. 8.
Hughes, William F., assignor to Rockford Drilling Machine Co., Rockford, Ill. Clutch. 1,921,815; Aug. 8.
Huisinga, Willem, Amsterdam, Netherlands. Traffic signal. 1,921,359; Aug. 8.
Hull, John C., assignor to "Friend" Manufacturing Company, Gasport, N. Y. Spray gun. 1,921,928; Aug. 8.
Hume, George B., and G. W. Walls, Kansas City, Mo. Incandescent lamp guard. 1,921,295; Aug. 8.
Hume, George M., Fresno, Calif. Galley. 1,921,410; Aug. 8.
Hundt & Weber Gesellschaft mit beschrankter Haftung. (See Raym, W., Mertens, and Salzer, assignors.)
Hunter, Frank B., Indianapolis, Ind. Observation port. 1,921,230; Aug. 8.
Hunter, Theodore A., assignor to The Crosley Radio Corporation, Cincinnati, Ohio. Loudspeaker motor. 1,921,924; Aug. 8.
Huntting-Merritt Lumber Co. Ltd. (See Whittall, Hubert V., assignor.)
Hussey, Erwin H., Springfield, Ohio. Forming cylinders. 1,921,824; Aug. 8.
Hutt, Leonard P., Schenectady N. Y., assignor to General Electric Company. Combined automatic and manual circuit controller. 1,921,126; Aug. 8.
Hutt, Leonard P., Schenectady, N. Y., assignor to General Electric Company. Voltage compensated refrigerator starter. 1,921,127; Aug. 8.
Hutto Engineering Company. (See Hutto, Marsden C., assignor.)
Hutto, Marsden C., Detroit, Mich., assignor to Hutto Engineering Company, Inc. Making combined abrasives and holders. 1,920,986; Aug. 8.
Hyde, Ralph E., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Die head. 1,921,754; Aug. 8.
Hyland, Lawrence A., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Coupling system. 1,921,526; Aug. 8.
Hymes, William, Kingston, N. Y. Adjustable garment cuff. 1,921,467; Aug. 8.
I. G. Farbenindustrie Aktiengesellschaft. (See Beller, H., and Luther, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Fransen, H., and Held, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Lommel, W., and Münzel, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Naumann, Max, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Tönnies, Hans F., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Webel, Franz, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Wietzel, G., and Schiller, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Zschimmer, B., and Pohl, assignors.)
Illinois Engineering Company. (See Eicholtz, W., and Leutwiler, assignors.)
Imperial Chemical Industries, Limited. (See Goldstein, R. F., and Livingstone, assignors.)
Indian Refining Company. (See Well, J. M., and Wilson, assignors.)
Ingersoll-Rand Company. (See Well, J. M., and Wilson, assignors.)
Ingle, Henry W., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Glassware transfer device. 1,921,389; Aug. 8.
Ingle, Henry W., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Glassware conveyer. 1,921,390; Aug. 8.
Inland Container Corporation. (See Bomberger, George E., assignor.)
Inside Tray Company. (See Graham, Earl S., assignor.)
International Communications Laboratories, Inc. (See Darbord, Rene H., assignor.)
International Communications Laboratories, Inc. (See Royden, George T., assignor.)
International Communications, Inc. (See Woodward, Marion H., assignor.)
International Harvester Company. (See Kriegbaum, G. M., Brooks, and Haas, assignors.)
International Harvester Company. (See Kriegbaum, G. M., and Haas, assignors.)
International Projector Corporation. (See Dina, Augusto, assignor.)
International Projector Corporation. (See Frappier, L. S., and Boecking, assignors.)
International Projector Corporation. (See Kindelmann, A., and Boecking, assignors.)
International Spotlight Corporation. (See Sklarek, Clifford, assignor.)
Ireland, George E., assignor to The City Machine & Tool Company, Toledo, Ohio. Sheet metal die. 1,921,188; Aug. 8.

Irving Trust Company, receiver. (See Tomlin, John R., assignor.)
Iversen, Poul A. S., Copenhagen, Denmark, assignor to Bendix Brake Company, Chicago, Ill. Trailer brake. 1,921,161; Aug. 8.
Ives, Charles E. (See Cabtree, J. I., and Ives.)
Jack, William A., 2d, assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Muffler. 1,921,468; Aug. 8.
Janson, Carl G. (See Wallgren, A. G. F., and Janson.)
Jennings, Chester S., assignor to The Lamson Company, Syracuse, N. Y. Pneumatic tube terminal. 1,921,891; Aug. 8.
Jennings, O. D., & Company. (See Macourek, Jerry F., assignor.)
Jensen, Martin, Penn Yang, N. Y. Door fastener. 1,921,189; Aug. 8.
Jensen, Thorvald, Wetaskiwin, Alberta, Canada. Garden implement. 1,921,973; Aug. 8.
Jessup & Moore Paper Co., The. (See Plumstead, Joseph E., assignor.)
Johann, Charles S., New York, N. Y. Gas control system. 1,921,411; Aug. 8.
Johannsen, Friedrich, Magdeburg, assignor to the Firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Recovery of metal values. 1,921,825; Aug. 8.
Johnson, Arthur L. (See Johnson, Walter J. and A. L.)
Johnson, Charles B. (See MacLean, A. D., and Johnson.)
Johnson, Claude U., assignor to P. F. Yoerger Sign Company, Columbus, Ohio. Illuminated advertising sign. 1,921,570; Aug. 8.
Johnson, Elmo W., Hicksville, N. Y. Underslung potato digger for tractors. 1,921,190; Aug. 8.
Johnson, Gustav J. (See Keaney, James B., assignor.)
Johnson, Harold, and L. O. Aune, deceased, Windom, by A. B. Welles, assignee, Minneapolis, Minn., assignor to Bendix Brake Company, South Bend, Ind. Electric brake for automobiles. Re18,912; Aug. 8.
Johnson, Orlando J., Klamath Falls, Oreg. Dental flask. 1,921,925; Aug. 8.
Johnson, Walter J., Evanston, and A. L. Johnson, Oak Park, Ill. Chair back or rest. Re18,913; Aug. 8.
Johnson, Walter R., Suffern, N. Y. Combination hall tree. Des. 90,443; Aug. 8.
Jolivet, Jacques. (See Jolivet, Pierre, and J.)
Jolivet, Pierre and J., Maison-Carree Alger, France. Security device for battery ignition circuits. 1,921,974; Aug. 8.
Jones, Elbert A., Oakland, Calif. Golf ball marker 1,921,571; Aug. 8.
Jones, George L., Garden City, assignor to Sperry Products, Inc., Brooklyn, N. Y. Flaw detector car. 1,922,019; Aug. 8.
Jones, Hilton I., Wilmette, Ill. Treating textiles and composition used in the method. 1,921,926; Aug. 8.
Jones, John T., Clifton, N. J., assignor to The Tabulating Machine Company, Endicott, N. Y. Tabulating machine. 1,921,412; Aug. 8.
Jones, Paul C. (See Semon, W. L., and Jones.)
Jones, Russell C., Bronxville, and E. Colston, New Rochelle, assignors to The Griscom-Russell Company, New York, N. Y. Fin tubing. 1,921,927; Aug. 8.
Jones, Russell C., Bronxville, and R. Colston, New Rochelle, assignors to The Griscom-Russell Company, New York, N. Y. Making finned tubing. 1,921,928; Aug. 8.
Jones, Russell C., Bronxville, and R. Colston, New Rochelle, assignors to The Griscom-Russell Company, New York, N. Y. Apparatus for making finned tubing. 1,921,975; Aug. 8.
Jonson, Gustave W., Beverly Hills, and A. Grebe, Los Angeles, assignors to Mitchell Camera Corporation, West Hollywood, Calif. Adjustable mat for optical instruments. 1,921,191; Aug. 8.
Jourdan, William, Chicago, Ill. Apparatus for cooking. 1,921,281; Aug. 8.
Joyce, Lyndon W., assignor to Joyce-Venning Manufacturing Co., Inc., Greensboro, N. C. Assembling suspenders and slides. 1,921,826; Aug. 8.
Joyce-Venning Manufacturing Co. (See Joyce, Lyndon W., assignor.)
Kahn, Maxwell M., Belleville, N. J. Detergent composition of matter. 1,921,676; Aug. 8.
Kalamazoo Vegetable Parchment Company. (See Francoise, Edward C., assignor.)
Kaltenbach, Charles E., deceased, Cranford, N. J., Herman Muhlenbrook, J. C. Kaltenbach and R. W. Aldrich, executors. Dyeing. 1,920,987; Aug. 8.
Kaltenbach, Juana C., et al., executor. (See Kaltenbach, Charles E.)
Kamper, Leslie H., assignor to King's Laundry Co., Chicago, Ill. Automatic control system for waste water. 1,921,232; Aug. 8.
Karken, S. & Bros. (See Murnane, W. F., and De Lamar, assignors.)
Karlson, Frithiof L., Liberty, N. Y. Mirror. 1,921,755; Aug. 8.
Karr, Charles, Company. (See Karr, Charles D., assignor.)
Karr, Charles D., Holland, Mich., assignor to Charles Karr Company. Spring assembling machine. 1,922,002; Aug. 8.
Kavalco Products, Inc. (See North, Clayton O., assignor.)
Kayko, Charles J., assignor, by mesne assignments, to The Sparks-Withington Company, Jackson, Mich. Vacuum tube. 1,921,619; Aug. 8.
Kayko, Charles J., assignor to The Sparks-Withington Company, Jackson, Mich. Glow tube apparatus. 1,921,620; Aug. 8.
Keaney, James B., assignor of one-half to G. J. Johnson, Marlboro, Mass. Antiskid device. 1,921,192; Aug. 8.
Keir, James M., Bayside, N. Y., assignor to Oxweld Acetylene Company. Arc welding rod. 1,921,528; Aug. 8.
Keller, Robert, Ennetbaden, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Paralleling system for alternating current generators. 1,921,677; Aug. 8.
Keller, Merlin O. (See Heath, S. B. and Keller.)
Kelly, Edward, assignor of one-half to L. H. Geddes, Rockford, Ill. Railway spike. 1,921,194; Aug. 8.
Kelly, Harry G., Omaha, Nebr. Rolling door mechanism. 1,921,193; Aug. 8.
Kelvinator Corporation. (See Lauer, C. J., and McPhail, assignors.)
Kempf, Louis W., Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum-silicon alloy. 1,921,195; Aug. 8.
Kennedy, Frank J., Brooklyn, assignor to National Electric Products Corporation, New York, N. Y. Electrical wiring appliance. 1,921,162; Aug. 8.
Kenney, Mahlon W., Elmhurst, and S. E. Vickers, Norwood Park, Ill., assignors to Grigsby-Grunow Company. Refrigerating apparatus. 1,921,163; Aug. 8.
Kern, Frederick E., St. Louis, Mo. Manufacturing activated carbon. 1,921,297; Aug. 8.
Kersey, Leon N., assignor to Bond Manufacturing Corporation, Wilmington, Del. Automatic feeding device for bar sizing machines. 1,921,527; Aug. 8.
Kershaw, George E., East Orange, N. J., assignor to The Superheater Company, New York, N. Y. Increasing power of turbine plants. 1,921,678; Aug. 8.
Kersten, Samuel, Chicago, Ill. Water faucet. 1,921,827; Aug. 8.
Kidde, Walter, & Company. (See Mapes, Daniel, assignor.)
Kienle, Roy H., Schenectady, N. Y., assignor to General Electric Company. Resinous composition. 1,921,756; Aug. 8.
Kienle, Roy H., Schenectady, and W. J. Scheiber, Troy, N. Y., assignors to General Electric Company. Laminated molded product. 1,921,757; Aug. 8.
Kilgore Mfg. Company, The. (See Peake, Edward S., assignor.)
Kindelmann, Albert, Floral Park, and E. Boecking, Brooklyn, assignors to International Projector Corporation, New York, N. Y. Lens holder construction and position indicator. 1,921,413; Aug. 8.
King, Frank A., Englewood, Colo. Mechanical movement. 1,920,988; Aug. 8.
King, Winter R. (See Bush, P. L., and King.)
King's Laundry Company. (See Kamper, Leslie H., assignor.)
Kinnard, Luther J., Pasadena, assignor to Consolidated Steel Corporation, Ltd., Los Angeles, Calif. Arc welding machine. 1,921,572; Aug. 8.
Kinnard, Luther J., Pasadena, Calif., assignor to Westinghouse Electric Elevator Company. Elevator control system. 1,921,679; Aug. 8.
Kipe, Lorenzo D., assignor to The Radium Emanation Corporation, New York, N. Y. Sterilization of radon seeds. 1,921,084; Aug. 8.
Kitto, William H., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 1,921,033; Aug. 8.
Klönne, Aug., Firm. (See Fleischmann, Karl, assignor.)
Kmentt, Waldemar D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for classifying spherical articles. 1,921,621; Aug. 8.
Knape & Vogt Manufacturing Company. (See Knape, Joseph J., assignor.)
Knape, Joseph J., assignor to Knape & Vogt Manufacturing Company, Grand Rapids, Mich. Extension mounting for garment carriers. 1,921,828; Aug. 8.
Knapp, Leland G., Chicago, and J. N. Roth, Arlington Heights, assignors to Montgomery Ward & Co., Incorporated, Chicago, Ill. Refrigerating machine. 1,921,829; Aug. 8.
Koch, Wilhelm. (See Laska, L., Zitscher and Koch.)
Koehring Company. (See Osman, R. T., and Lichtenberg, assignors.)
Kohn, Adolf. (See Wahl, O., Müller, Kohn, and Teupel.)
Kohnstamm, H., & Co. (See Phair, Robert A., assignor.)
Kolisch, Paul. (See McCormick, Daniel J., assignor.)
Kopnicky, Joseph A., Stamford, Conn. Bottle cleaning device. 1,921,680; Aug. 8.
Korittke, Karl, Berlin, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Electrical vacuum cleaner. 1,921,085; Aug. 8.
Korsmo, Torbjorn C., assignor to Madison-Kipp Corporation, Madison, Wis. Die-casting method. 1,921,681; Aug. 8.
Korth, Paul V., Detroit, Mich. Hinge for automobile seats. 1,921,622; Aug. 8.

Koss, Louis F., jr., assignor to Capital Machine Company, Indianapolis, Ind. Variable speed drive. 1,921,758; Aug. 8.

Kottmann, August, assignor to Rheinische Metallwaaren und Maschinenfabrik Sommerda Aktiengesellschaft, Sommerda, Germany. Calculating machine with two counting mechanisms. 1,921,529; Aug. 8.

Kraft, Edward L., assignor to Martin-Parry Corporation, York, Pa. Automobile ventilator. 1,921,976; Aug. 8.

Krambeer, Karl H., Berlin-Wilmersdorf, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Protective ground connection. 1,921,830; Aug. 8.

Kränzlein, Georg, H. Greune, M. Corell, and H. Vollmann, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Mixtures of new isomeric dye stuffs and preparing them. 1,921,360; Aug. 8.

Kriechbaum, John P., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Burner control apparatus. 1,921,196; Aug. 8.

Kriegbaum, George M., F. F. Brooks, and C. C. Haas, Richmond, Ind., assignors to International Harvester Company. Fertilizer attachment for planters. 1,921,885; Aug. 8.

Kriegbaum, George M., and C. C. Haas, Richmond, Ind., assignors to International Harvester Company. Fertilizer discharging unit. 1,921,886; Aug. 8.

Kronquest, Alfred L., and M. M. Sedwick, Syracuse, assignors to Continental Can Company, Inc., New York, N. Y. Cover supplying mechanism for multiple can closing machines. 1,921,977; Aug. 8.

Kropp, Walter. (See Berendes, R., and Kropp.)

Kruck, Ralph E., Springfield, and P. E. Hochstetter, East Springfield, Mass., assignors to Westinghouse Electric and Manufacturing Company. Portable humidifier. Des. 90,444; Aug. 8.

Krzikalla, Hans. (See Schneevoight, A., and Krzikalla.)

Kuchar, Joseph, assignor to Athey Truss Wheel Co., Chicago, Ill. Cable reel transporting vehicle. 1,921,233; Aug. 8.

Kuhn, John J., Elizabeth, and R. V. Terry, Montclair, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Film editing machine. 1,921,469; Aug. 8.

La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening inserting machine. 1,920,990; Aug. 8.

Lackey, Robert M., Cohoes, N. Y. Locked box. 1,921,759; Aug. 8.

Lagerblade, Herbert C., assignor to The Horton Manufacturing Company, Bristol, Conn. Celluloid covered metallic tube and making same. 1,921,929; Aug. 8.

Lagerblade, Herbert C., assignor to Horton Manufacturing Company, Bristol, Conn. Golf club shaft. 1,921,930; Aug. 8.

Lahm, Adam H., New Butler, Wis. Artificial lure. 1,920,991; Aug. 8.

La Mar, Frank C., assignor to Great Western Fuse Company, New York, N. Y. Plug fuse. 1,921,392; Aug. 8.

La Marche, Norman O., Detroit, Mich. Syringe container and ejector. 1,921,034; Aug. 8.

Lamson Company, The. (See Gibbs, William J., assignor.)

Lamson Company, The. (See Jennings, Chester S., assignor.)

Landis & Gyr, A.-G. (See Vannini, Philipp, assignor.)

Landis Machine Company. (See Wolf, Eugene G. assignor.)

Landry, James M., Pawtucket, R. I. Headlight shield. 1,920,992; Aug. 8.

Lane, George, New Haven, Conn. Method of visually recording sound beats. 1,921,470; Aug. 8.

Lane, Maurice W., Chicago, and S. A. Price, La Grange, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Adapter for apparatus handling receptacles. 1,921,414; Aug. 8.

Langton, Charles R., London, England. Receptacle for granular or pulverulent condiments for table use. 1,921,471; Aug. 8.

Larsen, Einer W., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Door operating mechanism. 1,921,415; Aug. 8.

Larson, Carl B., Maplewood, N. J., and W. C. Hammond, assignors to William C. Hammond, Kalamazoo, Mich. Expansible sprocket or pulley. 1,921,197; Aug. 8.

Laska, Leopold, and A. Zitscher, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Water insoluble azo dyestuff and fiber dyed therewith. 1,921,361; Aug. 8.

Laska, Leopold, A. Zitscher, and W. Koch, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Water insoluble azodyestuff. 1,921,362; Aug. 8.

Lasker, William W., Brooklyn, assignor to Remington Rand Incorporated, New York, N. Y. Tabulating machine. 1,920,993; Aug. 8.

Lauer, Carleton J., and H. R. McPhail, assignors to Kelvinator Corporation, Detroit, Mich. Ebullition initiator. 1,921,573; Aug. 8.

La Vigne, George J. (See Greist, H. M., and La Vigne.)

Lawler, Frank P., San Francisco, Calif. Torque distributor. 1,920,994; Aug. 8.

Lawson, Robert H. (See Smith, W. L., and Lawson.)

Layhon, Arthur J., assignor of one-half to Raymond D. Hart, Lowell, Mass., Portable crane. 1,920,989; Aug. 8.

Leach, Robert H., Fairfield, Conn., assignor to Handy & Harman, New York, N. Y. Alloy. 1,921,416; Aug. 8.

Leach, Robert H., Fairfield, Conn., assignor to Handy & Harman, New York, N. Y. Alloy. 1,921,417; Aug. 8.

Leach, Robert H., Fairfield, Conn., assignor to Handy & Harman, New York, N. Y. Alloy. 1,921,418; Aug. 8.

Leach, Robert H., Fairfield, Conn., assignor to Handy & Harman, New York, N. Y. Alloy. 1,921,760; Aug. 8.

Leary, Eugene A., Cincinnati, Ohio. Connecting ring. 1,921,978; Aug. 8.

Le Blond, R. K., Machine Tool Company, The. (See Groene, William F., assignor.)

Lefranc, Georges, Paris, France. Treating fibers. 1,921,363; Aug. 8.

Legge, Algeo J., Los Angeles, Calif. Holder for ice cream cone. 1,920,995; Aug. 8.

Leguillon, Charles W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Splicing rubber articles. 1,921,623; Aug. 8.

Leib, August, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Graduated circle for radio direction finders. 1,921,234; Aug. 8.

Leins, Oscar J., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Gas cock. 1,921,761; Aug. 8.

Leins, Oscar J., assignor to The Milwaukee Gas Specialty Co., Milwaukee, Wis. Gas range. 1,921,762; Aug. 8.

Lerch, Oliver M., Rimersburg, Pa. Flexible nonbreakable pipe stem joint. 1,921,530; Aug. 8.

Leutwiler, Richard W. (See Eichholz, W., and Leutwiler.)

Le Vally, John R. (See Broido, B., and Le Vally.)

Leyasseur, Pierre, Paris, France. Screw propeller. 1,921,931; Aug. 8.

Levenberg, Joseph L., and H. M. Seeberg, Los Angeles, Calif. Smoking stand. 1,921,933; Aug. 8.

Levin, Isaac H., Pittsburgh, Pa. Apparatus for and method of producing compressed gas. 1,921,531; Aug. 8.

Lewallen, Worth M., High Point, N. C. Chair. 1,921,982; Aug. 8.

Lewis, George K., assignor to Met-L-Wood Corporation, Chicago, Ill. Composite laminated panel. 1,921,164; Aug. 8.

Lewis, Goodrich Q., Wheaton, assignor to W. H. Miner, Inc., Chicago, Ill. Testing apparatus. 1,921,624; Aug. 8.

Lewis, James O., assignor to D L P Valve Company, a Trust, Tulsa, Okla. Valve. 1,921,298; Aug. 8.

Lewis, Lester L., assignor of two-thirds to Blair Strip Steel Company, New Castle, Pa. Annealing. 1,921,934; Aug. 8.

Lewis, M. J., Products Company, The. (See Lewis, Morgan J., assignor.)

Lewis, Morgan J., Massillon, Ohio, assignor to The M. J. Lewis Products Company, Philadelphia, Pa. Electric switch. 1,921,419; Aug. 8.

Libbey-Owens-Ford Glass Company. (See Burrell, Charles D., assignor.)

Libbey-Owens-Ford Glass Company. (See Fraser, F., and Watkins, assignors.)

Libby, Albion D. T. (See Moore, E., and Engel, assignors.)

Lichtenberg, Erich H. (See Osman, R. T., and Lichtenberg.)

Lindsay, Clarence A., Washington, D. C. Scale. 1,921,979; Aug. 8.

Lindsey, Ernest E., San Francisco, Calif. Reciprocating movement. 1,921,235; Aug. 8.

Lindstrom, Carl. (See Mattern, H. T., and Lindstrom.)

Link, Louis, New York, N. Y. Tape dispensing machine. 1,921,625; Aug. 8.

Link, Louis, New York, N. Y. Strip feeding or dispensing machine. 1,921,626; Aug. 8.

Livingstone, Alexander Y. (See Goldstein, R. F., and Livingstone.)

Loeber, John P., Baltimore, Md. Can. 1,921,682; Aug. 8.

Loening, Grover, Mill Neck, assignor to Grover Loening Aircraft Company, Inc., Garden City, Long Island, N. Y. Aircraft. 1,921,992; Aug. 8.

Loening, Grover, Aircraft Company, Inc. (See Loening, Grover, assignor.)

Lofgren, Peter. (See Howard, C. P., and Lofgren.)

Lommel, Wilhelm, and H. Münsel, Wiesdo-f-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Media for protecting furs, hairs, feathers, and animal textile products against the attack of animal and plant pests. 1,921,864; Aug. 8.

Long, Joseph H., Cleveland, Ohio. Heater. 1,921,532; Aug. 8.

Lorenz, C., Aktiengesellschaft. (See Schumacher, Hans, assignor.)

Lorenz, Edward H., West Hartford, assignor to Hartford Empire Company, Hartford, Conn. Receiver for glass forming machines. 1,921,393; Aug. 8.

Lubin, Louis, Brooklyn, N. Y. Belt for garments and the like articles. 1,921,271; Aug. 8.

Lucchesi, Napoleon, San Francisco, Calif. Rope brake and lock. 1,921,627; Aug. 8.

Luedke, Julius H., Hartley, Iowa. Tank heater. 1,921,683; Aug. 8.

Lum, Walter O., Schenectady, N. Y., assignor to General Electric Company. Low water detector for boilers. 1,921,684; Aug. 8.

Luther, Martin. (See Beller, H., and Luther.)

Lyon, Hancel M. (See Rice, W. H., and Lyon.)

MacClatchie, John W. (See Hamer, Leland S., assignor.)

MacDonald, Duncan M., London, England, assignor to Radio Patents Corporation, New York, N. Y. Electric condenser. 1,921,086; Aug. 8.

MacDonald, William A., Little Neck, N. Y., assignor to Hazeltine Corporation. Wave signaling system. 1,921,087; Aug. 8.

MacDonald, William A., Little Neck, N. Y., assignor to Hazeltine Corporation. Wave signaling system. 1,921,088; Aug. 8.

MacDougall, Robert, Granite City, assignor to Beemack Furnace Company, Cicero, Ill. Draft control apparatus for furnaces. 1,921,763; Aug. 8.

MacGregor, Alexander S., Scotia, N. Y., assignor to General Electric Company. Inductor. 1,921,687; Aug. 8.

Machlet, Adolph W., Elizabeth, N. J. Finish for ferrous articles. 1,921,128; Aug. 8.

MacLean, Allen D., and C. B. Johnson, assignors to Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Pressure regulator. 1,921,865; Aug. 8.

MacLean, Allen D., and C. B. Johnson, assignors to Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Liquid seal device for regulators. 1,921,866; Aug. 8.

Macourek, Jerry F., Cicero, assignor to O. D. Jennings & Company, Chicago, Ill. Retractable supporting gear. 1,921,420; Aug. 8.

Macready, George A., Los Angeles, Calif. Production tester. 1,921,472; Aug. 8.

Madison-Kipp Corporation. (See Hoffman, John R., assignor.)

Madison-Kipp Corporation. (See Korsmo, Torbjorn C., assignor.)

Mahin, Edward G., South Bend, Ind. Carburizing iron or steel. 1,921,367; Aug. 8.

Mahler, George T. (See Handwerk, E. C., and Mahler.)

Maillard, Frederick G., Paris, France. Conversion of textile vegetable fibers into threads having the texture of wool. 1,921,935; Aug. 8.

Maine Steel Products Company. (See Soule, G. C., and Woodbury, assignors.)

Mantelet et Boucher (Societe en nom Collectif). (See Mantelet, Jean, assignor.)

Mantelet, Jean, assignor to Mantelet et Boucher (Societe en nom Collectif), Bagnolet, France. Masher. 1,921,936; Aug. 8.

Mapes, Daniel, Mamaroneck, assignor to Walter Kidde & Company, Inc., New York, N. Y. Cutter valve for release of fluids. 1,921,831; Aug. 8.

Marathon Company. (See Whittaker, Frederick A., assignor.)

Marcon, René. (See Simon, L., and Marcon.)

Marmorstein, Herman I., Bronx, N. Y. Watch or clock movement. 1,921,832; Aug. 8.

Marsh, Austin G., Springfield, Ill. Twisting tool. 1,921,198; Aug. 8.

Marshall, Albert E., Baltimore, assignor, by mesne assignments, to R. D. Scheenwetter, Hagerstown, Md. Oil burning apparatus. 1,921,937; Aug. 8.

Marsilius, Newman M., assignor to The Producto Machine Company, Bridgeport, Conn. Removable guide pin. 1,921,421; Aug. 8.

Martin-Parry Corporation. (See Kraft, Edward L., assignor.)

Mascetti, Frederick E., and A. D. Bruno, Torrington, Conn. Concrete mixer. 1,921,685; Aug. 8.

Maschinenfabrik Augsburg-Nurnberg A.-G. (See Hanffstengel, Georg V., assignor.)

Maskery, Harry, Philadelphia, Pa. Soap slicing machine. 1,921,199; Aug. 8.

Mason, Warren P., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave filter. 1,921,035; Aug. 8.

Massey, Peter J., River Forest, Ill. Coating paper. 1,921,368; Aug. 8.

Massey, Peter J., River Forest, Ill. Coating paper. 1,921,369; Aug. 8.

Mather, George L., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Manufacture of pneumatic tire casings. 1,921,473; Aug. 8.

Mather, George L., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Manufacture of pneumatic tire casings. 1,921,474; Aug. 8.

Mathieson Alkali Works, Inc., The. (See Evans, George S., assignor.)

Mattern, Herman T., and C. Lindstrom, assignors to Hempy-Cooper Manufacturing Company, Kansas City, Mo. Expanding mandrel. 1,921,316; Aug. 8.

Mattern, Joel H., Altoona, Pa. Weather strip for car doors. 1,921,422; Aug. 8.

Matteson, George F., Rockyhill, Conn. Ball grinding machine. 1,921,686; Aug. 8.

Matthews, Robertson, Detroit, Mich. Egg timer. 1,921,036; Aug. 8.

Matthey, Johnson, & Company Limited. (See Powell, A. E., and Davies, assignors.)

Matthiessen & Hegeler Zinc Co. (See Gerlach, Oscar, assignor.)

Maxwell, Ralph H., and F. J. Weidling, Wilmette, Ill. Portable electric hammer. 1,921,628; Aug. 8.

May Hosiery Mills. (See Smith, W. L., and Lawson, assignors.)

May, Russell P., Haddonfield, N. J., assignor to Radio Corporation of America. Talking motion picture projector. 1,921,574; Aug. 8.

Maynard, Charles E., Northampton, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Fluid pressure connection. 1,921,533; Aug. 8.

McArdle, Thomas, New York, N. Y. Hair curling and waving device. 1,921,394; Aug. 8.

McCauley, Thomas, jr., Oak Park, Ill. Method and apparatus for constructing a concrete caisson. 1,921,286; Aug. 8.

McCormick, Daniel J., Brooklyn, assignor of twenty-five per cent to P. Kolisch, New York, N. Y. Highway traffic control system. 1,921,423; Aug. 8.

McCrosky, Bynum B., Oakland, Calif. Propeller. 1,921,534; Aug. 8.

McDonald, George T. (See Taylor, O. G., and McDonald.)

McDonough, John L., and F. B. Williams, Fort Worth, Tex. Tile making machine. 1,921,287; Aug. 8.

McGavack, John, Jackson Heights, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Concentration and purification of latex. 1,921,575; Aug. 8.

McGirr, Theodore G., Brooklyn, N. Y. Feeding device. 1,921,764; Aug. 8.

McGorum, William B., Norfolk, Va. Decelerometer. 1,921,833; Aug. 8.

McKee, Neal T., Bronxville, assignor to The Superheater Company, New York, N. Y. Header structure and fastening arrangement therefor. 1,921,629; Aug. 8.

McLaughlin, Daniel W., Des Moines, Iowa. Attachment for road treating machines. 1,921,888; Aug. 8.

McLean, Gordon J., and R. Q. Edmonson, New Orleans, La. Device for feeding infants. 1,921,535; Aug. 8.

McMaster, Archie J., assignor to G. M. Laboratories, Inc., Chicago, Ill. Photo-electric tube. 1,921,834; Aug. 8.

McNeil, Charles I., Cedar Grove Township, Essex County, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Automatic starting mechanism for internal combustion engines. 1,920,996; Aug. 8.

McNeil, Hugh J., Reading, Mass. Store front. Des. 90,445; Aug. 8.

McPhail, Harold R. (See Lauer, C. J., and McPhail.)

McQuade, James D., Moundsville, W. Va. Apparatus for low temperature carbonization. 1,921,998; Aug. 8.

Mead, Francis L. (See Pastenack, R., Mead and Davenport.)

Mechau, Robert, assignor to Firm Carl Zeiss, Jena, Germany. Method and instrument for determining the position of targets emitting short flashes of light. 1,921,630; Aug. 8.

Meissner, Karl L., assignor to Durener Metallwerke Aktiengesellschaft, Duren, Germany. Aluminum alloy. 1,921,089; Aug. 8.

Melcher, Lee W., Winnetka, Ill. Air conditioning apparatus. 1,921,257; Aug. 8.

Mertens, Karl. (See Raym, W., Mertens and Salzer.)

Mesta Machine Company. (See Fisk, Gustaf L., assignor.)

Metal Sections Limited. (See Henderson, Leonard, assignor.)

Met-L-Wood Corporation. (See Lewis, George K., assignor.)

Metropolitan Device Corporation. (See Reed, George B., assignor.)

Metzner, Albert W. (See Sherman, J. Q., and Metzner.)

Meuer, George J., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Rotary snap switch. 1,921,765; Aug. 8.

Meuer, George J., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 1,921,766; Aug. 8.

Meurk, Bengt. E., Upper Montclair, N. J. Method and apparatus for separating liquids. 1,921,889; Aug. 8.

Meyer, William H., St. Louis, Mo., assignor to General Steel Castings Corporation, Granite City, Ill. Railway motor truck structure. 1,920,997; Aug. 8.

Mid-West Chemical Company. (See Hessle, Eric T., assignor.)

Migrdichian, Vartkes, Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Cyanide and method of controlling the porosity thereof. 1,921,299; Aug. 8.

Milam, Oran A., assignor of one-third to D. Coakon, and one-third to R. E. Milam, Brownwood, Tex. Machine for hulling nuts and the like. 1,921,288; Aug. 8.

Milam, Robert E., et al. (See Milam, Oran A., assignor.)

Miller, Annie G., executrix. (See Miller, Lee H.)

Miller, Charles, New York, N. Y. Shoe. Des. 90,446; Aug. 8.

Miller, Charles, New York, N. Y. Shoe. Des. 90,447; Aug. 8.

Miller, Claus E., Los Angeles, Calif. Fruit picker's carriage. 1,921,631; Aug. 8.

Miller Devices, Inc. (See Miller, Philip M., assignor.)

Miller, Henry, assignor to A. O. Smith Corporation, Milwaukee, Wis. Steering-post bracket for automobile frames. 1,921,239; Aug. 8.

Miller, Lee H., deceased, Cleveland Heights, by A. G. Miller, executrix, assignor to The Armorsteel Roadguard Company, Cleveland, Ohio. Highway guard. 1,921,129; Aug. 8.

Miller, Philip M., Brooklyn, assignor to Miller Devices, Inc., New York, N. Y. Wheel construction. 1,921,475; Aug. 8.

Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Distillation of tar. 1,921,300; Aug. 8.

Miller, William C., assignor to Diebold Safe & Lock Company, Canton, Ohio. Cabinet-safe. 1,921,690; Aug. 8.

Mills, Lindley E., assignor to The Dow Chemical Company, Midland, Mich. Making acid halides. 1,921,767; Aug. 8.

Milwaukee Gas Specialty Company. (See Leins, Oscar J., assignor.)

Miner, W. H., Inc. (See Lewis, Goodrich Q., assignor.)

Miner, W. H., Inc. (See O'Connor, John F., assignor.)

Minger, Forest R. (See Heath, S. B., and Minger.)

Minneapolis-Honeywell Regulator Company. (See Kreichbaum, John P., assignor.)

Mission Dry Corporation. (See Crosby, Harry E., assignor.)

Mitchell, Allister S., assignor to National Automotive Fibres, Inc., Detroit, Mich. Cushion and its manufacture. 1,921,691; Aug. 8.

Mitchell-Camera Corporation. (See Jonson, G. W., and Grebe, assignors.)

Mladinich, Thomas C., Garden City, N. Y. Feed clutch. 1,921,994; Aug. 8.

Molins, Walter E., and Cyril Best, London, England. Cigarette making machinery. 1,921,317; Aug. 8.

Möller, Karl, Berlin-Siemensstadt, Blockwerk, assignor, by mesne assignments, to Vereinigte Eisenbahn-Signalwerke, G. m. b. H., Berlin-Siemensstadt, Germany. Shunting system. 1,921,395; Aug. 8.

Montgomery Ward & Co. (See Knapp, L. G., and Roth, assignors.)

Moore, David P., Avon Park, Fla. Combined sunshade and headrest. 1,921,984; Aug. 8.

Moore, Edward, Newark, N. J., and F. Engel, Brooklyn, N. Y., assignors to A. D. T. Libby, East Orange, N. J. Internal combustion engine. 1,921,985; Aug. 8.

Moore, George E. (See Tompkins, John J., assignor.)

Moore, Lee C., & Company. (See Henry, Charles L., assignor.)

Morgan, David T., Elizabeth, N. J., assignor to The Steel-Clad Products Company, Inc., New York, N. Y. Joint for barrels and the like. 1,921,768; Aug. 8.

Morgan, Hopkin, assignor to Penn Anthracite Mining Company, Scranton, Pa. Device for illustrating preparation of coal. 1,921,692; Aug. 8.

Morgan, Kenneth F., Los Angeles, Calif., assignor to Electrical Research Products, Inc., New York, N. Y. Sound recording. 1,921,037; Aug. 8.

Morgan, Mathew B., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Driving axle. 1,921,769; Aug. 8.

Morgan & Wright. (See Otto, Albert, assignor.)

Morgan & Wright. (See Thompson, Walter S., assignor.)

Morrill, Alfred R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Inseam shoe sewing machine. 1,920,998; Aug. 8.

Morrill, Alfred R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Edge trimming machine. 1,921,165; Aug. 8.

Morrison, William R., Billings, Mont. Refraction instrument. 1,921,318; Aug. 8.

Morse, Cyrus F. (See Williams, M. F., and Morse.)

Moto Meter Gauge & Equipment Corporation. (See Cheney, Moses E., assignor.)

Mott, Chester, Denver, Colo., and G. G. Spencer, Los Angeles, Calif., assignors, by mesne assignments, to Union Carbide and Carbon Research Laboratories, Inc. Pressure regulator. 1,921,632; Aug. 8.

Mueller Brass Co. (See Robinson, Ward M., assignor.)

Mueller, Edward C., assignor to Sterling Wheelbarrow Company, Milwaukee, Wis. Continuous object forming press. 1,921,200; Aug. 8.

Muend, Charles J., Philadelphia, Pa. Beverage faucet. Des. 90,448; Aug. 8.

Muend, Charles J., Philadelphia, Pa. Beverage faucet. Des. 90,449; Aug. 8.

Muffly, Glenn, Richmond, Mich., assignor to Copeland Products, Inc. Refrigerating apparatus. 1,921,576; Aug. 8.

Muhlenbrock, Herman, executor, et al. (See Kaltenbach, Charles E.)

Müller, Oskar, assignor to Gebruder Brehmer, Leipsig-Plagwitz, Germany. Mechanism for transporting section-spacing blocks in book-binding machines. 1,921,201; Aug. 8.

Muller, Paul, Neuf-Brisach, Haut-Rhin, France. Bell swinging device. 1,921,090; Aug. 8.

Müller, Werner. (See Wahl, O., Müller, Kohn, and Teupel.)

Mungen, Theodore, assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Interchangeable sign. 1,921,202; Aug. 8.

Münzel, Heinrich. (See Lommel, W., and Münzel.)

Murch, John H., East Orange, N. J., assignor to American Can Company, New York, N. Y. Shearing machine. 1,920,999; Aug. 8.

Murnane, William F., Chicago, and R. D. De Lamar, Berwyn, assignors to S. Karpen & Bros., Chicago, Ill. Machine for assembling springs. 1,921,319; Aug. 8.

Murphy, Edward A., Erdington, Birmingham, E. W. B. Owen, Walmley, and D. F. Twiss, Wylde Green, assignors to Dunlop Rubber Company Limited, London, England. Manufacture of rubber articles. 1,921,130; Aug. 8.

Murphy, P. H., Company. (See Bonsall, Charles D., assignor.)

Murphy, Richard C. (See De Giers, Clarence A., assignor.)

Murrill, Paul I., East Norwalk, Conn., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Tellurium dithiocarbamates and making the same. 1,921,091; Aug. 8.

Nabenhauer, Fred P., assignor to Smith, Kline & French Laboratories, Philadelphia, Pa. Medicinal remedy. 1,921,424; Aug. 8.

Nasmith, John W., Manchester, England. Combing machine. 1,921,203; Aug. 8.

National Automotive Fibres, Inc. (See Mitchell, Allister S., assignor.)

National Electric Products Corporation. (See Kennedy, Frank J., assignor.)

National Electric Products Corporation. (See Sharp, L. Alan, assignor.)

National Fireproofing Corporation. (See Shipley, Roy A., assignor.)

National Machinery Company, The. (See Clouse, William L., assignor.)

National Malleable and Steel Castings Company. (See Spence, Hubert L., assignor.)

National Smelting Company, The. (See Bonsack, Walter, assignor.)

Naugatuck Chemical Company, The. (See McGavack, John, assignor.)

Naumann, Max, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of molybdenum and tungsten carbonyl. 1,921,536; Aug. 8.

Naumburg, Robert E., Winchester, Mass. Apparatus for translating impressions. 1,921,000; Aug. 8.

Neale, Albert E. T. (See Twiss, D. F., Neale, and Carpenter.)

Nebel, Charles N., Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Polar relay circuit. 1,921,425; Aug. 8.

Nebrich, Carl. (See Heinrich, R., and Zipprian, assignors.)

Nelson, Adolf H., San Francisco, Calif. Can feeding system. 1,921,577; Aug. 8.

Nelson, Carl C., and E. A. Crosby, assignors to Electric Machinery Manufacturing Company, Minneapolis, Minn. Motor starting system. 1,921,770; Aug. 8.

Nelson, Emil A., Detroit, Mich. Vehicle wheel. 1,921,131; Aug. 8.

Nelson, Herman, San Francisco, Calif. Fruit halving and quartering machine. 1,921,633; Aug. 8.

Neuman, Jacob J. (See Andrews, N. R., and Neuman.)

Neville, Arthur C. E., Isfield, England. Control of acceleration and braking of vehicles driven by internal combustion engines. 1,921,693; Aug. 8.

Newell, Floyd B. (See Foote, E. B., and Newell.)

New Jersey Zinc Company, The. (See Handwerk, E. C., and Mahler, assignors.)

Newport News Shipbuilding and Dry Dock Company. (See Dickinson, Joseph E., assignor.)

Newton, Robert S., Watertown, N. Y., assignor to The New York Air Brake Company. Multiple-way valve. 1,921,092; Aug. 8.

New York Air Brake Company, The. (See Newton, Robert S., assignor.)

New York Rubber Corporation. (See Anderson, Axel V., assignor.)

Nickle, Clifford A., Schenectady, N. Y., assignor to General Electric Company. Voltage compensated starting relay for split phase motors. 1,921,204; Aug. 8.

Niogret, Henri F., Lyon, France, assignor to Du Pont Rayon Company, New York, N. Y. Treating artificial silk. 1,921,426; Aug. 8.

Nitrogen Engineering Corporation. (See Richardson, Ralph S., assignor.)

Noble & Wood Machine Company, The. (See Coghill, James T., assignor.)

Nordmann, Charles, Paris, France. Color photography. 1,921,258; Aug. 8.

Normand, Emile H. (See Normand, Ernest A., assignor.)

Normand, Ernest A., assignor to E. H. Normand, San Francisco, Calif. Chuck. 1,921,694; Aug. 8.

Normand, Ernest A., assignor to E. H. Normand, San Francisco, Calif. Chuck. 1,921,695; Aug. 8.

North American Car Corporation. (See Wood, Edward C., assignor.)

North, Clayton O., assignor to Kavalco Products, Inc., Nitro, W. Va. Making phosphorus oxychloride. 1,921,370; Aug. 8.

Norton Company. (See Fraser, Warren F., assignor.)

Nowak, Walter H. (See Broman, C. E., and Nowak.)

Nowosielski, Edward B., Bloomfield, assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J. Magneto. 1,921,427; Aug. 8.

Nuhring, Charles, Cincinnati, Ohio. Hose reel. 1,921,938; Aug. 8.

Nyborg, Tage G., assignor of one-half to M. F. Higgins, Worcester, England. Belt conveyer. 1,921,205; Aug. 8.

Oakley, Laurence M., Trenton, N. J. Shoe sole. Des. 90,450; Aug. 8.

O'Conner, Arthur F., assignor to Union Railway Equipment Company, Chicago, Ill. Draft gear support. 1,921,696; Aug. 8.

O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Refrigerator car door. 1,921,578; Aug. 8.

Oertli, Josua, Berlin-Siemensstadt, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany. Apparatus for passing articles suspended from supporting devices through baths. 1,921,206; Aug. 8.

Ogden, J. Edward, Company. (See Armle, Roy A., assignor.)

Ogden, J. Edward, Company. (See Tomkinson, Charles C., assignor.)

O'Hara, Charles G., Norristown, Pa. Conveyer device. 1,921,771; Aug. 8.

Ohlson, Olof, Newton, Mass. Pressure gauge. 1,921,001; Aug. 8.

Oil Well Supply Company. (See Greve, Edgar E., assignor.)

Olpin, Henry C. (See Ellis, G. H., and Olpin.)

Olson, Carl O., New York, N. Y. Shoe stretcher. 1,921,093; Aug. 8.

Olson, Charles A., Geneva, assignor to Crane Co., Chicago, Ill. Joint for heater coils. 1,921,259; Aug. 8.

Osman, Ralph T., and E. H. Lichtenberg, assignors to Koehring Company, Milwaukee, Wis. Cushion cleat wheel. 1,921,537; Aug. 8.

Oster Manufacturing Company, The. (See Hyde, Ralph E., assignor.)

Otto, Albert, Grosse Pointe Park, assignor to Morgan & Wright, Detroit, Mich. Tire forming device. 1,921,579; Aug. 8.

Owen, Eric W. B. (See Murphy, E. A., Owen and Twiss.)

Owens, Freemen H., New York, N. Y. Optical printer. 1,921,835; Aug. 8.

Owens, Mack H., Lakewood, and E. A. Burr, Shaker Heights, assignors to The Cleveland Quarries Company, Cleveland, Ohio. Abrasive feeding mechanism for stone cutting machines. 1,921,697; Aug. 8.

Oxwell Acetylene Company. (See Kelr, James M., assignor.)

Osabal, Rudolph M., Chicago, Ill. Comb cleaner. 1,921,002; Aug. 8.

P O B Manufacturing Company, The. (See Glascock, Harry, assignor.)

Packard Motor Car Company. (See Tibbetts, Milton, assignor.)

Page, Robert M., Washington, D. C. Relaxation oscillator and amplifier system. 1,921,476; Aug. 8.

Palmer, Stanley D., Joplin, Mo. Grease rack. 1,921,320; Aug. 8.

Parker, Alexander, and G. Parsons Auckland, New Zealand. Machine for fastening together folded sheets of paper with adhesive material. 1,921,939; Aug. 8.

Parker Wire Goods Company. (See Priest, Dwight E., assignor.)

Parsons, Geoffrey. (See Parker, A., and Parsons.)

Parva Products Company. (See White, Birdora H., assignor.)

Pasternack, Richard, Brooklyn, N. Y., F. L. Mead, Jersey City, N. J., and J. L. Davenport, assignors to Charles Pfizer & Company, Brooklyn, N. Y. Preparing hydrated citric acid. 1,921,634; Aug. 8.

Paterson, John C., and G. R. Baker, Willesden, London, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich. Machine for stacking and arranging biscuits and the like. 1,921,580; Aug. 8.

Patterson, John W., assignor to The Seamless Rubber Company, Incorporated, New Haven, Conn. Bath spray or like connecter. 1,921,094; Aug. 8.

Paul, Talbert W., assignor to Deere & Company, Moline, Ill. Hitch mechanism. 1,921,581; Aug. 8.

Paull, Wallace H., Edgbaston, Birmingham, assignor to Dunlop Rubber Company Limited, London, England. Pneumatic tire. 1,921,772; Aug. 8.

Pawlikowski, Rudolf, Goerlitz, Germany. Powdered fuel engine and operating the same. 1,921,132; Aug. 8.

Payne, Walter F., assignor to J. W. Barley, Rolla, Mo. Platiron stand. 1,921,038; Aug. 8.

Peabody Engineering Corporation. (See Peabody, Ernest H., assignor.)

Peabody, Ernest H., assignor to Peabody Engineering Corporation, New York, N. Y. Pulveriser. 1,921,166; Aug. 8.

Peake, Edward S., assignor to The Kilgore Mfg. Company, Westerville, Ohio. Toy pistol. 1,921,133; Aug. 8.

Pearce, Edwin S., assignor to Railway Service & Supply Corporation, Indianapolis, Ind. Apparatus for renovating journal box packing. 1,921,095; Aug. 8.

Pegram, George H., South Orange, N. J. Aircraft structure. 1,921,428; Aug. 8.

Pence, Millard D. (See Taylor, E. A., Pence, and Dunham.)

Penn Anthracite Mining Company. (See Morgan, Hopkin, assignor.)

Penney, J. W., & Sons Co. (See Penney, Samuel R., jr., assignor.)

Penney, Samuel R., jr., assignor to J. W. Penney & Sons Co., Mechanic Falls, Maine. Drier and polisher for wood turnings. 1,921,521; Aug. 8.

Perfect Circle Company, The. (See Teetor, Macy O., assignor.)

Perkins, Eugene J. C., Miami, Fla. Air heater and circulator for hair drying systems. 1,921,940; Aug. 8.

Perry, Frank B. (See Henrickson, Arthur G., assignor.)

Perry, John, Pearl River, assignor to Dexter Folder Company, New York, N. Y. Sheet feeding apparatus. 1,921,167; Aug. 8.

Peter, Edward C., Algonquin, and J. A. Castricone, Elgin; said Peter assignor to The American Ironing Machine Company, Algonquin, Ill. Ironing machine. 1,921,301; Aug. 8.

Peterson, Johann G., West Hartford, Conn. Electric attachment plug. 1,921,096; Aug. 8.

Peterson, Oscar D., Brooklyn, N. Y. Automatic safety razor. 1,921,774; Aug. 8.

Petschow, Kurt J., Passaic, assignor to Royce Chemical Company, Carlton Hill, N. J. Production of zinc sulphate. 1,921,773; Aug. 8.

Pfizer, Charles, & Company. (See Pasternack, R., Mead, and Davenport, assignors.)

Phair, Robert A., Allendale, N. J., assignor to H. Kohnstamm & Co., Inc., New York, N. Y. Bluing composition and process. 1,921,635; Aug. 8.

Phillips Petroleum Company. (See Endacott, Paul S., assignor.)

Pier, Mathias, Heidelberg, Germany, assignor, by mesne assignments, to Standard-I. G. Company, Linden, N. J. Production of valuable hydrocarbons. 1,921,477; Aug. 8.

Pier, Mathias, Heidelberg, Germany, assignor, by mesne assignments, to Standard-I. G. Company, Linden, N. J. Production of valuable liquid hydrocarbons. 1,921,478; Aug. 8.

Pierce, John B., et al, receiver. (See Soulen, Harry B., assignor.)

Pierce, Lonnie J., assignor to American Window Glass Company, Pittsburgh, Pa. Apparatus for washing sheet glass. 1,921,479; Aug. 8.

Piggly Wiggly Corporation. (See Slattery, Joseph J., assignor.)

Pike, Merritt L., Thorofare, N. J. Prepayment gasolene pump meter. 1,921,775; Aug. 8.

Pioneer Fruit Harvesting Company. (See Behling, Arthur J., assignor.)

Pittsburgh Equitable Meter Company. (See MacLean, A. D., and Johnson, assignors.)

Plumstead, Joseph E., Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa. Producing puffed pulp. 1,921,371; Aug. 8.

Pogue, Robert B., Orange, N. J., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Brake shoe manufacture. 1,921,836; Aug. 8.

Pogue, Robert B., Orange, N. J., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Brake shoe. 1,921,837; Aug. 8.

Pogue, Robert B., Orange, N. J., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Brake shoe. 1,921,838; Aug. 8.

Pohl, Franz. (See Zschimmer, B., and Pohl.)

Polhemus, Charles B., San Jose, Calif. Header board stake. 1,921,302; Aug. 8.

Poock, Louis F. (See Syme, Charles R., assignor.)

Pool, William, Spondon, near Derby, England, assignor to Celanese Corporation of America. Loom having a stationary weft supply. 1,921,396; Aug. 8.

Poole, Trew F., et al. (See Roth, William A., assignor.)

Pope, Elmer R., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening inserting machine. 1,921,097; Aug. 8.

Pope Machinery Corporation. (See Staples, J. W., and Brooks, assignors.)

Porte, Pierre, Viroflay, France. Wrench. 1,921,822; Aug. 8.

Porte, Pierre, Viroflay, France. Wrench. 1,921,980; Aug. 8.

Porter Cable Machine Company, The. (See Emmons, Arthur N., assignor.)

Porter, John W., St. Louis, Mo., assignor to American Steel Foundries, Chicago, Ill. Pouring cup. 1,921,240; Aug. 8.

Potter, Albert T., Detroit, Mich., assignor to Ainsworth Manufacturing Corporation. Windshield operating mechanism. 1,921,260; Aug. 8.

Potter, Albert T., Detroit, Mich., assignor to Ainsworth Manufacturing Corporation. Hinge construction. 1,921,261; Aug. 8.

Potter, Albert T., Detroit, Mich., assignor to Ainsworth Manufacturing Corporation. Control means for windshields. 1,921,262; Aug. 8.

Powell, Alan R., and E. C. Davies, assignors to Johnson Matthey & Company Limited, London, England. Electrodeposition of palladium. 1,921,941; Aug. 8.

Pratt, William B., Wellesley, and R. T. Halstead, Boston, Mass., assignors to Dispersions Process, Inc., Dover, Del. Plasticising and dispersing cellulose acetate. 1,921,582; Aug. 8.

Precision Metal Workers. (See Grunwald, Albert C., assignor.)

Price, Albert O., Dover, assignor of one-fifth to Otto L. Busard, Uhrichsville, Ohio. Spraying apparatus. 1,921,698; Aug. 8.

Price, Stanley A. (See Lane, M. W., and Price.)

Priebe, Arthur W., assignor to A. O. Smith Corporation, Milwaukee, Wis. Electrically welded high pressure storage tank. 1,921,241; Aug. 8.

Priebe, Arthur W., assignor to A. O. Smith Corporation, Milwaukee, Wis. Scarf for electric arc welding thick metal articles. 1,921,242; Aug. 8.

Priest, Dwight E., assignor to Parker Wire Goods Company, Worcester, Mass. Securing and supporting device for concrete reenforcement. 1,921,538; Aug. 8.
Prochaska, Carroll W., New York, N. Y. Piston skirt expander. 1,921,429; Aug. 8.
Producto Machine Company, The. (See Marsilius, Newman M., assignor.)
Pullen, Rodney S., Akron, Ohio, assignor to Pullenlite Company, Philadelphia, Pa. Match packet and method. 1,921,372; Aug. 8.
Pullenlite Company. (See Pullen, Rodney S., assignor.)
Purdon, Frank, Herkimer, N. Y. Extensible handle. 1,921,323; Aug. 8.
Putnam, Mark E., assignor to The Dow Chemical Company, Midland, Mich. Conducting chemical reactions in liquid media. 1,921,373; Aug. 8.
Q-Tips, Inc. (See Bunnell, E. C., and Barnes, assignors.)
Quemin, Maurice, LeMans, France. Aeroplane. 1,921,636; Aug. 8.
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See May, Russell P., assignor.)
Radio Corporation of America. (See Roberts, Walter Van B., assignor.)
Radio Corporation of America. (See Whitaker, Alfred, assignor.)
Radio Corporation of America. (See Whitaker, A., and Hallawell, assignors.)
Radio Patents Corporation. (See MacDonald, Duncan M., assignor.)
Radio Patents Corporation. (See Weber, Paul, assignor.)
Radium Emanation Corporation. (See Kipe, Lorenzo D., assignor.)
Railway Engineering Equipment Company. (See Hawe, John E., assignor.)
Railway Service & Supply Corporation. (See Pearce, Edwin S., assignor.)
Raiziss, George W., and L. W. Clemence, Philadelphia, Pa., assignors to Abbott Laboratories, North Chicago, Ill. Basic bismuth compound of campho-carbonic acid. 1,921,638; Aug. 8.
Ranish, Harry, Los Angeles, Calif. Combination house cleaner. 1,921,637; Aug. 8.
Rapprich, Gustave, West New York, N. J. Sanitary couch. 1,921,134; Aug. 8.
Raschka, Charles, Wauwatosa, assignor to Super-Steel Products Company, Milwaukee, Wis. Skylight. 1,921,303; Aug. 8.
Räth, Curt, Opladen near Cologne, and F. Heckmanns, Leverkusen near Cologne, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Wood preserving media. 1,921,324; Aug. 8.
Rathbun, Frank J. (See Smith, H. L., Rathbun, and Forman.)
Ratier, Paulin J. P., Montrouse, France. Metallic propeller. 1,921,942; Aug. 8.
Rawlings, John J., assignor to The Rawlplug Company Limited, London, England. Bolt anchor. 1,921,981; Aug. 8.
Rawlplug Company, The. (See Rawlings, John J., assignor.)
Rawson, Arthur H. C. A., London, England, assignor to Autogiro Company of America, Willow Grove, Pa. Aircraft having freely rotative sustaining wings. 1,921,839; Aug. 8.
Ray, Charles T., assignor to B. F. Avery & Sons, Louisville, Ky. Tillage implement. 1,921,480; Aug. 8.
Raym, Willibald, Deus, K. Merteus, Klafeld, and A. Sülzer, Geisweid, assignors to Hundt & Weber Gesellschaft mit beschrankter Haftung, Geisweid, Germany. Preparing open and closed hollow bodies by centrifugal casting. 1,921,699; Aug. 8.
Raymond Concrete Pile Company. (See Hughes, T. L., and Twist, jr., assignors.)
Recen, Henry A., assignor of one-half to C. W. Burnheimer, Kokomo, Colo. Battery terminal or connecter. 1,921,840; Aug. 8.
Reed, Clyde I., Norwalk, Ohio. Cleaner for pipes, sewers, culverts, and the like. 1,921,098; Aug. 8.
Reed, Earl A., Wichita, Kans. Bit. 1,921,700; Aug. 8.
Reed, Earl A., Tulsa, Okla. Drill cutter. 1,921,701; Aug. 8.
Reed, Earl A., Garber, Okla. Bit. 1,921,702; Aug. 8.
Reed, George B., New York, assignor to Metropolitan Device Corporation, Brooklyn, N. Y. Ladder construction. 1,921,583; Aug. 8.
Reed Roller Bit Company. (See Childs, William L., assignor.)
Regal Shoe Company. (See Bliss, Elmer J., assignor.)
Reinhold, John J., Marietta, Pa. Cigarette carton. Des. 90,451; Aug. 8.
Reliance Manufacturing Company. (See Heyman, J. K., and Wenzel, assignors.)
Remington, Alfred M., assignor to Simonds Saw and Steel Company, Fitchburg, Mass. Method and apparatus for making band saws. 1,921,039; Aug. 8.
Remington Rand Inc. (See Finley, Charles A., assignor.)
Remington Rand Incorporated. (See Lasker, William W., assignor.)
Reo Motor Car Company. (See Thomas, Horace T., assignor.)
Replogle, John R., Detroit, Mich., assignor to Copeland Products, Inc. Condenser. 1,921,243; Aug. 8.
Reynolds, Adolph R., Columbia, S. C. Bottle filling machine. 1,921,244; Aug. 8.
Reynolds, Frank C., New York, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation. Combination window and radiator enclosure. 1,921,040; Aug. 8.
Reynolds, Frank C., New York, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation. Forming radiators. 1,921,041; Aug. 8.
Reynolds, John N., Princeton, N. J., and H. F. Dobbin, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromagnetic switching device. 1,921,430; Aug. 8.
Rheinische Metallwaaren und Maschinenfabrik Sommerda Aktiengesellschaft. (See Kottmann, August, assignor.)
Rhinelander Paper Company. (See Becker, Nils F., assignor.)
Rice, William H., and H. M. Lyon, Atlanta, Ga. Screened vent cap. 1,921,943; Aug. 8.
Richards, William H. (See Stevens, A. W., and Richards.)
Richardson Ball Bearing Skate Company. (See Whitcomb, Henry F., jr., assignor.)
Richardson, Mack, Homestead, Pa. Sleeping compartment for automobiles. 1,921,825; Aug. 8.
Richardson, Ralph S., Teaneck, N. J., assignor to Nitrogen Engineering Corporation, New York, N. Y. Synthetic production of methanol. 1,921,776; Aug. 8.
Richter, George A., assignor to Brown Company, Berlin, N. H. Chemical pulping process. 1,921,539; Aug. 8.
Richter, George A., assignor to Brown Company, Berlin, N. H. Manufacture of glassine papers. 1,921,540; Aug. 8.
Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Camera shutter. 1,921,541; Aug. 8.
Ridgers, Frederick G., assignor to N. Slater Company Limited, Hamilton, Ontario, Canada. Cable clip. 1,921,777; Aug. 8.
Riebel, Frederick, jr., assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio. Renewable wax cartridge for wax applicators. 1,921,944; Aug. 8.
Ritchie, Charles F., W. A. Gale, and W. H. Allen, assignors to American Potash & Chemical Corporation, Trona, Calif. Recovering potash salts from liquors containing borax. 1,921,481; Aug. 8.
Rivard, Lawrence B., Detroit, assignor to Ford Motors Company, Dearborn, Mich. Window regulator. 1,921,263; Aug. 8.
Rixson, Oscar C., Co., The. (See Garrison, Forrest C., assignor.)
Roberts Brass Manufacturing Company. (See Roberts, Earl W., assignor.)
Roberts, Earl W., assignor to Roberts Brass Manufacturing Company, Detroit, Mich. Gas lighter construction. 1,921,778; Aug. 8.
Roberts, Earl W., assignor to Roberts Brass Manufacturing Company, Detroit, Mich. Gas cock. 1,921,779; Aug. 8.
Roberts, Walter Van B., Princeton, N. J., assignor to Radio Corporation of America. Charging accumulators. 1,921,841; Aug. 8.
Roberts, William T. B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. 1,921,099; Aug. 8.
Robertson, Foster, Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation. Modifying venyl resins. 1,921,326; Aug. 8.
Robertson, Rollin W., Baltimore, Md. Oyster culture. 1,921,945; Aug. 8.
Robinson, Joseph, New York, N. Y. Automatic train pipe connecter. 1,921,207; Aug. 8.
Robinson, Joseph, New York, N. Y. Automatic train pipe connecter. 1,921,482; Aug. 8.
Robinson, Ward M., assignor to Mueller Brass Co., Port Huron, Mich. Mandrel. 1,921,584; Aug. 8.
Rockford Drilling Machine Co. (See Hughes, William F., assignor.)
Rockwood Sprinkler Company. (See Howard, Clifton P., and Lofgren, assignors.)
Roder, Hans, Scotia, N. Y., assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany. Elimination of key shocks. 1,921,859; Aug. 8.
Rodrigues, Ramon, and G. Chaves, McNary, Ariz. Tire rim for pneumatic tires. 1,921,245; Aug. 8.
Romie, Karl T., Los Angeles, Calif. Concrete block molding machine. 1,921,008; Aug. 8.
Rooker, William A., and V. E. Speas, assignors to Speas Mfg. Co., Kansas City, Mo. Food dressing and the like. 1,921,585; Aug. 8.
Roos, Delmar G., assignor to The Studebaker Corporation, South Bend, Ind. Fan. 1,921,042; Aug. 8.
Rosenberg, Joseph, New York, N. Y. Mirrored glass bow pin for wearing apparel. Des. 90,452; Aug. 8.
Rosenthal, Sidney, Cedarhurst, N. Y. Buckle. Des. 90,453; Aug. 8.
Rosenthal, Sidney, Cedarhurst, N. Y. Clasp. Des. 90,454; Aug. 8.
Roth, Henry J., et al. (See Roth, William A., assignor.)
Roth, Joseph N. (See Knapp, L. G., and Roth.)
Roth, William A., assignor of two-thirds to T. F. Poole, St. Paul, and H. J. Roth, New London, Minn. Airplane. 1,921,048; Aug. 8.

Rothermel, Samuel W. (See Hewitt, E. W., and Rothermel.)
Rouse, John H., Los Angeles, Calif. Photoelectric cell. 1,921,483; Aug. 8.
Royce Chemical Company. (See Petschow, Kurt J., assignor.)
Royden, George T., Palo Alto, Calif., assignor to International Communications Laboratories, Inc., New York, N. Y. Apparatus for controlling transmitters. 1,921,168; Aug. 8.
Rubber Service Laboratories Company. (See Sibley, Robert L., assignor.)
Rubel, Albert C. (See Hill, F. F., and Rubel.)
Rubin, Louis M., Baltimore, Md. Electric fixture. Des. 90,455; Aug. 8.
Rudolph, Walter H. (See Dayton, E. R., and Rudolph.)
Rudowitz, Isaac M., Brooklyn, N. Y. Folding box. 1,921,946; Aug. 8.
Rühlemann, Fritz, Wolfsgrun, and O. R. Herdey, Bautzen, Germany. Wood fiber mass. 1,921,780; Aug. 8.
Rushton, James L., assignor to Dobson & Barlow Limited, Bolton, England. Centrifugal machine. 1,921,842; Aug. 8.
Ryalls, John H., Richmond, Va. Battery terminal or connecter. 1,921,169; Aug. 8.
Ryan, Andrew M. (See Boyer, Clarence F., assignor.)
Sachs, Morris, New York, N. Y. Stair cushion. 1,921,781; Aug. 8.
Sack, Ernest A., Neuilly sur Seine, assignor to Compagnie Nationale de Matières Colorantes & Manufactures de Produits Chimiques du Nord Reunies Etablissements Kuhlmann, Paris, France. Manufacture of dyes containing chromium. 1,921,586; Aug. 8.
Sadinoff, Max, Brooklyn, N. Y. Curtain or the like. Des. 90,456; Aug. 8.
Sadinoff, Max, Brooklyn, N. Y. Drapery or the like. Des. 90,457; Aug. 8.
Safety Mining Company, The. (See Hodge, David, assignor.)
St. Maur, John B., assignor of one-fourth to F. M. Zoller, Rochester, N. Y. Automatic ejecting mechanism. 1,921,173; Aug. 8.
Salzer, Albert. (See Rayn, W., Mertens, and Salzer.)
Sampson, Charles H., assignor to Sampson Permagraph Company Inc., Rochester, N. Y. Clutch. 1,921,264; Aug. 8.
Sampson Permagraph Company Inc. (See Sampson, Charles H., assignor.)
Samuel, Arthur L., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Gaseous discharge device. 1,921,004; Aug. 8.
Sanford Manufacturing Co. (See Carpenter, William W. S., assignor.)
Sann, Otto, Johnstown, Pa. Mine jack. 1,921,542; Aug. 8.
Santiago, James J., assignor to John Grant, Los Angeles, Calif. Hydraulic underreamer. 1,921,135; Aug. 8.
Santiago, James J., assignor to John Grant, Los Angeles, Calif. Swivel joint. 1,921,136; Aug. 8.
Sanwald, Else, Pasing, near Munich, Germany. Zig-zag folding map. 1,921,832; Aug. 8.
Schaefer, Alfred H., Baltimore, Md. Rotary internal combustion motor. 1,921,782; Aug. 8.
Scheiber, William J. (See Kienle, R. H., and Scheiber.)
Schering-Kahlbaum A. G. (See Schoeller, W., Schwenk and Borgwardt.)
Schiller, Georg. (See Wietzel, G., and Schiller.)
Schiller, Robert M., Chicago, Ill. Drinking cup. Des. 90,458; Aug. 8.
Schimmel, Francois, Aulnay-Sous-Bois, and E. A. Bidault, Paris, France. Cryptographic printing apparatus. 1,921,327; Aug. 8.
Schlegel, Charles P., assignor to The Schlegel Manufacturing Company, Rochester, N. Y. Window channel. 1,921,484; Aug. 8.
Schlegel Manufacturing Company, The. (See Schlegel, Charles P., assignor.)
Schlissel, Morris, Brooklyn, assignor to Cosmopolitan Chemical Co. Inc., Long Island City, N. Y. Composition for treating water used in air conditioning apparatus and the like. 1,921,137; Aug. 8.
Schmidli, Adalbert, assignor to the firm of Sulzer Frères Société Anonyme, Winterthur, Switzerland. Water tube boiler. 1,921,639; Aug. 8.
Schmidt, Adam, assignor to A. Vogel, Vienna, Austria. Device for guiding implements, particularly the burner of cutting burner or welding machines. 1,921,887; Aug. 8.
Schmidt, Adam, assignor to A. Vogel, Vienna, Austria. Machine for guiding cutting or welding burners, electrodes, and like implements. 1,921,888; Aug. 8.
Schmidt, August, jr., Schenectady, N. Y., assignor to General Electric Company. Variable reactance device. 1,921,703; Aug. 8.
Schmidt, August, jr., Schenectady, N. Y., assignor to General Electric Company. Electric valve circuits. 1,921,704; Aug. 8.
Schneevoigt, Alwin, Ludwigshafen-on-the-Rhine, and H. Kralkalla, Mannheim, Germany, assignors to General Aniline Works Inc., New York, N. Y. Resist paste. 1,921,947; Aug. 8.
Schneider, Stefan, Philadelphia, Pa. Exhaust purifier. 1,921,783; Aug. 8.
Schnellpressenfabrik Aktiengesellschaft Heidelberg. (See Becker, Nikolaus, assignor.)
Schnitzspahn, August. (See Schober, O., and Schnitzspahn.)
Schnurer, Octave, Pittsburgh, Pa. Method of and apparatus for making building tiles. 1,921,100; Aug. 8.
Schober, Oskar, and A. Schnitzspahn, Horrem, near Cologne-on-the-Rhine, Germany, assignors to American Lurgi Corporation, New York, N. Y. Production of aluminum silicosulphide. 1,921,705; Aug. 8.
Schoeller, Walter, and E. Schwenk, Berlin-Westend, and E. Borgwardt, Berlin-Pankow, assignors to Schering-Kahlbaum, A. G., Berlin, Germany. Production of menthene. 1,921,188; Aug. 8.
Schoenwetter, Reinhold D. (See Marshall, Albert E., assignor.)
Schönfeld, Ulrich, assignor to Steatit-Magnesia Aktiengesellschaft, Berlin-Pankow, Germany. Electrical radiation apparatus. 1,921,543; Aug. 8.
Schopper, Walter, Hamburg, Germany. Production of pure arsenious oxide from arsenical product. 1,921,706; Aug. 8.
Schrauth, Walther, Berlin-Wilmersdorf, Germany, assignor, by mesne assignments, to E. I. du Pont de Nemours & Co., Wilmington, Del. Production of aliphatic di-carboxylic acids. 1,921,101; Aug. 8.
Schröter, Fritz, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Transmitter tube for ultra-short waves. 1,921,640; Aug. 8.
Schrucefer, John A., Ferndale, assignor to Gigelow-Liptak Corporation, Detroit, Mich. Furnace wall. 1,921,843; Aug. 8.
Schumacher, Hans, Berlin-Lichterfelde-West, assignor to C. Lorenz Aktiengesellschaft, Berlin-Templehof, Germany. Crystal controlled oscillator. 1,921,844; Aug. 8.
Schweitzer, Edmund O., Chicago, Ill. Electric oil cut-out. 1,921,005; Aug. 8.
Schweitzer, Edmund O., Chicago, Ill. Electric cut-out. 1,921,006; Aug. 8.
Schwenk, Erwin. (See Schoeller, W., Schwenk, and Borgwardt.)
Scott, James W., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Molding apparatus. 1,921,307; Aug. 8.
Scottish Dyes, Limited. (See Anderson, I. B., Thomson, and Thomas, assignors.)
Scottish Dyes, Limited. (See Barnes, R. S., Harris, and Thomas, assignors.)
Scruton, Heeward L., Minneapolis, Minn. Cover operator and holder for garbage cans and the like. 1,921,208; Aug. 8.
Seamless Rubber Company, The. (See De Laney, Wallace W., assignor.)
Seamless Rubber Company, The. (See Patterson, John W., assignor.)
Security Fire Door Company. (See Talen, Maurits, assignor.)
Sedwick, Matthew M. (See Kronquest, A. L., and Sedwick.)
Seeberg, Henry M. (See Levenberg, J. L., and Seeberg.)
Seger, Earl, assignor to Hudson Motor Car Company, Detroit, Mich. Feeder for portable tools. 1,921,485; Aug. 8.
Seguy, Jean D., assignor to The Universal Oil Products Company, Chicago, Ill. Process and apparatus for cracking hydrocarbon oil. 1,921,246; Aug. 8.
Seiferth, Hugo, Dusseldorf-Oberkassel, Germany. Apparatus for producing profile metals. 1,921,486; Aug. 8.
Selényi, Paul, Budapest, assignor to Egyesült Izzólámapács Villamossagi rt., Ujpest, Hungary. Discharge tube. 1,921,139; Aug. 8.
Semon, Waldo L., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber composition and preserving rubber. 1,921,007; Aug. 8.
Semon, Waldo L., and P. C. Jones, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Manufacture of secondary aromatic amines. 1,921,587; Aug. 8.
Seymour, Merrill W., assignor to Eastman Kodak Company, Rochester, N. Y. Colored screening layer for sensitive photographic elements. 1,921,545; Aug. 8.
Shadlowsky, Joseph, Passaic Park, N. J. Button. Des. 90,459; Aug. 8.
Shakeproof Lock Washer Company. (See Hosking, Richard T., assignor.)
Shanklin Manufacturing Co. (See Horsley, James H., assignor.)
Sharp, L. Alan, Avalon, Pa., assignor to National Electric Products Corporation, New York, N. Y. Marble ring holder for outlet boxes. 1,921,170; Aug. 8.
Shaw, Martin, Fenham Carr, Lancaster, England. Comb for the hair. 1,921,328; Aug. 8.
Shea, Timothy E., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Loading system. 1,921,431; Aug. 8.
Shelton, Herbert E., Hamburg, Iowa. Newspaper receiver. 1,921,889; Aug. 8.
Sheppard, Samuel E., assignor to Eastman Kodak Company, Rochester, N. Y. Optical cement. 1,921,948; Aug. 8.
Sheppard, Samuel E., assignor to Eastman Kodak Company, Rochester, N. Y. Treatment of cellulose esters. 1,921,949; Aug. 8.

Sheppard, Samuel E., assignor to Eastman Kodak Company, Rochester, N. Y. Nonfogging photographic packing materials. 1,921,950; Aug. 8.

Sherman, John Q., and A. W. Metzner, Dayton, Ohio, assignors, by direct and mesne assignments, to The Standard Register Company. Cash drawer manifolding device. 1,921,890; Aug. 8.

Shinn, Byron H., assignor to Shinn Devices Corporation, Washington, Pa. Pump for hydraulic systems. 1,921,008; Aug. 8.

Shinn Devices Corporation. (See Shinn, Byron H., assignor.)

Shipley, Roy A., assignor to National Fireproofing Corporation, Pittsburgh, Pa. Forming apparatus. 1,921,544; Aug. 8.

Shortt, Leo A., Waukon, Iowa. Pumping apparatus. 1,921,265; Aug. 8.

Shuman, Lawrence, assignor to The United Gas Improvement Company, Philadelphia, Pa. Apparatus for inflating and deflating gas main bags. 1,922,003; Aug. 8.

Sibley, Robert L., Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Treating process. 1,921,546; Aug. 8.

Siemens & Halske Aktiengesellschaft. (See Krambeer, Karl H., assignor.)

Siemens & Halske Aktiengesellschaft. (See Oertli, Josua, assignor.)

Siemens-Schuckertwerke Aktiengesellschaft. (See Korittke, Karl, assignor.)

Simmon, Karl A., Edgewood, Pa. Motor vehicle. 1,921,588; Aug. 8.

Simon, Lucien, and R. Marcon, Paris, France; said Marcon assignor, by mesne assignments, to said Simon. Shock absorber. 1,921,951; Aug. 8.

Simonds Saw and Steel Company. (See Remington, Alfred M., assignor.)

Skaggs, Henry, Lookout, W. Va. Electric blasting reel and cable. 1,921,009; Aug. 8.

Sklarek, Clifford, assignor to International Spotlight Corporation, Chicago, Ill. Dirigible light. 1,921,784; Aug. 8.

Sklarek, Clifford, assignor to International Spotlight Corporation, Chicago, Ill. Dirigible light. 1,921,785; Aug. 8.

Slater, N., Company Limited. (See Ridgers, Frederick G., assignor.)

Slattery, Joseph J., assignor to Piggly Wiggly Corporation, Cincinnati, Ohio. Advertising device. 1,921,102; Aug. 8.

Small, Horatio L., Esmont, Va., assignor to The Philip Carey Manufacturing Company. Coloring mineral matter. 1,921,010; Aug. 8.

Smith, A. O., Corporation. (See Heineman, Warren F., assignor.)

Smith, A. O., Corporation. (See Hetherington, George B., assignor.)

Smith, A. O., Corporation. (See Miller, Henry, assignor.)

Smith, A. O., Corporation. (See Priebe, Arthur W., assignor.)

Smith, A. O., Corporation. (See Ziska, Adam, assignor.)

Smith, Anthony N., assignor to Girard Model Works, Inc., Girard, Pa. Electrically lighted toy. 1,922,004; Aug. 8.

Smith, Charles J., assignor to Ford Motor Company, Dearborn, Mich. Engine. 1,921,266; Aug. 8.

Smith, Dennis W., Wilmette, assignor to Colborne Manufacturing Company, Chicago, Ill. Pie plate washing. 1,921,267; Aug. 8.

Smith, Dennis W., assignor to Colborne Manufacturing Co., Chicago, Ill. Dough rolling machine. 1,921,268; Aug. 8.

Smith, Frank A., Bloomfield, N. J. Radio log and holder therefor. 1,921,103; Aug. 8.

Smith, Glenn A., U. S. Navy, Long Beach, Calif. Flashlight. 1,921,171; Aug. 8.

Smith, Harold L., assignor to The Louis Allis Company, Milwaukee, Wis. Dynamo-electric machine rotor and cooling the same. 1,921,140; Aug. 8.

Smith, Harold L., F. J. Rathbun, and A. M. Forman, assignors to The Louis Allis Company, Milwaukee, Wis. Dynamo-electric machine. 1,921,845; Aug. 8.

Smith, Kenneth S., West Wimbledon, England, assignor to Eastman Kodak Company, Rochester, N. Y. Method of and apparatus for feeding webs or strips. 1,921,487; Aug. 8.

Smith, Kline & French Laboratories. (See Nabenhauer, Fred P., assignor.)

Smith, Nelson K., and R. K. Hertel, assignors to Byron Jackson Co., Los Angeles, Calif. Tubing catcher. 1,921,547; Aug. 8.

Smith, Thomas N., San Antonio, Tex. Bearing. 1,921,488; Aug. 8.

Smith, Titus K., Westfield, N. J. Gas or oil heating device. 1,921,104; Aug. 8.

Smith, William L., jr., and R. H. Lawson, Pawtucket, R. I., assignors to May Hosiery Mills, Nashville, Tenn. Stop motion for knitting machines. 1,921,707; Aug. 8.

Smith's, John E., Sons Company. (See Van Hooydonk, Adrian C., assignor.)

Smoot, Lewis E., Washington, D. C. Reversible tooth sprocket wheel and making same. 1,921,329; Aug. 8.

Snavely, Earl R., Union, assignor to E. L. Snavely, Newark, N. J. Combined house heating and domestic water heating system. 1,921,708; Aug. 8.

Snavely, Evelyn L. (See Snavely, Earl R., assignor.)

Snyder, Daniel O., Muncy, Pa. Horseshoe. 1,921,891; Aug. 8.

Societe Francaise des Glycerines. (See Boutet, Robert C. M. P. F., assignor.)

Society of Chemical Industry in Basle. (See Haller, Robert, assignor.)

Solar-Sturges Mfg. Co. (See Walker, James P., assignor.)

Solem, Peter A., Rockford, Ill. Drum type sander. 1,921,995; Aug. 8.

Sommer, John C., St. Louis, Mo. Drawing instrument and adjunctive parts thereof. 1,921,892; Aug. 8.

Sonoco Products Company. (See Stogner, Lawrence B., assignor.)

Soule, George C., and J. B. Woodbury, South Portland, assignors to Maine Steel Products Company, Portland, Maine. Snowplow. 1,921,874; Aug. 8.

Soulen, Harry B., Milwaukee, Wis., assignor to C. A. Dana and J. B. Pierce, receivers for the Fisk Rubber Company, Chicopee Falls, Mass. Juvenile tiring. 1,921,548; Aug. 8.

Southwark Foundry & Machine Company. (See Dinzl, Richard W., assignor.)

Spaan, Henri J., Surabaya, Java, Dutch East Indies. Apparatus for manufacturing ice in plates. 1,921,549; Aug. 8.

Sparks, Stanley W., New York, N. Y., assignor to C. H. Bickell, trustee. Making rolled steel valve bodies. 1,921,589; Aug. 8.

Sparks, Stanley W., Norwalk, Conn., assignor to C. H. Bickell, trustee. Valve. 1,921,846; Aug. 8.

Sparks-Withington Company, The. (See Kayko, Charles J., assignor.)

Sparrow, Stanwood W., assignor to The Studebaker Corporation, South Bend, Ind. Bearing. 1,921,044; Aug. 8.

Spear, Leolyn F., Westfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Fuel feed control for oil burners. 1,921,105; Aug. 8.

Spear, Walter A., assignor, by mesne assignments, to Victor Electric Products, Inc., Cincinnati, Ohio. Synchronous motor clock. 1,921,847; Aug. 8.

Speas Mfg. Co. (See Booker, W. A., and Speas, assignors.)

Speas, Victor E. (See Booker, W. A., and Speas.)

Speck, Walter, Haledon, N. J., assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,460; Aug. 8.

Spence, Hubert L., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Coupler yoke. 1,921,011; Aug. 8.

Spencer, Gerald G. (See Mott, C., and Spencer.)

Sperry Gyroscope Company. (See Wittkuhns, Bruno A., assignor.)

Sperry Products, Inc. (See Jones, George L., assignor.)

Spindler, William H., et al, trustee. (See Connell, Sidney, assignor.)

Sproul, Donald F., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Draft gear. 1,921,045; Aug. 8.

Sproul, Donald F., Chicago, Ill., assignor to Cardwell Westinghouse Company. Draft gear. 1,921,046 Aug. 8.

Square D Company. (See Van Valkenburg, Hermon L., assignor.)

Staf, Axel H., assignor to Gorham Mfg. Co., Providence, R. I. Spoon or similar article. Des. 90,461; Aug. 8.

Stallard, Burrell, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Constant temperature apparatus. 1,921,432; Aug. 8.

Standard-I. G. Company. (See Pier, Mathias, assignor.)

Standard-Johnson Company. (See Donnellan, Edward P., assignor.)

Standard Oil Company. (See Bahlke, William H., assignor.)

Standard Oil Company (Indiana). (See Hackett, George V., assignor.)

Standard Oil Company (Indiana). (See Voorhees, Vanderveer, assignor.)

Standard Register Company, The. (See Sherman, J. Q., and Metzner, assignors.)

Staples, John W., Haverhill, and W. C. Brooks, Groveland, assignors to Pope Machinery Corporation, Haverhill, Mass. Heel-concaving machine. 1,921,641; Aug. 8.

Staud, Cyril J. (See Webber, C. S., and Staud.)

Staude, Edwin G., Minneapolis, Minn. Paper box machine. 1,921,269; Aug. 8.

Staude, Edwin G., Minneapolis, Minn. Fluid power controlling mechanism. 1,921,590; Aug. 8.

Steatit-Magnesia Aktiengesellschaft. (See Schönfeld, Ulrich, assignor.)

Stecher, Henry D., assignor to The Weatherhead Company, Cleveland, Ohio. Pipe coupling. 1,921,709; Aug. 8.

Steel-Clad Products Company, The. (See Morgan, David T., assignor.)

Steele, John G., Latrobe, Pa. Propelling device. 1,921,893; Aug. 8.

Stein, Edward J., Belle Vernon, assignor to American Window Glass Company, Pittsburgh, Pa. Cutting table. 1,921,489; Aug. 8.

Stemman, Herman, Stevensville, Mont. Sickle bar divider attachment. 1,921,952; Aug. 8.

Stephens, Levi T., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for making sheets or films. 1,921,953; Aug. 8.

Stephenson, Laurence E., assignor to Frederick Snare Corporation, New York, N. Y. Pipe joint and forming same. 1,921,642; Aug. 8.

Sterling Company, The. (See Caston, Johnnye L., assignor.)

Sterling Wheelbarrow Company. (See Mueller, Edward C., assignor.)

Stevens, Albert W., and W. H. Richards, Dayton, Ohio. Photographic film developing apparatus. 1,921,012; Aug. 8.

Stevens, George H., Newark, N. J. Vulcanizing rubber. 1,921,375; Aug. 8.

Stevenson, Robert E., Indianapolis, Ind. Automobile extensible trunk. 1,921,304; Aug. 8.

Stewart, Donald H., assignor to Eastman Kodak Company, Rochester, N. Y. Motion picture and sound record film. 1,921,954; Aug. 8.

Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,921,490; Aug. 8.

Stiff, Fred C. (See Connors, G. H., and Stiff.)

Stimpson, Walter F., Detroit, Mich., and W. E. Finch, Bareville, Pa.; said Finch assignor to said Stimpson. Temperature compensating means for weighing scales. 1,921,848; Aug. 8.

Stocking, William B., assignor to The Williams Brothers Manufacturing Company, Glastonbury, Conn. Plating. 1,922,005; Aug. 8.

Stogner, Lawrence B., assignor to Sonoco Products Company, Hartsville, S. C. Grinding machine. 1,921,833; Aug. 8.

Stöhr, Max, Berlin-Spandau, Germany, assignor to General Electric Company. Regulating system. 1,921,710; Aug. 8.

Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Spare wheel lock. 1,921,434; Aug. 8.

Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Padlock. 1,921,435; Aug. 8.

Storck, Adam, et al. (See Howell, Harry L., assignor.)

Strachan, Thomas H., assignor to Dayton Scale Company, Dayton, Ohio. Poise attachment. 1,921,436; Aug. 8.

Streitwolf, Karl, Frankfort-on-the-Main, A. Fehrle, Bad Soden-on-Taunus, W. Hertmann and P. Fritzsche, Frankfort-on-the-Main, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Acylamino benzene stibonic acids. 1,921,850; Aug. 8.

Structural Gypsum Corporation. (See Davis, C. F., and Brush, assignors.)

Studebaker Corporation, The. (See Roos, Delmar G., assignor.)

Studebaker Corporation, The. (See Sparrow, Stanwood W., assignor.)

Stupell, Leo K., New York, N. Y. Ornament. 1,921,437; Aug. 8.

Sturm, Ernst, Berlin-Laukwitz, assignor to the Firm Johann A. Wulfing, Berlin, Germany. Manufactore and separation of sulphur-containing products of the acid hydrolysis of keratin and keratin substances. 1,921,898; Aug. 8.

Sturtevant, B. F., Company. (See Bentley, Oliver D. H., assignor.)

Subject, Felix A. (See Tolman, J. E., and Subject.)

Suits, Chauncey G., Schenectady, N. Y., assignor to General Electric Company. Nonlinear circuit. 1,921,786; Aug. 8.

Suits, Chauncey G., Schenectady, N. Y., assignor to General Electric Company. Pulsation apparatus. 1,921,787; Aug. 8.

Suits, Chauncey G., Schenectady, N. Y., assignor to General Electric Company. Electric control system. 1,921,788; Aug. 8.

Suits, Chauncey G., Schenectady, N. Y., assignor to General Electric Company. Pulsation apparatus. 1,921,789; Aug. 8.

Sullivan Machinery Company. (See Hughes, William E., assignor.)

Sulzer Frères Société Anonyme. (See Schmidlu, Adalbert, assignor.)

Superheater Company, The. (See Broido, Benjamin N., assignor.)

Superheater Company, The. (See Broido, B., and Le Vally, assignors.)

Superheater Company, The. (See Kershaw, George E., assignor.)

Superheater Company, The. (See McKee, Neal T., assignor.)

Superheater Company, The. (See True, Charles H., assignor.)

Super-Steel Products Company. (See Raschka, Charles, assignor.)

Superior Paper Products Company. (See Bohnke, Herman C., assignor.)

Superior Switchboard & Devices Company, The. (See Grace, Richard W., assignor.)

Swallen, James W., Kansas City, Mo. Tire pressure indicator. 1,921,550; Aug. 8.

Swanson, Earl R., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Railway car. 1,921,106; Aug. 8.

Sword, Rowland P., Philadelphia, Pa., assignor, by mesne assignments, to The Electric Incinerators Corporation. Incinerator firing element. 1,921,047; Aug. 8.

Sword, Rowland P., assignor to Electric Incinerators Incorporated, Philadelphia, Pa. Electric incinerator. 1,921,790; Aug. 8.

Syme, Charles R., Detroit, Mich., assignor to L. F. Poock, Dayton, Ohio. Adjusting the plungers of measuring instruments. 1,921,791; Aug. 8.

Symington Company, The. (See Casey, Howard T., assignor.)

Symington Company, The. (See Couch, Glenn F., assignor.)

Symington, T. H., & Son, Inc. (See Dreuning, Percy E., assignor.)

Symington, T. H., & Son, Inc. (See Symington, Thomas H., assignor.)

Symington, Thomas H., assignor to T. H. Symington & Son, Inc., Baltimore, Md. Bolster bearing device. 1,921,894; Aug. 8.

Szidon, Viktor, Paris, France. Manufacture of zinc white. 1,921,591; Aug. 8.

Szilagyi, Joseph, New York, N. Y. Sanitary smoking stem for pipes, cigars, and the like. 1,921,792; Aug. 8.

Tabulating Machine Company, The. (See Carroll, Fred M., assignor.)

Tabulating Machine Company, The. (See Daly, George F., assignor.)

Tabulating Machine Company, The. (See Gutgesell, William F., assignor.)

Tabulating Machine Company, The. (See Jones, John T., assignor.)

Talen, Maurits W., assignor to Security Fire Door Company, St. Louis, Mo. Door operating mechanism. 1,921,849; Aug. 8.

Talley, Randal E., Irwin, assignor to George J. Hagan Company, Pittsburgh, Pa. Pawl conveyer for continuous heating furnaces. 1,921,592; Aug. 8.

Talt, Daniel H., Stockton, Calif. Pocket sheath for fountain pens. 1,921,270; Aug. 8.

Tamarin, Bernard J., Philadelphia, Pa. Cord take-up structure. 1,921,438; Aug. 8.

Tamarin, Bernard J., Philadelphia, Pa. Vacuum cleaner handle structure. 1,921,439; Aug. 8.

Taurisano, Peter, Springfield, Mass. Fuel mixing apparatus. 1,921,895; Aug. 8.

Taylor, Elbert A., Arlington Heights, Ill., M. D. Pence, New York, N. Y., and C. A. Dunham, Glencoe, Ill., assignors to C. A. Dunham Company, Marshalltown, Iowa. Average temperature control mechanism for heating systems. 1,921,172; Aug. 8.

Taylor, Eugene S., et al. (See Haug, Eugene H., assignor.)

Taylor, Eugene V., Chicago, Ill., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,921,593; Aug. 8.

Taylor, Harden F., Scarsdale, assignor to The Atlantic Coast Fisheries Company, New York, N. Y. Method of and apparatus for skinning fish. 1,921,440; Aug. 8.

Taylor Instrument Companies. (See Foote, Edward B., assignor.)

Taylor Instrument Companies. (See Foote, E. B., and Newell, assignors.)

Taylor, Orville G., and G. T. McDonald, assignors of two-fifths to Ikel C. Benson, Minneapolis, Minn., and three-fifths to said McDonald. Paspartouting machine for lamp shades, baskets, and the like. 1,921,013; Aug. 8.

Tector, Macy O., Newcastle, assignor to The Perfect Circle Company, Hagerstown, Ind. Piston. 1,921,648; Aug. 8.

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Baranwosky, Raoul, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Ewald, Wolfgang E., assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Leib, August, assignor.)

Telefunken Gesellschaft für Drahtlose Telephonie m. b. H. (See Roder, Hans, assignor.)

Telefunken Gesellschaft für Drahtlose Telephonie m. b. H. (See Schröter, Fritz, assignor.)

Teletype Corporation. (See Benjamin, Abraham S., assignor.)

Temple, Paul C., assignor to A. W. Cash Company, Decatur, Ill. Valve mechanism. 1,921,551; Aug. 8.

Templeton, Bryce O., Queens Village, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric resistance device. 1,921,441; Aug. 8.

Terry, Roy V. (See Kuhn, J. J., and Terry.)

Teupel, Ernst. (See Wahl, O., Müller, Gohn, and Teupel.)

Texas Company, The. (See Burden, Oscar R., assignor.)

Thelander, Carl A., Rockford, assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Spring testing machine. 1,921,793; Aug. 8.

Therm-A-Mode, Inc. (See Burkholder, John D., assignor.)

Thomas, Albert G., Lynchburg, Va. Gazing globe. 1,921,896; Aug. 8.

Thomas & Betts Co., The. (See Buchanan, Stephen N., assignor.)

Thomas, Horace T., assignor to Reo Motor Car Company, Lansing, Mich. Clutch. 1,921,048; Aug. 8.

Thomas, John. (See Anderson, I. B., Thomson, and Thomas.)

Thomas, John. (See Barnes, R. S., Harris, and Thomas.)

Thompson, Albert R., assignor to Food Machinery Corporation, San Jose, Calif. Cooking and cooling apparatus. 1,921,442; Aug. 8.

Thompson, Robert H., Pottsville, Pa. Steering mechanism. 1,921,141; Aug. 8.

Thompson, Walter S., assignor to Morgan & Wright, Detroit, Mich. Ply stretching apparatus. 1,921,594; Aug. 8.
Thomson, Robert F. (See Anderson, I. B., Thomson, and Thomas.)
Thornton, John E., Jersey, British Isles. Dye printing plate and sensitized material therefor. 1,921,050; Aug. 8.
Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,921,552; Aug. 8.
Timken-Detroit Axle Company, The. (See Morgan, Mathew B., assignor.)
Timken Roller Bearing Company, The. (See Horger, Oscar J., assignor.)
Timken Silent Automatic Company. (See Beckett, Reginald W., assignor.)
Titus, Harold R. (See Chase, H. A., and Titus.)
Tober, Carl, Berlin-Karlshorst, Germany. Braiding machine. 1,921,174; Aug. 8.
Tobin, Kenneth J., and A. Wasberg, assignors to Camel Company, Chicago, Ill. Car door construction. 1,921,644; Aug. 8.
Todd, Clarence L., Pittsburgh, Pa. Suspended arch for furnaces and tile therefor. 1,921,107; Aug. 8.
Tolman, John E., and F. A. Subject, Yuba City, Calif. Gaming device. Des. 90,462; Aug. 8.
Tomkinson, Charles C., Plainfield, assignor to J. Edward Ogden Company, Inc., East Orange, N. J. Expansion shield or anchor. 1,921,794; Aug. 8.
Tomlin, John R., Brooklyn, assignor to R. Hoe & Co., Inc., New York, N. Y.; Irving Trust Company, receiver. Bearing for rotary printing machines. 1,921,443; Aug. 8.
Tompkins, John J., assignor of one-half to G. E. Moore, Chicago, Ill. Baffle wall. 1,921,049; Aug. 8.
Tönnies, Hans F., Altona-Gross-Flottbek, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Focusing device for photographic cameras. 1,921,898; Aug. 8.
Topham, Laurence E., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe sewing machine. 1,921,897; Aug. 8.
Towler, Clifford O., assignor to Wolseley Motors (1927) Limited, Birmingham, England. Ventilating the crank cases of internal combustion engines. 1,921,175; Aug. 8.
Townsley, Hugh B., Spokane, Wash. Rim for tires. 1,921,331; Aug. 8.
Traut, Clifford, assignor to The Higgin Manufacturing Company, Newport, Ky. Access panel latch. 1,921,051; Aug. 8.
True, Charles H., Chicago, Ill., assignor to The Superheater Company, New York, N. Y. Injector. 1,921,444; Aug. 8.
Turnbow, Grover D. (See Gray, C. E., and Turnbow.)
Twiss, Douglas F. (See Murphy, E. A., Owen, and Twiss.)
Twiss, Douglas F., Wylde Green, A. E. T. Neale, Ward End, and A. S. Carpenter, Walmley, assignors to Dunlop Rubber Company, Limited, Birmingham, England. Tennis and the like playing balls. 1,921,108; Aug. 8.
Twist, Albert E., jr. (See Hughes, T. L. and Twist, jr.)
Underwood Elliott Fisher Company. (See Stickney, Burnham C., assignor.)
Underwood, John T., Alma, Ark. Kiln. 1,921,553; Aug. 8.
Underwood, Weeden B., assignor to American Sterilizer Company, Erie, Pa. Washing device. 1,921,052; Aug. 8.
Union Bank of Chicago, trustee. (See Cowles, Irving, assignor.)
Union Carbide and Carbon Research Laboratories Inc. (See Mott, C., and Spencer, assignors.)
Union Oil Company of California. (See Hill, F. F., and Rubel, assignors.)
Union Railway Equipment Company. (See O'Connor, Arthur F., assignor.)
United Aircraft Products, Inc. (See Hiester, Theodore M., assignor.)
United Elastic Corporation. (See Van Voorhis, George S., assignor.)
United Gas Improvement Company. (See Brady, Edward J., assignor.)
United Gas Improvement Company, The. (See Hall, Edwin L., assignor.)
United Gas Improvement Company, The. (See Shuman, Lawrence, assignor.)
United Research Corporation. (See Berkowitz, Michael, assignor.)
United Shoe Machinery Corporation. (See Finn, Sidney J., assignor.)
United Shoe Machinery Corporation. (See Hill, Chester A., assignor.)
United Shoe Machinery Corporation. (See La Chapelle, Fred N., assignor.)
United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)
United Shoe Machinery Corporation. (See Pope, Elmer R., assignor.)
United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)
United Shoe Machinery Corporation. (See Topham, Laurence E., assignor.)
United Shoe Machinery Corporation. (See Warren, Harold, assignor.)
U. S. Industrial Alcohol Co. (See Hildebrandt, Frank M., assignor.)
Universal Draft Gear Attachment Co. (See Sproul, Donald F., assignor.)
Universal Oil Products Company. (See Seguy, Jean D., assignor.)
Universal Products Company, The. (See Warner, Archibald A., assignor.)
Unkefer, George R., Chicago, Ill. Lure. 1,921,176; Aug. 8.
Upson Company, The. (See Winter, Otto R., assignor.)
Usdan, David. (See Hacker, Emanual M., assignor.)
Van Buskirk, Lesher W., Easton, Pa. Power shovel dipper. 1,921,491; Aug. 8.
Van Cleef Bros. (See Van Cleef, Paul, assignor.)
Van Cleef, Paul, assignor to Van Cleef Bros., Chicago, Ill. Shoe sole. Des. 90,463; Aug. 8.
Vanderbilt, R. T., Company. (See Murril, Paul I., assignor.)
Van Derhoef, George N., South Bend, assignor to Dodge Manufacturing Corporation, Mishiwaka, Ind. Conveyer roll. 1,921,445; Aug. 8.
Vanderploeg, Henry, assignor to Haggard & Marcusson Company, Chicago, Ill. Hook-ended coiled springs. 1,921,209; Aug. 8.
VanHooydonk, Adrian C., assignor to John E. Smith's Sons Company, Buffalo, N. Y. Piston construction. 1,921,995; Aug. 8.
Vannini, Philipp, assignor, by mesne assignments, to Landis & Gyr, A.-G., Zug, Switzerland. Clock. 1,921,595; Aug. 8.
Van Valkenburg, Hermon L., Wauwatosa, Wis., assignor to Square D Company, Detroit, Mich. Switch. 1,921,272; Aug. 8.
Van Valzah, Robert W., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Exhausting mechanism. 1,921,399; Aug. 8.
Van Voorhis, George S., Littleton, assignor to United Elastic Corporation, Easthampton, Mass. Elastic webbing and making same. 1,922,020; Aug. 8.
Verderber, Joseph. (See Batterman, E. F., and Verderber.)
Vereinigte Eisenbahn-Signalwerke G. m. b. H. (See Möller, Karl, assignor.)
Vicars, Robert. (See Barker, Alfred F., assignor.)
Vickerman, Robert E., Philadelphia, Pa., assignor to Acme Axminister Loom Spool Company, Incorporated, New York, N. Y. Setting loom spools. 1,921,053; Aug. 8.
Vickers, Harry F., Los Angeles, Calif. Hydraulic mechanism. 1,921,955; Aug. 8.
Vickers, Harry F., Detroit, Mich. Control for heat-treating apparatus. 1,921,956; Aug. 8.
Vickers, S. Ernest. (See Kenney, M. W., and Vickers.)
Victor Electric Products, Inc. (See Spear, Walter A., assignor.)
Vogel, Alfred. (See Schmidt, Adam, assignor.)
Vollmann, Heinrich. (See Kränslein, G., Greune, Corell, and Vollmann.)
Von Gruber, Otto. (See Bauersfeld, W., and von Gruber.)
Von Hoessle, Carl H., assignor to Chemische Fabrik Von Heyden A. G., Redebeul, near Dresden, Germany. Making colloidal solutions of inorganic substances in polyalcohols. 1,922,006; Aug. 8.
Voorhees, Vanderveer, Hammond, Ind., assignor to Standard Oil Company (Indiana), Chicago, Ill. Distillation. 1,921,850; Aug. 8.
Voress, Clyde L., Charleston, W. Va. Cleaning fluid. 1,921,054; Aug. 8.
Vucassovich, Michel P., Gloucester, Mass. Method of and apparatus for preparing fish and fillets for storage. 1,921,055; Aug. 8.
Wachter, Francis J., et al. (See Howell, Harry L., assignor.)
Wahl, Ottmar, Leverkusen-I. G. Werk, Werner Müller, Cologne-on-the-Rhine, A. Kohn, Leverkusen-I. G. Werk, and E. Teupel, Leverkusen-Wiesdorf, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Triarylmethane dyestuff. 1,921,334; Aug. 8.
Waite & Bartlett X-Ray Manufacturing Company. (See Bishop, Francis W., assignor.)
Wald, Max, New York, N. Y. Signaling device. 1,921,273; Aug. 8.
Walker, Hervey S., Ardmore, Pa. Duct fitting. 1,921,056; Aug. 8.
Walker, Hervey S., Ardmore, Pa. Duct connection box. 1,921,057; Aug. 8.
Walker, James P., Maywood, assignor to Solar-Sturges Mfg. Co., Melrose Park, Ill. Milk can and making same. 1,921,247; Aug. 8.
Wallgren, August G. F., and C. G. Janson, assignors to Aktiebolaget Nomy, Stockholm, Sweden. Bearing. 1,921,957; Aug. 8.
Wallgren, August G. F., and C. G. Janson, assignors to Aktiebolaget Nomy, Stockholm, Sweden. Bearing. 1,921,958; Aug. 8.
Walls, Grover W. (See Hume, G. B., and Walls.)
Walter, Edward C., Orange, N. J. Landing net. 1,921,596; Aug. 8.
Wangemann, Paul, Berlin, Germany. Producing water gas. 1,921,711; Aug. 8.
Ward, Louis E., assignor to The Dow Chemical Company, Midland, Mich. Apparatus for electrolysis of fused bath. 1,921,376; Aug. 8.

Ward, Louis E., assignor to The Dow Chemical Company, Midland, Mich. Electrolytic apparatus. 1,921,377; Aug. 8.
Ward, Rufus L. Irving Tex. Road maintenance machine. 1,921,712; Aug. 8.
Warner, Archibald A., Royal Oak, Mich., assignor to The Universal Products Company, Inc. Universal joint. 1,921,274; Aug. 8.
Warren, Harold, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of boots and shoes. 1,921,058; Aug. 8.
Warren, Harry L., Kinmundy, Ill. Material transporting and handling apparatus. 1,921,959; Aug. 8.
Wasberg, Axel. (See Tobin, K. J., and Wasberg.)
Watanabe, Chikazo, Los Angeles, Calif. Shoe. 1,921,177; Aug. 8.
Waterbury Farrel Foundry and Machine Company, The. (See Burbank, Louis S., assignor.)
Watkins, George B. (See Fraser, F., and Watkins.)
Weatherhead Company, The. (See Stecher, Henry D., assignor.)
Webb, Jervis B., Royal Oak, and D. A. Blair, Detroit, Mich. Conveyer system. 1,921,109; Aug. 8.
Webbeking, Carl H., Waterloo, Iowa. Micrometer caliper attachment. 1,921,899; Aug. 8.
Webber, Charles S., and C. J. Staud, assignors to Eastman Kodak Company, Rochester, N. Y. Electrolytic process for simultaneously bleaching and removing metallic impurities from cellulose esters. 1,921,492; Aug. 8.
Webel, Franz, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of polymerization products from alkylene oxides. 1,921,378; Aug. 8.
Weber, Clifford P., assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Divided middle ring coupling. 1,921,400; Aug. 8.
Weber, Paul, Magdeburg, Germany, assignor, by mesne assignments, to Radio Patents Corporation, New York, N. Y. Toy gun. 1,921,017; Aug. 8.
Weichel, William J., et al. (See Howell, Harry L., assignor.)
Weidling, Frederick J. (See Maxwell, R. H., and Weidling.)
Well, Joseph M., Phillipsburg, N. J., and L. Wilson, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Fuel burner. 1,921,059; Aug. 8.
Weller, Otto L., Brooklyn, N. Y. Seat for cleaning windows. 1,921,401; Aug. 8.
Weiss, Carl W., Brooklyn, N. Y. Transmission. 1,921,014; Aug. 8.
Welles, Albert B., assignee. (See Johnson, H., and Aune.)
Wellman, Howard C., and N. B. Green, assignors to Eastman Kodak Company, Rochester, N. Y. Drive release and brake for a spindle. 1,921,554; Aug. 8.
Welsh, Frank J., Parma Heights Village, Ohio. Sealing ring. 1,921,555; Aug. 8.
Wenzel, Alfred F. (See Heyman, J. K., and Wenzel.)
Werner, Rudolf, Maywood, Ill. Peanut butter and making the same. 1,921,275; Aug. 8.
West, Harry R., Pittsfield, Mass., assignor to General Electric Company. Electrical compensating arrangement. 1,921,713; Aug. 8.
Western Electric Company. (See Arkema, Harold P., assignor.)
Western Electric Company. (See Bedford, Leslie H., assignor.)
Western Electric Company. (See Bell, C. W., and Dillon, assignors.)
Western Electric Company. (See Lane, M. W., and Price, assignors.)
Western Electric Company. (See Larsen, Einer W., assignor.)
Western Electric Company. (See Scott, James W., assignor.)
Western Electric Company. (See VanValzah, Robert W., assignor.)
Western Union Telegraph Company, The. (See Hewitt, E. W., and Rothermel, assignors.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Kruck, R. E., and Hochstetter, assignors.)
Westinghouse Electric Elevator Company. (See Kinnard, Luther J., assignor.)
Weyerts, Walter J., and K. C. D. Hickman, assignors to Eastman Kodak Company, Rochester, N. Y. Reclaiming film scrap with an alcoholic alkali solution. 1,921,960; Aug. 8.
Whalen, Edward J., assignor to Aluminum Company of America, Pittsburgh, Pa. Grinding machine. 1,921,714; Aug. 8.
Wharton, Edward R., Medford, Mass. Lubricating device for bearings. 1,921,556; Aug. 8.
Wheary, George H., assignor to Wheary Trunk Company, Racine, Wis. Luggage. 1,921,110; Aug. 8.
Wheary Trunk Company. (See Wheary, George H., assignor.)
Whitaker, Alfred, West Drayton, England, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Light controlling, method and means. 1,921,852; Aug. 8.
Whitaker, Alfred, West Drayton, and A. M. Hallawell, Wallington, England, assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y. Preparation of sound records for reproduction in combination with moving pictures. 1,921,853; Aug. 8.
Whitcomb, Henry F., jr., Milwaukee, Wis., assignor to Richardson Ball Bearing Skate Company, Chicago, Ill. Roller skate. 1,921,018; Aug. 8.
White, Alphonzo. (See Whitney, W. M., and White.)
White, Birdora H., Chicago, Ill., assignor to Parva Products Company, Hillsdale, Mich. Hose supporter. 1,921,851; Aug. 8.
White Motor Company, The. (See Church, Harold D., assignor.)
Whitney, Baxter D., & Son, Inc. (See Whitney, W. M., and White, assignors.)
Whitney, William M., and A. White, assignors to Baxter D. Whitney & Son, Inc., Winchendon, Mass. Wood shaper. 1,921,715; Aug. 8.
Whittaker, Frederick A., assignor to Marathon Company, Attleboro, Mass. Combination cigarette case and lighter. 1,921,854; Aug. 8.
Whittaker, Frederick A., assignor to Marathon Company, Attleboro, Mass. Combination cigarette case and lighter. 1,921,855; Aug. 8.
Whittall, Hubert V., assignor to Huntting-Merritt Lumber Co. Ltd., Vancouver, British Columbia, Canada. Process for the surface finishing of lumber and shingles. 1,921,335; Aug. 8.
Wiedemann, Karl, Leverkusen-I. G. Werk and H. Clingestein, Cologne-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Copper-containing azodyestuff. 1,921,336; Aug. 8.
Wiedemann, Karl, Leverkusen-I. G. Werk, and H. Clingestein, Cologne-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Copper-containing azodyestuff. 1,921,337; Aug. 8.
Wiesman, William A., assignor of one-half to R. F. Behringer, Dayton, Ohio. Shield for hot air registers or the like. 1,921,305; Aug. 8.
Wietzel, Gustav, Ludwigshafen-on-the-Rhine, and G. Schiller, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of gaseous mixtures containing hydrogen and nitrogen from methane. 1,921,856; Aug. 8.
Wilcox, George, Riverside, Calif., assignor to California Canning Machinery Company. Peach pitting machine. 1,921,276; Aug. 8.
Wilcoxson, John F., Vernal, Utah. Cutter bar operating means. 1,921,493; Aug. 8.
Wildhaber, Ernest, Brooklyn, N. Y. Producing audible pictures. 1,921,494; Aug. 8.
Wiley, Raymond D., assignor to Dayton Scale Company, Dayton, Ohio. Tape drive. 1,921,402; Aug. 8.
Willett, Charles G. (See Dean, George E., assignor.)
Willheim, William, New York, N. Y. Textile fabric or similar article. Des. 90,465; Aug. 8.
Willheim, William, New York, N. Y. Textile fabric or similar article. Des. 90,466; Aug. 8.
Williams Brothers Manufacturing Company, The. (See Stocking, William R., assignor.)
Williams, Clyde E., Columbus, Ohio. Purifying metals. 1,921,060; Aug. 8.
Williams, French B. (See McDonough, J. L., and Williams.)
Williams, Merton F., and C. F. Morse, Danvers, Mass. Supplemental table top. 1,921,645; Aug. 8.
Wilms, Gustav O., assignor to Allen-Bradley Company, Milwaukee, Wis. Switch. 1,921,795; Aug. 8.
Wilson, Thomas C., Incorporated. (See Young, James H., assignor.)
Winfield, Edward A., La Canada, Calif. Carburetor. 1,921,142; Aug. 8.
Winter Otto R, Cincinnati, Ohio, assignor to The Upson Company, Lockport, N. Y. Machine for making bats. 1,921,495; Aug. 8.
Winthrop Chemical Company. (See Berendes, R., and Kropp, assignors.)
Winthrop Chemical Company. (See Rath, C., and Heckmanns, assignors.)
Winthrop Chemical Company, Inc. (See Streitwolf, K., Fehrle, Herrmann, and Fritzsche, assignors.)
Wired Radio, Inc. (See Dawson, Leo H., assignor.)
Wired Radio, Inc. (See Hyland, Lawrence A., assignor.)
Wise, Roger M., Emporium, Pa. Vacuum tube. 1,921,061; Aug. 8.
Wittkuhns, Bruno A., Chatham, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Remote control system. 1,921,982; Aug. 8.
Wittkuhns, Bruno A., Chatham, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Follow-up device for gyro compasses. 1,921,983; Aug. 8.
Wittliff, Theodore H., Cleveland, Ohio. Brace for articles of furniture. 1,921,143; Aug. 8.
Wolf, Eugene G., assignor to Landis Machine Company, St. Louis, Mo. Shoe stitcher. 1,921,277; Aug. 8.
Wolf Machine Company, The, et al. (See Clark, Frederick J., assignor.)
Wolfe, Leonard W., Liberty, Ind., assignor, by mesne assignments, to The Dunham Company, Berea, Ohio. Wheeled vehicle. 1,921,597; Aug. 8.
Wolseley Motors (1927) Limited. (See Towler, Clifford O., assignor.)

Wood, Edward C., Highland Park, assignor to North American Car Corporation, Chicago, Ill. Temperature control apparatus. 1,921,178; Aug. 8.
Wood, Fordham F., Sayre, Pa. One-unit ventilating system. 1,921,900; Aug. 8.
Wood, Walter A. (See Bull, A. A., and Wood.)
Woodbury, John B. (See Soule, G. C., and Woodbury.)
Woodings, Robert T., Oakmont, assignor to Woodings-Verona Tool Works, Verona, Pa. Rail anchor. 1,921,716; Aug. 8.
Woodings-Verona Tool Works. (See Woodings, Robert T., assignor.)
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Woodward, Marion H., East Orange, assignor to International Communications Laboratories, Inc., Newark, N. J. Cable code signaling system. 1,921,796; Aug. 8.
Wulfing, Johann A., the Firm. (See Sturm, Ernst, assignor.)
Yeaton, George S., Dorchester, and L. Blauer, Arlington Heights, assignors to American Rubber Company, Cambridge, Mass. Waterproof clothing. 1,921,646; Aug. 8.
Yoerger, P. F., Sign Company. (See Johnson, Claude U., assignor.)
Young, Fred M., Racine, Wis. Radiator. 1,921,278; Aug. 8.
Young, Hugh E., et al. (See Haug, Eugene H., assignor.)
Young, James H., Bronx, assignor to T. C. Wilson, Incorporated, New York, N. Y. Tube cleaner. 1,921,019; Aug. 8.
Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Packaging of gas containing objects. 1,921,015; Aug. 8.
Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container closure. 1,921,016; Aug. 8.
Zeiss, Firm Carl. (See Bauersfeld, W., and von Gruber, assignors.)
Zeiss, Firm Carl. (See Fertsch, F., and Hartinger, assignors.)
Zeiss, Firm Carl. (See Mechau, Robert, assignor.)
Zellmann, Rudolf, assignor to Chemische Fabrik von Heyden A. G., Radebeul near Dresden, Germany. Mass resembling ivory and making the same. 1,922,007; Aug. 8.
Zervas, Paul, Cologne-Mulheim, and H. Clingenstein, Cologne-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Asodyestuff. 1,921,338; Aug. 8.
Zimmer Manufacturing Company. (See Ettinger, Joe J., assignor.)
Zipprian, Hans. (See Heinrich, R., and Zipprian.)
Ziska, Adam, Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Offsetting press. 1,921,210; Aug. 8.
Zitscher, Arthur. (See Laska, L., and Zitscher.)
Zitscher, Arthur. (See Laska, L., Zitscher, and Koch.)
Zoller, Fred M. (See St. Maur, John B., assignor.)
Zschimmer, Bodo, and F. Pohl, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Color lakes. 1,921,857; Aug. 8.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 8TH DAY OF AUGUST, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrasive feeding mechanism for stone cutting machines. M. H. Owens and E. A. Burr. 1,921,697; Aug. 8.
Abrasives and holders, Making combined. M. C. Hutto. 1,920,986; Aug. 8.
Access panel latch. C. Traut. 1,921,051; Aug. 8.
Accumulators, Charging. W. Van B. Roberts. 1,921,841; Aug. 8.
Acid: *See*—
Benzene stibonic acid.
Acid concentration, Nitric. I. Hechenbleikner. 1,921,255; Aug. 8.
Acid halides, Making. L. B. Mills. 1,921,767; Aug. 8.
Acid, Making dichloroacetic. F. C. Amstutz. 1,921,717; Aug. 8.
Acid, Making hydrochloric. S. B. Heath and F. R. Minger. 1,921,888; Aug. 8.
Acid, Preparing hydrated citric. R. Pasternack, F. L. Read, and J. L. Davenport. 1,921,634; Aug. 8.
Acids, Production of aliphatic di-carboxylic. W. Schrauth. 1,921,101; Aug. 8.
Acoustic waves with several listeners for a suitable time, Apparatus for connecting a source of. M. Base. 1,921,961; Aug. 8.
Adapter for apparatus handling receptacle. M. W. Lane and S. A. Price. 1,921,414; Aug. 8.
Addressing machine. R. Elliott. 1,921,565; Aug. 8.
Advertising device. J. J. Slattery. 1,921,102; Aug. 8.
Advertising sign, Illuminated. C. U. Johnson. 1,921,570; Aug. 8.
Aeroplane. M. Quemin. 1,921,636; Aug. 8.
Air conditioning apparatus. L. W. Melcher. 1,921,257; Aug. 8.
Aircraft. G. Loening. 1,921,992; Aug. 8.
Aircraft for a predetermined course, Apparatus for adjusting. A. Clementi. 1,920,959; Aug. 8.
Aircraft having freely rotative sustaining wings. A. H. C. A. Rawson. 1,921,839; Aug. 8.
Aircraft structure. G. H. Pegram. 1,921,428; Aug. 8.
Airplane. H. A. Hicks. 1,921,294; Aug. 8.
Airplane. W. A. Roth. 1,921,043; Aug. 8.
Alarm and safety system. A. A. Bowman. 1,921,557; Aug. 8.
Alarm system. J. C. Field. 1,921,024; Aug. 8.
Alarm system, Combined fire and police. M. Garl. 1,921,615; Aug. 8.
Alcoholic fermentation process and product thereof. F. M. Hildebrandt. 1,921,991; Aug. 8.
Alcohols of high molecular weight, Production of. H. Beller and M. Luther. 1,921,881; Aug. 8.
Alloy. R. H. Leach. 1,921,416–18; Aug. 8.
Alloy. R. H. Leach. 1,921,760; Aug. 8.
Alloys, Electrodeposition of. R. M. Burns. 1,920,964; Aug. 8.
Aluminum alloy. E. L. Meissner. 1,921,089; Aug. 8.
Aluminum and alloys thereof. W. Bonsack. 1,920,963; Aug. 8.
Aluminum and alloys thereof. W. Bonsack. 1,921,998; Aug. 8.
Aluminum-silicon alloy. L. W. Kempf. 1,921,195; Aug. 8.
Aluminum silicosulphide, Production of. O. Schober and A. Schnitzspahn. 1,921,705; Aug. 8.
Amino alpha-phenoxy naphthalene. E. F. Grether. 1,921,120; Aug. 8.
Anchor, Bolt. J. J. Rawlings. 1,921,981; Aug. 8.
Anchor, Rail. R. T. Woodings. 1,921,716; Aug. 8.
Annealing. L. L. Lewis. 1,921,924; Aug. 8.
Announcing apparatus. J. L. Franklin. 1,921,742; Aug. 8.
Antiskid device. J. B. Keaney. 1,921,192; Aug. 8.
Apparatus for electrolysis of fused bath. L. E. Ward. 1,921,876; Aug. 8.
Arch for furnaces and tile therefor, Suspended. C. L. Todd. 1,921,107; Aug. 8.
Armature, Wire wound. V. G. Apple. 1,921,112; Aug. 8.
Aromatic amines, Manufacture of secondary. W. L. Semon and P. C. Jones. 1,921,587; Aug. 8.
Article working apparatus. C. W. Bell and W. K. Dillon. 1,921,405; Aug. 8.
Articles, Apparatus for classifying spherical. W. D. Kmentt. 1,921,621; Aug. 8.
Articles suspended from supporting devices through baths, Apparatus for passing. J. Oertli. 1,921,206; Aug. 8.
Aryl-alpha-naphthylamines, Manufacture of. J. Frei. 1,921,076; Aug. 8.
Automobile body construction. H. R. Crecelius. 1,921,284; Aug. 8.
Automobile heater. J. Holle. 1,921,466; Aug. 8.
Automobile ventilator. E. L. Kraft. 1,921,976; Aug. 8.
Axle bearing. V. A. Bary. 1,921,839; Aug. 8.
Axle, Driving. M. B. Morgan. 1,921,769; Aug. 8.
Asodyestuff. P. Zervas and H. Clingestein. 1,921,338; Aug. 8.
Asodyestuff, Copper-containing. K. Wiedemann and H. Clingestein. 1,921,336–7; Aug. 8.
Asodyestuffs, Obtaining reserves under. R. Haller. 1,921,920; Aug. 8.
Asodyestuffs, Water insoluble. L. Laska, A. Zitscher, and W. Koch. 1,921,362; Aug. 8.
Baffle wall. J. J. Tompkins. 1,921,049; Aug. 8.
Bags, Apparatus for inflating and deflating gas main. L. Shuman. 1,922,003; Aug. 8.
Ball, Golf and other playing. T. H. Hart. 1,921,523; Aug. 8.
Ball grinding machine. G. F. Matteson. 1,921,686; Aug. 8.
Ball handle. C. P. Howard and P. Lofgren. 1,921,525; Aug. 8.
Ball marking apparatus, Golf. C. E. Broman and W. H. Nowak. 1,921,307; Aug. 8.
Ball, Tennis and the like playing. D. F. Twiss, A. E. T. Neale, and A. S. Carpenter. 1,921,108; Aug. 8.
Balls or the like, Device for cleaning golf. S. A. Cogsdill. 1,920,960; Aug. 8.
Band, Poultry leg. T. A. Gey. 1,921,077; Aug. 8.
Bandage fastener. F. S. Dickinson. 1,921,999; Aug. 8.
Bath spray or like connecter. J. W. Patterson. 1,921,094; Aug. 8.
Battery terminal or connecter. H. A. Recen. 1,921,840; Aug. 8.
Battery terminal or connecter. J. H. Ryalls. 1,921,169; Aug. 8.
Bearing: *See*—
Axle bearing.
Bearing. T. N. Smith. 1,921,488; Aug. 8.
Bearing. S. W. Sparrow. 1,921,044; Aug. 8.
Bearing. A. G. F. Wallgren and C. G. Janson. 1,921,957–8; Aug. 8.
Bearing for rotary printing machines. J. R. Tomlin. 1,921,443; Aug. 8.
Beater, Egg. P. K. Bushnell. 1,921,842; Aug. 8.
Bed, Cooling. G. L. Fisk. 1,921,353; Aug. 8.
Bell swinging device. P. Muller. 1,921,090; Aug. 8.
Belt for garments and the like articles. L. Lubin. 1,921,271; Aug. 8.
Benzanthrone derivatives, Production of. I. B. Anderson, R. F. Thomson, and J. Thomas. 1,921,496; Aug. 8.
Benzene stibonic acid, Acylamino. K. Streitwolf, A. Fehrle, W. Hermann, and P. Fritzsche. 1,921,330; Aug. 8.
Bin closure. J. H. Adams. 1,921,062; Aug. 8.
Bismuth compound of campho-carbonic acid, Basic. G. W. Raiziss and L. R. W. Clemence. 1,921,688; Aug. 8.
Bit: *See*—
Roller bit.
Bit. E. A. Reed. 1,921,700; Aug. 8.
Bit. E. A. Reed. 1,921,702; Aug. 8.
Block: *See*—
Insulating block. Test block.
Blocks in a book-binding machine, Mechanism for transporting section-spacing. O. Müller. 1,921,201; Aug. 8.
Blocks, Making insulating. W. L. Hodges. 1,921,524; Aug. 8.
Blowpipe. L. Campbell, jr. 1,920,965; Aug. 8.
Blower unit, Motor driven. J. M. Cantwell. 1,921,153; Aug. 8.
Bluing composition and process. R. S. Phair. 1,921,685; Aug. 8.
Board: *See*—
Spring board.
Body for trucks and the like, Dump. H. R. Hanson. 1,921,291; Aug. 8.
Boiler: *See*—
Water tube boiler.
Bolster bearing device. T. H. Symington. 1,921,894; Aug. 8.
Bolts, screws, and the like, Manufacture of. L. S. Burbank. 1,921,654; Aug. 8.
Book end. R. D. Barrett. Des. 90,432; Aug. 8.
Bookmarker and filing card. P. L. Bush and W. R. King. 1,921,213; Aug. 8.
Booth, Portable refreshment. E. M. Gerould. 1,921,251; Aug. 8.
Boots and shoes, Manufacture of. H. Warren. 1,921,058; Aug. 8.
Bottle. L. Borokoff. Des. 90,433; Aug. 8.
Bottle. S. de Vaulchier. Des. 90,464; Aug. 8.
Bottle cleaning device. J. A. Kopnicky. 1,921,680; Aug. 8.
Bottle filling machine. A. R. Reynolds. 1,921,244; Aug. 8.
Bowling alley, Portable. A. H. Dunlap. 1,921,784; Aug. 8.
Box: *See*—
Direct connection box. Journal box.
Folding box. Locked box.

Brace for articles of furniture. T. H. Wittliff. 1,921,143; Aug. 8.
Bracket for automobile frames, Steering-post. H. Miller. 1,921,229; Aug. 8.
Braiding machine. C. Tober. 1,921,174; Aug. 8.
Brake: *See*—
Trailer brake.
Brake. R. J. Farkas. 1,921,287; Aug. 8.
Brake. E. V. Taylor. 1,921,593; Aug. 8.
Brake and lock, Rope. N. Lucchesi. 1,921,627; Aug. 8.
Brake for automobiles, Electric. H. Johnson and L. O. Anne. Re18,912; Aug. 8.
Brake mechanism. R. G. Aurien. 1,921,599; Aug. 8.
Brake rod support. H. Glascock. 1,921,028; Aug. 8.
Brake shoe. R. B. Pogue. 1,921,837–8; Aug. 8.
Brake shoe manufacture. R. B. Pogue. 1,921,836; Aug. 8.
Bridle ring. R. A. Armie. 1,921,797; Aug. 8.
Buckle. S. Rosenthal. Des. 90,453; Aug. 8.
Building slabs, Producing. R. Hedrich. 1,920,982; Aug. 8.
Bumper, Knuckle-jointed safety motor-vehicle. C. F. Boyer. 1,921,653; Aug. 8.
Buoy, Mooring. P. W. Blake. 1,921,500; Aug. 8.
Burglar trap. F. E. Eckerson. 1,921,967; Aug 8.
Burner: *See*—
Fuel burner. Oil burner.
Burner control apparatus. J. P. Kriechbaum. 1,921,196; Aug. 8.
Button. W. F. Haas. Des. 90,440; Aug. 8.
Button. J. Shadlowsky. Des. 90,459; Aug. 8.
Cabinet, Filing. C. A. Finley. 1,921,887; Aug 8.
Cabinet-safe. W. C. Miller. 1,921,690; Aug. 8.
Cabinet, Smokers'. S. Bohnert. 1,921,652; Aug. 8.
Cable clip. F. G. Ridgers. 1,921,777; Aug. 8.
Cable code signaling system. M. H. Woodward. 1,921,796; Aug. 8.
Cable, Multicore high tension C. Cremer. 1,921,606; Aug. 8.
Cable reel for electric appliances. D. L. and T. B. Farmer. 1,921,288; Aug. 8.
Cable signaling system, Submarine. E. T. Burton. 1,921,022; Aug. 8.
Caisson, Method and apparatus for constructing a concrete. T. McCauley, jr. 1,921,236; Aug. 8.
Calculating machine with two counting mechanisms. A. Kottmann. 1,921,529; Aug. 8.
Calendar. J. Brenner. 1,921,451; Aug. 8.
Calendar. J. L. Gibbs. 1,921,815; Aug. 8.
Camera shutter. W. A. Riddell. 1,921,541; Aug. 8.
Cameras, Focusing device for photographic. H. F. Tönnies. 1,921,898; Aug. 8.
Can. J. P. Loeber. 1,921,682; Aug. 8.
Can and making same, Milk. J. P. Walker. 1,921,247; Aug. 8.
Can feeding system. A. H. Nelson. 1,921,577; Aug. 8.
Car, Dumping. J. Carlsson. 1,921,558; Aug. 8.
Car, Flaw detector. G. L. Jones. 1,922,019; Aug. 8.
Car, Railway. E. R. Swanson. 1,921,106; Aug. 8.
Carbon, Manufacturing activated. F. E. Kern. 1,921,297; Aug. 8.
Carburetor. C. J. Brade. 1,921,736; Aug. 8.
Carburetor. E. A. Winfield. 1,921,142; Aug. 8.
Carpets and the like, Device for the manufacturing of knotted. J. Goretzky. 1,921,355; Aug. 8.
Carriage, Fruit picker's. C. E. Miller. 1,921,631; Aug. 8.
Carton, Cigarette. J. J. Reinhold. Des. 90,451; Aug. 8.
Carton, Shipping. H. C. Bohnke. 1,921,724; Aug. 8.
Cartridge, Self-retaining. D. Hodge. 1,921,229; Aug. 8.
Case and lighter, Combination cigarette. F. A. Whittaker. 1,921,854–5; Aug. 8.
Case and lighter, Combined cigarette. I. Florman. 1,921,354; Aug. 8.
Cashew nut shell liquid with paraformaldehyde, Product and process of reacting. M. T. Harvey. 1,921,293; Aug. 8.
Casings, Manufacture of pneumatic tire. G. L. Mather. 1,921,473–4; Aug. 8.
Cathode for electron discharge devices and making the same. L. H. Bedford. 1,921,066; Aug. 8.
Cell, Photoelectric. J. H. Rouse. 1,921,483; Aug. 8.
Cellophane and fancy paper products and the like. E. M. Hacker. 1,921,819; Aug. 8.
Cellulose acetate, Plasticising and dispersing. W. B. Pratt and R. T. Halstead. 1,921,582; Aug. 8.
Cellulose esters, Treatment of. S. E. Sheppard. 1,921,949; Aug. 8.
Cement, Optical. S. E. Sheppard. 1,921,948; Aug. 8.
Centrifugal machine. J. L. Rushton. 1,921,842; Aug. 8.
Centrifugal separator. H. W. Fawcett. 1,921,181; Aug. 8.
Chair: *See*—
Garden chair.
Chair. W. M. Lewallen. 1,921,932; Aug. 8.
Chair back or rest. W. J. and A. L. Johnson. Re18,913; Aug. 8.
Charging means for centrifugal extractors, Automatic. N. R. Andrews and J. J. Neuman. 1,921,446; Aug. 8.
Check and gate valve, Combination. J. F. Blake. 1,921,280; Aug. 8.
Check testing mechanism. A. H. Du Grenier. 1,921,611; Aug. 8.
Chemical pulping process. G. A. Richter. 1,921,539; Aug. 8.
Chemical reactions in liquid media, Conducting. M. E. Putnam. 1,921,873; Aug. 8.
Chuck. E. A. Normand. 1,921,694–5; Aug. 8.
Cigarette extinguisher. J. C. Glomb. 1,921,874; Aug. 8.
Cigarette making machinery. W. E. Molins and C. Best. 1,921,317; Aug. 8.
Cigarettes, Device for forming. S. L. Burri. 1,920,955; Aug. 8.
Circle for radio direction finders, Graduated. A. Leib. 1,921,284; Aug. 8.
Circuit controller, Combined automatic and manual. L. P. Hutt. 1,921,126; Aug. 8.
Circuit, Electric valve. A. Schmidt, jr. 1,921,704; Aug. 8.
Circuit for amplifiers, Supply. C. W. Hansell. 1,921,858; Aug. 8.
Circuit for short-wave generators, Oscillation. R. Baranowsky. 1,921,448; Aug. 8.
Circuit for telegraph printers, Motor control. E. W. Hewitt and S. W. Rothermel. 1,921,990; Aug. 8.
Circuit, Non-linear. C. G. Suits. 1,921,786; Aug. 8.
Circuit, Polar relay. C. N. Nebel. 1,921,425; Aug. 8.
Clamp: *See*—
Guy-line clamp. Rope clamp.
Clamp. E. F. Batterman and J. Verderber. 1,921,721; Aug. 8.
Clasp. S. Rosenthal. Des. 90,454; Aug. 8.
Cleaner: *See*—
Comb cleaner. Tube cleaner.
House cleaner. Vacuum cleaner.
Suction cleaner.
Cleaner for pipes, sewers, culverts, and the like. C. I. Reed. 1,921,098; Aug. 8.
Clip: *See*—
Cable clip.
Clock. P. Vannini. 1,921,595; Aug. 8.
Clock, Synchronous motor. W. A. Spear. 1,921,847; Aug. 8.
Closures, Making. B. Cohn. 1,921,808; Aug. 8.
Clothing, Waterproof. G. S. Yeaton and L. Blauer. 1,921,646; Aug. 8.
Clutch: *See*—
Feed clutch.
Clutch. W. F. Hughes. 1,921,315; Aug. 8.
Clutch. C. H. Sampson. 1,921,264; Aug. 8.
Clutch. H. T. Thomas. 1,921,048; Aug. 8.
Coal, Device for illustrating preparation of. H. Morgan. 1,921,692; Aug. 8.
Cock, Gas. O. J. Leins. 1,921,761; Aug. 8.
Cock, Gas. E. W. Roberts. 1,921,779; Aug. 8.
Coiled spring, Hook-ended. H. Vanderploeg. 1,921,209; Aug. 8.
Coils possessing accurate inductance, Making. W. F. Ewald. 1,921,869; Aug. 8.
Coin counting machine. E. Donnellan. 1,921,155; Aug. 8.
Coins, Method and apparatus for separating. C. E. Gray and G. D. Turnbow. 1,921,669; Aug. 8.
Coins or other tokens for genuineness, Testing. F. W. Hoban. 1,921,031; Aug. 8.
Collar, Soft. G. B. Galbraith. 1,921,872; Aug. 8.
Color lakes. B. Zschimmer and F. Pohl. 1,921,857; Aug. 8.
Color photographic system. E. D. Goodwin. 1,921,918; Aug. 8.
Color photography. C. Nordmann. 1,921,258; Aug. 8.
Comb cleaner. R. M. Ozabal. 1,921,002; Aug. 8.
Comb for the hair. M. Shaw. 1,921,328; Aug. 8.
Combing machine. J. W. Nasmith. 1,921,203; Aug. 8.
Combination sash lock. C. J. Hohman. 1,920,983; Aug. 8.
Compartment for automobiles, Sleeping. M. Richardson. 1,921,325; Aug. 8.
Composite web and making the same. H. A. Chase and H. R. Titus. 1,921,504; Aug. 8.
Composition and making and using the same. M. T. Harvey. 1,921,292; Aug. 8.
Composition for treating water used in air conditioning apparatus and the like. M. Schlissel. 1,921,137; Aug. 8.
Concrete block molding machine. K. T. Romie. 1,921,003; Aug. 8.
Concrete mixer. F. E. Mascetti and A. D. Bruno. 1,921,685; Aug. 8.
Concrete placing equipment. M. C. De Wolfe. 1,921,351; Aug. 8.
Concrete reenforcement, Securing and supporting device for. D. E. Priest. 1,921,538; Aug 8.
Condenser: *See*—
Electric condenser.
Condenser. J. R. Replogle. 1,921,243; Aug. 8.
Conditioner and agitator. A. C. Daman. 1,921,220; Aug. 8.
Cone making machine. A. A. Holland. 1,921,160; Aug. 8.
Connecter: *See*—
Bath spray or like connecto Pipe connecter.
Electrical connecter.
Connecting ring. E. A. Leary. 1,921,978; Aug. 8.
Connection, Brake-operating. W. J. Andres. 1,921,146; Aug. 8.
Connection, Fluid pressure. C. E. Maynard. 1,921,533; Aug. 8.
Connection for brake mechanisms, Lost-motion. G. A. Gemmer. 1,921,156; Aug. 8.
Container. W. W. Bissell. 1,921,962; Aug. 8.

Container and ejector, Syringe. N. O. La Marche. 1,921,034; Aug. 8.
Container closure. J. M. Young. 1,921,016; Aug. 8.
Control for heat treating apparatus. H. F. Vickers. 1,921,956; Aug. 8.
Control for motion picture projectors, Electric. E. S. Carpenter. 1,920,968; Aug. 8.
Control means for windshields. A. T. Potter. 1,921,262; Aug. 8.
Control mechanism for power transmission gears. R. Erban. 1,921,459; Aug. 8.
Control of acceleration and braking of vehicles driven by internal combustion engines. A. C. E. Neville. 1,921,693; Aug. 8.
Control system, Duplex. H. L. Eastman. 1,921,385; Aug. 8.
Control system for waste water, Automatic. L. H. Kamper. 1,921,232; Aug. 8.
Conveyer. W. J. Gibbs. 1,920,931; Aug. 8.
Conveyer, Belt. T. G. Nyborg. 1,921,205; Aug. 8.
Conveyer device. C. G. O'Hara. 1,921,771; Aug. 8.
Conveyer for continuous heating furnaces, Pawl. R. E. Talley. 1,921,592; Aug. 8.
Conveyer, Glassware. H. W. Ingle. 1,921,390; Aug. 8.
Conveyer roll. G. N. Van Derhoef. 1,921,445; Aug. 8.
Conveyer system. J. B. Webb and D. A. Blair 1,921,109; Aug. 8.
Cooking and cooling apparatus A. R. Thompson. 1,921,442; Aug. 8.
Cooking apparatus. W. Jourdan. 1,921,231; Aug. 8.
Cooler: *See*—
Liquid cooler.
Cooling means for motion picture projectors. E. S. Carpenter. 1,921,214; Aug. 8.
Copper, Purification of. G. S. Evans. 1,921,180; Aug. 8.
Cord take-up structure. B. J. Tamarin. 1,921,438; Aug. 8.
Cork remover. L. Eger. 1,921,811; Aug. 8.
Corner construction. G. E. Bomberger. 1,921,150; Aug. 8.
Couch, Sanitary. G. Rapprich. 1,921,134; Aug. 8.
Coupler on pilot beams G. F. Couch. 1,921,882; Aug. 8.
Coupler yoke. H. L. Spence. 1,921,011; Aug. 8.
Coupling: *See*—
Middle ring coupling. Shaft coupling.
Pipe coupling.
Coupling device for road forms. H. E. Holford. 1,921,881; Aug. 8.
Coupling for machine elements, Universal. P. Fenaille. 1,921,737; Aug. 8.
Coupling system. L. A. Hyland. 1,921,526; Aug. 8.
Cover operator and holder for garbage cans and the like. H. L. Scruton. 1,921,208; Aug. 8.
Cover supplying mechanism for multiple can-closing machines. A. L. Kronquest and M. M. Sedwick. 1,921,977; Aug 8.
Crane, Portable. A. J. Layhon. 1,920,989; Aug. 8.
Crank cases of internal combustion engines, Ventilating the. C. O. Towler. 1,921,175; Aug. 8.
Cryptographic printing apparatus. F. Schimmel and E. A. Bidault. 1,921,327; Aug. 8.
Cultivator, Traveling. J. S. Craigmyle. 1,921,283; Aug. 8.
Cup: *See*—
Pouring cup.
Current generators, Paralleling system for alternating. R. Keller. 1,921,677; Aug. 8.
Current-interrupter in B battery eliminators, Protecting. W. W. Garstang. 1,921,461; Aug. 8.
Curtain or the like. M. Sadinoff. Des. 90,456; Aug. 8.
Cushion and its manufacture. A. S. Mitchell. 1,921,691; Aug. 8.
Cushion cleat wheel. R. T. Osman and E. H. Lichtenberg. 1,921,537; Aug. 8.
Cushion, Stair. M. Sachs. 1,921,781; Aug. 8.
Cushion support. B. Christmas. 1,921,561; Aug. 8.
Cut-out, Electric. E. O. Schweitzer. 1,921,006; Aug. 8.
Cut-out, Electric oil. E. O. Schweitzer. 1,921,005; Aug. 8.
Cutter: *See*—
Drill cutter.
Cutter bar operating means. J. F. Wilcoxson. 1,921,493; Aug. 8.
Cutting machine. F. J. Clark. 1,921,249; Aug. 8.
Cutting table. E. J. Stein. 1,921,489; Aug. 8.
Cyanide and controlling the porosity thereof. V. Migrdichian. 1,921,299; Aug. 8.
Cylinders, Forming. E. H. Hussey. 1,921,824; Aug. 8.
Decelerometer. W. B. McGorum. 1,921,833; Aug. 8.
Deinking apparatus. G. Hammond. 1,921,080; Aug. 8.
Delivery system. P. S. Eudacott. 1,921,968; Aug. 8.
Dental bridge, H. Freedman. 1,921,613; Aug. 8.
Derivatives of anthraquinone, Manufacture of basic. G. H. Ellis and H. C. Olpin. 1,921,458; Aug. 8.
Derrick. C. L. Henry. Des. 90,441–2; Aug. 8.
Detector for boilers, Low water. W. O. Lum. 1,921,684; Aug. 8.
Detergent composition of matter. M. M. Kahn. 1,921,676; Aug. 8.
Device for feeding infants. G. J. McLean and R. Q. Edmonston. 1,921,535; Aug. 8.
Dichlorethylene, Producing. W. O. Herrmann and E. Baum. 1,921,879; Aug. 8.
Die: *See*—
Sheet metal die.
Die-casting method. T. C. Korsmo. 1,921,681; Aug. 8.
Die head. R. E. Hyde. 1,921,754; Aug. 8.

Differential pressure device. R. E. Hanson. 1,921,567; Aug. 8.
Digger for tractors, Underslung potato. E. W. Johnson. 1,921,190; Aug. 8.
Dipper, Power shovel. L. W. Van Buskirk. 1,921,491; Aug. 8.
Dirigible light. C. Sklarek. 1,921,784–5; Aug. 8.
Discharge tube. P. Selenyi. 1,921,139; Aug. 8.
Dish. E. E. Cullen. 1,921,348; Aug. 8.
Disintegrating machine. M. W. Edman. 1,921,914; Aug. 8.
Dispensing machine. F. C. Du Grenier. 1,921,610; Aug. 8.
Display device. J. H. Benya. 1,921,113; Aug. 8.
Distillation process. V. Voorhees. 1,921,850; Aug. 8.
Dobbies, Shedding device for. H. Grossmann. 1,921,521; Aug. 8.
Domestic heater. H. A. Grine. 1,921,871; Aug. 8.
Door closer and check. F. C. Garrison. 1,921,314; Aug. 8.
Door construction, Car. K. J. Tobin and A. Wasberg. 1,921,644; Aug. 8.
Door fastener. M. Jensen. 1,921,189; Aug. 8.
Door mechanism, Rolling. H. G. Kelly. 1,921,193; Aug. 8.
Door mechanism, Yielding. H. F. Flowers. 1,921,917; Aug. 8.
Door operating mechanism. E. W. Larsen. 1,921,415; Aug. 8.
Door operating mechanism. M. W. Talen. 1,921,849; Aug. 8.
Door, Refrigerator car. J. F. O'Connor. 1,921,573; Aug. 8.
Doorstop. L. E. Hasselberger. 1,921,568; Aug. 8.
Dough rolling machine. D. W. Smith. 1,921,268; Aug. 8.
Draft control apparatus for furnaces. R. MacDougall. 1,921,763; Aug. 8.
Draft gear. D. F. Sproul. 1,921,045–46; Aug. 8.
Draft gear support. A. F. O'Connor. 1,921,696; Aug. 8.
Drapery or the like. M. Sadinoff. Des. 90,457; Aug. 8.
Drawer manifolding device, Cash. J. Q. Sherman and A. W. Metzner. 1,921,890; Aug. 8.
Drawing instrument and adjunctive parts thereof. J. C. Sommer. 1,921,892; Aug. 8.
Dress. J. L. Caston. Des. 90,434; Aug. 8.
Drier and polisher for wood turnings. S. R. Penney, jr. 1,921,321; Aug. 8.
Drill cutter. E. A. Reed. 1,921,701; Aug. 8.
Drilling apparatus. J. M. Calderwood. 1,921,503; Aug. 8.
Drinking cup. R. M. Schiller. Des. 90,458; Aug. 8.
Drive, Linter gin. F. E. Deems. 1,921,311; Aug. 8.
Drive release and brake for a spindle. H. C. Wellman and N. B. Green. 1,921,554; Aug. 8.
Drive, Tape. R. D. Wiley. 1,921,402; Aug. 8.
Drive, Variable speed. L. F. Koss, jr. 1,921,758; Aug. 8.
Driving mechanism. E. H. Haug. 1,921 749; Aug. 8.
Duct connection box. H. S. Walker. 1,921,057; Aug. 8.
Dust collector. E. J. Brady. 1,922,013; Aug. 8.
Dye printing plate and sensitized material therefor. J. E. Thornton. 1,921,050; Aug. 8.
Dyeing. B. F. Goldstein and A. Y. Livingstone. 1,921,078; Aug. 8.
Dyeing. C. E. Kaltenbach. 1,920,987; Aug. 8.
Dyes containing chromium, Manufacture of. E. A. Sack. 1,921,586; Aug. 8.
Dyestuff and fiber dyed therewith, Water insoluble azo. L. Laska and A. Zitscher. 1,921,361; Aug. 8.
Dyestuff, Triarylmethane. O. Wahl, W. Müller, A. Kohn, and E. Teupel. 1,921,334; Aug. 8.
Dyestuffs and preparing them, Mixtures of new isomeric. G. Kranzlein, H. Greune, M. Corell, and H. Vollmann. 1,921,360; Aug. 8.
Ebullition initiator. C. J. Lauer and H. R. McPhail. 1,921 573; Aug. 8.
Edge trimming machine. A. R. Morrill. 1,921,165; Aug. 8.
Edges for flash welding tubes, Aligning. W. F. Heineman. 1,921,227; Aug. 8.
Egg timer. R. Matthews. 1,921,036; Aug. 8.
Ejecting mechanism, Automatic. J. B. St. Maur. 1,921,173; Aug. 8.
Elastic webbing and making same. G. S. Van Voorhis. 1,922,020; Aug. 8.
Electric attachment plug. J. G. Peterson. 1,921,096; Aug. 8.
Electric condenser. D. M. MacDonald. 1,921,086; Aug. 8.
Electrical connecter. R. T. Hosking. 1,921,823; Aug. 8.
Electric control system. C. G. Suits. 1,921,788; Aug. 8.
Electric fittings, Accessories for. L. Barnett. 1,921,447; Aug. 8.
Electric fixture. L. M. Rubin. Des. 90,455; Aug. 8.
Electric machine, Dynamo. H. L. Smith, F. J. Rathbun, and A. M. Forman. 1,921,845; Aug. 8.
Electric machine stator with noncorrosive lining, Dynamo. V. G. Apple. 1,921,111; Aug. 8.
Electric resistance device. B. O. Templeton. 1,921,441; Aug. 8.
Electric switch. M. J. Lewis. 1,921,419; Aug. 8.
Electric switch. G. J. Meuer. 1,921,766; Aug. 8.
Electrical apparatus. J. W. Allen. 1,921,719; Aug. 8.
Electrical compensating arrangement. F. J. Champlin. 1,921,728; Aug. 8.
Electrical compensating arrangement. H. R. West. 1,921,713; Aug. 8.
Electrical radiation apparatus. U. Schönfeld. 1,921,543; Aug. 8.

Electrical transmission system. E. F. W. Alexanderson. 1,921,718; Aug. 8.
Electrical transmission system. L. F. Blume. 1,921,723; Aug. 8.
Electrical wiring appliance. F. J. Kennedy. 1,921,162; Aug. 8.
Electrolytic apparatus. L. E. Ward. 1,921,377; Aug. 8.
Electrolytic process for simultaneously bleaching and removing metallic impurities from cellulose esters. C. S. Webber and C. J. Staud. 1,921,492; Aug. 8.
Electron emitter and making same. J. A. Becker. 1,921,065; Aug. 8.
Elevator control system. L. J. Kinnard. 1,921,679; Aug. 8.
Engine: *See*—
Internal combustion engine. Steam engine.
Engine. C. J. Smith. 1,921,266; Aug. 8.
Engine and operating the same, Powdered fuel. R. Pawlikowski. 1,921,132; Aug. 8.
Engines, Exhaust turbo blower for internal combustion. A. Buchi. 1,921,907; Aug. 8.
Envelope sealing machine. E. E. Gray. 1,921,110; Aug. 8.
Ethylene dibromide, Purifying. S. B. Heath and M. O. Keller. 1,921,157; Aug. 8.
Exhaust purifier. S. Schneider. 1,921,783; Aug. 8.
Exhausting mechanism. R. W. Van Valsah. 1,921,399; Aug. 8.
Extensible handle. F. Purdon. 1,921,323; Aug. 8.
Fan. C. W. Colby. 1,921,218; Aug. 8.
Fan. D. G. Roos. 1,921,042; Aug. 8.
Fan, Line-flow. E. L. Anderson. 1,920,952; Aug. 8.
Fastener: *See*—
Bandage fastener. Paper fastener.
Door fastener.
Fastening inserting machine. F. N. La Chapelle. 1,920,990; Aug. 8.
Fastening inserting machine. E. R. Pope. 1,921,097; Aug. 8.
Faucet, Beverage. C. J. Muend. Des. 90,448-9; Aug. 8.
Faucet, Water. S. Kernsten. 1,921,827; Aug. 8.
Feed clutch. T. C. Mladinich. 1,921,994; Aug. 8.
Feed mechanism for machine-guns, Reversible. F. K. Howard. 1,920,984; Aug. 8.
Feeder: *See*—
Liquid feeder.
Feeder for portable tools. E. Seger. 1,921,485; Aug. 8.
Feeding device. T. G. McGirr. 1,921,764; Aug. 8.
Feeding device for bar dising machines, Automatic. L. N. Kersey. 1,921,527; Aug. 8.
Feeding mechanism for machine tools. W. F. Fraser. 1,920,979; Aug. 8.
Feeds, Sterilisation of radon. L. D. Kipe. 1,921,084; Aug. 8.
Fertiliser attachment for planters. G. M. Kriegbaum, F. F. Brooks, and C. C. Haas. 1,921,885; Aug. 8.
Fertiliser discharging unit. G. M. Kriegbaum and C. C. Haas. 1,921,886; Aug. 8.
Fibers, Treating. G. Le Franc. 1,921,363; Aug. 8.
Filaments, After treatment of. C. Herrmann. 1,921,123; Aug. 8.
Film developing apparatus, Photographic. A. W. Stevens and W. H. Richards. 1,921,012; Aug. 8.
Film editing machine. J. J. Kuhn and R. V. Terry. 1,921,469; Aug. 8.
Film magazine closure. L. S. Frappier and E. Boecking. 1,921,870; Aug. 8.
Film processing machine. Continuous. J. C abtree. 1,921,404; Aug. 8.
Film scrap with an alcoholic alkali solution, Reclaiming. W. J. Weyerts and K. C. D. Hickman. 1,921,960; Aug. 8.
Film spool for roll-film cameras. C. Z. Case. 1,921,560; Aug. 8.
Film spool for roll-holding cameras. C. Z. Case. 1,921,559; Aug. 8.
Filter: *See*—
Wave filter.
Filter. A. M. Harkness. 1,921,296; Aug. 8.
Filter material and producing the same. E. D. Crammond and W. A. Hughes. 1,921,309; Aug. 8.
Finish for ferrous articles. A. W. Machlet. 1,921,128; Aug. 8.
Fire extinguisher. W. B. Bronander. 1,921,452; Aug. 8.
Fire unit for furnaces. F. C. Greene. 1,921,253; Aug. 8.
Fish and fillets for storage, Method of and apparatus for preparing. M. P. Vucassovich. 1,921,055; Aug. 8.
Fish lure. J. Catarau. 1,921,657; Aug. 8.
Fish, Method of and apparatus for skinning. H. F. Taylor. 1,921,440; Aug. 8.
Fish scaler and knife, Combination. A. A. Benedict. 1,920,954; Aug. 8.
Fishing pole. J. Carlson. 1,920,966; Aug. 8.
Fitting apparatus, Nose ring. R. Hauptner. 1,921,618; Aug. 8.
Fitting, Duct. H. S. Walker. 1,921,056; Aug. 8.
Flashlight. G. A. Smith. 1,921,171; Aug. 8.
Flask. I. R. Custer. 1,921,350; Aug. 8.
Flask, Dental. O. J. Johnson. 1,921,925; Aug. 8.
Flatiron stand. W. F. Payne. 1,921,038; Aug. 8.
Fleece deburring machine, Hand mechanical. A. F. Barker. 1,921,064; Aug. 8.
Flexible coupling. C. H. Clark. 1,921,910; Aug. 8.
Floor finishing machine. A. N. Emmons. 1,921,513; Aug. 8.
Fluid, Cleaning. C. L. Voreas. 1,921,054; Aug. 8.
Fluid motor. I. L. Chambers. 1,021,023; Aug. 8.
Fluid operated tool. J. R. Hoffman. 1,921,755; Aug. 8.
Fluid power controlling mechanism. E. G. Staude. 1,921,590; Aug. 8.
Fluids, Method of and apparatus for controlling the flow of. J. C. Albright. 1,921,145; Aug. 8.
Folding box. I. N. Rudowitz. 1,921,946; Aug. 8.
Follow-up device for gyro compasses. B. A. Wittkuhns. 1,921,983; Aug. 8.
Food dressing and the like. W. A. Rooker and V. E. Speas. 1,921,585; Aug. 8.
Food fat and oil coloring material. A. F. Files. 1,921,738; Aug. 8.
Forming apparatus. R. A. Shipley. 1,921,544; Aug. 8.
Freight, Handling and transporting. K. E. Canfield. 1,921,605; Aug. 8.
Froth breaking. R. C. M. P. F. Boutet. 1,921,725; Aug. 8.
Fruit halving and quartering machine. H. Nelson. 1,921,633; Aug. 8.
Fuel burner. J. M. Weil and L. Wilson. 1,921,059; Aug. 8.
Fuel feed control for oil burners. L. F. Spear. 1,921,105; Aug. 8.
Fuel injector. G. A. Gillen. 1,921,873; Aug. 8.
Fuel mixing apparatus. P. Taurisano. 1,921,895; Aug. 8.
Furnace: *See*—
Heating furnace.
Furnace for liquid fuel burners. R. W. Beckett. 1,921,798; Aug. 8.
Furnace wall. J. A. Schruefer. 1,921,843; Aug. 8.
Furnaces, Operation of. H. A. Brassert. 1,921,212; Aug. 8.
Fuse, Plug. F. C. La Mar. 1,921,892; Aug. 8.
Galley. G. M. Hume. 1,921,410; Aug. 8.
Game. L. C. Henderson. 1,921,186; Aug. 8.
Gaming device. J. E. Tolman and F. A. Subject. Des. 90,462; Aug. 8.
Garden chair. A. Euring. 1,921,460; Aug. 8.
Garden implement. T. Jensen. 1,921,973; Aug. 8.
Garment cuff, Adjustable. W. Hymes. 1,921,467; Aug. 8.
Gas, Appa atus for and method of producing compressed. I. H. Levin. 1,921,531; Aug. 8.
Gas containing objects, Packaging of. J. M. Young. 1,921,015; Aug. 8.
Gas control system. C. S. Johann. 1,921,411; Aug. 8.
Gas equalizer for internal combustion engines. W. N. Cook. 1,921,282; Aug. 8.
Gas generator. H. C. Heaton. 1,921,465; Aug. 8.
Gas, Producing water. P. Wangemann. 1,921,711; Aug. 8.
Gaseous discharge device. A. L. Samuel. 1,921,004; Aug. 8.
Gaseous mixtures containing hydrogen and nitrogen from methane, Production of. G. Wietzel and G. Schiller. 1,921,856; Aug. 8.
Gasolene pump meter, Prepayment. M. L. Pike. 1,921,775; Aug. 8.
Gasometer, Waterless. G. V. Hanffstengel. 1,921,617; Aug. 8.
Gauge: *See*—
Pressure gauge.
Gauge for cold headers and the like. W. L. Clouse. 1,921,345; Aug. 8.
Gauge with diaphragm seal, Liquid level. C. A. De Giers. 1,920,971; Aug. 8.
Gazing globe. A. G. Thomas. 1,921,896; Aug. 8.
Gear: *See*—
Draft gear. Supporting gear.
Gear for plunger pumps, Crank. W. B. Ferguson. 1,921,182; Aug. 8.
Generator: *See*—
Gas generator. Oscillation generator.
Hot water generator.
Generator cooling device. J. B. Hiday. 1,921,030; Aug. 8.
Geometrical instrument. L. H. Dawson. 1,921,508; Aug. 8.
Glass, Apparatus for washing sheet. L. J. Pierce. 1,921,479; Aug. 8.
Glass, Contact. F. Fertsch and H. Hartinger. 1,921,971-2; Aug. 8.
Glass, Producing laminated. F. Fraser and G. B. Watkins. 1,921,612; Aug. 8.
Glassware transfer device. H. W. Ingle. 1,921,389; Aug. 8.
Golf club shaft. H. C. Lagerblade. 1,921,930; Aug. 8.
Governor, Compressor. C. C. Farmer. 1,921,609; Aug. 8.
Grease rack. S. D. Palmer. 1,921,320; Aug 8
Grinding machine. L. B. Stogner. 1,921,333; Aug. 8.
Grinding machine. E. J. Whalen 1,921,714; Aug 8.
Ground connection, Protective. K. H. Krambeer. 1,921,830; Aug. 8.
Guide, Window glass. E. W. M. Bailey. 1,921,601; Aug. 8.
Guiding device for sheet working printing presses. N. Becker. 1,921,340; Aug. 8.
Guiding implements, particularly the burner of cutting burner or welding machines, Device for. A. Schmidt. 1,921,887; Aug. 8.
Gun, Spray. J. C. Hull. 1,921,928; Aug. 8.
Guy-line clamp. J. M. Chevalier. 1,920,970; Aug. 8.
Hair curling and waving device. T. McArdle. 1,921,894; Aug. 8.
Hair waver. E. E. Baldwin. 1,921,861; Aug. 8.
Hair, Waving. H. Bonat. 1,921,802; Aug. 8.

Hall tree, Combination. W. R. Johnson. Des. 90,443; Aug. 8.
Hammer, Portable electric. R. H. Maxwell and F. J. Weidling. 1,921,628; Aug. 8.
Handle: *See*—
Ball handle. Extensible handle.
Handle structure, Vacuum cleaner. B. J. Tamarin. 1,921,439; Aug. 8.
Hat stretching machine. G. S. Boesch. 1,921,450; Aug. 8.
Head rod holder. W. S. Feeny. 1,921,813; Aug. 8.
Header structure and fastening arrangement therefor. N. T. McKee. 1,921,629; Aug. 8.
Heat exchange apparatus. C. T. Carlan. 1,921,806; Aug. 8.
Heater: *See*—
Automobile heater. Tank heater.
Domestic heater. Water heater.
Heater. H. C. Caldwell. 1,921,152; Aug. 8.
Heater. J. H. Long. 1,921,582; Aug. 8.
Heater and circulator for hair drying systems, Air. E. J. C. Perkins. 1,921,940; Aug. 8.
Heater or the like, Electric water. J. Florman. Des. 90,438; Aug. 8.
Heating and domestic heating systems, Combined house E. R. Snavely. 1,921,708; Aug. 8.
Heating device, Gas or oil. T. K. Smith. 1,921,104; Aug. 8.
Heating element. F. X. Govers. 1,921,988; Aug. 8.
Heating furnace. A. L. Culbertson. 1,921,507; Aug. 8.
Heel-concaving machine. J. W. Staples and W. C. Brooks. 1,921,641; Aug. 8.
Helicopter. F. Bordoni. 1,921,805; Aug. 8.
High pressure pump, Eccentric driven. W. E. Goldsborough. 1,921,816; Aug. 8.
Highway guard. L. H. Miller. 1,921,129; Aug. 8.
Hinge construction. A. T. Potter. 1,921,261; Aug. 8.
Hinge for automobile seats. P. V. Korth. 1,921,622; Aug. 8.
Hitch mechanism. T. W. Paul. 1,921,581; Aug. 8.
Holder: *See*—
Head rod holder.
Holder device, Sand paper. A. C. Bawden. 1,921,211; Aug. 8.
Holder for ice cream cones. A. J. Legge. 1,920,995; Aug. 8.
Holder for outlet boxes, Marble ring. L. A. Sharp. 1,921,170; Aug. 8.
Hollow bodies by centrifugal casting, Preparing open and closed. W. Raym, K. Mertens, and A. Salzer. 1,921,699; Aug. 8.
Horseshoe. D. O. Snyder. 1,921,891; Aug. 8.
Hose reel. C. Nuhring. 1,921,938; Aug. 8.
Hosiery, Knitted. D. M. Garmer. 1,921,908; Aug. 8.
Hospital indicator. B. L. Bobrof. 1,921,149; Aug. 8.
Hot top. W. M. Charman. 1,921,729; Aug. 8.
Hot top. W. M. Charman. 1,921,732; Aug. 8.
Hot top. W. M. Charman and H. J. Darlington. 1,921,731; Aug. 8.
Hot water generator. F. S. Elrick. 1,921,735; Aug. 8.
House, Brooder. E. Ferguson. 1,921,852; Aug. 8.
House cleaner, Combination. H. Ranish. 1,921,637; Aug. 8.
Humidifying apparatus. C. W. Brabbée. 1,922,014; Aug. 8.
Hydraulic mechanism. H. F. Vickers. 1,921,955; Aug. 8.
Hydrocarbons, Production of valuable. M. Pier. 1,921,477; Aug. 8.
Hydrocarbons, Production of valuable liquid. M. Pier. 1,921,478; Aug. 8.
Hydroelectric installation. R. Blom. 1,921,905; Aug. 8.
Humidifier, Portable. R. E. Kruck and P. E. Hochstetter. Des. 90,444; Aug. 8.
Ice cream and preparing same. W. O. Herrmann and W. Haehnel. 1,921,124; Aug. 8.
Ice in plates, Apparatus for manufacturing. H. J. Spaan. 1,921,549; Aug. 8.
Image plate holding chamber for apparatus for measuring photograms. W. Bauersfeld and O. von Gruber. 1,921,647; Aug. 8.
Impressions, Apparatus for translating. R. E. Naumburg. 1,921,000; Aug. 8.
Incinerator, Electric. R. P. Sword. 1,921,790; Aug. 8.
Incinerator firing element. R. P. Sword. 1,921,047; Aug. 8.
Indicating device. G. B. Crapo. 1,921,965; Aug. 8.
Indicator: *See*—
Hospital indicator. Tire pressure indicator.
Inductor. A. S. MacGregor. 1,921,687; Aug. 8.
Industrial processes, Apparatus for controlling. E. B. Foote. 1,921,740; Aug. 8.
Industrial processes, Apparatus for controlling. E. B. Foote and F. B. Newell. 1,921,741; Aug. 8.
Inflatable articles, Making. A. V. Anderson. 1,920,961; Aug. 8.
Injector. C. H. True. 1,921,444; Aug. 8.
Insect destroying device. A. X. Anderson. 1,921,901; Aug. 8.
Insect repeller. W. E. Higgins. 1,921,821; Aug. 8.
Insecticide. E. T. Heasle. 1,921,158; Aug. 8.
Insole and shank, Combined. B. Feldman. 1,921,970; Aug. 8.
Insulating block. R. S. Frobisher. 1,921,518; Aug. 8.
Insulator. L. Fort. 1,920,978; Aug. 8.
Interchangeable sign. T. Mungen. 1,921,202; Aug. 8.
Internal combustion engine. E. Moore and F. Engel. 1,921,935; Aug. 8.
Internal combustion engine, Exhaust turbo-charged, double-acting. A. Buchi. 1,921,906; Aug. 8.
Internal combustion engine, Two-stroke cycle. W. De Wasmundt. 1,921,510; Aug. 8.
Internal combustion motor, Rotary. A. H. Schaefer. 1,921,782; Aug. 8.
Iodine and/or bromine from solutions containing same, Recovery of. F. G. Cottrell. 1,921,564; Aug. 8.
Iron or steel, Carburising. E. G. Mahin. 1,921,367; Aug. 8.
Ironing machine. E. C. Peter and J. A. Castricone. 1,921,301; Aug. 8.
Isomeric mono-chloro-ortho-hydroxy-diphenyls, Separating. E. C. Britton and F. Bryner. 1,921,727; Aug. 8.
Joint: *See*—
Pipe stem joint. Universal joint.
Swivel joint.
Joint for barrels and the likes. D. T. Morgan. 1,921,768; Aug. 8.
Joint for heater coils. C. A. Olson. 1,921,259; Aug. 8.
Journal box. H. T. Casey. 1,922,015; Aug. 8.
Journal box. G. F. Conch. 1,922,016; Aug. 8.
Journal box, Interchangeable. O. J. Horger. 1,921,884; Aug. 8.
Journal box, Plain roller-bearing. O. J. Horger. 1,921,883; Aug. 8.
Juvenile tiring. H. B. Soulen. 1,921,548; Aug. 8.
Key shocks, Elimination of. H. Roder. 1,921,859; Aug. 8.
Keying structure for motion picture projection machines. A. Dina. 1,921,866; Aug. 8.
Kiln. J. T. Underwood. 1,921,553; Aug. 8.
Knitting machines, Stop motion for. W. L. Smith, jr., and R. H. Lawson. 1,921,707; Aug. 8.
Knitting machines, Thread changing feeder mechanism of circular. J. H. G. Bayles. 1,921,502; Aug. 8.
Laboratory switchboard system. J. M. Dannheiser. 1,921,608; Aug. 8.
Ladder construction. G. B. Reed. 1,921,583; Aug. 8.
Lamp: *See*—
Safety lamp.
Lamp. H. M. Greist and G. J. La Vigne. 1,921,875; Aug. 8.
Lamp, Acetylene. J. H. Horsley. Des. 90,467; Aug. 8.
Lamp guard, Incandescent. G. B. Hume and G. W. Walls. 1,921,295; Aug. 8.
Lasts, Rebuilding. E. W. Durkee. 1,920,974; Aug. 8.
Latch: *See*—
Access panel latch.
Latch or closure device, Adjustable. G. L. Eber. 1,920,976; Aug. 8.
Latch or closure device, Adjustable. G. L. and J. Eber. 1,920,975; Aug. 8.
Latex, Concentration and purification of. J. McGavack. 1,921,575; Aug. 8.
Lathe, Orbital. W. F. Groene. 1,921,919; Aug. 8.
Lens holder construction and position indicator. A. Kindelmann and E. Boecking. 1,921,413; Aug. 8.
Life preserver. J. Catarau. 1,921,658-9; Aug. 8.
Light: *See*—
Dirigible light.
Light controlling method and means. A. Whitaker. 1,921,852; Aug. 8.
Lighter construction, Gas. E. W. Roberts. 1,921,778; Aug. 8.
Lighter, Electric cigar and cigarette. F. J. Hammeral. 1,921,254; Aug. 8.
Lining, Ball mill. F. L. Haushalter. 1,921,672; Aug. 8.
Lining for hot tops. W. M. Charman. 1,921,730; Aug. 8.
Liquid cooler. H. E. Crosby. 1,921,383; Aug. 8.
Liquid feeder. H. G. Coulson. 1,921,847; Aug. 8.
Liquid seal device for regulators. A. D. MacLean and C. B. Johnson. 1,921,366; Aug. 8.
Liquids, Method and apparatus for separating. B. E. Mourk. 1,921,689; Aug. 8.
Loading system. T. E. Shea. 1,921,431; Aug. 8.
Locked box. E. M. Lackey. 1,921,759; Aug. 8.
Lock: *See*—
Combination sash lock. Spare wheel lock.
Locking tubing tong, Adjustable. A. E. Carlson. 1,921,281; Aug. 8.
Loom having a stationary weft supply. W. Pool. 1,921,396; Aug. 8.
Loom spools, Setting. R. E. Vickerman. 1,921,053; Aug. 8.
Loudspeaker motor. T. A. Hunter. 1,921,924; Aug. 8.
Lubricating apparatus. E. R. Dayton and W. H. Rudolph. 1,921,118; Aug. 8.
Lubricating device for bearings. E. E. Wharton. 1,921,556; Aug. 8.
Lubricating systems, Float-controlled suction intake device for forced feed. E. J. Gulick. 1,921,670; Aug. 8.
Lubrication pump, Force feed. I. Cowles. 1,921,219; Aug. 8.
Luggage. G. H. Wheary. 1,921,110; Aug. 8.
Lumber and shingles, Surface finishing of. H. V. Whittal. 1,921,335; Aug. 8.
Lure. G. E. Unkefer. 1,921,176; Aug. 8.
Lure, Artificial. A. H. Lahm. 1,920,991; Aug. 8.
Machine for assembling springs. W. F. Murnane and E. D. De Lamar. 1,921,319; Aug. 8.

Machine for cleaning window shades. H. L. Howell. 1,921,675; Aug. 8.
Machine for fastening together folded sheets of paper with adhesive material. A. Parker and G. Parsons. 1,921,939; Aug. 8.
Machine for finishing the heads of bolts, screws, and the like. L. S. Burbank. 1,921,655; Aug. 8.
Machine for guiding cutting or welding burners, electrodes, and like implements. A. Schmidt. 1,921,888; Aug. 8.
Machine for hulling nuts and the like. O. A. Milam. 1,921,238; Aug. 8.
Machine for making bats. O. R. Winter 1,921,495; Aug. 8.
Machine for shaping uppers over lasts. W. T. B. Roberts. 1,921,099; Aug. 8.
Machine for shaping uppers over lasts. W. T. B. Roberts. 1,921,099; Aug. 8.
Machine for stacking and arranging biscuits and the like. J. C. Paterson and G. R. Baker. 1,921,580; Aug. 8.
Machine for washing glasses and other receptacles. C. J. De Forest. 1,921,509; Aug. 8.
Magazine for rapid firearms. A. F. Galdos. 1,921,871; Aug. 8.
Magneto. E. B. Nowosielski. 1,921,427; Aug. 8.
Mandrel. T. L. Hughes and A. E. Twist, jr. 1,921,125; Aug. 8.
Mandrel. W. M. Robinson. 1,921,584; Aug. 8.
Mandrel, Expanding. H. T. Mattern and C. Lindstrom. 1,921,316; Aug. 8.
Map, Zigzag folding. E. Sanwald. 1,921,332; Aug. 8.
Marker, Golf ball. E. A. Jones. 1,921,571; Aug. 8.
Masher. J. Mantelet. 1,921,936; Aug. 8.
Mass resembling ivory and making the same. R. Zellmann. 1,922,007; Aug. 8.
Mat for optical instruments, Adjustable. G. W. Johson and A. Grebe. 1,921,191; Aug. 8.
Match book holder for ash receptacles. A. C. Grunwald. 1,921,876; Aug. 8.
Match packet and method. R. S. Pullen. 1,921,372; Aug. 8.
Material transporting and handling apparatus. H. L. Warren. 1,921,959; Aug. 8.
Measuring instruments, Adjusting the plungers of. C. R. Syme. 1,921,791; Aug. 8.
Mechanical movement. E. S. Carpenter. 1,920,969; Aug. 8.
Mechanical movement. F. A. King. 1,920,988; Aug. 8.
Mechanism for feeding to and clamping bodies in, machines. C. H. Green. 1,921,989; Aug. 8.
Media forr protecting furs, hairs, feathers, and animal textile products against the attack of animal and plant pests. W. Lommel and H. Münsel. 1,921,364; Aug. 8.
Medicinal remedy. F. P. Nabenhauer. 1,921,424; Aug. 8.
Menthene, Production of. W. Schoeller, E. Schwenk, and R. Borgwardt. 1,921,138; Aug. 8.
Metal values, Recovery of. F. Johannsen. 1,921,825; Aug. 8.
Metals, Apparatus for producing profile. H. Seiferth. 1,921,486; Aug. 8.
Metals, Melting of nonferrous. G. S. Evans. 1,921,868; Aug. 8.
Metals, Purifying. C. E. Williams. 1,921,060; Aug. 8.
Methanol, Synthetic production of. R. S. Richardson. 1,921,776; Aug. 8.
Micrometer caliper attachment. C. H. Webbeking. 1,921,899; Aug. 8.
Middle ring coupling, Divided. C. P. Weber. 1,921,400; Aug. 8.
Mill: *See*—
Saw mill.
Mine jack. O. Sann. 1,921,542; Aug. 8.
Mineral matter, Coloring. H. L. Small. 1,921,010; Aug. 8.
Mirror. F. L. Karlson. 1,921,755; Aug. 8.
Mirror-equipped structure. B. M. Hess. 1,921,752; Aug. 8.
Mirror for trucks, Rear view. F. W. Crisman. 1,921,310; Aug. 8.
Mixer: *See*—
Concrete mixer.
Molded product, Laminated. R. H. Kienle and W. J. Scheiber. 1,921,757; Aug. 8.
Molding apparatus. J. W. Scott. 1,921,397; Aug. 8.
Molybdenum and tungsten carbonyl, Production of. M. Naumann. 1,921,536; Aug. 8.
Motor: *See*—
Fluid motor. Internal combustion motor.
Loud speaker motor.
Motor control, Remote. A. S. Benjamin. 1,921,799; Aug. 8.
Motor for sprinklers, Water. W. Birrell. 1,921,020; Aug. 8.
Motor starting system. C. C. Nelson and R. A. Crosby. 1,921,770; Aug. 8.
Motorcycle, Towable. A. L. Hess. 1,921,029; Aug. 8.
Motors, Voltage compensated starting relay for split phase. C. A. Nickle. 1,921,204; Aug. 8.
Mounting for garment carriers, Extension. J. J. Knape. 1,921,828; Aug. 8.
Mounting for inspection reelers and the like, Roll shaft. W. J. Cullen. 1,921,405; Aug. 8.
Mounting for vehicle springs, Combined shackle and bearing. E. L. Goltry. 1,922,000; Aug. 8.
Mounting plate for outlet boxes. D. L. Butow. 1,921,161; Aug 8.
Mucilage spreader. W. W. S. Carpenter. 1,921,248; Aug. 8.
Muffler. W. A. Jack, 3d. 1,921,468; Aug. 8.
Multiple-way valve. R. S. Newton. 1,921,092; Aug. 8
Nail. R. J. Farrell. 1,921,514; Aug. 8.
Nails, Making wire. R. J. Farrell. 1,921,515; Aug. 8.
Net, Landing. E. C. Walter. 1,921,596; Aug. 8.
Neutralization, Process of. L. Caldwell. 1,921,116; Aug. 8.
Newspaper receiver. H. E. Shelton. 1,921,889; Aug. 8.
Object forming press, Continuous. E. C. Mueller. 1,921,200; Aug. 8.
Observation port. F. B. Hunter. 1,921,230; Aug. 8.
Offsets, Preventing. E. C. Francoise. 1,921,313; Aug. 8.
Offsetting press. A. Ziska. 1,921,210; Aug. 8.
Oil burner. A. Fransosi. 1,921,666; Aug. 8.
Oil burner. F. E. Herr. 1,921,922; Aug. 8.
Oil burning apparatus. A. E. Marshall. 1,921,937; Aug. 8.
Oil, Heating. B. N. Broido. 1,921,602; Aug. 8.
Oil, Process and apparatus for cracking hydrocarbon. J. D. Seguy. 1,921,246; Aug. 8.
Oil recovery apparatus. B. R. Anderson. 1,921,279; Aug. 8.
Oil wells, Apparatus for extinguishing burning. K. Fleischmann. 1,921,739; Aug. 8.
Oils, Method and apparatus for cracking. B. Broido and J. R. Levaley. 1,921,603; Aug. 8.
Opener, Can. E. M. Darque. 1,921,911; Aug. 8.
Ores and other mineral aggregates, Concentrating. T. H. Aldrich, jr. 1,921,306; Aug. 8.
Organic compound and treating the same. J. H. Gravell. 1,921,668; Aug. 8.
Ornament. L. K. Stupell. 1,921,437; Aug. 8.
Oscillation generator. W. E. Bower. 1,921,501; Aug 8.
Oscillator and amplifier system, Relaxation. R. M. Page. 1,921,476; Aug. 8.
Oscillator, Crystal controlled. H. Schumacher. 1,921,844; Aug. 8.
Overjacket for molds. F. W. Hamel. 1,921,671; Aug. 8.
Oxide from arsenical products, Production of pure arsenous. W. Schopper. 1,921,706; Aug. 8.
Oyster culture. R. W. Robertson. 1,921,945; Aug. 8.
Packing, Apparatus for renovating journal box. E. S. Pearce. 1,921,095; Aug. 8.
Packing materials, Nonfogging photographic. S. E. Sheppard. 1,921,050; Aug. 8.
Padlock. E. B. Stone. 1,921,435; Aug. 8.
Palladium, Electrodeposition of. A. R. Powell and E. C. Davies. 1,921,941; Aug. 8.
Pan assembling means, Oil. C. W. Bailey. 1,921,379; Aug. 8.
Panel, Composite laminated. G. K. Lewis. 1,921,164; Aug. 8.
Paper box machine. E. G. Staude. 1,921,269; Aug. 8.
Paper, Coating. P. J. Massey. 1,921,868–9; Aug. 8.
Paper fastener. F. G. Houwen. 1,921,674; Aug. 8.
Paper, Mottling. N. F. Becker. 1,921,649; Aug. 8.
Papers, Manufacture of glassine. G. A. Richter. 1,921,540; Aug. 8.
Pasepartouting machine for lamp shades, baskets, and the like. O. G. Taylor and G. T. McDonald. 1,921,013; Aug. 8.
Paste, Resist. A. Schneevoigt and H. Krzikalla. 1,921,947; Aug. 8.
Peach pitting machine. G. Wilcox. 1,921,270; Aug. 8.
Peanut butter and making the same. R. Werner. 1,921,275; Aug. 8.
Percolator coffeepot. I. Grometstein. 1,921,748; Aug. 8.
Perroleum emulsions, Treating. A. M. Herbsman. 1,921,751; Aug. 8.
Petroleum in natural underground reservoirs, Storage of. F. F. Hill and A. C. Rubel. 1,921,358; Aug. 8.
Phosphorus oxychloride, Making. C. O. North. 1,921,370; Aug. 8.
Photo-electric tube. A. J. McMaster. 1,921,834; Aug. 8.
Photographic elements, Colored screening layer for sensitive. M. W. Seymour. 1,921,545; Aug. 8.
Picking and harvesting machine. A. J. Behling. 1,921,651; Aug. 8.
Picking machine. A. J. Behling. 1,921,650; Aug. 8.
Picture and sound record film, Motion. J. I. Crabtree and C. E. Ives. 1,921,964; Aug. 8.
Picture and sound record film, Motion. D. H. Stewart. 1,921,954; Aug. 8.
Picture film sound record, Fade-in and fade-out for. J. I. Crabtree. 1,921,963; Aug. 8.
Picture projecting machine, Motion. M. Berkowitz. 1,921,449; Aug. 8.
Picture projector, Motion. B. S. Carpenter. 1,921,215; Aug. 8.
Picture projector, Talking motion. R. P. May. 1,921,574; Aug. 8.
Pictures, images, and the like, Method and apparatus for the recording and projection of. J. H. O. Harries. 1,921,464; Aug. 8.
Pictures, Producing audible. E. Wildhaber. 1,921,494; Aug. 8.
Pin: *See*—
Removable guide pin. Soft collar pin.
Pin. A. G. Henrikson. 1,921,082; Aug. 8.
Pin for wearing apparel, Mirrored glass bow. J. Rosenberg. Des. 90,452. Aug. 8.
Pipe. J. C. England. 1,921,073; Aug. 8.

Pipe connecter, Automatic train. J. Robinson. 1,921,297; Aug. 8.
Pipe connecter, Automatic train. J. Robinson. 1,921,482; Aug. 8.
Pipe coupling. H. D. Stecher. 1,921,709; Aug. 8.
Pipe insulation. G. R. Baumeister. 1,921,646; Aug. 8.
Pipe joint and forming same. L. E. Stephenson. 1,921,642; Aug. 8.
Pipe stem joint, Flexible nonbreakable. O. M. Lerch. 1,921,530; Aug. 8.
Piston. M. O. Teetor. 1,921,643; Aug. 8.
Piston construction. A. C. Van Hoydonk. 1,921,996; Aug. 8.
Piston for Diesel engines, Trunk. C. G. Curtis. 1,921,607; Aug. 8.
Piston skirt expander. C. W. Prochaska. 1,921,429; Aug. 8.
Plant, Illuminated artificial. J. Frei, jr. 1,921,614; Aug. 8.
Plate washing, Pie. D. W. Smith. 1,921,267; Aug. 8.
Plating. W. R. Stocking. 1,922,005; Aug. 8.
Plug: *See*—
Electric attachment plug.
Plug expander, Boiler. E. Duchesne. 1,921,810; Aug. 8.
Ply stretching apparatus. W. S. Thompson. 1,921,594; Aug. 8.
Pocket sheath for fountain pens. D. H. Talt. 1,921,270; Aug. 8.
Poise attachment. T. H. Strachan. 1,921,436; Aug. 8.
Pole setting apparatus. N. M. Erdahl. 1,921,812; Aug. 8.
Polymerization products from alkylene oxides, Production of. F. Webel. 1,921,378; Aug. 8.
Polymerization products of diolefines, Production of. G. Ebert, F. A. Fries, and P. Garbach. 1,921,867; Aug. 8.
Portable pump. A. T. Flower. 1,921,916; Aug. 8.
Potash salts from liquors containing borax, Recovering. C. F. Ritchie, W. A. Gale, and W. H. Allen. 1,921,481; Aug. 8.
Pouring cup. J. W. Porter. 1,921,240; Aug. 8.
Power of turbine plants, Increasing. G. E. Kershaw. 1,921,678; Aug. 8.
Power transmission mechanism. E. Anderson. 1,921,598; Aug. 8.
Power transmission mechanism. W. D. Burton. 1,920,056; Aug. 8.
Power transmission mechanism. D. B. Foust. 1,921,406; Aug. 8.
Press: *See*—
Object forming press. Offsetting press.
Pressure gauge. O. Obison. 1,921,001; Aug. 8.
Pressure regulator. A. D. MacLean and C. B. Johnson. 1,921,365; Aug. 8.
Pressure regulator. C. Mott and G. G. Spencer. 1,921,632; Aug. 8.
Printer, Optical. F. H. Owens. 1,921,835; Aug. 8.
Printing machine. H. P. Elliott. 1,921,511; Aug. 8.
Printing mechanism for accounting machines. F. M. Carroll. 1,921,453; Aug. 8.
Production tester. G. A. Macready. 1,921,472; Aug. 8.
Propeller. B. B. McCrosky. 1,921,534; Aug. 8.
Propeller, Metallic. P. J. P. Ratier. 1,921,942; Aug. 8.
Propelling device. J. G. Steele. 1,921,893; Aug. 8.
Pulp, Producing puffed. J. E. Plumstead. 1,921,371; Aug. 8.
Pulsation apparatus. C. G. Sults. 1,921,787; Aug. 8.
Pulsation apparatus. C. G. Sults. 1,921,789; Aug. 8.
Pulverizer. E. H. Peabody. 1,921,166; Aug. 8.
Pump: *See*—
High pressure pump. Portable pump.
Lubrication pump. Revolving cylinder pump.
Pump controlling mechanism. W. B. Hughes. 1,920,985; Aug. 8.
Pump for hydraulic systems. B. H. Shinn. 1,921,008; Aug. 8.
Pump or the like, Rotary. E. E. Greve. 1,921,747; Aug. 8.
Pumping apparatus. L. A. Shortt. 1,921,265; Aug. 8.
Puppet head. K. F. Brill. 1,921,502; Aug. 8.
Rack: *See*—
Grease rack. Storage rack.
Racket bow. H. W. Hall. 1,921,616; Aug. 8.
Radiator. F. M. Young. 1,921,278; Aug. 8.
Radiator cap. M. E. Cheney. 1,921,909; Aug. 8.
Radiators, Forming. F. C. Reynolds. 1,921,041; Aug. 8.
Radio log and holder therefor. F. A. Smith. 1,921,103; Aug. 8.
Radiounit, Floor. E. F. Andrews. 1,922,008; Aug. 8.
Range, Gas. O. J. Leins. 1,921,762; Aug. 8.
Razor, Automatic safety. O. R. Peterson. 1,921,774; Aug. 8.
Reaction device, Variable. A. Schmidt, jr. 1,921,703; Aug. 8.
Reactors, Treatment of. E. C. Britton. 1,921,726; Aug. 8.
Receiver for glass forming machines. E. H. Lorenz. 1,921,393; Aug. 8.
Receptacle for granular or pulverulent condiments for table use. C. R. Langton. 1,921,471; Aug. 8.
Reciprocating movement. B. E. Lindsey. 1,921,235; Aug. 8.
Record controlled machine. W. F. Gutgesell. 1,921,408; Aug. 8.
Reel: *See*—
Hose reel.
Reel and cable, Electric blasting. H. Skaggs. 1,921,009; Aug. 8.
Reels, Mechanism for driving. E. S. Carpenter. 1,920,967; Aug. 8.
Refraction instrument. W. R. Morrison. 1,921,318; Aug. 8.
Refrigerants, Controlling low temperature. W. F. Baird. 1,921,147; Aug. 8.
Refrigerating apparatus. M. W. Kenney and S. E. Vickers. 1,921,163; Aug. 8.
Refrigerating apparatus. G. Muffy. 1,921,576; Aug. 8.
Refrigerating machine. L. G. Knapp and J. N. Roth. 1,921,829; Aug. 8.
Refrigerator. C. C. Curtis. 1,921,865; Aug. 8.
Refrigerator starter, Voltage compensated. L. P. Hutt. 1,921,127; Aug. 8.
Regulator: *See*—
Pressure regulator. Water regulator.
Temperature regulator. Window regulator.
Regulating system. M. Stöhr. 1,921,710; Aug. 8.
Remote control system. B. A. Wittkuhns. 1,921,982; Aug. 8.
Removable guide pin. N. M. Marsilius. 1,921,421; Aug. 8.
Reservoir applicator. J. De Philippe. 1,921,912; Aug. 8.
Resinous composition. R. H. Kienle. 1,921,758; Aug. 8.
Resins, and coating-compositions containing them, Making synthetic. C. G. Gauerke. 1,920,980; Aug. 8.
Resins, Modifying venyl. F. Robertson. 1,921,326; Aug. 8.
Revolving cylinder pump. M. V. Anderson. 1,921,720; Aug. 8.
Rim for tires. H. B. Townsley. 1,921,331; Aug. 8.
Ring: *See*—
Bridle ring. Sealing ring.
Connection ring.
Road maintenance machine. R. L. Ward. 1,921,712; Aug. 8.
Road reenforcement and joint. J. N. Heltzel. 1,921,081; Aug. 8.
Road treating machines, Attachment for. D. W. McLaughlin. 1,921,688; Aug. 8.
Roads, Surfacing. J. N. Heltzel. 1,921,185; Aug. 8.
Roads, yards, aerodromes, and like surfaces and means therefor, Manufacture of. J. Hines. 1,921,822; Aug. 8.
Rod: *See*—
Welding rod.
Rolled bodies from powderous materials, Method and apparatus for producing. C. A. Brackelsberg. 1,921,114; Aug. 8.
Roller bit. W. L. Childs. 1,921,216; Aug. 8.
Rolling machines and the like, Connection with continuous. L. Henderson. 1,921,357; Aug. 8.
Roof, Car. C. D. Bonsall. 1,921,803–4; Aug. 8.
Roof for tanks, Floating. G. V. Hackett. 1,921,877; Aug. 8.
Rope clamp. E. E. Erickson. 1,921,286; Aug. 8.
Rotary snap switch. G. J. Meuer. 1,921,765; Aug. 8.
Rotor and cooling the same, Dynamo electric machine. H. L. Smith. 1,921,140; Aug. 8.
Rubber articles, Manufacture of. E. A. Murphy, E. W. B. Owen, and D. F. Twiss. 1,921,130; Aug. 8.
Rubber articles, Splicing. C. W. Leguillon. 1,921,623; Aug. 8.
Rubber composition and preserving rubber. W. L. Semon. 1,921,007; Aug. 8.
Rubber, Method of and apparatus for treating sheet. W. W. De Laney. 1,921,455; Aug. 8.
Rubber product, Sheet. W. W. De Laney. 1,921,456; Aug. 8.
Rubber, Vulcanizing. G. H. Stevens. 1,921,375; Aug. 8.
Safe. A. Hofer and F. Danninger. 1,921,032; Aug. 8.
Safety device. J. T. Coghill. 1,921,217; Aug. 8.
Safety lamp. S. N. Buchanan. 1,921,069; Aug. 8.
Sander, Drum type. P. A. Solem. 1,921,995; Aug. 8.
Sanitary smoking stem for pipes, cigars, and the like. J. Szilagyi. 1,921,792; Aug. 8.
Sash construction, Window. O. M. Edwards. 1,921,386; Aug. 8.
Saw mill. F. W. Horstkotte. 1,921,569; Aug. 8.
Saws, Method and apparatus for making band. A. M. Remington. 1,921,039; Aug. 8.
Scale. C. A. Lindsay. 1,921,979; Aug. 8.
Scarf for electric arc welding thick metal articles. A. W. Priebe. 1,921,242; Aug. 8.
Scoring device for contract bridge. H. Heering. 1,921,678; Aug. 8.
Scraper, Hydraulic. G. E. Dean. 1,921,221; Aug. 8.
Screw propeller. P. Levasseur. 1,921,931; Aug. 8.
Screen: *See*—
Vibrating screen.
Sealing ring. F. J. Walsh. 1,921,555; Aug. 8.
Seat construction. B. S. Floraday. 1,921,224; Aug. 8.
Seat for cleaning windows. O. L. Weller. 1,921,401; Aug. 8.
Security device for battery ignition circuits. P. Jollvet and J. Jollvet. 1,921,974; Aug. 8.
Semaphore. E. S. Cunard. 1,921,349; Aug. 8.
Semitrailer, Automatic. G. H. Connors and F. C. Stig. 1,921,250; Aug. 8.

Separator: *See*—
Centrifugal separator.
Separator for straining pulpy material, such as wood pulp, cellulose, paper pulp, and the like, Centrifugal. R. Heinrich and H. Zipprian. 1,921,750; Aug. 8.
Serving table. E. S. Graham. 1,921,462; Aug. 8.
Sewing machine, Inseam shoe. A. R. Morrill. 1,920,998; Aug. 8.
Sewing machine, Shoe. L. E. Topham. 1,921,897; Aug. 8.
Shaft coupling, Flexible. Y. A. Ahnger. 1,921,744; Aug. 8.
Shaft for golf clubs and making. D. F. Boyden. 1,921,068; Aug. 8.
Sharpener, Crayon. L. Cassini. 1,920,957; Aug. 8.
Shearing machine. J. H. Murch. 1,920,999; Aug. 8.
Sheet feeding apparatus. J. Perry. 1,921,167; Aug. 8.
Sheet handling mechanism. F. H. Goodell and J. E. Chinnock. 1,921,744; Aug. 8.
Sheet metal die. G. E. Ireland. 1,921,188; Aug. 8.
Sheets or films, Apparatus for making. L. T. Stephens. 1,921,953; Aug. 8.
Shield for hot air registers or the like. W. A. Wiesman. 1,921,305; Aug. 8.
Shield, Headlight. J. M. Landry. 1,920,992; Aug. 8.
Shield or anchor, Expansion. C. C. Tomkinson. 1,921,794; Aug. 8.
Shock absorber. D. Head. 1,921,121; Aug. 8.
Shock absorber. L. Simon and R. Marcon. 1,921,951; Aug. 8.
Shock absorber with remote control and adjusting device, Hydraulic. M. L. Fox. 1,921,025; Aug. 8.
Shoe. C. Miller. Des. 90,446–7; Aug. 8.
Shoe. C. Watanabe. 1,921,177; Aug. 8.
Shoe fitting device. E. J. Bliss. 1,921,997; Aug. 8.
Shoe heel. T. G. Dusopolos. 1,921,663; Aug. 8.
Shoemaker's tool. N. Coletta. 1,921,506; Aug. 8.
Shoe sole. L. M. Oakley. Des. 90,450; Aug. 8.
Shoe sole. P. Van Cleef. Des. 90,463; Aug. 8.
Shoe stitcher. E. G. Wolf. 1,921,277; Aug. 8.
Shunting system. K. Möller. 1,921,395; Aug. 8.
Sickle bar divider attachment. H. Stemman. 1,921,952; Aug. 8.
Sign: *See*—
Advertising sign. Interchangeable sign.
Signal: *See*—
Traffic signal. Vehicle side signal.
Signal device, Film winding. E. C. Fritts. 1,921,517; Aug. 8.
Signal receiving system. H. R. Hayden. 1,921,226; Aug. 8.
Signaling device. M. Wald. 1,921,273; Aug. 8.
Silk, Treating artificial. H. F. Niogret. 1,921,426; Aug. 8.
Skate, Roller. H. F. Whitcomb, Jr. 1,921,018; Aug. 8.
Skylight. C. Raschka. 1,921,303; Aug. 8.
Slab structure, Composite. C. F. Davis and J. G. Brush. 1,921,285; Aug. 8.
Smoking stand. J. L. Levenberg and H. M. Seeberg. 1,921,933; Aug. 8.
Snowplow. G. C. Soule and J. B. Woodbury. 1,921,374; Aug. 8.
Soap slicing machine. H. Maskery. 1,921,199; Aug. 8.
Sodium carbonate, Low apparent density. H. H. Chesny. 1,921,505; Aug. 8.
Soft collar pin. C. E. Ervin. 1,921,969; Aug. 8.
Sole laying machine. S. J. Finn. 1,920,977; Aug. 8.
Soles, Cementing. C. A. Hill. 1,921,083; Aug. 8.
Soluble constituents from dilute solutions, Separating difficultly. F. G. Cottrell. 1,921,563; Aug. 8.
Solutions of inorganic substances in polyalcohols, Making colloidal. C. H. Von Hoessle. 1,922,006; Aug. 8.
Solvent for remedies. R. Berendes and W. Kropp. 1,921,722; Aug. 8.
Sorter, Automatic. E. H. Bickley. 1,921,862; Aug. 8.
Sorting machine. E. H. Bickley. 1,921,863; Aug. 8.
Sound beats, Visually recording. G. Lane. 1,921,470; Aug. 8.
Sound recording. K. F. Morgan. 1,921,037; Aug. 8.
Sound records for reproduction in combination with moving pictures, Preparation of. A. Whitaker and A. M. Hellawell. 1,921,853; Aug. 8.
Spacer for piling pipe. G. B. Hetherington. 1,921,228; Aug. 8.
Spare wheel lock. W. L. Hawkins. 1,921,225; Aug. 8.
Spare wheel lock. E. B. Stone. 1,921,434; Aug. 8.
Spike, Railway. E. Kelly. 1,921,194; Aug. 8.
Splint, Surgical. J. J. Ettinger. 1,921,987; Aug. 8.
Sponge rubber pad to a backing member, Attaching a. A. Graf. 1,921,252; Aug. 8.
Sponge washer. W. E. Harvie. 1,921,921; Aug. 8.
Spoon or similar article. A. H. Staf. Des. 90,461; Aug. 8.
Spraying apparatus. A. O. Price. 1,921,698; Aug. 8.
Spring: *See*—
Coiled spring.
Spring assembling machine. C. D. Karr. 1,922,002; Aug. 8.
Spring board. E. P. Finigan. 1,921,664; Aug. 8.
Spring connection for vehicles. H. D. Church. 1,921,562; Aug. 8.
Spring shackle. F. E. Fisher. 1,921,665; Aug. 8.
Spring structure. E. L. Goltry. 1,922,001; Aug. 8.
Spring testing machine. C. A. Thelander. 1,921,793; Aug. 8.
Spring winder. G. H. Babcock. 1,921,600; Aug. 8.
Sprocket or pulley, Expansible. C. B. Larson and W. C. Hammond. 1,921,197; Aug. 8.
Stain resisting wrought article. F. M. Becket. 1,920,953; Aug. 8.
Stair building tool. F. F. and E. A. Cravell. 1,921,356; Aug. 8.
Stake, Header board. C. B. Polhemus. 1,921,802; Aug. 8.
Stand: *See*—
Flatiron stand. Smoking stand.
Starter, Engine. R. Chilton. 1,921,344; Aug. 8.
Starting apparatus for rotary engines. S. Herts and M. P. Berger. 1,921,880; Aug. 8.
Starting mechanism for internal combustion engines, Automatic. C. I. McNeil. 1,920,996; Aug. 8.
Steam engine, Rotary. M. L. Darr. 1,921,662; Aug. 8.
Steering gear mechanism. D. Head. 1,921,122; Aug. 8.
Steering mechanism. R. H. Thompson. 1,921,141; Aug. 8.
Stencil printing and copying machine. H. P. Elliott. 1,921,612; Aug. 8.
Stoker, Underfeed rotary grate. C. Broesman. 1,921,864; Aug. 8.
Stop construction, Spring pressed window. R. T. Axe. 1,922,011; Aug. 8.
Stop, Gas pipe. E. Crain. 1,921,809; Aug. 8.
Storage rack. C. D. Burrell. 1,921,656; Aug. 8.
Storage rack. R. E. De Lamar. 1,921,222; Aug. 8.
Storage tank, Electrically welded high pressure. A. W. Priebe. 1,921,241; Aug. 8.
Store front. H. J. McNeil. Des. 90,445; Aug. 8.
Strand unwinding apparatus. H. P. Arkema. 1,920,962; Aug. 8.
Stretcher, Shoe. C. O. Olson. 1,921,093; Aug. 8.
Strip feeding or dispensing machine. L. Link. 1,921,626; Aug. 8.
Suction cleaner. W. H. Kitto. 1,921,033; Aug. 8.
Sulphur, Apparatus for burning. L. Gillett. 1,921,289; Aug. 8.
Sulphur-containing products of the acid hydrolysis of keratin and keratin substances, Manufacture and separation of. E. Sturm. 1,921,898; Aug. 8.
Sulphuric anhydride compounds of pyridine, Production of. R. S. Barnes, J. E. G. Harris, and J. Thomas. 1,921,497; Aug. 8.
Sunshade and headrest, Combined. D. P. Moore. 1,921,984; Aug. 8.
Support: *See*—
Brake rod support. Draft gear support.
Cushion support.
Support for tables, chairs, etc., Collapsible. W. Garman. 1,921,026; Aug. 8.
Supporter, Hose. B. H. White. 1,921,851; Aug. 8.
Supporting gear, Retractable. J. F. Macourek. 1,921,420; Aug. 8.
Suspenders and slides, Assembling. L. W. Joyce. 1,921,826; Aug. 8.
Swabs, Apparatus for manufacturing medical. E. C. Bunnell and L. W. Barnes. 1,921,604; Aug. 8.
Switch: *See*—
Electric switch. Rotary snap switch.
Switch. F. E. Bessler. 1,922,012; Aug. 8.
Switch. H. L. Van Valkenburg. 1,921,272; Aug. 8.
Switch. G. O. Wilms. 1,921,795; Aug. 8.
Switching device, Electromagnetic. J. N. Reynolds and H. F. Dobbin. 1,921,430; Aug. 8.
Swivel joint. J. J. Santiago. 1,921,136; Aug. 8.
Table: *See*—
Cutting table. Serving table.
Table, stand, box or the like, Collapsible. P. E. Bird. 1,921,801; Aug. 8.
Table top, Supplemental. M. F. Williams and C. F. Morse. 1,921,615; Aug. 8.
Tabulating machine. J. T. Jones. 1,921,412; Aug. 8.
Tabulating machine. W. W. Lasker. 1,920,993; Aug. 8.
Tank: *See*—
Storage tank.
Tank heater. J. H. Luedke. 1,921,683; Aug. 8.
Tape dispensing machine. L. Link. 1,921,625; Aug. 8.
Tar distillation. S. P. Miller. 1,921,300; Aug. 8.
Targets emitting short flashes of light, Method and instrument for determining the position of. R. Mechau. 1,921,030; Aug. 8.
Telegraph system. B. P. Hamilton. 1,921,079; Aug. 8.
Telegraph transmitting apparatus. E. G. Griffith. 1,921,407; Aug. 8.
Telephone pay station apparatus. W. H. Edwards. 1,921,071–2; Aug. 8.
Telephone system. E. E. Hinrichsen. 1,921,409; Aug. 8.
Tellurium dithiocarbamates and making the same. P. I. Murrill. 1,921,001; Aug. 8.
Temperature apparatus, Constant. O. M. Hovgaard. 1,921,433; Aug. 8.
Temperature apparatus, Constant. B. Stallard. 1,921,432; Aug. 8.
Temperature carbonization, Apparatus for low. J. D. McQuade. 1,921,993; Aug. 8.
Temperature compensating means for weighing scales. W. F. Stimpson and W. E. Finch. 1,921,848; Aug. 8.
Temperature control apparatus. E. C. Wood. 1,921,178; Aug. 8.
Temperature control mechanism for heating systems, Average. E. A. Taylor, M. D. Pence, and C. A. Dunham. 1,921,172; Aug. 8.
Temperature regulating system. H. D. Colman. 1,921,154; Aug. 8.

Temperature regulator, Automatic. F. A. Gaston. 1,921,667; Aug. 8.
Terminal, Locomotive. J. E. Hawe. 1,921,878; Aug. 8.
Test block. R. W. Grace. 1,921,746; Aug. 8.
Testing apparatus. O. R. Burden. 1,921,986; Aug. 8.
Testing apparatus. G. Q. Lewis. 1,921,624; Aug. 8.
Textile fabric or similar article. M. Christen. Des. 90,435; Aug. 8.
Textile fabric or similar article. S. Cusson. Des. 90,436; Aug. 8.
Textile fabric or similar article. W. Speck. Des. 90,460; Aug. 8.
Textile fabric or similar article. W. Willheim. Des. 90,465–6; Aug. 8.
Textile fabric or the like. R. E. Fatherly. Des. 90,437; Aug. 8.
Textile fibers by means of dyes formed by oxidation, Dyeing and printing of. M. Battegay. 1,921,148; Aug. 8.
Textile vegetable fibers into threads having the texture of wool, Conversion of. F. G. Maillard. 1,921,935; Aug. 8.
Textiles and composition used in the method, Treating. H. I. Jones. 1,921,926; Aug. 8.
Therapeutic appliance. J. D. Burkholder. 1,921,343; Aug. 8.
Thermionic devices, Manufacture of. L. H. Bedford. 1,921,067; Aug. 8.
Thermostat. W. Eichhols and R. W. Leutwiler. 1,921,312; Aug. 8.
Ticket, Pin. C. A. Flood. 1,921,814; Aug. 8.
Tile making machine. J. L. McDonough and F. B. Williams. 1,921,237; Aug. 8.
Tiles, Method of and apparatus for making building. O. Schnurer. 1,921,100; Aug. 8.
Tillage implement. C. T. Bay. 1,921,480; Aug. 8.
Timber, Decorticating device for. A. Bezner. 1,921,904; Aug. 8.
Timing device. W. T. Barker, jr. 1,921,880; Aug. 8.
Timing device for controlling telephone or other circuits. S. Connell. 1,921,733; Aug. 8.
Tire forming device. A. Otto. 1,921,579; Aug. 8.
Tire, Pneumatic. W. H. Paul. 1,921,772; Aug. 8.
Tire pressure indicator. J. W. Swallen. 1,921,550; Aug. 8.
Tire rim for pneumatic tires. R. Rodrigues and G. Chaves. 1,921,245; Aug. 8.
Tool: *See*—
Fluid operated tool. Stair building tool.
Shoemaker's tool. Twisting tool.
Tools, Attachment for rock drill. A. E. Bundsen. 1,921,341; Aug. 8.
Tooth sprocket wheel and making same, Reversible. L. E. Smoot. 1,921,329; Aug. 8.
Top, Rumble seat. C. C. Butefish. 1,921,308; Aug. 8.
Torque distributor. F. P. Lawler. 1,920,994; Aug. 8.
Total taking mechanism. G. F. Daly. 1,921,454; Aug. 8.
Toy, Electrically lighted. A. N. Smith. 1,922,004; Aug. 8.
Toy for horticultural purposes. A. C. Gilbert. 1,921,027; Aug. 8.
Toy gun. P. Weber. 1,921,017; Aug. 8.
Toy pistol. E. S. Peake. 1,921,133; Aug. 8.
Traffic control system, Highway. D. J. McCormick. 1,921,423; Aug. 8.
Traffic signal. W. Huizinga. 1,921,359; Aug. 8.
Trailer brake. P. A. S. Iversen. 1,921,161; Aug. 8.
Transmission. C. W. Weiss. 1,921,014; Aug. 8.
Transmission systems, Treatment of echoes in. H. A. Affel. 1,921,063; Aug. 8.
Transmitter tube for ultra-short waves. F. Schröter. 1,921,640; Aug. 8.
Transmitters, Apparatus for controlling. G. T. Royden. 1,921,168; Aug. 8.
Trap: *See*—
Burglar trap.
Tray and making the same, Multicompartment. T. M. Hiester. 1,921,256; Aug. 8.
Tray, Serving. E. S. Graham. 1,921,463; Aug. 8.
Treating process. R. L. Sibley. 1,921,546; Aug. 8.
Trimmer, Hedge. W. R. Green. 1,921,520; Aug. 8.
Trimming machine. S. J. Finn. 1,921,075; Aug. 8.
Truck and journal-box, Railway car. O. J. Horger. 1,921,582; Aug. 8.
Truck bolster and side bearing structure with lateral motion means. P. E. Drenning. 1,921,913; Aug. 8.
Truck, Hand. L. C. Conner. 1,921,661; Aug. 8.
Truck structure, Railway motor. W. H. Meyer. 1,920,997; Aug. 8.
Trunk, Automobile extensible. R. E. Stevenson. 1,921,304; Aug. 8.
Tube: *See*—
Discharge tube. Vacuum tube.
Photo-electric tube.
Tube and making same, Celluloid covered metallic. H. C. Lagerblade. 1,921,929; Aug. 8.
Tube apparatus, Glow. C. J. Kayko. 1,921,620; Aug. 8.
Tube cleaner. J. H. Young. 1,921,019; Aug. 8.
Tube terminal, Pneumatic. C. S. Jennings. 1,921,391; Aug. 8.
Tube to a metallic dispensing terminal, Connecting a collapsible cellophane. G. W. Bungay. 1,921,021; Aug. 8.
Tubes, Making. L. T. Frederick. 1,921,516; Aug. 8.
Tubing, Apparatus for making finned. R. C. Jones and R. Colston. 1,921,975; Aug. 8.
Tubing catcher. N. K. Smith and R. K. Hertel. 1,921,547; Aug. 8.
Tubing, Fin. R. C. Jones and R. Colston. 1,921,927; Aug. 8.
Tubing, Making finned. R. C. Jones and R. Colston. 1,921,928; Aug. 8.
Turbine, Elastic fluid. O. D. H. Bentley. 1,921,903; Aug. 8.
Turbine, Elastic fluid. H. L. Guy. 1,922,017; Aug. 8.
Turnstile. F. L. Chapman. 1,920,958; Aug. 8.
Twisting tool. A. G. Marsh. 1,921,198; Aug. 8.
Typewriting machine. B. C. Stickney. 1,921,490; Aug. 8.
Typewriting, Power actuated. O. A. Hokanson. 1,921,159; Aug. 8.
Ultra-short-wave system. H. E. Hollmann. 1,921,187; Aug. 8.
Underreamer, Hydraulic. J. J. Santiago. 1,921,135; Aug. 8.
Underwear, Men's. J. K. Heyman and A. F. Wensel. Re16,914; Aug. 8.
Universal joint. A. A. Warner. 1,921,274; Aug. 8.
Vacuum cleaner. L. Ell. Re18,915; Aug. 8.
Vacuum cleaner, Electrical. K. Koritzke. 1,921,085; Aug. 8.
Vacuum tube. C. J. Kayko. 1,921,619; Aug. 8.
Vacuum tube. R. M. Wise. 1,921,061; Aug. 8.
Vacuum valve. R. R. Fleming. 1,921,915; Aug. 8.
Valuable products from tall oil, Production of. H. Fransen and R. Held. 1,921,566; Aug. 8.
Valve: *See*—
Check and gate valve. Vacuum valve.
Multiple-way valve.
Valve. J. O. Lewis. 1,921,298; Aug. 8.
Valve. S. W. Sparks. 1,921,846; Aug. 8.
Valve bodies, Making rolled steel. S. W. Sparks. 1,921,589; Aug. 8.
Valve for release of fluids, Cutter. D. Mapes. 1,921,831; Aug. 8.
Valve mechanism. P. C. Temple. 1,921,551; Aug. 8.
Valve-operating mechanism. R. W. Dinsl. 1,920,973; Aug. 8.
Vehicle, Cable reel transporting. J. Kuchar. 1,921,283; Aug. 8.
Vehicle, Motor. H. D. Church. 1,921,660; Aug. 8.
Vehicle, Motor. K. A. Simmon. 1,921,588; Aug. 8.
Vehicle, Motor. M. Tibbetts. 1,921,552; Aug. 8.
Vehicle side signal. F. E. Gragg and L. B. Cohn. 1,921,290; Aug. 8.
Vehicle wheel. E. A. Nelson. 1,921,131; Aug. 8.
Vehicle, Wheeled. L. W. Wolfe. 1,921,597; Aug. 8.
Veneer and a new article of veneer, Making. R. N. Hartzell. 1,921,184; Aug. 8.
Veneer and a veneer machine, Making. R. N. Hartzell. 1,921,183; Aug. 8.
Vent cap, Screened. W. H. Rice and H. M. Lyon. 1,921,943; Aug. 8.
Ventilating system, One-unit. F. F. Wood. 1,921,900; Aug. 8.
Ventilator: *See*—
Automobile ventilator.
Ventilator fitting. J. R. Dickinson. 1,921,457; Aug. 8.
Ventilator for motor vehicle window. J. J. Foley. Des. 90,439; Aug. 8.
Vibrating screen. E. Deister. 1,920,972; Aug. 8.
Wagon, Coaster. C. W. Haagen. 1,921,818; Aug. 8.
Walls, Perforated retainer plate construction for fire brick. M. J. Conroy. 1,921,346; Aug. 8.
Washer: *See*—
Sponge washer.
Washing device. W. B. Underwood. 1,921,052; Aug. 8.
Watch or clock movement. H. I. Marmorstein. 1,921,832; Aug. 8.
Water gas method, Carburetted. E. L. Hall. 1,922,018; Aug. 8.
Water heater. J. W. Carroll. 1,921,807; Aug. 8.
Water regulator, Feed. J. M. Barrett. 1,921,498; Aug. 8.
Water tube boiler. A. Schmidli. 1,921,630; Aug. 8.
Wave filter. W. P. Mason. 1,921,035; Aug. 8.
Wave-meter for ultra-short waves. R. H. Darbord. 1,921,117; Aug. 8.
Wave signaling system. W. A. MacDonald. 1,921,087–8; Aug. 8.
Wax cartridge for wax applicators, Renewable. F. Riebel, jr. 1,921,944; Aug. 8.
Wax materials, Distillation of. W. H. Bahlke. 1,921,860; Aug. 8.
Weather strip for car doors. J. H. Mattern. 1,921,422; Aug. 8.
Webs or strips, Method of and apparatus for feeding. K. S. Smith. 1,921,487; Aug. 8.
Welding machine, Arc. L. J. Kinnard. 1,921,572; Aug. 8.
Welding rod, Arc. J. M. Keir. 1,921,528; Aug. 8.
Well bore feeler. L. S. Hamer. 1,921,522; Aug. 8.
Well head equipment. C. C. Brown. 1,921,115; Aug. 8.
Wheel: *See*—
Cushion cleat wheel. Vehicle wheel.
Wheel construction. P. M. Miller. 1,921,475; Aug. 8.
Wheels, Differentially truing wire. C. L. Eksergian. 1,921,223; Aug. 8.
Windshield. A. F. Gauger. 1,921,519; Aug. 8.
Windshield operating mechanism. A. T. Potter. 1,921,260; Aug. 8.
Window. L. F. Exner. 1,921,074; Aug. 8.

Window and radiator inclosure, Combination. F. C. Reynolds. 1,921,040; Aug. 8.
Window and sash construction. R. T. Axe. 1,922,009; Aug. 8.
Window channel. C. P. Schlegel. 1,921,484; Aug. 8.
Window construction (widthwise adjustable sash guide). R. T. Axe. 1,922,010; Aug. 8.
Window regulator. L. B. Rivard. 1,921,263; Aug. 8.
Wiper, Windshield. A. A. Bull and W. A. Wood. 1,921,070; Aug. 8.
Wire, Apparatus for marking. C. P. Berolzheimer and K. H. Andren. 1,921,800; Aug. 8.
Wire stripping apparatus. R. O. Crowell. 1,921,364; Aug. 8.
Wire terminal. R. W. Grace. 1,921,745; Aug. 8.
Wood fiber mass. F. Rühlemann and O. R. Herdey. 1,921,780; Aug. 8.
Wood preserving media. C. Räth and F. Heckmanns. 1,921,324; Aug. 8.
Wood pulp, Production of. L. B. Decker. 1,921,966; Aug. 8.
Wood shaper. W. M. Whitney and A. White. 1,921,715; Aug. 8.
Wrappers, Cluster crimper for coin. E. P. Donnellan. 1,921,179; Aug. 8.
Wrench. P. Porte. 1,921,322; Aug. 8.
Wrench. P. Porte. 1,921,980; Aug. 8.
X-ray apparatus. F. W. Bishop. 1,921,499; Aug. 8.
Zinc ore, Purifying. O. Gerlach. 1,921,743; Aug. 8.
Zinc sulphate, Production of. K. J. Petschow. 1,921,773; Aug. 8.
Zinc white, Manufacture of. V. Szidon. 1,921,591; Aug. 8.
Zinciferous material, Reducing. E. C. Handwerk and G. T. Mahler. 1,921,820; Aug. 8.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 8, 1933

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 20: 1,920,990
2— 57: 1,921,646
123: 1,921,467
1,921,572
224: Re.18,914
5— 111: 1,921,134
209: 1,921,209
337: 1,921,984
8— 2: 1,921,985
5: 1,921,148
1,921,920
6: 1,920,987
1,921,635
1,921,947
9— 8: 1,921,800
17: 1,921,658
1,921,659
10— 6: 1,921,408
11: 1,921,345
20: 1,921,655
27: 1,921,654
54: 1,921,515
98: 1,921,784
162: 1,921,485
11— 1: 1,921,201
12— 4: 1,921,009
17: 1,921,166
19.2: 1,921,097
33: 1,920,977
48: 1,921,641
103: 1,921,506
128.6: 1,921,093
133: 1,920,974
148: 1,921,053
15— 18: 1,921,053
40: 1,921,675
76: 1,921,809
97: 1,920,989
104.14: 1,921,019
104.20: 1,921,096
130: 1,921,921
131: 1,921,637
179: 1,921,660
244: 1,921,252
16— 40: 1,921,314
111: 1,921,526
17— 2: 1,921,440
5: 1,921,055
7: 1,920,964
18— 5: 1,921,114
8: 1,921,123
15: 1,921,963
33: 1,921,926
48: 1,921,436
50: 1,921,007
53: 1,921,575
58: 1,921,130
89: 1,921,929
19— 55: 1,921,311
121: 1,921,308
145: 1,921,604
20— 1.01: 1,921,557
4: 1,921,516
20: 1,921,193
23: 1,921,575
40.5: 1,921,519
56.4: 1,921,074
79: 1,921,781
91: 1,921,164
22— 65: 1,921,699
79: 1,921,240
97: 1,921,360
112: 1,921,671
143: 1,921,397
147: 1,921,720
1,921,730
1,921,731
1,921,732
209: 1,921,681
23— 1: 1,921,726
41: 1,921,481
63: 1,921,505
79: 1,921,290
125: 1,921,773
134: 1,921,705
144: 1,921,708
147: 1,921,891
22— 156: 1,921,388
162: 1,921,255
203: 1,921,370
1,921,536
212: 1,921,856
217: 1,921,553
1,921,884
250: 1,921,078
278: 1,921,289
24— 66: 1,921,889
67: 1,921,909
1,921,999
115: 1,921,777
126: 1,920,970
133: 1,921,286
153: 1,921,674
159: 1,921,062
26— 30: 1,921,257
30: 1,921,544
41: 1,921,008
42: 1,921,100
118: 1,921,309
1,921,881
148: 1,921,553
156: 1,920,982
28— 55.6: 1,921,053
29— 33: 1,921,975
64: 1,921,370
67: 1,921,223
157.3: 1,921,041
148.2: 1,921,021
1,921,256
1,921,642
157.1: 1,921,580
157.3: 1,921,926
30— 3: 1,921,911
11: 1,921,520
12: 1,921,774
22: 1,921,535
32— 12: 1,921,613
33— 1: 1,921,536
3: 1,921,907
27: 1,921,592
76: 1,920,989
102: 1,921,386
147: 1,921,701
167: 1,921,599
178: 1,921,822
34— 8: 1,921,321
35— 16: 1,921,692
36— 41: 1,921,663
51: 1,921,177
76: 1,921,970
44: 1,921,374
106: 1,921,712
141: 1,921,491
188: 1,921,221
40— 3: 1,921,077
26: 1,921,814
64: 1,921,202
77: 1,921,899
98: 1,921,103
109: 1,921,451
119: 1,921,515
126: 1,921,254
1,921,570
132: 1,921,102
140: 1,921,437
41— 1: 1,921,013
17: 1,921,335
24: 1,921,458
30: 1,921,571
42— 57: 1,921,133
43— 12: 1,921,223
1,921,496
22: 1,920,986
36: 1,920,991
43: 1,921,667
48: 1,921,176
89: 1,921,987
45— 2: 1,921,357
1,921,690
11: 1,921,801
18: 1,921,753
31: 1,921,645
51: 1,921,462
1,921,463
45— 97: 1,921,755
1,921,905
117: 1,921,026
137: 1,921,561
46— 48: 1,922,004
47— 17: 1,921,027
48— 77: 1,921,485
176: 1,921,517
180: 1,921,282
206: 1,921,711
206: 1,922,018
49— 14: 1,921,308
47: 1,921,300
48: 1,921,489
51: 1,921,512
50— 26: 1,921,305
1,921,533
51— 8: 1,921,744
94: 1,921,714
95: 1,920,979
112: 1,921,080
130: 1,921,086
174: 1,911,513
187: 1,921,211
218: 1,921,764
241: 1,921,333
273: 1,921,995
278: 1,920,986
1,920,988
53— 1: 1,921,036
3: 1,921,748
55— 51: 1,921,199
56— 273: 1,921,488
314: 1,921,982
337: 1,921,980
338: 1,921,951
1,921,947
129: 1,921,896
60— 13: 1,921,908
1,921,907
52: 1,921,965
54: 1,921,014
54.6: 1,921,008
70: 1,921,576
61— 40: 1,921,236
62— 1: 1,920,931
91.5: 1,921,147
115: 1,921,163
116: 1,921,576
1,921,965
117: 1,921,178
1,921,267
126: 1,921,573
141: 1,921,363
160: 1,921,540
64— 8: 1,921,197
1,921,788
96: 1,921,910
97: 1,921,144
102: 1,921,727
103: 1,921,374
65— 15: 1,921,248
45: 1,921,471
46: 1,921,311
66— 140: 1,921,902
165: 1,921,707
170: 1,921,271
183: 1,921,908
67— 7.1: 1,921,554
1,921,555
68— 9: 1,921,301
27: 1,921,088
70— 18: 1,920,983
90: 1,921,226
1,921,494
108: 1,921,435
72— 55: 1,921,107
101: 1,921,340
1,921,343
106: 1,921,981
122: 1,921,538
73— 31: 1,921,567
51: 1,921,320
1,921,798
82: 1,920,971
110: 1,921,001
74— 7: 1,920,994
1,921,405
1,921,849
1,921,880
74— 14: 1,921,070
1,921,182
1,921,235
21: 1,921,402
1,921,749
31: 1,921,239
34: 1,920,956
1,921,595
41: 1,920,989
53: 1,921,994
79: 1,921,122
107: 1,921,459
108: 1,921,607
1,921,906
75— 1: 1,921,195
1,921,416
1,921,417
1,921,418
1,921,709
6: 1,921,174
17: 1,921,060
1,921,212
22.5: 1,921,588
28: 1,921,743
1,921,320
1,921,325
58: 1,920,963
1,921,986
62: 1,921,180
1,921,721
77— 62: 1,921,721
63: 1,921,316
80— 19: 1,921,486
42: 1,921,383
81— 9.51: 1,921,384
128: 1,921,281
155: 1,921,980
161: 1,921,222
83— 9: 1,921,919
31: 1,921,502
83— 9: 1,921,672
46: 1,921,106
1,921,914
73: 1,921,695
85— 2.4: 1,921,794
30: 1,921,194
1,921,514
87— 5: 1,921,054
12: 1,921,886
17: 1,921,948
27: 1,921,127
88— 1: 1,921,918
1.5: 1,921,191
2.2: 1,921,620
14: 1,921,469
16.2: 1,921,470
1,921,494
1,921,553
16.4: 1,921,288
17: 1,921,215
1,921,449
20: 1,921,318
24: 1,921,214
1,921,335
20: 1,921,647
54: 1,921,971
1,921,972
57: 1,921,413
89— 33: 1,920,984
91— 38: 1,921,636
51: 1,921,110
67.4: 1,921,246
68: 1,921,363
1,921,366
116— 54: 1,921,340
119— 4: 1,921,945
68.2: 1,922,006
70: 1,921,010
92— 3: 1,921,789
6: 1,921,966
9: 1,921,539
11: 1,921,540
13: 1,921,371
20: 1,921,620
25: 1,921,730
40: 1,921,649
1,921,757
41: 1,921,504
43: 1,921,524
50: 1,921,217
93— 2: 1,921,372
5: 1,921,179
52: 1,921,289
94: 1,921,514
94— 4: 1,921,822
8: 1,921,061
30: 1,921,185
44: 1,921,088
95— 2: 1,921,050
5: 1,921,960
8: 1,921,545
31: 1,921,589
1,921,560
44: 1,921,808
59: 1,921,541
90.5: 1,921,012
94: 1,921,404
96— 6: 1,921,174
97— 40: 1,921,383
66: 1,921,973
77: 1,921,489
98— 33: 1,921,900
41: 1,921,457
1,921,565
98: 1,920,903
219: 1,921,443
272: 1,921,340
416: 1,921,312
102— 6: 1,921,220
103— 57: 1,921,916
99: 1,921,720
120: 1,921,747
219: 1,921,647
277: 1,921,444
104— 28: 1,921,305
60: 1,921,109
105— 130: 1,920,997
278: 1,921,917
106— 22: 1,922,007
107— 12: 1,921,393
88: 1,921,160
108— 5: 1,921,103
6.4: 1,921,923
140— 8: 1,921,319
1,921,324
10: 1,921,304
16: 1,921,308
109— 3: 1,921,923
110— 36: 1,921,994
45: 1,921,288
98: 1,921,949
111— 73: 1,921,985
1,921,988
112— 35: 1,920,998
38: 1,921,397
61: 1,921,277
263: 1,921,991
113— 14: 1,921,977
44: 1,921,188
49: 1,921,994
60: 1,921,908
120: 1,921,247
116— 54: 1,921,340
119— 4: 1,921,945
31: 1,921,352
91: 1,921,064
120— 93: 1,920,987
108: 1,921,270
121— 20: 1,921,753
22: 1,921,341
27: 1,921,344
56: 1,921,923
58: 1,921,022
194: 1,921,178
122— 20: 1,921,736
26: 1,921,578
146.5: 1,921,974
156: 1,921,104
310: 1,921,517
308: 1,921,630
451.2: 1,921,498
462: 1,921,630
504.3: 1,921,694
123— 16: 1,921,782
23: 1,921,132
33: 1,921,510
41: 1,921,816
55: 1,921,985
171: 1,921,042
124— 14: 1,921,017
126— 12: 1,921,697
126— 58: 1,921,300
90: 1,921,822
93: 1,921,702
116: 1,921,940
271.2: 1,921,921
300: 1,921,698
129— 88: 1,921,957
218: 1,921,694
232: 1,921,618
175: 1,921,986
146— 1: 1,921,694
8: 1,921,695
12: 1,920,995
16: 1,921,126
19: 1,921,297
21.1: 1,921,699
152— 1: 1,921,546
12: 1,921,772
14: 1,921,192
20: 1,921,231
139— 1: 1,921,809
22: 1,921,210
42: 1,921,210
54: 1,921,327

153— 64: 1,921,660
69: 1,921,125
78: 1,921,195
82: 1,921,810
154— 2: 1,921,819
9: 1,921,579
10: 1,921,472
1,921,894
14: 1,921,474
1,921,622
155— 7: 1,921,325
1,921,622
14: 1,921,224
67: 1,921,460
116: 1,921,932
157: R. 18,913
197: 1,921,143
156— 15: 1,921,813
158— 1.5: 1,921,937
4: 1,921,798
7: 1,921,152
27.4: 1,920,965
28: 1,921,196
36.1: 1,921,922
83: 1,921,666
115: 1,921,778
120: 1,921,761
161— 1: 1,921,741
7: 1,920,973
1,921,740
16: 1,921,173
164— 48: 1,920,909
60: 1,921,240
63: 1,921,075
99: 1,921,056
115: 1,921,408
166— 1: 1,921,472
16: 1,921,115
21: 1,921,358
167— 3: R. 18,915
37: 1,921,364
1,921,926
43: 1,921,188
53: 1,921,722
58: 1,921,424
91: 1,921,676
168— 14: 1,921,891
169— 4: 1,921,720
11: 1,921,411
1,921,831
26: 1,921,452
170— 151: 1,921,534
162: 1,921,931
163: 1,921,942
165: 1,921,883
171— 97: 1,921,461
1,921,786
1,921,789
118: 1,921,677
119: 1,921,713
1,921,726
206: 1,921,112
209: 1,921,427
242: 1,921,703
252: 1,921,140
314: 1,921,608
1,921,841
327: 1,921,432
1,921,433
172— 36: 1,921,111
1,921,845
179: 1,921,982
237: 1,921,718
1,921,723
239: 1,921,983
279: 1,921,127
1,921,204
281: 1,921,787
289: 1,921,770
173— 250: 1,921,169
1,921,840
266: 1,921,606
269: 1,921,745
1,921,823
314: 1,920,973
343: 1,921,096
361: 1,921,447

175— 41: 1,921,086
91: 1,921,009
183: 1,921,746
1,921,869
1,922,019
294: 1,921,830
350: 1,921,667
363: 1,921,704
176— 122: 1,921,620
177— 286: 1,921,099
311.5: 1,921,833
314: 1,921,024
320: 1,921,149
1,921,290
337: 1,921,359
339: 1,921,423
178— 2: 1,921,079
4.1: 1,921,799
1,921,990
6: 1,921,464
44: 1,921,526
1,921,035
1,921,063
45: 1,921,431
63: 1,921,022
1,921,796
17.5: 1,921,407
179— 1: 1,921,961
5: 1,921,615
6.3: 1,921,071
1,921,072
6.31: 1,921,733
42: 1,921,409
100.3: 1,921,037
1,921,483
1,921,574
1,921,852
100.4: 1,921,742
115.5: 1,921,924
170: 1,921,425
171: 1,921,088
1,921,640
180— 22: 1,921,660
54: 1,921,588
183— 2.6: 1,921,725
17: 1,921,783
37: 1,921,085
82: 1,922,013
184— 6: 1,921,266
1,921,670
1,921,769
28: 1,921,219
185— 37: 1,921,265
187— 20: 1,921,679
95: 1,921,351
188— 10: 1,921,146
56: 1,921,390
65: 1,921,627
79.5: 1,921,267
88: 1,921,121
89: 1,921,025
108: 1,921,156
1,921,393
112: 1,921,161
130: 1,921,951
152: 1,921,590
163: R. 18,912
205: 1,921,028
258: 1,921,835
1,921,837
1,921,838
189— 46: 1,921,422
1,921,644
72: 1,922,009
73: 1,922,010
1,922,011
75: 1,921,040
76: 1,921,396
190— 41: 1,921,110
192— 1: 1,921,693
12: 1,921,554
57: 1,921,048
66: 1,921,315
148: 1,921,264
194— 2: 1,921,610
6: 1,921,775
61: 1,920,958
100: 1,921,660
101: 1,921,031
103: 1,921,611
195— 20: 1,921,991
196— 4: 1,921,751

196— 17: 1,921,860
41: 1,921,116
48: 1,921,246
53: 1,921,477
1,921,478
110: 1,921,603
118: 1,921,602
123: 1,921,850
197— 4: 1,921,327
6.2: 1,921,571
17: 1,921,159
32: 1,921,490
198— 30: 1,921,580
85: 1,921,577
130: 1,921,205
163: 1,920,961
226: 1,921,771
232: 1,921,442
200— 4: 1,920,968
46: 1,921,113
52: 1,921,517
59: 1,921,273
65: 1,921,765
67: 1,922,012
68: 1,921,766
81: 1,921,126
83: 1,921,795
103: 1,921,272
104: 1,921,430
114: 1,921,419
116: 1,921,005
119: 1,921,392
120: 1,921,006
201— 48: 1,921,550
56: 1,921,441
202— 30: 1,921,300
40: 1,921,157
118: 1,921,908
204— 1: 1,921,492
1,921,575
1,921,941
2: 1,920,964
19: 1,921,376
1,921,377
206— 31: 1,921,876
41.4: 1,921,354
46: 1,921,015
1,921,724
56: 1,921,944
208— 75: 1,921,029
179: 1,921,018
209— 6: 1,921,306
97: 1,921,621
111: 1,921,862
1,921,863
326: 1,920,972
210— 51: 1,921,089
60: 1,921,279
62: 1,921,446
66: 1,921,005
69: 1,921,296
204: 1,921,309
211— 41: 1,921,656
213— 4: 1,921,382
36: 1,921,045
38: 1,921,046
61: 1,921,606
67: 1,921,011
214— 1: 1,921,389
6: 1,921,228
17: 1,921,205
38: 1,921,605
65: 1,921,233
83: 1,921,959
89: 1,921,479
12: 1,921,962
215— 27: 1,921,939
216— 1: 1,921,768
217— 8: 1,921,528
1,921,572
10: 1,921,227
1,921,242
19: 1,921,047
1,921,543
35: 1,921,790
46: 1,921,343
220— 22: 1,921,414
26: 1,921,577
27: 1,921,016
37: 1,921,870
40: 1,921,909
42: 1,921,662

220— 44: 1,921,943
46: 1,921,555
66: 1,921,241
221— 47.1: 1,921,118
78: 1,921,912
145: 1,921,062
223— 33: 1,921,450
224— 29: 1,921,304
226— 105: 1,921,244
228— 6: 1,921,853
229— 1.5: 1,920,995
37: 1,921,150
41: 1,921,946
47: 1,921,739
230— 4: 1,920,963
117: 1,921,218
120: 1,921,153
125: 1,920,993
233— 20: 1,921,181
235— 22: 1,921,800
75: 1,921,520
90: 1,921,673
92: 1,921,412
1,921,453
1,921,454
236— 9: 1,921,708
15: 1,921,385
16: 1,921,667
47: 1,921,154
64: 1,921,915
74: 1,921,172
238— 321: 1,921,716
240— 2: 1,921,230
10: 1,921,614
10.65: 1,921,171
11.3: 1,921,069
48.6: 1,920,992
61.13: 1,921,784
1,921,785
73: 1,921,875
102: 1,921,295
241— 2: 1,921,851
14: 1,921,826
242— 56: 1,920,967
76: 1,921,405
77: 1,921,288
107: 1,921,438
1,921,439
128: 1,920,962
243— 23: 1,921,391
244— 2: 1,921,992
12: 1,921,636
14: 1,921,428
18: 1,921,043
19: 1,921,805
1,921,839
29: 1,921,294
246— 34: 1,921,786
247— 18: 1,921,162
19: 1,921,057
1,921,170
21: 1,921,151
31: 1,921,056
248— 1: 1,921,310
11.5: 1,921,208
12: 1,921,222
16: 1,921,829
36: 1,921,797
250— 8: 1,921,858
1,921,859
11: 1,921,234
14: 1,922,008
17: 1,921,168
20: 1,921,057
1,921,226
27.5: 1,921,004
1,921,061
1,921,065
1,921,066
1,921,067
1,921,130
1,921,619
1,921,534
34: 1,921,084
1,921,499
36: 1,921,448
1,921,476
1,921,501
1,921,844
39: 1,921,117
41.5: 1,921,000

251— 101: 1,921,846
252— 1: 1,921,546
1,921,960
3: 1,921,297
6: 1,922,006
253— 30: 1,922,017
56: 1,921,903
254— 104: 1,921,542
130.1: 1,920,989
255— 22: 1,921,812
41: 1,921,303
42: 1,921,638
71: 1,921,216
1,921,700
1,921,701
1,921,702
74: 1,921,185
256— 13.1: 1,921,129
257— 2: 1,921,232
36: 1,921,243
126: 1,921,278
137: 1,921,466
180: 1,922,014
206: 1,921,808
224: 1,921,968
226: 1,921,807
252: 1,921,927
259— 131: 1,921,342
260— 2: 1,921,326
3: 1,921,293
6: 1,921,867
8: 1,920,980
1,921,756
9: 1,921,308
11: 1,921,091
1,921,330
1,921,638
1,921,857
12: 1,921,336
1,921,337
1,921,586
42: 1,921,497
44: 1,921,360
54: 1,921,378
59: 1,921,456
61: 1,921,496
68: 1,921,334
84: 1,921,361
92: 1,921,338
95: 1,921,362
102: 1,921,949
112: 1,921,101
1,921,634
113: 1,921,717
123: 1,921,767
126: 1,921,076
1,921,587
130.5: 1,921,120
154: 1,921,373
1,921,737
156: 1,921,381
1,921,776
165: 1,921,879
167: 1,921,138
261— 28: 1,921,805
41: 1,921,142
64: 1,921,736
93: 1,921,220
263— 6: 1,921,592
1,921,956
17: 1,921,507
50: 1,921,763
264— 11: 1,921,710
265— 2: 1,921,624
45: 1,921,986
49: 1,921,436
53: 1,921,979
69: 1,921,848
266— 23: 1,921,987
1,921,988
267— 47: 1,921,001
54: 1,921,582
1,921,665
268— 50: 1,922,415
271— 2.2: 1,921,487
2.4: 1,921,626
50: 1,921,167
272— 66: 1,921,664
273— 85: 1,921,844
51: 1,921,734
61: 1,921,105

273— 80: 1,921,068
1,921,930
125: 1,921,186
274— 43: 1,921,954
1,921,963
1,921,964
45: 1,921,989
276— 40: 1,921,410
277— 14: 1,921,092
19: 1,921,380
23: 1,921,260
53: 1,921,779
66: 1,921,827
279— 75: 1,921,695
93: 1,921,694
280— 37: 1,921,661
53.1: 1,921,260
53.44: 1,921,581
43: 1,921,420
51: 1,921,251
80: 1,921,507
87.5: 1,921,818
98: 1,921,141
282— 35: 1,921,332
285— 28: 1,921,259
53: 1,921,207
1,921,482
86: 1,921,709
96: 1,921,136
132: 1,921,400
163: 1,921,094
1,921,533
193: 1,921,809
1,921,978
287— 20: 1,921,421
52.08: 1,921,866
290— 1: 1,921,030
4: 1,921,905
37: 1,920,996
50: 1,921,719
292— 43: 1,920,975
57: 1,920,976
104: 1,921,189
241: 1,921,051
344: 1,921,586
293— 55: 1,921,653
296— 28: 1,921,284
44: 1,921,552
44.5: 1,921,484
1,921,601
84: 1,921,260
1,921,262
88: 1,921,263
92: 1,921,281
94: 1,921,976
99: 1,921,308
297— 8: 1,921,312
298— 21: 1,921,556
23: 1,921,291
299— 24: 1,921,821
67: 1,921,020
78: 1,921,938
107.2: 1,921,983
116: 1,921,923
140: 1,921,089
301— 11: 1,921,131
12: 1,921,475
33: 1,921,345
304— 2: 1,921,031
24: 1,921,401
305— 12: 1,921,537
308— 20: 1,921,445
28: 1,921,894
34: 1,921,239
47: 1,922,015
1,922,016
73: 1,921,957
1,921,958
86: 1,921,330
120: 1,921,556
176: 1,921,842
179: 1,921,488
189: 1,921,882
1,921,883
224: 1,921,894
1,921,913
267: 1,921,041
309— 11: 1,921,843
12: 1,921,420
312— 177: 1,921,828
191: 1,921,852

U. S. GOVERNMENT PRINTING OFFICE: 1933

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Accles & Pollock Ltd., Oldbury, near Birmingham, England. Golf clubs, irons, and balls, etc. Serial No. 338,594; Aug. 15. Class 22.

Aktien Gesellschaft für Pharmaceutische Produkte, Lucerne, Switzerland. Pharmaceutical preparation. Serial No. 333,697; Aug. 15. Class 6.

Alberhill Coal & Clay Co., South Pasadena, Calif. Prepared clay. Serial No. 339,378; Aug. 15. Class 1.

Alperin Strauss Co., Inc., New York, N. Y. Shirts. Serial No. 326,277; Aug. 15. Class 39.

American Paper Goods Company, The, Montclair, N. J., and Kensington, Berlin, Conn. Paper bags and drinking cups. Serial No. 339,513; Aug. 15. Class 2.

American Platinum Works, Newark, N. J. Dental alloy. Serial No. 336,897; Aug. 15. Class 44.

American Tissue Mills, Holyoke, Mass. Laminated papers. Serial No. 339,092; Aug. 15. Class 37.

Arctic Bear Laboratories, Inc., New York, N. Y. Shaving cream. Serial No. 338,898; Aug. 15. Class 4.

Atkins & Durbrow, Inc., New York, N. Y. Peat moss. Serial 338,477; Aug. 15. Class 1.

Atlantic Leather Corporation, Boston, Mass. Leather insoles. Serial No. 333,176; Aug. 15. Class 39.

Atlantic Refining Co., The, Philadelphia, Pa. Liquid dry cleaner. Serial No. 296,999; Aug. 15. Class 4.

Atlantic Refining Co., The, Philadelphia, Pa. Liquid dry cleaner. Serial No. 297,046; Aug. 15. Class 4.

B. V. D. Company, Inc., The, Baltimore, Md. Bed sheets, pillow cases, and piece goods. Serial No. 338,713; Aug. 15. Class 42.

B. V. D. Company, Inc., The, Baltimore, Md. Shirts, pajamas, and underwear. Serial No. 338,714; Aug. 15. Class 39.

Balsa Wood Company, Inc., The, Brooklyn, N. Y. Swimming belts, life preservers, swimming boards, etc. Serial No. 338,478; Aug. 15. Class 22.

Baltimore Salvage Company, Baltimore, Md. Paints, varnishes, and shellacs. Serial No. 339,093; Aug. 15. Class 16.

Beacon Manufacturing Company, New Bedford, Mass. Blankets. Serial No. 323,219; Aug. 15. Class 42.

Bell Company, Inc., The, Chicago, Ill. Preparation for cleaning windows, mirrors, glassware, etc. Serial No. 339,446; Aug. 15. Class 4.

Berkshire Knitting Mills, Reading, Pa. Hosiery. Serial No. 339,299; Aug. 15. Class 39.

Berry, Albert L., Leather Company, Boston, Mass. Innersoles and outersoles of leather. Serial No. 337,991; Aug. 15. Class 39.

Berry Bros. & Co., London, England. Scotch whisky. Serial No. 338,553; Aug. 15. Class 49.

Bes-Cone Company, The, Baltimore, Md. Ice-cream cones. Serial No. 338,942; Aug. 15. Class 46.

Blacher, Sampson, doing business as Sampson Chemical Co., Chicago, Ill. White shoe dressing. Serial No. 335,707; Aug. 15. Class 4.

Black Flag Company, The, Baltimore, Md. Hand sprays for insecticides. Serial No. 339,384; Aug. 15. Class 28.

Bob-O-Lite Manufacturing Company, Newton, Kans. Fishing floats. Serial No. 339,448; Aug. 15. Class 22.

Bodner & Sofranski, Inc., New York, N. Y. Hats. Serial No. 325,421; Aug. 15. Class 39.

Brockway Sales Company, Brockway, Pa. Bottle closures. Serial No. 339,449; Aug. 15. Class 50.

Browder, D. H., Son, & Co., Arcadia, Fla. Fresh citrus fruits. Serial No. 339,249; Aug. 15. Class 46.

Burke Golf Company, The, Newark, Ohio. Golf balls and bags. Serial No. 329,596; Aug. 15. Class 22.

Burnett's, Inc., Newark, N. J. Cod liver oil bird food, parrot tonic, bird wash, etc. Serial No. 337,944; Aug. 15. Class 6.

Cardinale Macaroni Mfg. Co., Inc., Brooklyn, N. Y. Macaroni. Serial No. 338,401; Aug. 15. Class 46.

Celanese Corporation of America, New York, N. Y. Fabrics. Serial No. 339,254; Aug. 15. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics of cellulose derivatives. Serial No. 339,255; Aug. 15. Class 42.

Chase Investment Company, Sanford, Fla. Fresh citrus fruits. Serial No. 337,830; Aug. 15. Class 46.

Chaubeau, Victor J., Chartres, France. Orthopedic belts and bandages. Serial No. 338,647; Aug. 15. Class 44.

Coffin-Redington Company, San Francisco, Calif. Wines. Serial No. 339,578; Aug. 15. Class 47.

Colgate-Palmolive-Peet Company, Chicago, Ill. Soap. Serial No. 331,852; Aug. 15. Class 4.

Colonial Provision Co., Inc., Boston, Mass. Hams, shoulders, etc. Serial Nos. 328,323–4; Aug. 15. Class 46.

Commercial Solvents Corporation, New York, N. Y. Ethyl alcohol and grain alcohol. Serial No. 339,182; Aug. 15. Class 49.

Construmenta Limited, London, England. Microscopes, magnifying glasses, and projectors, and parts thereof. Serial No. 334,488; Aug. 15. Class 26.

Cook, F. W., Company, Evansville, Ind. Malt beverages, Fermented. Serial No. 339,582; Aug. 15. Class 48.

Corley, B. L., San Francisco, Calif. Tooth powder and antiseptic solution. Serial No. 337,776; Aug. 15. Class 6.

Crown Ribbon & Carbon Mfg. Co., Rochester, N. Y. Carbon paper. Serial No. 337,840; Aug. 15. Class 11.

Curtis Shoe Company, Inc., Marlboro, Mass. Boots and shoes. Serial No. 338,648; Aug. 15. Class 39.

Del Ray Corporation, San Francisco, Calif. Food flavoring sauces. Serial No. 323,890; Aug. 15. Class 46.

Derris, Inc., New York, N. Y. Insecticides Serial No. 338,364; Aug. 15. Class 6.

Donahoe's Inc., Pittsburgh, Pa. Solidified gases used as refrigerants. Serial No. 328,266; Aug. 15. Class 6.

Dunbar-Gibson, Incorporated, New York, N. Y. Curtain stretchers. Serial No. 339,389; Aug. 15. Class 23.

Dunn and McCarthy, Inc., Auburn, N. Y. Shoes. Serial No. 338,405; Aug. 15. Class 39.

Dwight Edwards Company, San Francisco, Calif. Coffee. Serial No. 339,264; Aug. 15. Class 46.

Ellett, J. L., Philadelphia, Pa. Shampoos and creams. Serial No. 338,690; Aug. 15. Class 6.

Em-Kay Manufacturing Co. (See Kahn, M.)

Enro Shirt Company, Inc., The, Louisville, Ky. Shirts, underwear, and pajamas. Serial No. 338,407; Aug. 15. Class 39.

Essex Rubber Company, Trenton, N. J. Shoe soles. Serial No. 338,638; Aug. 15. Class 39.

Eta Company, The, Chicago, Ill. Concentrated food sodium, food potassium, food magnesium, etc. Serial No. 338,138; Aug. 15. Class 6.

Facho Cap Company, Dallas, Tex. Children's caps and berets. Serial No. 338,393; Aug. 15. Class 39.

Fantom Grip Company, The, New York, N. Y. Hosiery grip. Serial No. 338,819; Aug. 15. Class 40.

Feder Gregg Shoe Company, The, Cincinnati, Ohio. Ladies' shoes. Serial No. 339 068; Aug. 15. Class 39.

Flintkote Corporation, The, New York, N. Y. Composition asphalt shingles. Serial Nos. 339,269–71; Aug. 15. Class 12.

Fruit Industries, Ltd., Los Angeles, Calif. Wines. Serial No. 339,579; Aug. 15. Class 47.

Gasson, John P., Verrailles, Ohio. White Leghorn baby chicks. Serial No. 333,286; Aug. 15. Class 46.

Geigy Company, Inc., New York, N. Y. Dyestuffs, lakes, and chemical products. Serial No. 338,868; Aug. 15. Class 6.

Gimbel Brothers, Inc., New York, N. Y. Sheets and pillow cases, towels, wash cloths, etc. Serial No. 338,285; Aug. 15. Class 42.

Glass, Henry, & Co., New York, N. Y. Piece goods. Serial No. 338,821; Aug. 15. Class 42.

Gokey Company. (See Thompson, Horace.)

Goldsmith Bros., New York, N. Y. Hosiery. Serial No. 339,071; Aug. 15. Class 39.

Golfing, Inc., Chicago, Ill. Periodical. Serial No. 338,811; Aug. 15. Class 38.

Gordon Baking Company, Detroit, Mich. Bread. Serial No. 338,777; Aug. 15. Class 46.

Gottesman and Company, Incorporated, New York, N. Y. Wood pulp. Serial Nos. 339,494–6; Aug. 15. Class 1.

Grand Rapids Furniture Makers Guild, Grand Rapids, Mich. Furniture merchandising periodical. Serial No. 333,585; Aug. 15. Class 38.

Gregory-Robinson-Speas, Inc., Rogers, Ark. Vinegars. Serial No. 324,039; Aug. 15. Class 46.

Greven, Florence M., Reserve, La. Puzzles and puzzle pictures. Serial No. 339,627; Aug. 15. Class 22.

Griffin, Edward O., jr., doing business as Griffin Specialty Sales Co., Hollywood, Calif. Glass reflectors. Serial No. 339,229; Aug. 15. Class 38.

Harvard Brewing Co., Lowell, Mass. Malt beverages. Serial No. 339,521; Aug. 15. Class 48.

Hector, Robert, Berkeley, Calif. Blood tonic capsules. Serial No. 338,222; Aug. 15. Class 6.

Hercules Motors Corporation, Canton, Ohio. Internal combustion engines, power units and accessories. Serial No. 315,687; Aug. 15. Class 28.

Hoak, Percy E., Des Moines, Iowa. Wooden culvert. Serial No. 338,316; Aug. 15. Class 12.

Hunt, C. Howard, Pen Company, Camden, N. J. Text books. Serial No. 328,529; Aug. 15. Class 38.

Hurty-Peck Company, Indianapolis, Ind. Flavored milk and flavoring syrup. Serial No. 339,435; Aug. 15. Class 46.

Hydrox Corporation, Chicago, Ill. Ice-cream cones and frozen confections. Serial No. 337,675; Aug. 15. Class 46.

Ideal Food Products Co. Inc., Omaha, Nebr. Hops. Serial No. 339,497; Aug. 15. Class 1.

Iron City Wiping Materials Co. Inc., Pittsburgh, Pa. Insecticides. Serial No. 338,871; Aug. 15. Class 6.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Jaburg Brothers, Inc., New York, N. Y. Cigarettes, cigars, tobacco. Serial No. 339,191; Aug. 15. Class 17.
Jay Gee Hat Co., Inc., New York, N. Y. Ladies' hats. Serial No. 338,568; Aug. 15. Class 39.
Johansen, Edward H., Washington, D. C. Gasoline and lubricating oil. Serial Nos. 339,076–7; Aug. 15. Class 15.
Kahn, M., doing business as Em-Kay Manufacturing Co., Chicago, Ill. Auto door bumpers. Serial No. 338,780; Aug. 15. Class 19.
Kates-Boylston Publications, Inc., New York, N. Y. Periodical. Serial No. 338,608; Aug. 15. Class 38.
Knight Products Co., Baltimore, Md. Baby feeders and teething nipples. Serial No. 339,400; Aug. 15. Class 44.
Kops Brothers, Inc., New York, N. Y. Toy balloons. Serial No. 339,728; Aug. 15. Class 22.
Kraft-Phenix Cheese Corporation, Chicago, Ill. Casein precipitating agent. Serial No. 338,782; Aug. 15. Class 46.
Lansburgh & Bro., doing business as Lansburgh's, Washington, D. C. Hosiery. Serial No. 339,402; Aug. 15. Class 39.
Lavrat, Marie L. P., Paris, France. Radioactive ampoules. Serial No. 338,375; Aug. 15. Class 6.
Leschen, A., & Sons, Rope Company, St. Louis, Mo. Wire rope lubricants. Serial No. 335,726; Aug. 15. Class 15.
Lewis, Charles H., New York, N. Y. Disinfectants, insecticides, bactericides, etc. Serial No. 334,465; Aug. 15. Class 6.
Libby, McNeill & Libby, Chicago, Ill. Canned peas. Serial No. 338,092; Aug. 15. Class 46.
Loeser, Frederick, & Co., Inc., Brooklyn, N. Y. Hosiery. Serial No. 339,357; Aug. 15. Class 39.
Lubin-Weeker Co. Inc., New York, N. Y. Pajamas. Serial No. 333,262; Aug. 15. Class 39.
Lysaght Protected Steel Co., Ltd., Bristol, England. Sheet metal roof ventilators. Serial No. 339,275; Aug. 15. Class 34.
Maltosia Products Co., Inc., Buffalo, N. Y. Liquid malt. Serial No. 321,075; Aug. 15. Class 46.
March of the Years, Inc., New York, N. Y. Series of motion-picture films. Serial No. 338,157; Aug. 15. Class 26.
McVey, James, Ltd., Glasgow, Scotland. Whisky. Serial No. 336,947; Aug. 15. Class 49.
Meier & Frank Co., Portland, Oreg. Wearing apparel. Serial No. 338,100; Aug. 15. Class 39.
Merrill, Harry A., Glendale, Calif. Bubble solutions and bubble blowers. Serial No. 338,786; Aug. 15. Class 22.
Mewing, Walter, Los Angeles, Calif. Fresh fruits and vegetables. Serial No. 339,194; Aug. 15. Class 46.
Modern Food Process Company, Philadelphia, Pa. Ham. Serial No. 339,360; Aug. 15. Class 46.
Mon Docteur Importing Co., Inc., Middlefield, Conn. Vaginal syringes and douche bags. Serial No. 338,421; Aug. 15. Class 44.
Motor Fuel Company, Habana, Cuba. Liquid motor fuel. Serial No. 337,642; Aug. 15. Class 15.
National Furniture & Bedding Co. The, Leavenworth, Kans. Mattresses. Serial No. 337,616; Aug. 15. Class 32.
National Oil Products Company, Inc., Harrison, N. J. Monoatomic alcohols and their esters. Serial No. 338,904; Aug. 15. Class 6.
National Pigments & Chemical Company, St. Louis, Mo. Barytes. Serial No. 332,925; Aug. 15. Class 1.
Natural Sugars Inc., Brooklyn, N. Y. Pancake syrup. Serial No. 337,481; Aug. 15. Class 46.
Natural Sugars Inc., Brooklyn, N. Y. Liquid flavoring for foods. Serial No. 337,482; Aug. 15. Class 46.
Newman, I., & Sons, Inc., New Haven, Conn., and New York, N. Y. Foundation garments and brassières. Serial No. 338,825; Aug. 15. Class 39.
Nitrate Agencies Company, New York, N. Y. Fertilizers. Serial Nos. 335,807–8; Aug. 15. Class 10.
North American Brewing Company, Brooklyn, N. Y. Tonic. Serial No. 338,103; Aug. 15. Class 6.
North Bro's M'f'g Co., Philadelphia, Pa. Beverage coolers. Serial No. 339,162; Aug. 15. Class 31.
Norwalk Tire & Rubber Company, Inc., The, Norwalk, Conn. Batteries. Serial No. 337,754; Aug. 15. Class 21.
O'Brien, Clarence A., Washington, D. C. Periodical publication. Serial No. 339,569; Aug. 15. Class 38.
Oliver, Osmer F., doing business as Tri-Dermis Company, Akron, Ohio. Skin creams. Serial No. 338,875; Aug. 15. Class 6.
Onondaga Silk Company, Inc., Syracuse, and New York, N. Y. Silk fabrics in the piece. Serial Nos. 338,462–3; Aug. 15. Class 42.
Orvag Aktiengesellschaft, Zurich, Switzerland. Phonographs, sound boxes, diaphragms, etc. Serial No. 335,072; Aug. 15. Class 36.
Paragon Laboratories, Inc., Newark, N. J. 17 volume hydrogen peroxide. Serial No. 336,095; Aug. 15. Class 6.
Permatex Company, Inc., Brooklyn, N. Y. Polishes. Serial No. 336,228; Aug. 15. Class 16.
Philippi, Edward H., Chicago, Ill. Advertising devices. Serial No. 339,163; Aug. 15. Class 27.
Piver, L. T., Inc., Wilmington, Del., and New York, N. Y. Face powder. Serial No. 338,998; Aug. 15. Class 6.
Polarograph Laboratories of America, Berkeley, Calif. Electrical analyzing apparatus. Serial No. 338,537; Aug. 15. Class 26.
Pollak, Henry, Inc., New York, N. Y. Berets. Serial No. 338,939; Aug. 15. Class 39.
Pro-Phy-Lac-Tic Brush Company, Northampton, Mass. Hair brushes. Serial No. 339,406; Aug. 15. Class 29.
Quinby, W. S., Company, Boston, Mass. Tea and coffee. Serial No. 339,040; Aug. 15. Class 46.
Research Associates, New York, N. Y. Composition for preventing rugs from slipping. Serial No. 338,878; Aug. 15. Class 5.
Rheuma Company, The, Buffalo, N. Y. Treatment for rheumatic fever, muscular aches, etc. Serial No. 325,880; Aug. 15. Class 6.
Richey Shirt Manufacturing Corporation, New York, N. Y. Shirts. Serial No. 339,540; Aug. 15. Class 39.
Richmond Radiator Company, Incorporated, New York, N. Y. Heating radiators. Serial No. 339,041; Aug. 15. Class 34.
Riebeck'sche, A., Montanwerke Aktiengesellschaft, Halle (Saale), Germany. Hard waxes. Serial No. 335,645; Aug. 15. Class 6.
Roberts, Newell W., South Orange, N. J. Dry-cleaning fluid. Serial No. 338,338; Aug. 15. Class 4.
Robinson Canning Company, Siloam Springs, Ark. Canned vegetables and berries. Serial No. 338,292; Aug. 15. Class 46.
Romanoff Caviar Company, New York, N. Y. Caviar. Serial No. 338,757; Aug. 15. Class 46.
Rossie Velvet Company, Mystic, Conn. Pile fabrics. Serial Nos. 339,120–2; Aug. 15. Class 42.
Royal Bond, Inc., St. Louis, Mo. Funeral directors and embalmers supplies. Serial No. 338,502; Aug. 15. Class 6.
Ryan, Matthew W., Sons & Co., Inc., New York, N. Y. Cotton piece goods. Serial No. 339,043; Aug. 15. Class 42.
Sanitax Electric Company, New York, N. Y. Electro-surgical apparatus. Serial No. 338,796; Aug. 15. Class 44.
Scharf Bros. Co. Inc., New York, N. Y. Candy. Serial No. 338,879; Aug. 15. Class 46.
Scintilla Aktiengesellschaft, Solcure, Switzerland. Magnetos. Serial No. 337,444; Aug. 15. Class 21.
Sherbondy, William E., Cleveland, Ohio. Vanity cases, and rouge and powder therefor. Serial No. 338,583; Aug. 15. Class 6.
Sillcox, Herbert A., New York, N. Y. Radio receiving sets and tubes. Serial No. 337,656; Aug. 15. Class 21.
Simmons Hardware Company, St. Louis, Mo. Paints, varnishes, and paint enamels. Serial Nos. 336,694–5; Aug. 15. Class 16.
Société Secor, Paris, France. Toilet preparations. Serial No. 337,807; Aug. 15. Class 6.
Southern Drug Company, The, Jacksonville, Fla. Medicinal preparations. Serial No. 338,468; Aug. 15. Class 6.
Standard Fuel Engineering Company, Detroit, Mich. Brick and tile. Serial No. 335,078; Aug. 15. Class 12.
Stix-Altman-Weiner, Inc., Norwood, Ohio. Shoes. Serial No. 338,117; Aug. 15. Class 39.
Strong, Jos., & Co., Inc., Terre Haute, Ind. Baking powder. Serial No. 338,165; Aug. 15. Class 46.
Swann, Charles E., Chicago, Ill. Gauges. Serial No. 339,411; Aug. 15. Class 26.
Thompson, Horace, doing business as Gokey Company, St. Paul, Minn. Boots. Serial No. 338,380; Aug. 15. Class 39.
Thorp, J. R., & Co., Inc., New York, N. Y. Fabrics in the piece. Serial No. 331,809; Aug. 15. Class 42.
Threads, Incorporated, Gastonia and Arkray Village, N. C. Sewing thread. Serial No. 339,047; Aug. 15. Class 43.
Tide Water Oil Company, Tulsa, Okla. Gasoline and motor lubricating oils. Serial Nos. 338,167–8; Aug. 15. Class 15.
Trelles, M., & Company, New Orleans, La. Cigars, cheroots, cigarettes, etc. Serial No. 339,169; Aug. 15. Class 17.
Tri-Dermis Company. (See Oliver, Osmer F.)
Two Rivers Beverage Company, Two Rivers, Wis. Malt beverages. Serial No. 339,218; Aug. 15. Class 48.
Virginia Fruit Fumigation Company, West Norfolk, Va. Insecticide and fungicide mixture. Serial No. 338,881; Aug. 15. Class 6.
Vogt, F. G., & Sons, Incorporated, Philadelphia, Pa. Sausage. Serial No. 339,131; Aug. 15. Class 46.
Vetey & Myer, Hartsdale, N. Y. Toasted buns. Serial No. 337,655; Aug. 15. Class 46.
Wagner, August, & Sons Brewing Company, The, Columbus, Ohio. Malt beverages. Serial No. 338,799; Aug. 15. Class 48.
Webster, Fred E., San Antonio, Tex. Composition to be added to cement. Serial No. 338,706; Aug. 15. Class 12.
Wengi, Adolf, Louisville, Ky. Pies in chilled or frozen form. Serial No. 339,137; Aug. 15. Class 46.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Western Chemical Company, St. Joseph, Mo. Cleaner. Serial No. 337,494; Aug. 15. Class 4.
White, New Haven, Conn. Men's hats. Serial Nos. 338,958–60; Aug. 15. Class 39.
Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy. Serial No. 338,883; Aug. 15. Class 46.
Whyte & Mackey Ltd., Glasgow, Scotland. Whisky. Serial No. 335,658; Aug. 15. Class 49.
Windo-Shine Co., The, Bonner Springs, Kans. Liquid cleaning and polishing preparation. Serial No. 337,717; Aug. 15. Class 4.
Wolff-Tober Shoe Manufacturing Co., St. Louis, Mo. Shoes, pumps, and low quarters. Serial No. 338,845; Aug. 15. Class 39.
World Wide Gum Co., Boston, Mass. Chewing gum. Serial No. 338,884; Aug. 15. Class 46.
Wurlitzer, Rudolph, Company, The, Cincinnati, Ohio. Refrigerators and parts thereof, ice boxes, ice-cream freezers, etc. Serial No. 336,904; Aug. 15. Class 31.
Wyoming Brewing Company, Wilkes-Barre, Pa. Beer, ale and porter. Serial No. 339,621; Aug. 15. Class 48.
Zohn, John, New York, N. Y. Buttons and buckles. Serial No. 339,876; Aug. 15. Class 40.

LIST OF REGISTRANTS OF TRADE-MARKS

Adair, Montague, Brooklyn, N. Y. Air conditioning units. 305,320; Aug. 15; Serial No. 335,841; published May 30, 1933. Class 34.
Aeolian American Corporation, New York, N. Y. Grand pianos. 305,369; Aug. 15; Serial No. 336,066; published May 30, 1933. Class 36.
Allied Petroleum Corporation, Warren, Pa. Lubricating oils. 305,370; Aug. 15; Serial No. 336,105; published May 23, 1933. Class 15.
Alno Company, The. (See Northrup, Blanche M.)
Althen, William L., doing business as National Guaranty Credit Association, Kansas City, Mo. Printed form letters. 305,330; Aug. 15; Serial No. 335,182; published May 30, 1933. Class 38.
Altoona Malt Company, Altoona, Pa. Malt beverages. 305,314; Aug. 15; Serial No. 333,456; published May 30, 1933. Class 48.
American Home Trading System. (See Jorgensen, Carl.)
Atlas Oil Company, The, Cleveland, Ohio. Lubricating oil. 305,359; Aug. 15; Serial No. 335,628; published May 23, 1933. Class 15.
Auburn Spark Plug Company, Inc., Auburn, N. Y. Spark plugs. 305,472; Aug. 15; Serial No. 336,634; published May 30, 1933. Class 21.
Auto-Soler Company, The, Atlanta, Ga. Shoe machinery. 305,394; Aug. 15; Serial No. 332,829; published May 30, 1933. Class 28.
Babiglo Company. (See Fundler, Louis.)
Banner Oil Company, Camden, N. J. Lubricating oils. 305,502; Aug. 15; Serial No. 336,419; published May 23, 1933. Class 15.
Baroglas Products, Buffalo, N. Y. Polishing preparation for automobile bodies. 305,309; Aug. 15; Serial No. 333,943; published May 23, 1933. Class 16.
Barrett Manufacturing Company, assignor to The Barrett Company, New York, N. Y. Roofings. 93,325; renewed Sept. 9, 1933.
Batcheller, George C., & Co., New York, N. Y., to George C. Batcheller & Co., Inc., Bridgeport, Conn., successor. Corsets. 92,507; renewed July 18, 1933.
Bathglow Company. (See Davis, Irving L.)
Battle Creek Biscuit Company, Battle Creek, Mich. Cocoanut cookies. 305,451; Aug. 15; Serial No. 320,488; published May 30, 1933. Class 46.
Becton, Dickinson & Co., Rutherford, N. J. Hypodermic needles. 305,486; Aug. 15; Serial No. 336,316; published May 30, 1933. Class 44.
Bendel, Henri, Company, Paris, France. Perfumes and toilet waters. 305,396; Aug. 15; Serial No. 332,910; published May 16, 1933. Class 6.
Benn, Joseph, & Sons, Inc., to Joseph Benn Corporation, Greystone, R. I., and New York, N. Y., successor. Imitation Astrakhans. 94,050; renewed Nov. 4, 1933.
Bens, Geo., & Sons, St. Paul, Minn. Whiskey. 305,424; Aug 15; Serial No. 336,708; published May 30, 1933. Class 49.
Best Malt Products Company, Chicago, Ill. Malt syrup. 305,448; Aug. 15; Serial No. 322,624; published May 30, 1933. Class 46.
Beyerle, J. J., Mfg. Co., to Beyerle Manufacturing Co. Inc., New York, N. Y., successor. Armpit-shields. 94,586; renewed Dec. 26, 1931.
Bitowf, Charles J. (See Munk, Charlotte, assignor.)
Bode Drug Company, Inc., New Brunswick, N. J. Toilet preparations. 305,445; Aug. 15; Serial No. 325,315; published May 16, 1933. Class 6.
Boston Envelope Company, doing business as Boston Drinking Cup Company, Jamaica Plain, Boston, Mass. Paper drinking cups. 305,420–1; Aug. 15; Serial Nos. 336,748–9; published May 30, 1933. Class 2.
Boulder-Colorado Sanitarium, The. (See Colorado Sanitarium Food Company, The, assignor.)
Bronze Corporations, Inc., Newark, N. J. Conduits. 305,352; Aug. 15; Serial No. 335,808; published May 23, 1933. Class 21.
Brevolite Lacquer Company, North Chicago, Ill. Impervious film coatings. 305,457; Aug. 15; Serial No. 298,139; published Mar. 8, 1932. Class 16.
Buchanan Coal Company, to Old Ben Coal Corporation, Chicago, Ill., successor. Coal. 94,421; renewed Dec. 9, 1933.
Burger Bros. Company, The, doing business as The Zinzinnati Malt Company, Cincinnati, Ohio. Malt syrup for beverage making. 305,474; Aug. 15; Serial No. 336,598; published May 30, 1933. Class 46.
Canode, Fred B., doing business as Ink Specialties Co., Chicago, Ill. Hectograph materials. 305,334; Aug. 15; Serial No. 335,482; published May 23, 1933. Class 37.
Carras, Theodore L., doing business as The Motor Dew Company, New York, N. Y. Chemical detergent. 305,492; Aug. 15; Serial No. 336,340; published May 30, 1933. Class 6.
Castilian Products Corp., Los Angeles, Calif. Cream, henna rinse, hair remover, etc. 305,488; Aug. 15; Serial No. 336,263; published May 30, 1933. Class 6.
Chadwick, Howard W., doing business as The Vim-Lax Co., Schenectady, N. Y. Chewing gum laxative. 305,300; Aug. 15; Serial No. 334,597; published May 16, 1933. Class 6.
Chase-O Manufacturing Company, Camden, N. J., and Philadelphia, Pa., assignor, by mesne assignments, to J. L. Prescott Company, Passaic, N. J. Detergent preparation. 94,425; renewed Dec. 9, 1933.
Chicago Printed String Co., Chicago, Ill. Cordage. 305,447; Aug. 15; Serial No. 324,777; published May 30, 1933. Class 7.
Cloquet Creamery Co., Cloquet, Minn. Ice cream. 305,452; Aug. 15; Serial No. 319,473; published Mar. 1, 1932. Class 46.
Cobar Chemical Company, The, Massillon, Ohio. Plastic solder. 305,332; Aug. 15; Serial No. 335,272; published May 30, 1933. Class 5.
Cole Chemical Company, Wilmington, Del., and St. Louis, Mo. Tonic stimulants. 305,380; Aug. 15; Serial No. 336,085; published May 23, 1933. Class 6.
Colorado Sanitarium Food Company, The, assignor to The Boulder-Colorado Sanitarium, Boulder, Colo. Cereal breakfast food. 93,231; renewed Aug. 26, 1933.
Consumers-Peoples Products Co., Inc., New York and Brooklyn, N. Y. Dry yeast. 305,417; Aug. 15; Serial No. 331,075; published May 30, 1933. Class 46.
Continental Car-na-var Corporation, Brazil, Ind. Combination electric floor polisher, scrubber, sander, etc. 305,435; Aug. 15; Serial No. 336,704; published May 30, 1933. Class 21.
Coty, Inc., Wilmington, Del., and New York, N. Y. Perfume, toilet water, brilliantine, etc. 305,360; Aug. 15; Serial No. 335,548; published May 16, 1933. Class 6.
Creolin Co., The. (See Pearson's Antiseptic Company, Limited, assignor.)
Crosley Radio Corporation, The, Cincinnati, Ohio. Radio receiving sets. 305,456; Aug. 15; Serial No. 302,627; published May 30, 1933. Class 21.
Cudahy Packing Co., The, Chicago, Ill., and South Omaha, Nebr., assignor to The Cudahy Packing Company, Chicago, Ill. Meats. 41,778; renewed Dec. 29, 1933.
Daniels Manufacturing Company, Rhinelander, Wis. Paper napkins and paper towels. 305,371; Aug. 15; Serial No. 336,112; published May 23, 1933. Class 37.
Davis, Irving L., doing business as Bathglow Company, New York, N. Y. Lotion, astringent, shampoo. 305,483; Aug. 15; Serial No. 336,177; published May 23, 1933. Class 6.
Deisel-Wemmer Gilbert Corp., The, Detroit, Mich. Cigars. 305,407; Aug. 15; Serial No. 336,933; published May 30, 1933. Class 17.
Detroiter Battery and Radio Company. (See Nelson, Herbert L.)
Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. 94,719; renewed Dec. 30, 1933.
Dolge, C. B., Company, The, Westport, Conn. Preparation for exterminating rodents. 305,415; Aug. 15; Serial No. 330,622; published Nov. 22, 1932. Class 6.
D'Ormont Laboratories, Inc. (See Goldberg, Samuel.)
Dougherty, Ben M., doing business as San Antonio Chemical Company, San Antonio, Tex. Shaving cream. 305,490; Aug. 15; Serial No. 336,351; published May 30, 1933. Class 4.
Duart Manufacturing Co. Ltd., San Francisco, Calif. Permanent waving pads. 305,499; Aug. 15; Serial No. 336,427; published May 30, 1933. Class 44.

Eastern Outfitting Co. of Los Angeles, Calif., Los Angeles, Belvidere, Pasadena, and Huntington Park, Calif. Gas ranges. 305 362; Aug. 15; Serial No. 335,500; published May 30, 1933. Class 34.
Edison, Thomas A., Incorporated. West Orange, N. J. Electric motors. 305,381; Aug. 15; Serial No. 336,038; published May 23, 1933. Class 21.
Electro Chemical Processes Limited, London, England. Colloidal sulphur. 305,315; Aug. 15; Serial No. 333,461; published May 16, 1933. Class 6.
Emulso Corporation, Buffalo, N. Y. Preparation for restoring the original lustre of varnished and other surfaces. 305,412; Aug. 15; Serial No. 330,341; published May 23, 1933. Class 16.
Entertainment Publications Corporation, New York, N. Y. Magazine. 305,419; Aug. 15; Serial No. 336,758; published May 23, 1933. Class 38.
Epstein, Jacob, doing business as Gold Pharmacal Company, New York, N. Y. Whooping cough medicine. 305,480; Aug. 15; Serial No. 336,673; published May 30, 1933. Class 6.
Eundler, Louis, doing business as Babigio Company, New York, N. Y. Soap. 305,479; Aug. 15; Serial No. 326,255; published May 30, 1933. Class 4.
Exit Manufacturing Co. (See Frye, Augustus H.)
Fabrique Nationale de Lames de Rasoirs, Cravanche/Belfort, and Paris, France. Razor blades. 305,348; Aug. 15; Serial No. 334,957; published May 30, 1933. Class 23.
Fracy, Inc., assignor to Individual Cosmetics Corporation, New York, N. Y. Cosmetic. 305,455; Aug. 15; Serial No. 311,237; published May 16, 1933. Class 6.
Frye, Augustus H., doing business as Exit Manufacturing Co., Griffin, Ga. Medicine preparation. 305,327; Aug. 15; Serial No. 335,088; published May 23, 1933. Class 6.
Fuel-Tone, Inc., Rockville Center, N. Y. Fuel oil. 305,303; Aug. 15; Serial No. 334,391; published May 16, 1933. Class 6.
Fuld, Wm. A., doing business as William Fuld, Baltimore, Md. Electrically equipped game. 305,398; Aug. 15; Serial No. 336,821; published May 30, 1933. Class 22.
Gamewell Company, The, Newton, Mass. Electrical fire alarm equipment and attachments for causing response thereof to water flow in sprinkler systems. 305,390; Aug. 15; Serial No. 331,891; published May 23, 1933. Class 21.
Gamewell Company, The, Newton, Mass. Electrical fire alarm systems and parts thereof. 305,413; Aug. 15; Serial No. 330,476; published May 23, 1933. Class 21.
Garfield Tea Company, Brooklyn, N. Y. Herb tea. 305,329; Aug. 15; Serial No. 335,161; published May 16, 1933. Class 6.
Gelfman Grocery Co., Springfield, Mass., assignor, by mesne assignments, to The Great Atlantic & Pacific Tea Company, New York, N. Y. Tomato catsup, canned vegetables, salmon, etc. 94,908; renewed Jan. 13, 1934.
Gevaert Photo-Producten Naamloose Vennootschap (Photo-Produits Gevaert) Societe Anonyme, Oude-God, Belgium. Sensitized photographic papers, plates, films, etc. 305,304; Aug. 15; Serial No. 334,393; published May 30, 1933. Class 26.
Gimbel Brothers, Inc., New York, N. Y. Men's clothing and furnishings. 305,519; Aug. 15. Class 39.
Globe Crayon Company. (See Kamen, Abraham L.)
Gold Pharmacal Company. (See Epstein, Jacob.)
Goldberg, Samuel, doing business as D'Ormont Laboratories, Inc., Philadelphia, Pa. Medicine. 305,341; Aug. 15; Serial No. 335,671; published May 30, 1933. Class 6.
Golden Bear Coffee Co., Ltd., Los Angeles, Calif. Coffee and tea. 305,393; Aug. 15; Serial No. 332,527; published May 30, 1933. Class 46.
Golden Pride Laboratory, The, Laurel Springs, N. J. Hair stimulant and tonic. 305,400; Aug. 15; Serial No. 336,865; published May 30, 1933. Class 6.
Governor and Company of Adventurers of England Trading into Hudson's Bay, The, Winnipeg, Manitoba, Canada. Whisky. 94,444; renewed Dec. 9, 1933.
Grasselli Chemical Company, Cleveland, Ohio. Insecticidal compositions. 305,333; Aug. 15; Serial No. 335,417; published May 23, 1933. Class 6.
Great Atlantic & Pacific Tea Company, The. (See Gelfman Grocery Co., assignor.)
Greenspan, Harry I., New York, N. Y. Bath emulsion and lotion. 305,312; Aug. 15; Serial No. 333,552; published May 30, 1933. Class 6.
Griggs, Cooper & Co., doing business as Sanitary Food Mfg. Co., St. Paul, Minn. Writing paper. 305,477; Aug. 15; Serial No. 336,678; published May 30, 1933. Class 37.
Grigsby-Grunow Company Chicago Ill. Paint primers, lacquers, and finishing coats. 305,446; Aug. 15; Serial No. 325,168; published May 30, 1933. Class 16.
Hair Beauty Products Co. (See Kantar, Alexander.)
Hays Corporation, The, Michigan City, Ind. Oxygen absorbers. 305,494; Aug. 15; Serial No. 336,324; published May 30, 1933. Class 6.
Hercules Powder Company, Wilmington, Del. Insecticide preparation. 305,318; Aug. 15; Serial No. 335,822; published May 16, 1933. Class 6.
Hewitt Bros. Soap Company, The, doing business as Launette Products Co., Dayton, Ohio. Blueing. 305,385; Aug. 15; Serial No. 335,823; published May 16, 1933. Class 6.
Hexcel Radiator Company, Milwaukee, Wis. Air conditioners. 305,449; Aug. 15; Serial No. 321,683; published May 30, 1933. Class 34.
Hinze Ambrosia, Inc., New York, N. Y. Face powders. 305,361; Aug. 15; Serial No. 335,506; published May 16, 1933. Class 6.
Hitchins, Harry M., Minneapolis, Minn. Paper box liners and sheets. 305,414; Aug. 15; Serial No. 330,573; published May 23, 1933. Class 37.
Howard, Charles L., Chicago, Ill. Parlor game. 305,384; Aug. 15; Serial No. 335,825; published May 30, 1933. Class 22.
Imperial Oil & Gas Products Company, Pittsburgh, Pa. Carbon black used as a pigment. 305,521; Aug. 15. Class 16.
Individual Cosmetics Corporation. (See Fracy, Inc., assignor.)
Ink Specialties Co. (See Canode, Fred B.)
Intellect-A-Ray Corporation, Pasadena, Calif. Electric apparatus. 305,297; Aug. 15; Serial No. 334,681; published May 30, 1933. Class 21.
Iowa Soap Company, Burlington, Iowa. Soap. 305,402; Aug. 15; Serial No. 336,870; published May 30, 1933. Class 4.
Jackson, Harry C., New York, N. Y. Malt beverage. 305,493; Aug. 15; Serial No. 336,393; published May 30, 1933. Class 48.
Jacobs, Wellington K. (See Siebras, Norman W., assignor.)
Jacobson, Esther B., doing business as Jay Underwear Co., New York, N. Y. Ladies' underwear. 305,508; Aug. 15. Class 39.
James, Stephen F., Chicago, Ill. B battery eliminator. 305,386; Aug. 15; Serial No. 331,185; published May 23, 1933. Class 21.
Jamestown Brewing Company, Jamestown, N. Y. Malt beverages. 305,465; Aug. 15; Serial No. 336,534; published May 30, 1933. Class 48.
Jamieson, C. E., & Co., Detroit, Mich. Preparation for the treatment of intestinal autointoxication. 305,346; Aug. 15; Serial No. 335,027; published May 16, 1933. Class 6.
Jay Underwear Co. (See Jacobson, Esther B.)
Jelly, Walter H., & Co., Chicago, Ill. Beeswax. 305,500; Aug. 15; Serial No. 336,358; published May 30, 1933. Class 6.
Jorgensen, Carl, doing business as American Home Trading System, New York, N. Y. Trading stamps and coupons. 305,397; Aug. 15; Serial No. 336,828; published May 23, 1933. Class 38.
Kabushiki Kaisha Kotobukiya, Osaka, Japan. Whisky, gin, brandy, and rum. 305,350; Aug. 15; Serial No. 334,753; published May 30, 1933. Class 49.
Kalischer, Louis, Inc., Brooklyn, N. Y. Electrical wiring strip. 305,487; Aug. 15; Serial No. 336,221; published May 23, 1933. Class 21.
Kamen, Abraham L., doing business as Globe Crayon Company, Brooklyn, N. Y. Crayons. 305,497; Aug. 15; Serial No. 336,360; published May 30, 1933. Class 37.
Kantar, Alexander, doing business as Hair Beauty Products Co., Pittsburgh, Pa. Wave set powder. 305,342; Aug. 15; Serial No. 335,678; published May 16, 1933. Class 6.
Kay-Brunner Steel Products Inc., Alhambra, Calif. Iron castings. 305,296; Aug. 15; Serial No. 334,682; published May 30, 1933. Class 14.
Kellogg Company, Battle Creek, Mich. Shredded wheat biscuit. 305,505; Aug. 15. Class 46.
Kidde, Walter, & Company, Inc., New York, N. Y. Fire-detecting systems. 305,484; Aug. 15; Serial No. 336,184; published May 23, 1933. Class 21.
Kinney, Harry W., doing business as Scientific Sugars Company, Detroit, Mich. Carbohydrate syrup. 305,503; Aug. 15; Serial No. 335,237; published June 6, 1933. Class 46.
Knox Company, The, Kansas City, Mo. Laxative and diuretic medicinal tea. 305,358; Aug. 15; Serial No. 335,683; published May 16, 1933. Class 6.
Krick, Leonard B., doing business as Mador, Inc., Chicago, Ill. Maltless syrups. 305,513; Aug. 15. Class 45.
Kubetz, Samuel, doing business as The Sunland Soap Company, Los Angeles, Calif. Laundry soap. 305,481; Aug. 15; Serial No. 336,185; published May 30, 1933. Class 4.
Lady Lennox Company. (See Siebras, Norman W.)
Lando, Irving, doing business as Porcelac Company, Brooklyn, N. Y. Artificial teeth, porcelain inlays and bridges. 305,306; Aug. 15; Serial No. 334,285; published May 30, 1933. Class 44.
Lashtex Laboratories. (See Munk, Charlotte.)
Launette Products Co. (See Hewitt Bros. Soap Company, The.)
Leigh, Ethel T., doing business as The Traphagen Commercial Textile Studio, New York, N. Y. Artistic drawings for textile designs. 305,376; Aug. 15; Serial No. 335,909; published May 23, 1933. Class 38.
Lilly, Eli, and Company, Indianapolis, Ind. Special liver-stomach interaction product, iron ammonium citrate, green, and B vitamin concentrate. 305,354; Aug. 15; Serial No. 335,784; published May 16, 1933. Class 6.
Lincoln Engineering Company, St. Louis, Mo. Portable lubricant dispensing apparatus. 305,343; Aug. 15; Serial No. 335,727; published May 30, 1933. Class 23.

Los Angeles Soap Company, Los Angeles, Calif. Perfume. 305,319; Aug. 15; Serial No. 335,829; published May 23, 1933. Class 6.
Los Angeles Soap Company, Los Angeles, Calif. Radiator glycerine. 305,321; Aug. 15; Serial No. 335,869; published May 23, 1933. Class 6.
Lowe, Joe, Corporation, Brooklyn, N. Y. Stabilising compound for dough. 305,399; Aug. 15; Serial No. 336,881; published May 30, 1933. Class 46.
Lukis Brothers, Los Angeles, Calif. Fresh fruit confections and candy. 305,299; Aug. 15; Serial No. 334,644; published May 30, 1933. Class 46.
Lumbleau, Walter J., Alhambra, Calif. Toy building blocks. 305,518; Aug. 15. Class 22.
M & G Company, Henryetta, Okla. Laxative cough syrup. 305,316; Aug. 15; Serial No. 335,785; published May 23, 1933. Class 6.
Mador, Inc. (See Krick, Leonard B.)
Manko, Louis H., doing business as L. H. Manko & Company and National Summer Clothing Company, Philadelphia, Pa. Suits, coats, vests, and trousers. 305,509; Aug. 15. Class 39.
Margert Paper Company, Philadelphia, Pa. Toilet tissue. 305,461; Aug. 15; Serial No. 336,398; published May 23, 1933. Class 37.
Margulies, Pauline, Brooklyn, N. Y. Dolls. 315,469; Aug. 15; Serial No. 336,656; published May 30, 1933. Class 22.
Markvad, Erlin, Rutherford, N. J. Sandwich spread. 305,478; Aug. 15; Serial No. 336,688; published May 30, 1933. Class 46.
Martin Cantine Company, The, Saugerties, N. Y. Clay coated paper. 305,516; Aug. 15. Class 37.
McCarthy Brothers, Milwaukee, Wis. Tooth paste. 305,351; Aug. 15; Serial No. 334,685; published May 16, 1933. Class 6.
McCaskey Register Company, The, Alliance, Ohio. Sales-blank forms and holders therefor. 305,375; Aug. 15. Serial No. 335,905; published May 30, 1933. Class 37.
Metz, H. A., & Co., Inc., New York, N. Y. Pigment lakes. 305,365; Aug. 15; Serial No. 335,281; published May 16, 1933. Class 6.
Miller, Carl W., Philadelphia, Pa. Energising compound. 305,302; Aug. 15; Serial No. 334,315; published May 23, 1933. Class 6.
Missouri State Chickeries, Jefferson City, Mo. Dressed chickens. 305,454; Aug. 15; Serial No. 312,616; published May 30, 1933. Class 46.
Mitchell Camera Corporation, Los Angeles, Calif. Cameras and camera accessories. 305,517; Aug. 15. Class 26.
Moffat, John H., Indianapolis, Ind. Parking equipment for automobiles. 305,504; Aug. 15. Class 23.
Morden Machines Co., Portland, Oreg. Paper stock beating and refining machines. 305,418; Aug. 15; Serial No. 331,162; published May 30, 1933. Class 23.
Motor Dew Company, The. (See Carras, Theodore L.)
Munk, Charlotte, doing business as Lashtex Laboratories, assignor to Charles J. Bitowf, New York, N. Y. Cosmetic compounds. 305,339; Aug. 15; Serial No. 335,604; published May 30, 1933. Class 6.
Naborhood News Publishing Co. Inc., New York, N. Y. Weekly theatrical publication. 305,441; Aug. 15; Serial No. 336,780; published May 23, 1933. Class 38.
National Guaranty Credit Association. (See Althen, William L.)
National Paper Co., Chicago, Ill. Toilet paper. 305,498; Aug. 15; Serial No. 336,365; published May 23, 1933. Class 37.
National Solar Lamp Co., Buffalo, N. Y. Electric incandescent lamps. 305,336; Aug. 15; Serial No. 335,518; published May 30, 1933. Class 21.
National Summer Clothing Company. (See Manko, Louis H.)
Nelson, Herbert L., doing business as Detroiter Battery and Radio Company, Detroit, Mich. Storage batteries and radio receiving sets. 305,401; Aug. 15; Serial No. 336,834; published May 30, 1933. Class 21.
Newman-Stern Company, The, Cleveland, Ohio. Microscopes, etc. 305,458; Aug. 15; Serial No. 329,835; published May 23, 1933. Class 26.
New York World-Telegram Corporation, New York, N. Y. Periodical. 305,467; Aug. 16; Serial No. 336,450; published May 23, 1933. Class 38.
News-Week Inc., New York, N. Y. Magazine. 305,331; Aug. 15; Serial No. 335,245; published May 23, 1933. Class 38.
Niles Brewing Company, Inc., New York, N. Y. Beer ale, and porter. 305,408; Aug. 15; Serial No. 336,949; published May 30, 1933. Class 48.
Northern Paper Mills, Green Bay, Wis. Toilet paper. 305,506; Aug. 15. Class 37.
Northern Wisconsin Co-Operative Tobacco Pool, Madison, Wis. Chewing tobacco. 305,489; Aug. 15; Serial No. 336,842; published May 30, 1933. Class 17.
Northrup, Blanche M., doing business as The Alno Company, Kansas City, Mo. Preparation for use in treatment of stomach discomforts. 305,432; Aug. 15; Serial No. 336,190; published May 30, 1933. Class 6.
Norwich Pharmacal Company, The, Norwich, N. Y. Antiseptics and germicides. 305,577; Aug. 15; Serial No. 336,016; published May 23, 1933. Class 6.
Norwich Pharmacal Company, The, Norwich, N. Y. Antiseptics, germicides, etc. 305,278; Aug. 15; Serial No. 336,017; published May 23, 1933. Class 6.

Ohio Dried Fruit Company, The, Youngstown, Ohio. Canned evaporated milk. 305,389; Aug. 15; Serial No. 331,869; published May 30, 1933. Class 46.
Ohio Match Company, The, Wadsworth, Ohio. Friction matches. 41,599; renewed Dec. 8, 1933.
Ohio Match Company, The, Wadsworth, Ohio. Friction matches. 41,603; renewed Dec. 8, 1933.
Ohio Match Company, The, Wadsworth, Ohio. Friction matches. 41,607; renewed Dec. 8, 1933.
Old Ben Coal Corporation. (See Buchanan Coal Company.)
Onota Chemical Company, Pittsfield, Mass. Germicide, disinfectant, and deodorant. 305,443; Aug. 15; Serial No. 327,320; published Jan. 3, 1933. Class 6.
Palace Cab Company, New York, N. Y. Taxi-cabs. 305,450; Aug. 15; Serial No. 321,294; published May 30, 1933. Class 19.
Palmer Corporation, The, Chicago, Ill. Celery. 305,322; Aug. 15; Serial No. 335,878; published May 30, 1933. Class 46.
Paper Makers Chemical Corporation, Wilmington, Del. Colloidal wax sizing and finishing material. 305,363–4; Aug. 15; Serial Nos. 335,288–9; published May 16, 1933. Class 6.
Parfumerie Roger et Gallet, Societe Anonyme, Paris, France. Pastes and powders. 305,298; Aug. 15; Serial No. 334,651; published May 23, 1933. Class 6.
Parke, Davis & Co., Detroit, Mich. Laxative. 305,326; Aug. 15; Serial No. 335,941; published May 23, 1933. Class 6.
Paxton and Gallagher Co., Omaha, Nebr. Salad dressing. 305,301; Aug. 15; Serial No. 334,572; published May 30, 1933. Class 46.
Penguin. (See Wichman, Jack.)
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Razor blades, razors and razor stropping machines. 305,379; Aug. 15; Serial No. 336,018; published May 30, 1933. Class 23.
Pennsylvania Grocers Association, Philadelphia, Pa. Canned vegetables. 305,495; Aug. 15; Serial No. 336,360; published May 30, 1933. Class 46.
Person's Antiseptic Company, Limited, London, England, assignor to The Creolin Co., Rahway, N. J. Disinfectant. 93,112; renewed Aug. 19, 1933.
Pfunder, F. H., Inc., Minneapolis, Minn. Laxative. 305,410; Aug. 15; Serial No. 336,958; published May 30, 1933. Class 6.
Phillips, Laura L., New York, N. Y. Scalp preparation. 305,411; Aug. 15; Serial No. 330,275; published May 16, 1933. Class 6.
Phillips Petroleum Company, Bartlesville, Okla. Top dressing for vehicles, etc., dust cloths, and dry cleaning fluid. 305,395; Aug. 15; Serial No. 332,853; published May 30, 1933. Class 4.
Phillips Petroleum Company, Bartlesville, Okla. Storage batteries. 305,466; Aug. 15; Serial No. 336,541; published May 30, 1933. Class 21.
Pinand, Inc., New York, N. Y. Toilet soaps, soap sticks, and shaving soap cream. 305,349; Aug. 15; Serial No. 334,844; published May 30, 1933. Class 4.
Plymouth Paper Company, Inc., The, Holyoke, Mass. Writing paper. 305,470; Aug. 15; Serial No. 336,661; published May 23, 1933. Class 37.
Poling, Chester A., Inc., New York, N. Y. Anti-corrosive compounds. 305,323; Aug. 15; Serial No. 335,882; published May 23, 1933. Class 6.
Porcelac Company. (See Lando, Irving.)
Portland Cauliflower Growers Assn., Portland, Oreg. Fresh cauliflower. 305,308; Aug. 15; Serial No. 334,263; published May 30, 1933. Class 46.
Prescott, J. L., Company. (See Chase-O Manufacturing Company, assignor.)
Protective Diet League of California, Los Angeles, Calif. Tablets. 305,392; Aug. 15; Serial No. 332,420; published May 23, 1933. Class 6.
Protein Mineral Co., Inc., New York, N. Y. Concentrated preparation of protein-calcium phosphates, etc. 305,324; Aug. 15; Serial No. 335,883; published May 23, 1933. Class 6.
Pyle-National Company, The, Chicago, Ill. Electric locomotive headlights, airport floodlights, etc. 305,307; Aug. 15; Serial No. 334,264; published May 30, 1933. Class 21.
Quaker State Oil Refining Co., Oil City, Pa. Oils and greases. 305,468; Aug. 15; Serial No. 336,514; published May 23, 1933. Class 15.
Racar Products Co., Seaford, N. Y. Automobile polish. 305,462; Aug. 15; Serial No. 336,402; published May 23, 1933. Class 16.
Radio Chassis, Inc., New York, N. Y. Radio receiving sets and parts thereof. 305,368; Aug. 15; Serial No. 336,053; published May 23, 1933. Class 21.
Railway Paint Co. (See Sheesley, Jay R.)
Rath Packing Company, The, Waterloo, Iowa. Food for dogs. 305,440; Aug. 15; Serial No .336,788; published May 30, 1933. Class 46.
Rathjen Bros., Inc., San Francisco, Calif. Maltless beverages, syrups therefor, and ginger ale. 305,535; Aug. 15; Serial No. 335,485; published May 30, 1933. Class 45.
Red Wing Service Stations, Inc., Rochester, N. Y. Gasoline. 305,433; Aug. 15; Serial No. 336,728; published May 30, 1933. Class 15.

Remington Laboratories, Inc., New York, N. Y. Milk of magnesia tablet. 305,366; Aug. 15; Serial No. 335,248; published May 16, 1933. Class 6.
Renault, L. N. & Sons, Inc., Egg Harbor City, N. J. Seasoning. 305,372; Aug. 15; Serial No. 336,131; published May 30, 1933. Class 46.
Rex-Hide Rubber Manufacturing Company, now by change of name Rex-Hide Incorporated, East Brady, Pa. Molded friction linings. 305,512; Aug. 15. Class 35.
Rhodes, Stuart A., doing business as The Sedohor Coffee Company, New York, N. Y. Coffee. 305,460; Aug. 15; Serial No. 328,771; published May 30, 1933. Class 46.
Richardson Company, The, Lockland, Ohio. Asphaltic storage batteries. 305,501; Aug. 15; Serial No. 336,403; published May 30, 1933. Class 21.
Rock River Cotton Company, Janesville, Wis. Cotton-batting. 94,114; renewed Nov. 4, 1933.
Roundup Coal Mining Co., The, Roundup, Mont., and Omaha, Nebr. Coal. 305,439; Aug. 15; Serial No. 336,787; published May 30, 1933. Class 1.
Russell, Matthew, doing business as X-Termador Company, Springfield, Mass. Electrically operated for spraying liquids and parts thereof. 305,325; Aug. 15; Serial No. 335,906; published May 30, 1933. Class 21.
San Antonio Chemical Company. (See Dougherty, Ben M.)
San Electro Company, The, Cleveland, Ohio. Manicure machines. 305,382; Aug. 15; Serial No. 335,889; published May 30, 1933. Class 44.
Sanitary Food Mfg. Co. (See Griggs, Cooper & Co.)
Sanitary Grocery Company, Incorporated, Washington, D. C. Tea. 305,442; Aug. 15; Serial No. 327,854; published July 26, 1932. Class 46.
Santamaria, J., y Cia, S. en C., Jeres de la Frontera, Spain. Wines. 305,328; Aug. 15; Serial No. 335,139; published May 30, 1933. Class 47.
Scherer Leather Company, Milwaukee, Wis. Leather. 305,353; Aug. 15; Serial No. 335,798; published May 30, 1933. Class 1.
Schmidtman's, Theo., Sons Company, by change of name to Schmidtman Company, Manitowoc, Wis. Stationery. 41,511; renewed Nov. 24, 1933.
Scholl Mfg. Co., Inc., The, New York, N. Y., Chicago, Ill. Analgesic cream. 305,473; Aug. 15; Serial No. 336,580; published May 30, 1933. Class 6.
Schwars Paper Co., Lincoln, Nebr. Polish for furniture, woodwork, floors, etc. 305,356; Aug. 15; Serial No. 335,705; published May 23, 1933. Class 16.
Scialytic Corporation of America, Philadelphia, Pa. Hospital and physicians' furniture, aseptic metal furniture. 305,373; Aug. 15; Serial No. 336,139; published May 30, 1933. Class 44.
Scientific Sugars Company. (See Kinney, Harry W.)
Sears, Roebuck and Co., Chicago, Ill. Earthenware nested bowl sets and semi-porcelain cups and saucers, etc. 305,357; Aug. 15; Serial No. 335,699; published May 30, 1933. Class 30.
Sears, Roebuck and Co., Chicago, Ill. Paints, auto polish, whiting, and paint dryer. 305,367; Aug. 15; Serial No. 335,141; published Apr. 18, 1933. Class 16.
Sedohor Coffee Company, The. (See Rhodes, Stuart A.)
Seeman Bros., assignor to Seeman Brothers, Inc., New York, N. Y. Cocoa and chocolate. 41,762; renewed Dec. 29, 1933.
Sheesley, Jay R., doing business as Railway Paint Co., Chicago, Ill. Paint. 305,403; Aug. 15; Serial No. 336,886; published May 30, 1933. Class 16.
Sherwin-Williams Company, The, Cleveland, Ohio. Paints, varnishes, lacquers, etc. 305,391; Aug. 15; Serial No. 331,963; published May 23, 1933. Class 16.
Sherwood Distilling & Distributing Co., The, Baltimore, Md. Whiskey. 305,520; Aug. 15. Class 49.
Siebras, Norman W., doing business as Lady Lennox Company, assignor to Wellington K. Jacobs, St. Louis, Mo. Hair dye or coloring, stain remover, etc. 305,444; Aug. 15; Serial No. 325,922; published May 23, 1933. Class 6.
Sier-Bath Company, Inc., New York, N. Y. Gears, worms, wormwheels, etc. 305,463; Aug. 15; Serial No. 336,548; published May 30, 1933. Class 23.
Silica Products Corporation, New York, N. Y. Oils. 305,388; Aug. 15; Serial No. 331,629; published May 23, 1933. Class 15.
Simmons Company, New York, N. Y. Bedsteads, couches, cots, etc. 305,475; Aug. 15; Serial No. 336,693; published May 30, 1933. Class 32.
Simmons, Harry F., Pittsburgh, Pa. Eye wash and salve. 306,491; Aug. 15; Serial No. 336,335; published May 30, 1933. Class 6.
Simson & Frey, Inc., New York, N. Y. Strings for violins and similar musical instruments. 305,485; Aug. 15; Serial No. 336,304; published May 23, 1933. Class 36.
Skat-A-Rat Corporation, Providence, R. I. Preparation for use as a rodent exterminator. 305,387; Aug. 15; Serial No. 331,625; published Jan. 24, 1933. Class 6.
Societe du Carburateur Bleriot, Paris, France. Carburettors. 305,432; Aug. 15; Serial No. 336,736; published May 30, 1933. Class 23.
Spear's, Alden, Sons Co., The, Cambridge, Mass. Oils and greases. 92,498; renewed July 15, 1933.
Spear's, Alden, Sons Co., The, Cambridge, Mass. Laundry starch, wax, sizing, and bleaches. 93,934; renewed Oct. 21, 1933.
Standard Oil Company of New Jersey, Wilmington, Del. Lubricating oils. 305,422–8; Aug. 15; Serial Nos. 336,793–9; published May 23, 1933. Class 15.
Standard Oil Company of New Jersey, Wilmington, Del. Lubricating oils. 305,436–8; Aug. 15; Serial Nos. 336,790–2; published May 23, 1933. Class 15.
Sterling Products Company, Easton, Pa. Anti-freeze compound. 305,338; Aug. 15; Serial No. 335,554; published May 16, 1933. Class 6.
Sterling Products (Incorporated), Wheeling, W. Va. Preparation used in the treatment of colds. 305,344; Aug. 15; Serial No. 335,748; published May 23, 1933. Class 6.
Stieber, Eduard, Nuremberg, Germany. Apparatus for intestinal and vaginal treatment and medical apparatus and instruments especially for use in giving enemas. 305,453; Aug. 15; Serial No. 315,774; published May 30, 1933. Class 44.
Stokely Brothers and Company, Louisville, Ky. Canned vegetables. 305,310; Aug. 15; Serial No. 333,901; published May 30, 1933. Class 46.
Street & Smith Publications, Inc., New York, N. Y. Periodical. 305,431; Aug. 15; Serial No. 336,738; published May 23, 1933. Class 38.
Strohmeyer & Arpe Company, New York, N. Y. Kippered herring and kipper snacks. 305,355; Aug. 15; Serial No. 335,749; published May 30, 1933. Class 46.
Sunglo Apiary, Dongan Hills, Staten Island, N. Y. Comb and extracted honey. 305,516; Aug. 15. Class 46.
Sunland Soap Company, The. (See Kubetz, Samuel.)
Swift and Company, Chicago, Ill. Gelatin. 305,471; Aug. 15; Serial No. 336,628; published May 30, 1933. Class 46.
Thomas Publishing Company, New York, N. Y. Periodical. 305,404; Aug. 15; Serial No. 336,919; published May 30, 1933. Class 38.
Titus, Victor W., New York, N. Y. Massage, cleansing, and cold cream. 305,416; Aug. 15; Serial No. 330,939; published May 30, 1933. Class 6.
Todd, A. M., Company, Kalamazoo, Mich. Essential and volatile oils. 94,258; renewed Nov. 18, 1933.
Tonk Bros. Co., Chicago, Ill. Concertinas and accordions, their casings, etc. 305,345; Aug. 15; Serial No. 335,791; published May 30, 1933. Class 36.
Traiser, H., & Company, Incorporated, Boston, Mass. Cigars. 305,409; Aug. 15; Serial No. 336,969; published May 30, 1933. Class 17.
Traphagen Commercial Textile Studio, The. (See Leigh, Ethel T.)
Tropical Ice Cream and Sherbets Company, Inc., Tampa, Fla. Chocolate covered sherbet. 305,347; Aug. 15; Serial No. 335,014; published May 30, 1933. Class 46.
United American Metals Corporation, Brooklyn, N. Y. Babbitt metal. 305,507; Aug. 15. Class 14.
United Drug Company, Boston, Mass. Tooth, nail, hair brushes, etc. 305,464; Aug. 15; Serial No. 336,549; published May 23, 1933. Class 29.
Van Ameringen-Haebler, Inc., New York, N. Y. Natural and synthetic oils suitable for perfuming purposes. 305,317; Aug. 15; Serial No. 335,792; published May 23, 1933. Class 6.
Vim-Lax Co., The. (See Chadwick, Howard W.)
Waggoner, Norman L., Inc., San Francisco, Calif. Canned fruits and vegetables. 305,511; Aug. 15. Class 46.
Waldes & Co., Prague-Wrschowitz, Austria-Hungary, assignor, by mesne assignments, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Garment-fasteners. 94,699; renewed Dec. 23, 1933.
Walman Optical Co., The, Minneapolis, Minn. Optical lenses, frames, and mountings. 305,430; Aug. 15; Serial No. 336,742; published May 30, 1933. Class 26.
Walsh, Christy, New York, N. Y. Heading for a series of articles. 305,313; Aug. 15; Serial No. 332,974; published May 23, 1933. Class 38.
Wanamaker, John, New York, New York, N. Y. Pocketbooks. 305,476; Aug. 15; Serial No. 336,552; published May 30, 1933. Class 3.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Smoking pipes. 305,405; Aug. 15; Serial No. 336,920; published May 30, 1933. Class 8.
Wanamaker, John, Philadelphia, Philadelphia, Pa. Smoking tobacco. 305,406; Aug. 15; Serial No. 336,921; published May 30, 1933. Class 17.
Warren Refining Company, Warren, Pa. Lubricating oil. 305,305; Aug. 15; Serial No. 334,329; published May 23, 1933. Class 15.
Waterman, L. E., Company, New York, N. Y. Writing inks. 305,496; Aug. 15; Serial No. 336,336; published May 30, 1933. Class 11.
Watkins, R. L., Company, The, New York, N. Y. Dentifrices, tooth powder, astringents, and mouth washes. 305,383; Aug. 15; Serial No. 335,840; published May 16, 1933. Class 6.
West Virginia Pulp & Paper Company, The, New York, N. Y. Fiber board for electrical insulation. 305,340; Aug. 15; Serial No. 335,657; published May 23, 1933. Class 21.
White-Stokes Co., Inc., Chicago, Ill. Icing, dressing for salad, fruits, etc. 92,606; renewed July 15, 1933.
White-Stokes Company, Incorporated, Chicago, Ill. Confectionery base. 305,311; Aug. 15; Serial No. 333,842; published May 30, 1933. Class 46.

Wichman, Jack, doing business as Penguin, San Francisco, Calif. Artists' brushes. 305,459; Aug. 15; Serial No. 329,069; published May 30, 1933. Class 29.
Wiegand, Edwin L., Company, Pittsburgh, Pa. Electric room or space heater. 305,374; Aug. 15; Serial No. 335,898; published May 30, 1933. Class 21.
Williams, Percy B. T., Philadelphia, Pa. Brushes 305,510; Aug. 15. Class 29.
Winchester Repeating Arms Company, New Haven, Conn. Pistol, revolver, and rifle cartridges. 305,514; Aug. 15. Class 15.
Winterscheidt, G. Walter, Topeka, Kans. Peat moss or ground peat. 305,429; Aug. 15; Serial No. 336,603; published May 30, 1933. Class 1.
X-Termador Company. (See Russell, Matthew.)
Youngs Rubber Corporation, Inc., New York, N. Y. Prophylactic rubber articles. 305,337; Aug. 15; Serial No. 335,537; published May 30, 1933. Class 44.
Zinzinnati Malt Company, The. (See Burger Bros. Company, The.)

LIST OF REGISTRANTS OF LABELS

Adlerika Company, The, St. Paul, Minn. Adler-I-Ka Intestinal Evacuant. For an Intestinal Evacuant. 42,528; Aug. 15.
Baker Extract Company, Springfield, Mass. Bexert. For Preparation for Use in Making Ice Cream. 42,529; Aug. 15.
Campbell Paper Box Company, South Bend, Ind. White Farm Creamery Butter. For Creamery Butter. 42,530; Aug. 15.
Campbell Paper Box Company, South Bend, Ind. Creamery Butter. For Creamery Butter. 42,531; Aug. 15.
Duffy's Laboratories, Ltd., Beverly Hills, Calif. Duffy's Malt Tonic. For Malt Tonic. 42,532; Aug. 15.
Economics Laboratory, Inc., St. Paul, Minn. Soliax. For a Cleanser and Water Softener. 42,533; Aug. 15.
Fisher Baking Company, Newark, N. J. Fischer's Old-Home Sliced Bridge Bread. For Bread. 42,534; Aug. 15.
Frederics, E., Inc., New York, N. Y. Vitron. For Permanent Waving Pads. 42,535; Aug. 15.
High-Test Malt Extract Co., Inc., doing business as High-Test Beverage Co., Chicago, Ill. High-Test. For Beer. 42,536; Aug. 15.
Junior Food Products Co. Inc., Tyrone, Pa. Jack and Jill Jell. For Gelatin Desserts. 42,537; Aug. 15.
Kalamazoo Vegetable Parchment Company, Parchment, Mich. Sliced Bacon. For Bacon. 42,538; Aug. 15.
Kennedy Company, The, doing business as Kennedy's, Boston, Mass. Cable Weave. For Clothes. 42,539; Aug. 15.
Lefkowitz, S. & I., Inc., New York, N. Y. Neva-Wet. For Linen Suits. 42,547; Aug. 15.
My-T-Fine Corporation, Brooklyn, N. Y. My-T-Fine Smooth Freezing Powder. For Mixture of Ingredients to be Used in Making Ice Cream in Chocolate and in Vanilla Flavors. 42,540; Aug. 15.
National Biscuit Company, New York, N. Y. Shredded Wheat. For Whole Wheat Biscuits. 42,541; Aug. 15.
Ocean-Tone Corporation, Los Angeles, Calif. Ocean Tone. For Organic Sea Minerals. 42,542; Aug. 15.
Pacific Guano and Fertilizer Company, The, Berkeley, Calif., and Honolulu, Hawaii. Capt. Cook Coffee Co. Ltd. For Fertilizer. 42,543–4; Aug. 15.
Pacific Guano and Fertilizer Company, The, Berkeley, Calif., and Honolulu-Hawaii. P. G. & F. Co. For Fertilizer. 42,545; Aug. 15.
Reno Brewing Company, Inc., Reno, Nevada. Sierra. For Beer. 42,546; Aug. 15.
S. M. A. Corporation, Cleveland, Ohio. Hypo-Allergic Whole Milk Powder. Smaco Product 302. For Whole Milk Powder. 42,548; Aug. 15.
S. M. A. Corporation, Cleveland, Ohio. Hypo-Allergic Liquid Whole Milk, Smaco Product 300. For Liquid Whole Milk. 42,549; Aug. 15.
S. M. A. Corporation, Cleveland, Ohio. Hypo-Allergic Liquid Skim Milk, Smaco Product 303. For Liquid Skim Milk. 42,550; Aug. 15.
Two Rivers Beverage Co., Two Rivers, Wis. Golden Drops Lager Beer. For Lager Beer. 42,551; Aug. 15.
Varnum Yeast Company, West Brookfield, Mass. Varnum's Yeast. For Yeast. 42,552; Aug. 15.
Westgate Sea Products Company, San Diego, Calif. Tu-Noodles. For a Product Consisting of Tuna Fish and Noodles. 42,553; Aug. 15.
Wine Products Company, San Francisco, Calif. 'Minriliwine' Formula 'S'. For Medicinal Tonics. 42,554; Aug. 15.
Wine Products Company, San Francisco, Calif. 'Minriliwine' Formula 'P'. For Medicinal Tonics. 42,555; Aug. 15.

LIST OF REGISTRANTS OF PRINTS

Atlas Brewing Company, Chicago, Ill. Two Old Friends Get Together Again. For a Malt Beverage with a Legal Alcoholic Content. 14,297; Aug. 15.
Goodfriend, Samuel H., Chicago, Ill. A Plastic Pack Dressing for Gum and Bone Surgery. For Dental and Surgical Dressing. 14,298; Aug. 15.
Lux-Visel, Inc., Elkhart, Ind. Mends Anything Metallic—X. For Tubes of Adhesive. 14,299; Aug. 15.
Minute Make-Up Company, Inc., Philadelphia, Pa. Minute Make-Up. For Tubes of Cleansing Cream and Cleansing Tissues. 14,300; Aug. 15.
Palmer Advertising Service, Inc., New York, N. Y. Mary Meade's Recipes. For Recipes. 14,301; Aug. 15.
Sears, Roebuck & Company, Philadelphia, Pa. Thriller. For Gliders. 14,302; Aug. 15.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Buchanan Coal Company. 94,421; renewed Dec. 9, 1933.
Coal. Roundup Coal Mining Co. 305,439; Aug. 15; Serial No. 336,787; published May 30, 1933.
Cotton-batting. Rock River Cotton Company. 94,114; renewed Nov. 4, 1933.
Leather. Scherer Leather Company. 305,353; Aug. 15; Serial No. 335,799; published May 30, 1933.
Peat moss or ground peat. G. W. Winterscheidt. 305,429; Aug. 15; Serial No. 336,603; published May 30, 1933.

CLASS 2

Cups, Paper drinking. Boston Envelope Company. 305,420–1; Aug. 15; Serial Nos. 336,748–9; published May 30, 1933.

CLASS 3

Pocketbooks. John Wanamaker New York. 305,476; Aug. 15; Serial No. 336,552; published May 30, 1933.

CLASS 4

Detergent preparation. Chase-O Manufacturing Company. 94,425; renewed Dec. 9, 1933.
Dressing for vehicles, etc., dust cloths, and dry cleaning fluid. Phillips Petroleum Company. 305,395; Aug. 15; Serial No. 332,853; published May 30, 1933.
Shaving cream. B. M. Dougherty. 305,490; Aug. 15; Serial No. 336,351; published May 30, 1933.
Soap, L. Fundlur. 305,479; Aug. 15; Serial No. 326,255; published May 30, 1933.
Soap, Iowa Soap Company. 305,402; Aug. 15; Serial No. 336,870; published May 30, 1933.
Soap, Laundry. S. Kubetz. 305,481; Aug. 15; Serial No. 336,185; published May 30, 1933.
Soaps, shaving soap sticks, and shaving soap cream, Toilet. Pinaud, Inc. 305,349; Aug. 15; Serial No. 334,844; published May 30, 1933.

CLASS 5

Solder, Plastic. Cobar Chemical Company. 305,332; Aug. 15; Serial No. 335,272; published May 30, 1933.

CLASS 6

Analgesic cream. Scholl Mfg. Co. 305,473; Aug. 15; Serial No. 336,580; published May 30, 1933.
Anti-corrosive compounds. Chester A. Poling, Inc. 305,328; Aug. 15; Serial No. 335,882; published May 23, 1933.
Anti-freeze compound. Sterling Products Company. 305,338; Aug. 15; Serial No. 335,554; published May 16, 1933.
Antiseptics and germicides. Norwich Pharmacal Company. 305,377; Aug. 15; Serial No. 336,016; published May 23, 1933.
Antiseptics, germicides, etc. Norwich Pharmacal Company. 305,378; Aug. 15; Serial No. 336,017; published May 23, 1933.

Bees wax. Walter H. Jelly & Co. 305,500; Aug. 15; Serial No. 336,358; published May 30, 1933.
Bluing. Hewitt Bros. Soap Company. 305,385; Aug. 15; Serial No. 335,823; published May 16, 1933.
Chemical detergent. T. L. Carras. 305,492; Aug. 15; Serial No. 336,340; published May 30, 1933.
Concentrated preparation. Protein Mineral Co. 305,324; Aug. 15; Serial No. 335,883; published May 23, 1933.
Cosmetic. Fracy, Inc. 305,455; Aug. 15; Serial No. 311,237; published May 16, 1933.
Cosmetic compounds. C. Munk. 305,339; Aug. 15; Serial No. 335,604; published May 30, 1933.
Cream, Henna rinse, hair remover, etc. Castilian Products Corp. 305,488; Aug. 15; Serial No. 336,263; published May 30, 1933.
Cream, Massage, cleansing, and cold. V. W. Titus. 305,416; Aug. 15; Serial No. 330,939; published May 30, 1933.
Dentifrices, tooth powder, astringents, and mouth washes. R. L. Watkins Company. 305,383; Aug. 15; Serial No. 335,840; published May 16, 1933.
Disinfectant. Pearson's Antiseptic Company. 93,112; renewed Aug. 19, 1933.
Emulsion and lotion, Bath. H. I. Greenspan. 305,312; Aug. 15; Serial No. 333,552; published May 30, 1933.
Energising compound. C. W. Miller. 305,302; Aug. 15; Serial No. 334,315; published May 23, 1933.
Eye wash and salve. H. F. Simmons. 305,491; Aug. 15; Serial No. 336,335; published May 30, 1933.
Germicide, disinfectant, and deodorant. Onota Chemical Company. 305,448; Aug. 15; Serial No. 327,320; published Jan. 3, 1933.
Glycerine, Radiator. Los Angeles Soap Company. 305,321; Aug. 15; Serial No. 335,869; published May 23, 1933.
Hair dye or coloring, stain remover, etc. N. W. Siebras. 305,444; Aug. 15; Serial No. 325,922; published May 23, 1933.
Hair stimulant and tonic. Golden Pride Laboratory. 305,400; Aug. 15; Serial No. 336,865; published May 30, 1933.
Herb tea. Garfield Tea Company. 305,329; Aug. 15; Serial No. 335,161; published May 16, 1933.
Insecticidal compositions. Grasselli Chemical Company. 305,333; Aug. 15; Serial No. 335,417; published May 23, 1933.
Insecticide preparation. Hercules Powder Company. 305,318; Aug. 15; Serial No. 335,822; published May 16, 1933.
Laxative. Parke, Davis & Co. 305,326; Aug. 15; Serial No. 335,941; published May 23, 1933.
Laxative. F. H. Pfunder, Inc. 305,410; Aug. 15; Serial No. 336,058; published May 30, 1933.
Laxative and diuretic medicinal tea. Knox Company. 305,358; Aug. 15; Serial No. 335,683; published May 16, 1933.
Laxative, Chewing gum. H. W. Chadwick. 305,300; Aug. 15; Serial No. 334,597; published May 16, 1933.
Laxative cough syrup. M & G Company. 305,316; Aug. 15; Serial No. 335,785; published May 23, 1933.
Liver-stomach interaction product, iron ammonium citrate, green, and B vitamin concentrate. Eli Lilly and Company. 305,354; Aug. 15; Serial No. 335,784; published May 16, 1933.
Lotion, astringent, shampoo. I. I. Davis. 305,483; Aug. 15; Serial No. 336,177; published May 23, 1933.
Medicinal preparation. A. H. Frye. 305,327; Aug. 15; Serial No. 335,088; published May 23, 1933.
Medicine. S. Goldberg. 305,341; Aug. 15; Serial No. 335,671; published May 30, 1933.
Medicine, Whooping cough. J. Epstein. 305,480; Aug. 15; Serial No. 336,673; published May 30, 1933.
Milk or magnesia tablet. Remington Laboratories, Inc. 305,366; Aug. 15; Serial No. 335,243; published May 16, 1933.
Oil, Fuel. Fuel-Tone, Inc. 305,303; Aug. 15; Serial No. 334,391; published May 16, 1933.
Oils, Essential and volatile. A. M. Todd Company. 94,258; renewed Nov. 18, 1933.
Oils suitable for perfuming purposes, Natural and synthetic. Van Ameringen-Haebler, Inc. 305,317; Aug. 15; Serial No. 335,792; published May 23, 1933.
Oxygen absorbers. Hays Corporation. 305,494; Aug. 15; Serial No. 336,324; published May 30, 1933.
Pastes and powders. Parfumerie Roger et Gallet, Societe Anonyme. 305,298; Aug. 15; Serial No. 334,651; published May 23, 1933.
Perfume. Los Angeles Soap Company. 305,319; Aug. 15; Serial No. 335,829; published May 23, 1933.
Perfume, toilet water, brilliantine, etc. Coty, Inc. 305,360; Aug. 15; Serial No. 335,548; published May 16, 1933.
Perfumes and toilet waters. Henri Bendel Company. 305,396; Aug. 15; Serial No. 332,910; published May 16, 1933.
Pigment lakes. H. A. Metz & Co. 305,365; Aug. 15; Serial No. 335,281; published May 16, 1933.
Powder, Wave set. A. Kantar. 305,342; Aug. 15; Serial No. 335,675; published May 16, 1933.
Powders, Face. Hinde Ambrosia, Inc. 305,361; Aug. 15; Serial No. 335,506; published May 16, 1933.
Preparation for exterminating rodents. C. B. Dolge Company. 305,415; Aug. 15; Serial No. 330,622; published Nov. 22, 1932.
Preparation for the treatment of intestinal autointoxication. C. E. Jamieson & Co. 305,346; Aug. 15; Serial No. 335,027; published May 16, 1933.
Preparation for use as a rodent exterminator. Skat-A-Rat Corporation. 305,387; Aug. 15; Serial No. 331,625; published Jan. 24, 1933.
Preparation for use in treatment of stomach discomforts. B. M. Northrup. 305,482; Aug. 15; Serial No. 336,190; published May 30, 1933.
Preparation used in the treatment of colds. Sterling Products (Incorporated). 305,344; Aug. 15; Serial No. 335,748; published May 23, 1933.
Scalp preparation. L. L. Phillips. 305,411; Aug. 15; Serial No. 330,276; published May 16, 1933.
Starch, wax, sizing, and bleaches, Laundry. Alder Speare's Sons Co. 93,934; renewed Oct. 21, 1933.
Sulphur, Colloidal. Electro Chemical Processes Limited. 305,315; Aug. 15; Serial No. 333,461; published May 16, 1933.
Tablet. Protective Diet League of California. 305,392; Aug. 15; Serial No. 332,420; published May 23, 1933.
Toilet preparations. Bode Drug Company. 305,445; Aug. 15; Serial No. 325,315; published May 16, 1933.
Tonic stimulants. Cole Chemical Company. 305,380; Aug. 15; Serial No. 336,035; published May 23, 1933.
Tooth paste. McCarthy Brothers. 305,351; Aug. 15; Serial No. 334,685; published May 16, 1933.
Wax sizing and finishing material, Colloidal. Paper Makers Chemical Corporation. 305,363–4; Aug. 15; Serial Nos. 335,288–9; published May 16, 1933.

CLASS 7

Cordage. Chicago Printed String Co. 305,447; Aug. 15; Serial No. 324,777; published May 30, 1933.

CLASS 8

Pipes. John Wanamaker Philadelphia. 305,405; Aug. 15; Serial No. 336,920; published May 30, 1933.

CLASS 9

Cartridges. Winchester Repeating Arms Company. 305,514; Aug. 15.
Matches, Friction. Ohio Match Company. 41,599; renewed Dec. 8, 1933.
Matches, Friction. Ohio Match Company. 41,603; renewed Dec. 8, 1933.
Matches, Friction. Ohio Match Company. 41,607; renewed Dec. 8, 1933.

CLASS 11

Inks, Writing. L. E. Waterman Company. 305,496; Aug. 15; Serial No. 336,886; published May 30, 1933.

CLASS 12

Roofings. Barrett Manufacturing Company. 93,825; renewed Sept. 9, 1933.

CLASS 14

Iron castings. Kay-Brunner Steel Products Inc. 305,296; Aug. 15; Serial No. 334,682; published May 30, 1933.
Metal, Babbitt. United American Metals Corporation. 305,507; Aug. 15.

CLASS 15

Gasoline. Red Wing Service Stations, Inc. 305,423; Aug. 15; Serial No. 336,728; published May 30, 1933.
Oil, Lubricating. Atlas Oil Company. 305,359; Aug. 15; Serial No. 335,628; published May 23, 1933.
Oil, Lubricating. Warren Refining Company. 305,305; Aug. 15; Serial No. 334,329; published May 23, 1933.
Oils. Silica Products Corporation. 305,388; Aug. 15; Serial No. 331,629; published May 23, 1933.
Oils and greases. Quaker State Oil Refining Co. 305,468; Aug. 15; Serial No. 336,514; published May 23, 1933.
Oils and greases. Alden Speare's Sons Co. 92,498; renewed July 15, 1933.
Oils, Lubricating. Allied Petroleum Corporation. 305,370; Aug. 15; Serial No. 336,105; published May 23, 1933.
Oils, Lubricating. Banner Oil Company. 305,502; Aug. 15; Serial No. 336,419; published May 23, 1933.
Oils, Lubricating. Standard Oil Company of New Jersey. 305,422–8; Aug. 15; Serial Nos. 336,793–9; published May 23, 1933.
Oils, Lubricating. Standard Oil Company of New Jersey. 305,436–8; Aug. 15; Serial Nos. 336,790–2; published May 23, 1933.
Paint. J. R. Sheesley. 305,403; Aug. 15; Serial No. 336,886; published May 30, 1933.

CLASS 16

Carbon black used as a pigment. Imperial Oil & Gas Products Company. 305,521; Aug. 15.
Coatings, Impervious film. Brevolite Lacquer Company. 305,457; Aug. 15; Serial No. 298,189; published Mar. 8, 1932.
Paint primers, lacquers, and finishing coats. Grigsby-Grunow Company. 305,446; Aug. 15; Serial No. 325,168; published May 30, 1933.
Paints, auto polish, whiting, and paint drier. Sears, Roebuck and Co. 305,367; Aug. 15; Serial No. 335,141; published Apr. 18, 1933.

Paints, varnishes, lacquers, etc. Sherwin-Williams Company. 305,391; Aug. 15; Serial No. 331,963; published May 23, 1933.
Polish. Schwarz Paper Co. 305,356; Aug. 15; Serial No. 335,705; published May 23, 1933.
Polish, Automobile. Racar Products Co. 305,462; Aug. 15; Serial No. 336,402; published May 23, 1933.
Polishing preparation. Paroglas Products. 305,309; Aug. 15; Serial No. 333,943; published May 23, 1933.
Preparation for restoring the original luster of varnished and other surfaces. Emulso Corporation. 305,412; Aug. 15; Serial No. 330,341; published May 23, 1933.

CLASS 17

Cigars. Deisel-Wemmer Gilbert Corp. 305,407; Aug. 15; Serial No. 336,933; published May 30, 1933.
Cigars. H. Traiser & Company. 305,409; Aug. 15; Serial No. 336,969; published May 30, 1933.
Tobacco, Chewing. Northern Wisconsin Co-Operative Tobacco Pool. 305,489; Aug. 15; Serial No. 336,342; published May 30, 1933.
Tobacco, Smoking. John Wanamaker Philadelphia. 305,406; Aug. 15; Serial No. 336,921; published May 30, 1933.

CLASS 19

Taxi-cabs. Palace Cab Company. 305,450; Aug. 15; Serial No. 321,294; published May 30, 1933.

CLASS 21

B battery eliminator. S. F. James. 305,386; Aug. 15; Serial No. 331,185; published May 23, 1933.
Batteries and radio receiving sets, Storage. H. L. Nelson. 305,401; Aug. 15; Serial No. 336,884; published May 30, 1933.
Batteries, Asphaltic storage. Richardson Company. 305,501; Aug. 15; Serial No. 336,403; published May 30, 1933.
Batteries, Storage. Phillips Petroleum Company. 305,466; Aug. 15; Serial No. 336,541; published May 30, 1933.
Conduits. Breeze Corporations, Inc. 305,352; Aug. 15; Serial No. 335,803; published May 23, 1933.
Electric apparatus. Intellect-A-Ray Corporation. 305,297; Aug. 15; Serial No. 334,681; published May 30, 1933.
Electric floor polisher, scrubber, sander, etc., Combination. Continental Car-Na-var Corporation. 305,435; Aug. 15; Serial No. 336,704; published May 30, 1933.
Electric incandescent lamps. National Solar Lamp Co. 305,336; Aug. 15; Serial No. 335,518; published May 30, 1933.
Electric locomotive headlights, airport floodlights, etc. Pyle-National Company. 305,307; Aug. 15; Serial No. 334,264; published May 30, 1933.
Electric motors. Thomas A. Edison, Incorporated. 305,381; Aug. 15; Serial No. 336,038; published May 23, 1933.
Electric room or space heater. Edwin L. Wiegand Company. 305,374; Aug. 15; Serial No. 335,898; published May 30, 1933.
Electrical fire alarm equipment and attachments for causing response thereof to water flow in sprinkler systems. Gamewell Company. 305,390; Aug. 15; Serial No. 331,891; published May 23, 1933.
Electrical fire alarm systems and parts thereof. Gamewell Company. 305,413; Aug. 15; Serial No. 330,476; published May 23, 1933.
Electrical wiring strip. Louis Kallscher, Inc. 305,487; Aug. 15; Serial No. 336,221; published May 23, 1933.
Electrically operated apparatus for spraying liquids and parts thereof. M. Russell. 305,325; Aug. 15; Serial No. 335,906; published May 30, 1933.
Fiber board for electrical insulation. West Virginia Pulp & Paper Company. 305,340; Aug. 15; Serial No. 335,657; published May 23, 1933.
Fire detecting systems. Walter Kidde & Company. 305,484; Aug. 15; Serial No. 336,184; published May 23, 1933.
Radio receiving sets. Crosley Radio Corporation. 305,456; Aug. 15; Serial No. 302,627; published May 30, 1933.
Radio receiving sets and parts thereof. Radio Chassis, Inc. 305,368; Aug. 15; Serial No. 336,053; published May 23, 1933.
Spark plugs. Auburn Spark Plug Company. 305,472; Aug. 15; Serial No. 336,634; published May 30, 1933.

CLASS 22

Dolls. P. Margulies. 305,469; Aug. 15; Serial No. 336,656; published May 30, 1933.
Game, Electrically equipped. W. A. Fuld. 305,398; Aug. 15; Serial No. 336,821; published May 30, 1933.
Game, Parlor. C. L. Howard. 305,334; Aug. 15; Serial No. 335,825; published May 30, 1933.
Toy building blocks. W. J. Lumbleau. 305,518; Aug. 15.

CLASS 23

Carburetors. Societe du Carburateur Bleriot. 305,432; Aug. 15; Serial No. 336,786; published May 30, 1933.
Gears, worms, wormwheels, etc. Sier-Bath Company. 305,463; Aug. 15; Serial No. 336,548; published May 30, 1933.
Lubricant dispensing apparatus, Portable. Lincoln Engineering Company. 305,343; Aug. 15; Serial No. 335,727; published May 30, 1933.
Paper stock beating and refining machines. Morden Machines Co. 305,418; Aug. 15; Serial No. 331,162; published May 30, 1933.
Parking equipment. J. H. Moffat. 305,504; Aug. 15.
Razor blades. Fabrique Nationale de Lames de Rasoirs. 305,348; Aug. 15; Serial No. 334,957; published May 30, 1933.
Razor blades, razors and razor stropping machines. J. C. Penney Company. 305,379; Aug. 15; Serial No. 336,018; published May 30, 1933.
Saws. Henry Disston & Sons, Incorporated. 94,719; renewed Dec. 30, 1933.
Shoe machinery. Auto-Soler Company. 305,394; Aug. 15; Serial No. 332,829; published May 30, 1933.

CLASS 26

Cameras and camera accessories. Mitchell Camera Corporation. 305,517; Aug. 15.
Lenses, frames and mountings, Optical. Walman Optical Co. 305,430; Aug. 15; Serial No. 336,742; published May 30, 1933.
Microscopes, etc. Newman-Stern Company. 305,458; Aug. 15; Serial No. 329,835; published May 23, 1933.
Sensitised photographic papers, plates, films, etc. Gevaert Photo-Producten Naamloose Vennootschap (Photo-Produits Gevaert) Société Anonyme. 305,304; Aug. 15; Serial No. 334,393; published May 30, 1933.

CLASS 29

Brushes. P. B. T. Williams. 305,510; Aug. 15.
Brushes, Artists'. J. Wichman. 305,459; Aug. 15; Serial No. 329,069; published May 30, 1933.
Brushes, Tooth, nail, hair, etc. United Drug Company. 305,464; Aug. 15; Serial No. 336,549; published May 23, 1933.

CLASS 30

Earthenware nested bowl sets and semi-porcelain cups and saucers, etc. Sears, Roebuck and Co. 305,357; Aug. 15; Serial No. 335,699; published May 30, 1933.

CLASS 32

Bedsteads, couches, cots, etc. Simmons Company. 305,475; Aug. 15; Serial No. 336,693; published May 30, 1933.

CLASS 34

Air conditioners. Hexcel Radiator Company. 305,449; Aug. 15; Serial No. 321,683; published May 30, 1933.
Air conditioning units. M. Adair. 305,320; Aug. 15; Serial No. 335,841; published May 30, 1933.
Ranges, Gas. Eastern Outfitting Co. of Los Angeles, Calif. 305,362; Aug. 15; Serial No. 335,500; published May 30, 1933.

CLASS 35

Linings, Molded friction. Rex-Hide Rubber Manufacturing Company. 305,512; Aug. 15.

CLASS 36

Concertinas and accordions, their casings, etc. Tonk Bros. Co. 305,345; Aug. 15; Serial No. 335,791; published May 30, 1933.
Pianos, Grand. Aeolian American Corporation. 305,369; Aug. 15; Serial No. 336,066; published May 30, 1933.
Violins, Strings for. Simson & Frey, Inc. 305,485; Aug. 15; Serial No. 336,804; published May 23, 1933.

CLASS 37

Crayons. A. L. Kamen. 305,497; Aug. 15; Serial No. 336,360; published May 30, 1933.
Hectograph materials. C. B. Canode. 305,334; Aug. 15; Serial No. 335,482; published May 23, 1933.
Paper box liners and sheets. H. M. Hitchins. 305,414; Aug. 15; Serial No. 330,573; published May 23, 1933.
Paper, Clay coated. Martin Cantine Company. 305,515; Aug. 15.
Paper napkins and paper towels. Daniels Manufacturing Company. 305,371; Aug. 15; Serial No. 336,112; published May 23, 1933.
Paper, Toilet. National Paper Co. 305,498; Aug. 15; Serial No. 336,365; published May 23, 1933.
Paper, Toilet. Northern Paper Mills. 305,506; Aug. 15.
Paper, Writing. Griggs, Cooper & Co. 305,477; Aug. 15; Serial No. 336,678; published May 30, 1933.
Paper, Writing. Plymouth Paper Company. 305,470; Aug. 15; Serial No. 336,661; published May 23, 1933.
Sales-blank forms and holders therefor. McCaskey Register Company. 305,375; Aug. 15; Serial No. 335,906; published May 30, 1933.
Stationery. Theo. Schmidtman's Sons Company. 41,511; renewed Nov. 24, 1933.
Tissue, Toilet. Margert Paper Company. 305,461; Aug. 15; Serial No. 336,398; published May 23, 1933.

CLASS 38

Drawings for textile designs, Artistic. E. T. Leigh. 305,376; Aug. 15; Serial No. 335,909; published May 23, 1933.

Form letters, Printed. W. L. Althen. 305,330; Aug. 15; Serial No. 335,182; published May 30, 1933.
Heading for series of articles. C. Walsh. 305,313; Aug. 15; Serial No. 332,974; published May 23, 1933.
Magazine. Entertainment Publications Corporation. 305,419; Aug. 15; Serial No. 336,758; published May 23, 1933.
Magazine. News-Week, Inc. 305,331; Aug. 15; Serial No. 335,245; published May 23, 1933.
Periodical. New York World-Telegram Corporation. 305,467; Aug. 15; Serial No. 336,450; published May 23, 1933.
Periodical. Street & Smith Publications, Inc. 305,431; Aug. 15; Serial No. 336,738; published May 23, 1933.
Periodical. Thomas Publishing Company. 305,404; Aug. 15; Serial No. 336,919; published May 30, 1933.
Publication. Naborhood News Publishing Co. 305,441; Aug. 15; Serial No. 336,780; published May 23, 1933.
Stamps and coupons, Trading. C. Jorgensen. 305,397; Aug. 15; Serial No. 336,628; published May 23, 1933.

CLASS 39

Clothing and furnishings, Men's. Gimbel Brothers, Inc. 305,519; Aug. 15.
Corsets. George C. Batcheller & Co. 92,507; renewed July 15, 1933.
Suits, coats, vests, and trousers. L. H. Manko. 305,509; Aug. 15.
Underwear, Ladies'. E. B. Jacobson. 305,508; Aug. 15.

CLASS 40

Fasteners, Garment. Waldes & Co. 94,699; renewed Dec. 23, 1933.
Shields, Armpit. J. J. Beyerle Mfg. Co. 84,586; renewed Dec. 26, 1931.

CLASS 42

Astrakhans, Imitation. Joseph Benn & Sons, Inc. 94,050; renewed Nov. 4, 1933.

CLASS 44

Apparatus for intestinal and vaginal treatment and medical apparatus and instruments especially for use in giving enemas. E. Stieber. 305,452; Aug. 15; Serial No. 315,774; published May 30, 1933.
Hospital and physicians' furniture, aseptic metal furniture. Scialytic Corporation of America. 305,378; Aug. 15; Serial No. 336,139; published May 30, 1933.
Hypodermic needles. Becton, Dickinson & Co. 305,486; Aug. 15; Serial No. 336,816; published May 30, 1933.
Manicure machines. San Electro Company. 305,382; Aug. 15; Serial No. 335,889; published May 30, 1933.
Prophylactic rubber articles. Youngs Rubber Corporation. 305,337; Aug. 15; Serial No. 335,537; published May 30, 1933.
Teeth, and porcelain jacket crowns, inlays, and bridges, Artificial. I. Lando. 305,306; Aug. 15; Serial No. 334,285; published May 30, 1933.
Waving pads, Permanent. Duart Manufacturing Co. Ltd. 305,499; Aug. 15; Serial No. 336,427; published May 30, 1933.

CLASS 45

Beverages, syrups therefor, and ginger ale, Maltless. Rathjen Bros., Inc. 305 335; Aug. 15; Serial No. 335,485; published May 30, 1933.
Maltless sirups. L. B. Krick. 305,513; Aug. 15.

CLASS 46

Canned evaporated milk. Ohio Dried Fruit Company. 305,389; Aug. 15; Serial No. 331,869; published May 30, 1933.
Canned fruits and vegetables. Norman L. Waggoner, Inc. 305,511; Aug. 15.
Canned vegetables. Pennsylvania Grocers Association. 305,495; Aug. 15; Serial No. 336,369; published May 30, 1933.
Canned vegetables. Stokely Brothers and Company. 305,310; Aug. 15; Serial No. 333,901; published May 30, 1933.
Cauliflower, Fresh. Portland Cauliflower Growers Assn. 305,308; Aug. 15; Serial No. 334,263; published May 30, 1933.
Celery. Palmer Corporation. 305,322; Aug. 15; Serial No. 335,378; published May 30, 1933.
Cereal breakfast food. Colorado Sanitarium Food Company. 93,231; renewed Aug. 26, 1933.
Chickens, Dressed. Missouri State Chickeries. 305,454; Aug. 15; Serial No. 312,616; published May 30, 1933.
Cocoa and chocolate. Seeman Bros. 41,762; renewed Dec. 29, 1933.
Coffee. S. A. Rhodes. 305,460; Aug. 15; Serial No. 328,771; published May 30, 1933.
Coffee and tea. Golden Bear Coffee Co. 305,393; Aug. 15; Serial No. 332,527; published May 30, 1933.
Comb and extracted honey. Sunglo Apiary. 305,516; Aug. 15.
Confectionery base. White-Stokes Company. 305,311; Aug. 15; Serial No. 333,842; published May 30, 1933.
Confections and candy, Fresh fruit. Lukis Brothers. 305,299; Aug. 15; Serial No. 334,644; published May 30, 1933.
Cookies, Cocoanut. Battle Creek Biscuit Company. 305,451; Aug. 15; Serial No. 320,488; published May 30, 1933.
Dough, Stabilizing compound for. Joe Lowe Corporation. 305,399; Aug. 15; Serial No. 336,831; published May 30, 1933.
Food for dogs. Rath Packing Company. 305,440; Aug. 15; Serial No. 336,783; published May 30, 1933.
Gelatin. Swift and Company. 305,471; Aug. 15; Serial No. 336,628; published May 30, 1933.
Herring and kipper snacks, Kippered. Strohmeyer & Arpe Company. 305,355; Aug. 15; Serial No. 335,749; published May 30, 1933.
Ice cream. Cloquet Creamery Co. 305,452; Aug. 15; Serial No. 319,473; published Mar. 1, 1932.
Icing, dressing for salad, fruits, etc. White-Stokes Co. 92,608; renewed July 15, 1933.
Meats. Cudahy Packing Co. 41,778; renewed Dec. 29, 1933.
Salad dressing. Paxton and Gallagher Co. 305,301; Aug. 15; Serial No. 334,572; published May 30, 1933.
Sandwich spread. E. Markvad. 305,478; Aug. 15; Serial No. 336,688; published May 30, 1933.
Seasoning. L. N. Renault & Sons, Inc. 305,372; Aug. 15; Serial No. 336,131; published May 30, 1933.
Sherbet, Chocolate covered. Tropical Ice Cream and Sherbets Company. 305,347; Aug. 15; Serial No. 335,014; published May 30, 1933.
Sirup, Malt. Burger Bros. Company. 305,474; Aug. 15; Serial No. 336,598; published May 30, 1933.
Syrup, Carbohydrate. H. W. Kinney. 305,503; Aug. 15; Serial No. 335 237; published June 6, 1933.
Syrup, Malt. Best Malt Products Company. 305,448; Aug. 15; Serial No. 322,624; published May 30, 1933.
Tea. Sanitary Grocery Company. 305,442; Aug. 15; Serial No. 327,854; published July 26, 1932.
Tomato catsup, canned vegetables, salmon, etc. Gelfman Grocery Co. 94,903; renewed Jan. 13, 1934.
Wheat biscuit, Shredded. Kellogg Company. 305,505; Aug. 15.
Yeast, Dry. Consumers-Peoples Products Co. 305,417; Aug. 15; Serial No. 331,075; published May 30, 1933.

CLASS 47

Wines. J. Santamaria y Cia, S. en C. 305,328; Aug. 15; Serial No. 335,139; published May 30, 1933.

CLASS 48

Beer, ale, and porter. Miles Brewing Company. 305,408; Aug. 15; Serial No. 336,949; published May 30, 1933.
Malt beverage. H. C. Jackson. 305,498; Aug. 15; Serial No. 336,393; published May 30, 1933.
Malt beverages. Altoona Malt Company. 305 314; Aug. 15; Serial No. 333,456; published May 30, 1933.
Malt beverages. Jamestown Brewing Company. 305,465; Aug. 15; Serial No. 336,534; published May 30, 1933.

CLASS 49

Whiskey. Geo. Benn & Sons. 305,434; Aug. 15; Serial No. 336,708; published May 30, 1933.
Whiskey. Sherwood Distilling & Distributing Co. 305,520; Aug. 15.
Whisky. Governor and Company of Adventurers England Trading into Hudson's Bay. 94,444; renewed Dec. 9, 1933.
Whisky, gin, brandy, and rum. Kabushiki Kaisha Kotobukiya. 305,350; Aug. 15; Serial No. 334,753; published May 30, 1933.

LIST OF LABELS

Adler-I-Ka Intestinal Evacuant. For an Intestinal Evacuant. Adlerika Company. 42,528; Aug. 15.
Bexert. For Preparation for Use in Making Ice Cream. Baker Extract Company. 42,529; Aug. 15.
Cable Weave. For Clothes. Kennedy Company. 42,539; Aug. 15.
Capt. Cook Coffee Co. Ltd. For Fertilizer. Pacific Guano and Fertiliser Company. 42,543-4; Aug. 15.
Creamery Butter. For Creamery Butter. Campbell Paper Box Company. 42,531; Aug. 15.
Duffy's Malt Tonic. For Malt Tonic. Duffy's Laboratories, Ltd. 42,532; Aug. 15.
Fischer's Old Home Sliced Bridge Bread. For Bread. Fischer Baking Company. 42,534; Aug. 15.
Golden Drops Lager Beer. For Lager Beer. Two Rivers Beverage Co. 42,551; Aug. 15.
High-Test. For Beer. High-Test Malt Extract Co. 42,536; Aug. 15.
Hypo-Allergic Liquid Skim Milk, Smaco Product 303. For Liquid Skim Milk. S. M. A. Corporation. 42,550; Aug. 15.
Hypo-Allergic Liquid Whole Milk, Smaco Product 300. For Liquid Whole Milk. S. M. A. Corporation. 42,549; Aug. 15.

Hypo-Allergic Whole Milk Powder, Smaco Product 302. For Whole Milk Powder. S. M. A. Corporation. 42,548; Aug. 15.
Jack and Jill Jell. For Gelating Desserts. Junior Food Products Co. Inc. 42,537; Aug. 15.
'Minriliwine' Formula 'P'. For Medicinal Tonics. Wine Products Company. 42,555; Aug. 15.
'Minriliwine' Formula 'S'. For Medicinal Tonics. Wine Products Company. 42,554; Aug. 15.
My-T-Fine Smooth Freezing Powder. For Mixture of Ingredients to be Used in Making Ice Cream in Chocolate and in Vanilla Flavors. My-T-Fine Corporation. 42,540; Aug. 15.
Neva-Wet. For Linen Suits. S. & I. Lefkowitz, Inc. 42,547; Aug. 15.
Ocean Tone. For Organic Sea Minerals. Ocean-Tone Corporation. 42,542; Aug. 15.
P. G. & F. Co. For Fertilizer. Pacific Guano and Fertiliser Company. 42,545; Aug. 15.
Shredded Wheat. For Whole Wheat Biscuits. National Biscuit Company. 42,541; Aug. 15.
Sierra. For Beer. Reno Brewing Company. 42,546; Aug. 15.
Sliced Bacon. For Bacon. Kalamazoo Vegetable Parchment Company. 42,538; Aug. 15.
Sollax. For a Cleanser and Water Softener. Economics Laboratory, Inc. 42,533; Aug. 15.
Tu-Noodles. For a Product Consisting of Tuna Fish and Noodles. Westgate Sea Products Company. 42,553; Aug. 15.
Varnum's Yeast. For Yeast. Varnum Yeast Company. 42,552; Aug. 15.
Vitron. For Permanent Waving Pads. B. Frederics, Inc. 42,535; Aug. 15.
White Farm Creamery Butter. For Creamery Butter. Campbell Paper Box Company. 42,530; Aug. 15.

LIST OF PRINTS

A Plastic Pack Dressing for Gum and Bone Surgery. For Dental and Surgical Dressing. S. H. Goodfriend. 14,298; Aug. 15.
Mary Meade's Recipes. For Recipes. Palmer Advertising Service, Inc. 14,301; Aug. 15.
Mends Anything Metallic-X. For Tubes of Adhesive. Lux-Visel, Inc. 14,299; Aug. 15.
Minute Make-Up. For Tubes of Cleansing Cream and Cleansing Tissues. Minute Make-Up Company. 14,300; Aug. 15.
Thriller. For Gliders. Sears, Roebuck & Company. 14,302; Aug. 15.
Two Old Friends get Together Again. For a Malt Beverage with a Legal Alcoholic Content. Atlas Brewing Company. 14,297; Aug. 15.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 15TH DAY OF AUGUST, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A C Spark Plug Company. (See Berdon, Albert E., assignor.)
A C Spark Plug Company. (See Chisholm, Benjamin H., assignor.)
A C Spark Plug Company. (See Kamrath, Herbert G., assignor.)
A C Spark Plug Company. (See Zubaty, Joseph, assignor.)
A. P. W. Paper Company. (See Blockaidge, Charles R., assignor.)
Abramson, Abraham, New York, N. Y. Current-tapping cap-plug fitting. 1,922,651; Aug. 15.
Aceves, Julius G., New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America. Supply circuits for radio sets. Re18,916; Aug. 15.
"Acmeline" Manufacturing Company. (See Pharo, Gordon C., assignor.)
Adair, Lucille P., Jacksonville, Fla. Label. 1,922,565; Aug. 15.
Adams, Claude H., Glens Falls, N. Y. Scaffold. 1,922,069; Aug. 15.
Adams, Robert E., New York, N. Y. Golf apparatus. 1,922,021; Aug. 15.
Adler, Frank, Brooklyn, N. Y. Telephone index and memo. 1,922 611; Aug. 15.
Aherne, Mark A., Astoria, N. Y. Adjustable diffuser and injector. 1,922,920; Aug. 15.
Aho, Emil, Waukegan, Ill. Guide for stitching machines. 1,922,906; Aug. 15.
Ajax Electrothermic Corporation. (See Chesnut, Frank T., assignor.)
Ajax Electrothermic Corporation. (See Feehan, Thomas A., assignor.)
Aktienbolaget Svenska Stötdämparefabriken. (See Everstam, Johan G. and E. A., assignors.)
Aktiengesellschaft Brown Boveri & Cie. (See Kern, Erwin, assignor.)
Albright, Joseph C., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Pressure measuring device. 1,922,834; Aug. 15.
Aldcrofft, Richard B., Los Angeles, Calif. Stencil printing machine. 1,922,841; Aug. 15.
Alden, Herbert O., Oakland, assignor to Shell Oil Company, San Francisco, Calif. Service station. Des. 90,468; Aug. 15.
Alden, Herbert O., Oakland, assignor to Shell Oil Company, San Francisco, Calif. Service station. Des. 90,469; Aug. 15.
Alger, Fern R., Kansas City, Mo. Air conditioning apparatus. 1,922,790; Aug. 15.
Allen, Charles B., assignor to The Ohio Injector Company, Wadsworth, Ohio. Double top boiler check and stop valve. 1 922,029; Aug. 15.
Allen, Howard G., Niagara Falls, N. Y., and F. W. Kucklinsky, Montclair, N. J., assignors to H. R. Bliss Company, Inc., Niagara Falls, N. Y. Gluing and sealing machine for shipping cases. 1,922,412; Aug. 15.
Allen, Lavont C. (See Jennings, C. S., and Allen.)
Allis-Chalmers Manufacturing Company. (See Pfau, Arnold, assignor.)
Aluminum Company of America. (See McChesney, V. A., and Milnes, assignors.)
Amal Limited. (See Brown, Clement, assignor.)
American Blower Corporation. (See Anderson, Edward L., assignor.)
American Can Company. (See Hermani, Henry, assignor.)
American Crayon Company, The. (See Cooney, Frank B., assignor.)
American Crayon Company, The. (See Daniel, Charles E., assignor.)
American Engineering Company. (See Bennett, Joseph S., assignor.)
American Engineering Company. (See Weingartner, Anthony E., assignor.)
American Fabrics Company, The. (See Piepenbring, G. A., and Beutel, assignors.)
American Fomon Company. (See Urquhart, G. G., and Jones, assignors.)
American Gasaccumulator Company. (See Oestnaes, V. L., and Luce, assignors.)
American Gas Machine Company. (See Teague, Walter D., assignor.)
American Glanzstoff Corporation. (See Elssner, R., and Johnson, assignors.)
American Glanzstoff Corporation. (See Wadewitz, M., and Elssner, assignors.)
American Gyro Co., The. (See Holmes, E. R., and Shelton, assignors.)
American Hardware Corporation, The. (See Hurd, Norman B., assignor.)
American Hardware Corporation, The. (See Quigley, Charles P., assignor.)
American Swiss Company, The. (See Rightmyer, Holden W., assignor.)
American Telephone and Telegraph Company. (See Nyquist, Harry, assignor.)
American Telephone and Telegraph Company. (See Stone, John S., assignor.)
Amory, Charles M., New York, N. Y. Apparatus for scoring boxing bouts and the like. 1,922,517; Aug. 15.
Andersen, Edward, Woodhaven, N. Y. Self-sealing collapsible tube. 1,922,652; Aug. 15.
Andersen, Lauritz W., Waterbury, Conn. Lamp shade bracket. 1,922,754; Aug. 15.
Anderson, Anton J., Jersey City, N. J. Mainspring for watches, clocks, etc. 1,922,921; Aug. 15.
Anderson, Edward L., Grosse Ile, assignor to American Blower Corporation, Detroit, Mich. Fan injector. 1,922,070; Aug. 15.
Anderson, George K., Pittsburgh, Pa., assignor to The Neville Company. Polymerisation of coumarone. 1,922,342; Aug. 15.
Anderson, John E., assignor to Plibrico Jointless Firebrick Company, Chicago, Ill. Furnace construction. 1,922,516; Aug. 15.
Anderson, John W., assignor to General Sheet Metal Works, Inc., South Bend, Ind. Portable steam generator. 1,922,343; Aug. 15.
Anderson, Per O., Minneapolis, Minn. Storm sash operator. 1,922,722; Aug. 15.
Anderson, Robert. (See Free, J. W., and Anderson.)
Anderson, Walter A., Rockford, Ill., assignor to Sundstrand Corporation, Wilmington, Del. Debit and credit shift mechanism for bookkeeping machines. 1,922,653; Aug. 15.
Andrews, Isaac, Spartanburg, S. C. Heddle frame construction. 1,929,922; Aug. 15.
Angell, Edward C., New York, N. Y. Apparatus for making paper containers. 1,922,189; Aug. 15.
Apple, Vincent G., Dayton, Ohio, assignor to Bendix Brake Company, South Bend, Ind. Vehicle brake. 1,922,518; Aug. 15.
Armacost, Wilbur H., New York, N. Y., and R. M. Swarts, Bogota, N. J., assignors to The Superheater Company, New York, N. Y. Plug closure. 1,922,835; Aug. 15.
Armstrong, Charles C., assignor to L. R. Nelson Mfg. Co. Inc., Peoria, Ill. Nozzle. 1,922,519; Aug. 15.
Arvedson, George C. (See Barkelj, Jean A. H., assignor.)
Ascher, Max F., Chicago, Ill. Garter. 1,922,413; Aug. 15.
Aseltine, Fred E., assignor to Delco Products Corporation, Dayton, Ohio. Carburetor. 1,922,414; Aug. 15.
Ashman, Alfred O. (See Bunce, E. H., and Ashman.)
Associated Electric Laboratories, Inc. (See Bellamy, John I., assignor.)
Associated Electric Laboratories, Inc. (See Burgener, John A., assignor.)
Associated Electric Laboratories, Inc. (See Wicks, John, assignor.)
Associated Electrical Industries Limited. (See Bailey, Richard W., assignor.)
Associated Electrical Industries Limited. (See Brown, Walter J., assignor.)
Astrup Company, The. (See Heiser, Henry C., assignor.)
Atterbury, Niles, Pittsburgh, Pa. Valve. 1,922,190; Aug. 15.
Ausnehmer, Elmer C. (See Stere, B. A., and Ausnehmer.)
Automotive Patents Corporation. (See Tower, Elmer V. J., assignor.)
Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Canning machine. 1,922,148; Aug. 15.
Ayars Machine Company. (See Ayars, Charles H., assignor.)
Babcock & Wilcox Company, The. (See Davy, Christopher H., assignor.)
Babcock & Wilcox Company, The. (See Kemnal, James, assignor.)
Babcock & Wilcox Company, The. (See Kerr, Howard J., assignor.)
Baer, Edward G., assignor to The Will-Burt Company, Orrville, Ohio. Coal feed screws. 1,922,028; Aug. 15.
Baer, Jean, Uster, Switzerland. Manufacture of caoutchouc-like bodies. 1,922,923; Aug. 15.
Baernstein, Malvin A. (See Fisher, E. E., and Baernstein.)
Bagge, Walter, Los Angeles, Calif. Gauging instrument for vehicle wheels. 1,922,244; Aug. 15.
Bailey, Arnold B. (See Greig, J. W., and Bailey.)
Bailey Meter Company. (See Albright, Joseph C., assignor.)

Bailey, Richard W., Hale, England, assignor to Associated Electrical Industries Limited. Production of metal castings. 1,923,000; Aug. 15.

Bair, Ralph S., Nutley, and J. B. Bishop, Ridgewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Modulating device. 1,922,654; Aug. 15.

Bakelite Corporation. (See Bender, Howard L., assignor.)

Baker, John C., Montclair, assignor to Wallace & Tiernan Products, Inc., Belleville, N. J. Protective device for chlorinating apparatus. 1,923,044; Aug. 15.

Baker Perkins Company. (See Thurm, Richard, assignor.)

Baker, Robert H. (See Frick, C. A., and Baker.)

Baker, Robert M., and L. Smede, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Method and apparatus for reducing the contact drop between current-carrying contents. 1,922,191; Aug. 15.

Ballauf, Fritz. (See Bergdolt, A., and Ballauf.)

Bank, Maurice, Chicago, Ill. Electrical-including radio-apparatus. 1,922,415; Aug. 15.

Barber Asphalt Company, The. (See Browne, Frank A., assignor.)

Barkeij, Jean A. H., Los Angeles, Calif., assignor to G. C. Arvedson, New York, N. Y. Multicylinder internal combustion engine. 1,923,018; Aug. 15.

Barker, Harry J., Chicago, Ill. Chick fount and feeder. 1,922,612; Aug. 15.

Barnes Drill Co. (See Johnson, Albert M., assignor.)

Barnett, Louis, Brooklyn, N. Y. Portable series electrical lighting outfit. 1,922,022; Aug. 15.

Barrett, Joseph E., Company, The. (See McKenny, Charles A., assignor.)

Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Draft rigging. 1,923,045; Aug. 15.

Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Draft rigging. 1,923,046; Aug. 15.

Bassett, Robert S., Buffalo, N. Y. Liquid meter. 1,922,071; Aug. 15.

Bath, John, & Company. (See Bath, Stanley W., assignor.)

Bath, Stanley W., Schrewsbury, assignor, by mesne assignments, to John Bath & Company, Worcester, Mass. Lead screw drive for grinding machines. 1,922,520; Aug. 15.

Batt, Frederick H., Hollinwood, England, assignor to Ferranti Inc., New York, N. Y. Permanent magnet. 1,923,047; Aug. 15.

Battegay, Constant, assignor to Societe Anonyme des Ateliers Brillie Freres, Levallois-Perret, Seine, France. Printing clock. 1,922,836; Aug. 15.

Bauch Porcelain Products Co. (See Bauch, Walter G., assignor.)

Bauch, Walter G., assignor to Bauch Porcelain Products Co., Chicago, Ill. Bathroom fixture. 1,922,345; Aug. 15.

Baudis, Adolph, New York, N. Y., assignor to Gillette Safety Razor Company, Boston, Mass. Automatic safety razor. 1,922,072; Aug. 15.

Baumann, Arnold W., Chicago, Ill. Counter-current cooler. 1,922,149; Aug. 15.

Beal, Fay, assignor to Kingston Products Corporation, Kokomo, Ind. Choke and starter switch control. 1,922,346; Aug. 15.

Bear, Louis H., Chicago, Ill. Pocket comb and brush. 1,922,347; Aug. 15.

Bear-Stewart Co. (See Goodman, William L., assignor.)

Beatty, John T. (See Moulding, T. G., and Beatty.)

Beatty, Ross J. (See Moulding, T. G., and Beatty, assignors.)

Bebry, Percival P., Boston, Mass., assignor to Englander Spring Bed Company, New York, N. Y. Sliding couch bed. 1,922,613; Aug. 15.

Beck, Vernon S., Winfield, Kans. Burner. 1,922,348; Aug. 15.

Beeh, Louis, and W. E. Schwarzmann, Longmeadow, assignors to United American Bosch Corporation, Springfield, Mass. Ignition device. 1,922,655; Aug. 15.

Bell Telephone Laboratories, Incorporated. (See Bair, R. S., and Bishop, assignors.)

Bell Telephone Laboratories, Incorporated. (See Elmer, Lloyd A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Greig, J. W., and Bailey, assignors.)

Bell Telephone Laboratories, Incorporated. (See Norman, Nathaniel C., assignor.)

Bell Telephone Laboratories, Incorporated. (See Ohl, Russell S., assignor.)

Bellamy, John I., Brookfield, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 1,922,192; Aug. 15.

Bellier, Elie E. (See Dorel, F., and Bellier.)

Bender, Frank M. (See McCormick, J. H., and Bender.)

Bender, Howard L., Bloomfield, N. J., assignor to Bakelite Corporation, New York, N. Y. Air drying composition. 1,922,272; Aug. 15.

Benuix Aviation Corporation. (See Starr, Charles E., assignor.)

Bendix Brake Company. (See Apple, Vincent G., assignor.)

Benedict Stone Products Company. (See Lowell, John W., assignor.)

Benjamin Electric Manufacturing Company. (See Juergens, J., and Benjamin, assignors.)

Benjamin, Reuben B. (See Juergens, J., and Benjamin.)

Bennett, Arthur F., West Barrington, R. I., assignor to Brown and Sharpe Manufacturing Company. Milling machine. 1,922,073; Aug. 15.

Bennett, Joseph S., assignor to American Engineering Company, Philadelphia, Pa. Furnace wall construction. 1,922,521; Aug. 15.

Bentley, John G., and R. A. Gibbs, jr., Greensboro, N. C. Dobby drive. 1,923,048; Aug. 15.

Bentley, Oliver D. H., Norfolk, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Elastic fluid turbine. 1,922,074; Aug. 15.

Bens, Johannes, Dusseldorf, Germany. Butter and like divider. 1,922,723; Aug. 15.

Berdon, Albert E., East Orange, N. J., assignor to A C Spark Plug Company, Flint, Mich. High pressure discharge unit. 1,922,656; Aug. 15.

Beresh, John J., Los Angeles, Calif. Oil and water heater for internal combustion engines. 1,922,150; Aug. 15.

Berg, Hakon A. (See Juengling, K. F., and Berg.)

Bergdolt, Alfred, Vohwinkel-Hammerstein, and F. Ballauf, Elberfeld, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Sulphurized phenol. 1,922,467; Aug. 15.

Berkowitz, Michael, New York, assignor to United Research Corporation, Long Island City, N. Y. Motion picture projecting machine. 1,922,349; Aug. 15.

Berthold, Erich. (See Kuns, M. A., Koeberle, and Berthold.)

Berthold, Rudolf G. (See Steenbeck, M., and Berthold.)

Berthon, Rodolphe, Neuilly-sur-Seine, France, assignor to Kialya Corporation. Continuous process and device for reproducing prints by contact on gauffered films. 1,922,615; Aug. 15.

Beutel, Werner. (See Piepenbring, G. A., and Beutel.)

Bibb, Arthur et al. (See Krause, A. M., and Rounds, assignors.)

Biery, Walter L. (See Greis, Alphonse M., assignor.)

Bigelow-Sanford Carpet Co. (See Darienzo, Frank, assignor.)

Bigelow-Sanford Carpet Co. (See McCabe, William F., assignor.)

Bigelow-Sanford Carpet Co. (See Vetter, Ignatius J., assignor.)

Big Rock Ranch Company. (See Jacobs, Walter T., assignor.)

Bird, William H., Wanganui, New Zealand. Antislipping projection for boots and shoes. 1,922,924; Aug. 15.

Birdlebough, Otis T., Yakima, Wash. Flask for dental molds. 1,922,875; Aug. 15.

Birr, Rudolph G., and A. C. Grunwald, Chicago, Ill., assignors to Steiner Sales Company, Salt Lake City, Utah. Feed stop for towel cabinets. 1,922,837; Aug. 15.

Birtles, Arthur B., assignor to Wood-Mosaic Co., Louisville, Ky. Parquet flooring. 1,922,468; Aug. 15.

Bishop, John B. (See Bair, R. S., and Bishop.)

Black, Julia, assignor to Cheney Brothers, New York, N. Y. Textile fabric. Des. 90,470; Aug. 15.

Blackmore, Charles C., Dayton, Ohio. Toy vehicle. 1,923,049; Aug. 15.

Blake Manufacturing Corporation. (See Shannon, James L., assignor.)

Bliss, H. R. Company. (See Allen, H. G., and Kucklinsky, assignors.)

Block, David J., Chicago, Ill. Gas absorbent. 1,922,416; Aug. 15.

Blocksidge, Charles R., assignor to A. P. W. Paper Company, Albany, N. Y. Control device for a machine. 1,922,522; Aug. 15.

Blodgett, Herbert C. (See Johnson, C. G., and Blodgett.)

Bludworth, Inc. (See Davis, Arthur P., assignor.)

Blumenthal, B., & Co. (See Haas, William F., assignor.)

Blunt, James G., Schenectady, N. Y. Lateral motion resisting device. 1,922,676; Aug. 15.

Boddie, Clarence A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Signal transmission system. 1,922,198; Aug. 15.

Bode-Cummins Mfg. Company, The. (See Heitman, Max F. C., assignor.)

Bodkin, Irving S., New York, N. Y., assignor to Gillette Safety Razor Company, Boston, Mass. Adhesive-applying mechanism. 1,922,523; Aug. 15.

Bogut, Stanley, Chicago, Ill. Automatic air brake release valve. 1,922,417; Aug. 15.

Boice, John E. (See Boice, William B. and J. E.)

Boice, William B. and J. E., Toledo, Ohio. Adjusting device for saw arbors. 1,922,151; Aug. 15.

Bolen, Emerson A., assignor to Northwestern Corporation, Morris, Ill. Coin detector. 1,922,925; Aug. 15.

Bolton, Arthur, Gateshead, assignor of one-half to J. English, North Leam, England. Automatic friction clutch. 1,922,350; Aug. 15.

Borthwick, James H., Honolulu, Territory of Hawaii. Supercharger for carburetors. 1,922,469; Aug. 15.

Bosch, Robert, Aktiengesellschaft. (See Mangold, Rudolf, assignor.)

Bosch, Robert, Aktiengesellschaft. (See Rall, Max, assignor.)

Bossart, Otto A., assignor to Modine Manufacturing Company, Racine, Wis. Heat exchange device. 1,922,838; Aug. 15.

Botsford, Robert C., New Haven, Conn. Pruning tool. 1,922,877; Aug. 15.

Bottome, Edgar Mott, assignor to Fostoria Glass Company, Moundsville, W. Va. Goblet or similar articles. Des. 90,471; Aug. 15.

Bouslog, John G., Compton, Calif. Tubing head. 1,922,024; Aug. 15.

Bowermaster, William. (See Carson, F. L., and Bowermaster.)

Bowers, Edward B., et al. (See Smith, Herbert, assignor.)

Bowers, Joseph S., Tulsa, Okla. Attachment for gasoline tanks. 1,922,470; Aug. 15.

Bowman, William A., Las Cruces, N. Mex. Stringed musical instrument. Des. 90,472; Aug. 15.

Boyle, Rudolph B., Kansas City, Mo. Road guard mounting. 1,922,878; Aug. 15.

Bradbury, George E., Evanston, Ill. Ventilator noise deadener. 1,922,152; Aug. 15.

Bradbury, William T., Kankakee, Ill., assignor to Florence Stove Company, Boston, Mass. Combination liquid fuel reservoir and support therefor. Des. 90,473; Aug. 15.

Bradley Miller & Co. (See Miller, John M., assignor.)

Bradshaw, Charles T., Philadelphia, Pa. Punch. 1,922,614; Aug. 15.

Braker, William. (See Jones, W. S., and Braker.)

Brand, Achill W., Morro Bay, Calif. Exercise belt. 1,922,566; Aug. 15.

Brand, Samuel, assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,922,025; Aug. 15.

Brecht, Carl, Indianapolis, Ind. Picture frame. 1,922,567; Aug. 15.

Brecht, Winston A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid pressure braking system. 1,922,227; Aug. 15.

Brelsford, Harry E., assignor to Diamond Power Specialty Corporation, Detroit, Mich. De-dusting apparatus. 1,922,075; Aug. 15.

Briggs, Albert, Vallejo, Calif. Magnetic fluid gauge. 1,922,278; Aug. 15.

Bristow, Paul W., Wilmington, and H. E. Houseman, Edge Moor, assignors to Standard-Trump Bros. Machine Company, Wilmington, Del. Process and machine for producing knitted fabrics. 1,922,119; Aug. 15.

Brittain, Richard J., jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich. Guard or shield. 1,922,076; Aug. 15.

Brosig, Richard, Bad Charlottenbrunn, Germany. Expansion sheath for wood-spikes. 1,922,120; Aug. 15.

Brotz, Frank G., Kohler, Wis. Bathtub support. 1,922,329; Aug. 15.

Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Rocker shaft bearing for looms. 1,922,026; Aug. 15.

Brown, Clement, assignor to Amal Limited, Birmingham, England. Reciprocating pump. 1,922,121; Aug. 15.

Brown Company. (See Hubbard, Barton D., assignor.)

Brown, Harold, assignor of one-half to H. C. Crandall, Kansas City, Kans. Ventilated seat cushion. 1,922,228; Aug. 15.

Brown Instrument Company, The. (See Brown, B. P., and Harrison, assignors.)

Brown Instrument Company, The. (See Malpass, Donald, assignor.)

Brown, Richard P., Philadelphia, and T. R. Harrison, Wyncote, assignors to The Brown Instrument Company, Philadelphia, Pa. Measuring apparatus. 1,922,194; Aug. 15.

Brown, Roger S., Chicago, Ill. Tube for boiler economizers, heat exchangers, and the like. 1,922,351; Aug. 15.

Brown and Sharpe Manufacturing Company. (See Bennett, Arthur F., assignor.)

Brown, Walter J., Brooklands, England, assignor to Associated Electrical Industries Limited. High frequency electrical apparatus. 1,922,195; Aug. 15.

Browne, Frank A., Wayne, assignor to The Barber Asphalt Company, Philadelphia, Pa. Plug valve. 1,922,840; Aug. 15.

Brownstein, Sarah. (See Wetherall, Lucian F., assignor.)

Bryant, Jerrus M., Philadelphia, Pa., assignor to Link-Belt Company. Control device. 1,922,352; Aug. 15.

Buchanan, Stephen N., assignor to The Thomas & Betts Co., Elisabeth, N. J. Ground fitting. 1,922,077; Aug. 15.

Buckeye Incubator Manufacturing Company. (See Hart, Thomas H., assignor.)

Bucyrus-Erie Company. (See Ferris, Walter, assignor.)

Buffalo Brake Beam Company. (See Crone, Seth A., assignor.)

Bullimore, William R., London, England. Thermionic valve. 1,922,926; Aug. 15.

Bullington Engine Heads. (See Bullington, Frank A., assignor.)

Bullington, Frank A., assignor to Bullington Engine Heads, Kansas City, Mo. Superpressure overhead valve engine. 1,922,353; Aug. 15.

Bullock, Earl, assignor to Metal Office Furniture Company, Grand Rapids, Mich. Furnace jacket. Des. 90,474; Aug. 15.

Bumpus, Amos F., Prescott, Ariz. Surveying instrument. 1,922,791; Aug. 15.

Bunce, Earl H., and A. O. Ashman, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Metallurgical furnace. 1,922,274; Aug. 15.

Burgener, John A., Hinsdale, assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 1,922,879; Aug. 15.

Burke, Hubert H., Chicago, Ill., assignor to The Package Box Company. Box construction. 1,922,354; Aug. 15.

Burke, Lawrence J., assignor to Poster Products, Inc., Chicago, Ill. Game. 1,922,229; Aug. 15.

Burnside, George B., Broomhill, Glasgow, Scotland. Apparatus for preventing condensation on the inside surface of a show case window. 1,922,927; Aug. 15.

Butler, Robert S., Los Angeles, Calif., assignor to Nordberg Manufacturing Co., Milwaukee, Wis. Pump. 1,922,196; Aug. 15.

Buxton, Incorporated. (See Buxton, Warner R., assignor.)

Buxton, Warner R., Longmeadow, Mass. Flexible pocket receptacle. Des. 90,475; Aug. 15.

Buxton, Warner R., Longmeadow, assignor to Buxton, Incorporated, Springfield, Mass. Key case. 1,922,755; Aug. 15.

Byars, Alga E. (See Byars, Edgar and A. E.)

Byars, Edgar W., Goshen, Ind. Wringer mop. 1,922,658; Aug. 15.

Byars, Edgar W. and A. E., Goshen, Ind. Mop. 1,922,657; Aug. 15.

Byerlein, Arthur A., Detroit, Mich., assignor to General Machinery Corporation, Hamilton, Ohio. Shaft bearing. 1,922,355; Aug. 15.

Byron Jackson Co. (See Hollander, Aladar, assignor.)

Cadieux, Joseph O., assignor to Connecticut Telephone & Electric Corporation, Meriden, Conn. Gas lamp construction. 1,922,524; Aug. 15.

Cadwell-Baird Iron Wks. (See Cadwell, Ralph K., assignor.)

Cadwell, Ralph K., Glendale, assignor to Cadwell-Baird Iron Wks., Los Angeles, Calif. Static brake tester. 1,922,659; Aug. 15.

Caln, Edward H., South Euclid, Ohio. Testing apparatus. 1,922,792; Aug. 15.

California Spray-Chemical Corporation. (See Volck, William H., assignor.)

Calvert, Robert. (See Van Schaack, R. H., jr., and Calvert.)

Cambio Products Limited. (See Mapson, L. W., MacCurdy, and Nolan, assignors.)

Camel Company. (See Tobin, Kenneth J., assignor.)

Cameron, James A., Oak Park, Ill. Phonograph. 1,922,281; Aug. 15.

Candee, Allan H., assignor to Gleason Works, Rochester, N. Y. Method of and machine for producing gears. 1,922,756; Aug. 15.

Candee, Allan H., assignor to Gleason Works, Rochester, N. Y. Producing gears. 1,922,757; Aug. 15.

Canulette, Frank N., assignor to Canulette Ship Building Co. Inc., Slidell, La. Cushioned crank pin. 1,922,275; Aug. 15.

Canulette Ship Building Co. Inc. (See Canulette, Frank N., assignor.)

Carew, Herman, assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Support for stacked articles. 1,922,122; Aug. 15.

Car-Kra Corporation. (See Fast, August C., assignor.)

Carlisle, George L., Kenova, W. Va., assignor to Delta Star Electric Company, Chicago, Ill. High tension switch. 1,922,276; Aug. 15.

Carnegie, Herbert S. (See Wilson, J. C., and Carnegie.)

Caro, Nikodem, Berlin-Dahlem, A. R. Frank, Berlin-Halensee and Hans-Heinrich Franck, Berlin-Charlottenburg, Germany. Preparing cyanamid. 1,922,230; Aug. 15.

Carpenter, Guy L. (See McClenny, R. W., and Carpenter.)

Carpenter, Lynn A. (See Heritage, C. C., Schafer, and Carpenter.)

Carr, Frank R., Nashville, Tenn. Hub and brake drum assembly for vehicle wheels. 1,922,568; Aug. 15.

Carr, Moses F., Lincoln, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Snap fastener slide socket. 1,923,060; Aug. 15.

Carson, Frederic L., and W. Bowermaster, San Antonio, Tex. Grease gun. 1,922,277; Aug. 15.

Carswell, Firman L., and O. W. Schmidt, Kansas City, Mo. Road grader. 1,922,880; Aug. 15.

Carter, Nathan A., Memphis, Tnn. Trailer body. 1,922,027; Aug. 15.

Case, J. I., Company. (See Krause, Norman R., assignor.)

Case Research Laboratory, Inc. (See Case, Theodore W., assignor.)

Case, Theodore W., assignor to Case Research Laboratory, Inc., Auburn, N. Y. Glow lamp. 1,923,051; Aug. 15.

Casein Manufacturing Company of America, Inc., The. (See Dunham, Henry V., assignor.)

Castellano, Gennaro and O. Esposito, New York, N. Y. Waterproof cigarette case. Des. 90,476; Aug. 15.

Caughey, Reed J., Schenectady, N. Y., assignor to General Electric Company. Hydraulic control system. 1,922,881; Aug. 15.

Cavanagh, John F., assignor to William W. Potter, Pawtucket, R. I. Apparatus for manufacturing rubber tire tubes. 1,922,471; Aug. 15.

Cave, Channing M., jr., New Orleans, La. Pressure control device. 1,922,928; Aug. 15.

Celanese Corporation of America. (See Ellis, George H., assignor.)

Celanese Corporation of America. (See Ellis, G. H., and Miller, assignors.)

Celanese Corporation of America. (See Riley, Reginald H. J., assignor.)
Celanese Corporation of America. (See Tidmus, A. H., and Reeson, assignors.)
Central Republic Bank and Trust Company, Executor, et al. (See Friendly, Herbert N.)
Central Trust Company. (See Friendly, Herbert N., assignor.)
Chamberlain, Harold B., assignor to Tuco Products Corporation, New York, N. Y. Flooring. 1,922,472; Aug. 15.
Chamberlain, Leonard C., assignor to The Dow Chemical Company, Midland, Mich. Extracting iodine from natural waters and the like. 1,922,693; Aug. 15.
Chamberlain, Martin T., assignor of one-half to J. C. Lawrence, Mobile, Ala. Keying members on shafts. 1,922,929; Aug. 15.
Champion Spark Plug Company. (See Rohde, Otto C., assignor.)
Chandeysson, Pierre I., St. Louis, Mo. Dynamo electric machine. 1,922,028; Aug. 15.
Chapman, Frank D., Berlin, Wis. Liquid dispensing machine. 1,022,356; Aug. 15.
Chase, Ernest L., trustee. (See Morse, L. H., and Smith, assignors.)
Chase, Philip H., Bala-Cynwyd, Pa. Cable. 1,922,907; Aug. 15.
Chatfield, Victor M., assignor to Sun Oil Company, Philadelphia, Pa. Absolute pressure recording device. 1,922,882; Aug. 15.
Cheney Brothers. (See Black, Julia, assignor.)
Chesnut, Frank T., Yardley, Pa., assignor to Ajax Electrothermic Corporation, Ajax Park, N. J. Protective device for induction furnaces. 1,922,029; Aug. 15.
Chicago Roller Skate Company. (See Ware, Robert R., assignor.)
Chilcote, Joseph M. (See Robinson, J. F., Chilcote, and Haupt.)
Chisholm, Benjamin H., assignor to A C Spark Plug Company, Flint, Mich. Calibrating means for oil gauges. 1,922,616; Aug. 15.
Chorlton, Alan E. L., London, England. Vehicle substructure. 1,922,197; Aug. 15.
Chornoby, Harry. (See Todoruk, W., and Chornoby.)
Christian, David A., assignor to Siemens Brothers & Company Limited, London, England. Telephone system. 1,922,232; Aug. 15.
Christiansen, Walter G. (See Harris, S. E., and Christianseen.)
Christiansen, Walter G., Glen Ridge, and W. A. Lott, Newark, N. J., assignors to E. R. Squibb & Sons, New York, N. Y. Amyl cresols and preparation thereof. 1,922,153; Aug. 15.
Christman, Peter J., Green Bay, Wis. Power transmission. 1,922,660; Aug. 15.
Christopherson, Knute, Minneapolis, Minn., assignor to The L. S. Starrett Company, Athol, Mass. Micrometer depth gauge. 1,922,758; Aug. 15.
Chulstrom, John M., Elmhurst, assignor to The Western Union Telegraph Company, New York, N. Y. Pneumatic conveyer relay or terminal. 1,923,052; Aug. 15.
Cincinnati Butchers' Supply Company, The. (See Schmidt, Oscar C., assignor.)
Clark, David M. (See Henne, A. H., and Clark.)
Clark, Peter, New York, N. Y. Stage. 1,922,525; Aug. 15.
Claude Neon Electrical Products Corporation. (See Erickson, Ellis O., assignor.)
Cleveland Graphite Bronze Company, The. (See Klocke, William H., assignor.)
Cleveland Rock Drill Company, The. (See Richardson, Led L., assignor.)
Clyne, Robert G. (See Olin, Franklin W. and J. M., and Clyne.)
Coats, J. & P., (Rhode Island) Incorporated. (See MacColl, Kenneth D., assignor.)
Cohen, William, assignor to L. & E. Stirn, Inc., New York, N. Y. Textile fabric or similar article. Des. 90,477; Aug. 15.
Cohn Hall Marx Co. (See Cusson, Sylvain, assignor.)
Cohn, Max M. (See Johnston, Clarence L., assignor.)
Cole Service Plan, Inc. (See Hasselkus, William, assignor.)
Coleman, Spencer A., Concord, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Apron conveyer. 1,922,908; Aug. 15.
Collins & Aikman Corporation. (See Erkes, Joseph, assignor.)
Colorado Fuel and Iron Company, The. (See MacDonald, Charles H., assignor.)
Colorado Fuel and Iron Company, The. (See Miller, R. M., Schenler, and Stout, assignors.)
Columbia Enameling & Stamping Co. (See Nelson, Andrew W., assignor.)
Columbia Narrow Fabric Company. See Gobeille, Alfred A., assignor.)
Commercial Shearing & Stamping Company, The. (See Proctor, Robert V., assignor.)
Compagnie Industrielle Franco-Africaine. (See Mercier, Pierre E., assignor.)
Conant, Lawrence W., assignor to Ko-Rect Posture Chair Company, High Point, N. C. Posture regulating chair. 1,922,418; Aug. 15.
Connecticut Telephone & Electric Corporation. (See Cadieux, Joseph O., assignor.)
Connolly, Gerald C. (See Miller, E. B., and Connolly.)
Continental Can Company. (See Householder, Harvey E., assignor.)
Cooley, Earl, Trinidad, Colo. Manufacturing fish lure and fish lure made thereby. 1,922,841; Aug. 15.
Cooney, Frank B., et al. (See Seits, Wilford, assignor.)
Coohey, Frank B., assignor to The American Crayon Company, Sandusky, Ohio. Packing collapsible tube and the like. 1,922,233; Aug. 15.
Cornell University. (See Sharp, Paul F., assignor.)
Coulston, Earl V., Cleveland, Ohio. Accessory for cooking vessels. 1,922,419; Aug. 15.
Coulston, Earl V., Cleveland, Ohio. Attachment for stoves. 1,922,420; Aug. 15.
Courtaulds Limited. (See Hegan, H. J., and Taylor, assignors.)
Cowin, Stuart H., Pittsburgh, and L. J. Hibbard, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Motor control system. 1,922,724; Aug. 15.
Coyle, Frank J., New York, N. Y. Holder for pretzels or the like. Des. 90,478; Aug. 15.
Coyle, Paul L. (See Witherow, W. P., and Coyle.)
Coyle, Paul L., Coraopolis, Pa., assignor to Republic Steel Corporation, Youngstown, Ohio. Reworking of die-rolled articles. 1,922,793; Aug. 15.
Crago, Harry R., Schenectady, N. Y., assignor to General Electric Company. Material handling system. 1,922,883; Aug. 15.
Crandall, Harry C. (See Brown, Harold, assignor.)
Crater, Willard DeC., Succasunna, N. J., assignor to Hercules Powder Company, Wilmington, Del. Inulin nitrate and method of producing. 1,922,123; Aug. 15.
Crawford, George M., Ingomar, and J. M. London, Butler, Pa. Conveyer. 1,922,198; Aug. 15.
Crespinel, William T., and C. W. Prynne, Los Angeles, Calif., assignors, by mesne assignments, to Hughes Industries Co. Ltd. Film coloring machine and coloring film. 1,922,725; Aug. 15.
Crockett, Frank L., East Douglas, assignor to Whitin Machine Works, Whitinsville, Mass. Heilman type comer. 1,922,030; Aug. 15.
Crone, Seth A., East Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Safety supporting means for brake beams. 1,922,526; Aug. 15.
Crosman, James H., 3d, Wilmington, N. C. Aircraft. 1,922,124; Aug. 15.
Crotty, James A., et al. (See Henne, A. H., and Clark, assignors.)
Crouse-Hinds Company. (See Hardage, Clarence A., assignor.)
Crowder, Alexander N., Bound Brook, N. J., assignor to Research Corporation, New York, N. Y. Insulator heating circuit. 1,922,125; Aug. 15.
Crumrine, Chester W. (See Thompson, R. G., and Crumrine.)
Curry, Edward J., St. Paul, Minn. Window cleaning device. 1,922,078; Aug. 15.
Curtis, James D., Collingswood, N. J. Spark plug containing an intensifying gap. 1,922,661; Aug. 15.
Curtiss Aeroplane & Motor Company. (See Vaughn, Stanley I., assignor.)
Cusson, Sylvain, assignor to Cohn Hall Marx Co., New York, N. Y. Textile fabric or similar article. Des. 90,470; Aug. 15.
Daly, Christopher M., Bridgeport, Conn. Radioreceiver. 1,922,279; Aug. 15.
Daman, Louis W., Outremont, Montreal, Quebec, Canada. 1,922,421; Aug. 15.
Daniel, Charles E., assignor to The American Crayon Company, Sandusky, Ohio. Apparatus for molding pencils and the like. 1,922,527; Aug. 15.
Darby, Samuel E., Trustee. (See Parker, Richard B., assignor.)
Darienzo, Frank, Amsterdam, N. Y., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Weaving tuft pile fabrics. 1,928,030; Aug. 15.
Darma, John M. G., Haverford Township, Delaware County, Pa. Gas keeper. 1,922,980; Aug. 15.
Daubenspeck, William J., assignor to The Ignition Manufacturing Company, Cleveland, Ohio. Air valve. 1,922,280; Aug. 15.
Davis, Albert G., Elizabeth, N. J., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del. Treating petroleum hydrocarbons. 1,922,528; Aug. 15.
Davis, Arthur P., assignor to Bludworth, Inc., New York, N. Y. Remote control system. 1,922,759; Aug. 15.
Davis, Clark W., Swarthmore, Pa., S. L. Handforth, and W. E. Kirst, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Concentrating nitric acid. 1,922,278; Aug. 15.
Davison Chemical Company, The. (See Miller, E. B., and Connolly, assignors.)
Davy, Christopher H., London, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,922,662; Aug. 15.
Dawson, Leo H., Washington, D. C. Lamp for producing ultra-violet radiation. 1,922,281; Aug. 15.
Day, A. F., Construction Company. (See Day, Andrew F., assignor.)
Day, Andrew F., assignor to A. F. Day Construction Company, Dallas, Tex. Guide for cutting torches. 1,922,529; Aug. 15.

Daynes, Harold A., Cambridge, England. Gas measuring process and apparatus. 1,922,666; Aug. 15.
Dayton Steel Foundry Company, The. (See Walther, George, assignor.)
Deere & Company. (See Strandlund, C. G., and Madill, assignors.)
Defays, Victor J. J., and P. J. L. Lefebvre, Brussels, Belgium. Clinching device. 1,922,931; Aug. 15.
De Golyer, Roy E., Houston, Tex. Nut cracker. 1,922,884; Aug. 15.
De Goyer, John A., Oak Park, Ill. Matrix. 1,922,031; Aug. 15.
De Groote, Melvin, St. Louis, assignor to Tretolite Company, Webster Groves, Mo. Increasing the output of oil wells. 1,922,154; Aug. 15.
Dehn, William C., Three Rivers, Mich., assignor to Fairbanks, Morse & Co., Chicago, Ill. Fuel igniting. 1,922,667; Aug. 15.
De Jong, Frans H., assignor to N. V. Philips Gloeilampenfabrieken, Eindhoven, Netherlands. Arrangement for amplifying alternating voltage variations. 1,922,794; Aug. 15.
Delano, Frederic A., Washington, D. C. Corrugated transparent material. 1,922,932; Aug. 15.
De La Roche, Hans R. S., Bremen, Germany. Producing plastic masses petrifying after the setting. 1,922,473; Aug. 15.
De Laval Steam Turbine Company. (See Kennedy, Frank W., assignor.)
Delco Products Corporation. (See Aseltine, Fred E., assignor.)
Delco Products Corporation. (See Teeter, Wilford H., assignor.)
Delco-Remy Corporation. (See Norviel, Harry E., assignor.)
Deline, Irving A., Denver, Colo. Box construction. 1,922,571; Aug. 15.
Dell, Frank P., and W. Freeman, Philadelphia, Pa. Piano. 1,922,530; Aug. 15.
Del Mar, William A., Greenwich, Conn., assignor to Habirshaw Cable and Wire Corporation, New York, N. Y. Shielded rubber insulated cable. 1,922,726; Aug. 15.
Delta Star Electric Company. (See Carlisle, George L., assignor.)
De Marco, Louis, assignor of fifteen per cent to P. A. Secor, Cleveland, Ohio. Carburetor. 1,922,569; Aug. 15.
De Regnauld de Belleszize, Henri J. J. M., Neuilly-sur-Seine, France. Signal receiving system. 1,922,282; Aug. 15.
Dering, Henry O., Staines, assignor to Superfine Chemicals Limited, London, England. Manufacture of crystalline materials. 1,922,283; Aug. 15.
De Rome, Andre H., Quebec City, Quebec, Canada. Apparatus for brine freezing and icing or glazing edibles. 1,922,795; Aug. 15.
De Shano, Ray J., Wyandotte, Mich. Automatic safety brake. 1,922,570; Aug. 15.
De Silva, Roberto, San Antonio, Tex., assignor to Little Bear Specialties Company. Toy. 1,923,019; Aug. 15.
De Vries, Walter, Berlin, Germany, assignor to General Electric Company. Plural motor drive. 1,922,885; Aug. 15.
Dewald, Edward A., Massillon, Ohio, assignor to The Griscom-Russell Company, New York, N. Y. Metal ribbon machine. 1,922,531; Aug. 15.
Diamond Power Specialty Corporation. (See Brelsford, Harry E., assignor.)
Di Carlo, Donato, Philadelphia, Pa. Vehicle lighting fixture. 1,922,617; Aug. 15.
Dickey, Cromwell B., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company. Fertiliser. 1,922,909; Aug. 15.
Dickson, John B., Huntington Woods, assignor to General Motors Research Corporation, Detroit, Mich. Catadioptric lens. 1,922,619; Aug. 15.
Dike, Theodore W., New Westminster, British Columbia, Canada, assignor, by mesne assignments, to Laminating Patents Corporation, Seattle, Wash. Uniting members. 1,922,668; Aug. 15.
Dirks, Richard, Chemnitz, Germany. Measuring method. 1,922,933; Aug. 15.
Ditmore, George W., et al. (See Krause, A. M., and Rounds, assignors.)
Divney, James J., and B. Jacoby, assignors to The Marion Steam Shovel Company, Marion, Ohio. Tumbler for crawling traction mechanism. 1,922,357; Aug. 15.
Dixon, Edward C., Lakewood, Ohio. Emergency lighting. 1,922,079; Aug. 15.
Doane, Harry C., Flint, assignor to General Motors Corporation, Detroit, Mich. Relay. 1,922,422; Aug. 15.
Doane, Leroy C., Meriden, Conn., assignor to Sanitary Public Service Corporation, New York, N. Y. Coin controlled mechanism. 1,922,358; Aug. 15.
Dodge, Lloyd L., St. Paul, Minn. Paper box. 1,923,053; Aug. 15.
Doehler Die-Casting Co. (See Morin, Louis H., assignor.)
Doherty Research Company. (See Morgan, John D., assignor.)
Doonan, William D. (See Rogers, J. F., and Doonan.)
Dorel, Felix, and E. E. Reiller; said Dorel assignor to Société Française des Films Herault, Paris, France. Device for the elimination of chromatic flicker in projection apparatus. 1,922,984; Aug. 15.
Douglas, Harry A. (See Watts, Felix J., assignor.)
Douglas, Harry A., Bronson, Mich. Switching mechanism for automotive vehicles. 1,922,234; Aug. 15.
Douglas, Harry A., Bronson, Mich. Switching mechanism. 1,922,235; Aug. 15.
Douglas, Harry A., Bronson, Mich. Switching mechanism. 1,922,236; Aug. 15.
Dow Chemical Company, The. (See Chamberlain, Leonard C., assignor.)
Dow Chemical Company, The. (See Hale, William J., assignor.)
Dow Chemical Company, The. (See Heath, Sheldon B., assignor.)
Drake, Edwin H. (See Moore, C. G., and Drake.)
Drapeau, Joseph E., jr. (See O'Brien, W. J., and Drapeau.)
Draper Corporation. (See Brown, Carl D., assignor.)
Dravo Contracting Company, The. (See Kersting, Bernard H., assignor.)
Dreese, Erwin E., Worthington, assignor to The Lincoln Electric Company, Cleveland, Ohio. Mechanism for electric welding and the like. 1,922,760; Aug. 15.
Drewry, Thomas E., Griffin, Ga. Direction indicator for vehicles. 1,922,796; Aug. 15.
Driggs, Louis L., jr., Tippecanoe City, Ohio. Cannon. 1,922,080; Aug. 15.
Driggs, Louis L., jr., assignor to The Tipp Fireworks Company, Tippecanoe City, Ohio. Fireworks. 1,922,081; Aug. 15.
Driscoll, Daniel W., Villanova, Pa. Automatic call mechanism. 1,922,572; Aug. 15.
Du Bois, Hilyer A., Richmond Hill, N. Y. Article supporting bracket. 1,922,935; Aug. 15.
Dunbar, Frank H., Chagrin Falls, Ohio. Pressure applying mechanism. 1,922,886; Aug. 15.
Dunham, Henry V., Bainbridge, assignor, by mesne assignments, to The Casein Manufacturing Company of America, Inc., New York, N. Y. Coating process and material. 1,922,936; Aug. 15.
Dunkak, Elmer B., assignor to The C. M. Kemp Mfg. Co., Baltimore, Md. Control device. 1,922,573; Aug. 15.
Dunzweiler, Carl J., assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage batter container. 1,922,082; Aug. 15.
Duplate Corporation. (See Kamerer, J. W., and Fix, assignors.)
Du Pont, E. I., de Nemours & Company. (See Davis, C. W., Handforth, and Kirst, assignors.)
Du Pont, E. I., de Nemours & Company. (See Handforth, Stanley I., assignor.)
Du Pont, E. I., de Nemours & Company. (See Zisch, Walter, assignor.)
Durand, Arthur F., Ravinia, Ill., assignor to Saranac Patents Holding Company, Benton Harbor, Mich. Wirebound box blank. 1,922,842; Aug. 15.
Dwofsky, Bernard, assignor of two-thirds to B. E. Horton, and D. W. Horton, Syracuse, N. Y. Food chopping machine. 1,922,761; Aug. 15.
Earnshaw Knitting Company. (See Haga, Elizabeth A., assignor.)
Eaton Manufacturing Company. (See Snell, Lyle K., assignor.)
Eberling, Charles M., Cleveland, Ohio. Machine for molding and pressing bricks or blocks. 1,922,474; Aug. 15.
Eckberg, Swan P., Ames, Iowa. Power propelled mower. 1,922,284; Aug. 15.
Eckert, Paul, Cologne, assignor to Eckert & Ziegler G. m. b. H., Cologne-Braunsfeld, Germany. Extrusion molding press. 1,922,937; Aug. 15.
Eckert & Ziegler G. m. b. H. (See Eckert, Paul, assignor.)
Eclipse Machine Company. (See Marcus, Charles, assignor.)
Economic Machinery Company. (See Fenner, James O., assignor.)
Edison, Thomas A., Incorporated. (See Schallis, Charles A., assignor.)
Edwards & Deutsch Lithographing Company. (See Fairbanks, Clarence T., assignor.)
Edwards, John S., South Bend, Ind. Fifth wheel construction. 1,922,359; Aug. 15.
Egry Register Company, The. (See Stern, M. C., and Pfeiffer, assignors.)
Ehlen, Harry H., Portland, Oreg. Attachment for portable drills. 1,922,532; Aug. 15.
Ehlert, Paul, and J. Fassler, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany. Crystal holder or setting. 1,922,032; Aug. 15.
Ehret, Cornelius D., Philadelphia, Pa. Radio receiving apparatus. 1,922,155; Aug. 15.
Ehrhart, Raymond N., Pittsburgh, Pa. Condenser. 1,922,843; Aug. 15.
Eisler Electric Corporation. (See Peterson, J. E., and Van Beke, assignors.)
Electro Dynamic Company. (See Mudge, Charles A., assignor.)
Electrolux Servel Corporation. (See Hedlund, William T., assignor.)
Electrolux Servel Corporation. (See Randel, Bo F., assignor.)
Electromatic Typewriters, Inc. (See Thompson, R. G., and Crumrine, assignors.)
Elliott Addressing Machine Company. (See Elliott, Harman P., assignor.)
Elliott, Fred S., assignor of one-half to W. B. Phillips, Lansing, Mich. Bag holder. 1,922,988; Aug. 15.

Elliott, Harmon P., Watertown, Mass., assignor to Elliott Addressing Machine Company. Inking mechanism for printing apparatus. 1,922,533; Aug. 15.
Ellis, Arthur L., New Rochelle, N. Y., and D. R. Francis, assignors to The Waterbury Tool Company, Waterbury, Conn. Variable speed gear transmission. 1,922,887; Aug. 15.
Ellis-Foster Company. (See Layng, T. E., and Youker, assignors.)
Ellis-Foster Company. (See Lougovoy, Boris N., assignor.)
Ellis, George H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Production of pattern effects upon textile fabrics or other materials. 1,922,727; Aug. 15.
Ellis, George H., and W. B. Miller, Spondon, near Derby, England, assignors to Celanese Corporation of America. Treatment of textile materials. 1,922,033; Aug. 15.
Ellis, George H. and W. B. Miller, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of pattern effects upon textile fabrics or other materials. 1,922,728; Aug. 15.
Ellsworth, John E. and J. H., New Castle, Pa. Heat exchange device. 1,922,534; Aug. 15.
Ellsworth, Joseph H. (See Ellsworth, John E. and J. H.)
Elmer, Lloyd A., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coupling device. 1,922,669; Aug. 15.
Elssner, Richard. (See Wadewitz, M., and Elssner.)
Elssner, Richard, and H. L. Johnson, Elizabethton, Tenn., assignors to American Glanzstoff Corporation, New York, N. Y. Manufacture of filaments, threads, etc. 1,922,910; Aug. 15.
Elwell, Harry A., Danville, Ill. Automobile jack. 1,922,475; Aug. 15.
Emerson Electric Mfg. Co., The. (See Persons, Lawrence M., assignor.)
Engelbertz, William H., Pittsburgh, Pa. Billet handling in continuous heating furnaces. 1,922,888; Aug. 15.
Englander Spring Bed Company. (See Bebry, Percival P., assignor.)
English, John. (See Bolton, Arthur, assignor.)
Epstein, Joshua, Philadelphia, Pa. Heat exchange device. 1,922,844; Aug. 15.
Erickson, Ellis O., Los Angeles, Calif., assignor to Claude Neon Electrical Products Corporation, Ltd., Wilmington, Del. Producing quartz seals. 1,922,535; Aug. 15.
Erickson, Ellis O., Pasadena, Calif., assignor to Claude Neon Electrical Products Corporation, Ltd., Wilmington, Del. Quartz seal and producing the same. 1,922,536; Aug. 15.
Ericson, Erland W., assignor to The Merrill Company, San Francisco, Calif. Fluid meter. 1,922,423; Aug. 15.
Erkes, Joseph, assignor to Collins & Aikman Corporation, Philadelphia, Pa. Fabric. Des. 90,480; Aug. 15.
Escott, Alexander J., assignor to Siemens Brothers & Company Limited, London, England. Automatic telephone system. 1,922,237; Aug. 15.
Esposito, Otto. (See Castellano, G., and Esposito.)
Essley, Elisha P., Hinsdale, Ill. Photographic paper. 1,922,670; Aug. 15.
Esty, Edward T., et al. (See Henne, A. H., and Clark, assignors.)
Evans, Seth, assignor to Hughes Tool Company, Houston, Tex. Indexing device for welders. 1,922,424; Aug. 15.
Evans, Seth, assignor to Hughes Tool Company, Houston, Tex. Device for registering and feeding objects to a magazine. 1,922,425; Aug. 15.
Everett, Arthur C., Boston, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Packaging machine. 1,922,762; Aug. 15.
Everstam, Edit A., née Ericsson. (See Everstam, Johan G. and E. A.)
Everstam, Johan G., and E. A. Everstam, née Ericsson, assignors to Aktiebolaget Svenska Stötdämparefabriken, Stockholm, Sweden. Hydraulic shock absorber. 1,923,031; Aug. 15.
Eyston, George E. T., assignor to Powerplus (1927) Limited, London, England. Rotary pump machine. 1,922,797; Aug. 15.
Fabrizio, Achillo, Havre de Grace, Md. Multiple shot aerial salute. 1,922,156; Aug. 15.
Fageston, Isaac, London, England. Apparatus for gas analysis. 1,922,939; Aug. 15.
Fahrney, Emery H., Chicago, Ill. Glass tube cutter. 1,922,426; Aug. 15.
Fairbanks, Clarence T., assignor to Edwards & Deutsch Lithographing Company, Chicago, Ill. Display holder. 1,922,476; Aug. 15.
Fairbanks, Morse & Co. (See Dehn, William C., assignor.)
Fairbanks, Morse & Co. (See Rosner, Adolph, assignor.)
Fairchild, Charles N., Milford, Conn., assignor to Fairchild Lock Corporation. Ignition control lock. 1,922,574; Aug. 15.
Fairchild Lock Corporation. (See Fairchild, Charles N., assignor.)
Fairmount Tool and Forging Company, The. (See Kroecker, Jacob J., assignor.)
Falk, Morris, Fitchburg, Mass. Lock. 1,922,889; Aug. 15.
Falley, Samuel J., Rockford, Ill. Pelt stretcher. 1,922,671; Aug. 15.
Fansteel Products Company. (See Hunter, Frederick L., jr., assignor.)
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor governor. 1,922,911; Aug. 15.
Farrington, James. (See Miller, F. S., and Farrington.)
Fassler, Josef. (See Ehlert, P., and Fassler.)
Fast, August C., assignor to Car-Kra Corporation, Detroit, Mich. Window construction. 1,922,860; Aug. 15.
Fazekas, Anton, San Francisco, Calif. Combination illuminated house number plate, letter drop opening, and signal push button. Des. 90,481; Aug. 15.
Feehan, Thomas A., Trenton, assignor to Ajax Electrothermic Corporation, Ajax Park, N. J. Protective device for electric induction furnaces. 1,922,034; Aug. 15.
Feiler, Paul. (See Winkler, P., Haeuber, and Feiler.)
Feldman, Charles L., et al. (See Smith, Hebert, assignor.)
Felts, Clarence T. Jackson, Mich. Hand mower. 1,922,126; Aug. 15.
Fenner, James O., assignor to Economic Machinery Company, Worcester, Mass. Label follower mechanism. 1,922,575; Aug. 15.
Fenner, James O., assignor to Economic Machinery Company, Worcester, Mass. Overhead bottle guide for a labeling machine. 1,922,576; Aug. 15.
Fenner, James O., assignor to Economic Machinery Company, Worcester, Mass. Bottle labeling machine. 1,922,577; Aug. 15.
Fernandes, Harry J., Monroe, La. Game. 1,922,578; Aug. 15.
Ferranti, Inc. (See Batt, Frederick H., assignor.)
Ferris, Howard J., Harvard, Ill. Milking parlor stall. Des. 90,482; Aug. 15.
Ferris, Walter, Milwaukee, assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Power excavator. 1,922,285; Aug. 15.
Fick, Reinhold. (See Munch, E. Nicolai, Fick, and Reppe.)
Filippo, Hendrik, Eindhoven, Netherlands, assignor to Radio Corporation of America. Discharge tube. 1,922,672; Aug. 15.
Filippo, Hendrik, Eindhoven, Netherlands, assignor to Radio Corporation of America. Reducing electrical leakage in discharge tubes. 1,922,673; Aug. 15.
Firestone Tire and Rubber Company. (See Hargraves, Albert, assignor.)
Firestone Tire & Rubber Company, The. (See Stevens, Horace D., assignor.)
Firth-Sterling Steel Company. (See Schultz, William J., assignor.)
Fisher, Elbert E., and M. A. Baernstein, assignors to National Pigments and Chemical Company, St. Louis, Mo. Making clay products. 1,922,083; Aug. 15.
Fix, Earl L. (See Kamerer, J. W., and Fix.)
Flack, Ole J., Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,922,845; Aug. 15.
Flad, Artur, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Wernewerk Siemensstadt, near Berlin, Germany. Telephone system. 1,922,199; Aug. 15.
Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Control apparatus for pumps. 1,922,427; Aug. 15.
Flind, Herbert C., Wimbledon, England. Construction of motive power engines and pumps. 1,922,477; Aug. 15.
Florence Stove Company. (See Bradbury, William T., assignor.)
Foley, John R., New York, N. Y. Pail silencer. 1,922,127; Aug. 15.
Ford, T. B., Limited. (See Vivian, George S., assignor.)
Forged-Trak Co. (See Kuchar, Joseph, assignor.)
Fostoria Glass Company. (See Bottome, Edgar M., assignor.)
Fouquet, William F., assignor to Projection Optics Co., Rochester, N. Y. Adjustable mount for projecting lenses. 1,922,537; Aug. 15.
Fowler, Thomas C., Mount Albert, Auckland, assignor to Fowler's Automatic Advertising Limited, Auckland, New Zealand. Advertising device. 1,922,579; Aug. 15.
Fowler's Automatic Advertising Limited. (See Fowler, Thomas C., assignor.)
Fox, Cyril A., Oakmont, Pa. Grinding track rails. 1,923,020; Aug. 15.
Fox, John H., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Plate glass polishing block. 1,922,912; Aug. 15.
Fox, Lewis I., Metuchen, assignor to I. Kreielsheimer, Perth Amboy, N. J. Preventing cannibalism among poultry. 1,922,157; Aug. 15.
Fox, Martin, assignor to The Seng Company, Chicago, Ill. Extension table. 1,922,478; Aug. 15.
Francis, Charles C., and E. J. Sears, New York, N. Y. Apparatus for the automatic administration of medication. 1,922,941; Aug. 15.
Francis, Chas. E., Co. (See Francis, Harry G., assignor.)
Francis, Daniel R. (See Ellis, A. L., and Francis.)
Francis, Harry G., assignor to Chas. E. Francis Co., Rushville, Ind. Roll glue spreader. 1,922,675; Aug. 15.
Franck, Hans-Heinrich. (See Caro, N., Frank, and Franck.)
Franck, René, Selestat, France. Joining the ends of wire cloth. 1,929,940; Aug. 15.
Frank, Albert R. (See Caro, N., Frank, and Franck.)
Frank, Leo C., McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Air cooled combustion engine. 1,922,200; Aug. 15.

Franklin Development Company. (See Oberhuber, William F., assignor.)
Frech, Carl D., and F. F. Jueschke, Fort Wayne, Ind. Vapor circulating attachment for bathtubs. 1,922,798; Aug. 15.
Free, John W., Aliquippa, and R. Anderson, Coraopolis, assignors to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Apparatus for end-to-end welding of pipe. 1,922,913; Aug. 15.
Freed, Samuel, San Francisco, Calif. Dental appliance. 1,922,238; Aug. 15.
Freeland, Frank J., assignor to Round Oak Furnace Company, Dowagiac, Mich. Stove or range. 1,922,861; Aug. 15.
Freeman, William. (See Dell, F. P., and Freeman.)
Freund, Paul. (See Pulvermacher, Karl, assignor.)
Frey, Charles N. (See Gore, H. C., and Frey.)
Frick, Chester A., assignor to Glascock Brothers Mfg. Co., Muncie, Ind. Bottle refrigerator. 1,923,033; Aug. 15.
Frick, Chester A., and R. E. Baker, assignors to Glascock Brothers Mfg. Co., Muncie, Ind. Bottle refrigerator. 1,923,032; Aug. 15.
Friction Devices Company. (See Magee, C. L. C., Pfeiffer, Benjamin and R. S., assignors.)
Fried. Krupp Aktiengesellschaft. (See Wolf, Peter, assignor.)
Friendly, Herbert N., deceased, Portland, Oreg., Milton S. Friendly, and Central Republic Bank and Trust Company, executors. Telephone system. 1,922,701; Aug. 15.
Friendly, Milton, et al., executors. (See Friendly, Herbert N., assignor.)
Frigidaire Corporation. (See Hull, Harry B., assignor.)
Frigidaire Corporation. (See King, Jesse G., assignor.)
Frigidaire Corporation. (See Newill, Edward B., assignor.)
Frost, John G. G., assignor to The National Smelting Company, Cleveland, Ohio. Apparatus for smelting aluminum. 1,922,426; Aug. 15.
Frost, John G. G., assignor to The National Smelting Company, Cleveland, Ohio. Melting aluminum. 1,922,429; Aug. 15.
Frozen Confections, Inc. (See West, John W., assignor.)
Fruehauf Trailer Company. (See Reid, Frederick M., assignor.)
Fuller Lehigh Company. (See Mayo, Dana H. N., assignor.)
Fuschi, Antonio, assignor of one-half to F. S. Beale, Los Angeles, Calif. Combination vocal piano. 1,922,239; Aug. 15.
Gallon Metallic Vault Co., The. (See Smith, Ralph E., assignor.)
Galle, Ernst. (See Mittasch, A., Stern, and Galle.)
Game, Karl P., assignor to Sears, Roebuck and Co., Chicago, Ill. Shoe and making the same. 1,922,480; Aug. 15.
Gardner, Prince A., jr., St. Louis, Mo. Bill fold. 1,922,619; Aug. 15.
Garrison Fire Detecting System, Inc. (See Lindsey, William D., assignor.)
Gasoline Products Company. (See Davis, Albert G., assignor.)
Gauger, Frank A., R. W. Johnson, and A. Neuser, Milwaukee, Wis., assignors, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Pilot and burner control apparatus. 1,922,201; Aug. 15.
Gaus, George E., Washington, D. C., dedicated to the free use of the Government and the people. Affixing identification tags. 1,922,799; Aug. 15.
Gay, Norman H., Los Angeles, Calif. Combination receiver and regenerator unit for refrigerating plants. 1,922,942; Aug. 15.
Gebhardt, Wilhelm. (See Ortner, O., Münsterer, Gebhardt, and Keller.)
Gee, William P., Plainfield, N. J., assignor to The Texas Company, New York, N. Y. Reconditioning filter-aid material. 1,923,021; Aug. 15.
Geibel, John F., assignor to Master Metal Products, Inc., Buffalo, N. Y. Sanitary waste can. 1,922,729; Aug. 15.
Gekler, Eugene F., Grover Hill, Ohio. Temperature alarm. 1,922,580; Aug. 15.
General Aniline Works, Inc. (See Bergdolt, A., and Ballauf, assignors.)
General Aniline Works, Inc. (See Koehler, Erich, assignor.)
General Aniline Works, Inc. (See Kunz, M. A., Koeberle, and Berthold, assignors.)
General Aniline Works, Inc. (See Pfeffer, Ernst, assignor.)
General Aniline Works, Inc. (See Torinus, Gustav, assignor.)
General Chemical Company. (See Thompson, Alfred P., assignor.)
General Electric Company. (See Caughey, Reed J., assignor.)
General Electric Company. (See Crago, Harry E., assignor.)
General Electric Company. (See De Vries, Walter, assignor.)
General Electric Company. (See Huil, John I., assignor.)
General Electric Company. (See Prince, David C., assignor.)
General Electric Company. (See Rhea, Thomas R., assignor.)
General Electric Company. (See Shoults, David R., assignor.)
General Electric Company. (See Tengström, Hans, assignor.)
General Machinery Corporation. (See Byerlein, Arthur A., assignor.)
General Motors Corporation. (See Brittain, Richard J., jr., assignor.)
General Motors Corporation. (See Doane, Harry C., assignor.)
General Motors Corporation. (See Hutchinson, Philip H., assignor.)
General Motors Research Corporation. (See Dickson, John B., assignor.)
General Motors Research Corporation. (See Hallett, George E. A., assignor.)
General Motors Research Corporation. (See Pierce, Earl R., assignor.)
General Sheet Metal Works, Inc. (See Anderson, John W., assignor.)
Genjack, Conrad, North Vancouver, British Columbia, Canada. Ticket rack. 1,922,158; Aug. 15.
Gerow, James W., assignor of one-half to Charles A. Stephens, Reno, Nev. Self retaining catheter and drainage tube. 1,922,084; Aug. 15.
Gevert, Richard B., Chicago, Ill. Hammer. 1,922,890; Aug. 15.
Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Flexible boot for universal joints. 1,922,431; Aug. 15.
Gibbs, Robert A., jr. (See Bentley, J. G., and Gibbs.)
Gibson, James, Euclid, assignor to Steel & Tubes, Inc., Cleveland, Ohio. Apparatus for lap welding tubing. 1,922,800; Aug. 15.
Giles, H. R., et al. (See Pippin, John W., assignor.)
Gillette Safety Razor Company. (See Baudis, Adolph, assignor.)
Gillette Safety Razor Company. (See Bodkin, Irving S., assignor.)
Gillingham, Charles A., Lakewood, Ohio, assignor to National Carbon Company, Inc. Battery hand lamp. 1,922,801; Aug. 15.
Glascock Brothers Mfg. Co. (See Frick, Chester A., assignor.)
Glascock Brothers Mfg. Co. (See Frick, C. A., and Baker, assignors.)
Gleason Works. (See Candee, Allan H., assignor.)
Glidden Company, The. (See Moore, C. G., and Drake, assignors.)
Glidden Company, The. (See O'Brien, W. J., and Drapeau, assignors.)
Glinn, Roy J., et al., executors. (See Kemnal, James.)
Glover, Benjamin R., and W. J. B. Nicholson, Tifton, Ga. Water heater. 1,922,581; Aug. 15.
Gobeille, Alfred A., assignor to Columbia Narrow Fabric Company, Shannock, R. I. Fabric. 1,922,943; Aug. 15.
Gobeille, Alfred A., assignor to Columbia Narrow Fabric Company, Shannock, R. I. Elastic woven fabric. 1,922,944; Aug. 15.
Goldberg, Abraham G., Boston, Mass. Wind deflector for vehicles. 1,922,159; Aug. 15.
Golding, John, Shinfield, England. Evaporating apparatus. 1,922,914; Aug. 15.
Goldstein-Wilkins Corporation. (See Pulitzer, Gustav M., assignor.)
Goldstein-Wilkins Corporation. (See Susi, Michelangelo A., assignor.)
Goodman, William L., Chicago, Ill., assignor to Bear-Stewart Co. Frying and cooking apparatus. 1,922,035; Aug. 15.
Goodrich, Anne A., Augusta, Ga. Folding desk, chair, and the like. 1,922,582; Aug. 15.
Goodwillie, David H., and E. L. Walters, assignors, by mesne assignments, to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Device for cutting sheet material. 1,922,620; Aug. 15.
Gore, Herbert C., Scarsdale, and C. N. Frey, New York, N. Y., assignors to Standard Brands, Incorporated, Dover, Del. Preparing a wort. 1,922,780; Aug. 15.
Goudey, Enos G., Newton, Mass. Bluing package. 1,922,085; Aug. 15.
Gould, Harry V., Bridgeport, Conn. Outlet box. 1,922,432; Aug. 15.
Government and the people of the United States. (See Gaus, George E.)
Government and the people of the United States of America. (See Heritage, C. C., Schafer, and Carpenter.)
Grasselli Chemical Company, The. (See Lawrence, Ralph E., assignor.)
Grasselli Chemical Company, The. (See Taylor, Edward A., assignor.)
Grasselli Chemical Company, The. (See Westbrook, Leon B., assignor.)
Gravert, William J., Long Island City, N. Y. Fastener for fire brick and the like. 1,922,945; Aug. 15.
Gray, Charles B., Millbourne, Pa. Motor-operated shear. 1,922,946; Aug. 15.
Green, John C., assignor of one-third to T. L. Owen, Dubach, La. Pipe tongs. 1,922,128; Aug. 15.
Greene, Charles J., Dallas, Tex. Tourist camp cottage. Des. 90,484; Aug. 15.
Greene, Charles J., Dallas, Tex. Tourist camp office building. Des. 90,485; Aug. 15.

Greene, Charles J., Dallas, Tex. Tourist camp cottage. Des. 90,486; Aug. 15.
Greene, Curtis, San Diego, Calif. Closure holding device. 1,922,676; Aug. 15.
Greene, Frederick E., assignor to The Greist Manufacturing Company, New Haven, Conn. Combined base and standard for a lamp. Des. 90,483; Aug. 15.
Greig, John W., Little Falls, N. J., and A. B. Bailey, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Radio direction finding system. 1,922,677; Aug. 15.
Greis, Alphonse M., Hartsdale, assignor of one-half to Walter L. Biery, New York, N. Y. Switching device. 1,922,946; Aug. 15.
Greist Manufacturing Company, The. (See Greene, Frederick E., assignor.)
Grenagle, James B., assignor of one-half to W. W. Varney, and one-half to Universal Alloys, Incorporated, Baltimore, Md. Metal deposition and product thereof. 1,922,847; Aug. 15.
Gricks, Rudolph, Woodbury, Conn. Colostomy appliance. 1,922,763; Aug. 15.
Grieb, Alfred, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine. 1,922,433; Aug. 15.
Griffith, Lawrence, Yonkers, N. Y. Fountain pen support. 1,922,891; Aug. 15.
Griscom-Russell Company, The. (See Dewald, Edward A., assignor.)
Groff, Joseph C., New York, N. Y. Fuel injecting pump for Diesel and other like forms of self-ignition engines employing airless or "solid"-injection of liquid fuel substances. 1,922,538; Aug. 15.
Groff, Joseph C., Allentown, Pa. Fuel supplying pump for internal combustion engines of the airless fuel injection type. 1,922,539; Aug. 15.
Gronbech, Hans P., Pacific Beach, Calif. Composite window sash and screen. 1,922,286; Aug. 15.
Grotte, Helene, Norwood, N. Dak. Nipple everter. 1,922,947; Aug. 15.
Gruber, William R., assignor to "Health" Ray Mfg. Co., Inc., New York, N. Y. Arc lamp. 1,922,036; Aug. 15.
Grunwald, Albert C. (See Birr, R. G., and Grunwald.)
Gueydan, Arthur, Echandens, near Lausanne, Switzerland. Amusement apparatus. 1,922,802; Aug. 15.
Gundlach, Karl, assignor to the firm of Carl Zeiss, Jena, Germany. Indexing glass photomechanically 1,922,434; Aug. 15.
Haas, William F., Rockaway, Long Island, assignor to B. Blumenthal & Co. Inc., New York, N. Y. Button. Des. 90,487; Aug. 15.
Habishaw Cable and Wire Corporation. (See Del Mar, William A., assignor.)
Haeuber, Hans. (See Winkler, F., Haeuber, and Feiler.)
Haga, Elizabeth A., Berwyn, Ill., assignor to Earnshaw Knitting Company, Newton, Mass. Restraining device. 1,923,001; Aug. 15.
Hagan, George J., Company. (See Knopf, Julius R., assignor.)
Haglund, Gustaf, assignor to Patentaktiebolaget Grondal-Ramen, Stockholm, Sweden. Process at the sulphite cellulose digestion, of removing turpentine and other volatile matters present in the chips. 1,922,160; Aug. 15.
Hails, Daniel T., Coral Gables, Fla. Multiple coin vending machine. 1,922,915; Aug. 15.
Hale & Kilburn Co. (See Hansen, Conrad T., assignor.)
Hale, William J., assignor to The Dow Chemical Company, Midland, Mich. Manufacture of phenyl phenols. 1,922,695; Aug. 15.
Hall, W. F., et al. (See Pippin, John W., assignor.)
Hall-Brown, Archibald, et al., executors. (See Kemnal, James.)
Hall, Ernest A., and W. E. Heuer, assignors to The Hall Manufacturing Company, Toledo, Ohio. Cylinder working tool. 1,922,202; Aug. 15.
Hall Manufacturing Company, The. (See Hall, E. A., and Heuer, assignors.)
Haller, Robert, Riehen, near Basel, and A. Ruperti, assignors to Firm Society of Chemical Industry in Basle, Basel, Switzerland. Cellulose esters and making same. 1,922,287; Aug. 15.
Hallet, George E. A., assignor to General Motors Research Corporation, Detroit, Mich. Slide valve engine. 1,922,678; Aug. 15.
Halversen, Hans N., Vineland, N. J. Liquid recording gauge. 1,922,362; Aug. 15.
Hamann, William, Irondequoit, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Seam pressing machine. 1,922,288; Aug. 15.
Hammer, Arthur, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany. Armature for magnetic loud speakers. 1,922,679; Aug. 15.
Handforth, Stanley I., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Concentrating nitric acid. 1,922,289; Aug. 15.
Handforth, Stanley L. (See Davis, C. W., Handforth, and Kirst.)
Hänel, Curt, Berlin-Neukolln, Germany. Ticket printing and registering device. 1,922,731; Aug. 15.
Hannan, Charles, jr., Washington, Pa. Attachment plug. 1,922,948; Aug. 15.
Hanneford, Frederick C., Morgan City, La. Combined storage and refrigeration apparatus. 1,922,129; Aug. 15.
Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Detection of frequency modulated signals. 1,922,290; Aug. 15.
Hansen, Conrad T., Bywood, assignor to Hale & Kilburn Co., Philadelphia, Pa. Partition construction. 1,922,694; Aug. 15.
Hapkins, Dimitri N., assignor of twenty per cent to M. A. Kerr, and ten per cent to C. L. Kincaid, Los Angeles, Calif. Rotary engine. 1,922,363; Aug. 15.
Hardage, Clarence A., assignor to Crouse-Hinds Company, Syracuse, N. Y. Single pole double throw quick make and break switch. 1,922,696; Aug. 15.
Hardinge Company. (See Mason, John L., assignor.)
Hardy, Charles, Pelham Manor, N. Y., assignor to Hardy Metallurgical Company. Treatment of metals. 1,922,037; Aug. 15.
Hardy, Charles, Pelham Manor, N. Y., assignor to Hardy Metallurgical Company. Stainless metal. 1,922,038; Aug. 15.
Hardy Metallurgical Company. (See Hardy, Charles, assignor.)
Hargreaves, Albert, assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Balloon tire. 1,922,291; Aug. 15.
Harley, Bertron G., assignor to E. B. Harley, Saco, Maine. Exhaust muffler for internal combustion engines. 1,922,848; Aug. 15.
Harley, Edna B. (See Harley, Bertron G., assignor.)
Harris, Albert, Massillon, assignor, by mesne assignments, to Republic Steel Corporation, Youngstown, Ohio. Guide for rolling mills. 1,922,803; Aug. 15.
Harris, Henry H., Detroit, Mich. Conveyer for use in heat treating furnaces. 1,922,039; Aug. 15.
Harris, Rex, Colman, S. Dak. Poultry feeder. 1,922,435; Aug. 15.
Harris-Seybold-Potter Company. (See Harrold, Charles W., assignor.)
Harris, Sidney E., Brooklyn, N. Y., and W. G. Christiansen, Bloomfield, N. J., assignors to E. R. Squibb & Sons, Brooklyn, N. Y. Di-phenyl phenolphthalein, substitution products thereof, and preparing same. 1,922,240; Aug. 15.
Harris, Thomas, Providence, R. I. Spinning apparatus. 1,922,949; Aug. 15.
Harris, Thomas, Providence, R. I. Spinning apparatus. 1,922,950; Aug. 15.
Harrison, Thomas E. (See Brown, R. P., and Harrison.)
Harrold, Charles W., assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Sheet feeder. 1,922,040; Aug. 15.
Harrold, Charles W., assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Sheet feeder. 1,922,041; Aug. 15.
Hart & Cooley Manufacturing Company. (See Heasley, Lloyd E., assignor.)
Hart, Thomas H., Springfield, assignor, by mesne assignments, to The Buckeye Incubator Manufacturing Company, Beachwood, Ohio. Brooder. 1,922,086; Aug. 15.
Hartman, Marie, St. Louis, Mo. Double action swing. 1,922,364; Aug. 15.
Hartness, James, Springfield, Vt. Gauging of screw threads. 1,922,849; Aug. 15.
Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Railway draft rigging. 1,922,732; Aug. 15.
Haserodt, Oscar P., Elyria, Ohio. Golfer's stance appliance. 1,922,180; Aug. 15.
Hasselkus, William, assignor to Cole Service Plan, Inc., New York, N. Y. Speed transmission. 1,922,241; Aug. 15.
Hasty, Dozier F., Atlanta, Ga. Combination wrench. 1,922,680; Aug. 15.
Haupt, Wallace H. (See Robinson, J. F., Chilcote, and Haupt.)
Hawley, William G., Elmira, N. Y. Rotary pump. 1,922,951; Aug. 15.
Hazel-Atlas Glass Company. (See Smith, Frasier, assignor.)
"Health" Ray Mfg. Co. (See Gruber, William R., assignor.)
Heany, John A., New Haven, Conn., assignor, by mesne assignments, to Heany Transmission Company. Transmission mechanism. 1,922,804; Aug. 15.
Heany Transmission Company. (See Heany, John A., assignor.)
Heasley, Lloyd E., Holland, Mich., assignor to Hart & Cooley Manufacturing Company, Chicago, Ill. Friction hinge. 1,922,365; Aug. 15.
Heath, Sheldon B., assignor to The Dow Chemical Company, Midland, Mich. Prepared calcium chloride and making same. 1,922,697; Aug. 15.
Hedlund, William T., Mount Vernon, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,922,203; Aug. 15.
Heffernan, Frank A., assignor to The New Departure Manufacturing Company, Bristol, Conn. Separator for antifriction bearings. 1,922,540; Aug. 15.
Hegan, Horace J., and J. H. Taylor, Coventry, assignors to Courtaulds Limited, London, England. Manufacture and production of filaments, threads, bands, and the like from viscose. 1,922,952; Aug. 15.

Heidel, Kurt, Breyell, assignor to the firm Plueschweberei Grefrath Aktiengesellschaft, Grefrath near Krefeld, Germany. Machine for darning faulty places in plush and like fabrics. 1,922,131; Aug. 15.
Heim, Lewis R., Danbury, Conn. Bearing construction and making the same. 1,922,805; Aug. 15.
Heinrich, Louis E., Beaumont, Tex. Electric motor. 1,922,806; Aug. 15.
Heise, Arthur R., Woodbridge, Conn., assignor to The Wm. Scholl Horn Company, New York, N. Y. Removing tool for sheet binding staples. 1,922,681; Aug. 15.
Heiser, Henry C., assignor to The Astrup Company, Cleveland, Ohio. Awning arm bracket. 1,922,764; Aug. 15.
Heitman, Max F. C., assignor to The Bode-Cummins Mfg. Company, Louisville, Ky. Hood fastener. 1,922,242; Aug. 15.
Heltzel, John N., Warren, Ohio. Concrete form. 1,922,584; Aug. 15.
Henne, Adolf H., and D. M. Clark, assignors to E. T. Esty and J. A. Crotty, Worcester, Mass. Six-thread striping machine. 1,922,850; Aug. 15.
Henricks, Harold H., Youngstown, assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Railway car metal door. 1,922,042; Aug. 15.
Henricksen, Bjarne, North Bergen, N. J., assignor to Sedgwick Machine Works, Incorporated, Poughkeepsie, N. Y. Electrically driven dumb waiter, etc. 1,923,084; Aug. 15.
Henry Manufacturing Co. (See Henry, Raymond, assignor.)
Henry, Raymond, Moline, Ill., assignor to Henry Manufacturing Co., Davenport, Iowa. Spring connection. 1,922,765; Aug. 15.
Hercules Powder Company. (See Crater, Willard De C., assignor.)
Heritage, Clark C., Rumford, Me., E. R. Schafer, Madison, Wis., and L. A. Carpenter, Rumford, Me., dedicated to the Government and the people of the United States of America. Separating bast fibers from shives. 1,922,366; Aug. 15.
Hermani, Henry, Baltimore, Md., assignor, by mesne assignments, to American Can Company, New York, N. Y. Attaching keys and the articles. 1,922,916; Aug. 15.
Herrington, John A., assignor to Hughes Tool Company, Houston, Tex. Flushing device for well drills. 1,922,436; Aug. 15.
Hertzberg, Harry, New York, N. Y. Mop. 1,922,621; Aug. 15.
Herzmann, Otto, Essen, Germany. Cover for the openings of cooking stove hot plates. 1,922,243; Aug. 15.
Heuer, William E. (See Hall, E. A., and Heuer.)
Hibbard, Lloyd J. (See Cowin, S. H., and Hibbard.)
Hiester, Theodore M., assignor to United Aircraft Products, Inc., Dayton, Ohio. Head for forming rolled and extruded metal articles. 1,922,087; Aug. 15.
Hiester, Theodore M., assignor to United Aircraft Products, Inc., Dayton, Ohio. Mechanism for extruding and rolling metal. 1,922,088; Aug. 15.
Highway Form Company. (See Trancbell, Jacob J., assignor.)
Hile, Leslie M., Benton Harbor, Mich. Rectangular basket. 1,922,807; Aug. 15.
Hile, Leslie M., Benton Harbor, Mich. Basket handle. 1,922,808; Aug. 15.
Hile, Leslie M., Benton Harbor, Mich. Basket handle. 1,922,809; Aug. 15.
Hillie, Frederick, Los Angeles, Calif. Garment hanger. 1,922,161; Aug. 15.
Himberger, Earl W., assignor to Pacific Marine Supply Company, Seattle, Wash. Compact portable power pump. 1,922,437; Aug. 15.
Hines, John, Astoria, assignor to Segal Lock & Hardware Co., Inc., New York, N. Y. Lock. 1,922,043; Aug. 15.
Hitzfeldt, Henry J. (See Sherig, S., and Hitzfeldt.)
Hobart Manufacturing Company, The. (See Roush, Lee, assignor.)
Hoerle, William F., and E. J. Pardon, assignors to Union Hardware Company, Torrington, Conn. Fish rod handle. 1,923,035; Aug. 15.
Hoffman Beverage Company. (See Nordstrom, Elof, assignor.)
Hoffman, Martin. (See Maul, P. J., and Hoffman.)
Hoffstetter, Carl H., and R. F. Hoffstetter, Erie, Pa. Broiler oven. 1,922,585; Aug. 15.
Hoffstetter, Carl H., and R. F. Hoffstetter, Erie, Pa. Gas range. 1,922,586; Aug. 15.
Hoffstetter, Carl H., and R. F. Hoffstetter, Erie, Pa. Oven door construction. 1,922,587; Aug. 15.
Hoffstetter, Robert F. (See Hoffstetter, Carl H., and R. F.)
Hosrafe, William J., and J. E. Stiles, Sacramento, Calif. Device to control wrapping twine. 1,922,292; Aug. 15.
Hollander, Aladar, Berkeley, assignor to Byron Jackson Co., Los Angeles, Calif. Tensioning spider for deep-well turbines. 1,922,583; Aug. 15.
Holleman, Charles H., Akron, Ohio. Display rack. 1,922,892; Aug. 15.
Holmes, Bradford B., Stonington, Conn. Refrigeration. 1,922,182; Aug. 15.
Holmes, Edgar E., and T. M. Shelton, assignors to The American Gyro Co., Denver, Colo. Propeller. 1,923,054; Aug. 15.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,922,293; Aug. 15.
Holophane Company. (See Rolph, Thomas W., assignor.)
Holstrum, Walter. (See Rendelman, J., and Holstrum.)
Hols, August, Irvington, N. J. Converting potassium chloride into potassium sulphate. 1,922,682; Aug. 15.
Honey, Alfred E., Ilford, assignor to J. Stone & Company Limited, Deptford, England. Electric regulator. 1,922,294; Aug. 15.
Hoobler, Vernon F., Cleveland, Ohio. Nursing bottle support. Des. 90,488; Aug. 15.
Hookless Fastener Company. (See Nicholson, Robert H., assignor.)
Hoover, Claude A. (See Stevenson, George, assignor.)
Hopkins, Robert K., St. George, Staten Island, assignor to The M. W. Kellogg Company, New York, N. Y. Tube rolling apparatus. 1,922,622; Aug. 15.
Hopmeier, Fritz. (See Munkert, Emil, assignor.)
Horsting, Bernard F., assignor to Simplex Shoe Tree Co., Chicago, Ill. Shoe form. 1,922,367; Aug. 15.
Horton, Benjamin E., et al. (See Dwofsky, Bernard, assignor.)
Horton, Donovan W., et al. (See Dwofsky, Bernard, assignor.)
Hotopp, Alfred H., jr., Caldwell, N. J., assignor to Wired Radio, Inc., New York, N. Y. Combined wired radio and space radio receiving system. 1,922,045; Aug. 15.
Hotopp, Alfred H., jr., Caldwell, N. J., assignor to Wired Radio, Inc., New York, N. Y. Wired radio receiving system. 1,922,623; Aug. 15.
Houglum, Henry S., Moorhead, Minn. Windshield heater for motor vehicles. 1,922,133; Aug. 15.
Householder, Harvey E., Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Friction closure for containers. 1,922,953; Aug. 15.
Houseman, Harold E. (See Bristow, P. W., and Houseman.)
Hovey, Mark H., Madison, Wis., assignor to The Union Switch & Signal Company, Swissvale, Pa. Slow acting relay. 1,922,089; Aug. 15.
Hovey, Mark H., Madison, Wis., assignor to The Union Switch & Signal Company, Swissvale, Pa. Signaling system. 1,922,090; Aug. 15.
Howard, James H., assignor to J. H. McEvoy & Company, Houston, Tex. Releasable oil well packer. 1,922,044; Aug. 15.
Howard, William S., assignor to B. Nicoll & Company, Incorporated, New York, N. Y. Self-loading dumpbody. 1,922,851; Aug. 15.
Hoyt, Hazen L., Great Neck, N. Y. Barrel. 1,922,588; Aug. 15.
Hubbard, Barton D., Portland, Me., assignor to Brown Company, Berlin, N. H. Bale covering and preparing same. 1,922,046; Aug. 15.
Hufford, Charles, Detroit, Mich. Reenforcement for a water bucket mop wringing device. 1,922,738; Aug. 15.
Hughes Industries Co. Ltd. (See Crespinel, W. T., and Prynne, assignors.)
Hughes, Ralph C., assignor to Reynolds Gas Regulator Co., Anderson, Ind. Fluid pressure regulator. 1,922,954; Aug. 15.
Hughes Tool Company. (See Evans, Seth, assignor.)
Hughes Tool Company. (See Fletcher, Harold W., assignor.)
Hughes Tool Company. (See Herrington, John A., assignor.)
Hughes Tool Company. (See Ricker, Norman H., assignor.)
Hull, Harry B., assignor to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,922,091; Aug. 15.
Hull, Harry B., assignor to Frigidaire Corporation, Dayton, Ohio. Compressor unit. 1,922,092; Aug. 15.
Hull, John I., Schenectady, N. Y., assignor to General Electric Company. Adjustable speed alternating current commutator motor. 1,922,810; Aug. 15.
Humphner, Ferdinand W., Oak Park, assignor to Mid-States Gummed Paper Co., Chicago, Ill. Transparent seal. 1,922,767; Aug. 15.
Humphrey, Walter E., Jeannette, Pa., assignor to Pennsylvania Rubber Company. Apparatus for branding articles. 1,922,852; Aug. 15.
Hunciker, Karl, assignor to I. E. McCabe, Chicago, Ill. Switch cover. 1,922,698; Aug. 15.
Hund, August, West Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y. Space discharge tube and mounting therefor. 1,922,047; Aug. 15.
Hunter, Frederick L., jr., Lake Bluff, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Electrode and making the same. 1,922,244; Aug. 15.
Hunter, Frederick L., jr., Lake Bluff, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Manufacture of gaseous conduction devices. 1,922,245; Aug. 15.
Hunter, William O., Riverside, Calif. Inside glare shield. 1,922,265; Aug. 15.
Hurd, Norman B., Newington, assignor to The American Hardware Corporation, New Britain, Conn. Lock and latch. 1,922,438; Aug. 15.
Hurwitz, Samuel, Wilkes-Barre, Pa. Ophthalmic mounting. 1,922,766; Aug. 15.

Hurxthal, Alpheus O. (See Kerst, E. B., and Hurxthal.)
Hutchings, Le Roi E., Tonawanda, assignor to Remington Rand Inc., Buffalo, N. Y. Loose leaf binder. 1,923,022; Aug. 15.
Hutchings, Le Roi E., Tonawanda, assignor to Remington Rand Inc., Buffalo, N. Y. Loose leaf binder. 1,923,023; Aug. 15.
Hutchinson, Philip H., Montclair, N. J., assignor to General Motors Corporation, Detroit, Mich. Gauge. 1,922,093; Aug. 15.
Hyslop, Samuel, Newton, Mass. Thread and yarn clearer. 1,922,683; Aug. 15.
Hyslop, Samuel, Newton, Mass. Locking device for thread clearers. 1,922,684; Aug. 15.
I. G. Farbenindustrie Aktiengesellschaft. (See Mittasch, A., Stern, and Galle, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Munch, E., Nicolai, Fick, and Reppe, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schmidt, O., and Meyer, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Winkler, F., Haenber, and Feiler, assignors.)
I-X-L Metal Spring Cover Company. (See Knechle, Ernst, assignor.)
Ignition Manufacturing Company, The. (See Daubenspeck, William J., assignor.)
Imschweiler, John, Inglewood, Calif. Trap nest front. 1,922,734; Aug. 15.
Indian Motorcycle Company. (See Weaver, G. B., and Knaut, assignors.)
Individual Drinking Cup Company. (See Carew, Herman, assignor.)
Industrial Patents Corporation. (See Yoder, Benjamin H., assignor.)
Ingalls Steel Products Company. (See Lucy, Thomas A., assignor.)
Ingersoll-Rand Company. (See McAllister, Raymond C., assignor.)
Ingersoll-Rand Company. (See Newcomb, Wallace K., assignor.)
Inland Manufacturing Company, The. (See Geyer, Harvey D., assignor.)
International Motor Company. (See Scragg, George H., assignor.)
International Resistance Company. (See Müller, John H., assignor.)
Jackson, Paul E., Los Angeles, Calif. Printing press. 1,922,439; Aug. 15.
Jacobs, Walter T., Freeport, Ill., assignor, by mesne assignments, to Big Rock Ranch Company, Los Angeles, Calif. Hearse. 1,922,094; Aug. 15.
Jacobsen, Jens P., Lyngby, Denmark, assignor to Standard Brands Incorporated, New York, N. Y. Air-excluding and antomatic drainage device. 1,922,048; Aug. 15.
Jacoby, Benjamin. (See Divney, J. J., and Jacoby.)
Jaicks, Wilson A., Chicago, Ill. Apparatus for mixing concrete. 1,922,368; Aug. 15.
James, Horace, et al., executors. (See Kemnal, James.)
Jarvis, W. B., Company. (See Ruppel, Frederick C., assignor.)
Jenkins Petroleum Process Company. (See Smith, Arthur D., assignor.)
Jenkins, Thomas A., Roselle Borough, N. J. Circulating display advertising apparatus. 1,922,541; Aug. 15.
Jennings, Chester S., and L. C. Allen, assignors to The Lamson Company, Syracuse, N. Y. Conveyer installation. 1,922,699; Aug. 15.
Jensen, Hans, Sarpsborg, Norway. Ski fastener. 1,922,955; Aug. 15.
Jensen, Milton O., Huntington Park, Calif. Direct reading manometer. 1,922,049; Aug. 15.
Johansen, Harry C., Michigan City, Ind., assignor to Sullivan Machinery Company. Tong. 1,923,010; Aug. 15.
Johns, Hyland R. (See Johnston, Robert T., assignor.)
Johnson, Albert M., assignor to Barnes Drill Co., Rockford, Ill. Machine tool. 1,922,246; Aug. 15.
Johnson, Alfred J., assignor to York Band Instrument Company, Grand Rapids, Mich. Valve structure. 1,922,685; Aug. 15.
Johnson, Arthur A., Bridgeport, Conn. Manifolding. 1,922,296; Aug. 15.
Johnson, Arthur S., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Liquid container. 1,922,297; Aug. 15.
Johnson, Carl W., Minneapolis, Minn. Closure for collapsible tubes. 1,922,204; Aug. 15.
Johnson, Charles E., assignor to The Piston Ring Company, Muskegon, Mich. Piston ring spreader. 1,922,269; Aug. 15.
Johnson, Charles H., assignor of one-half to A. E. Miller, Sacramento, Calif. Device for practicing golf. 1,922,735; Aug. 15.
Johnson, Clarence G., and H. C. Blodgett, assignors to Overhead Door Corporation, Hartford City, Ind. Door construction. 1,922,370; Aug. 15.
Johnson, Harold L. (See Elsener, R., and Johnson.)
Johnson, Raymond, Brooklyn, N. Y., and C. T. Siebs, Nutley, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Electrical connecter. 1,922,686; Aug. 15.
Johnson, Roy W. (See Gauger, F. A., Johnson, and Neuser.)
Johnston, Clarence L., Hillsborough, and M. M. Cohn, Los Gatos, Calif. Record sheet. 1,922,736; Aug. 15.
Johnston, Robert T., Plainfield, N. J., assignor to H. B. Johns, New York, N. Y. Shingle roof. 1,923,002; Aug. 15.
Jones, Aaron C. (See Urquhart, G. G., and Jones.)
Jones, Harry R., Brooklyn, N. Y. Handball glove. 1,922,095; Aug. 15.
Jones, Henry, et al. (See Jones, Jasper, assignor.)
Jones, Jasper, assignor of one-third to M. Jones and one-third to H. Jones, St. Louis, Mo. Window lock for limiting the opening distance of window sashes. 1,922,298; Aug. 15.
Jones, John L., Weymouth, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Finishing machine. 1,922,134; Aug. 15.
Jones & Laughlin Steel Corporation. (See Free, J. W., and Anderson, assignors.)
Jones, Marvin, et al. (See Jones, Jasper, assignor.)
Jones, Russell G., Jackson Heights, N. Y. Aircraft. 1,922,371; Aug. 15.
Jones, William S., and W. Braker, assignors to E. R. Squibb & Sons, Brooklyn, N. Y. 2-carboxy-5-amino-diphenyl. 1,922,205; Aug. 15.
Jones, William S., and W. Braker, assignors to E. R. Squibb & Sons, Brooklyn, N. Y. 2-carboxy-5-nitro-diphenyl. 1,922,206; Aug. 15.
Jones, William S., and W. Braker, assignors to E. R. Squibb & Sons, Brooklyn, N. Y. 2-cyano-5-nitro diphenyl. 1,922,207; Aug. 15.
Joslin, Pliny N., De Kalb, Ill. Adjustable concrete insert. 1,922,479; Aug. 15.
Jouffray, Alexander O. P., San Antonio, Tex. Necktie knot tying and retaining form. 1,922,956; Aug. 15.
Judson, Robert T., et al. (See Seitz, Wilford, assignor.)
Juengling, Karl F., Lakewood, Ohio, and H. A. Berg, Birmingham, Ala. Dust collector. 1,922,299; Aug. 15.
Juergens, John, and R. B. Benjamin, assignors to Benjamin Electric Manufacturing Company, Chicago, Ill. Shock absorbing socket. 1,922,687; Aug. 15.
Jueschke, Frank F. (See Frech, C. D., and Jueschke.)
Julius, Awdry F. (See Julius, George A. and A. F.)
Julius, George A. and A. F., Sydney, New South Wales, Australia. Apparatus for computing and indicating the ratio of variable quantities. 1,922,957; Aug. 15.
Jung, Henry, Hines, Ill. Preparing yeast raised dough for baking. 1,922,096; Aug. 15.
Jungk, Herbert G. Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Single-phase series railway motor and control system therefor. 1,922,737; Aug. 15.
Kabnick, Stuart, Philadelphia, Pa. Multiple ampulla. 1,922,811; Aug. 15.
Kadel, Byers W., Baltimore, Md., assignor, by mesne assignments, to The Symington Company, New York, N. Y. Draft rigging. 1,922,300; Aug. 15.
Kali-Chemie Aktiengesellschaft. (See Moos, Wilhelm, assignor.)
Kamerer, James W., and E. L. Fix, New Kensington, Pa., assignor to Duplate Corporation. Making laminated glass. 1,922,893; Aug. 15.
Kamrath, Herbert G., assignor to A C Spark Plug Company, Flint, Mich. Multistage type air cleaner. 1,922,688; Aug. 15.
Katzman Max, Utica, N. Y. Electric vaporiser. 1,922,958; Aug. 15.
Kearney & Trecker Corporation. (See Parsons, Fred A., assignor.)
Kégresse, Adolphe, Courbevoie, France. Endless track vehicle. 1,922,768; Aug. 15.
Kekich, Thomas M., Los Angeles, Calif. Treating liquid matte. 1,922,301; Aug. 15.
Keller, Karl. (See Ortner, O., Münsterer. Gebhardt, and Keller.)
Kelley, John R., assignor to The Kelley-Koett Manufacturing Company, Covington, Ky. Radiographic apparatus. 1,922,738; Aug. 15.
Kelley-Koett Manufacturing Company, The. (See Kelley, John R., assignor.)
Kellogg, M. W., Company, The. (See Hopkins, Robert K., assignor.)
Kelly, Harry G., Omaha, Nebr. Perforating machine. 1,922,248; Aug. 15.
Kemnal, James, deceased, Chislehurst, by L. L. Kemnal, Chislehurst, H. James, and R. J. Glinn, Blackheath, London, and Archibald Hall-Brown, Purley, England, executors, assignors to The Babcock & Wilcox Company, Bayonne, N. J. Water tube boiler. 1,922,663; Aug. 15.
Kemnal, Linda L., et al., executors. (See Kemnal, James.)
Kemp, C. M., Mfg. Co., The. (See Dunkak, Elmer B., assignor.)
Kennedy, Frank W., assignor to De Laval Steam Turbine Company, Trenton, N. J. Gear wheel. 1,922,812; Aug. 15.
Kenney, George M., and W. C., assignors to Kenney Manufacturing Company, Cranston, R. I. Bracket for curtain rods. 1,923,024; Aug. 15.
Kenney Manufacturing Company. (See Kenney, George M. and W. C., assignors.)
Kenney, William C. (See Kenney, George and W. C.)
Kercher, Arthur J., Berkeley, Calif. Electrical heating appliance. 1,922,440; Aug. 15.
Kern, Erwin, Wettingen, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Device for commutating direct current. 1,922,247; Aug. 15.

Kerr, Howard J., Westfield, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Vapor generator. 1,922,664; Aug. 15.
Kerr, John, Galt, Ontario, Canada. Stitching machine. 1,922,441; Aug. 15.
Kerr, Margaret A., et al. (See Hapkins, Dimitri N., assignor.)
Kerst, Edgar B., and A. O. Hurxthal, assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Knife oscillating device. 1,922,959; Aug. 15.
Kersting, Bernard H., Ben Avon, Pa., assignor to The Dravo Contracting Company. Drum weir. 1,922,097; Aug. 15.
Kilian, Frederick K., Syracuse, N. Y. Caster construction. 1,922,098; Aug. 15.
Kilian, Frederick K., Syracuse, N. Y. Caster for furniture and the like. 1,922,099; Aug. 15.
Kincaid, Clarence L., et al. (See Hapkins, Dimitri N., assignor.)
King, Aden J., assignor to King Laboratories, Inc., Syracuse, N. Y. Evacuation of electronic devices. 1,922,162; Aug. 15.
King, Benjamin J. (See McKay, J. C., and King.)
King, Dean W., San Francisco, Calif. Rear gun sight. 1,922,302; Aug. 15.
King, Jesse G., assignor to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,922,100; Aug. 15.
King, Jesse G., assignor to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,922,101; Aug. 15.
King Laboratories, Inc. (See King, Aden J., assignor.)
King, Lloyd E., Berwyn, Ill. Electric protective system for elevators and the like. 1,922,163; Aug. 15.
Kingston Products Corporation. (See Beal, Fay, assignor.)
Kinsbach, Frank, Houston, Tex. Load handling apparatus. 1,922,303; Aug. 15.
Kirkpatrick, James E., Grand Rapids, Mich. Chair or similar article. Des. 90,489; Aug. 15.
Kirst, William E. (See Davis, C. W., Handforth, and Kirst.)
Kislyn Corporation. (See Berthon, Rodolphe, assignor.)
Kissel, Hermann, Leipzig, Germany, assignor, by mesne assignments, to United Chromium, Inc., New York, N. Y. Electrolytic deposition of chromium. 1,922,853; Aug. 15.
Klein, Adolph, New York, N. Y. Cardboard box. 1,922,854; Aug. 15.
Klein, Silard, New York, N. Y. Coal burner and feed mechanism. 1,922,960; Aug. 15.
Kleinhens, Franz, Berlin-Treptow, Germany. Flying boat. 1,922,769; Aug. 15.
Klemin, Alexander. (See Rosenberg, S., and Klemin.)
Klocke, William H., Woodhaven, N. Y., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Bearing manufacture. 1,922,304; Aug. 15.
Knaut, William J. (See Weaver, G. B., and Knaut.)
Knefel, Stanley C., St. Louis, Mo. Boiler return and vacuum trap. 1,922,164; Aug. 15.
Knight, Raymond R., Toronto, Ontario, Canada. Apparatus for removing solids from sewage and other fluids. 1,922,442; Aug. 15.
Knopf, Julius R., assignor to George J. Hagan Company, Pittsburgh, Pa. Conveyer mechanism. 1,923,036; Aug. 15.
Knorpp Candy Company. (See Knorpp, Maxwell, assignor.)
Knorpp, Maxwell, Long Island City, assignor to Knorpp Candy Company, Brooklyn, N. Y. Package. 1,922,208; Aug. 15.
Knowles, Albert, assignor to Transit Mixers, Inc., San Francisco, Calif. Concrete mixer. 1,922,700; Aug. 15.
Knowlton, Theodore E., New York, N. Y. Method and apparatus for preventing offset in printing. 1,922,872; Aug. 15.
Knuvtila, Charles A., Newark, N. J. Flower pick. 1,922,165; Aug. 15.
Koch, Gustav H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc welding apparatus. 1,922,249; Aug. 15.
Koeberle, Karl. (See Kuns, M. A., Koeberle, and Berthold.)
Koehler, Erich, Leverkusen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Manufacture of amino-hdroxyanthraquinones. 1,922,480; Aug. 15.
Koehn, Nathaniel, Oakland, Calif. Valve head for air motors. 1,922,878; Aug. 15.
Koepke, Henry G., Chicago, Ill., assignor, by mesne assignments, to Standard Brands Incorporated, Dover, Del. Oiling system. 1,922,589; Aug. 15.
Kollath, Bernard. (See Sundt, E. V., and Kollath.)
Koons, Sydney R., Cleveland, Ohio. Packing and shipping device. 1,922,590; Aug. 15.
Kopp, Reinhold A., assignor to W. M. Welch Mfg. Co., Chicago, Ill. Wheatstone bridge. 1,922,209; Aug. 15.
Ko-Rect Posture Chair Company. (See Conant, Lawrence W., assignor.)
Kornbrath, Frederick, Hartford, Conn., assignor to Union Drawn Steel Company, Beaver Falls, Pa. Drawing die. 1,922,770; Aug. 15.
Koupal, Walter G., Tarentum, Pa., assignor to Pittsburgh Plate Glass Company. Glass rolling apparatus. 1,922,894; Aug. 15.
Kovats, John, assignor to The Leg-O-Matic Company, Bridgeport, Conn. Foldable chair. 1,922,305; Aug. 15.
Krassa, Paul, Santiago, Chile. Manufacturing caustic soda. 1,922,591; Aug. 15.
Kratzmaier, Paul T., Kansas City, Kans. Heat exchange apparatus. 1,922,443; Aug. 15.
Krauch, Carl, Ludwigshafen-on-the-Rhine, M. Pier, Heidelberg, and W. Simon, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J. Destructive hydrogenation of carbonaceous materials. 1,922,542; Aug. 15.
Krause, Arthur M., and J. J. Rounds, assignors of one-fifth to G. W. Ditmore, one-fifth to J. G. Moore, and one-fifth to A. Bibb, Albany, N. Y. Hot box arrester. 1,922,306; Aug. 15.
Krause, Norman R., assignor to J. I. Case Company, Racine, Wis. Corn harvesting machine. 1,922,874; Aug. 15.
Krause, Norman R., assignor to J. I. Case Company, Racine, Wis. Corn harvesting machine. 1,922,875; Aug. 15.
Krause, Norman R., assignor to J. I. Case Company, Racine, Wis. Corn harvesting machine. 1,922,876; Aug. 15.
Krebs Pigment and Color Corporation. (See McKinney, Robert M., assignor.)
Kreielsheimer, Irvin. (See Fox, Lewis I., assignor.)
Krinsky, Samuel, New York, N. Y. Water closet bowl and clean-out construction therefor. 1,922,961; Aug. 15.
Kristman, Nicholas A., Menlo Park, Calif. Bait holder. 1,922,702; Aug. 15.
Kroecker, Jacob J., assignor to The Fairmount Tool and Forging Company, Cleveland, Ohio. Tool kit holder. 1,922,102; Aug. 15.
Kuchar, Joseph, assignor to Forged-Trak Co., Chicago, Ill. Track for track laying wheels. 1,922,877; Aug. 15.
Kucklinsky, Frederick W. (See Allen, H. G., and Kucklinsky.)
Kuechle, Ernst, assignor, by mesne assignments, to I-X-L Metal Spring Cover Company, Milwaukee, Wis. Spring cover. 1,922,210; Aug. 15.
Kuns, Max A., Mannheim, K. Koeberle, and E. Berthold, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Production of halogen derivatives of dibenzopyrene quinones. 1,922,481; Aug. 15.
Kuns, Max A., Mannheim, K. Koeberle, and E. Berthold, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Halogendibenzopyrenequinones. 1,922,482; Aug. 15.
Kuppers, Carl, Culver City, Calif. Automatic coupling. 1,922,543; Aug. 15.
Kuwada, Gompei, Komedani-Mura, Kawabe-Gun, Japan. Mechanism for dry gas meters. 1,922,166; Aug. 15.
La Bour, Harry E., Elkhart, Ind. Pump. 1,922,050; Aug. 15.
La Delfa, Philip, Dansville, N. Y. Book support. Des. 90,490; Aug. 15.
Lambert, Homer T., Huntington, W. Va. Brake. 1,922,307; Aug. 15.
Lambert, Homer T., Huntington, W. Va. Power driven swiveled wheel. 1,922,962; Aug. 15.
Lamination Patents Corporation. (See Dike, Theodore W., assignor.)
Lamson Company, The. (See Jennings, C. S., and Allen, assignors.)
Lancaster Asphalt, Inc. (See Robinson, Thomas, assignor.)
Lane, George, New Haven, Conn., and J. E. Patterson, Poughkeepsie, N. Y. Apparatus for lens adjustment in double lens projection. 1,922,963; Aug. 15.
Lane, Weldon V., Asbury Park, N. J. Vehicle signal. 1,922,592; Aug. 15.
Lapidus, Robert H., Lakewood, Ohio, assignor to National Carbon Company, Inc. Primary electric cell. 1,922,483; Aug. 15.
Lapidus, Morris, Long Island City, N. Y., assignor, by mesne assignments, to Charles Miller, Esq. Shoe. 1,922,051; Aug. 15.
Lapp, William H., Ames, Iowa. Vaporizing apparatus. 1,922,771; Aug. 15.
Larsen, Charles, Astoria, N. Y. Wind deflector shield. 1,922,964; Aug. 15.
Larsson, Johan E., Copenhagen, Denmark, assignor to United Shoe Machinery Corporation, Paterson, N. J. Stitch marking device. 1,922,185; Aug. 15.
Lathrop, Harry D., Chicago, Ill. Cover loosening mechanism. 1,922,772; Aug. 15.
Lawrence, J. C. (See Chamberlain, Martin T., assignor.)
Lawrence, Ralph E., Wickliffe, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Aldehydeamine cinchona bark alkaloid inhibitors. 1,923,055; Aug. 15.
Lawrence, Ralph E., Wickliffe, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Condensation product of cinchona bark alkaloids with thiuram sulphides. 1,923,056; Aug. 15.

Lawrence, Ralph E., Wickliffe, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Aldehydeamine cinchona bark alkaloid condensation product. 1,923,057; Aug. 15.

Lawson, Harry B. (See Nye, Alvin F., assignor.)

Layng, Thomas E., Urbana, Ill., and M. A. Youker, Wilmington, Del., assignors to Ellis-Foster Company. Improving the quality of transformer oils. 1,922,103; Aug. 15.

Ledbetter, James C., Brooklyn, assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Garment press. 1,922,052; Aug. 15.

Lees, William H., Lowell, Mass. Colored tinsel fabric. 1,922,739; Aug. 15.

Lefebvre, Paul J. L. (See Defays, V. J. J., and Lefebvre.)

Leg-O Matic Company, The. (See Kovats, John, assignor.)

Leiva, Gaspar, Buenos Aires, Argentina. Electrical transformer. 1,922,593; Aug. 15.

Lemaire, Maurice H., Enmont, France. Apparatus for the leveling of railways. 1,922,895; Aug. 15.

Leonard, Cyril A. (See Leonard, Luke E. and Cyril A.)

Leonard, Luke E. and C. A., Utica, Mich. Rustic chair. Des. 90,491; Aug. 15.

Leray, Joseph J., West Warwick, R. I. Helicoplane and airplane. 1,922,167; Aug. 15.

Lester, Hope D., Miami, Fla. Transmission gear. 1,922,965; Aug. 15.

Levinsohn, Louis N., New York, N. Y. Package display stand. Des. 90,492; Aug. 15.

Libbey-Owens-Ford Glass Company. (See Goodwillie, D. H., and Walters, assignors.)

Libbey-Owens-Ford Glass Company. (See Reede, Joseph A., assignor.)

Libbey-Owens-Ford Glass Company. (See Schuts, H. R., and Robinson, assignors.)

Libbey, W. S., Company. (See Libbey, Winfield S., assignor.)

Libbey, Winfield S., Lewiston, Maine, assignor to W. S. Libbey Company. Fabric and making the same. 1,922,444; Aug. 15.

Lieberman, Maynard. (See Miller, C., and Lieberman.)

Lilienfeld, Leon, Vienna, Austria. Improving vegetable textile materials. 1,922,308; Aug. 15.

Lillard, William W., Ridgewood, N. J. Luminous sign. 1,922,309; Aug. 15.

Limousine Body Company. (See Menton, Stanley, assignor.)

Lincoln Electric Company, The. (See Dreese, Erwin E., assignor.)

Linderman, Andrew L., Pittsburgh, Pa., assignor to Neely Nut & Bolt Company. Lock nut. 1,922,378; Aug. 15.

Lindsay, Alexander C. (See Lindsay, F. P., and Lindsay.)

Lindsay, Felix P. and A. C., Chickasha, Okla. Combined shade and curtain holder. 1,922,136; Aug. 15.

Lindsey, William D., South Orange, N. J., assignor to Garrison Fire Detecting System, Inc., New York, N. Y. Electrical connection. 1,922,544; Aug. 15.

Line Material Company. (See Steinmayer, Alwin G., assignor.)

Link-Belt Company. (See Bryant, Jerrus M., assignor.)

Linnenbruegge, Hans G. H., Buffalo, N. Y. Forming screw-threaded members. 1,922,689; Aug. 15.

Lipetz, Alphonse, Saratoga Springs, N. Y. High powered internal combustion engine locomotive. 1,922,896; Aug. 15.

Lippstadt, Isabel G., New York, N. Y. Ring for attaching articles to clothing. 1,922,594; Aug. 15.

Little Bear Specialties Company. (See De Silva, Roberto, assignor.)

Locke, Sylvanus D., Bridgeport, and H. J. Stegeman, Fairfield, Conn. Automobile body. 1,922,545; Aug. 15.

Locollo, Luigi, and A. Morra, Plainfield, N. J. Automobile liecense tag holder. 1,922,595; Aug. 15.

Lombardo, Louis, Detroit, Mich. Automatic variable speed transmission. 1,922,624; Aug. 15.

London, Jacob M. (See Crawford, G. M., and London.)

Long, Armistead R., Scarbro, W. Va. Mine car. 1,922,310; Aug. 15.

Longfellow, Samuel H., Tulsa, Okla. Air inlet valve for internal combustion engines. 1,922,379; Aug. 15.

Lott, William A. (See Christiansen, W. G., and Lott.)

Lougheed, Victor, Washington, D. C. Aeroplane wing structure and making the same. 1,922,311; Aug. 15.

Lougovoy, Boris N., New York N. Y., assignor to Ellis-Foster Company. Resinous complex or composite of the urea aldehyde condensation type and their solutions. 1,922,690; Aug. 15.

Lounsbury, Harvey J., Glen Ellyn, assignor to W. H. Miner, Inc. Chicago, Ill. Railway draft rigging. 1,922,703; Aug. 15.

Lovekin, Luther D., Villa Nova, Pa. Fusible plug for steam boilers. 1,922,625; Aug. 15.

Lowell, John W., assignor to Benedict Stone Products Company, Chicago, Ill. Molding apparatus. 1,922,168; Aug. 15.

Lowrey, George, et al. (See Pippin, John W., assignor.)

Lowstuter, Harry B., Monessen, Pa. Treating metals. 1,923,058; Aug. 15.

Lucas, John, assignor to The McKinney Tool & Mfg. Co., Cleveland, Ohio. Forming mill. 1,922,380; Aug. 15.

Luce, Richard V. (See Oestnaes, V. L., and Luce.)

Lucia, Louis V., Rome, N. Y., assignor to Revere Copper and Brass Incorporated. Electric heating unit. 1,922,546; Aug. 15.

Lucy, Thomas A., Canton, Ohio, assignor to Ingalls Steel Products Company, Birmingham, Ala. Floor construction. 1,922,053; Aug. 15.

Lukens, Clarence D., St. Louis, Mo. Hospital bed. 1,922,104; Aug. 15.

Luttheg, Max B., St. Louis, Mo. Accordion. 1,922,381; Aug. 15.

Lutz, Friedrich, assignor to Union Special Maschinenfabrik, G. m. b. H., Stuttgart, Germany. Overedge stitch forming mechanism. 1,922,966; Aug. 15.

Lyle, Frederick W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Frequency-changing circuit. 1,922,250; Aug. 15.

MacColl, Kenneth D., Providence, assignor to J. & P. Coats (Rhode Island) Incorporated, Pawtucket, R. I. Textile packaging. 1,922,969; Aug. 15.

Maccomber, Lewis H., Kalamazoo, Mich. Apparatus for treating paraffin. 1,922,382; Aug. 15.

MacCurdy, John T. (See Mapson, L. W., MacCurdy, and Nolan.)

Macdonald, Charles H., San Francisco, Calif., assignor to The Colorado Fuel and Iron Company, Denver, Colo. Highway guard. 1,922,445; Aug. 15.

MacLean-Fogg Lock Nut Company. (See MacLean, John A., assignor.)

MacLean, John A., assignor to MacLean-Fogg Lock Nut Company, Chicago, Ill. Floor clip and making same. 1,922,814; Aug. 15.

Madden, William J., Lansdowne, Pa. Automatic filling device for oil reservoirs or the like. 1,922,383; Aug. 15.

Madill, Stanley M. (See Strandlund, C. G., and Madill.)

Madsen, Peter N., Ardmore, Pa. Pocket for bathing and sporting garments. 1,922,855; Aug. 15.

Magee, Chauncey L. C., B. S. and R. S. Pfeiffer, assignors to Friction Devices Company, Chicago, Ill. Friction gripping device. 1,922,054; Aug. 15.

Magney, Gottlieb R., Minneapolis, Minn. Humidifying unit with tube. 1,922,704; Aug. 15.

Mahindra, Jagdish C., Calcutta, India. Lock. 1,922,897; Aug. 15.

Malpass, Donald, assignor to The Brown Instrument Company, Philadelphia, Pa. Control system. 1,922,251; Aug. 15.

Manaster, Ben B., Chicago, Ill. Collar clasp. Des. 90,493; Aug. 15.

Mandabach, Paul J., Chicago, Ill. Tooth powder dispenser. 1,922,967; Aug. 15.

Mangold, Rudolf, Longmeadow, Mass., assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Variable coupling. 1,922,596; Aug. 15.

Mansfield, Ralph G., La Salle, N. Y., assignor to Union Carbide Company. Electric furnace. 1,922,312; Aug. 15.

Mapson, Leslie W., and J. T. MacCurdy, Cambridge, and H. O. Nolan, assignors to Cambio Products Limited, London, England. Extracting oil from animal tissue and the lipoid substances by papain digestion. 1,922,484; Aug. 15.

Marasso, Fred, assignor to Union Machinery Company, Joliet, Ill. Loading apparatus for proofers. 1,922,856; Aug. 15.

Marcus, Charles, New York, assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,922,037; Aug. 15.

Marion Steam Shovel Company, The. (See Divney, J. J., and Jacoby, assignors.)

Marsh, Harry V., Chicago, Ill. Collapsible easel. 1,922,626; Aug. 15.

Martin, Bethine A., New York, N. Y. Towel. 1,922,169; Aug. 15.

Martin, Joseph L., Union City, N. J. Hose coupling. 1,922,968; Aug. 15.

Martin, Verner L., Mount Hope, assignor of one-half to E. J. McCool, MacDonald, W. Va. Combination rail bond and connecting plate. 1,922,105; Aug. 15.

Martini, Rudolph, jr., New York, N. Y. Automatic safety check device. 1,922,252; Aug. 15.

Marx, Karl F., Dearborn, Mich. Hydroelectric power generator. 1,922,055; Aug. 15.

Maschinenfabrik Augsburg-Nürnberg A.-G. (See Pielstick, Gustav, assignor.)

Mason, John L., assignor to Hardinge Company, Incorporated, York, Pa. Digester. 1,922,547; Aug. 15.

Mason, William H., assignor to Masonite Corporation, Laurel, Miss. Process and apparatus for disintegration of material. 1,922,313; Aug. 15.

Masonite Corporation. (See Mason, William H., assignor.)

Master Metal Products, Inc. (See Geibel, John F., assignor.)

Masters, Carl L., Orchard Park, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. 2-naphthalenemonosulphonic acid. 1,922,813; Aug. 15.

Matchey, Joseph, Whitehall, Wis. Tire spreader. 1,922,740; Aug. 15.

Mathes, Robert C., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Two-way radio communication system. 1,922,627; Aug. 15.

Mathewson, Wilfred B., South Weymouth, assignor to United Mattress Machinery Company, Boston, Mass. Mattress tufting machine. 1,922,211; Aug. 15.

Mathewson, Wilfred B., North Weymouth, assignor to United Mattress Machinery Company, Boston, Mass. Tufting mattresses. 1,922,212; Aug. 15.

Mattin, Harry E., assignor to Joseph H. Meyer, Brothers, Brooklyn, N. Y. Surface ornamenting composition and preparing and applying the same. 1,922,548; Aug. 15.

Maul, Peter J., Detroit, Mich., and M. Hoffman, Chicago, Ill. Molded block. 1,922,774; Aug. 15.

Maull, James L., Orlando, Fla. Fruit juice extractor. 1,922,773; Aug. 15.

Mayo, Dana H. N., Bethlehem, assignor to Fuller Lehigh Company, Fullerton, Pa. Duplex boiler and furnace wall having water walls. 1,922,665; Aug. 15.

McAllister, Raymond C., Painted Post, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pressure actuated governor trip. 1,922,705; Aug. 15.

McCabe, Ira E. (See Hunciker, Karl, assignor.)

McCabe, William F., New York, N. Y., assignor to Bigelow Sanford Carpet Co., Inc. Rug. Des. 90,494; Aug. 15.

McChesney, Vernon A., Buffalo, and F. A. Milnes, Kenmore, N. Y., assignors to Aluminum Company of America, Pittsburgh, Pa. Lounging chair. Des. 90,495; Aug. 15.

McClenny, Robert W., Lewiston, N. C., and G. L. Carpenter, Benton Harbor, assignors to St. Joseph Iron Works, St. Joseph, Mich. Barrel making machine. 1,922,884; Aug. 15.

McCool, Edward J. (See Martin, Verner L., assignor.)

McCormick, John H., and F. M. Bender, assignors to Vendi Cater, Inc., Williamsport, Pa. Vending machine. 1,922,253; Aug. 15.

McCosh, Marshall K., Reisterstown, Md. Vehicle jack. 1,922,549; Aug. 15.

McCosh, Marshall K., Reisterstown, Md. Vehicle jack. 1,922,550; Aug. 15.

McCosh, Marshall K., Reisterstown, Md. Vehicle jack. 1,922,551; Aug. 15.

McCosh, Marshall K., Reisterstown, Md. Vehicle jack. 1,922,552; Aug. 15.

McCosh, Marshall K., Reisterstown, Md. Lifting device. 1,922,553; Aug. 15.

McCosh, Marshall K., Reisterstown, Md. Lifting device. 1,922,554; Aug. 15.

McCosh, Marshall K., Reisterstown, Md. Lifting device and supporting device. 1,922,555; Aug. 15.

McCrary, John A., Seminary Hill, Va. Deflector 1,922,814; Aug. 15.

McCulloch, Leon, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermionic tube electrode. 1,922,254; Aug. 15.

McCullough, Paul J., assignor to Scullin Steel Co., St. Louis, Mo. Clamping device. 1,922,446; Aug. 15.

McEvoy, J. H., & Company. (See Howard, James H., assignor.)

McGarry, Frank, Philadelphia, Pa. Drapery. 1,922,170; Aug. 15.

McIntyre, Patrick J., Detroit, Mich. Unit heater. 1,922,815; Aug. 15.

McKay Company, The. (See McKay, J. C., and King, assignors.)

McKay, James C., and B. J. King, assignors to The McKay Company, Pittsburgh, Pa. Tire chain. 1,922,106; Aug. 15.

McKee, Minerva E., executrix. (See McKee, Ray.)

McKee, Ray, deceased, Hastings, Nebr., M. E. McKee, Hastings, Nebr., executrix. Ice cream shipping bag. 1,922,485; Aug. 15.

McKenny, Charles A., assignor to The Joseph E. Barrett Company, Detroit, Mich. Self-loading and unloading trolley conveyer. 1,922,970; Aug. 15.

McKesson, Elmer I., assignor to The Vocophone Company, Toledo, Ohio. Artificial larynx. 1,922,385; Aug. 15.

McKinney, Robert M., Baltimore, Md., assignor, by mesne assignments, to Krebs Pigment and Color Corporation, Newark, N. J. Preparation of stabilised titanous salt solutions. 1,922,816; Aug. 15.

McKinney Tool & Mfg. Co., The. (See Lucas, John, assignor.)

McMahon, Charles, Philadelphia, Pa. Container. 1,922,171; Aug. 15.

McMullen, Carlton L., Toronto, Ontario, Canada, assignor to Patent Enterprises Limited. Meter recording mechanism. 1,922,056; Aug. 15.

McMurray, Jason H. (See Shadburn, J. L., and McMurray.)

Meachem, Harry, Teaneck, N. J., assignor to Todd Dry Dock, Engineering & Repair Corporation, Brooklyn, N. Y. Combined liquid fuel and gas burner. 1,922,857; Aug. 15.

Mechanics' Tool & Wrench Company. (See Peck, Louis E., assignor.)

Mellink, Charles F., Toledo, Ohio. Cabinet. 1,922,487; Aug. 15.

Mellink, Charles F., and K. C. Weatherby, assignors to The Mellink Steel Safe Company, Toledo, Ohio. Strong box. 1,922,486; Aug. 15.

Menasha Products Company, The. (See Smith, Marshall H., assignor.)

Mengering, Franz, Magdeburg, Germany. Process and apparatus for preparing respiration baths. 1,922,488; Aug. 15.

Menton, Stanley, assignor to Limousine Body Company, Kalamazoo, Mich. Window construction. 1,922,057; Aug. 15.

Mercedes Buromaschinen-Werke Aktiengesellschaft. (See Mes, Gustav, assignor.)

Mercier, Pierre E., Neuilly-sur-Seine, France, assignor to Compagnie Industrielle Franco-Africaine, Alger Parc, Gatiff, Algeria. Separation and concentration of the constituents of heterogeneous emulsions, or suspensions. 1,922,489; Aug. 15.

Merrill Company, The. (See Ericson, Erland W., assignor.)

Metal Office Furniture Company. (See Bullock, Earl, assignor.)

Metropolitan Engineering Company. (See Murray, Thomas E., assignor.)

Meyer, Egon. (See Schmidt, O., and Meyer.)

Meyer, Joseph H., Brothers. (See Mattin, Harry E., assignor.)

Mes, Gustav, Dahlem, near Berlin, assignor to Mercedes Buromaschinen-Werke Aktiengeselischaft, Zella-Mehlis, Thuringin, Germany. Multiplication device. 1,922,971; Aug. 15.

Middleton, Claude R., Detroit, Mich. Filed envelope. 1,922,213; Aug. 15.

Mid-States Gummed Paper Co. (See Humphner, Ferdinand W., assignor.)

Miller, Arthur E. (See Johnson, Charles H., assignor.)

Miller, Charles, Esq. (See Lapidus, Morris, assignor.)

Miller, Charles, New York, N. Y. Shoe. Des. 90,496; Aug. 15.

Miller, Charles, New York, N. Y. Shoe. Des. 90,497; Aug. 15.

Miller, Charles, New York, N. Y. Shoe. Des. 90,498; Aug. 15.

Miller, Charles, New York, N. Y. Shoe. Des. 90,499; Aug. 15.

Miller, Charles, New York, N. Y. Shoe. Des. 90,500; Aug. 15.

Miller, Charles, New York, N. Y. Shoe. Des. 90,501; Aug. 15.

Miller, Charles, New York, N. Y. Shoe. Des. 90,502; Aug. 15.

Miller, Charles, New York, N. Y. Shoe. Des. 90,503; Aug. 15.

Miller, Charles, New York, N. Y. Shoe. Des. 90,504; Aug. 15.

Miller, Charles, Long Island City, and M. Lieberman, Bronx, N. Y. Ornamental heel. 1,922,058; Aug. 15.

Miller, Donald W. (See Parks, P. B., and Miller.)

Miller, Ernest B., and G. C. Connolly, assignors to The Davison Chemical Company, Baltimore, Md. Separation of metals from ores. 1,922,490; Aug. 15.

Miller, Frank S., and J. Farrington, Steubenville, Ohio. Method and apparatus for handling materials. 1,923,009; Aug. 15.

Miller, James T., Utica, N. Y. Cleaning and polishing outfit. 1,922,255; Aug. 15.

Miller, John M., assignor to Bradley Miller & Company, Bay City, Mich. Window frame. 1,922,741; Aug. 15.

Miller, Louis A., Kansas City, Mo. Handling excavated material. 1,922,972; Aug. 15.

Miller, Ralph M., W. J. Schenler and D. A. Stout, Pueblo, assignor to The Colorado Fuel and Iron Company, Denver, Colo. Transfer. 1,922,447; Aug. 15.

Miller, William B. (See Ellis, G. H., and Miller.)

Millet, Charles W., Evansville, Ind. Caster wheel. 1,922,556; Aug. 15.

Mills Alloys, Inc. (See Russell, C. A., and Walker, assignors.)

Milnes, Fred A. (See McChesney, V. A., and Milnes.)

Miner, Carl S., Glencoe, assignor to W. J. Mohr, Chicago, Ill. Production of expanded vermiculite. 1,922,448; Aug. 15.

Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)

Miner, W. H., Inc. (See Lounsbury, Harvey J., assignor.)

Minneapolis-Honeywell Regulator Company. (See Gauger, F. A., Johnson, and Neuser, assignors.)

Minor, Burt S., San Pedro, Calif. Locking device for swiveling casing hooks. 1,922,386; Aug. 15.

Minor, Joseph H., Hermosa Beach, Calif. Shoe polishing and brushing device. 1,922,256; Aug. 15.

Mischanski, Stephen A., Wallington, N. J. Grater. 1,922,973; Aug. 15.

Mitchell Camera Corporation. (See Mitchell, George A., assignor.)

Mitchell, Courtney N., Cleveland, Ohio. Hydraulic shock absorber. 1,923,038; Aug. 15.

Mitchell, George A., Palms, assignor to Mitchell Camera Corporation, West Hollywood, Calif. Cinematographic apparatus. 1,922,742; Aug. 15.

Mittasch, Alvin, Mannheim, G. Stern, Neckargemunt, and E. Galle, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Conversion of hydrocarbons of high boiling point into those of low boiling point. 1,922,491; Aug. 15.

Mockelmann, Frank, Millard, Nebr. Signal for brooders 1,922,898; Aug. 15.

Modine Manufacturing Company. (See Bossart, Otto A., assignor.)

Mohr, William J. (See Miner, Carl S., assignor.)

Mohun, John L., Omaha, Nebr. Journal box lid. 1,922,597; Aug. 15.

Monroe Auto Equipment Company. (See Nickelsen, John M., assignor.)

Moore, Charles G., and E. H. Drake, Lakewood, assignors to The Glidden Company, Cleveland, Ohio. Synthetic resin and process of making. 1,922,743; Aug. 15.

Moore, Joseph G., et al. (See Krause, A. M., and Rounds, assignors.)
Moos, Wilhelm, Stassfurt, assignor to Kali-Chemie Aktiengesellschaft, Berlin, Germany. Filter candle. 1,922,315; Aug. 15.
Moraine Products Company. (See Short, Charles R., assignor.)
Morehouse, Cyrus E., Clifton Heights, assignor to National Publishing Company, Philadelphia, Pa. Loose leaf binder. 1,922,691; Aug. 15.
Morgan, John D., South Orange, N. J., assignor to Doherty Research Company, New York, N. Y. Zirconium refractories. 1,923,003; Aug. 15.
Morin, Louis H., New York, N. Y., assignor to Doehler Die-Casting Co. Die-casting. 1,922,598; Aug. 15.
Morra, Angelo. (See Locollo, L., and Morra.)
Morse, Albert W., Forest Hills, N. Y. Gas burner. 1,922,628; Aug. 15.
Morse, Lynn H., Natick, and T. F. Smith, Quincy, assignors to E. L. Chase, as trustee, Dorchester, Mass. Portable lock. 1,923,025; Aug. 15.
Morton, William K., Zanesville, Ohio. Grinding machine. 1,922,817; Aug. 15.
Moulding, Thomas G., and J. T. Beatty, Chicago, assignors, by mesne assignments, to R. J. Beatty, Highland Park, Ill. Air cleaner. 1,922,316; Aug. 15.
Moulton, Rollin H., Berwyn, Ill. Shock absorber. 1,923,011; Aug. 15.
Mudge, Charles A., Elizabeth, assignor to Electro Dynamic Company, Bayonne, N. J. Commutator. 1,922,317; Aug. 15.
Mulder, Jentje, Detroit Mich. Air cooled brake. 1,922,318; Aug. 15.
Mulder, Johannes G. W., Windhoven, Netherlands, assignor to Radio Corporation of America. Insulation in electric discharge tubes. 1,922,674; Aug. 15.
Müller, John H., Secane, assignor to International Resistance Company, Philadelphia, Pa. Silver plating compound and method of silver plating. 1,922,387; Aug. 15.
Münch, Eduard, F. Nicolai, R. Fick and W. Reppe, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing hydrocyanic acid. 1,922,492; Aug. 15.
Munk, Paul. (See Wallach, Frederick, assignor.)
Munkert, Emil, Esslingen-on-the-Neckar, Wurtemberg, assignor to F. Hopmeier, Stuttgart, Wurtenberg, Germany. Sliding window. 1,922,775; Aug. 15.
Munsterer, Georg. (See Ortner, O., Münsterer, Gebhardt, and Keller.)
Murphy, Everett E., Newburyport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole molding machine. 1,922,137; Aug. 15.
Murray, Ernest E. (See Myers, J. W., and Murray.)
Murray, Howard J. New York, N. Y., assignor to R. M. Company, Inc., East Pittsburgh, Pa. Steering wheel assembly. 1,922,493; Aug. 15.
Murray, John F., et al., administrators. (See Murray, Thomas E., assignor.)
Murray, Joseph B., et al., administrators. (See Murray, Thomas E.)
Murray, Thomas E., deceased, Brooklyn, N. Y., J. B. Murray, T. E. Murray, jr., and J. F. Murray, administrators, assignors to Metropolitan Engineering Company. Boiler construction. 1,922,599; Aug. 15.
Murray, Thomas E., jr., et al., administrators. (See Murray, Thomas E.)
Musgrove, George J., Washington, D. C. Homogenizer. 1,922,974; Aug. 15.
Muskegon Bennett Corporation. (See Taylor, Lee O., assignor.)
Muther Manufacturing Company. (See Muther, Walter P., assignor.)
Muther, Walter P., Wellesley, assignor to Muther Manufacturing Company, Boston, Mass. Measuring instrument. 1,922,107; Aug. 15.
Myers, Joseph W., and E. E. Murray, Jackson, Mich. Buffing wheel. 1,922,108; Aug. 15.
N. V. Philips, Gloeilampenfabrieken. (See De Jong, Frans H., assignor.)
National Aniline & Chemical Company, Inc. (See Masters, Carl L., assignor.)
National Carbon Company. (See Gillingham, Charles A., assignor.)
National Carbon Company. (See Lapidos, Robert H., assignor.)
National Cash Register Company, The. (See Brand, Samuel, assignor.)
National Pigments and Chemical Company. (See Fisher, E. E., and Baernstein, assignors.)
National Publishing Company. (See Morehouse, Cyrus E., assignor.)
National Smelting Company, The. (See Frost, John G. G., assignor.)
Nederlandsche Technische Handel Maatschappij "Giro". (See Otto, Wolfgang, assignor.)
Neely Nut & Bolt Company. (See Linderman, Andrew L., assignor.)
Nelson, Alfred W., Pelham Manor, N. Y. Casement window. 1,922,494; Aug. 15.
Nelson, Andrew W., assignor to Columbian Enameling & Stamping Co., Terre Haute, Ind. Wall tile attachment. 1,922,214; Aug. 15.
Nelson, L. R., Mfg. Co. Inc. (See Armstrong, Charles C., assignor.)
Neptune, Herman P., San Diego, Calif. Wire stretcher. 1,922,706; Aug. 15.
Neuman, Jacob J., Jamaica, N. Y. Mechanical discharger for centrifugal extractors. 1,922,629; Aug. 15.
Neuser, Arthur. (See Gauger, F. A., Johnson, and Neuser.)
Neville Company, The. (See Anderson, George K., assignor.)
Newberg, John E., Chicago, Ill. Bookholder. 1,922,215; Aug. 15.
Newcomb, Wallace K., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Oiling device. 1,922,707; Aug. 15.
New Departure Manufacturing Company. The. (See Heffernan, Frank A., assignor.)
Newill, Edward B., assignor to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,922,899; Aug. 15.
New Jersey Zinc Company, The. (See Bunce, E. H., and Ashman, assignors.)
Nichols, George E., Abbeville, Ala. Hauling device. 1,922,776; Aug. 15.
Nicholson, Robert H., Meadville, Pa., assignor to Hookless Fastener Company. Slide fastener. 1,922,257; Aug. 15.
Nicholson, William J. B. (See Glover, B. R., and Nicholson.)
Nickelsen, John M., Ann Arbor, assignor to Monroe Auto Equipment Company, Monroe, Mich. Shock absorber. 1,922,600; Aug. 15.
Nicolai, Fritz, et al. (See Munch, E., Nicolai, Fick, and Reppe.)
Nicoll, B., & Company. (See Howard, William S., assignor.)
Nightingall, Victor C. J., Heidelberg, near Melbourne, Victoria, Australia. Recovery of precious metals such as gold, platinum, and the like from ore bodies. 1,922,975; Aug. 15.
Nilsen, Harold C., Chicago, Ill. Legging protector 1,922,172; Aug. 15.
Nocero, James V., Jamestown, N. Y. Burglarproof depository for valuables. 1,922,557; Aug. 15.
Nolan, Edmund, Detroit, Mich. Spark plug terminal. 1,922,601; Aug. 15.
Nolan, Harold O. (See Mapson, L. W., MacCurdy, and Nolan.)
Nordberg Manufacturing Co. (See Butler, Robert S., assignor.)
Nordstrom, Elof, East Orange, assignor to Hoffman Beverage Company, Newark, N. J. Fruit cutting and juice extracting machine. 1,922,818; Aug. 15.
Norman, Nathaniel C., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Volume control circuits. 1,922,602; Aug. 15.
Norris, John I., East Grand Rapids, Mich. Bed rail fastener. 1,922,388; Aug. 15.
Northwestern Corporation. (See Bolen, Emerson A., assignor.)
Norton, Clifford, South Orange, N. J., assignor, by mesne assignments, to Otis Elevator Company. Electric door operator. 1,922,708; Aug. 15.
Norviel, Harry E., assignor to Delco-Remy Corporation, Anderson, Ind. Lock controller. 1,922,449; Aug. 15.
Nusser, Otto, Newark, N. J. Sectional radiator cover. 1,922,603; Aug. 15.
Nye, Alvin F., Rochester, assignor, by mesne assignments, of one-half to H. B. Lawson, East Rochester, N. Y. Curtain fixture. 1,922,389; Aug. 15.
Nyquist, August R., Roseau, Minn. Flux. 1,922,692; Aug. 15.
Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. System for transposition of conductor sets in cables. 1,922,138; Aug. 15.
Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Telegraph system for submarine cables. 1,922,139; Aug. 15.
Oberhuber, William F., Drexel Hill, assignor to Franklin Development Company, Philadelphia, Pa. Cutter for condenser tubes. 1,922,630; Aug. 15.
Obidine, Wladimire J., Los Angeles, Calif. Speedometer stop mechanism. 1,922,319; Aug. 15.
O'Brien, George R., Superior, Wis. Gauge rod wiper. 1,922,450; Aug. 15.
O'Brien, James F., Seattle, Wash. Manufacturing nitrocompounds. 1,922,709; Aug. 15.
O'Brien, William J., Cleveland, Ohio, and J. E. Drapeau, jr., New York, N. Y., assignors to The Glidden Company, Cleveland, Ohio. Recovering zinc from brass scrap and other materials containing zinc. 1,922,390; Aug. 15.
Odell, Benjamin F. J. Chicago, Ill. Producing a prepared fuel. 1,922,391; Aug. 15.
Oestnaes, Victor L., Westfield, and R. W. Luce, Mountainside, assignors to American Gasaccumulator Company, Elizabeth, N. J. Supporting means for reflectors and like devices. 1,922,819; Aug. 15.
Ohio Injector Company, The. (See Allen, Charles B., assignor.)
Ohl, Russell S., Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Radio receiving system. 1,922,059; Aug. 15.
Oilgear Company, The. (See Wiedmann, Ernst, assignor.)
Oil Well Supply Company. (See Shimer, John M., assignor.)

Olandt, Robert H., Long Island City, N. Y. Fuse plug. 1,922,820; Aug. 15.
Olin, Franklin W. and J. M., and R. G. Clyne, Alton, assignors to Western Cartridge Company, East Alton, Ill. Method and apparatus for determining the interior ballistic characteristics of fixed ammunition. 1,922,820; Aug. 15.
Olin, John M. (See Olin, Franklin W. and J. M., and Clyne.)
Ortner, Otto, G. Münsterer, W. Gebhardt, Nuremberg, and K. Keller, Berlin-Charlottenburg, assignors to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Remote controlling plant. 1,922,711; Aug. 15.
Osborn Manufacturing Company, The. (See Oyster, Earl F., assignor.)
Osgood, Austin H., assignor of one-tenth to L. Selling, Portland, Oreg. Thermostat. 1,922,451; Aug. 15.
Ossing, Fred, Cleveland, Ohio. Roller and key for printing presses. 1,922,495; Aug. 15.
Otis Elevator Company. (See Norton, Clifford, assignor.)
Otto, Wolfgang, Kitseberg, near Kiel, Germany, assignor to the Firm Nederlandsche Technische Handel Maatschappij "Giro". The Hague, Netherlands. Course indicator for reproducing the indication of a gyrocompass. 1,922,976; Aug. 15.
Overhead Door Corporation. (See Johnson, C. G., and Blodgett, assignors.)
Overmeyer, John, assignor to William Wilhelm Co., Inc., New York, N. Y. Textile fabric or similar article. Des. 90,505; Aug. 15.
Owen, Thomas L. (See Green, John C., assignor.)
Owens, Edward A., assignor to Selectasine System, Inc., San Francisco, Calif. Stencil printing machine. 1,922,710; Aug. 15.
Owens, Freeman H., New York, N. Y. Reproducing sound from a photographic film record. 1,922,631; Aug. 15.
Owens, Samuel H., Altoona, Pa. Movable abutment for container vehicles. 1,922,632; Aug. 15.
Oyster, Earl F., Cleveland Heights, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Rollover machine. 1,922,744; Aug. 15.
Pacific Marine Supply Company. (See Himberger, Earl W., assignor.)
Package Box Company, The. (See Burke, Hubert H., assignor.)
Packer, Lewis C., Longmeadow, Mass., assignor to Westinghouse Electric & Manufacturing Company. Portable electric tool. 1,922,258; Aug. 15.
Page, Albert E., Brooklyn, assignor to Scott & Williams, Incorporated, New York, N. Y. Circular knitting machine. 1,922,977; Aug. 15.
Page, Ralph H., Scarsdale, N. Y. Garment hanger. 1,922,858; Aug. 15.
Palmer, Stanton, Chicago, Ill., assignor, by mesne assignments, to Snap-on Tools, Inc., Kenosha, Wis. Valve lifter. 1,922,892; Aug. 15.
Paradise, Raymond P., Indianapolis, Ind. Nozzle. 1,922,259; Aug. 15.
Pardon, Ernest J. (See Hoerle, W. F., and Pardon.)
Parker, Clara B., executrix. (See Parker, George D.)
Parker, George D., deceased, Riverside, Calif., by Clara B. Parker, executrix. Raising and lowering device. 1,923,012; Aug. 15.
Parker, Richard B., Englewood, N. J., assignor to S. E. Darby, trustee, New York, N. Y. Extracting the volatile constituents from carbonaceous materials. 1,922,321; Aug. 15.
Parks, Paul B., Oak Park, and D. W. Miller, Elmhurst, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Automatic reclosing circuit breaker and indicator. 1,922,452; Aug. 15.
Parr Instrument Company. (See Staley, Wayne D., assignor.)
Parsons, Fred A., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis Wis. Transmission and control mechanism. 1,922,633; Aug. 15.
Patent Enterprise Limited. (See McMullen, Carlton L., assignor.)
Patentaktiebolaget Grondal-Ramen. (See Haglund, Gustaf, assignor.)
Patterson, John E. (See Lane, G., and Patterson.)
Pearce, Arthur C. (See Robertson, John W., assignor.)
Peasc, John W., Rochester, N. Y. Feeding mechanism for fruit paring machines. 1,922,745; Aug. 15.
Peck, Louis E., assignor to Mechanics' Tool & Wrench Company, Greenfield, Mass. Pipe wrench. 1,922,496; Aug. 15.
Pedersen, Olaf S., East Orange, N. J. Heat exchange device. 1,922,173; Aug. 15.
Pelouch, James J., Newburg Heights, and P. I. Schultz, Cleveland, assignors to The United States Air Compressor Company, Cleveland, Ohio. Lubricant dispensing device. 1,922,109; Aug. 15.
Penniman, William B. D., Baltimore, Md. Cracking hydrocarbon oils. 1,922,322; Aug. 15.
Pennsylvania Rubber Company. (See Humphrey, Walter E., assignor.)
Persons, Lawrence M., assignor to The Emerson Electric Mfg. Co., St. Louis, Mo. Laminated field assembly for electric motors. 1,922,216; Aug. 15.
Peterson, Hans, Readstown, Wis. Animal trap. 1,923,089; Aug. 15.
Peterson, John E., and E. A. Van Beke, North Bergen, assignors to Eisler Electric Corporation, Newark, N. J. Method and machine for making wire-drawing dies, etc. 1,922,497; Aug. 15.
Peterson, John E., and E. A. Van Beke, North Bergen, assignors to Eisler Electric Corporation, Newark, N. J. Method and machine for making wire-drawing dies. 1,922,498; Aug. 15.
Pfau, Arnold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic installation. 1,922,323; Aug. 15.
Pfeffer, Ernst, Frankfort-on-the-Main-Schwanheim, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Producing vat dyestuff print and closely adjacent thereto aniline black prints on the same fabric. 1,922,978; Aug. 15.
Pfeiffer, Benjamin S. (See Magee, C. L. C., Pfeiffer, Benjamin and R. S.)
Pfeiffer, Frank E. (See Stern, M. C., and Pfeiffer.)
Pfeiffer, Rudolf S. (See Magee, C. L. C., Pfeiffer, Benjamin and R. S.)
Pharo, Gordon C., assignor to "Acmeline" Manufacturing Company, Traverse City, Mich. Sprayer. 1,923,059; Aug. 15.
Phillips, Leonard R., New York, N. Y. Crayon and making the same. 1,922,558; Aug. 15.
Phillips, William B. (See Elliott, Fred S., assignor.)
Pidgeon, John V., assignor to Pillsbury Flour Mills Company, Minneapolis, Minn. Sifting and material directing device for containers. 1,922,174; Aug. 15.
Pielstick, Gustav, assignor to Maschinenfabrik Augsburg-Nürnberg A. G., Augsburg, Germany. Piston for double acting internal combustion engines. 1,922,808; Aug. 15.
Piepenbring, Gustave A., Stratford, and W. Beutel, assignors to The American Fabrics Company, Bridgeport, Conn. Reversible garter. 1,922,604; Aug. 15.
Pier, Mathias. (See Krauch, C., Pier, and Simon.)
Pier, Mathias, Heidelberg, and W. Simon, Ludwighafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J. Destructive hydrogenation of carbonaceous materials. 1,922,499; Aug. 15.
Pierce, Clarence G., Houston, Tex. Fuse holder. 1,922,500; Aug. 15.
Pierce, Earl R., Flint, assignor to General Motors Research Corporation, Detroit, Mich. Control for infinitely variable transmissions. 1,922,634; Aug. 15.
Piggly Wiggly Corporation. (See Thompson, Harold D., assignor.)
Pigott, Reginald J. S., Pittsburgh, Pa. Safety device. 1,922,777; Aug. 15.
Pillsbury Flour Mills Company. (See Pidgeon, John V., assignor.)
Pippin, John W., Corpus Christi, assignor of one-half to H. R. Giles, Nueces County, and one-half to W. F. Hall and G. Lowrey, Harris County, Tex. Well pump plunger. 1,923,040; Aug. 15.
Piston Ring Company, The. (See Johnson, Charles E., assignor.)
Pittsburgh Plate Glass Company. (See Dickey, Cromwell B., assignor.)
Pittsburgh Plate Glass Company. (See Fox, John H., assignor.)
Pittsburgh Plate Glass Company. (See Koupal, Walter G., assignor.)
Pittsburgh Plate Glass Company. (See Redshaw, Joseph H., assignor.)
Plante, Levi N., assignor to Progressive Tool & Die Company, Incorporated, Worcester, Mass. Holder for tags, etc. 1,922,900; Aug. 15.
Plauson, Hermann, assignor to Radiochemisches Forschungs-Institute, G. m. b. H., Darmstadt, Germany. Apparatus for the preparation of semicolloids and uniform colloids. 1,923,013; Aug. 15.
Plibrico Jointless Firebrick Company. (See Anderson, John E., assignor.)
Pluschweberei Grefrath Aktiengesellschaft. (See Heidel, Kurt, assignor.)
Pneumatic Scale Corporation. (See Everett, Arthur C., assignor.)
Poppe, Erling, Shalford, England. Brake. 1,922,778; Aug. 15.
Popper, Max, Brooklyn, N. Y. Pinking attachment for sewing machines. 1,922,453; Aug. 15.
Popular Mechanics Co. (See Wilson, Edwin L., assignor.)
Porter, Sidney C., Newell, W. Va. Control and locking mechanism. 1,922,454; Aug. 15.
Portnoy, Joseph, Philadelphia, Pa. Dyeing machine. 1,922,859; Aug. 15.
Post & McCord. (See Post, Robert C., assignor.)
Post, Robert C., Englewood, N. J., assignor to Post & McCord. Hoisting machine. 1,922,635; Aug. 15.
Poster Products, Inc. (See Burke, Lawrence J., assignor.)
Potter, William W. (See Cavanagh, John F., assignor.)
Powell, Edwin, L., New Orleans, La. Refrigerator. 1,922,456; Aug. 15.
Powell, John F., St. Louis County, Mo., assignor to Vonnegut Hardware Company, Indianapolis, Ind. Compensating astragal. 1,922,860; Aug. 15.
Powerplus (1927) Limited. (See Eyston, George E. T., assignor.)
Prendergast, Harold Y., Brooklyn, N. Y. Broadcast receiver apparatus. 1,922,861; Aug. 15.
Price, H. C., Inc. (See Price, H. C., and Redding, assignors.)

Price, Harold C., and D. R. Redding, assignors to H. C. Price, Inc., Bartlesville, Okla. Removable chill ring for pipe welding. 1,922,324; Aug. 15.
Prince, David C., Swarthmore, Pa., assignor to General Electric Company. Electrical switching apparatus. 1,922,882; Aug. 15.
Proctor, Robert V., assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio. Tunnel liner. 1,923,006; Aug. 15.
Proctor, Robert V., assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio. Tunnel liner. 1,923,007; Aug. 15.
Proctor, Robert V., assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio. Tunnel liner. 1,923,008; Aug. 15.
Proctor & Schwartz, Incorporated. (See Kerst, E. B., and Hurxthal, assignors.)
Progressive Tool & Die Company. (See Plante, Levi N., assignor.)
Projection Optics Co. (See Fouquet, William F., assignor.)
Prosperity Company, The. (See Ledbetter, James C., assignor.)
Prynne, Charles W. (See Crespinel, W. T., and Prynne.)
Pulitzer, Gustav M., assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,506; Aug. 15.
Pulitzer, Gustav M., assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,507; Aug. 15.
Pulitzer, Gustav M., assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,508; Aug. 15.
Pulvermacher, Karl, assignor of one-half to P. Freund, Budapest, Hungary. Recording acoustic vibrations. 1,922,821; Aug. 15.
Quigley, Charles P., assignor to The American Hardware Corporation, New Britain, Conn. Doorlatch. 1,922,455; Aug. 15.
R. M. Company. (See Murray, Howard J., assignor.)
Radio Corporation of America. (See Aceves, Julius G., assignor.)
Radio Corporation of America. (See Filippo, Hendrik, assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Mulder, Johannes G. W., assignor.)
Radiochemisches Forschungs-Institut, G. m. b. H. (See Plauson, Hermann, assignor.)
Raffold Process Corporation. (See Rafton, Harold R., assignor.)
Rafton, Harold R., Andover, Mass., assignor to Raffold Process Corporation. Manufacture of paper. 1,922,325; Aug. 15.
Rail, Max, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Starting ignition device. 1,922,779; Aug. 15.
Randel, Bo F., San Diego, Calif. Refrigerating method and apparatus. 1,922,712; Aug. 15.
Randel, Bo F., San Diego, Calif. Refrigeration. 1,922,713; Aug. 15.
Randel, Bo F., San Diego, Calif., assignor to Electrolux Servel Corporation, New York, N. Y. Refrigerating means and method. 1,922,217; Aug. 15.
Raney, Estel C., Columbus, Ohio. Electric plug connecter. 1,922,394; Aug. 15.
Rauber, Benjamin T. (See Rauber, Houston A. and B. T.)
Rauber, Houston A. and B. T., Montclair, N. J. Compact. 1,922,326; Aug. 15.
Raven, Albert L., Mount Vernon, N. Y. Motion picture screen. 1,922,636; Aug. 15.
Reale, Frank S. (See Fuschi, Antonio, assignor.)
Rechtschaffen, Louis, Bronx, N. Y. Air mattress or cushion. 1,922,979; Aug. 15.
Redding, Donald R. (See Price, H. C., and Redding.)
Redshaw, Joseph H., Homestead Park, Pa., assignor to Pittsburgh Plate Glass Company. Sheet glass apparatus. 1,922,327; Aug. 15.
Reece, Joseph A., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for producing sheet glass. 1,922,637; Aug. 15.
Reeder, Lydia M., Columbus, Ohio. Toy. 1,922,746; Aug. 15.
Reeson, Frank A. (See Tidmus, A. H., and Reeson.)
Reeves, Milton O., deceased, Columbus, P. B. Reeves, administrator, assignor to Reeves Pulley Company, Columbus, Ind. Distant control for speed varying devices. 1,923,041; Aug. 15.
Reeves, Paul B., administrator. (See Reeves, Milton O.)
Reeves Pulley Company. (See Reeves, Milton O., assignor.)
Reichenbaum, Doré, Milwaukee, Wis. Garment. 1,922,638; Aug. 15.
Reid, Frederick M., assignor to Fruehauf Trailer Company, Detroit, Mich. Tractor semitrailer. 1,922,395; Aug. 15.
Reis, Louis C., Duluth, Minn. Billet surfacing machine. 1,922,980; Aug. 15.
Remington Rand Inc. (See Hutchings, Le Roi E., assignor.)
Rendelman, Joseph, and W. Holstrum, Philadelphia, Pa., assignors to said Rendelman and said Holstrum, trustees. Radiator and filter therefor. 1,922,863; Aug. 15.
Rennacker, Clarence A., Kansas City, Mo. Colander. 1,923,014; Aug. 15.
Reppe, Walter. (See Munch, E., Nicolai, Fick, and Reppe.)
Republic Steel Corporation. (See Coyle, Paul L., assignor.)
Republic Steel Corporation. (See Harris, Albert, assignor.)
Republic Steel Corporation. (See Witherow, W. P., and Coyle, assignors.)
Research Corporation. (See Crowder, Alexander N., assignor.)
Revere Copper and Brass Incorporated. (See Lucia, Louis V., assignor.)
Reynolds Gas Regulator Co. (See Hughes, Ralph C., assignor.)
Rhea, Thomas R., Schenectady, N. Y., assignor to General Electric Company. Compass. 1,922,864; Aug. 15.
Rhodes, Herbert L., Oakland, Calif. Preparing synthetic rutile titanium dioxide. 1,922,328; Aug. 15.
Richardson, Led L., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Rock drill. 1,922,329; Aug. 15.
Ricker, Norman H., assignor to Hughes Tool Company, Houston, Tex. Pneumatic swab plunger. 1,922,396; Aug. 15.
Ricks, Fred, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Channel cementing machine. 1,922,140; Aug. 15.
Riedel, Frans, Long Island City, N. Y. Circuit maker. 1,922,260; Aug. 15.
Rieke, Irvin H., Auburn, Ind., assignor to Rieke Metal Products Corporation. Bung fixture for containers and seal therefor. 1,923,026; Aug. 15.
Rieke Metal Products Corporation. (See Rieke, Irvin H., assignor.)
Ridley, Alfred E., Llanelly, England. Apparatus for the removal and recovery of oils and grease from oil laden water and the like. 1,922,714; Aug. 15.
Riesner, Michael, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation. New York, N. Y. Unloading mechanism for rotary compressors. 1,922,639; Aug. 15.
Rightmyer, Holden W., assignor to The American Swiss Company, Toledo, Ohio. Doorlatch. 1,922,261; Aug. 15.
Riley, Reginald H. J., Spondon, near Derby, England, assignor to Celanese Corporation of America. Manufacture of artificial filaments, threads and the like. 1,922,715; Aug. 15.
Ritter, George, Pinckneyville, Ill. Monument. 1,922,218; Aug. 15.
Robb Frank M., Belleville, Ontario, Canada. Signal horn. 1,922,397; Aug. 15.
Robertson, John W., Cheam, assignor to A. C. Pearce, London, England. Bucket or like receptacle. 1,922,981; Aug. 15.
Robinett, Richard A., Norfolk, Va. Expanding a flattened paper roll. 1,922,716; Aug. 15.
Robinson, Evelyn G. New York, N. Y. Material handling apparatus. 1,922,330; Aug. 15.
Robinson, Harry E. (See Schutz, H. R., and Robinson.)
Robinson, Jay F., Pittsburgh, J. M. Chilcote, Wellsboro, and W. H. Haupt, Tioga, Pa. Cementing apparatus for oil and gas wells. 1,922,780; Aug. 15.
Robinson, Thomas, assignor to Lancaster Asphalt, Inc., New York, N. Y. Building product and making the same. 1,922,501; Aug. 15.
Rock, John P., Duluth, Minn. Shock absorber. 1,922,457; Aug. 15.
Roebrich, Carl, Berlin, assignor to the firm Silfree Aktiengesellschaft, Vaduz, Germany. Manufacture of photographic pictures. 1,922,962; Aug. 15.
Roemer, Ralph R., Cleveland, Ohio. Construction shore. 1,922,747; Aug. 15.
Roemer, Ralph R., Cleveland, Ohio. Construction shore. 1,922,748; Aug. 15.
Rogers, Joseph F., and W. D. Doonan, Butte, Mont. Auxiliary spring for motor cars. 1,922,781; Aug. 15.
Rohde, Otto C., assignor to Champion Spark Plug Company, Toledo, Ohio. Spark plug. 1,922,175; Aug. 15.
Rolph, Thomas W., Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Luminair. 1,922,831; Aug. 15.
Ronaldson, Robert T., Beaumont, Tex., assignor to Upstarter Company. Starter for internal combustion motors. 1,922,865; Aug. 15.
Ronsoni, Angelo. New York, N. Y. Dough product. Des. 90,509; Aug. 15.
Rosenberg, Sandor, and A. Klemin, New York, N. Y. Rotary airfoil. 1,922,866; Aug. 15.
Rosmait, John A., Manistee, Mich. Multiple wall waterproof bag. 1,922,867; Aug. 15.
Rosner, Adolph, Rockton, assignor to Fairbanks, Morse & Co., Chicago, Ill. Air induction means for internal combustion engines. 1,922,640; Aug. 15.
Ross, James H., jr., Montreal, Quebec, Canada. Making chemical pulp. 1,922,262; Aug. 15.
Round Oak Furnace Company. (See Froeland, Frank J., assignor.)
Rounds, Jesse J. (See Krause, A. M., and Rounds.)
Roush, Lee, Beaver, Pa., assignor, by mesne assignments, to The Hobart Manufacturing Company, Troy, Ohio. Cream whipping apparatus. 1,922,749; Aug. 15.
Rucker, Benjamin P., Upper Montclair, N. J. Time switch operating mechanism. 1,922,868; Aug. 15.

Ruhland, Joseph, Plain, Wis. Automatic hay unloader. 1,922,176; Aug. 15
Rumfelt, Isaac G., Hartford, Conn. Machine for notching statistical cards. 1,922,869; Aug. 15.
Ruperti, Andreas. (See Haller, R., and Ruperti.)
Ruppel, Frederick C., assignor to W. B. Jarvis Company, Grand Rapids, Mich. Radiator for motor vehicles. 1,922,901; Aug. 15.
Russell, Charles A., and C. M. Walker, assignors to Mills Alloys Inc., Los Angeles, Calif. Grader blade. 1,922,917; Aug. 15.
Ryde, Carl O., Oak Park, Ill. Cooking and drying eggshells. 1,922,177; Aug. 15.
Sachs, Joseph, West Hartford, Conn. Arc extinguishing device for electric switches. 1,922,060; Aug. 15.
St. Joseph Iron Works. (See McClenny, R. W., and Carpenter, assignors.)
Salcaian, Dionisie I., Canton, Ohio. Shoe jack. 1,922,750; Aug. 15.
Sandstone, Harvey D., Los Angeles, Calif. Advancing motor drilling structure. 1,923,015; Aug. 15.
Sanitary Public Service Corporation. (See Doane, Leroy C., assignor.)
Saranac Patents Holding Company. (See Durand, Arthur F., assignor.)
Sargent's, C. G., Sons Corporation. (See Coleman, Spencer A., assignor.)
Sawford, Harold S., Ozone Park, N. Y. Radiograph marking means and making the same. 1,922,822; Aug. 15.
Sawford, Harold S., Ozone Park, N. Y. Marking radiographs. 1,922,823; Aug. 15.
Schaeffer, Walter, Frankfort-on-the-Main, Germany. Filling an ampule. 1,922,458; Aug. 15.
Schafer, Earl R. (See Heritage, C. C., Schafer, and Carpenter.)
Schallis, Charles A., Ernestville, assignor to Thomas A. Edison Incorporated, West Orange, N. J. Infusion device and the like. 1,922,782; Aug. 15.
Scheibner, Aaron B., Audubon, N. J. Christmas garden hedge. 1,922,398; Aug. 15.
Schenler, William J. (See Miller, R. M., Schenler, and Stout.)
Schick Dry Shaver, Inc. (See Schick, Jacob, assignor.)
Schick, Jacob, Sound Beach, assignor to Schick Dry Shaver, Inc., Stamford, Conn. Electric motor. 1,922,824; Aug. 15.
Schilling, Paul A., assignor to Waldorf Paper Products Company, St. Paul, Minn. Box. 1,922,399; Aug. 15.
Schmidt, John, assignor to Sprague-Sells Corporation, Hoopeston, Ill. Pumpkin steamer. 1,922,783; Aug. 15.
Schmidt, Oscar C., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Smoke stick. 1,922,263; Aug. 15.
Schmidt, Otto, Ludwigshafen-on-the-Rhine, and E. Meyer, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Ethers of polyhydric alcohols and their production. 1,922,459; Aug. 15.
Schmidt, Otto W. (See Carswell, F. L., and Schmidt.)
Schneider, Christian, Chicago, Ill. Sign and display structure. 1,922,142; Aug. 15.
Schollhorn, Wm., Company, The. (See Heise, Arthur R., assignor.)
Schults, Paul I. (See Pelouch, J. J., and Schults.)
Schults, William J., Glassport, Pa., assignor to Firth-Sterling Steel Company. Die structure. 1,922,110; Aug. 15.
Schults, William J., Glassport, Pa., assignor to Firth-Sterling Steel Company. Metal-working implement. 1,922,178; Aug. 15.
Schumann, Walter, Gornitz, near Leisnig, Germany. Cultivator. 1,922,219; Aug. 15.
Schuts, Harold R., and H. E. Robinson, assignors, by mesne assignments, to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Cutting mechanism for sheet material. 1,922,641; Aug. 15.
Schwartz, Roy H., Cleveland, Ohio. Automobile mat. Des. 90,510; Aug. 15.
Schwarzmann, Wolfgang E. (See Beeh, L., and Schwarzmann.)
Scott & Williams, Incorporated. (See Page, Albert E., assignor.)
Scott, Floyd L., Houston, Tex. Retaining means for shafts and the like. 1,922,400; Aug. 15.
Scott, Victor L., Ottumwa, Iowa. Drilling machine. 1,922,401; Aug. 15.
Scragg, George H., assignor to International Motor Company, New York, N. Y. Aisle seat for busses. 1,922,502; Aug. 15.
Scullin Steel Co. (McCullough, Paul J., assignor.)
Sears, Edward J. (See Francis, C. C. and Sears.)
Sears, Roebuck and Co. (See Game, Karl P., assignor.)
Secor, Percy A. (See De Marco, Louis, assignor.)
Sedgwick Machine Works, Incorporated. (See Henricksen, Bjarne, assignor.)
Sedlock, Anton V., Los Angeles, Calif. Bed construction. 1,922,503; Aug. 15.
Segal Lock & Hardware Co. (See Hines, John, assignor.)
Seitz, Wilford, assignor of sixteen and two-thirds per cent to L. P. Spore, sixteen and two-thirds per cent to F. B. Cooney, and sixteen and two-thirds per cent to R. T. Judson, Sandusky, Ohio. Insecticide. 1,923,004; Aug. 15.
Selectasine System, Inc. (See Owens, Edward A., assignor.)
Self-Locking Carton Company. (See Troyk, Felix, assignor.)
Selling, Laurence. (See Osgood, Austin H., assignor.)
Semet-Solvay Company. (See Wingert, William B., assignor.)
Semet-Solvay Engineering Corporation. (See Tymstra, Sybren B., assignor.)
Seng Company, The. (See Fox, Martin, assignor.)
Shadburn, James L., and J. H. McMurray, Buford, Ga. Tractor. 1,922,460; Aug. 15.
Shannon, James L., assignor, by mesne assignments, to Blake Manufacturing Corporation, Springfield, Mass. Electric hand flash light. 1,922,332; Aug. 15.
Sharp, Paul F., assignor to Cornell University, Ithaca, N. Y. Egg preservation. 1,922,143; Aug. 15.
Shaw, Harry E., Grand Rapids, Mich. Display stand. Des. 90,511; Aug. 15.
Shawl, Joseph F., Oakland, Calif. Advertising golf course. 1,922,333; Aug. 15.
Shell Oil Company. (See Alden, Herbert O., assignor.)
Shell Petroleum Corporation. (See Tijmstra, Sijbren, assignor.)
Shelton, Thomas M. (See Holmes, E. R., and Shelton.)
Sheriff, Samuel, and H. J. Hitzfeldt, Wilkinsburg, Pa. Ice cream freezer. 1,922,784; Aug. 15.
Shimer, John M., Braddock, assignor to Oil Well Supply Company, Pittsburgh, Pa. Rodless pump. 1,922,264; Aug. 15.
Short, Charles R., assignor to Moraine Products Company, Dayton, Ohio. Sintering briquetted materials. 1,922,402; Aug. 15.
Shoults, David H., Scotia, N. Y., assignor to General Electric Company. Tension controlling system. 1,922,870; Aug. 15.
Siebs, Claude T. (See Johnson, R., and Siebs.)
Siemens & Halske Aktiengesellschaft. (See Flad, Artur, assignor.)
Siemens Brothers & Company Limited. (See Christian, David A., assignor.)
Siemens Brothers & Company Limited. (See Escott, Alexander J., assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Ortner, O., Münsterer, Gebhardt, and Keller, assignors.)
Sigoda, Victor J., Brooklyn, N. Y. Thread-removing mechanism for hemstitching machines. 1,922,334; Aug. 15.
Silfree Aktiengesellschaft. (See Roehrich, Carl, assignor.)
Simon, Walter. (See Krauch, C., Pier, and Simon.)
Simon, Walter. (See Pier, M., and Simon.)
Simplex Shoe Tree Co. (See Horsting, Bernard F., assignor.)
Singer Manufacturing Company, The. (See Grieb, Alfred, assignor.)
Smede, Lloyd. (See Baker, R. M., and Smede.)
Smith, Arthur D., assignor to Jenkins Petroleum Process Company, Chicago, Ill. Process and apparatus for treating hydrocarbons. 1,923,016; Aug. 15.
Smith, Francis F., Old Orchard Beach, Maine. Merry-go-round. 1,922,988; Aug. 15.
Smith, Frazier, assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Jar. Des. 90,512; Aug. 15.
Smith, Herbert, Clinton, Mass., assignor to E. C. Bowers and C. L. Feldman, receivers for Wickwire Spencer Steel Company, New York, N. Y. Cabinet construction. 1,922,504; Aug. 15.
Smith, Marshall H., assignor to The Menasha Products Company, Menasha, Wis. Dispensing cotton. 1,922,826; Aug. 15.
Smith, Ralph E., assignor to The Gallon Metallic Vault Co., Gallon, Ohio. Dump body construction. 1,922,111; Aug. 15.
Smith, Ramsey, Puerta Castilla, Honduras. Conveyer. 1,922,141; Aug. 15.
Smith, Thomas F. (See Morse, L. H., and Smith.)
Smitt, Hermanus M., Bilthoven, Netherlands. Mechanism for feeding fragile objects to machines. 1,922,717; Aug. 15.
Snap-on Tools, Inc. (See Palmer, Stanton, assignor.)
Snell, Lyle K., Detroit, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Closure. 1,922,113; Aug. 15.
Snyder, Eugene L., Canton, Ohio. Unit heater. 1,922,144; Aug. 15.
Sobocinski, Felix L., assignor of one-half to F. Wojtowicz, Buffalo, N. Y. Aerial eliminator. 1,922,335; Aug. 15.
Societe Anonyme des Ateliers Brillie Freres. (See Battegay, Constant, assignor.)
Société Francaise des Films Herault. (See Dorel, F., assignor, and Bellier.)
Society of Chemical Industry in Basle. (See Haller, R., and Ruperti, assignors.)
Sorensen, Andrew J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Train control system. 1,922,118; Aug. 15.
Soundy, Leonard H., assignor to Uneon Limited, London, England. Electrical supply equipment for discharge tubes. 1,922,984; Aug. 15.
Southwell, Raymond J., New Rochelle, and T. H. Wickwire, jr., assignors to Welded Fabrics Corporation, New York, N. Y. Fabric making. 1,922,270; Aug. 15.

Southwell, Raymond J., and T. H. Wickwire, jr., assignors to Welded Fabrics Corporation, New York, N. Y. Apparatus for formation and welding of crossed wire products. 1,922,271; Aug. 15.
Spear, Jay P., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Container. 1,922,605; Aug. 15.
Spindler, Gustav, San Francisco, Calif. Microscope light. Des. 90,513; Aug. 15.
Spore, Leland P., et al. (See Seitz, Wilford, assignor.)
Sprague, Douglas, deceased, by E. G. Sprague, administratrix, Mount Vernon, N. Y. Heating and ventilating apparatus. 1,922,220; Aug. 15.
Sprague, Etta G., administratrix. (See Sprague, Douglas.)
Sprague-Sells Corporation. (See Schmidt, John, assignor.)
Squibb, E. R., & Sons. (See Christiansen, W. G., and Lott, assignors.)
Squibb, E. R., & Sons. (See Harris, S. E., and Christiansen, assignors.)
Squibb, E. R., & Sons. (See Jones, W. S., and Braker assignors.)
Squires, John, Detroit, Mich. Propeller. 1,922,179; Aug. 15.
Squires, John, Hagerstown, Md. Ash tray. 1,922,180; Aug. 15.
Squires, John, Hagerstown, Md. Airplane. 1,922,825; Aug. 15.
Staley, Wayne D., assignor, by mesne assignments, to Parr Instrument Company, Moline, Ill. Turbidimeter. 1,922,830; Aug. 15.
Standard Brands, Incorporated. (See Gore, H. C., and Frey, assignors.)
Standard Brands Incorporated. (See Jacobsen, Jens P., assignor.)
Standard Brands Incorporated. (See Koepke, Henry G., assignor.)
Standard I-G., Company. (See Krauch, C., Pier & Simon, assignors.)
Standard-I. G. Company. (See Pier, M., and Simon, assignors.)
Standard-Trump Bros. Machine Company. (See Bristow, P. W., and Houseman, assignors.)
Stanfield, Harry V., Greensburg, Pa. Automatic sugar dispenser. 1,922,785; Aug. 15.
Starr, Charles E., Whittier, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake testing mechanism. 1,922,871; Aug. 15.
Starrett, L. S., Company, The. (See Christopherson, Knute, assignor.)
Steel & Tubes, Inc. (See Gibson, James, assignor.)
Steenbeck, Max, Berlin-Westend, and R. G. Berthold, Berlin-Siemensstadt, Germany, assignors to Westinghouse Electric and Manufacturing Company. Resistance material. 1,922,221; Aug. 15.
Stegeman, Henry J. (See Locke, S. D., and Stegeman.)
Steiger, Walther, Bern, Switzerland. Charging pump for multicylinder two-stroke combustion engines or compressors. 1,922,985; Aug. 15.
Steiner Sales Company. (See Birr, R. G., and Grunwald, assignors.)
Steiner Sales Company. (See Flack, Ole J., assignor.)
Steinmayer, Alwyn G., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Pothead. 1,922,336; Aug. 15.
Stephens, Charles A. (See Gerow, James W., assignor.)
Stere, Boyd A., and E. C. Ausnehmer, Youngstown, Ohio. Window. 1,922,505; Aug. 15.
Stern, Georg. (See Mittasch, A., Stern, and Galle.)
Stern, Milton C., and F. E. Pfeiffer, assignors to The Egry Register Company, Dayton, Ohio. Manifolding machine. 1,922,114; Aug. 15.
Stevens, Horace D., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Automatic mill mixer. 1,923,027; Aug. 15.
Stevenson, George, assignor of one-half to C. A. Hoover, Richmond, Ind. Automatic temperature control for furnaces. 1,922,403; Aug. 15.
Stewart, Edward C., assignor to Tygart Valley Glass Company, Washington, Pa. Method of and apparatus for feeding smelting furnaces. 1,922,827; Aug. 15.
Stiles, Jot E. (See Hogrefe, W. J., and Stiles.)
Stine, Samuel B., Osceola Mills, Pa. Making screens. 1,922,828; Aug. 15.
Stirn, L. & E., Inc. (See Cohen, William, assignor.)
Stith, Charles M., Liberal, Kans. Wind board. 1,922,986; Aug. 15.
Stokes, John S., Huntingdon Valley, assignor to Stokes and Smith Company, Philadelphia, Pa. Laminated box. 1,922,506; Aug. 15.
Stokes and Smith Company. (See Stokes, John S., assignor.)
Stone, J., & Company Limited. (See Honey, Alfred E., assignor.)
Stone, John S., San Diego, Calif., assignor to American Telephone and Telegraph Company. Antenna array. 1,922,115; Aug. 15.
Stone, John S., San Diego, Calif., assignor to American Telephone Company. Antenna array. 1,922,116; Aug. 15.
Storm, Adolph, and T. Thorsen, assignors to Storm Manufacturing Co., Inc., Minneapolis, Minn. Tailstock for lathes, grinders, and the like. 1,922,404; Aug. 15.
Storm Manufacturing Co. (See Storm, A., and Thorsen, assignors.)
Stout, Doyle A. (See Miller, R. M., Schenler and Stout.)
Strandlund, Carl G., and S. M. Madill, assignors to Deere & Company, Moline, Ill. Plow. 1,922,222; Aug. 15.
Straus, Sylvan M., Gloversville, N. Y. Making imitation pigskin gloves. 1,922,507; Aug. 15.
Streib, George J., Mount Vernon, N. Y. Machine for removing and sifting ashes. 1,922,223; Aug. 15.
Strobel, Karl, Whittier, assignor to Karl Strobel Corporation, Puente, Calif. Rock drill. 1,922,559; Aug. 15.
Strobel, Karl, Corporation. (See Strobel, Karl, assignor.)
Ströher, Karl G., Rothenkirchen in Vogtland, Germany. Hair curler. 1,922,061; Aug. 15.
Stuckert, Alfred E., Canton, assignor to Wadert Co., Inc., Cleveland, Ohio. Combustion burner. 1,922,405; Aug. 15.
Stukenborg, Louis C., Memphis, Tenn. Plunger for vehicle lifts. 1,922,406; Aug. 15.
Sturtevant, B. F., Company. (See Bentley, Oliver D. H., assignor.)
Sullivan, Frank J., Oshkosh, Wis. Lock. 1,922,062; Aug. 15.
Sullivan, Harry H., Rochester, N. Y. Printing machine for sensitized material. 1,922,461; Aug. 15.
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sullivan Machinery Company. (See Johansen, Harry C., assignor.)
Sullivan, Willard P., Suffolk, Va. Holder for bricks or the like. 1,922,560; Aug. 15.
Sulloway Mills. (See Vagler, Gertrude, assignor.)
Sun Oil Company. (See Chatfield, Victor M., assignor.)
Sundblad, Folke W., Colorado Springs, Colo. Charging apparatus for open-hearth furnaces. 1,922,987; Aug. 15.
Sundstrand Corporation. (See Anderson, Walter A., assignor.)
Sundt, Edward V., Chicago, Ill. Fuse construction. 1,922,642; Aug. 15.
Sundt, Edward V., and B. Kollath, Chicago, Ill. Electrical connecter construction. 1,922,643; Aug. 15.
Superfine Chemicals Limited. (See Dering, Henry O., assignor.)
Superheater Company, The. (See Armacost, W. H., and Swartz, assignors.)
Susi, Michelangelo A., assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,514; Aug. 15.
Swartz, Ralph M. (See Armacost, W. H., and Swartz.)
Symington Company, The. (See Barrows, Donald S., assignor.)
Symington Company, The. (See Kadel, Byers W., assignor.)
Taylor, Edward A., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Zinc sulphate. 1,922,902; Aug. 15.
Taylor, John H. (See Hegan, H. J., and Taylor.)
Taylor, Lee O., assignor to Muskegon Bennett Corporation, Muskegon, Mich. Back. Des. 90,515; Aug. 15.
Teague, Walter D., New York, N. Y., assignor to American Gas Machine Company, Albert Lea, Minn. Cabinet heater. Des. 90,516; Aug. 15.
Technicolor, Inc. (See Troland, Leonard T., assignor.)
Teeter, Wilford H., assignor to Delco Products Corporation, Dayton, Ohio. Charge forming device. 1,922,407; Aug. 15.
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Ehlert, P., and Fassler, assignors.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Hammer, Arthur, assignor.)
Templeman, John P., Chicago, Ill. Hand operated car brake. 1,922,988; Aug. 15.
Tengström, Hans, Berlin-Steglitz, Germany, assignor to General Electric Company. Gate hoisting system. 1,922,829; Aug. 15.
Terry, Albert A., Middle Brighton, Victoria, Australia. Device for suspending towels, drying cloths and other objects. 1,922,989; Aug. 15.
Terry, Matson C., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Refrigerating apparatus. 1,922,508; Aug. 15.
Terry, Walter J., Seattle, Wash. Straight dental handpiece. 1,922,644; Aug. 15.
Texas Company, The. (See Gee, William P., assignor.)
Thada, Walter L., Klemme, Iowa. Animal trap. 1,922,265; Aug. 15.
Thide, Charles, Brooklyn, N. Y. Motion picture changeover and cut-off device. 1,923,042; Aug. 15.
Thiermann, Johann E., Stuttgart, Germany. Machine tool. 1,922,751; Aug. 15.
Thomas, Adolph A., New York, N. Y. Loudspeaker. 1,922,181; Aug. 15.
Thomas & Betts Co., The. (See Buchanan, Stephen N., assignor.)
Thompson, Alfred P., Long Island City, assignor to General Chemical Company, New York, N. Y. Removing hydrogen sulphide from natural gas. 1,922,872; Aug. 15.
Thompson, Harold D., assignor to Piggly Wiggly Corporation, Cincinnati, Ohio. Store illuminating device. 1,922,786; Aug. 15.
Thompson, Parker C., Elmira, N. Y. Toy. 1,922,990; Aug. 15.
Thompson, Russell G., and C. W. Crumrine, assignors to Electromatic Typewriters, Inc., Rochester, N. Y. Typewriting machine. 1,922,991; Aug. 15.

Thorsen, Thor. (See Storm, A., and Thorsen.)
Thurm, Richard, assignor to Baker Perkins Company, Inc., Saginaw, Mich. Heating by circulating heat-transferring liquids. 1,922,509; Aug. 15.
Tidmus, Allan H., and F. A. Reeson, Spondon, near Derby, England, assignors to Celanese Corporation of America. Manufacture of artificial filaments, threads, and the like. 1,922,718; Aug. 15.
Tighe, Thomas, jr., Chicago, Ill. Protector for foods. 1,922,992; Aug. 15.
Tjimstra, Sijbren, Clayton, Mo., assignor to Shell Petroleum Corporation. Revivification and preservation of chemical solutions. 1,922,224; Aug. 15.
Tipp Fireworks Company, The. (See Driggs, Louis L., jr., assignor.)
Tobin, Kenneth J., assignor to Camel Company, Chicago, Ill. Track and support therefor. 1,922,337; Aug. 15.
Tocci, Gennaro, Boulder City, Nev. Ventilating and cooling system for concrete dams or other heavy concrete constructions. 1,922,561; Aug. 15.
Todd Dry Dock, Engineering & Repair Corporation. (See Meachem, Harry, assignor.)
Todoruk, William, and H. Chornoby, Calgary, Alberta, Canada. Revolving harrow and weeder. 1,922,878; Aug. 15.
Toman, E., & Co. (See Toman, Michael E., assignor.)
Toman, Michael E., assignor to E. Toman & Co., Chicago, Ill. Thermostatic air valve. 1,922,266; Aug. 15.
Torinus, Gustav, Bad Soden on Taunus, Germany, assignor to General Aniline Works, Inc., New York, N. Y. New reserving preparation and reserve dyeing process. 1,922,993; Aug. 15.
Touchman, Alexander, Piqua, Ohio. Headlight. 1,922,787; Aug. 15.
Tournier, Ferdinand, Lyon, France. Brassière. Des. 90,517; Aug. 15.
Tow, James O. (See Wickersham, H. P., and Tow.)
Tower, Elmer V. J., North Syracuse, assignor, by mesne assignments, to Automotive Patents Corporation, New York, N. Y. Friction clutch. 1,922,645; Aug. 15.
Townsend, John J., Hayward, Calif. Trailer brake operating mechanism. 1,922,719; Aug. 15.
Tranchell, Jacob J., assignor to Highway Form Company, Portland, Oreg. Street marker, construction form and screed. 1,922,462; Aug. 15.
Transit Mixers, Inc. (See Knowles, Albert, assignor.)
Tretolite Company. (See De Groote, Melvin, assignor.)
Troland, Leonard T., Cambridge, Mass., assignor, by mesne assignments, to Technicolor, Inc., New York, N. Y. Restraining dye diffusion and resulting product. 1,923,043; Aug. 15.
Troyk, Felix Morris, assignor to Self-Locking Carton Company, Chicago, Ill. Egg carton. 1,922,145; Aug. 15.
Tuco Products Corporation. (See Chemberlain, Harold B., assignor.)
Turner, Cameron, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating machine. 1,922,117; Aug. 15.
Turski, Joseph F., Warsaw, Poland. Dyeing and the dyed materials produced. 1,922,463; Aug. 15.
Tygart Valley Glass Company. (See Stewart, Edward C., assignor.)
Tymstra, Sybren R., Flushing, assignor to Semet-Solvay Engineering Corporation, New York, N. Y. Operating mechanism for valves. 1,922,674; Aug. 15.
Tynan, Henry J., Ridgewood, N. J. Thread feeding mechanism. 1,922,146; Aug. 15.
Underwood, Henry V., Belmont, N. C. Package holder for dyeing machines. 1,922,408; Aug. 15.
Uneon Limited. (See Soundy, Leonard H., assignor.
Union Carbide Company. (See Mansfield, Ralph G., assignor.)
Union Drawn Steel Company. (See Kornbrath, Frederick, assignor.)
Union Hardware Company. (See Hoerle, W. F., and Pardon, assignors.)
Union Machinery Company. (See Marasso, Fred, assignor.)
Union Special Machinenfabrik, G. m. b. H. (See Luts, Friedrich, assignor.)
Union Switch and Signal Company, The. (See Hovey, Mark H., assignor.)
Union Switch & Signal Company, The. (See Sorensen, Andrew J., assignor.)
United Aircraft Products, Inc. (See Hiester, Theodore M., assignor.)
United American Bosch Corporation. (See Beeh, L., and Schwarzmann, assignors.)
United-Carr Fastener Corporation. (See Carr, Moses F., assignor.)
United Chromium, Inc. (See Kissel, Hermann, assignor.)
United Mattress Machinery Company. (See Mathewson, Wilfred B., assignor.)
United Research Corporation. (See Berkowitz, Michael, assignor.)
United Shoe Machinery Corporation. (See Hamann, William, assignor.)
United Shoe Machinery Corporation. (See Johnson, Arthur S., assignor.)
United Shoe Machinery Corporation. (See Jones, John L., assignor.)
United Shoe Machinery Corporation. (See Larsson, Johan E., assignor.)
United Shoe Machinery Corporation. (See Murphy, Everett E., assignor.)
United Shoe Machinery Corporation. (See Ricks, Fred, assignor.)
United Shoe Machinery Corporation. (See Turner, Cameron, assignor.)
United States Air Compressor Company, The. (See Pelouch, J. J., and Schultz, assignors.)
Universal Alloys, Incorporated, et al. (See Grenagle, James B., assignor.)
Upstarter Company. (See Ronaldson, Robert T., assignor.)
Urbain, Oliver M., Columbus, assignor to Charles H. Lewis, Harpster, Ohio. Removing emulsoids from water solutions. 1,922,464; Aug. 15.
Urquhart, George G., Cynwyd, and A. C. Jones, Conshohocken, Pa., assignors to American Fomon Company, Philadelphia, Pa. Foam stabiliser. 1,922,510; Aug. 15.
Vagler, Gertrude, Brooklyn, N. Y., assignor to Sulloway Mills, Franklin, N. H. Machine for uniting looped fabrics. 1,923,005; Aug. 15.
Van Beke, Emil A. (See Peterson, J. E., and Van Beke.)
Van Ness, Henry E., Elmira, N. Y. Dyeing apparatus. 1,922,511; Aug. 15.
Van Schaack Bros. Chemical Works, Inc. (See Van Schaack, E. H., jr., and Calvert, assignors.)
Van Schaack, Robert H., jr., and R. Calvert, Chicago, Ill., assignors to Van Schaack Bros. Chemical Works, Inc. Pyroxylin composition containing derivatives of ethylene glycol. 1,922,646; Aug. 15.
Vapor Car Heating Company. (See Parks, P. B., and Miller, assignors.)
Vaporedair Corporation. (See Wales, Nathaniel B., assignor.)
Varney, William, et al. (See Grenagle, James B., assignor.)
Vaughn, Sidney P., U. S. Navy, Ackerman, Miss. Thermostat. 1,922,720; Aug. 15.
Vaughn, Stanley I., Kenmore, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc. Monocoque body. 1,922,063; Aug. 15.
Vendi Cater, Inc. (See McCormick, J. H., and Bender.)
Vetter, Ignatius J., New York, N. Y., assignor to Bigelow Sanford Carpet Co., Inc. Rug. Des. 90,518; Aug. 15.
Vivian, George S., Norbury, London, assignor of one-half to T. B. Ford Limited, Buckinghamshire, England. Fountain pen. 1,922,831; Aug. 15.
Vocophone Company, The. (See McKesson, Elmer I., assignor.)
Vogler, Karl, Pforzheim, assignor to the Firm of Württ. Bürsten-u. Pinsel-Fabrik Kullen & Co., Reutlingen, Germany. Brush. 1,922,752; Aug. 15.
Voight, Charles G., Hicksville, N. Y. Trimming joint. 1,922,994; Aug. 15.
Voith, Walther, Saint Polten, Austria. Propelling and steering water or air ships. 1,922,606; Aug. 15.
Volck, William H., Watsonville, assignor to California Spray-Chemical Corporation, San Francisco, Calif. Insecticide carrier, spreader, and emulsifier and making same. 1,922,607; Aug. 15.
Von Conta, Walther, Brooklyn, N. Y. Safety pin carding machine. 1,922,608; Aug. 15.
Vonnegut Hardware Company. (See Powell, John F., assignor.)
Wadert Co. (See Stuckert, Alfred E., assignor.)
Wadewitz, Martin, and R. Elsner, Elizabethton, Tenn., assignors to American Glanzstoff Corporation, New York, N. Y. Manufacture of dull luster artificial silk. 1,922,903; Aug. 15.
Wagner, Charles F., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulating apparatus. 1,922,182; Aug. 15.
Waldorf Paper Products Company. (See Schilling, Paul A., assignor.)
Wales, Nathaniel B., assignor to Vaporedair Corporation, New York, N. Y. Atomising and evaporating device for vegetables and the like. 1,922,147; Aug. 15.
Wall, Bode N., Vancouver, British Columbia, Canada. Church. Des. 90,519; Aug. 15.
Wallace & Tiernan Products Inc. (See Baker, John C., assignor.)
Wallace & Tiernan Company. (See Yeagley, Albert S., jr., assignor.)
Wallach, Frederick, assignor of one-half to P. Munk, New York, N. Y. Refrigerator cabinet. 1,922,995; Aug. 15.
Walter, Carroll M. (See Russell, C. A., and Walker.)
Walters, Emmett L. (See Goodwillie, D. H., and Walters.)
Walther, George, near Dayton assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Metal wheels. 1,923,028; Aug. 15.
Walton, Joseph L., Pinole, Calif. Nitrogenous fertiliser and producing same. 1,922,562; Aug. 15.
Ware, Robert R., assignor to Chicago Roller Skate Company, Chicago, Ill. Roller. 1,922,609; Aug. 15.
Warren, Joseph J., Pittsburgh, Pa. Football game. 1,922,904; Aug. 15.
Waterbury Tool Company, The. (See Ellis, A. L., and Francis, assignors.)
Watrous, Earl G., Chicago, Ill. Plumbing device. 1,922,647; Aug. 15.
Watts, Felix J., assignor to H. A. Douglas, Bronson, Mich. Circuit continuing device. 1,922,648; Aug. 15.
Weatherby, Kenneth C. (See Mellink, C. F., and Weatherby.)

Weaver, George B., Springfield, Mass., and W. J. Knaut, New Haven, Conn., assignors to Indian Motorcycle Company, Springfield, Mass. Street sweeper. 1,922,338; Aug. 15.
Weichhart, Henry A., Alameda, Calif. Pump. 1,922,721; Aug. 15.
Weingartner, Anthony R., assignor to American Engineering Company, Philadelphia, Pa. Balancing mechanism for automatic fluid control systems. 1,922,512; Aug. 15.
Weiss, Ike, Brooklyn, N. Y. Rumble seat top. 1,922,267; Aug. 15.
Welded Fabrics Corporation. (See Southwell, R. J., and Wickwire, jr., assignors.)
Welded Fabrics Corporation. (See Southwell, R. J., and Wickwire, assignors.)
Welded Fabrics Corporation. (See Wickwire, Theodore H., jr., assignor.)
Welch, W. M., Mfg. Co. (See Kopp, Reinhold A., assignor.)
Wendtland, Heins, Altona, Germany. Acetylene generator. 1,922,649; Aug. 15.
Wensley, Roy J., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,922,183; Aug. 15.
West, John W., Maplewood, N. J., assignor to Frozen Confections, Inc., New York, N. Y. Machine for operating on plastic materials. 1,922,563; Aug. 15.
Westbrook, Leon R., Cleveland Heights, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Purifying technical sodium meta-silicate hydrates. 1,922,332; Aug. 15.
Wester, Charles E., Ironwood, Mich. Cigarette supply clip or receptacle. 1,922,996; Aug. 15.
Western Cartridge Company. (See Olin, Franklin W. and J. M., and Clyne, assignors.)
Western Electric Company. (See Johnson, R., and Siebs, assignors.)
Western Electric Company. (See Mathes, Robert C., assignor.)
Western Electric Company. (See Spear, Jay P., assignor.)
Western Union Telegraph Company, The. (See Chulstrom, John M., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Baker, R. M. and Smede, assignors.)
Westinghouse Electric & Manufacturing Company. (See Boddie, Clarence A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brecht, Winston A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Cowin, S. H., and Hibbard, assignors.)
Westinghouse Electric & Manufacturing Company. (See Frank, Leo C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jungk, Herbert G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Koch, Gustav H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lyle, Frederick W., assignor.).
Westinghouse Electric & Manufacturing Company. (See McCulloch, Leon, assignor.)
Westinghouse Electric & Manufacturing Company. (See Packer, Lewis C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Steenbeck, M., and Berthold, assignors.)
Westinghouse Electric & Manufacturing Company. (See Terry, Matson C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wagner, Charles F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wensley, Roy J., assignor.)
Westinghouse Electric & Manufacturing Company. (See White, Kenneth M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wilson, Earl D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Zworykin, Vladimir K., assignor.)
Westling, Carl J., Chicago, Ill. Valve. 1,922,064; Aug. 15.
Wetherall, Lucian F., assignor of one-half to S. Brownstein, Huntington, W. Va. Combination heating and cooling device for automobiles. 1,922,788; Aug. 15.
Wheary, George H., assignor to Wheary Trunk Company, Racine, Wis. Trunk. 1,922,065; Aug. 15.
Wheary, Trunk Company. (See Wheary, George H., assignor.)
White, Kenneth M., Lombard, Ill., assignor to Westinghouse Electric & Manufacturing Company. Soundproof base for machines. 1,922,184; Aug. 15.
White, Otis C., Worcester, Mass. Hinge. 1,922,753; Aug. 15.
Whitin Machine Works. (See Crockett, Frank L., assignor.)
Wickersham, Harry P., Huntington Park, and J. O. Tow, South Pasadena, Calif. Control valve. 1,922,225; Aug. 15.
Wicks, John, Oak Park, assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. Re18,917; Aug. 15.
Wickwire Spencer Steel Company. (See Smith, Herbert, assignee.)
Wickwire, Theodore H., jr. (See Southwell, R. J., and Wickwire.)
Wickwire, Theodore H., jr., assignor to Welded Fabrics Corporation, New York, N. Y. Zigzag mesh fabric. 1,922,269; Aug. 15.
Widner, Harlon L., Fayetteville, Tenn. Combination level and gauge. 1,922,997; Aug. 15.
Wiedmann, Ernst, assignor to The Oilgear Company, Milwaukee, Wis. Forming press. 1,922,513; Aug. 15.
Will-Burt Company, The. (See Baer, Edward G., assignor.)
Willard Storage Battery Company. (See Dunsweiler, Carl J., assignor.)
Willheim, William, Co. (See Overmeyer, John, assignor.)
Williams, Jacob, Flushing, N. Y. Combined pan scraper, shovel, and broom. 1,922,998; Aug. 15.
Williams, Richard A., assignor to Yates-American Machine Company, Beloit, Wis. Sander drum. 1,922,905; Aug. 15.
Williams, Thomas, New Castle, Pa. Collapsible tube cap. 1,922,999; Aug. 15.
Willoughby, John A., Cambridge, Mass. Circuit arrangement. 1,922,650; Aug. 15.
Wilson, Earl D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Photo-tube. 1,922,185; Aug. 15.
Wilson, Edwin L., assignor to Popular Mechanics Co., Chicago, Ill. Stereotype casting apparatus. 1,922,514; Aug. 15.
Wilson, James C., Great Haywood, and H. S. Carnegie, Stafford, England. Electric ship-propulsion system. 1,922,226; Aug. 15.
Wingert, William B., Detroit, Mich., assignor to Semet-Solvay Company, New York, N. Y. Manufacture of direct ammonium sulphate. 1,922,186; Aug. 15.
Winkler, Fritz, H. Haeuber, and P. Feiler, Ludwighafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of liquid, in particular aromatic hydrocarbons. 1,922,918; Aug. 15.
Wired Radio, Inc. (See Hotopp, Alfred H., jr., assignor.)
Wired Radio, Inc. (See Hund, August, assignor.)
Witherow, William P., Pittsburgh, and P. L. Coyle, Coraopolis, Pa., assignors to Republic Steel Corporation, Youngstown, Ohio. Die rolling. 1,923,017; Aug. 15.
Wobbe, Alfred H., Chicago, Ill. Clutch. 1,922,833; Aug. 15.
Wojtowicz, Frank. (See Sobocinski, Felix L., assignor.)
Wolf, Louis, Philadelphia, Pa. Flowerpot handle. 1,922,066; Aug. 15.
Wolf, Peter, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Closing means, more particularly for milk cans and the like. 1,922,789; Aug. 15.
Wood, Frank E., Girard, Pa. Nut cracker. 1,922,515; Aug. 15.
Wood-Mosaic Co. (See Birtles, Arthur B., assignor.)
Woodward, Thompson E., College Park, Md. Calculator. 1,922,465; Aug. 15.
Woolley, William P., Jackson, Miss. Suspension spring device. 1,922,339; Aug. 15.
Wooten, Arthur L., Little Rock, Ark. Apparatus for delinting and softening cotton seed. 1,922,118; Aug. 15.
Worthington Pump and Machinery Corporation. (See Riesner, Michael, assignor.)
Wright, Aubern E., Nappanee, Ind. Rod connecter. 1,922,564; Aug. 15.
Württ Bürsten-u. Pinsel-Fabrik Kullen Co. (See Vogler, Karl, assignor.)
Wyss, Roland, Brush, Colo. Torch holder. 1,922,409; Aug. 15.
Yamamoto, Komso, Tokyo, Japan. Preparing poultry food. 1,922,919; Aug. 15.
Yates-American Machine Company. (See Williams, Richard A., assignor.)
Yeagley, Albert S., jr., Dallas, Tex., assignor to Wallace & Tiernan Company, Inc., Belleville, N. J. Valve controlling apparatus for chlorinators. 1,922,268; Aug. 15.
Yoder, Benjamin H., assignor, by mesne assignments, to Industrial Patents Corporation, Chicago, Ill. Hatch cover. 1,922,067; Aug. 15.
Yoder, Theodore D., Iowa City, Iowa. Antidraft apparatus for doors. 1,922,068; Aug. 15.
Yoes, Edna, Oklahoma City, Okla. Exercising and amusement device. 1,922,466; Aug. 15.
York Band Instrument Company. (See Johnson, Alfred J., assignor.)
Youker, Mortimer A. (See Layng, T. E., and Youker.)
Young, Christian, Detroit, Mich. Ventilating skylight. 1,922,410; Aug. 15.
Young, Howard F., assignor of one-half to L. S. Young, Kalamazoo, Mich. Concrete construction. 1,922,840; Aug. 15.
Young, Leonie S. (See Young, Howard F., assignor.)
Youngstown Steel Door Company, The. (See Henricks, Harold H., assignor.)
Zeiss, Carl, the Firm. (See Gundlach, Karl, assignor.)
Zisch, Walter, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to E. I. du Pont de Nemours and Company. Purification of air. 1,922,187; Aug. 15.
Zitkowski, Emil C., San Fernando, P. I. Automatic continuous liming device. 1,922,411; Aug. 15.
Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Tachometer. 1,922,610; Aug. 15.
Zworykin, Vladimir K., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Inspection device. 1,922,188; Aug. 15.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 15TH DAY OF AUGUST, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abutment for container vehicles, Movable. S. H. Owens. 1,922,632; Aug. 15.
Accessory for cooking vessels. E. V. Coulston. 1,922,419; Aug. 15.
Accordion. M. B. Luttbeg. 1,922,381; Aug. 15.
Acetylene generator. H. Wendtland. 1,922,649; Aug. 15.
Acid: *See*—
2-naphthalenemonosulphonic acid.
Acid, Concentrating nitric. C. W. Davis, S. L. Handforth, and W. E. Kirst. 1,922,278; Aug. 15.
Acid, Concentrating nitric. S. L. Handforth. 1,922,289; Aug. 15.
Acid, Producing hydrocyanic. E. Münch, F. Nicolai, and W. Reppe. 1,922,492; Aug. 15.
Acoustic vibration. K. Pulvermacher. 1,922,821; Aug. 15.
Adhesive-applying mechanism. I. S. Bodkin. 1,922,523; Aug. 15.
Advertising apparatus, Circulating display. T. A. Jenkins. 1,922,541; Aug. 15.
Advertising device. T. C. Fowler. 1,922,579; Aug. 15.
Aerial eliminator. F. L. Sobocinski. 1,922,385; Aug. 15.
Aeroplane wing structure and making the same. V. Loughead. 1,922,311; Aug. 15.
Air cleaner. T. G. Moulding and J. T. Beatty. 1,922,315; Aug. 15.
Air cleaner, Multistage type. H. G. Kamrath. 1,922,688; Aug. 15.
Air conditioning apparatus. F. R. Alger. 1,922,790; Aug. 15.
Air cooled brake. J. Mulder. 1,922,318; Aug. 15.
Air cooled combustion engine. L. C. Frank. 1,922,200; Aug. 15.
Aircraft. J. H. Crosman, 3d. 1,922,124; Aug. 15.
Aircraft. R. G. Jones. 1,922,371; Aug. 15.
Air drying composition. H. L. Bender. 1,922,272; Aug. 15.
Air induction means for internal combustion engines. A. Rosner. 1,922,640; Aug. 15.
Airplane. J. Squires. 1,922,825; Aug. 15.
Air, Purification of. W. Zisch. 1,922,187; Aug. 15.
Air valve. W. J. Daubenspeck. 1,922,280; Aug. 15.
Air valve, Thermostatic. M. E. Toman. 1,922,266; Aug. 15.
Alarm, Temperature. E. F. Gekler. 1,922,580; Aug. 15.
Aldehydeamine cinchona bark alkaloid condensation product. R. E. Lawrence. 1,923,057; Aug. 15.
Aldehydeamine cinchona bark alkaloid inhibitors. R. E. Lawrence. 1,923,055; Aug. 15.
Aluminum, Apparatus for smelting. J. G. G. Frost. 1,922,428; Aug. 15.
Aluminum, Melting. J. G. G. Frost. 1,922,429; Aug. 15.
Amino-hydroxyanthraquinones, Manufacture of. E. Koechler. 1,922,480; Aug. 15.
Ammonium sulphate, Manufacture of direct. W. B. Wingert. 1,922,186; Aug. 15.
Ampule, Filling an. W. Schaeffer. 1,922,458; Aug. 15.
Ampulla, Multiple. S. Kabnick. 1,922,811; Aug. 15.
Amusement apparatus. A. Gueydan. 1,922,802; Aug. 15.
Animal trap. H. Peterson. 1,923,039; Aug. 15.
Animal trap. W. L. Thada. 1,922,265; Aug. 15.
Antenna array. J. S. Stone. 1,922,115–16; Aug. 15.
Antidraft apparatus for doors. T. D. Yoder. 1,922,068; Aug. 15.
Arc extinguishing device for electric switches. J. Sachs. 1,922,060; Aug. 15.
Arc lamp. W. R. Gruber. 1,922,036; Aug. 15.
Armature for magnetic loud speakers. A. Hammer. 1,922,679; Aug. 15.
Article supporting bracket. H. A. Du Bois. 1,922,985; Aug. 15.
Astragal, Compensating. J. F. Powell. 1,922,860; Aug. 15.
Atomizing and evaporating device for vegetables and the like. N. B. Wales. 1,922,147; Aug. 15.
Attachment plug. C. Hannan, jr. 1,922,948; Aug. 15.
Automatic coupling. C. Kuppers. 1,922,542; Aug. 15.
Automatic mill mixer. H. D. Stevens. 1,923,027; Aug. 15.
Automobile body. S. D. Locke and H. J. Stegeman. 1,922,545; Aug. 15.
Automobile jack. H. A. Elwell. 1,922,475; Aug. 15.
Automobile license tag holder. L. Locollo and A. Morra. 1,922,595; Aug. 15.
Awning arm bracket. H. C. Heiser. 1,922,764; Aug. 15.
Bag: *See*—
Ice cream shipping bag. Waterproof bag.
Bag holder. F. B. Elliott. 1,922,938; Aug. 15.
Bait holder. N. A. Kristman. 1,922,702; Aug. 15.
Balancing mechanism for automatic fluid control systems. A. E. Weingartner. 1,922,512; Aug. 15.
Ballistic characteristics of ammunition, Method and apparatus for determining interior. F. W., and J. M. Olin, and R. G. Clyne. 1,922,820; Aug. 15.
Barrel. H. L. Hoyt. 1,922,588; Aug. 15.
Barrel making machine. R. W. McClenny and G. L. Carpenter. 1,922,384; Aug. 15.
Base and standard for a lamp, Combined. F. E. Greene. Des. 90,483; Aug. 15.
Basket handle. L. M. Hile. 1,922,808; Aug. 15.
Basket handle. L. M. Hile. 1,922,809; Aug. 15.
Basket, Rectangular. L. M. Hile. 1,922,807; Aug. 15.
Bast fiber from shives, Separating. C. C. Heritage, E. R. Schafer, and L. A. Carpenter. 1,922,366; Aug. 15.
Bathroom fixture. W. G. Bauch. 1,922,345; Aug. 15.
Bathtub support. F. G. Brotz. 1,922,839; Aug. 15.
Battery hand lamp. C. A. Gillingham. 1,922,801; Aug. 15.
Bearing: *See*—
Shaft bearing.
Bearing construction and making the same. L. R. Heim. 1,922,805; Aug. 15.
Bearing for looms, Rocker shaft. C. D. Brown. 1,922,026; Aug. 15.
Bearing manufacture. W. H. Klocke. 1,922,304; Aug. 15.
Bed construction. A. V. Sedlock. 1,922,503; Aug. 15.
Bed, Hospital. C. D. Lukens. 1,922,104; Aug. 15.
Bed rail fastener. J. I. Norris. 1,922,388; Aug. 15.
Bed, Sliding couch. P. P. Bebry. 1,922,613; Aug. 15.
Belt, Exercise. A. W. Brand. 1,922,566; Aug. 15.
Billet handling in continuous heating furnaces. W. H. Engelberts. 1,922,888; Aug. 15.
Billet surfacing machine. L. C. Reis. 1,922,980; Aug. 15.
Billfold. P. A. Gardner. 1,922,619; Aug. 15.
Binder, Loose leaf. LeR. E. Hutchings. 1,923,022–3; Aug. 15.
Binder, Loose leaf. C. E. Morehouse. 1,922,691; Aug. 15.
Block: *See*—
Glass polishing block. Molded block.
Bluing package. E. G. Goudey. 1,922,085; Aug. 15.
Board: *See*—
Wind board.
Boat, Flying. F. Kleinbens. 1,922,769; Aug. 15.
Boiler: *See*—
Steam boiler. Water tube boiler.
Boiler and furnace wall having water walls, Duplex. D. H. N. Mayo. 1,922,665; Aug. 15.
Boiler check and stop valve, Double top. C. B. Allen. 1,923,029; Aug. 15.
Boiler construction. T. E. Murray. 1,922,599; Aug. 15.
Boiler return and vacuum trap. S. C. Knefel. 1,922,164; Aug. 15.
Bookholder. J. E. Newberg. 1,922,215; Aug. 15.
Bookkeeping machines, Debit and credit shift mechanism for. W. A. Anderson. 1,922,653; Aug. 15.
Book support. P. La Delfa. Des. 90,490; Aug. 15.
Boot for universal joints, Flexible. H. D. Geyer. 1,922,431; Aug. 15.
Boots and shoes, Antislipping projection for. W. H. Bird. 1,922,924; Aug. 15.
Bottle labeling machine. J. O. Fenner. 1,922,577; Aug. 15.
Bowl and clean-out construction therefor, Water closet. S. Krinsky. 1,922,961; Aug. 15.
Box: *See*—
Cardboard box. Paper box.
Laminated box. Strong box.
Outlet box.
Box. P. A. Schilling. 1,923,399; Aug. 15.
Box blank, Wirebound. A. F. Durand. 1,922,842; Aug. 15.
Box construction. H. H. Burke. 1,922,854; Aug. 15.
Box construction. I. A. Deline. 1,922,571; Aug. 15.
Boxing bouts and the like, Apparatus for scoring. C. M. Amory. 1,922,517; Aug. 15.
Bracket: *See*—
Article supporting bracket. Lamp shade bracket.
Awning arm bracket.
Bracket for curtain rods. G. M. and W. C. Kenney. 1,923,024; Aug. 15.
Brake: *See*—
Air cooled brake. Safety brake.
Car brake. Vehicle brake.
Brake. H. T. Lambert. 1,922,307; Aug. 15.
Brake. E. Poppe. 1,922,779; Aug. 15.
Brake operating mechanism, Trailer. J. J. Townsend. 1,922,719; Aug. 15.
Brake tester, Static. R. K. Cadwell. 1,922,659; Aug. 15.
Brake testing mechanism. C. E. Starr. 1,922,871; Aug. 15.
Braking system, Fluid pressure. W. A. Brecht. 1,922,227; Aug. 15.

Branding articles, Apparatus for. W. E. Humphrey. 1,922,852; Aug. 15.
Brassière. F. Tournier. Des. 90,517; Aug. 15.
Brine freezing and icing or glazing edibles, Apparatus for. A. H. De Rome. 1,922,795; Aug. 15.
Briquetted materials, Sintering. C. R. Short. 1,922,402; Aug. 15.
Broadcast receiver apparatus. H. Y. Prendergast. 1,922,861; Aug. 15.
Brooder. T. H. Hart. 1,922,086; Aug. 15.
Brush. K. Vogler. 1,922,752; Aug. 15.
Bucket or like receptacle. J. W. Robertson. 1,922,981; Aug. 15.
Buffing wheel. J. W. Myers and E. E. Murray. 1,922,108; Aug. 15.
Building product and making the same. T. Robinson. 1,922,501; Aug. 15.
Bung fixture for containers and seal therefor. I. H. Rieke. 1,923,026; Aug. 15.
Burner: *See*—
Combustion burner. Liquid fuel and gas burner.
Gas burner.
Burner. V. S. Beck. 1,922,348; Aug. 15.
Burner and feed mechanism, Coal. S. Klein. 1,922,960; Aug. 15.
Butter and like divider. J. Bens. 1,922,723; Aug. 15.
Button. W. F. Haas. Des. 90,487; Aug. 15.
Cabinet. C. F. Meilink. 1,922,487; Aug. 15.
Cabinet construction. H. Smith. 1,922 504; Aug. 15.
Cabinet heater. W. D. Teage. Des. 90,516; Aug. 15.
Cabinet, Refrigerator. F. Wallach. 1,922,995; Aug. 15.
Cabinet, Towel. O. J. Flack. 1,922,845; Aug. 15.
Cable. P. H. Chase. 1,922,907; Aug. 15.
Cable, Shielded rubber insulated. W. A. Del Mar. 1,922,726; Aug. 15.
Calcium chloride and making same, Prepared. S. B. Heath. 1,922,697; Aug. 15.
Calculator. T. E. Woodward. 1 922,465; Aug. 15.
Calibrating means for oil gauges. B. H. Chisholm. 1,922,616; Aug. 15.
Call mechanism, Automatic. D. W. Driscoll. 1,922,572; Aug. 15.
Can: *See*—
Sanitary waste can.
Candle, Fliter. W. Moos. 1,922,315; Aug. 15.
Canning machine. C. H. Ayars. 1,922,148; Aug. 15.
Cannon. L. L. Driggs, jr. 1,922,080; Aug. 15.
Caoutchouc like bodies, Manufacture of. J. Baer. 1 922,923; Aug. 15.
Car brake, Hand operated. J. P. Templeman. 1,922,988; Aug. 15.
Car Mine. A. R. Long. 1,922,310; Aug. 15.
Carbonaceous materials, Destructive hydrogenation of. C. Krauch and W. Simon. 1,922,542; Aug. 15.
Carbonaceous materials, Destructive hydrogenation of. M. Pier and W. Simon. 1,922,499; Aug. 15.
Carbonaceous materials, Extracting the volatile constituents from. R. B. Parker. 1,922,321; Aug. 15.
Carburetor. F. E. Aseltine. 1,922,414; Aug. 15.
Carburetor. L. De Marco. 1,922,569; Aug. 15.
Cardboard box. A. Klein. 1,922,854; Aug. 15.
Carton, Egg. F. Troyk. 1,922,145; Aug. 15.
Case: *See*—
Key case.
Cash register. S. Brand. 1,922,025; Aug. 15.
Caster construction. F. K. Kilian. 1,922,098; Aug. 15.
Caster for furniture and the like. F. K. Kilian. 1,922,099; Aug. 15.
Caster wheel. C. W. Millet. 1,922,556; Aug. 15.
Castings, Production of metal. R. W. Bailey. 1,923,000; Aug. 15.
Catheter and drainage tube, Self-retaining. J. W. Gerow. 1,922 084; Aug. 15.
Caustic soda, Manufacturing. P) Krassa. 1,922,591; Aug. 15.
Cellulose esters and making same. R. Haller and A. Ruperti. 1,922,287; Aug. 15.
Cementing apparatus for oil and gas wells. J. F. Robinson, J. M. Chilcote, and W. H. Haupt. 1,922,780; Aug. 15.
Chain: *See*—
Tire chain.
Chair: *See*—
Foldable chair. Posture regulating chair.
Chair or similar article. J. R. Kirkpatrick. Des. 90,489; Aug. 15.
Chair, Rustic. L. E. and C. A. Leonard. Des. 90,491; Aug. 15.
Channel cementing machine. F. Ricks. 1,922,140; Aug. 15.
Charge forming device. W. H. Teeter. 1,922,407; Aug. 15.
Charging apparatus for open-hearth furnaces. F. W. Sundblad. 1,922,987; Aug. 15.
Check device, Automatic safety. R. Martini, jr. 1,922,252; Aug. 15.
Chemical pulp, Making. J. H. Ross, jr. 1,922,262; Aug. 15.
Chemical solutions, Revivification of and preservation of. S. Tijmstra. 1,922,224; Aug. 15.
Chill ring for pipe welding, Removable. H. C. Price and D. R. Redding. 1,922,324; Aug. 15.
Choke and starter switch control. F. Beal. 1,922,346; Aug. 15.
Chromatic flicker in projection apparatus, Device for the elimination of. F. Dorel and E. E. Bellier. 1,922,934; Aug. 15.
Church. R. N. Wall. Des. 90,519; Aug. 15.
Cigarette case, Waterproof. G. Castellano and O. Esposito. Des. 90,476; Aug. 15.
Cinematographic apparatus. G. A. Mitchell. 1,922,742; Aug. 15.
Circuit arrangement. J. A. Willoughby. 1,922,650; Aug. 15.
Circuit breaker and indicator, Automatic reclosing. P. B. Parks and D. W. Miller. 1,922,452; Aug. 15.
Circuit continuing device. F. J. Watts. 1,922,648; Aug. 15.
Circuit, Frequency-changing. F. W. Lyle. 1,922,250; Aug. 15.
Circuit, Insulator heating. A. N. Crowder. 1,922,125; Aug. 15.
Circuit maker. F. Riedel. 1,922,260; Aug. 15.
Circuits for radio sets, Supply. J. G. Aceves. Re18,916; Aug. 15.
Circuits, Volume control. N. C. Norman. 1,922,602; Aug. 15.
Clamping device. P. J. McCullough. 1,922,446; Aug. 15.
Clasp, Collar. B. B. Manaster. Des. 90,493; Aug. 15.
Clay products, Making. E. E. Fisher and M. A. Baernstein. 1,922,083; Aug. 15.
Cleaner: *See*—
Air cleaner.
Cleaning and polishing outfit. J. T. Miller. 1,922,255; Aug. 15.
Clip and making the same, Floor. J. A. MacLean. 1,922,814; Aug. 15.
Clip or receptacle, Cigarette supply. C. E. Wester. 1,922,996; Aug. 15.
Clock, Printing. C. Battegay. 1,922,836; Aug. 15.
Closing means, more particularly for milk cans and the like. P. Wolf. 1,922,789; Aug. 15.
Closure. L. K. Snell. 1,922,112; Aug. 15.
Closure for collapsible tubes. C. W. Johnson. 1,922,204; Aug. 15.
Closure for containers, Friction. H. E. Householder. 1,922,953; Aug. 15.
Closure hold device. C. Greene. 1,922,676; Aug. 15.
Clutch: *See*—
Friction clutch.
Clutch. A. H. Wobbe. 1,922,833; Aug. 15.
Clutching device. V. J. J. Defays and P. J. L. Lefebvre. 1,922,931; Aug. 15.
Coating machine. C. Turner. 1,922,117; Aug. 15.
Coating process and material. H. V. Dunham. 1,922,936; Aug. 15.
Coin controlled mechanism. L. C. Doane. 1,922,358; Aug. 15.
Coin detector. E. A. Bolen. 1,922,925; Aug. 15.
Coin vending machine, Multiple. D. T. Halls. 1,922,915; Aug. 15.
Colander. C. A. Rennacker. 1,923,014; Aug. 15.
Colostomy appliance. R. Gricks. 1,922,763; Aug. 15.
Comb and brush, Pocket. L. H. Bear. 1,922,347; Aug. 15.
Comber, Heilman type. F. L. Crockett. 1,922,030; Aug. 15.
Combination wrench. D. F. Hasty. 1,922,680; Aug. 15.
Combustion burner. A. E. Stuckert. 1,922,405; Aug. 15.
Commutator. C. A. Mudge. 1,922,317; Aug. 15.
Compact. H. A. and B. T. Rauber. 1,922,326; Aug. 15.
Compass. T. R. Rhea. 1,922,864; Aug. 15.
Compressor unit. H. B. Hull. 1,922,092; Aug. 15.
Concrete, Apparatus for mixing. W. A. Jaicks. 1,922,368; Aug. 15.
Concrete construction. H. F. Young. 1,922,340; Aug. 15.
Concrete insert, Adjustable. P. N. Joslin. 1,922,479; Aug. 15.
Concrete mixer. A. Knowles. 1,922,700; Aug. 15.
Condensation on the inside surface of a show case window, Apparatus for preventing. G. B. Burnside. 1,922,927; Aug. 15.
Condensation product of cinchona bark alkaloids with thiuram sulphides. R. B. Lawrence. 1,923,056; Aug. 15.
Condenser. R. N. Ehrhart. 1,922,843; Aug. 15.
Conductor sets in cables, System for transposition of H. Nyquist. 1,922,138; Aug. 15.
Connecter: *See*—
Electric plug connecter. Rod connecter.
Electrical connecter.
Contact drop between current-carrying contents, Method and apparatus for reducing the. R. M. Baker and L. Smede. 1,922,191; Aug. 15.
Container: *See*—
Liquid container. Storage battery container.
Container. C. McMahon. 1,922,171; Aug. 15.
Container. J. P. Spear. 1,922,605; Aug. 15.
Containers, Apparatus for making paper. E. C. Angell. 1,922,189; Aug. 15.
Control and locking mechanism. S. C. Porter. 1,922,454; Aug. 15.
Control apparatus for pumps. H. W. Fletcher. 1,922,427; Aug. 15.
Control device. J. M. Bryant. 1,922,352; Aug. 15.
Control device. E. B. Dunkak. 1,922,573; Aug. 15.
Control device for a machine. C. E. Blocksidge. 1,922,522; Aug. 15.

Control for infinitely variable transmissions. E. R. Pierce. 1,922,624; Aug. 15.
Control system. D. Malpass. 1,922,251; Aug. 15.
Control system, Hydraulic. R. J. Caughey. 1,922,881; Aug. 15.
Control system, Supervisory. R. J. Wensley. 1,922,183; Aug. 15.
Control valve. H. P. Wickersham and J. O. Tow. 1,922,225; Aug. 15.
Conveyer. G. M. Crawford and J. M. London. 1,922,198; Aug. 15.
Conveyer. R. Smith. 1,922,141; Aug. 15.
Conveyer, Apron. S. A. Coleman. 1,922,908; Aug. 15.
Conveyer for use in heat treating furnaces. H. H. Harris. 1,922,039; Aug. 15.
Conveyer installation. C. S. Jennings and L. C. Allen. 1,922,699; Aug. 15.
Conveyer mechanism. J. R. Knopf. 1,923,036; Aug. 15.
Conveyer relay or terminal, Pneumatic. J. M. Chulstrom. 1,923,052; Aug. 15.
Conveyer, Self-loading and unloading trolley. C. A. McKenny. 1,922,970; Aug. 15.
Cooler: *See*—
Counter-current cooler.
Corn harvesting machine. N. R. Krause. 1,922,374–6; Aug. 15.
Corrugated transparent material. F. A. Delano. 1,922,982; Aug. 15.
Cottage, Tourist camp. C. J. Greene. Des. 90,484; Aug. 15.
Cottage, Tourist camp. C. J. Greene. Des. 90,486; Aug. 15.
Cotton, Dispensing. M. H. Smith. 1,922,826; Aug. 15.
Coupling: *See*—
Automatic coupling. Variable coupling.
Hose coupling.
Coupling device. L. A. Elmer. 1,922,669; Aug. 15.
Course indicator for reproducing the indication of a gyro-compass. W. Otto. 1,922,976; Aug. 15.
Cover: *See*—
Hatch cover. Spring cover.
Radiator cover. Switch cover.
Cover for the openings of cooking stove hot plates. O. Herrmann. 1,922,243; Aug. 15.
Cover loosening mechanism. H. D. Lathrop. 1,922,772; Aug. 15.
Covering and preparing same, Bale. B. D. Hubbard. 1,922,046; Aug. 15.
Coumarone, Polymerization of. G. K. Anderson. 1,922,342; Aug. 15.
Counter-current cooler. A. W. Baumann. 1,922,149; Aug. 15.
Crank pin, Cushioned. F. W. Canulette. 1,922,275; Aug. 15.
Crayon and making the same. L. R. Phillips. 1,922,558; Aug. 15.
Cream whipping apparatus. L. Roush. 1,922,749; Aug. 15.
Cresols and preparation thereof, Amyl. W. G. Christiansen and W. A. Lott. 1,922,153; Aug. 15.
Crystal holder or setting. P. Ehlert and J. Fassler. 1,922,032; Aug. 15.
Crystalline materials, Manufacture of. H. O. Dering. 1,922,383; Aug. 15.
Cultivators. W. Schumann. 1,922,219; Aug. 15.
Current commutator motor, Adjustable speed alternating. J. I. Hull. 1,922,810; Aug. 15.
Current, Device for commutating direct. E. Kern. 1,922,247; Aug. 15.
Curtain fixture. A. F. Nye. 1,922,889; Aug. 15.
Cushion, Ventilated seat. H. Brown. 1,922,228; Aug. 15.
Cutter: *See*—
Glass tube cutter.
Cutter for condenser tubes. W. F. Oberhuber. 1,922,630; Aug. 15.
Cutting mechanism for sheet material. H. R. Schutz and H. B. Robinson. 1,922,641; Aug. 15.
Cyanamid, Preparing. N. Caro, A. R. Frank, and H. H. Franck. 1,922,280; Aug. 15.
Cylinder working tool. E. A. Hall and W. E. Heuer. 1,922,202; Aug. 15.
Dedusting apparatus. H. E. Brelsford. 1,922,075; Aug. 15.
Deflector. J. A. McCrary. 1,922,814; Aug. 15.
Dental appliance. S. Freed. 1,922,238; Aug. 15.
Dental handpiece, Straight. W. J. Terry. 1,922,644; Aug. 15.
Depository for valuables, Burglarproof. J. V. Noccro. 1,922,557; Aug. 15.
Desk, chair, and the like, Folding. A. A. Goodrich. 1,922,582; Aug. 15.
Device for registering and feeding objects to a magazine. S. Evans. 1,922,425; Aug. 15.
Die: *See*—
Drawing die.
Die-casting. L. H. Morin. 1,922,598; Aug. 15.
Die-rolled articles, Reworking of. P. L. Coyle. 1,922,793; Aug. 15.
Die rolling. W. P. Witherow and P. L. Coyle. 1,923,017; Aug. 15.
Die structure. W. J. Schultz. 1,922,110; Aug. 15.
Dies, etc., Method and machine for making wire-drawing. J. E. Peterson and E. A. Van Beke. 1,922,497; Aug. 15.
Dies, Method and machine for making wire-drawing. J. E. Peterson and E. A. Van Beke. 1,922,498; Aug. 15.
Diffuser and ejector, Adjustable. M. A. Aherne. 1,922,920; Aug. 15.
Digester. J. L. Mason. 1,922,547; Aug. 15.
Di-phenyl phenolphthalein, substitution products thereof, and preparing same. S. E. Harris and W. G. Christiansen. 1,922,240; Aug. 15.
Discharge tube. H. Filippo. 1,922,672; Aug. 15.
Discharge unit, High pressure. A. E. Berdon. 1,922,656; Aug. 15.
Discharger for centrifugal extractors, Mechanical. J. J. Neuman. 1,922,629; Aug. 15.
Dispenser: *See*—
Sugar dispenser. Tooth powder dispenser.
Display holder. C. T. Fairbanks. 1,922,476; Aug. 15.
Display rack. C. H. Holleman. 1,922,892; Aug. 15.
Display stand. H. E. Shaw. Des. 90,511; Aug. 15.
Distant control for speed varying devices. M. O. Reeves. 1,923,041; Aug. 15.
Dobby drive. J. G. Bentley and R. A. Gibbs, jr. 1,923,048; Aug. 15.
Door construction. C. G. Johnson and H. C. Blodgett. 1,922,370; Aug. 15.
Door construction, Oven. C. H. and R. F. Hoffstetter. 1,922,587; Aug. 15.
Doorlatch. C. P. Quigley. 1,922,455; Aug. 15.
Doorlatch. H. W. Rightmyer. 1,922,261; Aug. 15.
Door, Railway car metal. H. H. Henricks. 1,922,042; Aug. 15.
Dough for baking, Preparing yeast raised. H. Jung. 1,922,096; Aug. 15.
Dough product. A. Ronsoni. Des. 90,509; Aug. 15.
Draft rigging. D. S. Barrows. 1,923,045–6; Aug. 15.
Draft rigging. B. W. Kadel. 1,922,300; Aug. 15.
Draft rigging, Railway. S. B. Haseltine. 1,922,732; Aug. 15.
Drainage device, Air-excluding and automatic. J. P. Jacobsen. 1,922,048; Aug. 15.
Drapery. F. McGarry. 1,922,170; Aug. 15.
Drawing die. F. Kornbrath. 1,922,770; Aug. 15.
Drill: *See*—
Rock drill.
Drilling machine. V. L. Scott. 1,922,401; Aug. 15.
Drills, Attachment for portable. H. H. Ehlen. 1,922,532; Aug. 15.
Drum weir. B. H. Kersting. 1,922,097; Aug. 15.
Dumb waiter, etc., Electrically driven. B. Henricksen. 1,923,034; Aug. 15.
Dump body construction. R. E. Smith. 1,922,111; Aug. 15.
Dump-body, Self-loading. W. S. Howard. 1,922,851; Aug. 15.
Dust collector. K. F. Juengling and H. A. Berg. 1,922,299; Aug. 15.
Dye diffusion and resulting product, Restraining. L. T. Troland. 1,923,043; Aug. 15.
Dyeing and the dyed materials produced. J. F. Turski. 1,922,463; Aug. 15.
Dyeing apparatus. H. E. Van Ness. 1,922,511; Aug. 15.
Dyeing machine. J. Portnoy. 1,922,859; Aug. 15.
Dyestuff print and closely adjacent thereto aniline black prints on the same fabric, Producing. E. Pfeffer. 1,922,978; Aug. 15.
Easel, Collapsible. H. V. Marsh. 1,922,626; Aug. 15.
Egg preservation. P. F. Sharp. 1,922,143; Aug. 15.
Eggshells, Cooking and drying. C. O. Ryde. 1,922,177; Aug. 15.
Elastic woven fabric. A. A. Gobeille. 1,922,944; Aug. 15.
Electric cell, Primary. R. H. Lapidos. 1,922,483; Aug. 15.
Electric deposition of chromium. H. Kissel. 1,922,853; Aug. 15.
Electric door operator. C. Norton. 1,922,708; Aug. 15.
Electric furnace. R. G. Mansfield. 1,922,312; Aug. 15.
Electric machine, Dynamo. P. I. Chandeysson. 1,922,028; Aug. 15.
Electric motor. L. E. Heinrich. 1,922,806; Aug. 15.
Electric motor. J. Schick. 1,922,824; Aug. 15.
Electric plug connecter. E. C. Raney. 1,922,394; Aug. 15.
Electric protective system for elevators and the like. L. E. King. 1,922,163; Aug. 15.
Electric regulator. A. E. Honey. 1,922,294; Aug. 15.
Electric tool, Portable. L. C. Packer. 1,922,258; Aug. 15.
Electrical apparatus, High frequency. W. J. Brown. 1,922,195; Aug. 15.
Electrical connecter. R. Johnson and C. T. Siebs. 1,922,686; Aug. 15.
Electrical connecter construction. E. V. Sundt and B. Kollath. 1,922,643; Aug. 15.
Electrical connection. W. D. Lindsey. 1,922,544; Aug. 15.
Electrical heating appliance. A. J. Kercher. 1,922,440; Aug. 15.
Electrical leakage in discharge tubes, Reducing. H. Filippo. 1,922,673; Aug. 15.
Electrical lighting outfit, Portable series. L. Barnett. 1,922,022; Aug. 15.
Electrical supply equipment for discharge tubes. L. H. Soundy. 1,922,964; Aug. 15.
Electrical switching apparatus. D. C. Prince. 1,922,862; Aug. 15.
Electrode and making the same. F. L. Hunter, jr. 1,922,244; Aug. 15.
Electrode, Thermionic tube. L. McCulloch. 1,922,254; Aug. 15.

Electronic devices, Evacuation of. A. J. King. 1,922,162; Aug. 15.
Emulsoids from water solutions, Removing. O. M. Urbain. 1,922,464; Aug. 15.
Engine: *See*—
Air cooled combustion engine. — Slide valve engine.
Internal combustion engine. — Super-pressure overhead valve engine.
Rotary engine.
Engine locomotive, High powdered internal combustion. A. Lipets. 1,922,896; Aug. 15.
Engines and pumps, Construction of motive power. H. C. Flind. 1,922,477; Aug. 15.
Envelope, File. C. R. Middleton. 1,022,213; Aug. 15.
Ethers of polyhydric alcohols and their production. O. Schmidt and E. Meyer. 1,922,459; Aug. 15.
Evaporating apparatus. J. Golding. 1,922,914; Aug. 15.
Excavator, Power. W. Ferris. 1,922,285; Aug. 15.
Exercising and amusement device. E. Yoes. 1,922,466; Aug. 15.
Extension table. M. Fox. 1,922,478; Aug. 15.
Extractor: *See*—
Fruit juice extractor.
Extrusion molding press. P. Eckert. 1,922,937; Aug. 15.
Fabric: *See*—
Elastic woven fabric. — Zigzag mesh fabric.
Tinsel fabric.
Fabric. J. Erkes. Des. 90,480; Aug. 15.
Fabric. A. A. Gobeille. 1,922,943; Aug. 15.
Fabric and making the same. W. S. Libbey. 1,922,444; Aug. 15.
Fabric making. R. J. Southwell and T. H. Wickwire, jr. 1,922,270; Aug. 15.
Fabrics, Process and machine for producing knitted. P. W. Bristow and H. E. Houseman. 1,922,119; Aug. 15.
Fan injector. E. L. Anderson. 1,922,070; Aug. 15.
Fastener: *See*—
Bed rail fastener. — Ski fastener.
Hood fastener. — Slide fastener.
Fastener for fire brick and the like. W. J. Gravert. 1,922,945; Aug. 15.
Feeder: *See*—
Poultry feeder. — Sheet feeder.
Feeding mechanism for fruit paring machines. J. W. Pease. 1,922,745; Aug. 15.
Fertilizer. C. B. Dickey. 1,922,909; Aug. 15.
Fertilizer and producing same, Nitrogenous. J. L. Walton. 1,922,562; Aug. 15.
Filaments, threads and the like, Manufacture of artificial. R. H. J. Riley. 1,922,715; Aug. 15.
Filaments, threads and the like, Manufacture of artificial. A. H. Tidmus and F. A. Beeson. 1,922,718; Aug. 15.
Filaments, threads, bands, and the like from viscose, Manufacture and production of. H. J. Hegan and J. H. Taylor. 1,922,952; Aug. 15.
Filaments, threads, etc., Manufacture of. R. Ellener and H. L. Johnson. 1,922,910; Aug. 15.
Filling device for oil reservoirs or the like, Automatic. W. J. Madden. 1,922,725; Aug. 15.
Film coloring machine and method of coloring film. W. T. Crespinel and C. W. Pryane. 1,922,725; Aug. 15.
Filter-aid material, Reconditioning. W. P. Gee. 1,923,021; Aug. 15.
Finishing machine. J. L. Jones. 1,922,184; Aug. 15.
Fireworks. L. L. Driggs, jr. 1,922,081; Aug. 15.
Fish lure and fish lure made thereby, Manufacturing. E. Cooley. 1,922,841; Aug. 15.
Fish rod handle. W. F. Hoerle and E. J. Pardon. 1,923,035; Aug. 15.
Fitting, Current-tapping cap-plug. A. Abramson. 1,922,651; Aug. 15.
Fitting, Ground. S. N. Buchanan. 1,922,077; Aug. 15.
Electric hand flash light. J. L. Shannon. 1,022,332; Aug. 15.
Flask for dental molds. O. T. Birdlebough. 1,922,875; Aug. 15.
Floor construction. T. A. Lucy. 1,922,053; Aug. 15.
Flooring. H. B. Chamberlain. 1,922,472; Aug. 15.
Flower pick. C. A. Knuutila. 1,922,165; Aug. 15.
Flowerpot handle. L. Wolf. 1,922,066; Aug. 15.
Fluid meter. E. W. Ericson. 1,922,423; Aug. 15.
Fluid pressure regulator. R. C. Hughes. 1,922,954; Aug. 15.
Flushing device for well drills. J. A. Herrington. 1,922,436; Aug. 15.
Flux. A. R. Nyquist. 1,922,692; Aug. 15.
Foam stabilizer. G. G. Urquhart and A. C. Jones. 1,922,510; Aug. 15.
Foldable chair. J. Kovats. 1,922,305; Aug. 15.
Food chopping machine. B. Dwofsky. 1,922,761; Aug. 15.
Food, Preparing poultry. K. Yamamoto. 1,922,919; Aug. 15.
Form, Concrete. J. N. Heltzel. 1,922,584; Aug. 15.
Form, Necktie knot tying and retaining. A. D. P. Jouffray. 1,922,956; Aug. 15.
Form, Shoe. B. F. Horsting. 1,922,367; Aug. 15.
Forming mill. J. Lucas. 1,922,380; Aug. 15.
Forming press. E. Wiedmann. 1,922,513; Aug. 15.
Fount and feeder, Chick. H. J. Barker. 1,922,612; Aug. 15.
Fragile objects to machines, Mechanism for feeding. H. M. Smitt. 1,922,717; Aug. 15.
Frame: *See*—
Picture frame. — Window frame.
Freezer, Ice cream. S. Sheriff and H. J. Hitzfeldt. 1,922,784; Aug. 15.
Friction clutch. E. V. J. Tower. 1,922,645; Aug. 15.
Friction clutch, Automatic. A. Bolton. 1,922,350; Aug. 15.
Friction gripping device. C. L. C. Magee and B. S. and R. S. Pfeiffer. 1,922,054; Aug. 15.
Friction hinge. L. E. Heasley. 1,922,365; Aug. 15.
Fruit cutting and juice extracting machine. E. Nordstrom. 1,922,818; Aug. 15.
Fruit juice extractor. J. L. Maull. 1,922,773; Aug. 15.
Frying and cooking apparatus. W. L. Goodman. 1,922,035; Aug. 15.
Fuel igniting means and method. W. C. Dehn. 1,922,667; Aug. 15.
Fuel, Producing a prepared. B. F. J. Odell. 1,922,891; Aug. 15.
Furnace: *See*—
Electric furnace. — Metallurgical furnace.
Furnace. L. W. Daman. 1,922,421; Aug. 15.
Furnace construction. J. E. Anderson. 1,922,516; Aug. 15.
Furnace jacket. E. Bullock. Des. 90,474; Aug. 15.
Furnace wall construction. J. S. Bennett. 1,922,521; Aug. 15.
Furnaces, Method of and apparatus for feeding melting. E. C. Stewart. 1,922,827; Aug. 15.
Fuse construction. E. E. Sundt. 1,922,642; Aug. 15.
Fuse holder. C. G. Pierce. 1,922,500; Aug. 15.
Fuse plug. R. H. Olandt. 1,922,820; Aug. 15.
Game. L. J. Burke. 1,922,229; Aug. 15.
Game. H. J. Fernandes. 1,922,578; Aug. 15.
Game, Football. J. J. Warren. 1,922,904; Aug. 15.
Garment. D. Reichenbaum. 1,922,638; Aug. 15.
Garment hanger. F. Hille. 1,922,161; Aug. 15.
Garment hanger. E. H. Page. 1,922,858; Aug. 15.
Garment press. J. C. Ledbetter. 1,922,052; Aug. 15.
Garter, Reversible. G. A. Piepenbring and W. Beutel. 1,922,604; Aug. 15.
Garters. M. F. Ascher. 1,922,413; Aug. 15.
Gas absorbent. D. J. Block. 1,922,416; Aug. 15.
Gas analysis, Apparatus for. I. Fagelston. 1,922,939; Aug. 15.
Gas burner. A. W. Morse. 1,922,628; Aug. 15.
Gas keeper. J. M. G. Darms. 1,922,930; Aug. 15.
Gas measuring process and apparatus. H. A. Daynes. 1,922,666; Aug. 15.
Gaseous conduction devices, Manufacture of. F. L. Hunter, jr. 1,922,245; Aug. 15.
Gate hoisting system. H. Tengström. 1,922,829; Aug. 15.
Gauge: *See*—
Liquid recording gauge. — Micrometer depth gauge.
Magnetic fluid gauge.
Gauge. P. H. Hutchinson. 1,922,098; Aug. 15.
Gauging instrument for vehicle wheels. W. Bagge. 1,922,344; Aug. 15.
Gear: *See*—
Transmission gear.
Gear transmission, Variable speed. A. L. Ellis and D. R. Francis. 1,922,887; Aug. 15.
Gear wheel. F. W. Kennedy. 1,922,812; Aug. 15.
Gears, Method of and machine for producing. A. H. Candee. 1,922,756; Aug. 15.
Gears, Producing. A. H. Candee. 1,922,757; Aug. 15.
Generator: *See*—
Acetylene generator. — Steam generator.
Hydroelectric power generator. — Vapor generator.
Glass, Apparatus for producing sheet. J. A. Reece. 1,922,637; Aug. 15.
Glass apparatus, Sheet. J. H. Redshaw. 1,922,327; Aug. 15.
Glass, Making laminated. J. W. Kamerer and E. L. Fix. 1,922,893; Aug. 15.
Glass photomechanically, Indexing. K. Gundlach. 1,922,434; Aug. 15.
Glass polishing block, Plate. J. H. Fox. 1,922,912; Aug. 15.
Glass rolling apparatus. W. G. Koupal. 1,922,894; Aug. 15.
Glass tube cutter. E. H. Fahrney. 1,922,426; Aug. 15.
Glove, Handball. H. R. Jones. 1,922,095; Aug. 15.
Gloves, Making imitation pigskin. S. M. Straus. 1,922,507; Aug. 15.
Glow lamp. T. W. Case. 1,923,051; Aug. 15.
Gluing and sealing machine for shipping cases. H. G. Allen and F. W. Kucklinsky. 1,922,412; Aug. 15.
Goblet or similar article. E. M. Bottome. Des. 90,471; Aug. 15.
Golf apparatus. R. E. Adams. 1,922,021; Aug. 15.
Golf course, Advertising. J. F. Shawl. 1,922,333; Aug. 15.
Golf, Device for practicing. C. H. Johnson. 1,922,735; Aug. 15.
Golfer's stance appliance. O. P. Haserodt. 1,922,130; Aug. 15.
Governor, Compressor. C. C. Farmer. 1,922,911; Aug. 15.
Governor trip, Pressure actuated. R. C. McAllister. 1,922,705; Aug. 15.
Grader blade. C. A. Russell and C. M. Walker. 1,922,917; Aug. 15.

Grader, Road. F. L. Carswell and O. W. Schmidt. 1,922,880; Aug. 15.
Grater. S. A. Mischanski. 1,922,973; Aug. 15.
Grinding machine. W. K. Morton. 1,922,817; Aug. 15.
Guard, Highway. C. H. Macdonald. 1,922,445; Aug. 15.
Guard or shield. E. J. Brittain, jr. 1,922,076; Aug. 15.
Guide for a labeling machine, Overhead bottle. J. O. Fenner. 1,922,576; Aug. 15.
Guide for cutting torches. A. F. Day. 1,922,529; Aug. 15.
Guide for rolling mills. A. Harris. 1,922,803; Aug. 15.
Guide for stitching machines. E. Abo. 1,922,906; Aug. 15.
Gun, Grease. E. L. Carson and W. Bowermaster. 1,922,277; Aug. 15.
Gun sight, Rear. D. W. King. 1,922,302; Aug. 15.
Hair curler. K. G. Ströher. 1,923,061; Aug. 15.
Halogen derivatives of dibenzopyrene quinones, Production of. M. A. Kuns, K. Koeberle, and E. Berthold. 1,922,481; Aug. 15.
Halogendibenzopyrenequinones. M. A. Kuns, K. Koeberle, and E. Berthold. 1,922,482; Aug. 15.
Hammer. B. B. Gevert. 1,922,890; Aug. 15.
Handle: *See*—
Basket handle. — Flowerpot handle.
Fish rod handle.
Hanger: *See*—
Garment hanger.
Harrow and weeder, Revolving. W. Todoruk and H. Chornoby. 1,922,873; Aug. 15.
Hatch cover. B. H. Yoder. 1,922,067; Aug. 15.
Hauling device. G. E. Nichols. 1,922,776; Aug. 15.
Head for forming rolled and extruded metal articles. T. M. Hiester. 1,922,087; Aug. 15.
Headlight. A. Touchman. 1,922,787; Aug. 15.
Hearse. W. T. Jacobs. 1,922,094; Aug. 15.
Heat exchange apparatus. P. T. Kratsmaier. 1,922,443; Aug. 15.
Heat exchange device. O. A. Bossart. 1,922,838; Aug. 15.
Heat exchange device. J. E. Ellsworth and J. H. Ellsworth. 1,922,534; Aug. 15.
Heat exchange device. J. Epstein. 1,922,844; Aug. 15.
Heat exchange device. O. S. Pedersen. 1,922,173; Aug. 15.
Heater: *See*—
Unit heater. — Water heater.
Heater for internal combustion engines, Oil and water. J. J. Beresh. 1,922,150; Aug. 15.
Heater for motor vehicles, Windshield. H. S. Hougium. 1,922,133; Aug. 15.
Heating and cooling device for automobiles, Combination. L. F. Wetherall. 1,922,788; Aug. 15.
Heating and ventilating apparatus. D. Sprague. 1,922,220; Aug. 15.
Heating by circulating heat-transferring liquids. R. Thurm. 1,922,509; Aug. 15.
Heating unit, Electric. L. V. Lucia. 1,922,546; Aug. 15.
Heddle frame construction. I. Andrews. 1,922,922; Aug. 15.
Hedge, Christmas garden. A. B. Scheibner. 1,922,398; Aug. 15.
Heel, Ornamental. C. and M. Miller. 1,922,058; Aug. 15.
Helicoplane and airplane. J. L. Leray. 1,922,167; Aug. 15.
Hemstitching machines, Thread-removing mechanism for. V. J. Sigoda. 1,922,334; Aug. 15.
High tension switch. G. L. Carlisle. 1,922,276; Aug. 15.
Hinge: *See*—
Friction hinge.
Hinge. O. C. White. 1,922,753; Aug. 15.
Hoisting machine. R. C. Post. 1,922,635; Aug. 15.
Holder: *See*—
Automobile license tag holder. — Fuse holder.
Bag holder. — Shade and curtain holder.
Bait holder. — Tool and kit holder.
Display holder. — Torch holder.
Holder for bricks or the like. W. P. Sullivan. 1,922,560; Aug. 15.
Holder for pretzels or the like. F. J. Coyle. Des. 90,478; Aug. 15.
Holder for tags, etc. L. N. Plante. 1,922,900; Aug. 15.
Homogenizer. G. J. Musgrove. 1,922,974; Aug. 15.
Hood fastener. M. F. C. Heitman. 1,922,242; Aug. 15.
Horn, Signal. F. M. Robb. 1,922,397; Aug. 15.
Hose coupling. J. L. Martin. 1,922,968; Aug. 15.
Hot box arrester. A. M. Krause and J. J. Rounds. 1,922,306; Aug. 15.
Hub and brake drum assembly for vehicle wheels. F. R. Carr. 1,922,568; Aug. 15.
Humidifying unit with tube. G. R. Mazney. 1,922,704; Aug. 15.
Hydraulic installation. A. Pfau. 1,922,828; Aug. 15.
Hydrocarbons of high boiling point into those of low boiling point, Conversion of. A. Mittasch, G. Stern, and E. Galle. 1,922,491; Aug. 15.
Hydrocarbons, Process and apparatus for treating. A. D. Smith. 1,923,016; Aug. 15.
Hydroelectric power generator. K. F. Marx. 1,922,055; Aug. 15.
Hydrogen sulphide from natural gas, Removing. A. P. Thompson. 1,922,872; Aug. 15.
Ice cream shipping bag. R. McKee. 1,922,485; Aug. 15.
Ignition control lock. C. N. Fairchild. 1,922,574; Aug. 15.
Ignition device. L. Beeh and W. E. Schwarsmann. 1,922,655; Aug. 15.
Ignition device, Starting. M. Rail. 1,922,779; Aug. 15.
Index and memo, Telephone. F. Adler. 1,922,611; Aug. 15.
Indexing device for welders. S. Evans. 1,922,424; Aug. 15.
Indicator for vehicles, Direction. T. E. Drewry. 1,922,796; Aug. 15.
Infusion device and the like. C. A. Schallis. 1,922,782; Aug. 15.
Inking mechanism for printing apparatus. H. P. Elliott. 1,922,533; Aug. 15.
Insecticide. W. Seits. 1,923,004; Aug. 15.
Insecticide carrier, spreader, and emulsifier, and making same. W. H. Volck. 1,922,607; Aug. 15.
Inspection device. V. K. Zworykin. 1,922,188; Aug. 15.
Insulation in electric discharge tubes. J. G. W. Mulder. 1,922,674; Aug. 15.
Internal combustion engine Multicylinder. J. A. H. Barkelj. 1,923,018; Aug. 15.
Inulin nitrate and method of producing. W. De C. Crater. 1,922,123; Aug. 15.
Iodine from natural waters and the like. Extracting. L. C. Chamberlain. 1,922,693; Aug. 15.
Jack: *See*—
Automobile jack. — Vehicle jack.
Shoe jack.
Jar. F. Smith. Des. 90,512; Aug. 15.
Joint: *See*—
Trimming joint.
Journal box lid. J. L. Mohun. 1,922,597; Aug. 15.
Key case. W. R. Buxton. 1,922,755; Aug. 15.
Keys and the articles, Attaching. H. Hermani. 1,922,916; Aug. 15.
Knife oscillating device. E. B. Kerst and A. O. Hurxthal. 1,922,959; Aug. 15.
Knitting machine, Circular. A. E. Page. 1,922,977; Aug. 15.
Label. T. P. Adair. 1,922,565; Aug. 15.
Label follower mechanism. J. O. Fenner. 1,922,575; Aug. 15.
Laminated box. J. S. Stokes. 1,922,506; Aug. 15.
Lamp: *See*—
Arc lamp. — Glow lamp.
Battery hand lamp.
Lamp construction, Gas. J. O. Cadieux. 1,922,524; Aug. 15.
Lamp for producing ultra-violet radiation. L. H. Dawson. 1,922,281; Aug. 15.
Lamp shade bracket. L. W. Andersen. 1,922,754; Aug. 15.
Larynx, Artificial. E. I. McKesson. 1,922,385; Aug. 15.
Legging protector. H. C. Nilsen. 1,922,172; Aug. 15.
Lens adjustment in double lens projection, Apparatus for. G. Lane and J. E. Patterson. 1,922,963; Aug. 15.
Lens, Catadioptric. J. B. Dickson. 1,922,618; Aug. 15.
Level and gauge, Combination. H. L. Widner. 1,922,997; Aug. 15.
Lifter: *See*—
Valve lifter.
Lifting device. M. K. McCosh. 1,922,553–4; Aug. 15.
Lifting device and supporting device. M. K. McCosh. 1,922,555; Aug. 15.
Light: *See*—
Electric hand flash light.
Lighting, Emergency. E. C. Dixon. 1,922,079; Aug. 15.
Liming device, Automatic continuous. E. C. Zitkowski. 1,922,411; Aug. 15.
Liner, Tunnel. R. V. Proctor. 1,923,006–8; Aug. 15.
Liquid container. A. S. Johnson. 1,922,297; Aug. 15.
Liquid dispensing machine. F. D. Chapman. 1,922,356; Aug. 15.
Liquid fuel and gas burner, Combined. H. Meachem. 1,922,857; Aug. 15.
Liquid, in particular aromatic, hydrocarbons, Production of. F. Winkler, H. Haeuber, and P. Feller. 1,922,918; Aug. 15.
Liquid matte, Treating. T. M. Kekich. 1,922,301; Aug. 15.
Liquid meter. R. S. Bassett. 1,922,071; Aug. 15.
Liquid recording gauge. H. N. Halversen. 1,922,362; Aug. 15.
Load handling apparatus. F. Kinsbach. 1,922,303; Aug. 15.
Loading apparatus for proofers. F. Marasso. 1,922,856; Aug. 15.
Lock: *See*—
Ignition control lock. — Portable lock.
Lock. M. Falk. 1,922,889; Aug. 15.
Lock. J. Hines. 1,922,043; Aug. 15.
Lock. J. C. Mahindra. 1,922,897; Aug. 15.
Lock. F. J. Sullivan. 1,922,062; Aug. 15.
Lock and latch. N. B. Hurd. 1,922,438; Aug. 15.
Lock controller. H. E. Norviel. 1,922,449; Aug. 15.
Lock for limiting the opening distance of window sashes, Window. J. Jones. 1,922,298; Aug. 15.
Locking device for swiveling casing hooks. B. S. Minor. 1,922,386; Aug. 15.
Locking device for thread clearers. S. Hyslop. 1,922,684; Aug. 15.
Loud speaker. A. A. Thomas. 1,922,181; Aug. 15.
Lounging chair. V. A. McChesney and F. A. Milnes. Des. 90,495; Aug. 15.

Lubricant dispensing device. J. J. Pelouch and P. I. Schultz. 1,922,109; Aug. 15.
Luminair. T. W. Rolph. 1,922,331; Aug. 15.
Luminous sign. W. W. Lillard. 1,922,309; Aug. 15.
Machine for darning faulty places in plush and like fabrics. K. Heidel. 1,922,131; Aug. 15.
Machine for molding and pressing bricks or blocks. C. M. Eberling. 1,922,474; Aug. 15.
Machine for notching statistical cards. I. G. Rumfelt. 1,922,869; Aug. 15.
Machine for operating on plastic materials. J. W. West. 1,922,563; Aug. 15.
Machine for removing and sifting ashes. G. J. Streib. 1,922,223; Aug. 15.
Machine for uniting looped fabrics. G. Vagler. 1,923,005; Aug. 15.
Machine tool. A. M. Johnson. 1,922,246; Aug. 15.
Machine tool. J. E. Thiermann. 1,922,751; Aug. 15.
Magnet, Permanent. F. H. Batt. 1,923,047; Aug. 15.
Magnetic fluid gauge. A. Briggs. 1,922,273; Aug. 15.
Mainspring for watches, clocks, etc. A. J. Anderson. 1,922,921; Aug. 15.
Manifolding. A. A. Johnson. 1,922,296; Aug. 15.
Manifolding machine. M. C. Stern and F. E. Pfeiffer. 1,922,114; Aug. 15.
Manometer, Direct reading. M. O. Jensen. 1,922,049; Aug. 15.
Marker, construction form, and screed, Street. J. J. Tranchell. 1,922,462; Aug. 15.
Mat, Automobile. R. H. Schwarts. Des. 90,510; Aug. 15.
Material handling apparatus. E. G. Robinson. 1,922,330; Aug. 15.
Material, Handling excavated. L. A. Miller. 1,922,972; Aug. 15.
Material handling system. H. R. Crago. 1,922,883; Aug. 15.
Material, Process and apparatus for disintegration of. W. H. Mason. 1,922,313; Aug. 15.
Materials, Method and apparatus for handling. F. S. Miller and J. Farrington. 1,923,009; Aug. 15.
Matrix. J. A. De Geyar. 1,922,031; Aug. 15.
Mattress or cushion, Air. L. Rechtschaffen. 1,922,979; Aug. 15.
Mattress tufting machine. W. B. Mathewson. 1,922,211; Aug. 15.
Mattresses, Tufting. W. B. Mathewson. 1,922,212; Aug. 15.
Measuring apparatus. R. P. Brown and T. R. Harrison. 1,922,194; Aug. 15.
Measuring instrument. W. P. Muther. 1,922,107; Aug. 15.
Measuring method. R. Dirks. 1,922,933; Aug. 15.
Medication, Apparatus for the automatic administration of. C. C. Francis and E. J. Sears. 1,922,941; Aug. 15.
Members on shafts, Keying. M. T. Chamberlain. 1,922,929; Aug. 15.
Merry-go-round. F. F. Smith. 1,922,983; Aug. 15.
Metal deposition and product thereof. J. B. Grenagle. 1,922,847; Aug. 15.
Metal, Mechanism for extruding and rolling. T. M. Hiester. 1,922,088; Aug. 15.
Metal ribbon machine. E. A. Dewald. 1,922,531; Aug. 15.
Metal, Stainless. C. Hardy. 1,922,038; Aug. 15.
Metal wheel. G. Walther. 1,923,028; Aug. 15.
Metal-working implement. W. J. Schults. 1,922,178; Aug. 15.
Metallurgical furnace. E. H. Bunce and A. O. Ashman. 1,922,274; Aug. 15.
Metals from ores, Separation of. E. B. Miller and G. C. Connolly. 1,922,490; Aug. 15.
Metals, such as gold, platinum, and the like from ore bodies, Recovery of precious. V. C. J. Nightingall. 1,922,975; Aug. 15.
Metals, Treating. H. R. Lowatuter. 1,923,058; Aug. 15.
Metals, Treatment of. C. Hardy. 1,922,037; Aug. 15.
Meter: *See*—
Fluid meter. Liquid meter.
Meter recording mechanism. C. L. McMullen. 1,922,056; Aug. 15.
Meters, Mechanism for dry gas. G. Kuwada. 1,922,166; Aug. 15.
Micrometer depth gauge. K. Christopherson. 1,922,758; Aug. 15.
Microscope light. G. Spindler. Des. 90,513; Aug. 15.
Mill: *See*—
Forming mill.
Milling machine. A. F. Bennett. 1,922,073; Aug. 15.
Mining machine. M. P. Holmes. 1,922,293; Aug. 15.
Mixer: *See*—
Automatic mill mixer. Concrete mixer.
Modulating device. R. S. Bair and J. B. Bishop. 1,922,654; Aug. 15.
Molded Block. P. Maul and M. Hoffman. 1,922,774; Aug. 15.
Molding apparatus. J. W. Lowell. 1,922,168; Aug. 15.
Monocoque body. S. I. Vaughn. 1,922,063; Aug. 15.
Monument. G. Ritter. 1,922,218; Aug. 15.
Mop. E. W. and A. E. Byars. 1,922,657; Aug. 15.
Mop. H. Hertzberg. 1,922,621; Aug. 15.
Mop Wringer. E. W. Byars. 1,922,658; Aug. 15.
Motion picture screen. A. L. Raven. 1,922,636; Aug. 15.
Motion resisting device, Lateral. J. G. Blunt. 1,922,876; Aug. 15.
Motor: *See*—
Electric motor.
Motor and control system therefor, Single-phase series railway. H. G. Jungk. 1,922,737; Aug. 15.
Motor control system. S. H. Cowin and L. J. Hibbard. 1,922,724; Aug. 15.
Motor drilling structure, Advancing. H. D. Sandstone. 1,923,015; Aug. 15.
Motor drive, Plural. W. DeVries. 1,922,885; Aug. 15.
Motors, Laminated field assembly for electric. L. M. Persons. 1,922,216; Aug. 15.
Mount for projecting lenses, Adjustable. W. F. Fouquet. 1,922,537; Aug. 15.
Mower, Hand. C. T. Felts. 1,922,126; Aug. 15.
Mower, Power propelled. S. P. Eckberg. 1,922,284; Aug. 15.
Muffler for internal combustion engines, Exhaust. B. G. Harley. 1,922,848; Aug. 15.
Multiplication device. G. Mes. 1,922,971; Aug. 15.
Musical instrument, Stringed. W. A. Bowman. Des. 90,472; Aug. 15.
Nipple everter. H. Grotte. 1,922,947; Aug. 15.
Nitro-compounds, Manufacturing. J. F. O'Brien. 1,922,709; Aug. 15.
Nozzle. C. C. Armstrong. 1,922 519; Aug. 15.
Nozzle. R. P. Paradise. 1,922,259; Aug. 15.
Number plate, letter drop opening, and signal push button, Combination illuminated house. A. Fasekas. Des. 90,481; Aug. 15.
Nursing bottle support. V. F. Hoobler. Des. 90,488; Aug. 15.
Nut cracker. R. E. DeGoyler. 1,922,884; Aug. 15.
Nut cracker. F. E. Wood. 1,922,515; Aug. 15.
Nut, Lock. A. L. Linderman. 1,922,378; Aug. 15.
Office building, Tourist camp. C. J. Greene. Des. 90,485; Aug. 15.
Oil from animal tissue and the lipoid substances by papain digestion, Extracting. L. W. Mapson, J. T. MacCurdy, and H. O. Nolan. 1,922,484; Aug. 15.
Oil wells, Increasing the output of. M. De Groote. 1,922,154; Aug. 15.
Oiling device. W. K. Newcomb. 1,922,707; Aug. 15.
Oiling system. H. G. Keeple. 1,922,589; Aug. 15.
Oils and grease from oil laden water and the like, Apparatus for the removal and recovery. A. B. Ridley. 1,922,714; Aug. 15.
Oils, Cracking hydrocarbon. W. B. D. Penniman. 1,922,322; Aug. 15.
Oils, Improving the quality of transformer. T. E. Layng and M. A. Youker. 1 922,103; Aug. 15.
Ophthalmic mounting. S. Hurwitz. 1,922,766; Aug. 15.
Outlet box. H. V. Gould. 1,922,432; Aug. 15.
Oven, Broiler. C. H. and R. F. Hoffstetter. 1,922,585; Aug. 15.
Package. M. Knorpp. 1,922,208; Aug. 15.
Package holder for dyeing machines. H. V. Underwood. 1,922,408; Aug. 15.
Packaging machine. A. C. Everett. 1,922 762; Aug. 15.
Packer, Releasable oil well. J. H. Howard. 1,922,044; Aug. 15.
Packing and shipping device. S. R. Koons. 1,922,590; Aug. 15.
Pail silencer. J. R. Foley. 1,922,127; Aug. 15.
Paper box. L. L. Dodge. 1,923,053; Aug. 15.
Paper, Manufacture of. H. E. Rafton. 1,922,325; Aug. 15.
Paper, Photographic. E. P. Essley. 1,922,670; Aug. 15.
Paper roll, Expanding a flattened. R. A. Robinett 1,922,716; Aug. 15.
Paraffin, Apparatus for treating. L. H. Macomber 1,922,382; Aug. 15.
Parquet flooring. A. B. Birtles. 1,922,468; Aug. 15.
Partition construction. C. T. Hansen. 1,922,694; Aug. 15.
Pattern effects upon textile fabrics or other materials, Production of. G. H. Ellis. 1,922,727; Aug. 15.
Pattern effects upon textile fabrics or other materials, Production of. G. H. Ellis and W. B. Miller. 1,922,728; Aug. 15.
Pelt stretcher. S. J. Falley. 1,922 671; Aug. 15.
Pen, Fountain. G. S. Vivian. 1,922,831; Aug. 15.
Pen support, Fountain. L. Griffith. 1,922,891; Aug. 15.
Pencils and the like, Apparatus for molding. C. E. Daniel. 1,922,527; Aug. 15.
Perforating machine. H. G. Kelly. 1,922,248; Aug. 15.
Petroleum hydrocarbons, Treating. A. G. Davis. 1,922,528; Aug. 15.
Phenols, Sulphurised. A. Bergoldt and F. Ballauf. 1,922,467; Aug. 15.
Phenyl phenols, Manufacture of. W. J. Hale. 1,922,695; Aug. 15.
Phonograph. J. A. Cameron. 1,922,231; Aug. 15.
Photo-tube. E. D. Wilson. 1,922,185; Aug. 15.
Piano. F. P. Dell and W. Freeman. 1,922,530; Aug. 15.
Piano, Combination vocal. A. Fuschl. 1,922,239; Aug. 15.
Picture change-over and cut-off device, Motion. C. Thilde. 1,923,042; Aug. 15.
Picture frame. C. Brecht. 1,922,567; Aug. 15.
Picture projecting machine, Motion. M. Berkowitz. 1,922,349; Aug. 15.
Pictures, Manufacture of photographic. C. Roehrich. 1,922,982; Aug. 15.

Pile fabrics, Weaving tuft. F. Darienso. 1,923,030; Aug. 15.
Pilot and burner control apparatus. F. A. Ganger, R. W. Johnson, and A. Neuser. 1,922,201; Aug. 15.
Pin: *See*—
Crank pin.
Pipe, Apparatus for end-to-end welding of. J. W. Free and E. Anderson. 1,922,913; Aug. 15.
Pipe tongs. J. C. Green. 1,922,128; Aug. 15.
Pipe wrench. L. E. Peck. 1,922,496; Aug. 15.
Piston for double acting internal combustion engines. G. Pielstick. 1,922,393; Aug. 15.
Piston ring spreader. C. E. Johnson. 1,922,869; Aug. 15.
Plastic masses, petrifying after the setting, Producing. H. R. S. De La Roche. 1,922,473; Aug. 15.
Plow. C. G. Strandlund and S. M. Madill. 1,922,222; Aug. 15.
Plug: *See*—
Attachment plug. Spark plug.
Fuse plug.
Plug closure. W. H. Armacost and R. M. Swarts. 1,922,835; Aug. 15.
Plug for steam boilers, Fusible. L. D. Lovekin. 1,922,625; Aug. 15.
Plug valve. F. A. Browne. 1,922,840; Aug. 15.
Plumbing device. E. G. Watrous. 1,922,647; Aug. 15.
Plunger for vehicle lifts. L. C. Stukenborg. 1,922,406; Aug. 15.
Pocket for bathing and sporting garments. P. N. Madsen. 1,922,855; Aug. 15.
Pocket receptacle, Flexible. W. B. Buxton. Des. 90,475; Aug. 15.
Polishing and brushing device, Shoe. J. H. Minor. 1,922,256; Aug. 15.
Portable lock. L. H. Morse and T. F. Smith. 1,923,025; Aug. 15.
Portable power pump, Compact. E. W. Himberger. 1,922,427; Aug. 15.
Posture regulating chair. L. W. Conant. 1,922,418; Aug. 15.
Potassium chloride into potassium sulphate, Converting. A. Hoix. 1,922,682; Aug. 15.
Pothead. A. G. Steinmayer. 1,922,836; Aug. 15.
Poultry feeder. R. Harris. 1,922,435; Aug. 15.
Poultry, Preventing cannabilism among. L. I. Fox. 1,922,157; Aug. 15.
Power driven swiveled wheel. H. T. Lambert. 1,922,962; Aug. 15.
Power transmission. P. J. Christman. 1,922,660; Aug. 15.
Press: *See*—
Extrusion molding press. Garment press.
Forming press. Printing press.
Pressure applying mechanism. F. H. Dunbar. 1,922,886; Aug. 15.
Pressure control device. C. M. Cave, jr. 1,922,928; Aug. 15.
Pressure measuring device. J. C. Albright. 1,922,834; Aug. 15.
Pressure recording device, Absolute. V. M. Chatfield. 1,922,882; Aug. 15.
Printing machine for sensitised material. H. H. Sullivan. 1,922,461; Aug. 15.
Printing, Method and apparatus for preventing offset in. T. E. Knowlton. 1,922,872; Aug. 15.
Printing press. P. E. Jackson. 1,922,439; Aug. 15.
Prints by contact on gauffered films, Continuous process and device for reproducing. R. Berthon. 1,922,615; Aug. 15.
Propeller. R. R. Holmes and T. M. Shelton. 1,923,054; Aug. 15.
Propeller. J. Squires. 1,922,179; Aug. 15.
Propelling and steering water or air ships. W. Voith. 1,922,606; Aug. 15.
Protective device for chlorinating apparatus. J. C. Baker. 1,923,044; Aug. 15.
Protective device for electric induction furnaces. T. A. Feehan. 1,922,034; Aug. 15.
Protective device for induction furnace. F. T. Chesnut. 1,923,020; Aug. 15.
Protector: *See*—
Legging protector.
Protector for foods. T. Tighe, jr. 1,922,992; Aug. 15.
Pruning tool. R. C. Botsford. 1,922,877; Aug. 15.
Pump: *See*—
Portable power pump. Rodless pump.
Reciprocating pump. Rotary pump.
Pump. R. S. Butler. 1,922,196; Aug. 15.
Pump. H. E. La Bour. 1,922,060; Aug. 15.
Pump. H. A. Weichhart. 1,922,721; Aug. 15.
Pump for Diesel and other like forms of self-ignition engines employing airless or "solid" injection of liquid uel substances. Fuel injecting. J. C. Groff. 1,922,538; Aug. 15.
Pump for internal combustion engines of the airless fuel injection type, Fuel supplying. J. C. Groff. 1,922,539; Aug. 15.
Pump for multiple-cylinder two-stroke combustion engines or compressors, Charging. W. Steiger. 1,922,985; Aug. 15.
Pump machine, Rotary. G. E. T. Nyston. 1,922,797; Aug. 15.
Pump plunger, Well. J. W. Pippin. 1,923,040; Aug. 15.
Punch. C. T. Bradshaw. 1,922,614; Aug. 15.
Pyroxylin composition containing derivatives of ethylene glycol. R. H. Van Schaack, jr., and R. Calver. 1,922,646; Aug. 15.
Rack: *See*—
Display rack. Ticket rack.
Rack. L. O. Taylor. Des. 90,515; Aug. 15.
Radiator and filter therefor. J. Rendelman and W. Holstrum. 1,922,863; Aug. 15.
Radiator cover, Sectional. O. Nusser. 1,922,603; Aug. 15.
Radiator for motor vehicles. F. C. Ruppel. 1,922,901; Aug. 15.
Radio and space radio receiving system, Combined wired. A. H. Hotopp, jr. 1,922,045; Aug. 15.
Radio—apparatus, Electrical—including. M. Bank. 1,922,415; Aug. 15.
Radio communication system, Two-way. R. C. Mathes. 1,922,627; Aug. 15.
Radio direction finding system. J. W. Greig and A. B. Bailey. 1,922,677; Aug. 15.
Radio receiving apparatus. C. D. Ehret. 1,922,155; Aug. 15.
Radio receiving system. R. S. Ohl. 1,922,059; Aug. 15.
Radio receiving system, Wired. A. H. Hotopp, jr. 1,922,623; Aug. 15.
Radiograph marking means and making the same. H. S. Sawford. 1,922,822; Aug. 15.
Radiographic apparatus. J. R. Kelley. 1,922,780; Aug. 15.
Radiographs, Marking. H. S. Sawford. 1,922,823; Aug. 15.
Radioreceiver. C. M. Daly. 1,922,279; Aug. 15.
Rail bond and connecting plate, Combination. V. L. Martin. 1,922,105; Aug. 15.
Railway draft rigging. H. J. Lounsbury. 1,922,703; Aug. 15.
Railways, Apparatus for the leveling of. M. H. Lemaire. 1,922,895; Aug. 15.
Raising and lowering device. G. D. Parker. 1,923,012; Aug. 15.
Range, Gas. C. H. and R. F. Hoffstetter. 1,922,586; Aug. 15.
Ratio of variable quantities, Apparatus for computing and indicating the. G. A. and A. F. Julius. 1,922,957; Aug. 15.
Razor, Automatic safety. A. Baudis. 1,922,072; Aug. 15.
Receiver and regenerator unit for refrigerating plants, Combination. N. H. Gay. 1,922,942; Aug. 15.
Reciprocating pump. C. Brown. 1,922,121; Aug. 15.
Record sheet. C. L. Johnston and M. M. Cohn. 1,922,736; Aug. 15.
Reenforcement for a water bucket mop wringing device. C. Hufford. 1,922,733; Aug. 15.
Refrigerating. B. F. Randel. 1,922,217; Aug. 15.
Refrigerating apparatus. H. B. Hull. 1,922,091; Aug. 15.
Refrigerating apparatus. J. G. King. 1,922,100–1; Aug. 15.
Refrigerating apparatus. E. B. Newill. 1,922,899; Aug. 15.
Refrigerating apparatus. M. C. Terry. 1,922,508; Aug. 15.
Refrigerating method and apparatus. B. F. Randel. 1,922,712; Aug. 15.
Refrigeration. W. T. Hedlund. 1,922,203; Aug. 15.
Refrigeration. B. B. Holmes. 1,922,182; Aug. 15.
Refrigeration. B. F. Randel. 1,922,713; Aug. 15.
Refrigerator. E. L. Powell. 1,922,456; Aug. 15.
Refrigerator, Bottle. C. A. Frick. 1,923,033; Aug. 15.
Refrigerator, Bottle. C. A. Frick and R. E. Baker. 1,923,032; Aug. 15.
Regulator: *See*—
Electric regulator. Fluid pressure regulator.
Regulating apparatus. C. F. Wagner. 1,922,182; Aug. 15.
Relay. H. C. Doane. 1,922,422; Aug. 15.
Relay, Slow acting. M. H. Hovey. 1,922,089; Aug. 15.
Release valve, Automatic air brake. S. Bogut. 1,922,417; Aug. 15.
Remote control system. A. P. Davis. 1,922,759; Aug. 15.
Remote controlling plant. O. Ortner, G. Münsterer, W. Gebhardt, and K. Keller. 1,922,711; Aug. 15.
Reserving preparation and reserve dyeing process, New. G. Torinus. 1,922,993; Aug. 15.
Reservoir and support therefor, Combination liquid fuel. W. T. Bradbury. Des. 90,478; Aug. 15.
Resin and making, Synthetic. C. C. Moore and E. H. Drake. 1,922,743; Aug. 15.
Resinous complexes or composite of the urea aldehyde condensation type and their solutions. B. N. Lougovoy. 1,922,690; Aug. 15.
Resistance material. M. Steenbeck and R. G. Berthold. 1,922,221; Aug. 15.
Respiration baths, Process and apparatus for preparing. F. Nenguring. 1,922,488; Aug. 15.
Restraining device. E. A. Hags. 1,923,001; Aug. 15.
Ring for attaching articles to clothing. I. G. Lippstadt. 1,922,594; Aug. 15.
Road guard mounting. R. B. Boyle. 1,922,878; Aug. 15.
Rock drill. L. L. Richardson. 1,922,529; Aug. 15.
Rock drill. K. Strobel. 1,922,559; Aug. 15.
Rod Connecter. A. B. Wright. 1,922,564; Aug. 15.
Rodless pump. J. M. Shimer. 1,922,264; Aug. 15.
Roll glue spreader. H. G. Francis. 1,922,675; Aug. 15.
Roll-over machine. E. F. Oyster. 1,922,744; Aug. 15.
Roller. R. R. Ware. 1,922,609; Aug. 15.

Roller and key for printing presses. F. Osning. 1,922,495; Aug. 15.
Rotary airfoil. S. Rosenberg and A. Klemin. 1,922,866; Aug. 15.
Rotary engine. D. N. Hapkins. 1,922,363; Aug. 15.
Rotary pump. W. G. Hawley. 1,922,951; Aug. 15.
Rug. W. F. McCabe. Des. 90,494; Aug. 15.
Rug. I. J. Vetter. Des. 90,518; Aug. 15.
Safety brake, Automatic. R. J. De Shano. 1,922,570; Aug. 15.
Safety device. R. J. S. Pigott. 1,922,777; Aug. 15.
Safety pin carding machine. W. von Conta. 1,922,608; Aug. 15.
Safety supporting means for brake beams. S. A. Crone. 1,922,526; Aug. 15.
Salt solutions, Preparation of stabilized titanous. R. M. McKinney. 1,922,816; Aug. 15.
Salute, Multiple shot aerial. A. Fabrizio. 1,922,156; Aug. 15.
Sander drum. R. A. Williams. 1,922,905; Aug. 15.
Sanitary waste can. J. F. Geibel. 1,922,729; Aug. 15.
Sash and screws, Composite window. H. P. Gronbech. 1,922,286; Aug. 15.
Sash operator, Storm. P. O. Anderson. 1,922,722; Aug. 15.
Saw arbors, Adjusting device for. W. B. and J. E. Boice. 1,922,151; Aug. 15.
Scaffold. C. H. Adams. 1,922,069; Aug. 15.
Scraper, shovel and broom, Combined pan. J. Williams. 1,922,998; Aug. 15.
Screen: *See*—
Motion picture screen.
Screens, Making. S. B. Stine. 1,922,828; Aug. 15.
Screw, Coal feed. E. G. Baer. 1,922,023; Aug. 15.
Screw drive for grinding machines, Lead. S. W. Bath. 1,922,520; Aug. 15.
Screw-threaded members, Forming. H. G. H. Linnenbruegge. 1,922,689; Aug. 15.
Screw threads, Gauging of. J. Hartness. 1,922,849; Aug. 15.
Seal and producing the same, Quarts. E. O. Erickson. 1,922,536; Aug. 15.
Seal, Transparent. F. W. Humphner. 1,922,767; Aug. 15.
Seals, Producing quarts. E. O. Erickson. 1,922,535; Aug. 15.
Seam pressing machine. W. Hamann. 1,922,288; Aug. 15.
Seat for busses, Aisle. G. H. Scragg. 1,922,502; Aug. 15.
Seat top, Rumble. I. Weiss. 1,922,267; Aug. 15.
Seed, Apparatus for delinting and softening cotton. A. L. Wooten. 1,922,118; Aug. 15.
Self-sealing collapsible tube. E. Andersen. 1,922,652; Aug. 15.
Semicolloids and uniform colloids, Apparatus for the preparation of. H. Plauson. 1,923,018; Aug. 15.
Separation and concentration of the constituents of heterogeneous emulsions or suspensions. P. E. Mercier. 1,922,489; Aug. 15.
Separator for antifriction bearings. F. A. Heffernan. 1,922,540; Aug. 15.
Service station. H. O. Alden. Des. 90,468–9; Aug. 15.
Sewing machine. A. Grieb. 1,922,433; Aug. 15.
Sewing machines, Pinking attachment for. M. Popper. 1,922,453; Aug. 15.
Shade and curtain holder, Combined. F. P. and A. C. Lindsay. 1,922,136; Aug. 15.
Shaft bearing. A. A. Byerlein. 1,922,355; Aug. 15.
Shafts and the like, Retaining means for. F. L. Scott. 1,922,400; Aug. 15.
Shear, Motor-operated. C. B. Gray. 1,922,846; Aug. 15.
Sheath for wood-spikes, Expansion. R. Brosig. 1,922,120; Aug. 15.
Sheet feeder. C. W. Harrold. 1,922,040; Aug. 15.
Sheet material, Device for cutting. D. H. Goodwillie and E. L. Walters. 1,922,620; Aug. 15.
Shield, Inside glare. W. O. Hunter. 1,922,295; Aug. 15.
Shield, Wind deflector. C. Larsen. 1,922,964; Aug. 15.
Shingle roof. R. T. Johnston. 1,923,002; Aug. 15.
Ship-propulsion system, Electric. J. C. Wilson and H. S. Carnegie. 1,922,226; Aug. 15.
Shock absorber. R. H. Moulton. 1,923,011; Aug. 15.
Shock absorber. J. M. Nickelsen. 1,922,600; Aug. 15.
Shock absorber. J. P. Rock. 1,922,457; Aug. 15.
Shock absorber, Hydraulic. J. G. Everstam and E. A. Everstam, née Ericsson. 1,923,031; Aug. 15.
Shock absorber, Hydraulic. C. N. Mitchell. 1,923,038; Aug 15
Shoe. C. Miller. Des. 90,496–504; Aug. 15.
Shoe. M. Lapidus. 1,922,051; Aug. 15.
Shoe and making the same. K. P. Same. 1,922,430; Aug. 15.
Shoe jack. D. I. Salcaian. 1,922,750; Aug. 15.
Shore, Construction. R. R. Roemer. 1,922,747–8; Aug. 15.
Sifting and material directing device for containers. J. V. Pidgeon. 1,922,174; Aug. 15.
Sign: *See*—
Luminous sign.
Sign and display structure. C. Schneider. 1,922,142; Aug. 15.
Signal: *See*—
Vehicle signal.
Signal for brooders. F. Mockelmann. 1,922,898; Aug. 15
Signal receiving system. H. J. J. M. De Régnauld de Bellescize. 1,922,282; Aug. 15.
Signaling system. M. H. Hovey. 1,922,090; Aug. 15.
Signal transmission system. C. A. Boddie. 1,922,193; Aug. 15.
Signals, Detection of frequency modulated. C. W. Hansell. 1,922,290; Aug. 15.
Silk, Manufacture of dull luster artificial. M. Wadewitz and R. Elsner. 1,922,903; Aug. 15.
Silver plating compound and method of silver plating. J. H. Müller. 1,922,387; Aug. 15.
Single pole double throw quick make and break switch. C. A. Hardage. 1,922,696; Aug. 15.
Six-thread striping machine. A. H. Henne and D. M. Clark. 1,922,850; Aug. 15.
Ski fastener. H. Jensen. 1,922,955; Aug. 15.
Skylight, Ventilating. C. Young. 1,922,410; Aug. 15.
Slide fastener. R. H. Nicholson. 1,922,257; Aug. 15.
Slide valve engine. G. E. A. Hallett. 1,922,678; Aug. 15.
Smoke stick. O. C. Schmidt. 1,922,263; Aug. 15.
Snap fastener slide socket. M. F. Carr. 1,923,050; Aug. 15.
Socket, Shock absorbing. J. Juergens and R. B. Benjamin. 1,922,687; Aug. 15.
Sodium metasilicate hydrates, Purifying technical. L. R. Westbrook. 1,922,882; Aug. 15.
Sole molding machine. E. R. Murphy. 1,922,187; Aug. 15.
Solids from sewage and other fluids, Apparatus for removing. R. R. Knight. 1,922,442; Aug. 15.
Sound from a photographic film record, Reproducing. F. H. Owens. 1,922,681; Aug. 15.
Soundproof base for machines. K. M. White. 1,922,184; Aug. 15.
Spark plug. O. C. Rohde. 1,922,175; Aug. 15.
Spark plug containing and intensifying gap. J. D. Curtis. 1,922,661; Aug. 15.
Spark plug terminal. E. Nolan. 1,922,601; Aug. 15.
Speed transmission. W. Hasselkus. 1,922,241; Aug. 15.
Speed transmission, Automatic variable. L. Lombardo. 1,922,624; Aug. 15.
Speedometer stop mechanism. W. J. Obidine. 1,922,319; Aug. 15.
Spinning apparatus. T. Harris. 1,922,949–50; Aug. 15.
Sprayer. G. C. Pharo. 1,923,059; Aug. 15.
Spring connection. R. Henry. 1,922,765; Aug. 15.
Spring cover. E. Kuechle. 1,922,210; Aug. 15.
Spring device, Suspension. W. P. Woolley. 1,922,339; Aug. 15.
Spring for motor cars, Auxiliary. J. F. Rogers and W. D. Doonan. 1,922,781; Aug. 15.
Stage. P. Clark. 1,922,525; Aug. 15.
Stall, Milking parlor. H. J. Ferris. Des. 90,482; Aug. 15.
Stand, Package display. L. N. Levinsohn. Des. 90,492; Aug. 15.
Starter, Engine. C. Marcus. 1,923,087; Aug. 15.
Starter for internal combustion motors. R. T. Ronaldson. 1,922,865; Aug. 15.
Steam boiler. C. H. Davy. 1,922,662; Aug. 15.
Steam generator, Portable. J. W. Anderson. 1,922,843; Aug. 15.
Steamer, Pumpkin. J. Schmidt. 1,922,783; Aug. 15.
Steering wheel assembly. H. J. Murray. 1,922,493; Aug. 15.
Stencil printing machine. R. B. Aldcroftt. 1,922,341; Aug. 15.
Stencil printing machine. E. A. Owens. 1,922,710; Aug. 15.
Stereotype casting apparatus. E. L. Wilson. 1,922,514; Aug. 15.
Stitch forming mechanism, Overedge. F. Luts. 1,922,966; Aug. 15.
Stitch marking device. J. E. Larsson. 1,922,135; Aug. 15.
Stitching machine. J. Kerr. 1,922,441; Aug. 15.
Stop for towel cabinets Feed. R. G. Birr and A. C. Grunwald. 1,922,837; Aug. 15.
Storage and refrigeration apparatus, Combined. F. C. Hannaford. 1,922,129; Aug. 15.
Storage battery container. C. J. Dunsweiler. 1,922,082; Aug. 15.
Store illuminating device. H. D. Thompson. 1,922,786; Aug. 15.
Stove or range. F. J. Freeland. 1,922,361; Aug. 15.
Stoves, Attachment for. E. V. Coulston. 1,922,420; Aug. 15.
Strong box. C. F. Meilink and K. C. Weatherby. 1,922,486; Aug. 15.
Sugar dispenser, Automatic. H. V. Stanfield. 1,922,785; Aug. 15.
Sulphite cellulose digestion, of removing turpentine and other volatile matters present in the chips, Process at the. G. Haglund. 1,922,160; Aug. 15.
Supercharger for carburetors. J. H. Borthwick. 1,922,469; Aug. 15.
Superpressure overhead valve engine. F. A. Bullington. 1,922,353; Aug. 15.
Support: *See*—
Bathtub support. Pen support.
Support for stacked articles. H. Carew. 1,922,122; Aug. 15.
Supporting means for reflectors and like devices. V. L. Oestnaes and R. W. Luce. 1,922,819; Aug. 15.
Surface ornamenting composition and preparing and applying the same. H. E. Mattin. 1,922,548; Aug. 15.

Surveying instrument. A. F. Bumpus. 1,922,791; Aug. 15.
Swab plunger, Pneumatic. N. H. Ricker. 1,922,896; Aug. 15.
Sweeper, Street. G. B. Weaver and W. J. Knaut. 1,922,338; Aug. 15.
Swing, Double action. M. Hartman. 1,922,364; Aug. 15.
Switch: *See*—
High tension switch.
Single pole double throw quick make and break switch.
Switch cover. K. Hunciker. 1,922,698; Aug. 15.
Switching device. A. M. Greis. 1,922,946; Aug. 15.
Switching mechanism. H. A. Douglas. 1,922,235–6; Aug. 15.
Switching mechanism for automotive vehicles. H. A. Douglas. 1,922,234; Aug. 15.
Table: *See*—
Extension table.
Tachometer. J. Zubaty. 1,922,610; Aug. 15.
Tags, Affixing identification. G. E. Gaus. 1,922,799; Aug. 15.
Tailstock for lathes, grinders, and the like. A. Storm and T. Thorsen. 1,922,404; Aug. 15.
Tanks, Attachment for gasoline. J. S. Bowers. 1,922,470; Aug. 15.
Telegraph system for submarine cables. H. Nyquist. 1,922,139; Aug. 15.
Telephone system. J. I. Bellamy. 1,922,192; Aug. 15.
Telephone system. J. A. Burgener. 1,922,879; Aug. 15.
Telephone system. D. A. Christian. 1,922,232; Aug. 15.
Telephone system. A. Flad. 1,922,199; Aug. 15.
Telephone system. H. N. Friendly. 1,922,701; Aug. 15.
Telephone system. J. Wicks. Re18,917; Aug. 15.
Telephone system, Automatic. A. J. Escott. 1,922,287; Aug. 15.
Temperature control for furnaces, Automatic. G. Stevenson. 1,922,408; Aug. 15.
Tension controlling system. D. R. Shoults. 1,922,870; Aug. 15.
Tensioning spider for deep well turbines. A. Hollander. 1,922,583; Aug. 15.
Testing apparatus. E. H. Cain. 1,922,792; Aug. 15.
Textile fabric. J. Black. Des. 90,470; Aug. 15.
Textile fabric or similar article. W. Cohen. Des. 90,477; Aug. 15.
Textile fabric or similar article. S. Cusson. Des. 90,479; Aug. 15.
Textile fabric or similar article. J. Overmeyer. Des. 90,505; Aug. 15.
Textile fabric or similar article. G. M. Pulitzer. Des. 90,506–8; Aug. 15.
Textile fabric or similar article. M. A. Susi. Des. 90,514; Aug. 15.
Textile materials, Treatment of. G. H. Ellis and W. B. Miller. 1,922,038; Aug. 15.
Textile materials, Vegetable. L. Lilienfeld. 1,922,308; Aug. 15.
Textile packaging. K. D. MacColl. 1,922,969; Aug. 15.
Thermionic valve. W. R. Bullimore. 1,922,928; Aug. 15.
Thermostat. A. H. Osgood. 1,922,451; Aug. 15.
Thermostat. S. P. Vaughn. 1,922,720; Aug. 15.
Thread and yarn clearer. S. Hyslop. 1,922,683; Aug. 15.
Thread feeding mechanism. H. J. Tynan. 1,922,146; Aug. 15.
Ticket printing and registering device. C. Hünel. 1,922,731; Aug. 15.
Ticket rack. C. Genjack. 1,922,158; Aug. 15.
Time switch operating mechanism. B. P. Rucker. 1,922,868; Aug. 15.
Tinsel fabric, Colored. W. H. Lees. 1,922,789; Aug. 15.
Tire, Balloon. A. Hargraves. 1,922,291; Aug. 15.
Tire chain. J. C. McKay and B. J. King. 1,922,106; Aug. 15.
Tire spreader. J. Matchey. 1,922,740; Aug. 15.
Tire tubes, Apparatus for manufacturing rubber. J. F. Cavanagh. 1,922,471; Aug. 15.
Titanium dioxide. Production of. H. L. Rhodes. 1,922,328; Aug. 15.
Tong. H. C. Johansen. 1,923,010; Aug. 15.
Tool: *See*—
Cylinder working tool. Machine tool.
Electric tool. Pruning tool.
Tool for sheet binding staples, Removing. A. R. Heise. 1,922,681; Aug. 15.
Tool kit holder. J. J. Kroecker. 1,922,102; Aug. 15.
Tooth powder dispenser. P. J. Mandabach. 1,922,967; Aug. 15.
Torch holder. R. Wyss. 1,922,409; Aug. 15.
Towel. B. A. Martin. 1,922,160; Aug. 15.
Towels, drying cloths, and other objects, Device for suspending. A. A. Terry. 1,922,989; Aug. 15.
Toy. R. De Silva. 1,922,019; Aug. 15.
Toy. L. M. Reeder. 1,922,746; Aug. 15.
Toy. P. C. Thompson. 1,922,990; Aug. 15.
Toy vehicle. C. C. Blackmore. 1,923,049; Aug. 15.
Track and support therefor. K. J. Tobin. 1,922,837; Aug. 15.
Track for track laying wheels. J. Kuchar. 1,922,377; Aug. 15.
Track rails, Grinding. C. A. Fox. 1,923,020; Aug. 15.
Tractor. J. L. Shadburn and J. H. McMurray. 1,922,400; Aug. 15.
Tractor semitrailer. F. M. Reid. 1,922,895; Aug. 15.
Trailer body. N. A. Carter. 1,922,027; Aug. 15.
Train control system. A. J. Sorensen. 1,922,113; Aug. 15.
Transfer. R. M. Miller, W. J. Schenler, and D. A. Stout. 1,922,447; Aug. 15.
Transformer, Electrical. G. Leiva. 1,922,593; Aug. 15.
Transmission and control mechanism. F. A. Parsons. 1,922,633; Aug. 15.
Transmission gear. H. D. Lester. 1,922,965; Aug. 15.
Transmission mechanism. J. A. Heany. 1,922,804; Aug. 15.
Trap: *See*—
Animal trap.
Boiler return and vacuum trap.
Trap nest front. J. Imschweiler. 1,922,734; Aug. 15.
Tray, Ash. J. Squires. 1,922,180; Aug. 15.
Trimming joint. C. G. Voigt. 1,922,994; Aug. 15.
Trunk. G. H. Wheary. 1,922,065; Aug. 15.
Tube: *See*—
Catheter and drainage tube. Photo-tube.
Discharge tube. Self-sealing collapsible tube.
Tube and mounting therefor, Space discharge. A. Hund. 1,922,047; Aug. 15.
Tube cap, Collapsible. T. Williams. 1,922,999; Aug. 15.
Tube for boiler economizers, heat exchangers, and the like. R. S. Brown. 1,922,351; Aug. 15.
Tube rolling apparatus. R. K. Hopkins. 1,922,622; Aug. 15.
Tubes and the like, Packing collapsible. F. B. Cooney. 1,922,283; Aug. 15.
Tubing, Apparatus for lap welding. J. Gibson. 1,922,800; Aug. 15.
Tubing head. J. G. Bouslog. 1,922,024; Aug. 15.
Tumbler for crawling traction mechanism. J. J. Divney and B. Jacoby. 1,922,357; Aug. 15.
Turbibimeter. W. D. Staley. 1,922,830; Aug. 15.
Turbine, Elastic fluid. O. D. H. Bentley. 1,922,074; Aug. 15.
Twine. Device to control wrapping. W. J. Hogrefe and J. E. Stiles. 1,922,292; Aug. 15.
2-carboxy-5-amino diphenyl. W. S. Jones and W. Braker. 1,922,205; Aug. 15.
2-carboxy-5-nitro diphenyl. W. S. Jones and W. Braker. 1,922,206; Aug. 15.
2-cyano-5-nitro diphenyl. W. S. Jones and W. Braker. 1,922,207; Aug. 15.
2-naphthalenemonosulphonic acid. C. L. Masters. 1,922,813; Aug. 15.
Typewriting machine. R. G. Thompson and C. W. Crumfine. 1,922,991; Aug. 15.
Unit heater. P. J. McIntyre. 1,922,815; Aug. 15.
Unit heater. E. L. Snyder. 1,922,144; Aug. 15.
Uniting members. T. W. Dike. 1,922,668; Aug. 15.
Unloader, Automatic hay. J. Huhland. 1,922,176; Aug. 15.
Unloading mechanism for rotary compressors. M. Biesner. 1,922,639; Aug. 15.
Valve: *See*—
Air valve. Release valve.
Control valve. Thermionic valve.
Plug valve.
Valve. N. Atterbury. 1,922,190; Aug. 15.
Valve. C. J. Westling. 1,922,064; Aug. 15.
Valve controlling apparatus for chlorinators. A. S. Yeagley, jr. 1,922,268; Aug. 15.
Valve for internal combustion engines, Air inlet. S. H. Longfellow. 1,922,879; Aug. 15.
Valve head for air motors. N. Koehn. 1,922,875; Aug. 15.
Valve lifter. S. Palmer. 1,922,892; Aug. 15.
Valve structure. A. J. Johnson. 1,922,685; Aug. 15.
Valves, Operating mechanism for. S. R. Tymstra. 1,922,874; Aug. 15.
Vapor circulating attachment for bathtubs. C. D. Frech and F. F. Jueschke. 1,922,798; Aug. 15.
Vapor generator. H. J. Kerr. 1,922,664; Aug. 15.
Vaporizer, Electric. M. Katsman. 1,922,958; Aug. 15.
Vaporising apparatus. W. H. Lapp. 1,922,771; Aug. 15.
Variable coupling. R. Mangold. 1,922,596; Aug. 15.
Vehicle brake. V. G. Apple. 1,922,518; Aug. 15.
Vehicle, Endless track. A. Kégresse. 1,922,768; Aug. 15.
Vehicle jack. M. K. McCosh. 1,922,549–52; Aug. 15.
Vehicle lighting fixture. D. Di Carlo. 1,922,617; Aug. 15.
Vehicle signal. W. V. Lane. 1,922,592; Aug. 15.
Vehicle substructure. A. E. L. Chorlton. 1,922,197; Aug. 15.
Vending machine. J. H. McCormick and F. M. Bender. 1,922,258; Aug. 15.
Ventilating and cooling system for concrete dams or other heavy concrete constructions. G. Tocci. 1,922,561; Aug. 15.
Ventilato- noise deadener. G. E. Bradbury. 1,922,152; Aug. 15.
Vermiculite, Production of expanded. C. S. Miner. 1,922,448; Aug. 15.
Voltage variations, Arrangement for amplifying alternating. F. H. De Jong. 1,922,794; Aug. 15.
Wall tile attachment. A. W. Nelson. 1,922,214; Aug. 15.
Water heater. B. R. Glover and J. B. Nicholson. 1,922,581; Aug. 15.

Waterproof bag, Multiple wall. J. A. Rosmait. 1,922,867; Aug. 15.
Water tube boiler. J. Kemnal. 1,922,663; Aug. 15.
Welding and the like, Mechanism for electric. E. E. Dreese. 1,922,760; Aug. 15.
Welding apparatus, Arc. G. H. Koch. 1,922,249; Aug. 15.
Wheatstone bridge. R. A. Kopp. 1,922,209; Aug. 15.
Wheel: *See*—
Buffing wheel.
Caster wheel.
Gear wheel.
Metal wheel.
Power driven swiveled wheel.
Wheel construction, Fifth. J. S. Edwards. 1,922,359; Aug. 15.
Wind board. C. M. Stith. 1,922,986; Aug. 15.
Wind deflector for vehicles. A. G. Goldberg. 1,922,159; Aug. 15.
Window. B. A. Stere and E. C. Ausnehmer. 1,922,505; Aug. 15.
Window, Casement. A. W. Nelson. 1,922,494; Aug. 15.
Window cleaning device. E. J. Curry. 1,922,078; Aug. 15.
Window construction. A. C. Fast. 1,922,860; Aug. 15.
Window construction. S. Menton. 1,922,067; Aug. 15.
Window frame. J. M. Miller. 1,922,741; Aug. 15.
Window, Sliding. E. Munkert. 1,922,775; Aug. 15.
Wiper, Gauge rod. G. R. O'Brien. 1,922,450; Aug. 15.
Wire cloth, Joining the ends of. R. Franck. 1,922,940; Aug. 15.
Wire products, Apparatus for formation and welding of crossed. R. J. Southwell and T. H. Wickwire, jr. 1,922,271; Aug. 15.
Wire stretcher. H. P. Neptune. 1,922,706; Aug. 15.
Wort, Preparing a. H. C. Gore and C. N. Frey. 1,922,730; Aug. 15.
Wrench: *See*—
Combination wrench.
Pipe wrench.
Zigzag mesh fabric. T. H. Wickwire, jr. 1,922,269; Aug. 15.
Zinc from brass scrap and other materials containing zinc, Recovering. W. J. O'Brien and J. E. Drapeau, jr. 1,921,390; Aug. 15.
Zinc sulphate. E. A. Taylor. 1,922,902; Aug. 15.
Zirconium refractories. J. D. Morgan. 1,923,003; Aug. 15.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 15, 1933

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 7: 1,922,441
13. 6: 1,922,324
2— 130: 1,922,046
159: 1,922,095
228: 1,922,638
240: 1,922,413
264: 1,922,855
2— 1: 1,922,395
4— 173: 1,922,330
257: 1,922,961
262: 1,922,706
5— 21: 1,922,613
90: 1,922,104
208: 1,922,268
220: 1,922,808
248: 1,922,979
8— 5: 1,922,033
1,922,463
1,922,727
1,922,728
1,922,976
6: 1,922,993
19: 1,922,408
1,922,511
1,922,859
20: 1,922,308
10— 1: 1,922,669
12— 22: 1,922,137
77: 1,922,134
80: 1,922,140
123: 1,922,780
128. 1: 1,922,347
142: 1,922,480
13— 1: 1,922,312
8: 1,922,274
26: 1,922,029
1,922,034
15— 24: 1,922,238
84: 1,922,338
97: 1,922,266
111: 1,922,908
120: 1,922,637
1,922,658
183: 1,922,752
210: 1,922,490
261: 1,922,976
262: 1,922,733
1,922,981
16— 21: 1,922,098
38: 1,922,099
45: 1,922,556
94: 1,922,337
128: 1,922,067
140: 1,922,365
1,922,753
18— 2: 1,922,027
5: 1,922,527
8: 1,922,715
1,922,718
15: 1,922,959
16: 1,922,937
33: 1,922,875
19— 121: 1,923,030
130: 1,922,949
1,922,950
20—1. 123: 1,922,525
6: 1,922,466
11: 1,922,741
20: 1,922,370
35: 1,922,800
40. 5: 1,922,133
1,922,314
1,922,027
42: 1,922,775
49: 1,922,360
1,922,722
66: 1,922,068
92: 1,922,904
22— 3: 1,922,514
33: 1,922,744
100: 1,922,446
200: 1,922,596
1,923,000
23— 1: 1,922,283
4: 1,922,187
11: 1,922,510
22— 64: 1,922,224
78: 1,922,280
90: 1,922,697
110: 1,922,833
1,923,008
117: 1,922,490
121: 1,922,662
125: 1,922,390
1,922,992
151: 1,922,497
160: 1,922,278
1,922,280
184: 1,922,891
196: 1,922,186
202: 1,922,328
217: 1,922,603
226: 1,922,572
232: 1,922,666
260: 1,922,816
24— 3: 1,922,594
77: 1,922,050
205: 1,922,267
25-41: 1,922,166
58: 1,922,513
87: 1,922,474
118: 1,922,584
26— 1: 1,922,169
64: 1,922,683
1,922,684
29— 34: 1,922,751
84: 1,922,772
86. 3: 1,922,392
148: 1,922,514
148. 4: 1,922,806
149. 5: 1,922,304
153: 1,922,798
163. 5: 1,922,826
30— 11: 1,922,877
12: 1,922,072
31— 1: 1,922,723
33— 18: 1,922,644
33— 48: 1,922,701
85: 1,922,202
169: 1,922,895
170: 1,922,758
174: 1,922,130
190: 1,922,849
208: 1,922,344
212: 1,922,907
226: 1,922,864
35— 12: 1,922,229
36— 2: 1,922,172
45: 1,922,051
59: 1,922,924
37— 143: 1,922,917
156: 1,922,880
40— 2: 1,922,767
11: 1,922,900
22: 1,922,709
28: 1,922,579
32: 1,922,541
125: 1,922,142
130: 1,922,309
131: 1,922,819
133: 1,922,595
1,922,617
146: 1,922,626
148: 1,922,567
41— 10: 1,922,306
24: 1,922,507
26: 1,922,739
43— 22: 1,923,085
42: 1,922,841
80: 1,923,099
97: 1,922,265
131: 1,922,702
44— 6: 1,922,301
45— 75: 1,922,085
90: 1,922,215
113: 1,922,478
46— 14: 1,923,010
32: 1,922,990
37: 1,922,746
47— 55: 1,922,165
49— 4: 1,922,649
180: 1,922,573
49— 14: 1,922,620
1,922,641
33: 1,922,637
1,922,894
48: 1,922,426
50: 1,922,327
63: 1,922,827
78. 1: 1,922,535
81: 1,922,803
50— 16: 1,922,954
23: 1,922,926
51— 32: 1,922,498
33: 1,922,497
34: 1,922,246
76: 1,922,817
101: 1,922,520
165: 1,922,093
178: 1,923,020
184. 3: 1,922,202
198: 1,922,108
194: 1,922,905
195: 1,922,912
53— 1: 1,922,419
56— 15: 1,922,376
18: 1,922,374
1,922,375
25: 1,922,284
264: 1,922,126
58— 19: 1,922,948
60— 53: 1,922,887
61— 20: 1,922,055
22: 1,922,097
30: 1,923,561
45: 1,923,008
1,923,007
1,923,008
62— 4: 1,922,508
32: 1,922,905
66: 1,922,456
91. 5: 1,922,129
104: 1,922,795
115: 1,922,712
1,922,942
116: 1,922,991
119. 5: 1,922,203
1,922,217
1,922,713
126: 1,922,109
1,922,101
133: 1,922,790
178: 1,922,132
64— 8: 1,923,041
89: 1,922,431
90: 1,922,506
100: 1,922,669
65— 53: 1,922,992
61: 1,922,122
66— 19: 1,922,850
40: 1,922,977
135: 1,922,119
68— 9: 1,922,052
11: 1,922,085
32: 1,922,886
70— 14: 1,922,449
46: 1,922,889
47: 1,922,438
74: 1,923,062
107: 1,922,897
124: 1,923,025
127: 1,923,574
71— 6: 1,922,562
1,922,900
72— 7. 2: 1,922,218
35: 1,922,774
70: 1,923,340
1,922,472
71: 1,923,053
101: 1,922,516
1,922,945
105: 1,922,470
73— 1: 1,922,166
31: 1,922,049
37: 1,922,423
51: 1,922,882
1,922,920
82: 1,922,273
73— 109: 1,922,616
111: 1,922,834
167: 1,922,071
74— 28: 1,922,812
31: 1,922,357
34: 1,922,241
1,922,660
38: 1,922,275
97: 1,922,634
1,922,634
112: 1,922,968
75— 1: 1,922,402
46: 1,922,037
1,922,038
58: 1,922,429
62: 1,922,301
77— 7: 1,923,532
80— 5: 1,923,622
30: 1,923,017
34: 1,922,531
51: 1,923,803
81— 57: 1,923,010
70: 1,922,128
105: 1,922,496
186: 1,922,680
196: 1,922,630
82— 20: 1,922,980
31: 1,922,404
83— 22: 1,923,013
26: 1,922,938
28: 1,922,118
44: 1,922,883
73: 1,922,368
1,922,700
84— 170: 1,922,239
183: 1,922,530
376: 1,922,381
302: 1,922,685
85— 2. 4: 1,922,120
87— 6: 1,922,484
88— 14: 1,922,830
16. 6: 1,922,963
17: 1,922,742
1,923,042
24: 1,922,349
1,922,537
1,922,636
53: 1,922,766
60: 1,922,932
164: 1,922,934
89— 43: 1,922,080
90— 9: 1,922,756
1,922,757
21: 1,922,073
1,922,633
91— 49: 1,922,528
50: 1,922,762
51: 1,922,117
1,922,675
68: 1,922,444
1,922,473
1,922,548
1,922,936
70. 1: 1,922,387
92— 1: 1,922,313
2: 1,922,160
7: 1,922,262
33: 1,922,366
40: 1,922,325
93— 2: 1,922,412
39: 1,922,180
43: 1,922,506
94— 1. 5: 1,922,462
95— 5: 1,922,962
5. 7: 1,922,434
8: 1,922,670
75: 1,922,615
77. 5: 1,922,461
94: 1,922,725
97— 8: 1,922,210
10: 1,922,873
47: 1,922,222
98— 43: 1,922,070
44: 1,922,984
99: 1,922,152
99— 2: 1,922,048
1,922,263
1,922,782
1,922,974
5: 1,922,177
10: 1,922,096
11: 1,922,143
100— 14: 1,922,046
49: 1,922,773
50: 1,922,382
101— 4: 1,922,248
28: 1,922,135
44: 1,922,852
123: 1,922,341
1,922,710
129: 1,922,058
149: 1,922,043
348: 1,922,495
352: 1,922,533
401. 2: 1,922,081
422: 1,922,372
102— 20: 1,922,156
21: 1,922,081
103— 40: 1,922,121
46: 1,922,264
52: 1,922,427
53: 1,922,206
102: 1,922,583
103: 1,922,050
138: 1,922,951
144: 1,922,797
148: 1,922,196
153: 1,922,721
212: 1,923,012
218: 1,922,437
234: 1,922,656
253: 1,922,164
105— 35: 1,922,197
1,922,806
80: 1,922,576
366: 1,922,632
106— 5: 1,922,558
11: 1,922,083
40: 1,922,908
1,922,910
1,922,952
107— 4: 1,922,085
8: 1,922,568
108— 9: 1,923,002
16: 1,922,410
109— 1: 1,922,486
1,922,557
110— 45: 1,922,960
47: 1,922,421
64: 1,922,405
112— 3: 1,922,211
1,922,212
25: 1,923,005
51: 1,922,906
78: 1,922,334
79: 1,922,131
122: 1,922,453
162: 1,922,906
184: 1,922,433
113— 52: 1,922,057
1,922,058
103: 1,922,324
116— 53: 1,922,706
57: 1,922,319
116: 1,922,107
117— 21: 1,922,146
119— 31: 1,922,086
1,922,157
49: 1,922,734
52: 1,922,435
77: 1,922,612
120— 49: 1,922,831
108: 1,922,801
121— 7: 1,922,220
11: 1,922,378
42: 1,922,881
122— 8: 1,922,521
23: 1,922,943
235: 1,922,599
1,922,663
1,922,664
122— 235: 1,922,665
299: 1,922,662
504. 3: 1,922,636
123— 8: 1,922,477
16: 1,922,363
53: 1,922,018
80: 1,922,985
73: 1,922,697
119: 1,922,640
120: 1,922,538
1,922,539
148: 1,922,655
169: 1,922,175
1,922,651
171: 1,922,200
174: 1,922,788
178: 1,922,393
179: 1,922,346
184: 1,922,779
185: 1,922,057
186: 1,922,365
188: 1,922,678
191: 1,922,353
126— 30: 1,922,381
1,922,890
41: 1,922,885
110: 1,922,144
191: 1,922,587
211: 1,922,243
215: 1,922,430
350: 1,922,771
127— 14: 1,922,411
128— 134: 1,923,001
214: 1,922,941
272: 1,922,811
283: 1,922,783
299: 1,922,947
349: 1,922,084
129— 13: 1,922,691
1,928,022
1,923,023
16. 7: 1,922,213
1,922,736
131— 51: 1,922,180
132— 33: 1,922,091
83: 1,922,336
86: 1,922,347
134— 26: 1,922,272
1,922,660
79: 1,922,646
136— 86: 1,922,453
137— 68: 1,922,297
68: 1,922,383
76: 1,922,835
139: 1,922,777
1,922,874
140: 1,922,705
144: 1,922,512
153: 1,922,911
158: 1,922,223
160: 1,922,848
138— 9: 1,922,408
139— 7: 1,923,030
71: 1,928,048
92: 1,922,922
421: 1,922,943
1,922,944
140— 112: 1,922,270
143— 35: 1,922,151
144— 309: 1,922,668
145— 30: 1,922,880
146— 3: 1,922,818
13: 1,922,884
16: 1,922,516
51: 1,922,745
172: 1,923,014
179: 1,922,973
180: 1,922,781
148— 8: 1,923,055
26: 1,922,662
149— 21: 1,922,671
150— 38: 1,922,619
40: 1,922,755
52: 1,922,485
151— 19: 1,922,378
152— 13: 1,922,201

182— 14: 1,922,108
183— 54: 1,922,380
184— 2: 1,922,501
9: 1,922,471
1,922,740
155— 33: 1,922,562
65: 1,922,364
130: 1,922,582
148: 1,922,306
158: 1,922,418
179: 1,922,228
156— 10: 1,922,899
21: 1,922,170
22: 1,923,024
23: 1,922,126
26: 1,922,389
36: 1,922,286
1,922,764
158— 11: 1,922,857
106: 1,922,348
117.1: 1,922,201
119: 1,922,626
159— 11: 1,922,914
163— 8: 1,923,608
164— 47: 1,922,846
112: 1,922,869
124: 1,922,614
166— 1: 1,922,780
10: 1,922,044
21: 1,922,154
167— 3: 1,922,486
22: 1,922,607
34: 1,923,004
53: 1,922,919
170— 148: 1,922,606
150: 1,922,124
1,922,179
172: 1,923,054
171— 97: 1,922,711
119: 1,922,182
1,922,794
212: 1,922,028
228: 1,922,247
1,922,724
313: 1,922,294
321: 1,922,317
323: 1,922,191
327: 1,922,082
172— 8: 1,922,226
36: 1,922,216
1,922,258
1,922,824
152: 1,922,163
220: 1,922,759
1,922,804
274: 1,922,806
1,922,810
276: 1,922,737
281: 1,922,250
293: 1,922,829
1,922,885
173— 264: 1,922,726
266: 1,922,907
268: 1,922,544
269: 1,922,601
273: 1,922,077
279: 1,922,105
322: 1,922,686
328: 1,922,394
1,922,524
1,922,667
334: 1,922,651
353: 1,922,336
174— 175: 1,922,566
175— 183: 1,922,792
1,922,953
204: 1,922,452
320: 1,922,089
338: 1,923,047
339: 1,922,679
356: 1,922,693
176— 2: 1,922,245
36: 1,922,536
108: 1,922,086
122: 1,923,061
124: 1,922,984
126: 1,922,244

177— 7: 1,922,397
329: 1,922,592
351: 1,922,194
384: 1,922,517
178— 44: 1,922,602
63: 1,922,130
179— 1: 1,922,418
2.5: 1,922,045
1,922,108
1,922,335
16: 1,922,199
1,922,701
18: 1,922,192
1,922,232
1,922,237
27: R. 18,917
1,922,879
78: 1,922,138
1,922,183
100.3: 1,922,631
171: 1,922,554
180— 43: 1,922,962
83: 1,922,570
181— 31: 1,922,181
183— 7: 1,922,125
10: 1,922,088
21: 1,922,075
36: 1,922,460
40: 1,922,370
48: 1,922,316
86: 1,922,209
184— 6: 1,922,707
187— 3: 1,923,034
52: 1,922,708
188— 72: 1,922,308
1,922,307
78: 1,922,778
82: 1,922,352
1,922,535
88: 1,923,011
89: 1,923,038
112: 1,922,719
156: 1,922,518
210: 1,922,326
264: 1,922,318
189— 23: 1,922,443
34: 1,922,894
46: 1,922,042
65: 1,922,494
66: 1,922,505
82: 1,922,289
85: 1,922,214
190— 13: 1,922,055
192— 4: 1,922,454
35: 1,922,054
48: 1,922,350
68: 1,922,645
1,922,833
105: 1,922,931
131: 1,922,522
194— 1: 1,922,358
4: 1,922,253
57: 1,922,915
102: 1,922,925
195— 32: 1,922,730
196— 52: 1,922,491
53: 1,922,499
1,922,542
60: 1,923,016
65: 1,922,322
97: 1,922,528
197— 160: 1,922,991
177: 1,922,553
198— 25: 1,922,717
31: 1,922,856
130: 1,922,141
194: 1,922,908
203: 1,922,609
213: 1,922,023
220: 1,922,198
224: 1,922,972
200— 8: 1,922,234
1,922,235
1,922,236
37: 1,922,572
39: 1,922,868
48: 1,922,276
51: 1,922,648

200— 89: 1,922,260
1,922,493
98: 1,922,696
87: 1,922,422
113: 1,922,500
115.5: 1,922,643
1,922,948
121: 1,922,320
131: 1,922,642
139: 1,922,440
1,922,608
139: 1,922,451
140: 1,922,590
1,922,898
144: 1,922,080
150: 1,922,862
201— 62: 1,922,209
76: 1,922,221
202— 6: 1,922,321
204— 1: 1,922,847
1,922,853
205— 21: 1,923,066
25: 1,922,770
26: 1,922,110
1,922,178
206— 2: 1,922,082
16: 1,922,102
40.6: 1,922,158
41: 1,922,906
44: 1,922,208
46: 1,922,580
47: 1,922,255
51: 1,922,989
58: 1,922,826
1,923,053
65: 1,922,233
206— 181: 1,922,609
184: 1,922,955
209— 111: 1,922,188
121: 1,923,009
160: 1,922,489
195: 1,922,975
247: 1,922,223
283: 1,922,174
363: 1,922,966
210— 2: 1,922,484
1,922,847
28: 1,922,268
1,923,044
40: 1,922,920
54: 1,922,714
70: 1,922,620
74: 1,922,442
211— 73: 1,923,476
89: 1,922,980
212— 93: 1,922,176
213— 8: 1,922,732
22: 1,922,703
30: 1,922,200
60: 1,923,045
69: 1,923,046
174: 1,922,543
220: 1,922,310
214— 26: 1,922,987
60: 1,922,970
65: 1,922,094
78: 1,922,851
83: 1,922,447
135: 1,922,285
215— 100: 1,922,066
216— 54: 1,922,577
57: 1,922,576
217— 12: 1,922,842
72: 1,922,588
122: 1,922,807
125: 1,922,808
1,922,809
219— 4: 1,923,021
1,923,022
40: 1,922,801
10.65: 1,922,801
10.69: 1,922,332
48.2: 1,922,787
106: 1,922,331
138: 1,922,754
241— 6: 1,922,604
242— 1: 1,922,716
55.3: 1,922,892
75: 1,922,870
141: 1,922,292
243— 23: 1,923,052
244— 2: 1,922,371
1,922,709
19: 1,922,167
1,922,866
30: 1,922,063
31: 1,922,311
1,922,825
245— 10: 1,922,940
246— 41: 1,922,090
63: 1,922,113
247— 15: 1,922,432
248— 16: 1,922,184
20: 1,922,345
250— 2: 1,922,050
8: 1,922,282
9: 1,922,627
11: 1,922,677
20: 1,922,195
1,922,270
1,922,623
27: R. 18,916
1,922,155

219— 44: 1,922,782
220— 17: 1,922,729
24: 1,922,901
30: 1,923,026
40: 1,922,112
42: 1,922,780
1,922,963
52: 1,922,916
60: 1,922,127
86: 1,922,470
1,922,930
97: 1,922,695
221— 47.1: 1,922,100
47.4: 1,922,277
60: 1,922,204
1,922,653
1,922,990
65: 1,922,967
114: 1,922,785
222— 28: 1,922,288
67: 1,922,161
1,922,858
226— 68: 1,922,458
98: 1,922,356
102: 1,922,148
230— 1.5: 1,922,171
5.5: 1,922,854
15: 1,922,571
29: 1,922,145
31: 1,922,309
46: 1,922,354
51: 1,922,565
55: 1,922,867
57: 1,922,590
230— 29: 1,922,092
140: 1,922,639
234— 1: 1,922,320
34: 1,922,362
35: 1,922,056
43: 1,922,836
235— 27: 1,922,026
31: 1,922,731
61: 1,922,067
63: 1,922,971
78: 1,922,465
91: 1,922,976
236— 48: 1,922,730
78: 1,922,251
101: 1,922,286
104: 1,922,403
237— 79: 1,922,603
240— 1: 1,922,079
1,922,786
1,922,613
10: 1,922,022
1,922,801
1,922,332
1,922,331
138: 1,922,754
241— 6: 1,922,604
242— 1: 1,922,716
55.3: 1,922,892
75: 1,922,870
141: 1,922,292
243— 23: 1,923,052
244— 2: 1,922,371
1,922,709
19: 1,922,167
1,922,866
30: 1,922,063
31: 1,922,311
1,922,825
245— 10: 1,922,940
246— 41: 1,922,090
63: 1,922,113
247— 15: 1,922,432
248— 16: 1,922,184
20: 1,922,345
250— 2: 1,922,050
8: 1,922,282
9: 1,922,627
11: 1,922,677
20: 1,922,195
1,922,270
1,922,623
27: R. 18,916
1,922,155

250— 27.5: 1,922,047
1,922,163
1,922,185
1,922,264
1,922,672
1,922,673
1,922,674
1,922,926
1,922,115
1,922,116
1,922,930
34: 1,922,281
1,922,788
1,922,822
370— 5: 1,922,439
371— 53: 1,922,040
1,922,041
40: 1,922,881
251— 62: 1,922,190
88: 1,922,064
373— 32: 1,922,021
1,922,233
35: 1,922,735
88: 1,922,802
94: 1,922,904
126: 1,922,578
274— 10: 1,922,231
48: 1,922,821
277— 22: 1,922,225
53: 1,923,029
280— 33.1: 1,922,349
1,922,395
87.5: 1,923,049
281— 5: 1,922,611
282— 12: 1,922,114
1,922,206
285— 22: 1,922,024
30: 1,922,647
191: 1,922,968
286— 5: 1,922,076
287— 20: 1,922,400
53: 1,922,929
103: 1,922,564
290— 31: 1,922,414
292— 87: 1,922,676
98: 1,922,242
128: 1,922,043
164: 1,922,261
340: 1,922,435
342: 1,922,298
294— 82: 1,922,288
296— 28: 1,923,027
48: 1,922,057
84: 1,922,150
97: 1,922,295
98: 1,922,545
99: 1,922,267
298— 22: 1,922,111
299— 88: 1,923,059
106: 1,922,259
131: 1,922,519
301— 6: 1,922,566
9: 1,923,028
44: 1,922,460
302— 53: 1,922,320
308— 22: 1,922,227
80: 1,922,417
84: 1,922,252
304— 20: 1,922,069
305— 9: 1,922,708
10: 1,922,377
306— 11: 1,922,621
308— 21: 1,922,026
35: 1,922,355
47: 1,922,597
57: 1,922,306
170: 1,922,589
201: 1,922,540
309— 31: 1,923,040
43: 1,922,360
312— 36: 1,923,052
1,923,053
38: 1,922,837
1,922,845
115: 1,922,147
189: 1,922,457
1,922,504

265— 26: 1,922,871
47: 1,923,039
266— 18: 1,923,428
23: 1,923,409
1,923,529
267— 1: 1,922,921
8: 1,923,031
9: 1,922,457
1,922,600
19: 1,922,230
37: 1,922,210
45: 1,922,781
54: 1,922,765

U. S. GOVERNMENT PRINTING OFFICE: 1933

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Albertson, S., Co. Inc., Boston, Mass. Oranges. Serial No. 339,661; Aug. 22. Class 46.

Allied Brands, Inc., New York, N. Y. Shelled peanuts. Serial No. 339,174; Aug. 22. Class 46.

Allied Petroleum Corporation, Warren, Pa. Lubricating oils. Serial No. 339,596; Aug. 22. Class 15.

Almstead, Charles W., Dallas, Tex. Beer and malt and hop beverages. Serial No. 339,336; Aug. 22. Class 48.

Amazul Products Co., The. (See Wiley, J. Elliott.)

American Brewery, Incorporated, Baltimore, Md. Malt beverages. Serial No. 339,017; Aug. 22. Class 48.

American Racing Pigeon Union, Jersey City, N. J. Bands for pigeons for identification purposes. Serial No. 334,662; Aug. 22. Class 50.

American Varnish Co., The, Chicago, Ill. Preparations for the treatment of paper to make same washable. Serial No. 339,057; Aug. 22. Class 6.

Anchor Post Fence Company, Baltimore, Md. Oil burners. Serial No. 338,027; Aug. 22. Class 34.

Andrews, Cuthbert, London, England. X-ray tubes. Serial No. 339,486; Aug. 22. Class 44.

Aoyama, Y., doing business as Y. Aoyama Company, Brawley, Calif. Fresh vegetables and melons. Serial No. 331,421; Aug. 22. Class 46.

Appalachian Coals, Incorporated, Cincinnati, Ohio. Coal. Serial No. 339,216; Aug. 22. Class 1.

Arthel (Societe D'Exploitation des Brevets Jacques Arthuys), Paris, France. Heliostats and reflectors. Serial No. 336,928; Aug. 22. Class 34.

Asbury Mills, The, New York, N. Y. Bathing suits, underwear, pajamas, etc. Serial No. 339,487; Aug. 22. Class 39.

Baker & Company, Inc., Newark, N. J. Dental alloy for amalgams. Serial No. 339,581; Aug. 22. Class 44.

Bates, B. C., Little Rock, Ark. Liquid condiment. Serial No. 336,898; Aug. 22. Class 46.

Bear Brand Hosiery Co., Kankakee and Chicago, Ill. Hosiery. Serial No. 337,590; Aug. 22. Class 39.

Beaufix Laboratories. (See Murray, Samuel E.)

Bloomingdale Bros., Inc., New York, N. Y. Electric sewing machines. Serial No. 337,631; Aug. 22. Class 23.

Blue Moon Cheese Products, Inc., Minneapolis, Minn. Cheese spreads. Serial No. 339,385; Aug. 22. Class 46.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics. Serial No. 339,549; Aug. 22. Class 42.

Braumeister Publishing Co. (See Wahl, Robert.)

Brewer, Alva B., Washington, D. C. Newspaper column. Serial No. 337,664; Aug. 22. Class 38.

Calderon, Victor M., Co., Inc., New York, N. Y. Canned fish. Serial No. 326,414; Aug. 22. Class 46.

California Prune & Apricot Growers Association, San Jose, Calif. Fruit juices, syrups, crushed fruits. Serial No. 338,033; Aug. 22. Class 46.

Calumet Tea & Coffee Company, Chicago, Ill. Canned fruits, vegetables, fruits for salads, etc. Serial No. 336,857; Aug. 22. Class 46.

Carr, J. B., Biscuit Company, Wilkes-Barre, Pa. Crackers, biscuits, wafers, etc. Serial No. 339,061; Aug. 22. Class 46.

Caso, Domenico, Newman, Calif. Cheese. Serial No. 339,251; Aug. 22. Class 46.

Celanese Corporation of America, New York, N. Y. Fabrics of cellulose derivatives. Serial Nos. 338,402–3; Aug. 22. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics. Serial No. 339,257; Aug. 22. Class 42.

Celanese Corporation of America, New York, N. Y. Underwear. Serial No. 339,258; Aug. 22. Class 39.

Cella, Battista, doing business as Roma Wine Company, Lodi, Calif. Wines. Serial No. 339,814; Aug. 22. Class 47.

Citrolax Corporation, New York, N. Y. Laxative preparations. Serial No. 332,748; Aug. 22. Class 6.

Class & Nachod Brewing Company, Philadelphia, Pa. Malt beverage. Serial Nos. 339,250–60; Aug. 22. Class 48.

Codo Manufacturing Corporation, Coraopolis, Pa. Typewriter ribbons and carbon papers. Serial No. 339,100; Aug. 22. Class 11.

Codo Manufacturing Corporation, Coraopolis, Pa. Carbon papers. Serial No. 339,222; Aug. 22. Class 11.

Collins & Aikman Corporation, Philadelphia, Pa. Pile fabrics in the piece. Serial No. 335,995; Aug. 22. Class 42.

Continental Blade Corporation, Brooklyn, N. Y. Razors and blades. Serial No. 338,968; Aug. 22. Class 23.

Curcio, Vincent J., doing business as V. J. Curcio Company, Jersey City, N. J. Permanent waving machines. Serial No. 338,362; Aug. 22. Class 44.

Delta Canneries, Inc., Stockton, Calif. Canned pork and beans and canned fruits and vegetables. Serial No. 339,337; Aug. 22. Class 46.

Dorset Woolen Company, Providence, R. I. Woven textile fabrics. Serial No. 337,289; Aug. 22. Class 42.

Duesberg, Frederick R., East Greenbush, N. Y. Medicine. Serial No. 338,283; Aug. 22. Class 6.

Durante, Jimmy, doing business as James Durante, New York, N. Y. Jig saw puzzles, papier mâché masks, playing cards, etc. Serial No. 339,776; Aug. 22. Class 22.

Eckerd's of Erie, Inc., Erie, Pa. Toilet creams, lotions, etc. Serial No. 337,947; Aug. 22. Class 6.

Eckhart, B. A., Milling Co., Chicago, Ill. Wheat flour. Serial No. 338,514; Aug. 22. Class 46.

Educator Biscuit Company, Chicago, Ill. Crackers and biscuits. Serial No. 339,263; Aug. 22. Class 46.

Etablissements Léon Rigault Société Anonyme, Beaune, France. Wines. Serial No. 339,781; Aug. 22. Class 47.

Eveready Oil Co., Inc., Philadelphia, Pa. Kerosene. Serial No. 339,554; Aug. 22. Class 15.

Fawcett Publications, Inc., Minneapolis, Minn. Magazine. Serial No. 338,474; Aug. 22. Class 38.

Fi-Ba-So Products Co. (See Mendlik, Othmar J.)

Fitger Company, The, Duluth, Minn. Malt beverages. Serial No. 339,714; Aug. 22. Class 48.

Flav-Oak Manufacturing Company. (See Shniderman, Abe.)

Fort Pitt Bedding Company, Pittsburgh, Pa. Mattresses. Serial No. 338,692; Aug. 22. Class 32.

Four Seasons Products Company, East Orange, N. J. Skin softening and healing lotion. Serial No. 339,659; Aug. 22. Class 6.

Freeman, Roe S., doing business as Min-T Company, Atlanta, Ga. Flavored tea. Serial No. 339,520; Aug. 22. Class 46.

G. E. Specialty Co., Brooklyn, N. Y. Insecticide and disinfectant. Serial No. 339,104; Aug. 22. Class 6.

General Manufacturing Corporation, Richmond, Va. Adhesive tape for fusing wood together, etc. Serial No. 337,221; Aug. 22. Class 5.

Glaso Company, Inc., The, New York, N. Y. Liquid nail polish, polish remover, cuticle remover, etc. Serial No. 338,410; Aug. 22. Class 6.

Glemby Company, Inc., The, New York, N. Y. Combs. Serial No. 338,564; Aug. 22. Class 40.

Gluckstern, Philip R., doing business as Gluckstern's Pure Food Products Company, Brooklyn, N. Y. Soup croutons. Serial No. 339,305; Aug. 22. Class 46.

Gordon Baking Company, Detroit, Mich. Whole wheat bread. Serial No. 338,778; Aug. 22. Class 46.

Gotham Silk Hosiery Company, Inc., New York, N. Y. Underwear and gloves. Serial No. 338,739; Aug. 22. Class 39.

Gray Brothers, Inc., Syracuse, N. Y. Shoes. Serial No. 328,061; Aug. 22. Class 39.

Guggenheim Co., Inc., The, Washington, D. C. Wines. Serial No. 339,898; Aug. 22. Class 47.

Gwinn Bros. & Co., Huntington, W. Va. Wheat flour. Serial No. 338,930; Aug. 22. Class 46.

Hampton Cracker Co., The, Louisville, Ky. Crackers, biscuits, cookies, etc. Serial No. 325,710; Aug. 22. Class 46.

Happy Feet Company, Los Angeles, Calif. Foot powder. Serial No. 339,031; Aug. 22. Class 6.

Hardy, James G., doing business as James G. Hardy & Co., New York, N. Y. Sheets and pillow cases. Serial No. 337,296; Aug. 22. Class 42.

Harsfeld's, Inc., Kansas City, Mo. Children's shoes. Serial Nos. 338,522–3; Aug. 22. Class 39.

Haskell, W. E., Health Furniture Co. Inc., Springfield, Mass. Playground exercising devices. Serial No. 338,247; Aug. 22. Class 22.

Hawaiian Pineapple Company, Ltd., Honolulu, Hawaii, and San Francisco, Calif. Canned pineapple juice. Serial No. 338,370; Aug. 22. Class 46.

Hayban Laboratories. (See Wanderman, Seymour S.)

Heekin Company, The, Cincinnati, Ohio. Ground coffee. Serial No. 338,493; Aug. 22. Class 46.

Hercules Powder Company, Wilmington, Del. Preparation for killing wood-destroying insects. Serial No. 339,352; Aug. 22. Class 6.

Hewitt Bros. Soap Company, The, doing business as Launette Products Company, Dayton, Ohio. Washing powder. Serial No. 335,824; Aug. 22. Class 4.

Higley Chemical Company, Dubuque, Iowa. Chemical compound for cleaning floors. Serial No. 335,235; Aug. 22. Class 4.

Hill, Darrell, doing business as The Hillite Laboratories, Baltimore, Md. Preparation for the treatment of athlete's foot. Serial No. 339,723; Aug. 22. Class 6.

Hillite Laboratories. (See Hill, Darrell.)

Household Products Co., Chicago, Ill. Canned fish and sea food. Serial No. 337,005; Aug. 22. Class 46.

Hydrocarbon Company, The, State College, Pa. Motor lubricating oils. Serial No. 331,686; Aug. 22. Class 15.

Inventors Manufacturing Corporation, Chicago, Ill. Electrical cooking devices. Serial No. 339,603; Aug. 22. Class 21.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Iokelp Company, The. (See Love, James.)
Jayson's Coats, Inc., New York, N. Y. Coats. Serial No. 331,841; Aug. 22. Class 39.
Joh. Gottl. Hafftmann, A. G., Pirna, Germany. Stomach bitters. Serial No. 332,009; Aug. 22. Class 6.
Johnson, Walter H., Candy Co. Chicago, Ill. Candy. Serial No. 338,524; Aug. 22. Class 46.
Justrite Company, The, Milwaukee, Wis. Pet foods. Serial No. 339,461; Aug. 22. Class 46.
Kansas Flour Mills Corporation, The, Kansas City, Mo. Wheat flour. Serial No. 336,063; Aug. 22. Class 46.
Karsa, William J., doing business as Wm. J. Karsa & Company, New York, N. Y. Doilies, scarfs, table napkins, etc. Serial No. 335,508; Aug. 22. Class 42.
Keeley Brewing Company, Chicago, Ill. Malt beverages. Serial Nos. 339,462–3; Aug. 22. Class 48.
Keeley Brewing Company, Chicago, Ill. Malt beverages. Serial No. 339,564; Aug. 22. Class 48.
Kleen Chemical Company, Philadelphia, Pa. Water softener and cleaning compound. Serial No. 339,036; Aug. 22. Class 4.
Kolb, F. J., Cheese Co., Lena, Ill. Cheese. Serial No. 338,052; Aug. 22. Class 46.
Kress, S. H., & Co., New York, N. Y. Rubber crib sheets. Serial No. 338,250; Aug. 22. Class 50.
Launette Products Company. (See Hewitt Bros. Soap Company, The.)
Lee, H. D., Mercantile Co., The, Kansas City, Mo. Work clothing. Serial No. 339,607; Aug. 22. Class 39.
Lindsay Farm Bureau Fruit Assn., Lindsay, Calif. Fresh citrus fruits. Serial No. 321,111; Aug. 22. Class 46.
Liquid Veneer Corporation, Buffalo, N. Y. Polish for automobiles, pianos, furniture, etc. Serial No. 339,532; Aug. 22. Class 16.
Little Sisters Coats Inc., New York, N. Y. Children's coats. Serial No. 339,568; Aug. 22. Class 39.
Love, James, doing business as The Iokelp Company, San Diego, Calif. Dried sea-plant products. Serial No. 338,978; Aug. 22. Class 6.
Major Foods. (See Scotland, Beatrice L.)
Mar-Vel-Us Foods. (See Seidner, Otto.)
Melchior, Armstrong, Dessau Co. of Delaware, Inc., New York, N. Y. Replacements parts for refrigerators. Serial No. 338,981; Aug. 22. Class 31.
Mendlik, Othmar J., doing busines as Fi-Ba-So Products Co., Tyngsboro, Mass. Cleaning preparation for the hands. Serial No. 339,754; Aug. 22. Class 4.
Metzer, Benjamin, New York, N. Y. Detergent hand cleaner. Serial No. 338,986; Aug. 22. Class 4.
Meyer & Lange, Inc., New York, N. Y. Prepared mustard. Serial No. 339,158; Aug. 22. Class 46.
Min-T Company. (See Freeman, Roe S.)
Murray, Samuel E., doing business as Beaufix Laboratories, New York, N. Y. Nose and throat spray. Serial No. 335,605; Aug. 22. Class 6.
Naamloose Vennootschap Gevaert Photo-Producten (Société Anonyme Photo-Produits Gevaert), Oude-God near Antwerp, Belgium. Photographic chemicals. Serial No. 338,574; Aug. 22. Class 6.
National Sugar Refining Company of New Jersey, The, Jersey City, N. J., and New York, N. Y. Sugar. Serial No. 338,752; Aug. 22. Class 46.
Neatform Co., Inc., The, New York, N. Y. Brassières, girdles, and combinations. Serial No. 338,754; Aug. 22. Class 39.
New Jersey Brush Manufacturing Co., Inc., Newton, N. J. Brushes. Serial No. 336,333; Aug. 22. Class 20.
Nueva Fabrica De Hielo, S. A., Habana, Cuba. Malt beverages. Serial No. 337,086; Aug. 22. Class 48.
Oberwinder, J. Ferd., St. Louis, Mo. Preparation for the human foot. Serial No. 338,993; Aug. 22. Class 6.
Osen Milling Company, De Pere, Wis. Dairy feed, chick mash, scratch feed, etc. Serial No. 338,844; Aug. 22. Class 46.
Pakit Company. (See Saxe, Lucy J.)
Peerless Key Company, Inc., New York, N. Y. Typewriter keys, twirler rings, and shock absorbers. Serial No. 334,536; Aug. 22. Class 28.
Phi Alpha Theta, Greeley, Colo. Fraternity badges, lapel buttons, pins, etc. Serial No. 339,110; Aug. 22. Class 28.
Physicians Supply Company, Inc., York, Pa. Sedative and hypnotic medicinal elixir. Serial No. 339,644; Aug. 22. Class 6.
Planters Edible Oil Company, Suffolk, Va. Cooking and salad oil. Serial No. 339,570; Aug. 22. Class 46.
Potasas Ibericas S. A., Madrid, Spain. Manure fertilizers Serial No. 331,319; Aug. 22. Class 10.
Price Flavoring Extract Company, Chicago, Ill. Flavoring extracts. Serial No. 322,861; Aug. 22. Class 46.
Prieur, Alfred, doing business as Ch. & A. Prieur, Vertus, France. Wines and champagne. Serial No. 339,366; Aug. 22, 1933. Class 47.
Procter & Gamble Company, The, Cincinnati, Ohio. Vegetable shortening of semi-solid form. Serial No. 338,538; Aug. 22. Class 46.
Quillard-Bribes, Félix, & Co., Perles, Paris, France. Beauty creams, ointments, pharmaceutical products, etc. Serial No. 326,015; Aug. 22. Class 6.
Radbill Oil Co., Inc., Philadelphia, Pa. Lubricating oil. Serial No. 336,725; Aug. 22. Class 15.
Ray, George I., Charlotte, N. C. Lubricant. Serial No. 337,619; Aug. 22. Class 15.
Ritz Brewing Company, San Diego, Calif. Malt cereal beverage. Serial Nos. 339,791–3; Aug. 22. Class 48.
Roma Wine Company. (See Cella, Battista.)
Ross, Will, Inc., Milwaukee, Wis. Curtains, curtain materials, etc. Serial No. 335,425; Aug. 22. Class 42.
Sass, Stephen K., Chicago, Ill. Salve. Serial No. 338,503; Aug. 22. Class 6.
Saxe, Lucy J., doing business as Pakit Company, Baltimore, Md. Medicines. Serial No. 339,008; Aug. 22. Class 6.
Schmid, Julius, New York, N. Y. Prophylactic rubber and membraneous articles. Serial No. 339,766; Aug. 22. Class 44.
Scotland, Beatrice L., doing business as Major Foods, Joliet, Ill. Prepared fruit pectin. Serial No. 339,589; Aug. 22. Class 46.
Seidner, Otto, Incorporated, doing business as Mar-Vel-Us Foods, Westerly, R. I. Salad dressing. Serial No. 339,575; Aug. 22. Class 46.
Sherwood Distilling & Distributing Co., The, Baltimore, Md. Gin. Serial No. 339,880; Aug. 22. Class 49.
Shniderman, Abe, doing business as Flav-Oak Manufacturing Company, Kansas City, Mo. Charged chips for coloring and flavoring liquids. Serial No. 336,735; Aug. 22. Class 50.
Silex Company, The, Hartford, Conn. Electric coffee makers. Serial No. 339,504; Aug. 22. Class 21.
Slade, Harold K., Bannister, Mich. Liquid preparation having adhesive ingredients. Serial No. 339,208; Aug. 22. Class 6.
Smilowitz, F., & Co., New York, N. Y. Fur trimmings. Serial No. 339,285; Aug. 22. Class 40.
Societa Anonima Lucchese Olii e Vini, Lucca, Italy. Olive oil. Serial No. 320,011; Aug. 22. Class 46.
Société à Responsabilité Limitée Rodier, Paris, France. Velvet in the piece, cretonne and silk in the piece, etc. Serial No. 335,257; Aug. 22. Class 42.
Société à Responsabilité Limitée Rodier, Paris, France. Wearing apparel. Serial No. 335,258; Aug. 22. Class 39.
Société à Responsabilité Limitée, Rodier, Paris, France. Velvet, silk, and cretonne in the piece, etc. Serial No. 335,259; Aug. 22. Class 42.
Société à Responsabilité Limitée, Rodier, Paris, France. Wearing apparel. Serial No. 335,260; Aug. 22. Class 39.
Solarine Company, Baltimore, Md. Chlorine solution. Serial No. 338,438; Aug. 22. Class 6.
Soldine Corporation, Chicago, Ill. Adhesive compound. Serial No. 337,141; Aug. 22. Class 5.
Spooner, Inc., New York, N. Y. Body deodorants. Serial No. 338,342; Aug. 22. Class 6.
Stahl-Meyer, Inc., New York, N. Y. Pork sausage. Serial No. 337,993; Aug. 22. Class 46.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Paste for cleaning and polishing. Serial No. 338,947; Aug. 22. Class 4.
Standard-Coosa-Thatcher Company, Chattanooga, Tenn. Cotton thread. Serial No. 339,210; Aug. 22. Class 43.
Standard Oil Company of New Jersey, Wilmington, Del. Harness oil, leather oil and belt dressing. Serial No. 339,646; Aug. 22. Class 4.
Starkle, A. E., Company, Chicago, Ill. Ingredients to be added to milk for making frozen confections. Serial No. 338,469; Aug. 22. Class 46.
Stern, D. I., & C. H., Incorporated, New York, N. Y. Silk, cotton, etc., fabrics. Serial No. 337,762; Aug. 22. Class 42.
Texas Company, The, New York, N. Y. Naphthenic acids. Serial No. 330,556; Aug. 22. Class 6.
Texas Company, The, New York, N. Y. Paper towels and napkins. Serial No. 339,692; Aug. 22. Class 37.
Todd, Daisy, Beauty Preparations, New York, N. Y. Astringents, astringent cerates, bleach creams, etc. Serial No. 339,371; Aug. 22. Class 6.
Trabau Company, The. (See Traphagen, William J.)
Traphagen, William J., doing business as The Trabau Company, Philadelphia, Pa. Medicinal compound. Serial No. 337,713; Aug. 22. Class 6.
Trinity Laboratories, Inc., Austin, Tex. Permanent waving solutions, finger waving compound, brilliantine, etc. Serial No. 336,382; Aug. 22. Class 6.
United States Travelware Corporation, Fitchburg, Mass. Suitcases. Serial No. 339,615; Aug. 22. Class 3.
Van Vollenhoven's Bierbrouwerij N. V., Amsterdam, Netherlands. Malt beverages. Serial No. 339,510; Aug. 22. Class 48.
Vlannes, Nickolas P., Shreveport, La. Maltless beverage. Serial No. 339,215; Aug. 22. Class 45.
Wahl, Dr. Robert, doing business as Braumeister Publishing Co., Chicago, Ill. Publication. Serial No. 339,843; Aug. 22. Class 38.
Walker, Russell S., Duluth, Minn. Hot dish lifters. Serial No. 338,017; Aug. 22. Class 28.
Warwick Chemical Company. (West Warwick, R. I. Chemical materials. Serial No. 338,918; Aug. 22. Class 6.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Waverly Oil Works Company, Pittsburgh, Pa. Lubricating oils and greases. Serial No. 339,650; Aug. 22. Class 15.
Waverly Oil Works Company, Pittsburgh, Pa. Lubricating oils and greases. Serial No. 339,652; Aug. 22. Class 15.
Wanderman, Seymour S., doing business as Hayban Laboratories, New York, N. Y. Cough mixture. Serial No. 339,695; Aug. 22. Class 6.
Weisbrod & Hess Brewing Company, Philadelphia, Pa. Beer. Serial No. 339,653; Aug. 22. Class 48.
Weisbrod & Hess Brewing Company, Philadelphia, Pa. Malt beverages. Serial No. 339,654; Aug. 22. Class 48.
West Branch Flour Manufacturing Co., West Branch, Mich. Pancake flour. Serial No. 337,056; Aug. 22. Class 46.
West, Elisabeth, Chicago, Ill. Medicinal salve. Serial No. 339,088; Aug. 22. Class 6.
West End Brewing Co., The, Utica, N. Y. Malt beverages. Serial No. 339,655; Aug. 2. Class 48.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Microammeters. Serial No. 338,919; Aug. 22. Class 26.
Wiley, J. Elliott, doing business as The Amaxul Products Co., Philadelphia, Pa. Water softening and cleaning compounds. Serial No. 339,064; Aug. 22. Class 6.
Wilson, George S., Edinburgh, Scotland. Combination fork and spoon. Serial No. 337,404; Aug. 22. Class 28.
Wilson-Jones Company, Chicago, Ill. Punching machines. Serial No. 339,018; Aug. 22. Class 23.
Worembo Manufacturing Company, Lisbon Falls, Maine. Woolen fabrics. Serial Nos. 338,441–2; Aug. 22. Class 42.
Worthington, H. C., Imperial, Calif. Fresh fruits, vegetables, and melons. Serial No. 339,420; Aug. 22. Class 46.
Young, L. A., Company, The, Detroit, Mich. Golf clubs. Serial No. 339,847; Aug. 22. Class 22.
Youngstown Sheet & Tube Company, The, Youngstown, Ohio. Ferrous metal sheets, plates, tin plates, etc. Serial No. 322,381; Aug. 22. Class 14.
Zeiss, Carl, Jena, Germany. Objectives. Serial No. 326,840; Aug. 22. Class 26.
Zweifel, Alfred, Malaga-Kellereien A. G., Lensburg, Switzerland. Wine. Serial No. 334,698; Aug. 22. Class 47.

LIST OF REGISTRANTS OF TRADE-MARKS

Alber & Wickes, Inc., Boston, Mass. Periodical publications. 305,671; Aug. 22; Serial No. 334,174; published June 13, 1933. Class 38.
Allen, J. P., Medicine Co., by decree of distribution, to Charles W. Allen, doing business as J. P. Allen Medicine Co., St. Paul, Minn. Salves. 91,631; renewed May 20, 1933.
Aluminum Company of America, Pittsburgh, Pa. Headed screw machine products. 305,685; Aug. 22; Serial No. 333,310; published June 13, 1933. Class 13.
Alva Tape Mills, Philadelphia, Pa. Tapes, binding, braids, etc. 305,634; Aug. 22; Serial No. 335,986; published May 30, 1933. Class 40.
American Anode Inc., Akron, Ohio. Rubber gloves. 305,735; Aug. 22; Serial No. 335,386; published May 9, 1933. Class 39.
American Drug Prod. Co. (See Superior Laboratories.)
American Oil Chemists' Society, The, New Orleans, La., and Chicago, Ill. Magazine. 305,559; Aug. 22; Serial No. 337,208; published June 6, 1933. Class 38.
Arenberg-Plotkin Shoe Company, Scranton, Pa. Shoes. 305,769; Aug. 22; Serial No. 336,207; published May 30, 1933. Class 39.
Armand Company, The, Des Moines, Iowa. Face powder, cleaning cream, cold cream, etc. 345,547; Aug. 22; Serial No. 325,453; published June 6, 1933. Class 6.
Artistic Brassiere Co. Inc., New York, N. Y. Girdles, corsets, etc. 305,623; Aug. 22; Serial No. 336,488; published June 6, 1933. Class 39.
Atlantic Coast Fisheries Corporation of New York, New York, N. Y. Dog food. 305,526; Aug. 22; Serial No. 336,851; published June 6, 1933. Class 46.
Baltimore Salesbook Company, The, Baltimore, Md. Puzzle drawing books. 305,571; Aug. 22; Serial No. 337,064; published June 6, 1933. Class 22.
Bancroft-Walker Company, Boston and South Boston, Mass. Women's leather shoes. 305,741; Aug. 22; Serial No. 335,442; published May 30, 1933. Class 39.
Barrett Company, The. (See Warren Chemical & Manufacturing Company.)
Bayer Semesan Company, Inc., Wilmington, Del. General horticultural disinfectant. 305,724; Aug. 22; Serial No. 335,761; published May 30, 1933. Class 6.
Benz, Geo., & Sons, St. Paul, Minn. Wines. 305,572; Aug. 22; Serial No. 337,381; published June 6, 1933. Class 47.
Bereman, James H., doing business as The Stillman Company, Aurora, Ill. Medicinal applicators. 305,807; Aug. 22; Serial No. 336,107; published June 13, 1933. Class 44.
Bereman, James H., doing business as The Stillman Company, Aurora, Ill. Douche powder, medicated, antiseptic, and hygienic jelly, etc. 305,830; Aug. 22. Class 6.
Berkshire Knitting Mills, Wyomissing and Reading, Pa. Hosiery. 305,808–9; Aug. 22; Serial Nos. 336,108–9; published May 23, 1933. Class 39.
Berlin Glove Co., Berlin, Wis. Coats, breeches, and trousers, and jackets. 305,728; Aug. 22; Serial No. 335,270; published May 23, 1933. Class 39.
Bernstein, Samuel, Hair Company, Inc., Boston, Mass. Face creams, hair tonics, face lotions, etc. 305,732; Aug. 22; Serial No. 335,344; published June 6, 1933. Class 6.
Bersin, Daniel, doing business as Danbers Manufacturing Co., New York, N. Y. Interlinings and linings in the piece. 305,670; Aug. 22; Serial No. 334,206; published June 6, 1933. Class 42.
Beslin, Inc., New York, N. Y. Iodine solution. 305,538; Aug. 22; Serial No. 336,669; published June 13, 1933. Class 6.
Big Store Co., The, Cincinnati, Ohio. Men's clothing. 305,725; Aug. 22; Serial No. 335,764; published May 30, 1933. Class 39.
Blaisdell Pencil Company, Philadelphia, Pa. Lead pencils. 305,568; Aug. 22; Serial No. 337,011; published June 13, 1933. Class 37.
Block, Harry J., Ellensburg, Wash. Germicidal and antiseptic preparation. 305,556; Aug. 22; Serial No. 336,701; published June 13, 1933. Class 6.
Bloomingdale Bros., Inc., New York, N. Y. Ladies' hats. 305,673; Aug. 22; Serial No. 334,382; published May 16, 1933. Class 39.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics. 305,549; Aug. 22; Serial No. 335,495; published May 9, 1933. Class 42.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics. 305,667; Aug. 22; Serial No. 335,953; published May 30, 1933. Class 42.
Bob, H. D., Company, Inc., New York, N. Y. Collars, shirts and windbreakers. 305,530; Aug. 22; Serial No. 336,815; published May 30, 1933. Class 39.
Bond Stores, Incorporated, New York, N. Y. Suits, trousers, coats, etc. 305,592; Aug. 22; Serial No. 329,701; published Apr. 11, 1933. Class 39.
Boott Mills, Lowell, Mass. Curtains. 305,821; Aug. 22; Serial No. 336,171; published June 13, 1933. Class 42.
Botany Worsted Mills, Passaic, N. J. Textile fabrics. 305,633; Aug. 22; Serial No. 335,989; published May 30, 1933. Class 42.
Bowey's, Inc., Chicago, Ill. Chocolate-flavored syrup. 305,678; Aug. 22; Serial No. 334,596; published June 6, 1933. Class 46.
Boynton Furnace Co., New York, N. Y. Wood burning furnaces and stoves and parts thereof. 305,786; Aug. 22; Serial No. 336,071; published June 13, 1933. Class 34.
Braeutigam, Henry D., doing business as Mutual Service, Newark, N. J. Antiseptic liniments, perfumes, deodorant, etc. 305,757; Aug. 22; Serial No. 335,054; published May 30, 1933. Class 6.
Brown, Clarence S., & Company, Inc., New York, N. Y. Cotton fabrics. 305,681; Aug. 22; Serial No. 333,279; published May 30, 1933. Class 42.
Brown, G. F., Colorado Springs, Colo. Preparation for the treatment of tender gums. 305,754; Aug. 22; Serial No. 325,196; published June 6, 1933. Class 6.
Browne, E. T., Drug Co. Inc., New York, N. Y. Ointment and whitening cream. 305,601; Aug. 22; Serial No. 325,867; published June 13, 1933. Class 6.
Browne, E. T., Drug Co. Inc., New York, N. Y. Ointment. 305,635; Aug. 22; Serial No. 325,865; published June 13, 1933. Class 6.
Bryan, W. G., and Associates, New York, N. Y. Periodical publication. 305,606; Aug. 22; Serial No. 337,457; published June 13, 1933. Class 38.
Buccolo, Peter, New York, N. Y. Burlap canvas and fabrics of jute, hemp, etc. 305,770; Aug. 22; Serial No. 336,209; published May 30, 1933. Class 42.
Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. 305,684; Aug. 22; Serial No. 333,502; published June 6, 1933. Class 11.
Candy Products Corporation, Owosso, Mich. Candies. 305,655; Aug. 22; Serial No. 332,988; published June 6, 1933. Class 46.
Caplan, Sidney, doing business as Sid's Remedy Co., Chicago, Ill. Foot powder. 305,680; Aug. 22; Serial No. 334,523; published June 6, 1933. Class 6.
Casco Products Corporation, Bridgeport, Conn. Splash guards for motor vehicles. 305,699; Aug. 22; Serial No. 326,415; published June 13, 1933. Class 19.

Celanese Corporation of America, New York, N. Y. Fabrics of cellulose. 305,742; Aug. 22; Serial No. 335,446; published May 9, 1933. Class 42.

Central Coal Co. Inc., New York, N. Y. Coal. 305,842; Aug. 22. Class 1.

Cerveceria Cuauhtemoc, S. A., Monterrey, Mexico. Beer. 305,668; Aug. 22; Serial No. 334,045; published June 6, 1933. Class 48.

Cerveceria Cuauhtemoc, S. A., Monterrey, Mexico. Malt beverage. 305,697; Aug. 22; Serial No. 334,046; published June 6, 1933. Class 48.

Chamber of Commerce of the United States of America, to Chamber of Commerce of the United States of America, Washington, D. C., successor. Periodical. 93,334; renewed Sept. 9, 1933.

Champion Fibre Company, The, Canton, N. C. Sodium resinate and emulsified binders for coal dust. 305,690; Aug. 22; Serial No. 333,671; published May 30, 1933. Class 6.

Champion Hardware Company, The, Geneva, Ohio. Toys. 305,615; Aug. 22; Serial No. 330,449; published June 6, 1933. Class 22.

Chemical Foundation, Incorporated, The. (See Schmidt, Johann, assignor.)

Chicopee Manufacturing Corporation, New Brunswick, N. J. Soft gauze. 305,711; Aug. 22; Serial No. 323,108; published May 16, 1933. Class 42.

Chrome Alloys Manufacturing Co., Oakland, Calif. Metals and bushings. 305,612; Aug. 22; Serial No. 330,890; published June 6, 1933. Class 14.

Coezene Company, The, Cleveland, Ohio. Catamenial receptacle. 305,805; Aug. 22; Serial No. 336,033; published June 6, 1933. Class 44.

Collins & Aikman Corporation, Philadelphia, Pa. Pile fabrics. 305,632; Aug. 22; Serial No. 335,992; published May 30, 1933. Class 42.

Compañia Mata Unión de Bodegas Andaluzas S. A., Malaga, Spain. Wines. 305,766; Aug. 22; Serial No. 336,216; published June 13, 1933. Class 47.

Copper & Brass Research Association, New York, N. Y. Copper and copper alloys. 305,774; Aug. 22; Serial No. 336,343; published June 13, 1933. Class 14.

Corotneff, Nicholas, assignor to Genung and Leeney, Inc., New York, N. Y. Perfumes, toilet waters, shampoos, etc. 305,822; Aug. 22; Serial No. 336,175; published May 30, 1933. Class 6.

Condurier, Fructus & Descher, Lyon, France. Pile fabrics in the piece. 305,793; Aug. 22; Serial No. 334,598; published May 16, 1933. Class 42.

Courtlands, Limited, London, England. Thread and yarn. 94,607; renewed Dec. 23, 1933.

Crandall Engineering Company, The, Cambridge, Mass. Hydraulic cement. 305,618; Aug. 22; Serial No. 336,561; published June 13, 1933. Class 12.

Crompton-Richmond Company, Inc., New York, N. Y. Pile fabrics. 305,557; Aug. 22; Serial No. 336,744. Class 42.

Curtiss Aerocar Company, Inc., Opalocka, Fla. Trailers. 305,527; Aug. 22; Serial No. 336,819; published June 13, 1933. Class 19.

Cushman, Robert A., doing business as Koberal Products Company, Lowell, Mass. Atomizers. 305,622; Aug. 22; Serial No. 336,562; published June 13, 1933. Class 44.

Danbers Manufacturing Co. (See Bersin, Daniel.)

Daniels, Claude H., Boston, Mass. Boots, shoes, and slippers. 305,590; Aug. 22; Serial No. 329,503; published May 30, 1933. Class 39.

Daniels, Claude H., Boston, Mass. Boots, shoes, and slippers. 305,595; Aug. 22; Serial No. 329,502; published May 30, 1933. Class 39.

Daniels, Claude H., Boston, Mass. Boots, shoes, and slippers. 305,617; Aug. 22; Serial No. 329,769; published May 30, 1933. Class 39.

David, John, New York, N. Y. Men's coats. 305,573; Aug. 22; Serial No. 337,335; published June 6, 1933. Class 39.

Davis Company, The, Chicago, Ill. Dresses. 305,849; Aug. 22. Class 39.

Davis Laboratories. (See Stahl, Herbert D.)

De Garcy Co. Inc., New York, N. Y. Slips, gowns, and chemises, etc. 305,743; Aug. 22; Serial No. 335,590; published May 30, 1933. Class 39.

Delany Chemical Company, Philadelphia, Pa. Pickling powder for use in the treatment of carbon steel. 305,767; Aug. 22; Serial No. 336,217; published May 30, 1933. Class 6.

Delany Chemical Company, Philadelphia, Pa. Pickling powder for use in the treatment of chromium nickel alloy steel. 305,771; Aug. 22; Serial No. 336,215; published May 30, 1933. Class 6.

Distillers Corporation Limited, Montreal, Quebec, Canada. Potable spirits, whisky, and liquors. 305,787; Aug. 22; Serial No. 334,666; published June 6, 1933. Class 49.

Dog Rite Products, Inc., Poughkeepsie, N. Y. Medicinal preparations for use in treating animals. 305,722; Aug. 22; Serial No. 335,773; published June 6, 1933. Class 6.

Dumari Textile Co., Inc., New York, N. Y. Apparel. 305,676; Aug. 22; Serial No. 334,490; published May 23, 1933. Class 39.

Dunwoodie, Ezl., Co., Philadelphia, Pa. Peat moss, charcoal, and crushed oyster shells, etc. 305,616; Aug. 22; Serial No. 330,611; published Apr. 11, 1933. Class 1.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Paints, paste paints, paint fillers, etc. 305,531; Aug. 22; Serial No. 336,934; published June 6, 1933. Class 16.

Economics Laboratory, Inc., St. Paul, Minn. Wax. 305,783; Aug. 22; Serial No. 336,352; published June 13, 1933. Class 16.

Edelman, John, & Sons, New York, N. Y. Coats and jackets. 305,600; Aug. 22; Serial No. 328,047; published May 23, 1933. Class 39.

Eisenberg & Sons, Inc., Chicago, Ill. Women's, misses', and juniors' clothing. 305,729; Aug. 22; Serial No. 335,395; published May 30, 1933. Class 39.

Electroloy Company, Inc., Plainfield, N. J., and New York, N. Y. Electrode material for welding and dies. 305,605; Aug. 22; Serial No. 337,463; published June 13, 1933. Class 14.

Emken Chemical Co., New York, to D. D. Williamson & Company, Inc., Long Island City, N. Y., successor. Beer-coloring. 94,518; renewed Dec. 9, 1933.

English Needle & Fishing Tackle Co., Limited, The, Studley, England. Needles, pins, etc. 305,665; Aug. 22; Serial No. 332,449; published May 16, 1933. Class 40.

Enza-Vita Laboratories, Inc., The Toledo, Ohio. Fractional ration or for ration comprising treated vegetation for poultry, live stock, and human beings. 305,644; Aug. 22; Serial No. 331,458; published June 6, 1933. Class 46.

Essex Rubber Company, Trenton, N. J. Shoe soles. 305,532; Aug. 22; Serial No. 336,938; published June 13, 1933. Class 39.

Factor, Max, & Co. Inc., Los Angeles, Calif. Lotion, rouge, cold cream, etc. 305,716; Aug. 22; Serial No. 318,826; published Nov. 24, 1931. Class 6.

Feminine Products, Inc., New York, N. Y. Deodorants and odor deterrents. 305,784; Aug. 22; Serial No. 334,746; published June 6, 1933. Class 6.

Finchley Inc., New York, N. Y. Pants, coats, and vests. 305,651; Aug. 22; Serial No. 335,933; published May 23, 1933. Class 39.

Firestone Tire & Rubber Company, The, Akron, Ohio. Garments. 305,593; Aug. 22; Serial No. 329,284; published May 30, 1933. Class 39.

Firmin Provincial, Woonsocket, R. I. Safety gas vents for brick furnaces. 305,529; Aug. 22; Serial No. 336,939; published June 13, 1933. Class 34.

Florsheim Shoe Company, The, Chicago, Ill. Shoes. 305,602; Aug. 22; Serial No. 326,210; published June 14, 1932. Class 39.

Fluegelman, N., & Co., Inc., New York, N. Y. Dresses, underwear, waists, etc. 305,540; Aug. 22; Serial No. 336,642; published May 30, 1933. Class 39.

Foderingham, Allan F., doing business as La Fodham's Products Co., Brooklyn, N. Y. Preparation for treatment of the hair. 305,551; Aug. 22; Serial No. 336,760; published June 13, 1933. Class 6.

Franklin, The O. M., Blackleg Serum Company, Denver, Colo. Branding liquid. 305,772; Aug. 22; Serial No. 336,320; published June 6, 1933. Class 6.

Fraser, Malcolm, & Co. (See Wine & Spirit Vaults Limited.)

Freeman Shoe Corporation, Beloit, Wis. Boots and shoes. 305,659; Aug. 22; Serial No. 335,637; published May 30, 1933. Class 39.

Fresenius Company, The, New Haven, Conn. Malt beverages and liquors. 305,610; Aug. 22; Serial No. 337,557; published June 13, 1933. Class 48.

Fried, Lazarus, & Sons Inc., New York, N. Y. Shoes. 305,817; Aug. 22; Serial No. 336,187; published May 30, 1933. Class 39.

Fruit Industries, Ltd., Los Angeles, Calif., and New York, N. Y. Wines. 305,609; Aug. 22; Serial No. 337,558; published June 13, 1933. Class 47.

Garcia Grande Cigars, Incorporated, New York, N. Y. Cigars. 305,603; Aug. 22; Serial No. 337,425; published June 13, 1933. Class 17.

Garnett, G., & Sons, Limited, Apperley Bridge, near Bradford, England. Woolen and worsted piece goods. 305,806; Aug. 22; Serial No. 336,086; published June 13, 1933. Class 42.

Gautier Frerès, Aigre, France. Distilled liquors. 305,523; Aug. 22; Serial No. 336,608; published May 23, 1933. Class 49.

General Mills, Inc., Minneapolis, Minn. Baking powder. 305,810; Aug. 22; Serial No. 336,146; published June 13, 1933. Class 6.

Genung and Leeney, Inc. (See Corotneff, Nicholas.)

Germania Tea Company, Minneapolis, Minn. Medicines. 305,829; Aug. 22. Class 6.

Gernsback, Hugo, New York, N. Y. Publication. 305,558; Aug. 22; Serial No. 337,186; published June 6, 1933. Class 38.

Geuting, A. H., Company, Philadelphia, Pa. Boots and shoes. 305,753; Aug. 22; Serial No. 325,822; published May 23, 1933. Class 39.

Gibson, Thomas N., Indianapolis, Ind. Tank water softeners. 305,709; Aug. 22; Serial No. 336,940; published June 6, 1933. Class 13.

Gimbel Brothers, Inc., New York, N. Y. Boys' clothing and furnishings. 305,836; Aug. 22. Class 39.

Gimbel Brothers, Inc., New York, N. Y. Men's clothing and furnishings. 305,840; Aug. 22. Class 39.

Gitelson, Moses L., doing business as Nehemiah Gitelson & Sons, New York, N. Y. Cotton piece goods. 305,553; Aug. 22; Serial No. 335,593; published May 16, 1933. Class 42.

Godissart's Parfum Classique Francais Inc. Ltd., Wilmington, Del., and Los Angeles, Calif. Perfume. 305,654; Aug. 22; Serial No. 325,521; published June 21, 1932. Class 6.

Godman, H. C., Company, The, Columbus, Ohio. Shoes. 305,750; Aug. 22; Serial No. 323,401; published May 30, 1933. Class 39.

Goodman, H., & Sons, Inc., New York, N. Y. Hair crimpers, combs, barrettes, and non-electric curlers. 305,761; Aug. 22; Serial No. 335,234; published May 23, 1933. Class 40.

Gortchacow, Princess Helene, Naples, Italy. Skin pomatum. 305,778; Aug. 22; Serial No. 336,300; published May 30, 1933. Class 6.

Gossard, H. W., Co., The, Chicago, Ill. Girdles, corsets, and brassières. 305,823; Aug. 22; Serial No. 336,181; published May 30, 1933. Class 39.

Gossard, H. W., Co., The, Chicago, Ill. Elastic webbing. 305,824; Aug. 22; Serial No. 336,182; published May 30, 1933. Class 42.

Goulard & Olena Inc., New York, N. Y. Fertilizers. 305,758; Aug. 22; Serial No. 335,059; published June 6, 1933. Class 10.

Grange Boy Metal Products Company, Batavia, N. Y. Replacement clamps for jars. 305,792; Aug. 22; Serial No. 336,115; published June 6, 1933. Class 13.

Greenhaus, Charles, doing business as N. Y. B. Co., New York, N. Y. Buttons and ingredients which are used for making. 305,698; Aug. 22; Serial No. 334,009; published June 13, 1933. Class 40.

Greenhill & Daniel, Inc., Brooklyn, N. Y. Brassières, corsets, girdles, and hosiery. 305,818; Aug. 22; Serial No. 336,118; published June 6, 1933. Class 39.

Greenview Manufacturing Company, Chicago, Ill. Window cleaners and parts thereof. 305,534; Aug. 22; Serial No. 336,903; published June 13, 1933. Class 29.

Griggs, Cooper & Co., doing business as Sanitary Food Mfg. Co., St. Paul, Minn. Ammonia and bluing. 305,539; Aug. 22; Serial No. 336,677; published June 13, 1933. Class 6.

Grossman, Julius, Inc., Brooklyn, N. Y. Shoes. 305,845; Aug. 22. Class 39.

Gunther Brewing Co., Inc., Baltimore, Md. Beer. 305,581; Aug. 22; Serial No. 337,335; published June 6, 1933. Class 48.

H. & L. Products Company, Linden, N. J. Water softening preparation having cleaning properties. 305,811; Aug. 22; Serial No. 336,157; published May 30, 1933. Class 6.

Hall Hardware Company, Minneapolis, Minn. Paints and varnishes. 305,819; Aug. 22; Serial No. 336,119; published June 6, 1933. Class 16.

Hart, Hugh D., doing business as Herba-Vita Company, Camden, N. J. Tonic laxative medicine. 305,629; Aug. 22; Serial No. 325,711; published July 26, 1932. Class 6.

Hat Corporation of America, Norwalk, Conn. Hats. 305,702; Aug. 22; Serial No. 335,675; published May 16, 1933. Class 39.

Hat Corporation of America, Norwalk, Conn. Hats. 305,708; Aug. 22; Serial No. 335,674; published May 16, 1933. Class 39.

Hearne Brothers, Detroit, Mich. Periodical street guides and maps. 305,744; Aug. 22; Serial No. 335,856; published June 13, 1933. Class 38.

Helwith, Alfred L., & Co., Inc., New York, N. Y. Men's cotton shirtings and cotton textile fabrics. 305,755; Aug. 22; Serial No. 335,319; published May 9, 1933. Class 42.

Henkel Company, The, Fremont, Ohio. Tweezers, forceps, pliers, etc. 305,839; Aug. 22. Class 44.

Herba-Vita Company. (See Hart, Hugh D.)

Her Majesty Corset Company, Incorporated, New Haven, Conn. Foundation garments. 305,541; Aug. 22; Serial No. 336,647; published June 6, 1933. Class 39.

Hill, Peter A., Philadelphia, Pa. Shoes. 305,696; Aug. 22; Serial No. 334,057; published June 13, 1933. Class 39.

Hires, Charles E., Company, The, Philadelphia, Pa. Root beer concentrate and syrup. 305,639; Aug. 22; Serial No. 332,584; published June 6, 1933. Class 45.

Hires, Charles E., Company, Philadelphia, Pa. Root beer concentrate and syrup. 305,664; Aug. 22; Serial No. 332,588; published June 6, 1933. Class 45.

Hoffmann-La Roche, Inc., Nutley, N. J. Analgesic preparation for pain, etc. 305,528; Aug. 22; Serial No. 336,827; published June 13, 1933. Class 6.

Hopkins, J. L., & Co., New York, N. Y. Flea and lice powder. 305,779; Aug. 22; Serial No. 336,353; published June 6, 1933. Class 6.

Houde Engineering Corporation, Buffalo, N. Y. Shock absorber fluid. 305,688-9; Aug. 22; Serial Nos. 333,515-6; published June 13, 1933. Class 6.

Hutchins' Chemical Co., Washington, D. C. Preparation for the treatment of skin lesions. 305,717; Aug. 22; Serial No. 321,684; published Jan. 12, 1932. Class 6.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Self-hardening, acid and water-proof construction cements. 305,707; Aug. 22; Serial No. 335,669; published June 13, 1933. Class 12.

Impervious Products, Inc., Cleveland, Ohio. Waterproofing and oil proofing preparation. 305,647; Aug. 22; Serial No. 336,589; published June 13, 1933. Class 6.

Inlander-Steindler Paper Company, Chicago, Ill. Toilet paper. 305,683; Aug. 22; Serial No. 333,036; published Mar. 21, 1933. Class 37.

Inter-Collegiate Press, Kansas City, Mo. Periodicals. 305,712; Aug. 22; Serial No. 336,986; published June 6, 1933. Class 38.

Inter-Collegiate Press., Kansas City, Mo. Greeting and enclosure cards and printed invitations. 305,736; Aug. 22. Serial No. 335,450; published June 6, 1933. Class 38.

International Shoe Co., St. Louis, Mo. Boots and shoes. 305,703; Aug. 22; Serial No. 335,677; published May 16, 1933. Class 39.

Irene Cosmetic Shoppe, New York, N. Y. Face powder, perfumes, hair preparations, etc. 305,837; Aug. 22. Class 6.

Jacobs Oregon City Woolen Mills. (See Oregon City Manufacturing Company.)

Johnson Oil Refining Company, Chicago, Ill. Insecticide. 305,692; Aug. 22; Serial No. 333,556; published May 30, 1933. Class 6.

Johnson, S. C., & Son, Inc., Racine, Wis. Wax and lacquer. 305,536; Aug. 22; Serial No. 336,872; published June 6, 1933. Class 16.

Kamm & Schellinger Brewing Co., The, assignor to Kamm & Schellinger Company, Inc., Mishawaka, Ind. Beer, ale, porter, etc. 40,554; renewed June 9, 1933.

Kats Underwear Co., Honesdale, Pa. Dresses, pajamas, underwear, etc. 305,704; Aug. 22; Serial No. 335,679; published May 16, 1933. Class 39.

Katz, William, St. Louis, Mo. Hats. 305,846; Aug. 22. Class 39.

Kaufmann Bros. & Bondy, Inc., West New York, N. J. Pipes and cigar and cigarette holders. 305,705; Aug. 22; Serial No. 335,680; published June 13, 1933. Class 8.

Kaufmann Bros. & Bondy, Inc., West New York, N. J. Pipes, cigar and cigarette holders, tobacco pouches, etc. 305,718; Aug. 22; Serial No. 335,681; published June 13, 1933. Class 8.

Kaumagraph Company, New York, N. Y. Ink. 305,585; Aug. 22; Serial No. 337,300; published June 6, 1933. Class 11.

Kenny, C. D., Co., Baltimore, Md. Coffee. 305,653; Aug. 22; Serial No. 336,505; published June 6, 1933. Class 46.

Kimball, C. M., Co., Everett, Mass. Washing fluid—disinfectant-bleach. 305,695; Aug. 22; Serial No. 333,734; published June 6, 1933. Class 6.

King Features Syndicate, Inc. (See Star Company, assignor.)

Kinney, J. R., Co., Inc., New York, N. Y. Boots, shoes, gaiters, and spats. 305,794; Aug. 22; Serial No. 334,800; published May 23, 1933. Class 39.

Kitchenette Food Products Company. (See Schleicher, Theodore H.)

Kleinert, I. B., Rubber Company, New York, N. Y. Baby pants of rubber. 305,715; Aug. 22; Serial No. 312,807; published May 30, 1933. Class 39.

Koberal Products Company. (See Cushman, Robert A.)

Kops Brothers, Inc., New York, N. Y. Bust confining garments. 305,694; Aug. 22; Serial No. 333,937; published May 16, 1933. Class 39.

Kress, S. H., & Co., New York, N. Y. Candies. 305,588; Aug. 22; Serial No. 329,861; published June 6, 1933. Class 46.

Krick, Leonard B., doing business as Mador, Inc., Chicago, Ill. Perfumes, face powder, creams, etc. 305,848; Aug. 22. Class 6.

La Fodham's Products Co. (See Foderingham, Allan F.)

La France Workshop Company, Clifton Heights, Pa. Picture puzzles. 305,624; Aug. 22; Serial No. 336,485; published June 6, 1933. Class 22.

Lancaster & Bull, London, England. Whisky and rum. 305,614; Aug. 22; Serial No. 337,612; published June 13, 1933. Class 49.

Landritt Limited, Los Angeles, Calif. Digestive powder. 305,626; Aug. 22; Serial No. 336,438; published June 6, 1933. Class 6.

Laura Hair Novelty Co. (See Modish Specialties, Inc.)

Lederle Laboratories, Inc., New York, N. Y. Pharmaceutical preparation and decongestant. 305,524; Aug. 22; Serial No. 336,829; published June 13, 1933. Class 6.

Lee, H. D., Mercantile Co., The, Kansas City, Mo. Work clothing. 305,820; Aug. 22; Serial No. 336,128; published June 6, 1933. Class 39.

Lewel Mfg. Co. Inc., New York, N. Y. Step-in girdles. 305,555; Aug. 22; Serial No. 336,685; published June 13, 1933. Class 39.

Lily Mill and Power Company, Shelby, N. C. Sewing thread. 305,781; Aug. 22; Serial No. 336,396; published May 30, 1933. Class 43.

Lone Star Cement Company, Indiana, Incorporated, Indianapolis, Ind. Portland cement. 305,745; Aug. 22; Serial No. 335,422; published June 13, 1933. Class 12.

Lorraine Manufacturing Company, Pawtucket and Westerly, R. I., and New York, N. Y. Cotton dress and piece goods. 305,768; Aug. 22; Serial No. 336,223; published May 30, 1933. Class 42.
Love, Joseph, Inc., New York, N. Y. Children's dresses and top coats. 305,542; Aug. 22; Serial No. 336,654; published May 30, 1933. Class 39.
Love, Joseph, Inc., New York, N. Y. Children's dresses and top coats. 305,686; Aug. 22; Serial No. 333,294; published June 6, 1933. Class 39.
Lowe Brothers Company, The, Dayton, Ohio. Paints, varnishes, enamels, etc. 305,662; Aug. 22; Serial No. 332,128; published June 13, 1933. Class 16.
Ludwig Baumann & Company, New York, N. Y. Textile rugs. 305,638; Aug. 22; Serial No. 335,952; published May 30, 1933. Class 42.
Lui's Patent Hairpin Co., Napa, Calif. Finger wave pins. 305,598; Aug. 22; Serial No. 329,276; published May 16, 1933. Class 40.
Lustberg, Nast & Co. Inc., New York, N. Y. Raincoats. 305,661; Aug. 22; Serial No. 332,306; published May 30, 1933. Class 39.
M. G. Car Company Limited, The, Abingdon, England. Automobiles and structural parts thereof. 305,646; Aug. 22; Serial No. 335,919; published June 6, 1933. Class 19.
Mack, M. J., Textile Corp., New York, N. Y. Cotton goods. 305,733; Aug. 22; Serial No. 335,362; published May 9, 1933. Class 42.
Mackenzie, Kenneth, Limited, Stornoway, Isle-of-Lewis and Harris, Scotland. Tweeds. 305,797; Aug. 22; Serial No. 334,875; published May 30, 1933. Class 42.
Macnair-Dorland Company, New York, N. Y. Monthly magazine. 305,564; Aug. 22; Serial No. 337,124; published June 13, 1933. Class 38.
Mador, Inc. (See Krick, Leonard B.)
Magazine Guild, Inc., The, New York, N. Y. Musical magazine. 307,776; Aug. 22; Serial No. 336,291; published June 13, 1933. Class 38.
Magicap Manufacturing Company. (See Schwartz, Leo A.)
Makransky, S., and Sons, Inc., Philadelphia, Pa. Suits, overcoats, and topcoats. 305,762; Aug. 22; Serial No. 336,224; published May 30, 1933. Class 39.
Mallory Hat Company, The, Danbury, Conn. Hats and caps. 305,835; Aug. 22. Class 39.
Mandleberg, J., & Company Limited, Manchester, England. Showerproof textile fabrics. 305,657; Aug. 22; Serial No. 332,591; published May 16, 1933. Class 42.
Manhattan Shirt Co., The, New York, N. Y. Underwear. 305,643; Aug. 22; Serial No. 336,569; published May 30, 1933. Class 39.
Marcus & Wiesen Inc., New York, N. Y. Girdles and garter belts, etc. 305,749; Aug. 22; Serial No. 323,751; published June 14, 1932. Class 39.
Margert Paper Company, Philadelphia, Pa. Toilet tissue. 305,782; Aug. 22; Serial No. 336,397; published June 13, 1933. Class 37.
Marks, Walter K., New York, N. Y. Ladies' hats. 305,550; Aug. 22; Serial No. 335,565; published May 16, 1933. Class 39.
Martin, J. B., Company, Norwich, Conn. Velvet. 305,751; Aug. 22; Serial No. 335,069; published May 9, 1933. Class 42.
Martinelli, Joseph J., San Francisco, Calif. Cold and face cream and skin lotion. 305,658; Aug. 22; Serial No. 331,901; published May 30, 1933. Class 6.
McIntyre, Jacob E., doing business as The Tonee Company, Pittsburgh, Pa. Face lotion. 305,627; Aug. 22; Serial No. 336,440; published June 6, 1933. Class 6.
McKenna, John F., Los Angeles, Calif. Concentrated food for dogs, cats, and foxes. 305,777; Aug. 22; Serial No. 336,292; published June 6, 1933. Class 46.
McQuiddy Printing Co., Nashville, Tenn. Periodical. 305,570; Aug. 22; Serial No. 337,076; published June 13, 1933. Class 38.
Merchants Service Corporation, Chicago, Ill. Canned fruits and vegetables, spices, cocoa, etc. 305,700; Aug. 22; Serial No. 335,871; published June 6, 1933. Class 46.
Meriden Gravure Co., Meriden, Conn. Pictures, illustrations, display cards, etc. 305,544; Aug. 22; Serial No. 333,637; published June 6, 1933. Class 38.
Milson Company, The, Cincinnati, Ohio. Perfume, toilet water, face powder, etc. 305,796; Aug. 22; Serial No. 334,854; published June 6, 1933. Class 6.
Mission Dry Corporation, Ltd., Los Angeles, Calif. Wines. 305,562; Aug. 22; Serial No. 337,133; published June 13, 1933. Class 47.
Mission Dry Corporation, Ltd., Los Angeles, Calif. Wines. 305,565; Aug. 22; Serial No. 337,131; published June 13, 1933. Class 47.
Mitchell, John L., Waukegan, Ill. Card game and chart for same. 305,608; Aug. 22; Serial No. 337,569; published June 13, 1933. Class 22.
Mock, Judson, Voehringer Co., Inc., Long Island City, N. Y. Hosiery. 305,698; Aug. 22; Serial No. 335,913; published May 23, 1933. Class 39.
Modish Specialties, Inc., assignor to Charles K. Thau, doing business as Laura Hair Novelty Co., New York, N. Y. Combs, barrettes, switches, wigs, etc. 305,833; Aug. 22. Class 40.
Monica, Joseph D., Brooklyn, N. Y. Champagne. 305,587; Aug. 22; Serial No. 337,263; published June 6, 1933. Class 47.
Monumental Perfect Brew Co., Baltimore, Md. Malt beverages. 305,607; Aug. 22; Serial No. 337,436; published June 13, 1933. Class 48.
Moran Shoe Company, Inc., The, Carlyle, Ill. Shoes. 305,669; Aug. 22; Serial No. 334,225; published June 13, 1933. Class 39.
Mor-Pak Preserving Corporation, Stockton, Calif. Canned fruits. 305,832; Aug. 22. Class 46.
Mutual Service. (See Braeutigam, Henry D.)
N. Y. B. Co. (See Greenhaus, Charles.)
Napa Glove Company. (See Snow, Fred.)
National Acme Co., The, Cleveland, Ohio. Metal working machines and tools. 305,682; Aug. 22; Serial No. 333,077; published May 30, 1933. Class 23.
National Silk Co., Inc., The, South Coventry, Conn. Threads, yarns, and novelty yarns. 305,591; Aug. 22; Serial No. 329,645; published May 23, 1933. Class 43.
Newton Washer Co. (See One Minute Washer Company.)
Niagara Overall & Pants Co., to Niagara Apparel Co. Inc., Buffalo, N. Y., successor. Overalls, trousers, and shirts. 93,894; renewed Oct. 21, 1933.
Nicholson, J. & W., & Co. Limited, London, England. Whisky and other potable distilled liquors. 305,798; Aug. 22; Serial No. 336,048; published June 13, 1933. Class 49.
Nicholson, J. & W., & Co. Limited, doing business as J. S. Smith, Druce & Co. Ltd., London, England. Gin and other potable distilled liquors. 305,799; Aug. 22; Serial No. 336,049; published June 13, 1933. Class 49.
North End Paper Co., Fulton, N. Y. Bathroom tissue paper. 305,582; Aug. 22; Serial No. 337,307; published June 6, 1933. Class 37.
Nova Chemical Corporation, New York, N. Y. Dyes and oils or chemical preparations used as dye assistants. 305,701; Aug. 22; Serial No. 335,874; published June 6, 1933. Class 6.
Noxon Chemical Products Co. Inc., Newark, N. J. Finishes for floors, furniture surfaces. 305,713; Aug. 22; Serial No. 336,956; published June 13, 1933. Class 16.
Olgon Chemical Co. (See Peterson, Edward L.)
Olympia Knitting Mills, Inc., Olympia, Wash. Swimming trunks. 305,569; Aug. 22; Serial No. 337,088; published June 6, 1933. Class 39.
One Minute Washer Company, doing business as Newton Washer Co., Newton, Iowa. Laundry washing machines. 305,578; Aug. 22; Serial No. 337,350; published June 13, 1933. Class 24.
Oregon City Manufacturing Company, doing business as Jacobs Oregon City Woolen Mills, Oregon City, Oreg. Woolen piece goods. 305,723; Aug. 22; Serial No. 335,831; published May 30, 1933. Class 42.
Osmon, Theodore, doing business as Stamford Drug Company, Stamford, Conn. Maltless flavors and extracts. 305,628; Aug. 22; Serial No. 336,451; published June 6, 1933. Class 45.
Oxygen Medicine Co., The. (See Selleck, Frank B.)
Palay, S. T., & Co., Inc., New York, N. Y. Rayon textile material in the piece. 305,790; Aug. 22; Serial No. 324,969; published Apr. 19, 1932. Class 42.
Palay, S. T., & Co., Inc., New York, N. Y. Rayon taffeta. 305,791; Aug. 22; Serial No. 324,970; published Apr. 19, 1932. Class 42.
Pall Mall Lace & Embroidery Works, Inc., The, New York, N. Y. Gloves. 305,674; Aug. 22; Serial No. 334,368; published May 23, 1933. Class 39.
Parke, Davis & Company, Detroit, Mich. Antiseptic and germicide. 305,545; Aug. 22; Serial No. 336,622; published June 13, 1933. Class 6.
Parker Pen Company, The, Janesville, Wis. Fountain pens, mechanical pencils, and desk sets. 305,672; Aug. 22; Serial No. 334,466; published June 13, 1933. Class 37.
Partridge, Charles S., New York, N. Y. Column pertaining to the weather for periodical publications. 305,584; Aug. 22; Serial No. 337,265; published June 6, 1933. Class 38.
Patons & Baldwins, Limited, Halifax, England. Yarns. 305,567; Aug. 22; Serial No. 337,102; published June 6, 1933. Class 43.
Paul & Russell, Inc., Westmont, N. J. Cast stone for mausoleums, monuments, porch steps, etc. 305,660; Aug. 22; Serial No. 335,623; published June 13, 1933. Class 12.
Pellisson Pere & Cie., Cognac, France. Cognac brandy. 305,583; Aug. 22; Serial No. 337,308; published June 6, 1933. Class 49.
Perkins, Charles, Vancouver, British Columbia, Canada. Disinfectant. 305,666; Aug. 22; Serial No. 332,394; published May 30, 1933. Class 6.
Peterson, Edward L., doing business as Olgon Chemical Co., Chicago, Ill. Preparation for use as a disinfectant, deodorant, etc. 305,500; Aug. 22; Serial No. 336,050; published May 30, 1933. Class 6.
Phillips Petroleum Company, Bartlesville, Okla. Radiator cleaner, radiator stop leak and anti-freeze. 305,656; Aug. 22; Serial No. 332,854; published May 30, 1933. Class 6.
Phillips Petroleum Company, Bartlesville, Okla. Insecticide. 305,763; Aug. 22; Serial No. 336,230; published May 30, 1933. Class 6.
Pilot Bread Sales Co. (See Skinner, Dale B.)
Pioneer Health Products. (See Steiner, John C.)

Pool Manufacturing Company, Sherman, Tex. Overalls and play suits for children. 305,642; Aug. 22; Serial No. 335,970; published May 30, 1933. Class 39.
Progressive Knitted Rayon Fabric Mills, Inc., Brooklyn, N. Y. Fabrics. 306,826; Aug. 22. Class 42.
Puritan Soap Company, Rochester, N. Y. Brake fluid. 305,721; Aug. 22; Serial No. 335,738; published May 30, 1933. Class 6.
Pyrene Manufacturing Company, Newark, N. J. Fire-extinguishing materials. 305,812; Aug. 22; Serial No. 336,162; published May 30, 1933. Class 6.
Rainier Brewing Company, San Francisco, Calif. Malt beverages. 305,765; Aug. 22; Serial No. 336,241; published June 6, 1933. Class 48.
Red Raven Corporation, The, Red Raven, Pa. Maltless beverages and table water. 305,699; Aug. 22; Serial No. 335,885; published June 6, 1933. Class 45.
Regional Medicine Co., The. (See Roqué, R. Arrillaga.)
Reiss, Dr. Rudolf, Rheumasan- und Lenicet-Fabrik, Berlin-Charlottenburg, Germany. Dietetical foods. 305,714; Aug. 22; Serial No. 309,148; published June 13, 1933. Class 6.
Renault, L. N., & Sons, Inc., Egg Harbor City, N. J. Medicament. 305,814; Aug. 22; Serial No. 336,130; published June 6, 1933. Class 6.
Richardson Company, The, Lockland, Ohio. Composition panel board. 305,563; Aug. 22; Serial No. 337,170; published June 13, 1933. Class 12.
Riegel Textile Corporation, New York, N. Y. Cotton piece goods. 305,795; Aug. 22; Serial No. 334,846; published May 23, 1933. Class 42.
Riker Company, The, Newark, N. J. Buckles. 305,589; Aug. 22; Serial No. 330,166; published May 16, 1933. Class 40.
Roman Macaroni Co. Inc., Long Island City, N. Y. Noodles. 305,738; Aug. 22; Serial No. 335,333; published June 6, 1933. Class 46.
Roosa, Herbert H., Rochester, N. Y. Shoes and slippers. 305,706; Aug. 22; Serial No. 335,648; published May 16, 1933. Class 39.
Roqué, R. Arrillaga, doing business as The Regional Medicine Co., Anasco, P. R. Toilet water. 305,640; Aug. 22; Serial No. 331,199; published June 13, 1933. Class 6.
Saks & Company, New York, N. Y. Hats. 305,679; Aug. 22; Serial No. 334,578; published May 16, 1933. Class 39.
Salon, Wilma, Inc., New York, N. Y. Ladies' outer garments. 305,827; Aug. 22; Class 39.
Samuels Shoe Company, St. Louis, Mo. Shoes and slippers. 305,788; Aug. 22; Serial No. 334,700; published May 30, 1933. Class 39.
Sandeman, Geo. G., Sons & Co. Limited, London, England. Sherry wine. 305,613; Aug. 22; Serial No. 337,645; published June 13, 1933. Class 47.
Sanitary Food Mfg. Co. (See Griggs, Cooper & Co.)
Santamaria, J., y Cia., S. en C., Jeres de la Frontera, Spain. Cognac brandy. 305,752; Aug. 22; Serial No. 335,136; published June 6, 1933. Class 49.
Sauter, Alfred E., doing business as Sauter Brothers, New York, N. Y. Pajamas. 305,554; Aug. 22; Serial No. 335,599; published May 23, 1933. Class 39.
Sawyer System, Inc., Lynn, Mass. Boots and shoes. 305,522; Aug. 22; Serial No. 311,981; published June 13, 1933. Class 39.
Scheidt, Adam, Brewing Company, Norristown, Pa. Beer. 305,560–1; Serial Nos. 337,171–2; published June 6, 1933. Class 48.
Scherk G. m. b. H., Berlin, Germany. Perfumes, face powder, rouges, etc. 305,687; Aug. 22; Serial No. 333,533; published May 30, 1933. Class 6.
Scheuer, Samuel, New York, N. Y. Hats and caps. 305,739; Aug. 22; Serial No. 335,427; published June 6, 1933. Class 39.
Schleicher, Theodore H., doing business as Kitchenette Food Products Company, Indianapolis, Ind. Prepared cooky dough. 305,544; Aug. 22. Class 46.
Schmidt, Johann, Nuremberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Soluble receptacles. 41,046; renewed Sept. 1, 1933.
Schwartz, Leo A., doing business as Magicap Manufacturing Company, Cleveland, Ohio. Caps for setting waves in hair. 305,594; Aug. 22; Serial No. 329,294; published May 23, 1933. Class 40.
Sears, Roebuck and Co., Chicago, Ill. Shoes, shirts, gloves, etc. 305,548; Aug. 22; Serial No. 335,490; published May 30, 1933. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Alcohol anti-freeze and a preparation for use as a radiator leak-stop. 305,601; Aug. 22; Serial No. 333,564; published May 30, 1933. Class 6.
Sears, Roebuck and Co., Chicago, Ill. Babbitt metal. 305,719; Aug. 22; Serial No. 335,693; published June 13, 1933. Class 14.
Sears, Roebuck and Co., Chicago, Ill. Brass globe valves for radiators and other plumbing work, household strainer sets, etc. 305,720; Aug. 22; Serial No. 335,694; published June 6, 1933. Class 13.
Sears, Roebuck and Co., Chicago, Ill. Women's and misses' shoes. 305,815; Aug. 22; Serial No. 336,135; published June 13, 1933. Class 39.
Selleck, Frank B., doing business as The Oxygen Medicine Co., Long Island City, N. Y. Medicine for rheumatism, etc. 305,789; Aug. 22; Serial No. 334,701; published June 13, 1933. Class 6.
Serton Rubber Company, The, Dayton, Ohio. Rubber soles for shoes. 305,825; Aug. 22. Class 35.
Shapiro, S., Co. Inc., New York, N. Y. Dresses. 305,552; Aug. 22; Serial No. 336,788; published June 6, 1933. Class 39.
Sid's Remedy Co. (See Caplan, Sidney.)
Simons, Ernest, Mfg. Company, Port Chester, N. Y. Sheets, pillowcases, and sheetings. 305,637; Aug. 22; Serial No. 336,462; published June 6, 1933. Class 42.
Simpson, Orville, Company, The, Cincinnati, Ohio. Bolting cloth. 305,831; Aug. 22. Class 42.
Skinner, Dale B., doing business as Pilot Bread Sales Co., Des Moines, Iowa. Bread. 305,780; Aug. 22; Serial No. 335,144; published June 6, 1933. Class 46.
Smith, J. S., Druce & Co. Ltd. (See Nicholson, J. & W., & Co. Limited.)
Snow, Fred, doing business as Napa Glove Company, Napa, Calif. Gloves. 305,677; Aug. 22; Serial No. 334,473; published May 16, 1933. Class 39.
Société à Responsabilité Limitée Goupy, Paris, France. Hats and scarfs. 305,841; Aug. 22. Class 39.
Squibb, E. R., & Sons, New York, N. Y. Dentifrice. 305,773; Aug. 22; Serial No. 336,336; published May 30, 1933. Class 6.
Stahl, Herbert D., doing business as Davis Laboratories, Pittsburgh, Pa. Liquid and ointment for piles. 305,813; Aug. 22; Serial No. 336,164; published May 30, 1933. Class 6.
Stamford Drug Company. (See Osman, Theodore.)
Stanco Incorporated, New York, N. Y. Preparation for treatment of respiratory tract, etc. 305,556; Aug. 22; Serial No. 336,407; published June 6, 1933. Class 6.
Standard Brands Incorporated, New York, N. Y. Dough improver. 305,645; Aug. 22; Serial No. 331,445; published June 6, 1933. Class 46.
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Wax. 305,566; Aug. 22; Serial No. 337,094; published June 6, 1933. Class 16.
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Petroleum gas. 305,780; Aug. 22; Serial No. 336,378; published June 6, 1933. Class 6.
Star Company, assignor to King Features Syndicate, Inc., New York, N. Y. Newspaper section. 94,501; renewed Dec. 9, 1933.
Sta-Rite Hair Pin Company, Shelbyville, Ill. Hairpins. 305,785; Aug. 22; Serial No. 334,773; published May 16, 1933. Class 40.
Stein, A., & Company, Chicago, Ill. Narrow elastic. 305,710; Aug. 22; Serial No. 322,660; published May 30, 1933. Class 40.
Steiner, John C., doing business as Pioneer Health Products, Milwaukee, Wis. Laxative. 305,601; Aug. 22; Serial No. 336,167; published May 30, 1933. Class 6.
Stewart, Leize R., New York, N. Y. Pictorial representations. 305,611; Aug. 22; Serial No. 330,837; published June 6, 1933. Class 38.
Stillman Company, The. (See Bereman, James H.)
Stillwater Milling Company, Stillwater, Okla. Live-stock and poultry feed. 305,746; Aug. 22; Serial No. 335,010; published June 6, 1933. Class 46.
Stine & Goldman, Philadelphia, Pa. Shoes. 305,803; Aug. 22; Serial No. 336,025; published May 30, 1933. Class 39.
Storyk Bros., New York, N. Y. Dresses and blouses. 305,652; Aug. 22; Serial No. 336,517; published June 6, 1933. Class 39.
Strouse, Adler Company, The, New Haven, Conn. Corsets, corselettes, girdles, etc. 305,847; Aug. 22. Class 39.
Stuebe, William J., New York, N. Y. Cotton piece goods. 305,597; Aug. 22; Serial No. 328,903; published Dec. 27, 1932. Class 42.
Superior Laboratories, doing business at American Drug Prod. Co., Los Angeles, Calif. Pharmaceutical preparations. 305,787; Aug. 22; Serial No. 335,455; published May 30, 1933. Class 6.
Sussberg & Feinberg, Inc., New York, N. Y. Ladies' silk underwear. 305,650; Aug. 22; Serial No. 335,948; published May 23, 1933. Class 39.
Sweetman, George H., Inc., Cambridge, Mass. Candy box padding paper. 305,525; Aug. 22; Serial No. 336,843; published June 6, 1933. Class 37.
Sylva-Cross Laboratories, Inc., New York, N. Y. Toilet articles. 305,758–60; Aug. 22; Serial Nos. 335,218–19; published May 30, 1933. Class 6.
Tacoma Brewing Co., San Francisco, Calif. Malt beverages. 305,764; Aug. 22; Serial No. 336,238; published June 13, 1933. Class 48.
Thau, Charles K. (See Modish Specialties, Inc., assignor.)
Thymogen Laboratories. (See Vosseler, William F.)
Tobin, Sporn & Glaser, Inc., New York, N. Y. Lace, towels, napkins, etc. 305,747; Aug. 22; Serial No. 335,012; published May 30, 1933. Class 42.
Tobin, Sporn & Glaser, Inc., New York, N. Y. Braid, tape, silk, etc. 305,756; Aug. 22; Serial No. 335,013; published May 30, 1933. Class 40.
Tonee Company, The. (See McIntyre, Jacob E.)

United Distillers Limited, Vancouver, British Columbia, Canada. Gin and whiskey. 305,574–5; Aug. 22; Serial Nos. 337,373–4; published June 6, 1933. Class 49.
United Distillers Limited, Vancouver, British Columbia, Canada. Whiskey and gin. 305,576; Aug. 22; Serial No. 337,368; pubilshed June 6, 1933. Class 49.
United Distillers Limited, Vancouver, British Columbia, Canada. Whiskey and gin. 305,577; Aug. 22; Serial No. 337,372; published June 6, 1933. Class 49.
United Distillers Limited, Vancouver, British Columbia, Canada. Whiskey and gin. 305,579; Aug. 22; Serial No. 337,367; published June 6, 1933. Class 49.
United States Rubber Products, Inc., New York, N. Y. Rubber thread. 305,804; Aug. 22; Serial No. 336,028; published May 23, 1933. Class 43.
Universal Milk Company, The. (See Wisconsin Condensed Milk Co., assignor.)
Utona Inc., Detroit, Mich. Preparation for high blood pressure, hardened arteries, etc. 305,640; Aug. 22; Serial No. 335,949; published June 13, 1933. Class 6.
Vanity Fair Silk Mills, Reading, Pa. Underwear and hosiery. 305,748; Aug. 22; Serial No. 323,966; published Apr. 5, 1932. Class 39.
Vanity Fair Silk Mills, Reading, Pa. Hosiery and underwear. 305,802; Aug. 22; Serial No. 336,198; published June 13, 1933. Class 39.
Vanity Fair Silk Mills, Reading, Pa. Hosiery. 305,828; Aug. 22. Class 39.
Virginia Dare Extract Company, Inc., Brooklyn, N. Y. Wines. 305,648; Aug. 22; Serial No. 336,586; published June 6, 1933. Class 47.
Vosseler, William F., doing business as Thymogen Laboratories, Cincinnati, Ohio. Antiseptic powder. 305,631; Aug. 22; Serial No. 336,411; published June 6, 1933. Class 6.
Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie G. m. b. H., Munich, Germany. Perchlorethylene and solvent mixtures. 305,775; Aug. 22; Serial No. 336,265; published May 30, 1933. Class 6.
Walt, Justin F., New York, N. Y. Maltless beverages, drinking water, and ginger ale. 305,586; Aug. 22; Serial No. 337,241; published June 13, 1933. Class 45.
Waro Laboratories. (See Young, Frederick W.)
Warren Chemical & Manufacturing Company, to The Barrett Company, New York, N. Y., successor. Construction materials. 42,488–9; renewed July 8, 1933.
Warren Chemical & Manufacturing Company, to The Barrett Company, New York, N. Y., successor. Sheathing and roofing felt. 92,490; renewed July 8, 1933.
Warren Chemical & Manufacturing Company, to The Barrett Company, New York, N. Y., successor. Asphaltmastic. 94,135; renewed Nov. 4, 1933.
Wave Your Own Co. (See Willoughby, Maxwell K.)
Wegelin & Wilckes Black Mfg. Co., assignor, by mesne assignments, to Wilckes, Martin, Wilckes Company, Camden, N. J., and New York, N. Y. Lampblack. 40,642; renewed June 23, 1933.
Westchester Social & Shopping News, Inc., White Plains, N. Y. Newspaper. 305,604; Aug. 22; Serial No. 337,403; published June 13, 1933. Class 38.
Western Dairy Products, Inc., Los Angeles, Calif. Malted milk powder. 305,663; Aug. 22; Serial No. 332,016; published June 6, 1933. Class 46.
Weyenberg Shoe Mfg. Co., Milwaukee, Wis. Leather shoes. 305,641; Aug. 22; Serial No. 331,071; published May 30, 1933. Class 39.
White, New Haven, Conn. Men's hats. 305,619–21; Aug. 22; Serial Nos. 336,474–6; published June 6, 1933. Class 39.
White, New Haven, Conn. Men's hats. 305,625; Aug. 22; Serial No. 336,477; published June 6, 1933. Class 39.
White, New Haven, Conn. Men's hats. 305,630; Aug. 22; Serial No. 336,473; published June 6, 1933. Class 39.
White-Washburne Company, Inc., Hinsdale, N. H. Toilet paper, towels, and napkins. 305,580; Aug. 22; Serial No. 337,320; published June 13, 1933. Class 37.
Wilckes, Martin, Wilckes Company. (See Wegelin & Wilckes Black Mfg. Co., assignor.)
Williamson, D. D., & Company, Inc. (See Emken Chemical Co.)
Willis, H. T., doing business as G. C. Willis Champaign, Ill. Coats, suits and dresses, etc. 305,734; Aug. 22; Serial No. 335,378; published June 13, 1933. Class 39.
Willoughby, Maxwell K., doing business as Wave Your Own Co., Auburn, N. Y. Hair curling liquid. 305,843; Aug. 22. Class 6.
Wine & Spirit Vaults Limited, doing business as Malcolm Fraser & Co., London, England. Whisky and other potable distilled liquors. 305,616; Aug. 22; Serial No. 336,144; published June 6, 1933. Class 49.
Winter Haven Fruit Sales Corporation, Winter Haven, Fla. Fresh citrus fruits. 305,675; Aug. 22; Serial No. 334,509; published June 6, 1933. Class 46.
Winthrop Chemical Company, Inc., New York, N. Y. Sexual and pituitary hormone and endocrine preparations. 305,740; Aug. 22; Serial No. 335,430; published May 30, 1933. Class 6.
Wisconsin Condensed Milk Co., Burlington, Wis., and New York, N. Y., assignor, by mesne assignments, to The Universal Milk Company, New York, N. Y. Condensed milk. 41,667; renewed Dec. 15, 1933.
Woodbury, John H., Inc., Cincinnati, Ohio. Toilet preparations. 305,543; Aug. 22; Serial No. 336,631; published June 13, 1933. Class 6.
Woodbury, John H., Inc., Cincinnati, Ohio. Toilet preparations. 305,546; Aug. 22; Serial No. 336,630; published June 13, 1933. Class 6.
Wunder Manufacturing Co., Moline, Ill. Toy construction blocks and coasting slides. 305,731; Aug. 22; Serial No. 335,177; published June 13, 1933. Class 22.
Young, Frederick W., doing business as Waro Laboratories. Detroit, Mich. Medicinal preparation. 305,726–7; Aug. 22; Serial Nos. 335,900–1; published June 6, 1933. Class 6.
Young Men's Mutual Improvement Association Corporation of the Church of Jesus Christ of Latter-Day Saints, Salt Lake City, Utah. Magazine. 305,596; Aug. 22; Serial No. 326,745; published June 6, 1933. Class 38.
Ziegler, Louis, Brewing Company, Beaver Dam, Wis. Beer. 305,533; Aug. 22; Serial No. 336,894; published June 6, 1933. Class 48.
Ziegler, Louis, Brewing Company, Beaver Dam, Wis. Beer. 305,535; Aug. 22; Serial No. 336,892; published June 6, 1933. Class 48.
Ziegler, Louis, Brewing Company, Beaver Dam, Wis. Beer. 305,537; Aug. 22; Serial No. 336,892; published June 6, 1933. Class 48.
Ziffer biat, George, & Co., Philadelphia, Pa. Cigars. 305,834; Aug. 22. Class 17.
Zobel, Ernst, Company, Brooklyn, N. Y. Barrel lining (pitch). 305,838; Aug. 22. Class 1.

LIST OF REGISTRANTS OF LABELS

Arkin Hat Corporation, New York, N. Y. Speedway Hats. For Hats. 42,556; Aug. 22.
Atlas Brewing Company, Chicago, Ill. Atlas Special. For Beer. No. 42,557; Aug. 22.
Bellevue Kraut & Pickling Company, The, Bellevue, Ohio. Shur-Good. For Sauer Kraut. 42,558; Aug. 22.
Bird & Son, Inc., East Walpole, Mass. Junior Mates Shoes for Children. For Shoes. 42,559; Aug. 22.
Brockelman Bros. Inc., Worcester, Mass. Brockelman Gold Bond Butter. For Butter. 42,560; Aug. 22.
Crofoot, J. B., Co., Mount Prospect, Ill. 10,000 Crofoot No. 1 Staples. For Staples. 42,561; Aug. 22.
Drury, Mrs. Alice H., Northampton, Mass. Alice Dwight. For Marmalade. 42,562; Aug. 22.
Dwinell-Wright Company, Boston, Mass. Selected Coffee. For Coffee. 42,563; Aug. 22.
Dwinell-Wright Company, Boston, Mass. Quality. For Coffee. 42,564; Aug. 22.
Emblem Food Products Corporation, Milwaukee, Wis. Forget-me-not. For Ice Cream Bars. 42,565; Aug. 22.
Foell Packing Company, Chicago, Ill. Hot-Cha. For Chili Con Carne. 42,566; Aug. 22.
Foell Packing Company, doing business as Mascot Packing Co., Chicago, Ill. Mascot. For Dog Food. 42,567; Aug. 22.
General Mills, Inc., Minneapolis, Minn. Softasilk. For Cake Flour. 42,568; Aug. 22.
Globe Brewing Co., San Francisco, Calif. Globe Beer. For Beer. 42,569; Aug. 22.
Goenner and Company. (See Hahn, Paul.)
Hahn, Paul, doing business as Goenner and Company, Johnstown, Pa. Hahn's Bavarian Style Brew. For Lager Beer. 42,570; Aug. 22.
Independence Milwaukee Brewery, Milwaukee, Wis. Braumeister. For Lager Beer. 42,571; Aug. 22.
Inderrieden, J. B., Co., The, Chicago, Ill. Waukesha. For Canned Green Peas. 42,572; Aug. 22.
Jantzen Knitting Mills, Portland, Oreg. Molded-Fit. For Swimming Suits. 42,573; Aug. 22.
Mascot Packing Co. (See Foell Packing Company.)
Jewel Food Stores, Inc., Woodbury, N. Y., and Chicago, Ill. Blue Jewel Peanut Butter. For Peanut Butter. 42,574; Aug. 22.
Jewel Food Stores, Inc., Woodbury, N. Y., and Chicago, Ill. Blue Brook Coffee. For Coffee. 42,575; Aug. 22.
Jewel Food Stores, Inc., Woodbury, N. Y., and Chicago, Ill. Blue Brook Sliced Bacon. For Bacon. 42,576; Aug. 22.
Jewel Food Stores, Inc., Woodbury, N. Y., and Chicago, Ill. Royal Jewel Canadian Back Bacon. For Bacon. 42,577; Aug. 22.
Jewel Food Stores, Inc., Woodbury, N. Y., and Chicago, Ill. Blue Jewel Breakfast Bacon. For Bacon. 42,578; Aug. 22.
Jewel Food Stores, Inc., Chicago, Ill. Blue Brook Oleomargarine. For Margarine. 42,579; Aug. 22.
Los Angeles Soap Co., Los Angeles, Calif. White King. For Granulated Soap. 42,580; Aug. 22.
Mac Adam, A. E., & Co. Inc., Brooklyn, N. Y. Serious Thought About Ice Cream. For Ice Cream. 42,581; Aug. 22.
Manikin Products. (See Silberman, Madeline.)

Menasha Products Company, The, Menasha, Wis. Cobb's Wheatie Bread. For Bread. 42,582; Aug. 22.
Merit Associated Hosiery Mills, Inc., New York, N. Y. Ring-Pruf. For Hosiery. 42,583; Aug. 22.
Rurup, Ernest G., doing business as Scientific Laboratories of America, San Francisco, Calif. Dr. Ernest's Digesta—Liquid and Tablets. For Preparations in Liquid and Tablet Form for the Relief of Digestive Disturbances and Stomachic Disorders. 42,584; Aug. 22.
Rurup, Ernest G., doing business as Scientific Laboratories of America, San Francisco, Calif. Re-Duce-Oids—Capsules for Reducing Forms of Fat and Superfluous Weight. For Preparations in Capsule Form for the Reduction of Weight. 42,585; Aug. 22.
Ry-Lock Company, Ltd., San Leandro, Calif. One Ready-to-Make Ry-Lock Window Screen. For Ready-to-Make Window Screens. 42,586; Aug. 22.
Schuylkill Chemical Company, Philadelphia, Pa. Dovol. For Peroxide. 42,587; Aug. 22.
Scientific Laboratories of America. (See Rurup, Ernest G.)
Shaw, A. C., Palo Alto, Calif. Shaw Automobile 12,000 Mile Prepaid Lubrication Record. For Automobile Lubrication Records. 42,588; Aug. 22.
Silberman, Madeline, doing business as Manikin Products, New York, N. Y. Manikin Tea, for a Fashionable Figure. For Tea in the Nature of a Herbaceous Laxative. 42,589; Aug. 22.
Sunical Packing Company, San Francisco, Calif. Hearst Ranch. For Sliced Peaches. 42,590; Aug. 22.
Ulmer Pharmacal Company, Minneapolis, Minn. Bor-Zo-Phen. For Medical Preparation for the Dressing of Wounds and Skin Infections. 42,591; Aug. 22.
Ulmer Pharmacal Company, Minneapolis, Minn. Boro-Jel. For Medical Preparation for the Lubrication of Surgical Instruments. 42,592; Aug. 22.
Ulmer Pharmacal Company, Minneapolis, Minn. Cal-Zo. For Medical Preparation for the Treatment of Varicose and other Stubborn Ulcers. 42,593; Aug. 22.
Ulmer Pharmacal Company, Minneapolis, Minn. Picro-Benzyl. For Medical Preparation for the Treatment of Burns. 42,594; Aug. 22.
White & Wyckoff Mfg. Co., Holyoke and Riverside, Holyoke, Mass. Jiffy Jots Tablet. For Tablets. 42,595; Aug. 22.
White & Wyckoff Mfg. Co., Holyoke and Riverside, Holyoke, Mass. World's Biggest Little Tablet. For Tablets. 42,596; Aug. 22.

LIST OF REGISTRANTS OF PRINTS

American Stove Company, Cleveland, Ohio. Magic Chef. For Gas Ranges. 14,303; Aug. 22.
Cain, John E., Jamaica Plain, Boston, Mass. Mastermixt Mayonnaise. For Mayonnaise Dressing. 14,304; Aug. 22.
Ferguson, James, & Sons (Glasgow) Limited, Glasgow, Scotland. To a Bottle of 'J. F.' For Whisky. 14,305; Aug. 22.
Glorette Associates, New York, N. Y. Glorette-Graphs. For Gloves. 14,306; Aug. 22.
Kirchman, Max., Cicero, Ill. Drink My Dear Only Pilsenhof Beer. For Beer. 14,307; Aug. 22.
Premier-Pabst Corporation, Peoria Heights, Ill. Pabst Blue Ribbon the Beer of Quality. For Beer. 14,308; Aug. 22.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Asphalt-mastic. Warren Chemical & Manufacturing Company. 94,135; renewed Nov. 4, 1933.
Barrel lining (pitch). Ernst Zobel Company. 305,838; Aug. 22.
Coal. Central Coal Co. Inc. 305,642; Aug. 22.
Peat moss, charcoal, crushed oyster shells, etc. Esl. Dunwoodie Co. 305,616; Aug. 22; Serial No. 330,611; published Apr. 11, 1933.

CLASS 6

Alcohol anti-freeze and a preparation for use as a radiator leak-stop. Sears, Roebuck and Co. 305,691; Aug. 22; Serial No. 333,564; published May 30, 1933.
Ammonia and bluing. Griggs, Cooper & Co. 305,539; Aug. 22; Serial No. 336,677; published June 13, 1933.
Analgesic preparation for pain, etc. Hoffmann-La Roche, Inc. 305,528; Aug. 22; Serial No. 336,827; published June 13, 1933.
Antiseptic and germicide. Parke, Davis & Company. 305,545; Aug. 22; Serial No. 336 622; published June 13, 1933.
Antiseptic powder. W. F. Vosseler. 305,631; Aug. 22; Serial No. 336,411; published June 6, 1933.
Baking powder. General Mills, Inc. 305,810; Aug. 22; Serial No. 336,146; published June 13, 1933.
Brake fluid. Puritan Soap Company. 305,721; Aug. 22; Serial No. 335,738; published May 30, 1933.
Branding liquid. O. M. Franklin Blackleg Serum Company. 305,772; Aug. 22; Serial No. 336,320; published June 6, 1933.
Cleaner, stop leak, and anti freeze, Radiator. Phillips Petroleum Company. 305,656; Aug. 22; Serial No. 332,854; published May 30, 1933.
Cream and skin lotion, Cold and face. J. J. Martinelli. 305,658; Aug. 22; Serial No. 331,901; published May 30, 1933.
Creams, tonics, lotions, etc., Face, hair. Samuel Bernstein Hair Company. 305,732; Aug. 22; Serial No. 335,344; published June 6, 1933.
Dentifrice. E. R. Squibb & Sons. 305,773; Aug. 22; Serial No. 336,336; published May 30, 1933.
Deodorants and odor deterrents. Feminine Products, Inc. 305,784; Aug. 22; Serial No. 334,746; published June 6, 1933.
Digestive powder. Landritt Limited. 305,626; Aug. 22; Serial No. 336,438; published June 6, 1933.
Disinfectant. C. Perkins. 305,666; Aug. 22; Serial No. 332,894; published May 30, 1933.
Disinfectant, General horticultural. Bayer Semesan Company. 305,724; Aug. 22; Serial No. 335,761; published May 30, 1933.
Dyes and oils or chemical preparations used as dye assistants. Nova Chemical Corporation. 305,701; Aug. 22; Serial No. 335 874; published June 6, 1933.
Fire-extinguishing materials. Pyrene Manufacturing Company. 305,812; Aug. 22; Serial No. 336,162; published May 30, 1933.
Foods, Dietetical. Dr. Rudolf Reiss Rheumasan- und Lenicet-Fabrik. 305,714; Aug. 22; Serial No. 309,148; published June 13, 1933.
Germicidal and antiseptic preparation. H. J. Block. 305,556; Aug. 22; Serial No. 336,701; published June 13, 1933.
Gums, Preparation for the treatment of tender. G. F. Brown. 305,754; Aug. 22; Serial No. 325,196; published June 6, 1933.
Hair curling liquid. M. K. Willoughby. 305,843; Aug. 22.
Hormone and endocrine preparation, Sexual and pituitary. Winthrop Chemical Company. 305,740; Aug. 22; Serial No. 335,430; published May 30, 1933.
Insecticide. Phillips Petroleum Company. 305,763; Aug. 22; Serial No. 336,230; published May 30, 1933.
Insecticides. Johnson Oil Refining Company. 305,692; Aug. 22; Serial No. 333,556; published May 30, 1933.
Iodine solution, Nonpoisonous. Beslin Inc. 305,525; Aug. 22; Serial No. 336,669; published June 13, 1933.
Laxative. J. C. Steiner. 305,801; Aug. 22; Serial No. 336,167; published May 30, 1933.
Liniments, perfumes, deodorant, etc., Antiseptic. H. D. Braeutigam. 305,757; Aug. 22; Serial No. 335,054; published May 30, 1933.
Liquid and ointment for piles. H. D. Stahl. 305,813; Aug. 22; Serial No. 336,164; published May 30, 1933.
Lotion, Face. J. E. McIntyre. 305,627; Aug. 22; Serial No. 336,440; published June 6, 1933.
Lotion, rouge, cold cream, etc. Max Factor & Co. Inc. 305,716; Aug. 22; Serial No. 318,826; published Nov. 24, 1931.
Medicament. L. N. Renault & Sons, Inc. 305,814; Aug. 22; Serial No. 336,130; published June 6, 1933.
Medicinal preparation. F. W. Young. 305,726–7; Aug. 22; Serial Nos. 335,900–1; published June 6, 1933.
Medicinal preparations for use in treating animals. Dog Rite Products, Inc. 305,722; Aug. 22; Serial No. 335,773; published June 6, 1933.
Medicine, Tonic laxative. H. D. Hart. 305,629; Aug. 22; Serial No. 325,711; published July 26, 1932.
Medicines. Germania Tea Company. 305,829; Aug. 22.
Medicines for rheumatism, lumbago, etc. F. B. Selleck. 305,789; Aug. 22; Serial No. 334,701; published June 13, 1933.
Ointment. E. T. Browne Drug Co. 305,635; Aug. 22; Serial No. 325,865; published June 13, 1933.
Ointment and whitening cream. E. T. Browne Drug Co. Inc. 305,601; Aug. 22; Serial No. 325,867; published June 13, 1933.
Pencils, Lead. Blaisdell Pencil Company. 305,568; Aug. 22; Serial No. 337,011; published June 13, 1933.
Perchlorethylene and solvent mixtures. Dr. Alexander Wacker Gesellschaft fur Elektrochemische Industrie, G. m. b. H. 305,775; Aug. 22; Serial No. 336,265; published May 30, 1933.
Perfume. Godissart's Parfum Classique Francais Inc. Ltd. 305,654; Aug. 22; Serial No. 325,521; published June 21, 1932.

Perfume, toilet water, face powder, etc. Milson Company. 305,796; Aug. 22; Serial No. 334,854; published June 6, 1933.
Perfumes, face powder, creams, etc. L. B. Krick. 305,845; Aug. 22.
Perfumes, face powder, rouges, etc. Scherk G. m. b. H. 305,687; Aug. 22; Serial No. 333,538; published May 30, 1933.
Perfumes, toilet waters, shampoos, etc. N. Corotroff. 305,822; Aug. 22; Serial No. 336,175; published May 30, 1933.
Petroleum gas. Standard Oil Company of California. 305,780; Aug. 22; Serial No. 336,378; published June 6, 1933.
Pharmaceutical preparation and decongestant. Lederle Laboratories, Inc. 305,524; Aug. 22; Serial No. 336,829; published June 13, 1933.
Pharmaceutical preparations. Superior Laboratories. 305,737; Aug. 22; Serial No. 335,455; published May 30, 1933.
Pickling powder for use in the treatment of carbon steel. Delany Chemical Company. 305,767; Aug. 22; Serial No. 336,217; published May 30, 1933.
Pickling powder for use in the treatment of chromium nickel alloy steel. Delany Chemical Company. 305,771; Aug. 22; Serial No. 336,215; published May 30, 1933.
Pomatum, Skin. Princess Helene Gortchacow. 305,778; Aug. 22; Serial No. 336,300; published May 30, 1933.
Powder, cream, astringent, Face cleansing. Armand Company. 305,547; Aug. 22; Serial No. 325,453; published June 6, 1933.
Powder, Flea and lice. J. L. Hopkins & Co. 305,779; Aug. 22; Serial No. 336,353; published June 6, 1933.
Powder, Foot. S. Caplan. 305,680; Aug. 22; Serial No. 334,523; publishd June 6, 1933.
Powder, medicated, antiseptic, and hygienic jelly, etc., Douche. J. H. Bereman. 305,830; Aug. 22.
Powder, perfumes, hair preparations, etc., Face. Irene Cosmetic Shoppe. 305,837; Aug. 22.
Preparation for high blood pressure, hardened arteries, etc. Utona Inc. 305,649; Aug. 22; Serial No. 335,949; published June 13, 1933.
Preparation for the treatment of skin lesions. Hutchins' Chemical Co. 305,717; Aug. 22; Serial No. 321,684; publisbd Jan. 12, 1932.
Preparation for treatment of respiratory tract, etc. Stanco Incorporated. 305,636; Aug. 22; Serial No. 336,407; published June 6, 1933.
Preparation for treatment of the hair. A. F. Foderingham. 305,551; Aug. 22; Serial No. 336,760; published June 13, 1933.
Preparation for use as a disinfectant, deodorant, etc. E. L. Peterson. 305,800; Aug. 22; Serial No. 336,050; published May 30, 1933.
Salves. J. P. Allen Medicine Co. 91,631; renewed May 20, 1933.
Shock absorber fluid. Houde Engineering Corporation. 305,688–9; Aug. 22; Serial Nos. 333,515–16; published June 13, 1933.
Sodium resinate and emulsified binder for coal dust. Champion Fibre Company. 305,690; Aug. 22; Serial No. 333,671; published May 30, 1933.
Soluble receptacles. J. Schmidt. 41,046; renewed Sept. 1, 1933.
Toilet articles. Sylva-Cross Laboratories, Inc. 305,759–60; Aug. 22; Serial Nos. 335,218–19; published May 30, 1933.
Toilet preparations. John H. Woodbury, Inc. 305,543; Aug. 22; Serial No. 336,631; published June 13, 1933.
Toilet preparations. John H. Woodbury, Inc. 305,546; Aug. 22; Serial No. 336,630; published June 13, 1933.
Toilet water. B. A. Roque. 305,640; Aug. 22; Serial No. 331,199; published June 13, 1933.
Washing fluid—disinfectant—bleach. C. M. Kimball Co. 305,695; Aug. 22; Serial No. 333,734; published June 6, 1933.
Water proofing and oil proofing preparation. Impervious Products, Inc. 305,647; Aug. 22; Serial No. 336,589; published June 13, 1933.
Water softening preparation having cleaning properties. H. & L. Products Company. 305,811; Aug. 22; Serial No. 336,157; published May 30, 1933.

CLASS 8

Pipes and cigar and cigarette holders, Smokers'. Kaufmann Bros. & Bondy, Inc. 305,705; Aug. 22; Serial No. 335,680; published June 13, 1933.
Pipes, cigar and cigarette holders, tobacco pouches, etc. Kaufmann Bros. & Bondy, Inc. 305,718; Aug. 22; Serial No. 335,681; published June 13, 1933.

CLASS 10

Fertilizers. Goulard & Olena Inc. 305,758; Aug. 22; Serial No. 335,059; published June 6, 1933.

CLASS 11

Carbon black. Godfrey L. Cabot, Inc. 305,684; Aug. 22; Serial No. 333,502; published June 6, 1933.
Inks. Kaumagraph Company. 305,585; Aug. 22; Serial No. 337,300; published June 6, 1933.

CLASS 12

Board, Composition panel. Richardson Company. 305,563; Aug. 22; Serial No. 337,170; published June 13, 1933.
Cement, Hydraulic. Crandall Engineering Company. 305,618; Aug. 22; Serial No. 336,561; published June 13, 1933.
Cement, Portland. Lone Star Cement Company, Indiana, Incorporated. 305,745; Aug. 22; Serial No. 335,422; published June 13, 1933.
Cements, Self-hardening, acid and water-proof. I. G. Farbenindustrie Aktiengesellschaft. 305,707; Aug. 22; Serial No. 335,669; published June 13, 1933.
Construction materials. Warren Chemical & Manufacturing Company. 92,488–9; renewed July 8, 1933.
Sheathing and roofing felt. Warren Chemical & Manufacturing Company. 92,490; renewed July 8, 1933.
Stone for mausoleums, monuments, porch steps, etc., Cast. Paul & Russell, Inc. 305,660; Aug. 22; Serial No. 335,623; published June 13, 1933.
Valves for radiators and other plumbing works, household strainer sets, etc., Brass globe. Sears, Roebuck and Co. 305,720; Aug. 22; Serial No. 335,694; published June 6, 1933.

CLASS 13

Clamps for jars, Replacement. Grange Boy Metal Products Company. 305,792; Aug. 22; Serial No. 336,115; published June 6, 1933.
Screw machine products, Headed. Aluminum Company of America. 305,635; Aug. 22; Serial No. 333,310; published June 13, 1933.
Tank water softeners. T. N. Gibson. 305,709; Aug. 22; Serial No. 336,940; published June 6, 1933.

CLASS 14

Copper and copper alloys. Copper & Brass Research Association. 305,774; Aug. 22; Serial No. 336,343; published June 13, 1933.
Electrode material for welding and dies. Electroloy Company. 305,605; Aug. 22; Serial No. 337,463; published June 13, 1933.
Metal, Babbitt. Sears, Roebuck and Co. 305,719; Aug. 22; Serial No. 335,693; published June 13, 1933.
Metals and bushings. Chrome Alloys Manufacturing Co. 305,612; Aug. 22; Serial No. 330,890; published June 6, 1933.

CLASS 16

Finishes for floors and other furniture surfaces. Noxon Chemical Products Co. Inc. 305,715; Aug. 22; Serial No. 336,956; published June 13, 1933.
Lampblack. Wegelin & Wilckes Black Mfg. Co. 40,642; renewed June 23, 1933.
Paints and varnishes. Hall Hardware Company. 305,819; Aug. 22; Serial No. 336,119; published June 6, 1933.
Paints, paste paints, paint fillers, etc. E. I. du Pont de Nemours and Company. 305,551; Aug. 22; Serial No. 336,934; published June 6, 1933.
Paints, varnishes, enamels, etc. Lowe Brothers Company. 305,662; Aug. 22; Serial No. 332,123; published June 13, 1933.
Wax. Standard Oil Company of California. 305,566; Aug. 22; Serial No. 337,094; published June 6, 1933.
Wax and lacquer. S. C. Johnson & Son, Inc. 305,536; Aug. 22; Serial No. 336,872; published June 6, 1933.
Wax, Liquid polishing. Economics Laboratory, Inc. 305,783; Aug. 22; Serial No. 336,352; published June 13, 1933.

CLASS 17

Cigars. Garcia Grande Cigars, Incorporated. 305,603; Aug. 22; Serial No. 337,425; published June 13, 1933.
Cigars. George Zifferblatt & Co. 305,834; Aug. 22.

CLASS 19

Automobiles and structural parts thereof. M. G. Car Company Limited. 305,646; Aug. 22; Serial No. 335,919; published June 6, 1933.
Guards, Splash, for motor vehicles. Casco Products Corporation. 305,599; Aug. 22; Serial No. 326,415; published June 13, 1933.
Trailers for passenger-carrying and commercial. Curtiss Aerocar Company. 305,527; Aug. 22; Serial No. 336,819; published June 13, 1933.

CLASS 22

Card game and chart for same. J. L. Mitchell. 305,608; Aug. 22; Serial No. 337,569; published June 13, 1933.
Machines and tools, Metal working. National Acme Co. 305,682; Aug. 22; Serial No. 333,077; published May 30, 1933.
Puzzle drawing books. Baltimore Salesbook Company. 305,571; Aug. 22; Serial No. 337,064; published June 6, 1933.
Puzzles, Picture. La France Workshop Company. 305,624; Aug. 22; Serial No. 336,485; published June 6, 1933.
Toy construction blocks and coasting slides. Wunder Manufacturing Co. 305,731; Aug. 22; Serial No. 335,177; published June 13, 1933.
Toys. Champion Hardware Company. 305,615; Aug. 22; Serial No. 330,449; published June 6, 1933.

CLASS 24

Laundry washing machines. One Minute Washer Company. 305,578; Aug. 22; Serial No. 337,350; published June 13, 1933.

CLASS 29

Cleaners and parts thereof, Window. Greenview Manufacturing Company. 305,534; Aug. 22; Serial No. 336,903; published June 13, 1933.

CLASS 34

Furnaces and stoves and parts thereof, Wood burning. Boynton Furnace Co. 305,786; Aug. 22; Serial No. 336,071; published June 13, 1933.
Vents for brick furnaces, Safety gas. Firmin Provincial. 305,529; Aug. 22; Serial No. 336,939; published June 13, 1933.

CLASS 37

Paper, Bathroom tissue. North End Paper Caper Co. 305,582; Aug. 22; Serial No. 337,307; published June 6, 1933.
Paper, Candy box padding. George H. Sweetnam Inc. 305,505; Aug. 22; Serial No. 336,843; published June 6, 1933.
Paper, Toilet. Inlander-Steindler Paper Company. 305,683; Aug. 22; Serial No. 333,036; published Mar. 21, 1933.
Paper, towels, and napkins, Toilet. White-Washburne Company. 305,580; Aug. 22; Serial No. 337,320; published June 13, 1933.
Pens, mechanical pencils, and desk sets, Fountain. Parker Pen Company. 305,672; Aug. 22; Serial No. 334,466; published June 13, 1933.
Tissue, Toilet. Margert Paper Company. 305,782; Aug. 22; Serial No. 336,897; published June 13, 1933.

CLASS 38

Cards and printed invitations, Greeting and enclosure. Inter-Collegiate Press. 305,736; Aug. 22; Serial No. 335,450; published June 6, 1933.
Column pertaining to the weather for periodical publications. C. S. Partridge. 305,584; Aug. 22; Serial No. 337,265; published June 6, 1933.
Guides and maps, Street. Hearne Brothers. 305,744; Aug. 22; Serial No. 335,356; published June 13, 1933.
Magazine. American Oil Chemists' Society. 305,559; Aug. 22; Serial No. 337,208; published June 6, 1933.
Magazine. Young Men's Mutual Improvement Association of the Church of Jesus Christ of Latter-Day Saints. 305,596; Aug. 22; Serial No. 328,745; published June 6, 1933.
Magazine, Monthly. Macnair-Dorland Company. 305,564; Aug. 22; Serial No. 337,124; published June 13, 1933.
Magazine, Musical. Magazine Guild, Inc. 305,776; Aug. 22; Serial No. 336,291; published June 13, 1933.
Newspaper. Westchester Social & Shopping News, Inc. 305,604; Aug. 22; Serial No. 337,403; published June 13, 1933.
Newspaper-section. Star Company. 94,501; renewed Dec. 9, 1933.
Periodical. Chamber of Commerce of the United States of America. 93,334; renewed Sept. 9, 1933.
Periodical. Mcquiddy Printing Co. 305,570; Aug. 22; Serial No. 337,076; published June 13, 1933.
Periodicals. Inter-Collegiate Press. 305,712; Aug. 22; Serial No. 336,986; published June 6, 1933.
Pictorial representations. L. R. Stewart. 305,611; Aug. 22; Serial No. 330,837; published June 6, 1933.
Pictures, illustrations, display cards, etc. Meriden Gravure Co. 305,544; Aug. 22; Serial No. 333,657; published June 6, 1933.
Publication. W. G. Bryan and Associates. 305,606; Aug. 22; Serial No. 337,457; published June 13, 1933.
Publication. H. Gernsback. 305,558; Aug. 22; Serial No. 337,186; published June 6, 1933.
Publications. Alber & Wickes, Inc. 305,671; Aug. 22; Serial No. 334,174; published June 13, 1933.

CLASS 39

Apparel. Dumari Textile Co. 305,676; Aug. 22; Serial No. 334,490; published May 23, 1933.
Boots and shoes. Freeman Shoe Corporation. 305,659; Aug. 22; Serial No. 335,637; published May 30, 1933.
Boots and shoes. A. H. Geuting Company. 305,753; Aug. 22; Serial No. 325,322; published May 23, 1933.
Boots and shoes. International Shoe Co. 305,703; Aug. 22; Serial No. 335,677; published May 16, 1933.
Boots and shoes. Sawyer System, Inc. 305,522; Aug. 22; Serial No. 311,981; published June 13, 1933.
Boots, shoes, and slippers. C. H. Daniels. 305,590; Aug. 22; Serial No. 329; published May 30, 1933.
Boots, shoes, and slippers. C. H. Daniels. 305,595; Aug. 22; Serial No. 329,502; published May 30, 1933.
Boots, shoes, and slippers. C. H. Daniels. 305,617; Aug. 22; Serial No. 329,769; published May 30, 1933.
Boots, shoes, gaiters, and spats. G. R. Kinney Co. 305,794; Aug. 22; Serial No. 334,800; published May 23, 1933.
Brassières, corsets, girdles, and hosiery. Greenhill & Daniel, Inc. 305,818; Aug. 22; Serial No. 336,118; published June 6, 1933.
Clothing and furnishings, Boys'. Gimbel Brothers, Inc. 305,836; Aug. 22.
Clothing and furnishings, Men's. Gimbel Brothers, Inc. 305,840; Aug. 22.
Clothing, Men's. Big Store Co. 305,725; Aug. 22; Serial No. 335,764; published May 30, 1933.
Clothing, women's, misses', and juniors'. Eisenberg & Sons, Inc. 305,729; Aug. 22; Serial No. 335,895; published May 30, 1933.
Clothing, Work. H. D. Lee Mercantile Co. 305,820; Aug. 22; Serial No. 336,123; published June 6, 1933.
Coats and jackets. John Edelman & Sons. 305,600; Aug. 22; Serial No. 328,047; published May 23, 1933.
Coats, breeches and trousers, and jackets. Berlin Glove Co. 305,728; Aug. 22; Serial No. 335,270; published May 23, 1933.
Coats, Mens'. J. David. 305,573; Aug. 22; Serial No. 337,385; published June 6, 1933.
Coats, suits, and dresses, etc. H. T. Willis. 305,734; Aug. 22; Serial No. 335,378; published June 13, 1933.
Collars, shirts and windbreakers. H. D. Bob Company. 305,530; Aug. 22; Serial No. 336,815; published May 30, 1933.
Corsets, corselettes, girdles, etc. Strouse, Adler Company. 305,847; Aug. 22.
Dresses. Davis Company. 305,849; Aug. 22.
Dresses. S. Shapiro Co. Inc.. 305,552; Aug. 22; Serial No. 336,788; published June 6, 1933.
Dresses and blouses. Storyk Bros. 305,652; Aug. 22; Serial No. 336,517; published June 6, 1933.
Dresses and top coats, Children's. Joseph Love, Inc. 305,542; Aug. 22; Serial No. 336,654; published May 30, 1933.
Dresses and top coats, Children's. Joseph Love, Inc. 305,686; Aug. 22; Serial No. 333,294; published June 6, 1933.
Dresses, pajamas, underwear, etc. Kats Underwear Co. 305,704; Aug. 22; Serial No. 335,679; published May 16, 1933.
Dresses, underwear, waists, etc. N. Fluegelman & Co. 305,540; Aug. 22; Serial No. 336,642; published May 30, 1933.
Garments. Firestone Tire & Rubber Company. 305,593; Aug. 22; Serial No. 329,284; published May 30, 1933.
Garments, Bust confining. Kops Brothers, Inc. 305,694; Aug. 22; Serial No. 333,937; published May 16, 1933.
Garments, Foundation. Her Majesty Corset Company. 305,541; Aug. 22; Serial No. 336,647; published June 6, 1933.
Garments, Ladies' outer. Wilma Salon, Inc. 305,827; Aug. 22.
Girdles and garter belts, hose supports, etc. Marcus & Wiesen Inc. 305,749; Aug. 22; Serial No. 323,751; published June 14, 1932.
Girdles, corsets, and brassières. H. W. Gossard Co. 305,823; Aug. 22; Serial No. 336,181; published May 30, 1933.
Girdles, corsets, etc. Artistic Brassière Co. Inc. 305,623; Aug. 22; Serial No. 336,488; published June 6, 1933.
Girdles, Step-In. Lewel Mfg. Co. Inc. 305,555; Aug. 22; Serial No. 336,685; published June 13, 1933.
Gloves. Pall Mall Lace & Embroidery Works, Inc. 305,674; Aug. 22; Serial No. 334,368; published May 23, 1933.
Gloves. F. Snow. 305,677; Aug. 22; Serial No. 334,473; published May 16, 1933.
Gloves, Household rubber. American Anode Inc. 305,735; Aug. 22; Serial No. 335,386; published May 9, 1933.
Hats. Hat Corporation of America. 305,702; Aug. 22. Serial No. 335,675; published May 16, 1933.
Hats. Hat Corporation of America. 305,703; Aug. 22; Serial No. 335,674; published May 16, 1933.
Hats. W. Kats. 305,846; Aug. 22.
Hats. Saks & Company. 305,679; Aug. 22; Serial No. 334,578; published May 16, 1933.
Hats and caps. Mallory Hat Company. 305,835; Aug. 22.
Hats and caps. S. Scheuer. 305,789; Aug. 22; Serial No. 335,427; published June 6, 1933.
Hats and scarfs. Société à Responsabilité Limitée Goupy. 305,841; Aug. 22.
Hats, Ladies'. Bloomingdale Bros., Inc. 305,673; Aug. 22; Serial No. 334,382; published May 16, 1933.
Hats, Ladies'. W. K. Marks. 305,550; Aug. 22; Serial No. 335,565; published May 16, 1933.
Hats, Men's. White. 305,619–21; Aug. 22; Serial Nos. 336,474–6; published June 6, 1933.
Hats, Men's. White. 305,625; Aug. 22; Serial No. 336,477; June 6, 1933.
Hats, Men's. White. 305,630; Aug. 22; Serial No. 336,473; published June 6, 1933.
Hosiery. Berkshire Knitting Mills. 305,808–9; Aug. 22; Serial Nos. 336,106–9; published May 23, 1933.
Hosiery. Mock, Judson, Voehringer Co. 305,698; Aug. 22; Serial No. 335,918; published May 23, 1933.
Hosiery. Vanity Fair Silk Mills. 305,828; Aug. 22.
Hosiery and underwear. Vanity Fair Silk Mills. 305,802; Aug. 22; Serial No. 336,198; published June 13, 1933.
Overalls and play suits for children. Pool Manufacturing Company. 305,642; Aug. 22; Serial No. 335,970; published May 30, 1933.
Overalls, trousers, and shirts. Niagara Overall & Pants Co. 93,894; renewed Oct. 21, 1933.
Pajamas. A. E. Sauter. 305,554; Aug. 22; Serial No. 335,599; published May 23, 1933.

Pants, coats, and vests. Finchley Inc. 305,651; Aug. 22; Serial No. 335,933; published May 23, 1933.
Pants of rubber, Baby. I. B. Kleinert Rubber Company. 305,715; Aug. 22; Serial No. 312,807; published May 30, 1933.
Raincoats. Lustberg, Nast & Co. Inc. 305,661; Aug. 22; Serial No. 332,306; published May 30, 1933.
Shoes. Arenberg-Plotkin Shoe Company. 305,769; Aug. 22; Serial No. 336,207; published May 30, 1933.
Shoes. Florsheim Shoe Company. 305,602; Aug. 22; Serial No. 326,210; published June 14, 1932.
Shoes. Lazarus Fried & Sons Inc. 305,817; Aug. 22; Serial No. 336,187; published May 30, 1933.
Shoes. H. C. Godman Company. 305,750; Aug. 22; Serial No. 323,401; published May 30, 1933.
Shoes. Julius Grossman, Inc. 305,845; Aug. 22.
Shoes. P. A. Hill. 305,696; Aug. 22; Serial No. 334,057; published June 13, 1933.
Shoes. Moran Shoe Company. 305,669; Aug. 22; Serial No. 334,225; published June 13, 1933.
Shoes. Stine & Goldman. 305,803; Aug. 22; Serial No. 336,025; published May 30, 1933.
Shoes and slippers. H. H. Roosa. 305,706; Aug. 22; Serial No. 335,648; published May 16 1933.
Shoes and slippers. Samuels Shoe Company. 305,788; Aug. 22; Serial No. 334,700; published May 30, 1933.
Shoes, Leather. Weyenberg Shoe Mfg. Co. 305,641; Aug. 22; Serial No. 331,071; published May 30, 1933.
Shoes, shirts, gloves, etc. Sears, Roebuck and Co. 305,548; Aug. 22; Serial No. 335,490; published May 30, 1933.
Shoes, Women's. Bancroft-Walker Company. 305,741; Aug. 22; Serial No. 335 442; published May 30, 1933.
Shoes, Women's and misses'. Sears, Roebuck and Co. 305,815; Aug. 22; Serial No. 336,135; published June 13, 1933.
Slips, gowns, chemises, etc. De Garcy Co. Inc. 305,743; Aug. 22; Serial No. 335,500; published May 30, 1933.
Soles for shoes, Rubber. Serton Rubber Company. 305,825; Aug. 22.
Soles, Shoe. Essex Rubber Company. 305,532; Aug. 22; Serial No. 336,938; published June 13, 1933.
Suits, overcoats, and topcoats. S. Makransky and Sons, Inc. 305,762; Aug. 22; Serial No. 336,224; published May 30, 1933.
Suits, trousers, coats, etc. Bond Stores, Incorporated. 305,592; Aug. 22; Serial No. 329,701; published Apr. 11, 1933.
Swimming trunks. Olympia Knitting Mills, Inc. 305,569; Aug. 22; Serial No. 337,088; published June 6 1933.
Underwear. Manhattan Shirt Co. 305,643; Aug. 22; Serial No. 336,569; published May 30, 1933.
Underwear and hosiery. Vanity Fair Silk Mills. 305,748; Aug. 22; Serial No. 323,906; published Apr. 5, 1932.
Underwear, Ladies' silk. Sussberg & Feinberg, Inc. 305,650; Aug. 22; Serial No. 335,948; published May 23, 1933.

CLASS 40

Braid, tape, silk, etc. Tobin, Sporn & Glaser, Inc. 305,756; Aug. 22; Serial No. 335,013; published May 30, 1933.
Buckles. Riker Company. 305,589; Aug. 22; Serial No. 330,166; published May 16, 1933.
Buttons and ingredients which are used for making. C. Greenhaus. 305,693; Aug. 22; Serial No. 334,009; published June 13, 1933.
Caps for setting waves in hair. L. A. Schwartz. 305,594; Aug. 22; Serial No. 329,294; published May 23, 1933.
Combs, barrettes, switches, wigs, etc. Modish Specialties, Inc. 305,833; Aug. 22.
Crimpers, combs, barrettes, and non-electric curlers. H. Goodman & Sons, Inc. 305,761; Aug. 22; Serial No. 335,234; published May 23, 1933.
Elastic, Narrow. A. Stein & Company. 305,710; Aug. 22; Serial No. 322,660; published May 30, 1933.
Hairpins. Sta-Rite Hair Pin Company. 305,785; Aug. 22; Serial No. 334,773; published May 16, 1933.
Needles and pins, etc. English Needle & Fishing Tackle Co. 305,665; Aug. 22; Serial No. 332,449; published May 16, 1933.
Pins, Finger wave. Lui's Patent Hairpin Co. 305,598; Aug. 22; Serial No. 329,276; published May 16, 1933.
Tapes, bindings, braids, etc. Alva Tape Mills. 305,634; Aug. 22; Serial No. 335,986; published May 30, 1933.

CLASS 42

Bolting cloth. Orville Simpson Company. 305,831; Aug. 22.
Burlap canvas and fabrics of jute, hemp, etc. P. Buccolo. 305,770; Aug. 22; Serial No. 336,209; published May 30, 1933.
Cotton dress and piece goods. Lorraine Manufacturing Company. 305,768; Aug. 22; Serial No. 336,223; published May 30, 1933.
Cotton fabrics in the piece. Clarence S. Brown & Company. 305,881; Aug. 22; Serial No. 333,279; published May 30, 1933.
Cotton goods. M. J. Mack Textile Corp. 305,733; Aug. 22; Serial No. 335,362; published May 9, 1933.
Cotton piece goods. M. L. Gitelson. 305,553; Aug. 22; Serial No. 335,593; published May 16, 1933.
Cotton piece goods. Riegel Textile Corporation. 305,795; Aug. 22; Serial No. 334,846; published May 23, 1933.
Cotton piece goods. W. J. Stuebe. 305,597; Aug. 22; Serial No. 328,803; published Dec. 27, 1932.
Cotton shirtings and cotton textile fabrics, Men's. Alfred L. Helwith & Co. 305,755; Aug. 22; Serial No. 335,319; published May 9, 1933.
Curtains. Boott Mills. 305,821; Aug. 22; Serial No. 336,171; published June 13, 1933.
Elastic webbing. H. W. Gossard Co. 305,824; Aug. 22; Serial No. 336,182; published May 30, 1933.
Fabrics. Progressive Knitted Rayon Fabric Mills, Inc. 305,826; Aug. 22.
Fabrics of cellulose. Celanese Corporation of America. 305,742; Aug. 22; Serial No. 335,446; published May 9, 1933.
Gauze, Soft. Chicopee Manufacturing Corporation. 305,711; Aug. 22; Serial No. 323,108; published May 16, 1933.
Interlinings and linings in the piece. D. Bersin. 305,670; Aug. 22; Serial No. 334,206; published June 6, 1933.
Lace, towels, napkins, etc. Tobin, Sporn & Glaser, Inc. 305,747; Aug. 22; Serial No. 335,012; published May 30, 1933.
Pile fabrics. Sidney Blumenthal & Co. Inc. 305,549; Aug. 22; Serial No. 335,495; published May 9, 1933.
Pile fabrics. Sidney Blumenthal & Co. Inc. 305,667; Aug. 22; Serial No. 335,953; published May 30, 1933.
Pile fabrics. Collins & Aikman. 305,632; Aug. 22; Serial No. 335,992; published May 30, 1933.
Pile fabrics. Coudurier, Fructus & Deacher. 305,793; Aug. 22; Serial No. 334,598; published May 16, 1933.
Pile fabrics. Crompton-Richmond Company. 305,557; Aug. 22; Serial No. 305,557.
Rayon textile material in the piece. S. T. Palay & Co. 305,790; Aug. 22; Serial No. 324,969; published Apr. 19, 1932.
Rugs, Textile. Ludwig Baumann & Company. 305,638; Aug. 22; Serial No. 335,952; published May 30, 1933.
Sheets, pillowcases, and sheetings. Ernest Simons Mfg. Company. 305,637; Aug. 22; Serial No. 336,462; published June 6, 1933.
Taffeta, Rayon. S. T. Palay & Co. 305,791; Aug. 22; Serial No. 324,970; published Apr. 19, 1932.
Textile fabrics. Botany Worsted Mills. 305,633; Aug. 22; Serial No. 335,989; published May 30, 1933.
Textile fabrics, Showerproof. J. Mandleberg & Company Limited. 305,657; Aug. 22; Serial No. 332,591; published May 16, 1933.
Tweeds. Kenneth Mackenzie, Limited. 305,797; Aug. 22; Serial No. 334,875; published May 30, 1933.
Velvet. J. B. Martin Company. 305,751; Aug. 22; Serial No. 335,069; published May 9, 1933.
Woolen and worsted piece goods. G. Garnett & Sons, Limited. 305,806; Aug. 22; Serial No. 336,086; published June 13, 1933.
Woolen piece goods. Oregon City Manufacturing Company. 305,728; Aug. 22; Serial No. 335,831; published May 30, 1933.

CLASS 43

Thread and yarn. Courtlands, Limited. 94,607; renewed Dec. 23, 1933.
Thread, Rubber. United States Rubber Products, Inc. 305,804; Aug. 22; Serial No. 336,028; published May 23, 1933.
Thread, Sewing. Lily Mill and Power Company. 305,781; Aug. 22; Serial No. 336,396; published May 30, 1933.
Threads, yarns, and novelty yarns. National Silk Co. 305,591; Aug. 22; Serial No. 329,645; published May 23, 1933.
Yarns. Patons & Baldwins, Limited. 305,567; Aug. 22; Serial No. 337,102; published June 6, 1933.

CLASS 44

Applicators, Medicinal. J. H. Bereman. 305,807; Aug. 22; Serial No. 336,107; published June 13, 1933.
Atomizers. R. A. Cushman. 305,622; Aug. 22; Serial No. 336,562; published June 13, 1933.
Catamenial receptacle. Coezene Company. 305,805; Aug. 22; Serial No. 336,033; published June 6, 1933.
Tweezers, forceps, pliers, etc. Henkel Company. 305,839; Aug. 22.

CLASS 45

Beer concentrate and syrup, Root. Charles E. Hires Company. 305,639; Aug. 22; Serial No. 332,584; published June 6, 1933.
Beer concentrate and syrup, Root. Charles E. Hires Company. 305,664; Aug. 22; Serial No. 332,583; published June 6, 1933.
Beverages and table water, Maltless. Red Raven Corporation. 305,699; Aug. 22; Serial No. 335,885; published June 6, 1933.
Beverages, drinking water, and ginger ale. J. F. Wait. 305,586; Aug. 22; Serial No. 337,241; published June 13, 1933.
Flavors and extracts, Maltless. T. Osman. 305,628; Aug. 22; Serial No. 336,451; published June 6, 1933.

CLASS 46

Bread. D. B. Skinner. 305,730; Aug. 22; Serial No. 335,144; published June 6, 1933.
Candies. S. H. Kress & Co. 305,588; Aug. 22; Serial No. 329,861; published June 6, 1933.
Candies. Owosso Products Corporation. 305,655; Aug. 22; Serial No. 332,988; published June 6, 1933.

Canned fruits. Mor-Pak Preserving Corporation. 305,832; Aug. 22.
Canned fruits and vegetables, spices, cocoa, etc. Merchants Service Corporation. 305,760; Aug. 22; Serial No. 336,171; published June 13, 1933.
Coffee. C. D. Kenny Co. 305,653; Aug. 22; Serial No. 336,505; published June 6, 1933.
Cooky dough, Prepared. T. H. Schleicher. 305,844; Aug. 22.
Dough improver. Standard Brands Incorporatcd. 305,645; Aug. 22; Serial No. 331,445; published June 6, 1933.
Feed, Live-stock and poultry. Stillwater Milling Company. 305,746; Aug. 22; Serial No. 335,010; published June 6, 1933.
Food, Dog. Atlantic Coast Fisheries Corporation of New York. 305,526; Aug. 22; Serial No. 336,851; published June 6, 1933.
Food for dogs, cats, and foxes. J. F. McKenna. 305,777; Aug. 22; Serial No. 336,292; published June 6, 1933.
Fruits, Fresh citrus. Winter Haven Fruit Sales Corporation. 305,675; Aug. 22; Serial No. 334,509; published June 6, 1933.
Milk, Condensed. Wisconsin Condensed Milk Co. 41,667; renewed Dec. 15, 1933.
Milk powder, Malted. Western Dairy Products, Inc. 305,603; Aug. 22; Serial No. 332,016; published June 6, 1933.
Noodles. Roman Macaroni Co. Inc. 305,738; Aug. 22; Serial No. 335,333 published June 6, 1933.
Ration or for ration comprising treated vegetation for poultry, live stock and human beings. Enza-Vita Laboratories, Inc. 305,644; Aug. 22; Serial No. 331,455; published June 6, 1933.
Sirup, Chocolated-flavored. Bowey's, Inc. 305,678; Aug. 22; Serial No. 334,596; published June 6, 1933.

CLASS 47

Champagne. J. D. Monica. 305,587; Aug. 22; Serial No. 337,263; published June 6, 1933.
Wine, Sherry. Geo. G. Sandeman, Sons & Co. Limited. 305,613; Aug. 22; Serial No. 337,645; published June 13, 1933.
Wines. Geo. Bens & Sons. 305,572; Aug. 22; Serial No. 337,391; published June 6, 1933.
Wines. Compania Mata Union de Bodegas Andaluzas S. A. 305,766; Aug. 22; Serial No. 336,216; published June 13, 1933.
Wines. Fruit Industries, Ltd. 305,609; Aug. 22; Serial No. 337,558; published June 13, 1933.
Wines. Mission Dry Corporation, Ltd. 305,562; Aug. 22; Serial No. 337,133; published June 13, 1933.
Wines. Mission Dry Corporation, Ltd. 305,565; Aug. 22; Serial No. 337,131; published June 13, 1933.
Wines. Virginia Dare Extract Company. 305,648; Aug. 22; Serial No. 336,586; published June 6, 1933.

CLASS 48

Beer. Cerveceria Cuauhtemoc, S. A. 305,668; Aug. 22; Serial No. 334,045; published June 6, 1933.
Beer. Gunther Brewing Co. 305,581; Aug. 22; Serial No. 337,335; published June 6, 1933.
Beer. Adam Scheidt Brewing Company. 305,560–1; Aug. 22; Serial Nos. 337,171–2; published June 6, 1933.
Beer. Louis Ziegler Brewing Company. 305,533; Aug. 22; Serial No. 336,894; published June 6, 1933.
Beer. Louis Ziegler Brewing Company. 305,535; Aug. 22; Serial No. 336,892; published June 6, 1933.
Beer. Louis Ziegler Brewing Company. 305,537; Aug. 22; Serial No. 336,692; published June 6, 1933.
Beer, ale, porter, etc. Kamm & Schellinger Brewing Co. 40,554; renewed June 9, 1933.
Beer-coloring. Emken Chemical Co. 94,518; renewed Dec. 9, 1933.
Malt beverage. Cerveceria Cuauhtemoc, S. A. 305,697; Aug. 22; Serial No. 334,046; published June 6, 1933.
Malt beverages. Monumental Perfect Brew Co. 305,607; Aug. 22; Serial No. 337,436; published June 13, 1933.
Malt beverages. Rainier Brewing Company. 305,765; Aug. 22; Serial No. 336,241; published June 6, 1933.
Malt beverages. Tacoma Brewing Co. 305,764; Aug. 22; Serial No. 336,238; published June 13, 1933.
Malt beverages and liquors. Fresenius Company. 305,610; Aug. 22; Serial No. 337,557; published June 13, 1933.

CLASS 49

Cognac brandy. Pellisson Pere & Cie. 305,583; Aug. 22; Serial No. 337,308; published June 6, 1933.
Cognac brandy. J. Santamaria y Cia, S. en C. 305,752; Aug. 22; Serial No. 335,136; published June 6, 1933.
Gin and other potable distilled liquors. J. & W. Nicholson & Co. Limited. 305,799; Aug. 22; Serial No. 336,049; published June 13, 1933.
Gin and whiskey. United Distillers Limited. 305,574–5; Aug. 22; Serial Nos. 337,373–4; published June 6, 1933.
Liquors, Distilled. Gautier Freres. 305,523; Aug. 22; Serial No. 336,608; published May 23, 1933.
Spirits, whiskey, and liquors, Potable. Distillers Corporation Limited. 305,787; Aug. 22; Serial No. 334,666; published June 6, 1933.
Whiskey and gin. United Distillers Limited. 305,576; Aug. 22; Serial No. 337,368; published June 6, 1933.
Whiskey and gin. United Distillers Limited. 305,577; Aug. 22; Serial No. 337,372; published June 6, 1933.
Whiskey and gin. United Distillers Limited. 305,579; Aug. 22; Serial No. 337,367; published June 6, 1933.
Whiskey and liquors. Wine and Spirit Vaults Limited. 305,816; Aug. 22; Serial No. 336,144; published June 6, 1933.
Whisky and other potable distilled liquors. J. & W. Nicholson & Co. Limited. 305,798; Aug. 22; Serial No. 336,048; published June 13, 1933.
Whisky and rum. Lancaster & Buil. 305,614; Aug. 22; Serial No. 337,612; published June 13, 1933.

LIST OF LABELS

Alice Dwight. For Marmalade. Mrs. A. H. Drury. 42,562; Aug. 22.
Atlas Special. For Beer. Atlas Brewing Company. 42,557; Aug. 22.
Blue Brook Coffee. For Coffee. Jewel Food Stores, Inc. 42,575; Aug. 22.
Blue Brook Oleomargarine. For Margarine. Jewel Food Stores, Inc. 42,579; Aug. 22.
Blue Brook Sliced Bacon. For Bacon. Jewel Food Stores, Inc. 42,576; Aug. 22.
Blue Jewel Breakfast Bacon. For Bacon. Jewel Food Stores, Inc. 42,578; Aug. 22.
Blue Jewel Peanut Butter. For Peanut Butter. Jewel Food Stores, Inc. 42,574; Aug. 22.
Boro-Jel. For Medical Preparation for the Lubrication of Surgical Instruments. Ulmer Pharmacal Company. 42,592; Aug. 22.
Bor-Zo-Phen. For Medical Preparation for the Dressing of Wounds and Skin Infections. Ulmer Pharmacal Company. 42,591; Aug. 22.
Braumeister. For Lager Beer. Independent Milwaukee Brewery. 42,571; Aug. 22.
Brockelman Gold Bond Butter. For Butter. Brockelman Bros. Inc. 42,560; Aug. 22.
Cal-Zo. For Medical Preparation for the Treatment of Varicose and other Stubborn Ulcers. Ulmer Pharmacal Company. 42,593; Aug. 22.
Cobb's Wheatie Bread. For Bread. Menasha Products Company. 42,582; Aug. 22.
Dovol. For Peroxide. Schuylkill Chemical Company. 42,587; Aug. 22.
Dr. Ernest's Digesta—Liquid and Tablets. For Preparations in Liquid and Tablet Form for the Relief of Digestic Disturbances and Stomachic Disorders. E. G. Rurup. 42,584; Aug. 22.
Forget-me-not. For Ice Cream Bars. Emblem Food Products Corporation. 42,565; Aug. 22.
Globe Beer. For Beer. Globe Brewing Co. 42,569; Aug. 22.
Hahn's Bavarian Style Brew. For Lager Beer. P. Hahn. 42,570; Aug. 22.
Hearst Ranch. For Sliced Peaches. Sunical Packing Company. 42,890; Aug. 22.
Hot-Cha. For Chili Con Carne. Foell Packing Company. 42,566; Aug. 22.
Jiffy Jots Tablet. For Tablets. White & Wyckoff Mfg. Co. 42,595; Aug. 22.
Junior Mates Shoes for Children. For Shoes. Bird & Son, Inc. 42,559; Aug. 22.
Man'kin Tea, for a Fashionable Figure. For Tea in the Nature of a Herbaceous Laxative. M. Silberman. 42,589; Aug. 22.
Mascot. For Dog Food. Foell Packing Company. 42,567; Aug. 22.
Molded-Fit. For Swimming Suits. Jantzen Knitting Mills. 42,573; Aug. 22.
One Ready-to-Make By-Lock Window Screen. For Ready-to-Make Window Screens. By-Lock Company. 42,586; Aug. 22.
Picro-Benzyl. For Medical Preparation for the Treatment of Burns. Ulmer Pharmacal Company. 42,594; Aug. 22.
Quality. For Coffee. Dwinell-Wright Company. 42,564; Aug. 22.
Re-Duce-Olds—Capsules for Reducing Forms of Fat and Superfluous Weight. For Preparations in Capsule Form for the Reduction of Weight. E. G. Rurup. 42,585; Aug. 22.
Ring-Pruf. For Hosiery. Merit Associated Hosiery Mills, Inc. 42,583; Aug. 22.
Royal Jewel Canadian Back Bacon. For Bacon. Jewel Food Stores, Inc. 42,577; Aug. 22.
Selected Coffee. For Coffee. Dwinell-Wright Company. 42,563; Aug. 22.

LIST OF LABELS

Serious Thought about Ice Cream. For Ice Cream. A. E. Mac Adam & Co. Inc. 42,581; Aug. 22.

Shaw Automobile 12,000 Mile Prepaid Lubrication Record. For Automobile Lubrication Records. A. C. Shaw. 42,588; Aug. 22.

Shur-Good. For Sauer Kraut. Bellevue Kraut & Pickling Company. 42,558; Aug. 22.

Softasilk. For Cake Flour. General Mills, Inc. 42,568; Aug. 22.

Speedway Hats. For Hats. Arkin Hat Corporation. 10,000 Crofoot No. 1 Staples. For Staples. J. B. Crofoot Co. 42,561; Aug. 22.

42,556; Aug. 22.

Waukesha. For Canned Green Peas. J. B. Inderrieden Co. 42,572; Aug. 22.

White King. For Granulated Soap. Los Angeles Soap Co. 42,580; Aug. 22.

World's Biggest Little Tablet. For Tablets. White & Wyckoff Mfg. Co. 42,596; Aug. 22.

LIST OF PRINTS

Drink My Dear Only Pilsenhof Beer. For Beer. M. Kirchman. 14,307; Aug. 22.

Glorette-Graphs. For Gloves. Glorette Associates. 14,306; Aug. 22.

Magic Chef. For Gas Ranges. American Stove Company. 14,308; Aug. 22.

Mastermixt Mayonnaise. For Mayonnaise Dressing. J. E. Cain. 14,304; Aug. 22.

Pabst Blue Ribbon the Beer of Quality. For Beer. Premier-Pabst Corporation. 14,308; Aug. 22.

To a Bottle of 'J. F.' For Whisky. James Ferguson & Sons (Glasgow) Limited. 14,305; Aug. 22.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 22D DAY OF AUGUST, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abram, Augustus T., Bronx, N. Y. Aeroplane. 1,923,249; Aug. 22.

Adams, J. D., Manufacturing Company. (See Wallace, Floyd D., assignor.)

Adams, J. D., Manufacturing Company. (See Wallace, F. D., Cost, and Hartley, assignors.)

Adams, Victor N. (See Deits, Charles F., assignor.)

Adamson, Arthur W., New York, N. Y. Shade safety device. 1,923,698; Aug. 22.

Advance Machine Company. (See Richardson, Myron H., assignor.)

Agfa Ansco Corporation. (See Hebbel, Konrad, assignor.)

Ainslie, John N., Spokane, Wash. Berry box. 1,923,525; Aug. 22.

Air Way Pump Company. (See Andreasen, Alfred C., assignor.)

Ajax Electric Company. (See Campbell, Donald F., assignor.)

Aktiebolaget Ljungströms Angturbin. (See Lysholm, A., Ljungström, and Eriksson, assignors.)

Albach, Frank, and G. R. Chervenka, assignors to Fred Medart Manufacturing Company, St. Louis, Mo. Latching mechanism. 1,923,903; Aug. 22.

Alberts, Willi, Breslau, Germany. Vehicle headlight. 1,923,181; Aug. 22.

Albertuswerke Gesellschaft mit beschrankter Haftung. (See Stahn, A., and Berghaus, assignors.)

Alemite Corporation. (See Zerk, Oscar U., assignor.)

Allen, Edwin H., and G. H. Connors, assignors to Highway Trailer Company, Edgerton, Wis. Adjustable drawbar. 1,923,904; Aug. 22.

Allen, Harry L., assignor to The Bruce-Macbeth Engine Company, Cleveland, Ohio. Cleaning and cooling gas scrubbing water and apparatus therefor. 1,923,185; Aug. 22.

Allen, Horace L. (See Carley, L. R., Scott, and Allen.)

Allied Process Corporation. (See Smith, Walter C., assignor.)

Allis-Chalmers Manufacturing Company. (See Mainland, John, assignor.)

Allis-Chalmers Manufacturing Company. (See Tucker, William B., assignor.)

Alpine Ice Cream Co. (See Papas, Nick, assignor.)

Alsaker, Alfred, and E. S. Corneliussen (called Cornell), assignors to The Delta-Star Electric Company, Chicago, Ill. Double disconnect switch. 1,923,905; Aug. 22.

Alt, Arthur, Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Production of amino trimethylbenzenes. 1,923,697; Aug. 22.

Altenkirch, Edmund, Fredersdorf, near Alt-Landsberg (Ostbahn), Germany, assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio. Absorption method and apparatus. Re18,924; Aug. 22.

Aluminum Company of America. (See Moore, George L., assignor.)

Ambrose, Thomas H., and E. J. Elmer, Monroe, Mich., assignor of one-fourth to J. E. Brailey and one-fourth to C. E. La Beau, Toledo, Ohio. Headlight. 1,923,663; Aug. 22.

American Brakeblok Corporation. (See Blumé, William A., assignor.)

American Coach & Body Company, The. (See Larsen, Neil P., assignor.)

American Cyanamid Company. (See Hansen, Waldemar C., assignor.)

American Glansstoff Corporation. (See Gollong, Richard J., assignor.)

American Glansstoff Corporation. (See Gram, Carl F., assignor.)

American Hardware Corporation, The. (See Hurd, Norman B., assignor.)

American Meter Company. (See Diehl, John C., assignor.)

American Optical Company. (See Baker, Nelson M., assignor.)

American Optical Company. (See Glancy, Anna E., assignor.)

American Radiator Company. (See Brabbée, Charles W., assignor.)

American Radiator Company. (See Ludwig, Edgar V., assignor.)

American Slicing Machine Company. (See Campbell, William J., assignor.)

American Steel Foundries. (See Blakeslee, Jerome K., assignor.)

American Steel Foundries. (See Kinne, Edmund P., assignor.)

American Swiss Company, The. (See Rightmyer, Halden W., assignor.)

American Tractor Equipment Co. (See Bacon, Edward R., assignor.)

Ames Baldwin Wyoming Shovel Co. (See Wharton, George C., assignor.)

Anchor Cap & Closure Corporation. (See Scofield, assignor.)

Anderson, James, Ashland City, Tenn. Powder sprayer. 1,924,013; Aug. 22.

Andreasen, Alfred C., Oak Park, assignor to Air Way Pump Company, Chicago, Ill. Spraying mechanism. 1,923,654; Aug. 22.

Andrews, George G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Bead building machine. 1,923,699; Aug. 22.

Angle, James L. (See Youngs, G. L., and Angle.)

Anstiss, George P., River Forest, assignor to G. S. Blakeslee & Co., Cicero, Ill. Peeling machine. 1,923,806; Aug. 22.

Appel, August, Vienna, Austria. Fuse for electric circuits. 1,924,014; Aug. 22.

Appelius, Fritz, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk Siemensstadt, near Berlin, Germany. Counting-relay switch. 1,923,060; Aug. 22.

Apple, Vincent G., Dayton, Ohio, assignor to Bendix Brake Company, South Bend, Ind. Vehicle brake. 1,924,046; Aug. 22.

Arden Box Toe Company. (See Lovell, Stanley P., assignor.)

Arduser, Joseph O., assignor to D. C. Jenkins Glass Company, Kokomo, Ind. Goblet. Des. 90,520; Aug. 22.

Armantrout, Lynn L., Minneapolis, and C. R. McCue, Rochester, Minn. Gravity feed oiler. 1,923,857; Aug. 22.

Armorite Equipment Incorporated. (See Clark, Raymond L., assignor.)

Armstrong, George A., Youngstown, Ohio. Lock device. 1,923,411; Aug. 22.

Armstrong, Sir W. G., Whitworth and Company (Engineers) Limited. (See Pratt, James, assignor.)

Arnold, Christian, Cologne-Kalk, Germany. Manufacture of steel. 1,923,471; Aug. 22.

Arrow-Hart & Hegeman Electric Company, The. (See Harrington, William H., assignor.)

Asch, Joseph C., Montreal, Quebec, Canada. Illuminating device and manufacturing same. 1,923,807; Aug. 22.

Ashworth, Fred, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel machine. 1,923,068; Aug. 22.

Ashworth, Fred, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Thread treating apparatus for sewing machines. 1,923,563; Aug. 22.

Associated Electric Laboratories, Inc. (See Wood, Frederic E., assignor.)

Associated Telephone and Telegraph Company. (See Caswell, Arthur B., assignor.)

Associated Telephone and Telegraph Company. (See Gillings, C., and Belas, assignors.)

Austin, Arthur O., near Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Condenser lightning protection device. 1,923,564; Aug. 22.

Austin, Arthur O., near Barberton, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio. Testing apparatus and method. 1,923,565; Aug. 22.

Autogiro Company of America. (See Morse, Roy W., assignor.)

Automotive Maintenance Machinery Co. (See Zimmerman, Herman W., assignor.)

Autopoint Company. (See Dell, F. C., Groseclose, and Foth, assignors.)

Auto Radiator Manufacturing Co. (See Kirsch, Benjamin, assignor.)

Aviation Patent and Research Corporation. (See Miller, Roy G., assignor.)

Avilla, Anthony B., and J. B. Avilla, Woodland, Calif., Hay rake. 1,923,606; Aug. 22.

Avilla, Joseph B. (See Avilla, Anthony and J. B.)

Ayad, Ibrahim B., Paris, France. Aerial safety device. 1,923,963; Aug. 22.

B. & G. Coin Selectors, Incorporated. (See Gottfried, John, assignor.)

Babcock & Wilcox Company, The. (See Kerr, H. J., and Black, assignors.)

Babcock & Wilcox Company, The. (See Lucke, Charles E., assignor.)

Bach, Edward J., East Orange, N. J., assignor of one-half to Mont D. Rogers, Pelham Manor, N. Y. Coring machine. 1,923,060; Aug. 22.

Bacon, Charles J., Waynesboro, Va., assignor to Du Pont Rayon Company, New York, N. Y. Tinting thread. 1,923,136; Aug. 22.

Bacon, Edward R., San Francisco, assignor to American Tractor Equipment Co., Oakland, Calif. Bulldoser. 1,923,412; Aug. 22.

Baird, William Y., Winchester, Mass. Refrigerating apparatus. 1,923,472; Aug. 22.

Baker, Albert F. (See Marple, R., and Baker.)

Baker, John. (See Hinsch, W. H., and Baker.)

Baker, John F. L., assignor to Wickes Boiler Co., Saginaw, Mich. Manipulating the dust-blower plugs of water tube boilers. 1,923,770; Aug. 22.

Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,923,566; Aug. 22.

Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Ophtalmic mounting. 1,923,567; Aug. 22.

Ball & Roller Bearing Company, The. (See Rockwell, George G., assignor.)

Baith, Charles, Sag Harbor, N. Y. Compound tool. 1,924,015; Aug. 22.

Baltimore Gas Engineering Corporation, The. (See Looker, C. D., Kester, Hass, and Friend, assignors.)

Banks, George. (See Udine, Fred F., assignor.)

Barclay, McClelland, Los Angeles, Calif. Combined automobile front fender and running board. Des. 90,521; Aug. 22.

Bares, Rudolph, and A. C. Wood, assignors to Vortex Cup Company, Chicago, Ill. Counter for cup machines. 1,923,061; Aug. 22.

Barkeij Jean A. H., Los Angeles, Calif. Crank-shaft lubrication. 1,923,806; Aug. 22.

Barmer Maschinenfabrik A.-G. (See Zinselmeyer, Walter, assignor.)

Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N Y. Typewriting machine. 1,923,771; Aug. 22.

Barone, Ralph, Newark, N. J. Ornamenting tool. 1,923,250; Aug. 22.

Barr, Walter A., Fort Wayne, Ind., assignor to Western Gas Construction Company. Flow control apparatus. 1,923,655; Aug. 22.

Barrett, Edward L., assignor to Utah Radio Products Co., Chicago, Ill. Motor actuated circuit controlling means. 1,924,082; Aug. 22.

Barringer, Leonidas H., Charleston, W. Va. Football game. 1,923,607; Aug. 22.

Barrows, Ransom J., Jamestown, N. Y. Spinal appliance. 1,924,016; Aug. 22.

Bassett, Harry P., Cynthiana, Ky. Purification of cellulose material. 1,923,292; Aug. 22.

Bates, Fannie A., West Palm Beach, Fla. Device for keeping an infant under crib covers. 1,923,809; Aug. 22.

Batkin, Isaac. (See Provensano, Emil, assignor.)

Bauer, Gustav, Hamburg, and C. Schmieske, Bremen, Germany. Gas or steam turbine casing. 1,926,251; Aug. 22.

Baumann, Paul. (See Eisenhut, O., Schilling, and Baumann.)

Bazeley, Arthur J., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Uncoupling mechanism for car couplers. 1,923,137; Aug. 22.

Beall, Herbert W. (See Moise, H. D., and Beall.)

Beard, Bert, assignor to G. M. Holley, Detroit, Mich. Downdraft carburetor. 1,923,478; Aug. 22.

Bearman, Harry C., Springfield, assignor to J. B. and C. A. Dana, receivers of The (Pierce) Fisk Rubber Company, Chicopee Falls, Mass. Multiple bead positioning ring. 1,923,062; Aug. 22.

Becker, Julius H., San Francisco, Calif. Pressure indicator. 1,923,413; Aug. 22.

Becker, Leo, Youngstown, Ohio. Cross rolling. 1,923,700; Aug. 22.

Bedford, Jesse, assignor of one-half to M. C. Park, Luton, England. Hydraulic transmission mechanism. 1,924,017; Aug. 22.

Beekley, John S., Charleston, W. Va., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Heat recovery system. 1,923,656; Aug. 22.

Beers, Lucius H., West Hampton Beach, N. Y. Mooring device. 1,923,657; Aug. 22.

Begley, William E., and H. H. McGregor, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Mold treating apparatus. 1,924,018; Aug. 22.

Beglinger, Edward. (See Sherrard, E. C., and Beglinger.)

Beiersdorf, P., & Co., the Firm. (See Steinert, Abraham, assignor.)

Behimer, Otto, Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Treating hydrocarbon oils. 1,923,526; Aug. 22.

Beiersdorf, P., & Co. Inc. (See Legerlotz, Helmut, assignor.)

Belas, Francis T. (See Gillings, C., and Belas.)

Belknap, William J., Detroit, Mich., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Safety glass. 1,923,070; Aug. 22.

Bell & Howell Company, The. (See Howell, Albert S., assignor.)

Bell Punch Company Limited. (See Black, Horace D., assignor.)

Bell Telephone Laboratories, Incorporated. (See Lawrence, Walter L., assignor.)

Bell Telephone Laboratories, Incorporated. (See Pidgeon, H. A., and McNally, assignors.)

Bem, Joseph P., assignor to Pacific Pitting Machine Company, Inc., Fresno, Calif. Fruit pitting machine. 1,923,474; Aug. 22.

Bem, Joseph P., Oakland, assignor to Pacific Pitting Machine Company Inc., Fresno, Calif. Fruit pitter. 1,923,475; Aug. 22.

Bendix Brake Company. (See Apple, Vincent G., assignor.)

Bendix Brake Company. (See Bendix, Vincent, assignor.)

Bendix Brake Company. (See Hirvonen, Erik J., assignor.)

Bendix Brake Company. (See Sanford, Roy S., assignor.)

Bendix, Vincent, Chicago, Ill., assignor to Bendix Brake Company, South Bend, Ind. Brake operating mechanism. 1,923,182; Aug. 22.

Benedict Stone Products Company. (See Lowell, John W., assignor.)

Benit, Henri, Paris, France. Strain insulator chain. 1,924,056; Aug. 22.

Benjamin, David, Cleveland Heights, assignor to The Gabriel Company, Cleveland, Ohio. Ball-and-socket connection. 1,923,414; Aug. 22.

Bennett, George E., Middle Grove, Ill. Gear shift for automobiles. 1,923,905; Aug. 22.

Benoit, Leon. (See Coyle, Joseph L., assignor.)

Benton, Roy E., Elyria, Ohio. Tool. 1,923,964; Aug. 22.

Berga, Oscar, and L. A. Rambo, Amboy, Ill. Ear corn crusher. 1,924,019; Aug. 22.

Bergdoll, John G., assignor to York Ice Machinery Corporation, York, Pa. Expansion valve. 1,923,810; Aug. 22.

Berger, Louis A., assignor to Simplex Steel Products Company, Chicago, Ill. Building construction. 1,923,906; Aug. 22.

Berghaus, Bruno. (See Stahn, A., and Berghaus.)

Bergstrom, Herbert G., and G. B. Martin, assignors to The Hargrove Company, Des Moines, Iowa. Receptacle cover and mounting structure. 1,923,063; Aug. 22.

Berry, Benjamin F., assignor to Berry Machine Company, St. Louis, Mo. Gauge for cutting machines. 1,923,293; Aug. 22.

Berry Machine Company. (See Berry, Benjamin F., assignor.)

Bertsch, Heinrich, assignor to H. Th. Böhme Aktiengesellschaft, Chemnitz, Germany. Preparation of aliphatic sulphoacids. 1,923,608; Aug. 22.

Better Packages, Inc. (See Keck, Arthur, assignor.)

Betulander, Gotthilf A., Sodertorns Villastad, Sweden. Arrangement in relay-combination groups. 1,924,064; Aug. 22.

Bihet, Oscar, Flemalle Haute, Belgium. Tight joint for pipings. 1,924,020; Aug. 22.

Bingham, George C., Maldon, England. Machine for plucking and stubbing birds. 1,923,415; Aug. 22.

Bird & Son, Inc. (See Levis, Robert B., assignor.)

Black, Horace D., assignor to Bell Punch Company Limited, Uxbridge, England. Mechanism for feeding paper and like webs. 1,923,609; Aug. 22.

Black, John E. (See Kerr, H. J., and Black.)

Blackburn, Jasper, Webster Groves, and H. W. Heller, St. Louis, Mo.; said Heller assignor to said Blackburn. Guy wire guard. 1,923,858; Aug. 22.

Blackwell and Sunde, Inc. (See McCoy, A. G., and Sunde, assignors.)

Blakeslee, G. S., & Co. (See Anstiss, George P., assignor.)

Blakeslee, Jerome K., assignor to American Steel Foundries, Chicago, Ill. Tool. 1,923,658; Aug. 22.

Blaschk, Willy, Berlin, Germany. Device for preventing the theft or unauthorized use of automobiles. 1,923,907; Aug. 22.

Blaw-Knox Company. (See McCrery, Harold E., assignor.)

Bliss, E. W., Company. (See Krueger, Frank, assignor.)

Bliss, E. W., Company. (See Kruse, Peter, assignor.)

Blom, Ella B., Jackson Heights, N. Y. Pouch for toilet articles. 1,923,071; Aug. 22.

Blomgren, Oscar C., Winnetka, Ill. Armature turning and undercutting lathe. 1,923,416; Aug. 22.

Bludworth, Joseph E., Eastland, Tex., assignor to Hanlon-Buchanan, Inc., Tulsa, Okla. Oxidizing gaseous hydrocarbons. 1,923,610; Aug. 22.

Bluemmel, Frans. (See Kralkalla, H., and Bluemmel.)

Blum, Hans J., New York, N. Y. Filament spinning apparatus. 1,923,183; Aug. 22.

Blume, William A., Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y. Friction element. 1,924,021; Aug. 22.

Blumenthal, Alexander E., Pittsburgh, Pa. Sign. Des. 90,522; Aug. 22.

Boenning, William M., Manitowoc, Wis. Folding furniture leg. 1,923,417; Aug. 22.

Boesel, Otto A., Ansonia, assignor to The H. A. Matthews Manufacturing Company, Seymour, Conn. Display reel for strip material. Des. 90,523; Aug. 22.

Boggs, Charles R., Waban, assignor to Simplex Wire and Cable Company, Boston, Mass. Electric cord and cable. 1,923,859; Aug. 22.

Bogin, Charles. (See Kelly, V., and Bogin.)

Bogin, Charles, Terre Haute, Ind., and V. Kelly, Chicago, Ill., assignors to Commercial Solvents Corporation, Terre Haute, Ind. Nongelling lacquer. 1,923,702; Aug. 22.

Bogin, Charles, Terre Haute, and V. Kelly, Chicago, Ill., assignors to Commercial Solvents Corporation, Terre Haute, Ind. Nongelling lacquer. 1,923,703; Aug. 22.

Bohli, Jakob, assignor to Scintilla Aktiengesellschaft, Solothurn, Switzerland. Magneto-electric ignition apparatus. 1,923,184; Aug. 22.

Böhme, H. Th., Aktiengesellschaft. (See Bertsch, Heinrich, assignor.)

Bohn, Gebhard C., assignor to H. Bohn, St. Paul, Minn. Refrigerator door. 1,923,701; Aug. 22.

Bohn, Harold. (See Bohn, Gebhard C., assignor.)

Bolton, David J., Monterey, assignor to Theatre Scripstamp Corporation of America, San Francisco, Calif. Merchant's trading stamp. Des. 90,524; Aug. 22.

Bone, Herbert L., assignor to The Union Switch & Signal Company, Swissvale, Pa. Clutch device. 1,923,568; Aug. 22.

Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Forming suspension wire wheels. 1,923,476; Aug. 22.

Boss Manufacturing Company, The. (See Shiner, Calvin J., assignor.)

Bothmann, Hans. (See Schmidt, W., Bothmann, and Ruhrmann.)

Bowen, Lester W., Larchmont, N. Y., assignor to Trans-Lux Daylight Picture Screen Corporation, New York, N. Y. Sound reproducing device. 1,923,072; Aug. 22.

Bowen Products Corporation. (See Gleason, Frederick H., assignor.)

Bowen, William S., Westfield, N. J. Desiccating apparatus. 1,923,659; Aug. 22.

Boynton, Arthur J., Chicago, Ill., and F. A. De Lisle, New York, N. Y., assignors to H. A. Brassert & Company, Chicago, Ill. Method and apparatus for continuous filtering. 1,923,138; Aug. 22.

Bozarth, Harry, Muskogee, Okla. Turning machine. 1,923,611; Aug. 22.

Brabbée, Charles W., Bronxville, assignor to American Radiator Company, New York, N. Y. Boiler. 1,924,077; Aug. 22.

Bracken, Martin L., New York, N. Y. Record-keeping device. 1,923,064; Aug. 22.

Bradley, Theodore F., Westfield, assignor to Ellis-Foster Company, Montclair, N. J. Viscosity reduced coating composition. 1,923,704; Aug. 22.

Bradley, Theodore F., Westfield, assignor to Ellis-Foster Company, Montclair, N. J. Useful lacquer composition made from low boiling solvents. 1,923,715; Aug. 22.

Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliesrath, Port Washington, N. Y., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y. Hydraulic brake system for automotive vehicles. 1,923,185; Aug. 22.

Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliesrath, Port Washington, N. Y., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y. Brake system for automotive vehicles. 1,923,186; Aug. 22.

Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliesrath, South Bend, Ind., assignors to Bragg-Kliesrath Corporation, South Bend, Ind. Power actuator. 1,923,187; Aug. 22.

Bragg-Kliesrath Corporation. (See Bragg, C. S., and Kliesrath, assignors.)

Brailey, James E., et al. (See Ambrose, T. H., and Elmer, assignors.)

Brassert, H. A., & Company. (See Boynton, A. J., and De Lisle, assignors.)

Breitenstein, Albert F., assignor to The Geometric Tool Company, New Haven, Conn. Self-opening die head. 1,923,074; Aug. 22.

Brell, Jules J., assignor of one-third to H. Radsinsky, New York, N. Y. Electrical connection device. 1,923,073; Aug. 22.

Brennan, Joseph B., Lexington, Mass. Acoustic diaphragm. 1,923,965; Aug. 22.

Brennan, Joseph B., Lexington, Mass. Constructing acoustic diaphragms. 1,923,966; Aug. 22.

Brewer, Ethel P., Wayne, N. J. Window curtain tieback. Des. 90,525; Aug. 22.

Bridgeport Switch Company, The. (See Engstrom, Henry O., assignor.)

Bright Star Battery Company. (See Desimone, Anthony J., assignor.)

Bristol, Cyrus J., assignor to Globe Machinery & Supply Company, Des Moines, Iowa. Hydraulic lift. 1,923,418; Aug. 22.

British Electrical and Allied Industries Research Association. (See Whitney, W. B., and Wedmore, assignors.)

Britton, Edgar C., assignor to The Dow Chemical Company, Midland, Mich. Preparation of trichlorobensene. 1,923,419; Aug. 22.

Brockway, Carl P., Ridgewood, N. J., assignor to Industrial Research Corporation, Toledo, Ohio. Engine starter. 1,923,908; Aug. 22.

Brockway Machine Bottle Company. (See Helt, Clarence R., assignor.)

Brogden, Ernest M., Pomona, assignor to Brogdex Company, Los Angeles, Calif. Apparatus for handling fresh fruits. 1,924,078; Aug. 22.

Brogdex Company. (See Brogden, Ernest M., assignor.)

Brolly, Archibald H., assignor to Television Laboratories, Inc., San Francisco, Calif. Phasing device. 1,923,252; Aug. 22.

Bronander, Wilhelm B., Montclair, N. J. Fire alarm and fire extinguisher device. 1,923,600; Aug. 22.

Brown Company. (See Hill, Roger B., assignor.)

Brown Company. (See Richter, George A., assignor.)

Brown, Eugene H., jr., Troy, N. Y. Combined vise and chuck holding block. 1,923,967; Aug. 22.

Brown, George MacK., London, England. Apparatus for surfacing sheet material with pigments, varnishes, lacquers, or the like. 1,923,909; Aug. 22.

Brown, Theophilus, assignor to Deere & Company, Moline, Ill., Agricultural implement. 1,923,253; Aug. 22.

Brown, Walter, Toledo, Ohio. Composite metal article and forming the same. 1,923,075; Aug. 22.

Brownlee, Kenneth H., Evanston, Ill. Ventilator for vehicle bodies. 1,923,294; Aug. 22.

Bruce-Macbeth Engine Company, The. (See Allen, Harry L., assignor.)

Brueshaber, Martin W., River Forest, assignors to The Goss Printing Press Co., Chicago, Ill. Printing press. 1,923,910; Aug. 22.

Buckle, Horace L. T., Buckinghamshire, and H. A. Thompsett, Ealing, London, England, assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y. Talking machine. 1,923,558; Aug. 22.

Budd, Edward G., Manufacturing Company. (See Leonard, L. H., and Whitesell, jr., assignors.)

Budd Wheel Company. (See Hughes, James W., assignor.)

Budd Wheel Company. (See Otte, Otho M., assignor.)

Budiloff, Nicolai. (See Jenny, A., Siebeneicher, and Budiloff.)

Bull, Johan A., Horten, Norway. Torpedo for launching from a flying machine. 1,923,612; Aug. 22.

Bunbury, Hugh M., Prestwich, J. S. H. Davies, Crumpsall, and W. J. S. Naunton, Prestwich, England, assignors to Imperial Chemical Industries Limited. Treating rubber and the improved age resisting rubber produced thereby. 1,923,911; Aug. 22.

Bunker, Dinsmore L., Auburn, Maine, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe sewing machine. 1,923,139; Aug. 22.

Burch, Fred, Milford, Mich. Cushion construction. 1,924,022; Aug. 22.

Burger, Frederick W., Niles, assignor to Clark Equipment Company, Buchanan, Mich. Wheel for motor vehicles. 1,923,811; Aug. 22.

Burgess, Louis, New York, N. Y. Arc furnace for reducing oxides with carbon under pressure. 1,923,076; Aug. 22.

Burnham Chemical Company. (See Woodward, Henry T., assignor.)

Burstyn, Walther, and W. Tausig, Berlin, Germany, assignors to Radio Patents Corporation, New York, N. Y. Direct coupled amplifier. 1,923,254; Aug. 22.

Burton, Charles S. (See Edwards, W. A., and Burton.)

Cabad Corporation of America. (See Karlin, Nathan A., assignor.)

Camines, Harold. (See White, J. A., and Camines.)

Campbell, Donald F., London, England, assignor to Ajax Electric Company, Inc., Philadelphia, Pa. Supporting resistor coils in electric furnaces. 1,924,079; Aug. 22.

Campbell, John F., and J. D. Thomson, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Pneumatic tire building chuck. 1,923,705; Aug. 22.

Campbell, Rodney B. (See Herbsman, A. M., and Campbell.)

Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,923,860; Aug. 22.

Cardwell Westinghouse Company. (See Sproul, Donald F., assignor.)

Carey, John, New York, N. Y. Punctureproof tire. 1,923,661; Aug. 22;

Carey, Philip Manufacturing Company, The. (See Fischer, Albert C., assignor.)

Carlberg, August E., Worcester, Mass. Adjustable wrench. 1,924,023; Aug. 22.

Carley, Leonard R., Watertown, R. B. Scott, Waterbury, Conn., and H. L. Allen, New York, N. Y. Switch. 1,923,613; Aug. 22.

Carlson, Gosta R., Raritan, N. J. Illuminating device for hydrometers and the like. 1,924,024; Aug. 22.

Carnell, Joseph, Washington, D. C. Permanent waving apparatus. 1,923,527; Aug. 22.

Carpenter, Oliver K., New Cumberland, W. Va., assignor to The Duraloy Company, Pittsburgh, Pa. Conveyer for furnaces. 1 923,772; Aug. 22.

Carpenter, Oliver K., New Cumberland, W. Va., assignor to The Duraloy Company, Pittsburgh, Pa. Furnace conveyer shaft. 1,923,773; Aug. 22.

Carpenter, Paul, Chicago, Ill. Plug valve. 1,923,295; Aug. 22.

Carr, Raymond L., Boston, Mass. Vehicle body. 1,923,077; Aug. 22.

Carter Carburetor Corporation. (See Ericson, George R., assignor.)

Carter, Raymond S., and H. G. Dick, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Manufacturing belts. 1,924,083; Aug. 22.

Cash, A. W., Company. (See Temple, Paul C., assignor.)

Cassedy, William F., jr. (See Coe, E. R. C., and Cassedy, jr.)

Casterline, David M., assignor to Wayne Company, Fort Wayne, Ind. Expansion chamber. 1,923,912; Aug. 22.
Castricum, Martin, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass., John B. Pierce and Charles A. Dana, receivers. Method of and machine for testing materials. 1,923,296; Aug. 22.
Caswell, Arthur E., Liverpool, England, assignor to Associated Telephone and Telegraph Company, Chicago, Ill. Telephone system. 1,923,662; Aug. 22.
Catalytic Process Corporation. (See Clark, Cyril B., assignor.)
Caterpillar Tractor Co. (See Patterson, Elmer, assignor.)
Caterpillar Tractor Co. (See Wickersham, Elmer E., assignor.)
Catland, Alfred C. (See Howard, J. H., and Catland.)
Celanese Corporation of America. (See Moss, William H., assignor.)
Ceramic Machinery Co. (See Yingling, Frank B., assignor.)
Chalmers, John W. (See Molins, W. E., and Chalmers.)
Chambers, Isaac M., Altoona, Pa. Trailer vehicle. 1,923,255; Aug. 22.
Chambers, John T., New Orleans, La. Apparatus for constructing levees and the like. 1,923,913; Aug. 22.
Chapman, Frank D., Berlin, Wis. Heat treating substances. 1,923,421; Aug. 22.
Chase, George B., Pocatello, Idaho. Combination table. 1,923,969; Aug. 22.
Chase, Horace S., New York, N. Y. Control device. 1,923,968; Aug. 22.
"Chatillon" Societa Anonima Italiana per la Seta Artificiale. (See Maximoff, Alexander T., assignor.)
Chemical Construction Corporation. (See Hechenbleikner, Ingenuin, assignor.)
Chemical Works formerly Sandoz. (See Kreis, Walter, assignor.)
Cherry, Lester A., Kenmore, C. N. Fuller, Tonawanda, and A. H. Lane, Buffalo, assignors to H. W. Hilliard Co. Inc., Buffalo, N. Y. Machine for affixing opening threads to envelopes. 1,923,914; Aug. 22.
Chervenka, George R. (See Albach, F., and Chervenka.)
Chicago Flexible Shaft Company. (See McArdle, M. W., and Jeppeson, assignors.)
Chicago Forking & Manufacturing Co. (See Mears, Norton A., assignor.)
Chilton Pen Company, The. (See Krause, Henry, assignor.)
Chobert, Jacques, St.-Etienne, Loire, France. Tensioning device for wires, cords, or metal rods. 1,923,812; Aug. 22.
Christiansen, Ejnar, Birmingham, England. Intermittently delivering jam, custard, or other material in predetermined quantities. 1,923,188; Aug. 22.
Chrzescinski, Otto. (See Nawiasky, P., and Schrzescinsky.)
Church, Arthur W., et al., executors. (See Pushee, George D.)
Cincinnati Tool Company, The. (See Harland, Albert T., assignor.)
Clark Box Company, The. (See Merritt, Charles H., assignor.)
Clark, Cyril B., Scarsdale, assignor to Catalytic Process Corporation, New York, N. Y. Making contact sulphuric acid. 1,923,256; Aug. 22.
Clark Equipment Company. (See Burger, Frederick W., assignor.)
Clark Equipment Company. (See Spatta, George, assignor.)
Clark, Harold W. (See Hoskins, William, assignor.)
Clark, Leroy V. (See Spaeth, C. P., and Clark.)
Clark, Raymond L., assignor, by mesne assignments, to Armorite Equipment Incorporated, Rochester, N. Y. Stupefying gas distributor. 1,924,025; Aug. 22.
Clark, Raymond L., assignor, by mesne assignments, to Armorite Equipment Incorporated, Rochester, N. Y. Institutional bed. 1,924,026; Aug. 22.
Clark, Thomas H., Marion, Ohio. Burial vault. 1,924,027; Aug. 22.
Clarkson, Thomas, Wilmington, Del. Burner control system. 1,923,614; Aug. 22.
Clavel, René, Basel, Switzerland. Loading artificial silk containing fabrics. 1,923,189; Aug. 22.
Clayton Aniline Company, the Firm. (See Robinson, Rona, assignor.)
Clemens, John A., Providence, R. I., assignor to Davol Rubber Company. Foldable container and blank therefor. 1,923,065; Aug. 22.
Cleveland Graphite Bronze Company, The. (See Stockfleth, Berger, assignor.)
Cleveland Pneumatic Tool Company, The. (See De Mooy, John, assignor.)
Cleveland Rock Drill Company, The. (See Renfer, John E., assignor.)
Cleveland Rock Drill Company, The. (See Richardson, Leo L., assignor.)
Clifford, Albert M., Stow, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Age retarder. 1,923,706; Aug. 22.
Clifford, Albert M., Stow, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Antioxidant. 1,923,707; Aug. 22.
Clinical Supplies, Incorporated. (See Ziegler, Charles E., assignor.)
Clum Manufacturing Company. (See Winning, Robert K., assignor.)
Coda, Christopher F., Detroit, Mich. Machine for serrating tubes and the like. 1,923,477; Aug. 22.
Coda, Christopher F., Detroit, Mich, assignor to The Murray Corporation of America. Machinery for handling chassis frames. 1,923,663; Aug. 22.
Cody, Clifford S., Sharon Hill, Pa., assignor to Westinghouse Electric & Manufacturing Company. Combustion apparatus. 1,923,528; Aug. 22.
Coe, Eric R. C., Summit, and W. F. Cassedy, Jr., Milburn, assignors to International Communications Laboratories, Inc., Newark, N. J. Circuit interrupter. 1,923,708; Aug. 22.
Coffee, Bassett M., Jersey City, N. J., assignor, by mesne assignments, to Simplex Equipment Company, Inc., New York, N. Y. System of electrical distribution. 1,923,709; Aug. 22.
Cohen, Joseph H., Bridgeport, Conn. Ash receiver. 1,923,529; Aug. 22.
Collings, William R., and D. L. Gibb, assignors to The Dow Chemical Company, Midland, Mich. Apparatus for producing a composite reenforced sheet. 1,923,710; Aug. 22.
Columbia Axle Company, The. (See Weaver, Elverton W., assignor.)
Combustion Utilities Corporation. (See Johnson, Alfred, assignor.)
Commercial Solvents Corporation. (See Bogin, C., and Kelly, assignors.)
Commercial Solvents Corporation. (See Kelly, V., and Bogin, assignors.)
Coney, Joseph J. (See Hiller, S., and Coney.)
Conley, Ray A., Los Angeles, and C. Jordan, Culver City, Calif. Device for controlling the wetness of steam. 1,923,422; Aug. 22.
Connors, George H. (See Allen, E. H., and Connors.)
Conover Company, The. (See Stoddard, Edgar S., assignor.)
Consolidated Iron-Steel Manufacturing Company of 1932, The. (See Luton, John, assignor.)
Cook, Asa S., Company, The. (See Crosby, R. S., and Newton, assignors.)
Cooper, John, De Ridder, La. Indicating the force with which a baseball strikes a target. 1,923,297; Aug. 22.
Cordes, Arthur D., Chicago, Ill. Sound amplifying and conducting mechanism. 1,923,066; Aug. 22.
Corduan, Gustave F., assignor to Corduan Manufacturing Company, Chicago, Ill. Table. 1,923,067; Aug. 22.
Corduan Manufacturing Company. (See Corduan, Gustave F., assignor.)
Cornelissen, Elias S., (called Cornell). (See Alsaker, A., and Cornelissen, (called Cornell).)
Corning Glass Works. (See Locke, Fred M. and F. J., assignors.)
Corombos, George T., Iron Mountain, Mich. Glove. 1,923,298; Aug. 22.
Cost, William A. (See Wallace, F. D., Cost, and Hartley.)
Couch, Royden O., Grant, and L. B. Escrbach, Melbourne, Fla. Antiskid device for automobiles. 1,923,190; Aug. 22.
Coursey, Philip R., Richmond, England, assignor to Radio Patents Corporation, New York, N. Y. Selective circuit. 1,923,354; Aug. 22.
Coxhead, Ralph C., New York, N. Y., and C. W. Norton, Bridgeport, Conn. Adding machine ribbon mechanism. 1,923,078; Aug. 22.
Coyle, Joseph L., London, Ontario, Canada, assignor to L. Benoit, Chicago, Ill. Carton for eggs and the like. 1,923,774; Aug. 22.
Craig, John G., Stoughton, Wis. Tobacco lathe holder. 1,923,664; Aug. 22.
Creed & Company. (See Griffith, Ronald G., assignor.)
Crompton Parkinson Limited. (See Hockley, Harold W., assignor.)
Crosby, Reuben S., and F. E. Newton, assignors to The Asa S. Cook Company, Hartford, Conn. Machine for cutting screw threads. 1,923,423; Aug. 22.
Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Valve stem construction. 1,923,775; Aug. 22.
Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Pressure gauge. 1,923,776; Aug. 22.
Cullen, Harry E., and H. O. Ronning, assignors to H. P. Watson, Minneapolis, Minn. Shaft seal. 1,923,915; Aug. 22.
Curtin, Leo P., Cranbury, N. J. Making zinc meta-arsenite. 1,924,065; Aug. 22.
Cushman, Horace C., et al., executors. (See Pushee, George D.)
Cutler-Hammer, Inc. (See Hodgson, Howard E., assignor.)
Cutler-Hammer, Inc. (See Winkle, Hallock L., assignor.)
Dailey, John F., Rochester, N. Y. Combined automatic refrigerator and milk box. 1,923,191; Aug. 22.
Dailey, William O., Portland, Oreg. Fireplace guard screen. 1,923,424; Aug. 22.
Daimler-Benz Aktiengesellschaft. (See Nallinger, Fritz, assignor.)
Dam, Henry M. Rosendal, Floral Park, Long Island, N. Y., assignor to Noma Electric Corporation, New York, N. Y. Decorative illuminating unit. Des. 90,526; Aug. 22.
Dana, Charles A., et al., receivers. (See Bearman, Harry C., assignor.)
Dana, Charles A., et al., receivers. (See Castricum, Martin, assignor.)

Darbord, René H., Paris, France, assignor to International Communications Laboratories, Inc., New York, N. Y. Field strength measurement for ultra-short waves. 1,923,916; Aug. 22.
Darco Corporation. (See Davis, R. G., and Sanders, assignors.)
Darling, Lewis A. (See Graham, H. J., and Darling.)
Darling, Samuel M., Oak Park, Ill. Discardable dust bag for cleaners. 1,923,299; Aug. 22.
Darrah, Carl W., assignor to Harrison Radiator Corporation, Lockport, N. Y. Car heater. 1,923,855; Aug. 22.
David, Alfred. (See Murphy, Alice C., assignor.)
Davies, John S. H. (See Bunbury, H. M., Davies, and Naunton.)
Davis, Ernest, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Pressing machine control lock. 1,923,530; Aug. 22.
Davis, Kenneth, Edensburg, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del. Process and mechanism for separating intermixed divided materials. 1,923,917; Aug. 22.
Davis, Raymond G., and M. T. Sanders, assignors to Darco Corporation, Wilmington, Del. Process of and apparatus for making activated carbon. 1,923,918; Aug. 22.
Davol Rubber Company. (See Clemens, John A., assignor.)
Day, Charles I. (See Egy, W. L., Day, and Smart.)
Dean, William M., Oyster Bay, N. Y. Ice-cream dipper. 1,923,267; Aug. 22.
Decker, George R., Hamilton, Ohio, assignor of one-half to C. W. Jessup, Richmond, Ind. Induction water heater. 1,923,711; Aug. 22.
Deere & Company. (See Brown, Theophilus, assignor.)
Deere & Company. (See Silver, Walter H., assignor.)
Defiance Manufacturing Corporation. (See Phinney, Edgar E., assignor.)
De Fligué, Wladimir, and P. Lavallée, Paris, France. Battery ignition device. 1,923,615; Aug. 22.
De Flores, Luis, Pomfret, Conn. Aim perfecting attachment for guns. 1,923,531; Aug. 22.
Delts, Charles F., assignor to V. N. Adams, Miami, Fla. Tomato coring and peeling machine. 1,923,712; Aug. 22.
Delamere, Rudolf D., Toronto, Ontario, Canada. Blower unit. 1,923,079; Aug. 22.
Delaval-Crow, Thomas C., assignor to The New Departure Manufacturing Company, Bristol, Conn. Bearing mounting. 1,923,777; Aug. 22.
Delco-Light Company. (See Warner, Clarence, assignor.)
Dell, Frank C., W. D. Groseclose, and W. F. Foth, assignors to Autopoint Company, Chicago, Ill. Mechanical pencil. 1,923,300; Aug. 22.
De Lisle, Frank A. (See Boynton, A. J., and De Lisle.)
Delta-Star Electric Company, The. (See Alsaker, A., and Cornelissen (called Cornell).)
De May, Ray. (See Ostris, J., and De May.)
De Mooy, John, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Throttle valve. 1,923,919; Aug. 22.
Derby, Ira H., assignor to P. C. Reilly, Indianapolis, Ind. Heat insulation material. 1,923,420; Aug. 22.
Desimone, Anthony J., Lyndhurst, assignor to Bright Star Battery Company, Hoboken, N. J. Flash light. Des. 90,527; Aug. 22.
Dessel, Sylvan C., Livingston, Calif., assignor to International Harvester Company. Mower. 1,923,921; Aug. 22.
De Voe, Albert H., Westfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Presser-foot for sewing machines. 1,923,080; Aug. 22.
Diamond, Harry, and F. W. Dunmore, Washington, D. C., assignors to the Government of the United States. Course shift-indicator for the double-modulation type radiobeacons. 1,923,920; Aug. 22.
Diamond Match Company, The. (See Paridon, Michael, assignor.)
Dick, Harold G. (See Carter, R. S., and Dick.)
Diederich, Gerald H., Kansas City, Kans. Adjustable nozzle. 1,923,425; Aug. 22.
Diehl, John C., Erie, Pa., assignor to American Meter Company, New York, N. Y. Meter. 1,923,856; Aug. 22.
Dietmann, Paul W., Jonkoping, Sweden. Match package and manufacturing same. 1,923,616; Aug. 22.
Dietrich, Incorporated. (See Ericson, Eric W., assignor.)
Dike, Theodore W., New Westminster, British Columbia, Canada, assignor, by mesne assignments, to Laminating Patents Corporation, Seattle, Wash. Gluing. 1,923,922; Aug. 22.
Dill Manufacturing Company, The. (See Crowley, John C., assignor.)
Dixie Brick Company. (See Minter, John E., assignor.)
Dixon, Andrew, Newcastle-upon-Tyne, England. Window cleaning device. 1,923,813; Aug. 22.
Doering, Frank F. W., Los Angeles, Calif., assignor of one-half to Walter R. Hearn. Manifold attachment for internal combustion engines. 1,923,857; Aug. 22.
Doherty Research Company. (See Lowe, W. W., and Lyons, assignors.)
Doherty Research Company. (See Perl, John, assignor.)
Douglass Brothers Company. (See Douglass, Frank J., assignor.)
Douglass, Frank J., assignor to Douglass Brothers Company, Chicago, Ill. Pipe cutting machine. 1,923,778; Aug. 22.
Dow Chemical Company, The. (See Britton, Edgar C., assignor.)
Dow Chemical Company, The. (See Collings, W. R., and Gibb, assignors.)
Dowling, Frank D., Plaquemine, La. Automobile headlight protector. 1,923,970; Aug. 22.
Draper, Charles H., Cleveland Heights, H. W. Lees, Shaker Heights, and W. C. Grosser, Cleveland, Ohio. Faucet construction. 1,924,057; Aug. 22.
Drissner, Alfred E., and G. B. Petsche, assignors to The National Acme Company, Cleveland, Ohio. Centrifuge. 1,923,258; Aug. 22.
Drummond, Joseph F., Norfolk, Va. Vending machine. 1,923,478; Aug. 22.
Dunlop Rubber Company. (See Young, H. C., and Hemm, assignors.)
Dunmore, Francis W. (See Diamond, H., and Dunmore.)
Dunn, William G., Clarinda, Iowa. Awning structure. 1,923,301; Aug. 22.
Duplate Corporation. (See Sherts, J. H., and Willits, assignors.)
Du Pont, E. I., de Nemours & Company. (See Beckley, John S., assignor.)
Du Pont, E. I., de Nemours & Company. (See Handforth, Stanley L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Nollau, Edgar H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Spaeth, C. P., and Clark, assignors.)
Du Pont Rayon Company. (See Bacon, Charles J., assignor.)
Dura Company, The. (See Florady, Burton S., assignor.)
Duraloy Company, The. (See Carpenter, Oliver K., assignor.)
Durand, Jean B., Marseilles, France. Manufacture of foundry molds. 1,924,028; Aug. 22.
Dwyer, William C. (See Johnson, A. E. W., and Dwyer.)
Dye, Joseph W., assignor of one-half to H. E. Gillespie, Long Beach, Calif. Can puncturing and sealing device. 1,923,779; Aug. 22.
Easy Washing Machine Corporation. (See Nelson, Jabez C., assignor.)
Eaton Manufacturing Company. (See Veale, George W., assignor.)
Eckberg, Charles A., assignor to Lakeshire Cheese Company, Plymouth, Wis. Cheese processing machine. 1,923,858; Aug. 22.
Eclipse Machine Company. (See McGrath, William L., assignor.)
Eclipse Machine Company. (See Whitney, Maurice P., assignor.)
Edelmann, E., & Co. (See Edelmann, Leo, assignor.)
Edelmann, Leo, assignor to E. Edelmann & Co., Chicago, Ill. Syringe thermohydrometer. 1,923,192; Aug. 22.
Edensword, Alice S., Santa Barbara, Calif. Invalid's chair. 1,923,617; Aug. 22.
Edgar, Alfred D., Presque Isle, Maine; dedicated to the free use of the Government and the People of the United States. Fruit and vegetable assorting apparatus. 1,923,713; Aug. 22.
Edwards and Company. (See Miller, Christian, assignor.)
Edwards, Donald V., New York, N. Y. Exciter lamp for photo-electric cells. 1,924,058; Aug. 22.
Edwards, William A., Chicago, and C. S. Burton, Oak Park, Ill. Vacuum producing means for fuel devices. 1,923,302; Aug. 22.
Egan, John J., Brooklyn, N. Y., assignor to Electro Metallurgical Company. Nitriding. 1,923,814; Aug. 22.
Eggers, Hans A., Van Wert, Ohio. Container structure. 1,923,426; Aug. 22.
Egy, Willard L., C. I. Day, and C. E. Smart, assignors to W. & L. E. Gurley, Troy, N. Y. Frame for transits and similar instruments. 1,923,193; Aug. 22.
Elmer, Edwin J. (See Ambrose, T. H., and Elmer.)
Einbeck, Friedrich, and F. Schürmann, assignors to the Firm Aug. Klönne, Dortmund, Germany. Piston closure for waterless gas holders. 1,924,029; Aug. 22.
Eisenhut, Otto, Heidelberg, and H. Schilling, and P. Baumann, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of acetylene and carbon black. 1,923,140; Aug. 22.
Eisinger, Rudolph J., Prospect Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Throttle valve operating mechanism. 1,923,532; Aug. 22.
Eldredge, Elmer R., Wilmette, assignor, by mesne assignments, to Kraft-Phenix Cheese Corporation. Preparing whey concentrate. 1,923,427; Aug. 22.
Electric Service Supplies Company. (See Graham, H. J., and Darling, assignors.)
Electric Service Supplies Company. (See McFarlin, John R., assignor.)
Electrical Engineers Equipment Co. (See Jacobs, Ernest H., assignor.)
Electrical Improvements Limited. (See Human, Arnold H., assignor.)
Electrical Research Products, Inc. (See Silent, Harold C., assignor.)
Electro Metallurgical Company. (See Egan, John J., assignor.)
Electro Metallurgical Company. (See Kinsel, Augustus B., assignor.)
Electrons, Inc. (See Von Wedel, Carl J. R. H., assignor.)
Ellermeier, Frank D., Swanton, Nebr. Automatic bucket tally. 1,923,194; Aug. 22.

Ellis, Arthur L., New Rochelle, N. Y., assignor to The Waterbury Tool Company, Waterbury, Conn. Hydraulic stroke regulator for pumps. 1,923 923; Aug. 22.

Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Nitrocellulose coating composition containing low boiling solvent vehicles. 1,923,714; Aug. 22.

Ellis, Mae. (See Ross, Robert G., assignor.)

Ellis-Foster Company. (See Bradley, Theodore F., assignor.)

Ellis-Foster Company. (See Ellis, Carleton, assignor.)

Elser, William, San Francisco, Calif. Convertible automobile body. 1,924,030; Aug. 22.

Elsner, Andreas, Erlangen, Germany, assignor to New York Merchandise Co. Inc., New York, N. Y. Closure for books and similar articles. 1,923,981; Aug. 22.

Ely, Hiram B., U. S. Army, New York, N. Y. Fire control apparatus. 1,923,082; Aug. 22.

Engholm, Bernard A., Lakewood, assignor to The Rola Company, Cleveland, Ohio. Voice coil form. 1,923,924; Aug. 22.

Engstrom, Henry O., assignor to The Bridgeport Switch Company, Bridgeport, Conn. Electric switch. 1,923,428; Aug. 22.

Erdman, Theodore J., assignor to Van Brunt Manufacturing Company, Horicon, Wis. Grain drill. 1,923,250; Aug. 22.

Ericson, Eric W., assignor to Dietrich, Incorporated, Detroit, Mich. Mounting for sliding vehicle windows. 1,923,665; Aug. 22.

Ericson, George R., assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor. 1,923,429; Aug. 22.

Eriksson, Erik O. (See Lysholm, A., Ljungstrom, and Eriksson.)

Eschbach, Leo B. (See Couch, R. O., and Eschbach.)

Etablissements Ch. Faure-Roux. (See Faure-Roux, Charles, assignor.)

Evans Case Company. (See Reilly, Alfred F., assignor.)

Evans, Clyde M., Perkins, Okla. Wind harness for electric energy. 1,923,971; Aug. 22.

Fahrenwald, Frank A., Chicago, Ill. Furnace. 1,923,815; Aug. 22.

Fancher, Clarence, Hudson Falls, N. Y. Pulp screening apparatus. 1,923,479; Aug. 22.

Fankboner, Harland, Chicago, Ill., assignor to The Goss Printing Press Company. Printing press. 1,923,925; Aug. 22.

Fanning, Walter N., Alameda, Calif. System and apparatus for assisting navigation. 1,923,430; Aug. 22.

Farber, Louis. (See Willmott, John J., assignor.)

Farley, Francis S., Trenton, N. J., assignor to Daniel M. Sutherland, jr., Morrisville Pa. Mold for fiber pulp and the like. 1,923,431; Aug. 22.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 1,923,141; Aug. 22.

Farrar, Herbert J., Miami, Fla. Knee rest. 1,924,031; Aug. 22.

Farrel-Birmingham Company. (See Schnuck, Carl F., assignor.)

Faultless Caster Company. (See Noelting, Elmer H., assignor.)

Faure, André and A., Firminy, (Loire), France. Lifting appliance. 1,923,780; Aug. 22.

Faure, Antoine. (See Faure, André and A.)

Faure-Roux, Charles, assignor to Etablissements Ch. Faure-Roux, Saint-Chamond, France. Elastic cord. 1,923,926; Aug. 22.

Fedders Manufacturing Company. (See Slagel, Franklin G., assignor.)

Fegan, Albert E., assignor to Geo. Young & Company, Chicago, Ill. Playground and other balls and making same. 1,923,359; Aug. 22.

Fernald, Charles H. (See Orlando, Victor, assignor.)

Fessenden, Reginald A., Wintowe, Flatts, Bermuda. Height indicator. 1,924,032; Aug. 22.

Fiedler, Herman. (See Fisher, H. C., and Fiedler.)

Finck, Joseph L., Washington, D. C. Heat insulating structure. 1,923,195; Aug. 22.

Firestone Tire & Rubber Company, The. (See Begley, W. E., and McGregor, assignors.)

Firestone Tire & Rubber Company, The. (See Stevens, Horace D., assignor.)

Firl, Milton, Meyersdale, Pa. Adjustable holder for grain and the like bags or sacks. 1,923,816; Aug. 22.

Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Constructional material. 1,924,047; Aug. 22.

Fish, Allen M., Joliet, Ill. Internal combustion engine. 1,923,480; Aug. 22.

Fisher, Ernest F., St. Louis, Mo. Heating apparatus. 1,923,083; Aug. 22.

Fisher, Harry C., Cincinnati, and H. Fiedler, assignors to The Richardson Company, Lockland, Ohio. Paper keg. 1,923,716; Aug. 22.

Fisk Rubber Company, The. (See Bearman, Harry C., assignor.)

Fisk Rubber Company, The. (See Castricum, Martin, assignor.)

Fitzgerald, Edward, and R. M. Gleason, Franklin, Ohio. Roll drive. 1,923,360; Aug. 22.

Flanders, William E., Detroit, Mich. Waste conveyer. 1,923,781; Aug. 22.

Fleischmann, Hans, Schwabach, Germany. Corridor trap nest. 1,924,066; Aug. 22.

Fleming, John S., Toronto, Ontario, Canada, assignor, by mesne assignments, to Niagara Fold, Inc., Niagara Falls, N. Y. Manifolding device for typewriters. 1,924,048; Aug. 22.

Flick, Franklin, San Francisco, Calif. Portable equipment for coursing parks. 1,923,085; Aug. 22.

Flintkote Company, The. (See Loebel, Zanvil C., assignor.)

Flor, Robert G., Brooklyn, N. Y. Aerial support. 1,924,033; Aug. 22.

Florady, Burton S., assignor to The Dura Company, Toledo, Ohio. Light. 1,923,861; Aug. 22.

Folliet, Alexandre, and N. Sainderichin, Paris, France. Continuous conversion of ferruginous materials into spongy metallic agglomerates. 1,924,034; Aug. 22.

Ford, John L., assignor to The Ford Meter Box Company, Wabash, Ind. Meter box cover. 1,923,481; Aug. 22.

Ford Meter Box Company, The. (See Ford, John L., assignor.)

Ford, T. B., Limited. (See Vivian, George S., assignor.)

Foresman, Harry B., Enid, Okla., assignor to Lock Joint Window Company, Kansas City, Mo. Window sash meeting rail. 1,923,533; Aug. 22.

Fortescue, Albert J., Arncliffe, New South Wales, Australia. Traction wheel. 1,923,196; Aug. 22.

Fortier, George, Pittsburg, Calif. Combination concrete mixer and placer. 1,923,303; Aug. 22.

Foth, William F. (See Dell, F. C., Groseclose, and Foth.)

Fowler, Leonard E., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Shock absorbing spring. 1,923,361; Aug. 22.

Frankenstein, Albert, Chicago, Ill. Bathroom fixture. 1,923,482; Aug. 22.

Franklin Railway Supply Company. (See Zouck, George H., assignor.)

Franklin-Williams, Inc. (See Franzen, E. T., and Weiss, assignors.)

Franzen, Eric T., Maplewood Township, Essex County, and A. J. Weiss, West Orange, assignors to Franklin-Williams, Inc., Orange, N. J. Device for drying motion picture film. 1,923,142; Aug. 22.

Fraxee, Verne, Easton, Pa. Production of iron oxide pigments. 1,923,362; Aug. 22.

Frederickson, Axel E., and S. D. Tyler, Detroit, Mich. Container. 1,923,363; Aug. 22.

Frederics, E., Inc. (See Frederics, Ernest O., assignor.)

Frederics, Ernest O., assignor to E. Frederics, Inc., New York, N. Y. Hair waving heater. 1,923,862; Aug. 22.

Freiberg, Stanley B., assignor to The International Visible Systems Corporation, Cincinnati, Ohio. Card structure. 1,923,197; Aug. 22.

Freiberg, Stanley B., assignor to The International Visible Systems Corporation, Cincinnati, Ohio. Record blank. 1,923,198; Aug. 22.

Frelin, Fritjof, Philipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Oiling device. 1,923,717; Aug. 22.

French, Louis O., Milwaukee, Wis. Method and apparatus for feeding liquid fuel to internal combustion engines. 1,923,666; Aug. 22.

Frenger, Frank G., New York, N. Y., assignor, by mesne assignments, to The Lubrication Corporation, South Bend, Ind. Auto oiling device. 1,923,364; Aug. 22.

Freytag, Emil, et al. (See Nobst, Georg, assignor.)

Friedli, John T., Seattle, Wash., and J. D. Guiss, San Francisco, Calif. Headlight testing device. 1,923,304; Aug. 22.

Friedman, Harry, and C. Hochmuth, Vancouver, British Columbia, Canada. Atmospheric pressure operated locking mechanism. 1,923,817; Aug. 22.

Friend, Wayne Z. (See Looker, C. D., Kester, Haas, and Friend.)

Frigidaire Corporation. (See Reeves, Donald H., assignor.)

Frink, Frederick W., Schenectady, N. Y., assignor to General Electric Company. Signal system. 1,923,718; Aug. 22.

Frischknecht, Ernest, East Orange, N. J., assignor to The Teleregister Corporation, New York, N. Y. Slow-to-release relay. 1,923,863; Aug. 22.

Frumovitz, Harry L. (See Lefkowits, H., and Klein, assignors.)

Fry, Thomas E., assignor to O. K. Herndon, Kansas City, Mo. Device for clarifying and purifying liquids. 1,923,534; Aug. 22.

Fuller, Clarence N. (See Cherry, L. A., Fuller, and Lane.)

Fuller, Leonard, Grand Rapids, and K. F. Schmidt, Ada, Mich. Radiocabinet. 1,923,818; Aug. 22.

Fuller, Truman S., Niskayuna, and Le R. L. Wyman, Schenectady, N. Y., assignors to General Electric Company. Stropping material. 1,923,719; Aug. 22.

Furlong, Francis A., assignor to Republic Flow Meters Company, Chicago, Ill. Flow meter. 1,923,200; Aug. 22.

Gabel, Konrad, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of sodium cyanide. 1,923,570; Aug. 22.

Gable, Charles E., Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Brake drum and apron. 1,923,442; Aug. 22.

Gabriel Company, The. (See Benjamin, David, assignor.)

Gaines, Frank E., Indianapolis, Ind. Athletic shoe. 1,923,365; Aug. 22.

Galle, Ernst, Ludwigshafen-on-the-Rhine, W. Rosinsky, and G. Hofmann, Oppau, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Conversion of hydrocarbons of high boiling point into those of low boiling point. 1,923,571; Aug. 22.

Gamble, Charles B., Minneapolis, Minn. Game apparatus. 1,923,720; Aug. 22.

Gardner Machine Company. (See Jones, Don F., assignor.)

Garfield, James L., Drexel Hill, Pa. Visible card index. 1,923,366; Aug. 22.

Garling, Karl E., Newark, N. J. Cut off mechanism. 1,923,261; Aug. 22.

Gas Research Company, The. (See Smith, Harry F., assignor.)

Gebhard, Louis A., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Signaling system. 1,923,805; Aug. 22.

General American Tank Car Corporation. (See Pierce, Raymond C., assignor.)

General Aniline Works, Inc. (See Henle, F., and Kracker, assignors.)

General Aniline Works, Inc. (See Krzikalla, H., and Bluemmel, assignors.)

General Aniline Works Inc. (See Nawiasky, Paul, assignor.)

General Aniline Works, Inc. (See Nawiasky, P., and Chrzescinski, assignors.)

General Aniline Works, Inc. (See Ulrich, H., and Nuesslein, assignors.)

General Aniline Works, Inc. (See Zitscher, Arthur, assignor.)

General Electric Company. (See Frink, Frederick W., assignor.)

General Electric Company. (See Fuller, T. S., and Wyman, assignors.)

General Electric Company. (See Johnston, Philip J., assignor.)

General Electric Company. (See Platzer, George E., assignor.)

General Electric Company. (See Sabbah, Camil A., assignor.)

General Electric Company. (See Seeley, Harold T., assignor.)

General Electric Company. (See Weaver, Calus E., assignor.)

General Electric Company. (See Willis, Clodius R., assignor.)

General Motors Corporation. (See Fowler, Leonard E., assignor.)

General Motors Corporation. (See Hunt, John H., assignor.)

General Motors Corporation. (See Leet, Archie W., assignor.)

Geometric Tool Company, The. (See Breitenstein, Albert F., assignor.)

George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Retaining means for rolling mill bearings. 1,923,782; Aug. 22.

Gerstenslager, William H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Method of and machine for building belts. 1,924,067; Aug. 22.

Gibb, Donald L. (See Collings, W. R., and Gibb.)

Gifford, Arnold M., San Jose, and R. Smith, Bonnie Brae Station, Calif. Trailer hitch. 1,923,367; Aug. 22.

Gillespie, H. E. (See Dye, Joseph W., assignor.)

Gillett, Edward H. J. C., West Hampstead, London, England. Transmission system. 1,923,819; Aug. 22.

Gillette, Edward P., assignor to Gillette Research Corporation, Toledo, Ohio. Method and apparatus for burning limestone and the recovery of carbon dioxide. 1,923,084; Aug. 22.

Gillette Research Corporation. (See Gillette, Edward P., assignor.)

Gilligan, George H., assignor to U. S. Ring Traveler Company, Providence, R. I. Twisting device. 1,923,667; Aug. 22.

Gillings, Charles, and F. T. Belas, Liverpool, England, assignors to Associated Telephone and Telegraph Company, Chicago, Ill. Telephone system. 1,923,668; Aug. 22.

Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Cushioning and centering device for railway car couplers. 1,923,433; Aug. 22.

Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Cushioning and centering device for railway car couplers. 1,923,434; Aug. 22.

Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Upper buffer mechanism for railway cars. 1,923,435; Aug. 22.

Gilpin, Garth G., Riverside, assignor to Railway Metal Products Company, Chicago, Ill. Railway car side door construction. 1,923,783; Aug. 22.

Gilpin, Garth G., Riverside, assignor to Railway Metal Products Company, Chicago, Ill. Side door construction for railway cars. 1,923,784; Aug. 22.

Givens, Robert J., Nampa, Idaho. Automobile brake shield. 1,923,086; Aug. 22.

Glancy, Anna E., assignor to American Optical Company, Southbridge, Mass. Ophthalmic lens. 1,923,572; Aug. 22.

Gleason, Frederick H., assignor to Bowen Products Corporation, Auburn, N. Y. Lubricant reservoir and pump for central lubrication systems. 1,924,068; Aug. 22.

Gleason, Raymond M. (See Fitzgerald, E., and Gleason.)

Glenn, Arthur B., Los Angeles, Calif. Making an artist's mat. 1,923,483; Aug. 22.

Glenn, George G., Los Angeles, Calif. Hinge. 1,923,721; Aug. 22.

Globe Machinery & Supply Company. (See Bristol, Cyrus J., assignor.)

Globe Oil Tools Company. (See Howard, John H., assignor.)

Globe Oil Tools Company. (See Howard, J. H., and Catland, assignors.)

Goebel, Botho, assignor to Karl Stöckel, Leipzig, Germany. Fastening device. 1,923,262; Aug. 22.

Goergens, George R., Washington, D. C., assignor to A. M. Hyde, Secretary of Agriculture of the United States of America. Printing machine for making film strip slides from positive or negative motion picture films. 1,923,087; Aug. 22.

Goldschmidt, Rudolf, Charlottenburg, Germany, assignor, by mesne assignments, to Nathan Kann, New York, N. Y. Shaft coupling with power shortage. 1,923,368; Aug. 22.

Goldsmith, Max S., Cincinnati, Ohio. Concrete floor construction. 1,924,035; Aug. 22.

Goldsmith, P., Sons Company, The. (See Sonnett, William A., assignor.)

Goldstein-Wilkins Corporation. (See Pulitzer, Gustav M., assignor.)

Gollong, Richard J., Johnson City, Tenn., assignor to American Glanzstoff Corporation, New York, N. Y. Calking and centering means. 1,923,927; Aug. 22.

Good Humor Corporation of America. (See Robb, John F., assignor.)

Goodman Manufacturing Company. (See Sloane, William W., assignor.)

Goodrich, B. F., Company, The. (See Hagen, Karl R., assignor.)

Goodwin, George E., Hood River, Oreg. Fruit cleaning machine. 1,923,722; Aug. 22.

Goodwin, George S. (See Kass, P., and Goodwin.)

Goodyear Tire & Rubber Company, The. (See Andrews, George G., assignor.)

Goodyear Tire & Rubber Company, The. (See Campbell, J. F., and Thomson, assignors.)

Goodyear Tire & Rubber Company, The. (See Carter, R. S., and Dick, assignors.)

Goodyear Tire & Rubber Company, The. (See Clifford, Albert M., assignor.)

Goodyear Tire & Rubber Company, The. (See Gerstenslager, William H., assignor.)

Goodyear Tire & Rubber Company, The. (See Gracia, Albert J., assignor.)

Goodyear Tire & Rubber Company, The. (See Haines, Harry H., assignor.)

Goodyear Tire & Rubber Company, The. (See Hoenes, Herman J., assignor.)

Goodyear Tire & Rubber Company, The. (See Lauter, Werner M., assignor.)

Goodyear Tire & Rubber Company, The. (See Lewis, K. R., and Waugh, assignors.)

Goodyear Tire & Rubber Company, The. (See Riggs, Frederick S., assignor.)

Goodyear Tire & Rubber Company, The. (See Teppema, Jan, assignor.)

Goodykoontz, Frank A., Tracy, Calif. Dental appliance. 1,923,972; Aug. 22.

Gorton, George, Racine, Wis. Sliding-barrel rotary-cutter-spindle cutter head. 1,923,820; Aug. 22.

Goss Printing Press Co., The. (See Brueshaber, Martin W., assignor.)

Goss Printing Press Company. (See Fankboner, Harland, assignor.)

Gottfried, John, Brooklyn, N. Y., assignor to B. & G. Coin Selectors, Incorporated, Bridgeport, Conn. Coin selecting apparatus. 1,923,535; Aug. 22.

Gouner, Leonidas E., New Orleans, La., assignor to Petree & Dorr Engineers, Inc., New York, N. Y. Manufacture of sugar. 1,923,143; Aug. 22.

Government and the People of the United States, The. (See Edgar, Alfred D., assignor.)

Government and the People of the United States of America, The. (See Sherrard, E. C., and Beglinger, assignors.)

Government of the United States. (See Diamond, H., and Dunmore, assignors.)

Government of the United States. (See Kear, Frank G., assignor.)

Gow, James T. (See Mehl, R. F., and Gow.)

Graf, Elmer J., Roselle Park, N. J. Illuminated ornamental device for decorative purposes. 1,923,144; Aug. 22.

Gronemeyer, Herbert W., and F. C. Herbster, assignors to Sheffield Steel Corporation, Kansas City, Mo. Apparatus for manufacturing welded wire mattings. 1,923,369; Aug. 22.

Gracia, Albert J., Cuyahoga Falls, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Manufacturing insoluble sulphur. 1,923,723; Aug. 22.

Graf, William A., Paterson, N. J. Shuttle. 1,923,536; Aug. 22.

Graham, Herbert J., and L. A. Darling, assignors to Electric Service Supplies Company, Philadelphia, Pa. Brush plate assembly. 1,923,864; Aug. 22.

Gram, Carl F., Johnson City, Tenn., assignor to American Glanzstoff Corporation, New York, N. Y. Mixer. 1,924,080; Aug. 22.

Grasselli Chemical Company, The. (See Wood, Charles D., sr., assignor.)
Gray, Harry F., Brunswick, and C. Wensel, assignors to The International Piston Ring Company, Cleveland, Ohio. Piston ring. 1,923,573; Aug. 22.
Griffith, Ronald G., assignor to Creed and Company, Limited, Croydon, England. Telegraph system. 1,923,724; Aug. 22.
Grifols y Roig, José, Barcelona, Spain. Blood transfusion apparatus. 1,923,846; Aug. 22.
Groggins, Philip H., Washington, D. C., dedicated to the free use of the public, of and within the United States of America. Preparation of amino derivatives of the anthraquinone series. 1,923,618; Aug. 22.
Groseclose, William D. (See Deli, F. C., Groseclose, and Foth.)
Grosser, Walter C. (See Draper, C. H., Lees, and Grosser.)
Gudeman, Caroline, Fort Wayne, Ind. Brassière. 1,923,821; Aug. 22.
Gudorf, Bernard H. and U. H., Dayton, Ohio. Aircraft. 1,923,973; Aug. 22.
Gudorf, Urban H. (See Gudorf, Bernard H. and U. H.)
Guerbilsky, Alexis, Paris, France. Electrooptical register of sounds or any other elastic waves. 1,923,619; Aug. 22.
Guiss, John D. (See Friedli, J. T., and Guiss.)
Gunning, Maximiliann F., assignor to Naamloose Vennootschap Koninklijke Maatschappij "De Schelde" Scheepsbouw-en Werktuigenfabriek, Flushing, Netherlands. Mine storing means in submarines of the single hull type. 1,923,822; Aug. 22.
Gurley, W. L. & E. (See Egy, W. L., Day, and Smart, assignors.)
Haas, William F., Rockaway, Long Island, N. Y. Clasp. Des. 90,528; Aug. 22.
Hackney, Perry H., Charleston, W. Va. Battery cable terminal tongs. 1,923,199; Aug. 22.
Hagen, Karl R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Valve for corrosive fluids. 1,923,306; Aug. 22.
Haines, Harry H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Display in aircraft. 1,923,725; Aug. 22.
Haley, Cate, Rockwood Co. (See Sanborn, Charles H., assignor.)
Hamlin, George R. (See Sheller, Samuel H., assignor.)
Hammarstrand, Anders T. (See Rosat, C., and Hammarstrand.)
Hammond, Grant, New Haven, Conn. Carburetor. 1,923,537; Aug. 22.
Hanchett, Fred B., jr., Royal Oak, Mich. Automobile heater. 1,923,484; Aug. 22.
Hancock Manufacturing Company. (See Marple, E., and Baker, assignors.)
Hand, Richard W., Manhasset, N. P. Dispensing device. 1,923,974; Aug. 22.
Handforth, Stanley L., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Temperature control of chemical reactions. 1,923,865; Aug. 22.
Hanlon-Buchanan, Inc. (See Bludworth, Joseph E., assignor.)
Hannon, John. (See Mendoza, M., and Hannon.)
Hansen, Waldemar C., Westfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Gypsum concrete mixture. 1,923,370; Aug. 22.
Hansen, William A., Dos Palos, Calif. Automatic shut-off for filling spouts. 1,923,574; Aug. 22.
Hanson, Howard V., Walla Walla, Wash. Wear loop and box loop. 1,923,371; Aug. 22.
Hanson, Martin, Chicago, Ill. Combination radio cabinet and bookcase. Des. 90,529; Aug. 22.
Hardwick Stove Company. (See Hurt, Robert B., assignor.)
Hargrove Company, The. (See Bergstrom, H. G., and Martin, assignors.)
Harlan, Thomas R., Tomkinsville, N. Y. Wheel for vehicles and airplanes. 1,923,975; Aug. 22.
Harland, Albert T., Detroit, Mich., assignor to The Cincinnati Tool Company, Norwood, Ohio. Bench block. 1,923,620; Aug. 22.
Harrell, Ernest A., assignor to Levin-Forman Corporation, New York, N. Y. Textile fabric. Des. 90,530; Aug. 22.
Harrell, S. Golson. (See Laudermilk, Jerome D., assignor.)
Harrington, William H., West Hartford, assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Electrical connecter. 1,924,036; Aug. 22.
Harris, Jesse, deceased, La Fayette, Ind., by Waters-Genter Company, assignee, Minneapolis, Minn. Cooking utensil. Re18,923; Aug. 22.
Harrison, Henry H., New York, N. Y. Dental X-ray focusing instrument. 1,923,669; Aug. 22.
Harrison Radiator Corporation. (See Darrah, Carl W., assignor.)
Harrison Radiator Corporation. (See White, J. A., and Caminez, assignors.)
Harsch, John W., Gwynedd, assignor to Leeds & Northrup Company, Philadelphia, Pa. Method and apparatus for heat treating. 1,923,145; Aug. 22.
Hartford-Empire Company, The. (See Peiler, Karl E., assignor.)
Hartley, Joseph W. (See Wallace, F. D., Cost, and Hartley.)
Hartley, Seward W., New York, N. Y., assignor, by mesne assignments, to The Lubrication Corporation, South Bend, Ind. Foldable grease gun. 1,923,436; Aug. 22.
Hass, Henry B. (See Looker, C. D., Kester, Hass, and Friend.)
Hathaway, Chester F., assignor to Hathaway Machinery Company, New Bedford, Mass. Flexible coupling. 1,923,307; Aug. 22.
Hathaway Machinery Company. (See Hathaway, Chester F., assignor.)
Haughton Elevator and Machine Company. (See Ohler, Frank L., assignor.)
Hayes, Hammond V., assignor to Submarine Signal Company, Boston, Mass. Portable direction finder. 1,923,976; Aug. 22.
Hayes, Harvey C., Washington, D. C. Vibration detector. 1,923,088; Aug. 22.
Hearn, Walter R. (See Doering, Frank F. W., assignor.)
Hebbel, Konrad, Dessau-in-Anhalt, Germany, assignor to Agfa Ansco Corporation, Binghamton, N. Y. Antihalation layer and halation-proof photographic material. 1,923,485; Aug. 22.
Hechenbleikner, Ingenuin, Charlotte, N. C., assignor, by mesne assignments, to Chemical Construction Corporation. Sulphur bearing ore furnace. 1,923,866; Aug. 22.
Heckel, Rudolph J., Rochester, Pa. Device for the manufacture of pipe fittings. 1,923,372; Aug. 22.
Hedberg, Roy E., Grenfil, Saskatchewan, Canada. Separating device. 1,923,200; Aug. 22.
Hedde, Henry G., Rosalia, Kans. Auto brake testing device. 1,923,373; Aug. 22.
Heddon, Charles, assignor to James Heddon's Sons, Dowagiac, Mich. Line guide. 1,923,263; Aug. 22.
Heddon's, James, Sons. (See Heddon, Charles, assignor.)
Hedfors, Arvid O., Stockholm, Sweden. Manufacture of links for chain cables. 1,923,201; Aug. 22.
Hedly, Arthur H., assignor to Ludlow Typograph Company, Chicago, Ill. Matrix stick. 1,923,828; Aug. 22.
Heghinian, Garabed G., Baltimore, Md. Impregnation process. 1,923,726; Aug. 22.
Heinmuller, John P. V., New York, N. Y. Sidereal-civil clock combination and carrying case therefor. 1,923,308; Aug. 22.
Heitzman, Harle J., Cloverdale, Ohio. Tie form. 1,923,824; Aug. 22.
Heller, Henry W. (See Blackburn, J., and Heller.)
Helt, Clarence R., Bellevue, Pa., assignor to Brockway Machine Bottle Company. Toddy mixer package. 1,923,080; Aug. 22.
Hemm, Charles. (See Young, H. C., and Hemm.)
Henderson, James B., Blackheath, England. Gyroscopic navigational instrument. 1,924,037; Aug. 22.
Henderson, Ralph N., Terre Haute, Ind. Illuminated display. 1,923,309; Aug. 22.
Henle, Franz, and H. Kracker, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Water-insoluble azo-dyestuffs and fiber dyed therewith. 1,923,202; Aug. 22.
Hennebohle, Frank, Chicago, Ill. Cushioned relief and check valve. 1,923,621; Aug. 22.
Henson, Harold B., and E. R. Johnson, Kapuskasing, Ontario, Canada. Paper machine. 1,923,670; Aug. 22.
Herbsman, Abraham M., Huntington Park, and R. B. Campbell, Walnut Park, assignors to Industrial Patents, Ltd., Los Angeles, Calif. Mixing device. 1,924,038; Aug. 22.
Herbster, Fred C. (See Gronemeyer, H. W., and Herbster.)
Herdeg, Howard B., and M. D. Smith, Buffalo, N. Y. Combination antirattle and fastening device for window sash. 1,923,146; Aug. 22.
Herndon, Oscar K. (See Fry, Thomas E., assignor.)
Herrstrum, Rudolph E. (See Hunt, W. P., and Herrstrum.)
Hers, Alfred, assignor of one-half to E. O. Schweitzer, Chicago, Ill. Molding for ground wires and the like. 1,923,825; Aug. 22.
Hetherington, Harry C. (See Krase, H. J., and Hetherington.)
Hettrick Manufacturing Company, The. (See Rueter, Herman, assignor.)
Hewitt, David, Flint, Mich. Combine recleaner. 1,923,977; Aug. 22.
Higgins, Charles C., Riverside, and H. D. Van Brunt, Los Angeles, Calif., said Higgins assignor to said Van Brunt. Brake. 1,923,437; Aug. 22.
Highway Trailer Company. (See Allen, E. H., and Connors, assignors.)
Hill, David B., Salem, Oreg. Dental rack and timer. 1,923,978; Aug. 22.
Hill, Roger B., assignor to Brown Company, Berlin, N. H. Artificial leather manufacture. 1,923,622; Aug. 22.
Hille, Hans A., Des Moines, Iowa. Brake equalising system. 1,923,538; Aug. 22.
Hiller, Stanley, Berkeley, and J. J. Coney, Alameda, Calif. Deep sea fishing. 1,923,090; Aug. 22.
Hilliard, H. W., Co. Inc. (See Cherry, L. A., Fuller, and Lane, assignors.)
Hinderer, Eugen, Hamborn, assignor to Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Separating adhering rolled metal sheets. 1,923,264; Aug. 22.

Hinsch, Walter H., and J. Baker, assignors to Locomotive Firebox Company, Chicago, Ill. Locomotive boiler. 1,923,374; Aug. 22.
Hippold, Henry, New York, N. Y. Device for preventing theft of automobiles. 1,923,310; Aug. 22.
Hirshfeld, Clarence F., Detroit, Mich. Electric cable and operating the same. 1,923,147; Aug. 22.
Hirvonen, Erik J., Worcester, Mass., assignor, by mesne assignments, to Bendix Brake Company, South Bend, Ind. Brake shoe. 1,923,203; Aug. 22.
Hirvonen, Eric J., Worcester, Mass., assignor to Leland-Gifford Company. Indexing device. 1,923,204; Aug. 22.
Hoage, Clyde C., Tower, Minn. Fish lure. 1,923,623; Aug. 22.
Hochmuth, Carl. (See Friedman, H., and Hochmuth.)
Hockley, Harold W., assignor to Crompton Parkinson Limited, Chelmsford, England. Electrical measuring instrument. 1,924,039; Aug. 2.
Hodgson, Howard B. Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Circuit controller for lifting magnets. 1,923,311; Aug. 22.
Hodnette, John K., Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protection of distribution transformers against lightning. 1,923,727; Aug. 22.
Hoe, Robert, Hyde Park, N. Y. Kitchen appliance. 1,923,867; Aug. 22.
Hoenes, Herman J., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Machine for engraving tire molds. 1,923,728; Aug. 22.
Hoffman, Albert F., assignor to Hoffman Beverage Company, Newark, N. J. Bottle closure. 1,923,091; Aug. 22.
Hoffman Beverage Company. (See Hoffman, Albert F., assignor.)
Hoffman, John R., assignor to Madison-Kipp Corporation, Madison, Wis. Fluid operated tool. 1,923,205; Aug. 22.
Hofmann, Gerhardt. (See Galle, E., Rosinsky, and Hofmann.)
Högg, Max, Mannheim, Germany. Candle stick. 1,923,926; Aug. 22.
Högg, Max, Mannheim, Germany. Candle stick. 1,923,826; pany, Cleveland, Ohio. Circular chaser die head. 1,923,265; Aug. 22.
Holan, James, Cleveland, Ohio. Motor vehicle. 1,923,785; Aug. 22.
Holley, George M. (See Beard, Bert, assignor.)
Holt, Laurence B., Laconia, N. H., assignor to Scott & Williams, Incorporated, New York, N. Y. Forming sinkers for knitting machines. 1,923,827; Aug. 22.
Holt, Robert W., assignor, by mesne assignments, to Franklin M. Warden, Chicago, Ill. Welding. 1,923,375; Aug. 22.
Hoover Company, The. (See Altenkirch, Edmund, assignor.)
Horgan, George D. (See Molins, W. E., and Horgan.)
Horning, Harry L., assignor to Waukesha Motor Company, Waukesha, Wis. Internal combustion engine. 1,923,206; Aug. 22.
Hornung, Günther. (See Jost, F., and Hornung.)
Horst, Adam, Frankfort-on-the-Main, Germany. Electric switch. 1,923,092; Aug. 22.
Hoskins, William, La Grange, Ill., assignor, by mesne assignments, to H. W. Clark, Berkeley, Calif. Preparation of coffee. 1,924,059; Aug. 22.
Hosler, Clarence B., Findlay, Ohio. Vacuum automobile ventilator. 1,923,207; Aug. 22.
Hotchner, Fred, Los Angeles, Calif. Fabricating tubing of vitreous material. 1,923,148; Aug. 22.
Houpert, Henri J., Rye, N. Y. Plant spraying apparatus. 1,923,266; Aug. 22.
Howard, John H., Huntington Park, assignor to Globe Oil Tools Company, Los Nietos, Calif. Core drill. 1,923,486; Aug. 22.
Howard, John H., Huntington Park, and A. C. Catland, Alhambra, assignors to Globe Oil Tools Company, Los Nietos, Calif. Well drilling bit. 1,923,487; Aug. 22.
Howard, John H., Huntington Park, and A. C. Catland, Alhambra, assignors to Globe Oil Tools Company, Los Nietos, Calif. Well bit. 1,923,488; Aug. 22.
Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Interchangeable lens mount structure. 1,923,376; Aug. 22.
Howett, Charles E., Lancaster, Pa. Liquid projecting device. 1,923,979; Aug. 22.
Howey, Walter, New York, N. Y. Pantographic scanning. 1,923,208; Aug. 22.
Howsam, Hilyard C., assignor to Hubbard Spool Company, Chicago, Ill. Spool. 1,923,267; Aug. 22.
Hubbard Spool Company. (See Howsam, Hilyard C., assignor.)
Huck, Louis C., New York, N. Y. Cooling brakes. 1,924,060; Aug. 22.
Huebner, William C., Chicago, Ill. Composer printing machine. 1,923,671; Aug. 22.
Hughes, Howard R. (See Stewart, C. D., and Hughes.)
Hughes, James R., assignor to The Studebaker Corporation, South Bend, Ind. Doorlock. 1,923,149; Aug. 22.
Hughes, James W., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Rivet feeding machine. 1,923,377; Aug. 22.
Hughes, Lafayette M. (See Mitchell, Thomas A., assignor.)
Hughes, William F., assignor to Rockford Drilling Machine Co., Rockford, Ill. Friction clutch. 1,923,438; Aug. 22.
Hukill, Harold N., Inglewood, Calif. Razor. 1,923,439; Aug. 22.
Hull, Walter A., Oak Park, Ill. Tunnel kiln. 1,923,729; Aug. 22.
Hultine, Edward, Harvard, Nebr. Hen nest. 1,923,980; Aug. 22.
Human, Arnold H., Newbury, assignor to Electrical Improvements Limited, Newcastle-upon-Tyne, England. Control of alternating current motors and their supply circuits. 1,923,624; Aug. 22.
Hunt, John H., assignor to General Motors Corporation, Detroit, Mich. Synchronizing clutch mechanism. 1,923,378; Aug. 22.
Hunt, John H., assignor to General Motors Corporation, Detroit, Mich. Double inertia check for synchronising clutches. 1,923,379; Aug. 22.
Hunt, John H., and O. Rasmussen, Detroit, Mich. Synchronizing clutch mechanism for automobile transmission. 1,923,380; Aug. 22.
Hunt, Wilson P., and R. E. Herrstrum, assignors to Moline Tool Company, Moline, Ill. Worktable for drill presses. 1,923,440; Aug. 22.
Hurd, Norman B., Newington, assignor to The American Hardware Corporation, New Britain, Conn. Lock and latch. 1,924,069; Aug. 22.
Hurt, Robert B., assignor to Hardwick Stove Company, Cleveland, Tenn. Gas range. 1,923,981; Aug. 22.
Hyde, Albert M. (Secretary of Agriculture of the United States of America). (See Goergens, George R., assignor.)
Hydraulic Brake Company. (See Loughead, Malcolm, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Eisenhut, O., Schilling, and Baumann, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Gabel, Konrad, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Galle, E., Rosinsky, and Hofmann, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Jaeger, Max, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Lommel, W., and Münzel, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Mueller-Cunradi, M., and Ober, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Pungs, W., and Rabe, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Ulrich, H., and Nuesslein, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Ulrich, H., Nuesslein, and Koerding, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Winkler, K., and Kroenig, assignors.)
Illingworth, Stewart R., Radyr, Wales, assignor, by mesne assignments, to Pittsburgh Coal Carbonization Company, Wilmington, Del. Plant for the carbonisation of coal and like material. 1,923,209; Aug. 22.
Imperial Chemical Industries Limited. (See Bunbury, H. M., Davies, and Naunton, assignors.)
Imperial Chemical Industries Limited. (See Jackson, Harry, assignor.)
Imperial Chemical Industries Limited. (See Jones, M., and Naunton, assignors.)
Imperial Chemical Industries Limited. (See Mendoza M., and Hannon, assignors.)
Imperial Chemical Industries Ltd. (See Stickland, O. W., and Whitworth, assignors.)
Indiana Fibre Products Company. (See Simmons, Paul R., assignor.)
Indiana Stove Works. (See Karges, H. J., and Zarstadt, assignors.)
Industrial Patents, Ltd. (See Herbsman, A. M., and Campbell, assignors.)
Industrial Research Corporation. (See Brockway, Carl P., assignor.)
Ingersoll-Rand Company. (See Frelin, Fritjof, assignor.)
Intermetal Corporation. (See Jenness, Leslie G., assignor.)
International Communications Laboratories, Inc. (See Coe, E. R. C., and Cassedy, assignors.)
International Communications Laboratories, Inc. (See Darbord, René H., assignor.)
International Communications Laboratories, Inc. (See Smith, Clyde, assignor.)
International Harvester Company. (See Dessel, Sylvan C., assignor.)
International Harvester Company. (See Johnson, A. E. W., and Dwyer, assignors.)
International Harvester Company. (See Olson, William, assignor.)
International Harvester Company. (See Pearson, Charles, assignor.)
International Harvester Company. (See Wilson, Walter C., assignor.)
International Piston Ring Company. (See Gray, H. F., and Wensel, assignors.)
International Precipitation Company. (See Rüder, H. B., and Köpp, assignors.)
International Standard Electric Corporation. (See Smith, C. P., and Newton, assignors.)
International Standard Electric Corporation. (See Webb, Lawrence H., assignor.)
International Visible Systems Corporation, The. (See Freiberg, Stanley B., assignor.)

Jackson, Charles F. (See Schrier, D. P., and Jackson.)
Jackson, Harry, Prestwich, Manchester, assignor to Imperial Chemical Industries Limited, London, England. Typewriting and multiple-copying process. 1,923,625; Aug. 22.
Jacobs Bros. Co. Inc., The. (See Walker, Harold L., assignor.)
Jacobs, Daniel C., New York, N. Y. Collapsible paper box. 1,923,928; Aug. 22.
Jacobs, David A., assignor to The Safe-Out Ash Tray Company, Cleveland, Ohio. Ash tray. Des. 90,531; Aug. 22.
Jacobs, Ernest H., River Forest, assignor to Electrical Engineers Equipment Co., Melrose Park, Ill. Switch. 1,923,312; Aug. 22.
Jaeger, Alphons O., Mount Lebanon, assignor to The Selden Company, Pittsburgh, Pa. Recovery of furfural from filter cakes containing it. 1,923,672; Aug. 22.
Jaeger, Max, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing highly storageproof bleaching powder. 1,923,210; Aug. 22.
Jagschitz, Konrad, Mains, Germany. Waterless gas holder. 1,923,093; Aug. 22.
Jancke, Benno F., deceased, Brooklyn, N. Y., C. A. Jancke, executrix, assignor to Thermique, Incorporated, St. Louis, Mo. Hair waving device. 1,924,040; Aug. 22.
Jancke, Christine A., executrix. (See Jancke, Benno F.)
Janota, Joseph, Jr., Chicago Heights, Ill., assignor to Victor Chemical Works. Deenameling. 1,923,828; Aug. 22.
Jansen, Otto, Dulken, Germany. Holder for tubes. 1,923,929; Aug. 22.
Jarvis, Frank J., assignor to Jarvis & Jarvis, Inc., Palmer, Mass. Bearing. 1,923,211; Aug. 22.
Jarvis & Jarvis, Inc. (See Jarvis, Frank J., assignor.)
Jenkins, D. C., Glass Company. (See Arduser, Joseph O., assignor.)
Jenness, Leslie G., Brooklyn, assignor to Intermetal Corporation, New York, N. Y. Process and products pertaining to treatment of metallic oxy-compounds. 1,923,094; Aug. 22.
Jenness, Leslie G., Brooklyn, assignor to Intermetal Corporation, New York, N. Y. Chlorinating sulphide ores. 1,923,095; Aug. 22.
Jennings, Chester S. (See Perry, H. R., and Jennings.)
Jennings, O. D., & Company. (See Mihalek, Emery, assignor.)
Jennings, O. D., & Company. (See Weitrich, Wallace V., assignor.)
Jenny, Alexander, Berlin-Charlottenburg, H. Siebeneicher, and N. Budiloff, Berlin-Friedenau, assignors to Siemens-Electro-Osmose G. m. b. H., Siemensstadt, near Berlin, Germany. Production of anticorrosive protective coatings on light metals. 1,923,539; Aug. 22.
Jensen, Amos V., Ferndale, Mich. Pump. 1,923,268; Aug. 22.
Jensen, Louis, assignor to United Autographic Register Co., Chicago, Ill. Autographic register. 1,923,829; Aug. 22.
Jeppsson, Ivar. (See McArdle, M. W., and Jeppsson.)
Jessup, Clarence W. (See Decker, George R., assignor.)
Jewelite Inc. (See Lawrence, Harry W., assignor.)
Jewett, Joseph E., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Production of arylglycines. 1,923,730; Aug. 22.
Johnsen, Thomas O., Tacoma, Wash. Shoe. 1,923,830; Aug. 22.
Johnson, A., & Co. (See Von Seth, R. H., and Kalling, assignors.)
Johnson, Alfred, West New Brighton, assignor to Combustion Utilities Corporation, New York, N. Y. Gas making process. 1,923,540; Aug. 22.
Johnson, Alfred, West New Brighton, Staten Island, assignor to Combustion Utilities Corporation, New York, N. Y. Gas generating apparatus. 1,923,541; Aug. 22.
Johnson, Arnold E. W., Chicago, Ill., and W. C. Dwyer, Auburn, N. Y., assignors to International Harvester Company. Tractor spring tooth harrow. 1,923,930; Aug. 22.
Johnson, Chester F., Detroit, Mich. Fuel enriching means. 1,923,868; Aug. 22.
Johnson, Erik R. (See Henson, H. B., and Johnson.)
Johnson, Erling, assignor to the firm Odda Smelteverk A/S, Odda, Norway. Manufacturing a product containing ammonium nitrate and calcium carbonate. 1,924,041; Aug. 22.
Johnson, Forrest O. (See Murdock, G. R., Johnson, and Wagner.)
Johnson, Joseph W. (See Schoenky, A. R., and Johnson.)
Johnson Pressed Gear Co. (See Sharp, Allen W., assignor.)
Johnston, Philip J., Schenectady, N. Y., assignor to General Electric Company. Liquid pressure measuring apparatus. 1,923,731; Aug. 22.
Jones & Lamson Machine Company. (See Lovely, John E., assignor.)
Jones & Laughlin Steel Corporation. (See Ray, Edgar H., assignor.)
Jones, Don F., Beloit, Wis., assignor to Gardner Machine Company, South Beloit, Ill. Grinding machine. 1,923,931; Aug. 22.
Jones, John D., Portland, Oreg. Oiling loose pulleys or the like. 1,923,869; Aug. 22.
Jones, Maldwyn, Crumpsall, and W. J. S. Naunton, Prestwich, England, assignors to Imperial Chemical Industries Limited. Vulcanization of rubber and rubber-like substances. 1,923,932; Aug. 22.
Jones, Thomas P., Johannesburg, Transvaal, Union of South Africa. Safety razor. 1,923,673; Aug. 22.
Jordan, Claude. (See Conley, R. A., and Jordan.)
Jost, Friedrich, Bornig, near Herne, and G. Hornung, Herne, Germany, assignors to the firm Patentverwertungs A. G. "Aplina", S. A. pour l'Exploitation de Brevets "Alpint", Patents Exploitation by "Alpina", Ltd., Basel, Switzerland. Production of ammonium compounds. 1,923,212; Aug. 22.
Juhasz, James G., Chicago, Ill. Sound reproducing device. 1,923,831; Aug. 22.
Kaasa, Orin G., Munster, Ind., assignor to Sinclair Refining Company, New York, N. Y. Refining hydrocarbons. 1,923,150; Aug. 22.
Kallo, Inc. (See Lieberknecht, Karl R., assignor.)
Kalling, Bo M. S. (See Von Seth, R. H., and Kalling.)
Kann, Nathan. (See Goldschmidt, Rudolf, assignor.)
Karges, Henry J., and G. J. Zurstadt, assignors to Indiana Stove Works, Evansville, Ind. Oven burner. 1,924,042; Aug. 22.
Karlin, Nathan A., Brooklyn, N. Y., assignor to Cabad Corporation of America. Changeable display device. 1,923,575; Aug. 22.
Karrick, Lewis C., New York, N. Y. Process and apparatus for carbonizing coal. 1,923,213; Aug. 22.
Kartzmark, Otto, West Haven, Conn. Door stop and catch. 1,923,933; Aug. 22.
Kass, Peter, and G. S. Goodwin, assignors to Union Metal Products Company, Chicago, Ill. Buffing device for railway car vestibule diaphragms. 1,923,441; Aug. 22.
Kesr, Frank G., Minersville, Pa., assignor to the Government of the United States. Radio beacon course shifting method. 1,923,934; Aug. 22.
Kearney, Edward J., Wauwatosa, assignor to Kearney & Trecker Corporation, West Allis, Wis. Milling machine structure. 1,923,935; Aug. 22.
Kearney & Trecker Corporation. (See Kearney, Edward J., assignor.)
Keck, Arthur, Dayton, Ohio, assignor, by mesne assignments, to Better Packages, Inc. Gummed tape moistener. 1,923,936; Aug. 22.
Keeling, Stanley H. (See North, Stanley C., assignor.)
Keely, Clifford D., Bloomfield, N. J., and H. T. Peirson, Brooklyn, N. Y. Book cabinet. 1,923,096; Aug. 22.
Keil, Francis, & Son, Inc. (See Kniessner, William T., assignor.)
Kelco Company. (See Walsh, Michael J., assignor.)
Kelly, Vaughn. (See Bogin, C., and Kelly.)
Kelly, Vaughn, Chicago, Ill., and C. Bogin, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Nongelling lacquer. 1,923,732; Aug. 22.
Kelsey-Hayes Wheel Corporation. (See Booth, William N., assignor.)
Kerr, Howard J., Westfield, and J. E. Black, Rumson, N. J., assignors to The Babcock & Wilcox Company, Bayonne, N. J. Radiant heat superheater. 1,923,097; Aug. 22.
Kester, Ernest B. (See Looker, C. D., Kester, Hass, and Friend.)
Keyes, Charles H. (See Keyes, Homer R. and C. H.)
Keyes, Homer R. and C. H., said C. H. Keyes, assignor to Homer R. Keyes, Los Angeles, Calif. V-shaped belt. 1,923,542; Aug. 22.
Kidde, Walter, & Company. (See McLaren, Malcolm W., assignor.)
Kilgore, Charles F., Minneapolis, Minn. Decoy. 1,923,442; Aug. 22.
Killian, Edward S., Akron, Ohio. Apparatus for manufacturing thin rubber articles. 1,923,733; Aug. 22
King, Don W., and A. L. Lockwood, Jackson, Mich., assignors, by mesne assignments, to Outboard Motors Corporation, Detroit, Mich. Anticavitation plate for outboard motors. Re18,921; Aug. 22.
Kingston Products Corporation. (See Zimmerer, Mark E., assignor.)
Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Coupler mechanism. 1,923,674; Aug. 22.
Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Coupler mechanism. 1,923,675; Aug. 22.
Kinzel, Augustus B., Beechhurst, Long Island, N. Y., assignor to Electro Metallurgical Company. Metal container. 1,924,043; Aug. 22.
Kirsch, Benjamin, assignor to Auto Radiator Manufacturing Co., Chicago, Ill. Automotive heater. 1,923,676; Aug. 22.
Kirsch, Charles W., Sturgis, Mich. Cornice curtain pole. Des. 90,532; Aug. 22.
Klein, Gabriel. (See Lefkowits, H., and Klein.)
Klein, Morris, Aliquippa, Pa. Watch cleaning machine. 1,923,626; Aug. 22.
Kliesrath, Victor W. (See Bragg, C. S., and Kliesrath.)
Klönne, Aug. (See Einbeck, F., and Schürmann, assignors.)
Klopp, Henry G., Spokane, Wash. Window frame. 1,923,832; Aug. 22.
Klopp, Henry G., Spokane, Wash. Window frame. 1,923,833; Aug. 22.
Kneeland, Frederick L., Olympia, Wash. Flexible post file binder. 1,923,627; Aug. 22.

Kniessner, William T., New York, N. Y., assignor to Francis Keil & Son, Inc. Lock construction. 1,923,443; Aug. 22.
Knight, James B., and A. J. Rainey, Los Angeles, Calif. Treatment apparatus. 1,923,098; Aug. 22.
Knowles, Carroll, West Hartford, assignor to Pratt & Whitney Company, Hartford, Conn. Feed mechanism for machine tools. 1,923,786; Aug. 22.
Knox, Harry A., Davenport, Iowa. Track for track-laying vehicles. 1,923,099; Aug. 22.
Koch, Clarence B. (See Snelling, W. O., and Koch.)
Koch, Roderick M., Evansville, Ind. Card and ticket holder. 1,923,982; Aug. 22.
Koehring Company. (See Koehring, Philip A., assignor.)
Koehring, Philip A., assignor to Koehring Company, Milwaukee, Wis. Automatic central mixing plant. 1,923,151; Aug. 22.
Koerding, Paul. (See Ulrich, H., Nuessiein, and Koerding.)
Kohn, David, Albany, N. Y. Golf practice apparatus. 1,923,152; Aug. 22.
Köpp, Willy. (See Rüder, H. B., and Köpp.)
Korsmo, Torbjorn C., assignor to Madison-Kipp Corporation, Madison, Wis. Die-casting apparatus. 1,923,214; Aug. 22.
Koster, Richard, Tallinn, Estonia, assignor to H. Prehn, Neumburg, Germany. Illuminant burning with a multicolored flame. 1,923,313; Aug. 22.
Kracker, Herbert. (See Henle, F., and Kracker.)
Kraft-Phenix Cheese Corporation. (See Eldredge, Elmer E., assignor.)
Krag, Grace M., Chicago, Ill. Broiling apparatus. 1,923,100; Aug. 22.
Krase, Herbert J., Clarendon, Va., and H. C. Hetherington, Washington, D. C. Synthesis of urea. 1,923,489; Aug. 22.
Krauch, Carl, Ludwigshafen-on-the-Rhine, and M. Pier, Heidelberg, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J. Conversion of solid fuels and products derived therefrom or other materials into valuable liquids. 1,923,576; Aug. 22.
Krause, Henry, Little Neck, assignor to The Chilton Pen Company, Inc., Long Island City, N. Y. Pen desk set. 1,923,734; Aug. 22.
Kreis, Walter, assignor to the Firm of Chemical Works formerly Sandos, Basel, Switzerland. Manufacture of a new crystallized product from digitalis. 1,923,490; Aug. 22.
Kreis, Walter, assignor to Firm Chemical Works formerly Sandos, Basel, Switzerland. Preparation of new crystallized glucosides from digitalis. 1,923,491; Aug. 22.
Krell, Joseph, Berlin-Zehlendorf, Germany. Printing machine. 1,923,492; Aug. 22.
Kressman, Jean, Bordeaux, France. Electric amplification of sounds. 1,923,870; Aug. 22.
Kroenig, Walter. (See Winkler, K., and Kroenig.)
Krogh, Otto P., Copenhagen, Denmark. Joining leather, etc. 1,923,215; Aug. 22.
Kropp, Walter. (See Taub, L., and Kropp.)
Krueger, Frank, assignor to E. W. Bliss Company, Brooklyn, N. Y. Can end seamer. 1,923,101; Aug. 22.
Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Blank cutting machine. 1,923,937; Aug. 22.
Krzikalla, Hans, Mannheim, and F. Bluemmel, Seckenheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Metal compound of o-hydroxyazo dyestuffs. 1,923,216; Aug. 22.
Kyrides, Lucas P., St. Louis, Mo., assignor, by mesne assignments, to Monsanto Chemical Company. Octyl alcohol esters. 1,923,938; Aug. 22.
L. C. L. Corporation. (See Woodruff, Graham C., assignor.)
LaBeau, Clarence E., et al. (See Ambrose, T. H., and Eimer, assignors.)
LaClair, Norman W., St. Paul, Minn. Snowplow. 1,923,444; Aug. 22.
Lafferty, Wheeler, Lakewood, Ohio. Method and apparatus for pollinating plants grown under glass. 1,923,217; Aug. 22.
Lakeshire Cheese Company. (See Eckberg, Charles A., assignor.)
Lambert, Chandley W., Cleveland, Ohio. Automatic variable pitch propeller. 1,924,061; Aug. 22.
Laminating Patents Corporation. (See Dike, Theodore W., assignor.)
Lamson Company, The. (See Marcy, Willard A., assignor.)
Lancaster Processes, Inc. (See Robinson, Thomas, assignor.)
Landis & Gyr, A. G. (See Wullschleger, Albert, assignor.)
Lane, Augustus H. (See Cherry, L. A., Fuller, and Lane.)
Lane, Enos H. (See Miller, E. F., Lane, and Tuley.)
Lang, Herbert H., Wilmette, assignor to Rite-Rite Mfg. Co., Chicago, Ill. Mechanical pencil. 1,923,153; Aug. 22.
Lang Transportation Company. (See Wheeler, Jesse, assignor.)
Langhammer, Karl, et al. (See Nobst, Georg, assignor.)
Langknecht, Henry J., Rochester, assignor to Shuron Optical Company, Inc., Geneva, N. Y. Ophthalmic pad and manufacturing same. 1,924,070; Aug. 22.
Lanser, Basil M., Sydney, New South Wales, Australia. Casting of printing furniture. 1,923,218; Aug. 22.
La Resista Corset Company, The. (See Nickerson, Gertrude L., assignor.)
Larsen, Gabriel, Springfield, N. J., assignor to L. E. Waterman Company, New York, N. Y. Fastening clip for fountain pens, pencils, and the like and attaching means therefor. 1,923,269; Aug. 22.
Larsen, Neil P., Cleveland Heights, assignor to The American Coach & Body Company, Cleveland, Ohio. Hinge. 1,923,787; Aug. 22.
Larson, Julia N. (See Wolverton, Percy B., assignor.)
Larson, Lewis, and B. B. Tutwiler, Drummond, Mont. Bull board for railway stock cars. 1,923,983; Aug. 22.
Larsson, Ernst A., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley tender. 1,923,314; Aug. 22.
Laudermilk, Jerome D., Claremont, assignor of one-half to Mrs. S. Golson Harrell, Los Angeles, Calif. Apparatus for determining the deviation of well holes and casings. 1,924,071; Aug. 22.
Lauter, Werner M., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Antioxidant or age-retarder for rubber compounds. 1,923,735; Aug. 22.
Lavallée, Paul. (See De Filgué, W., an dLavallée.)
Lavarack, Frederick C., Montclair, N. J., assignor to Railroad Accessories Corporation, New York, N. Y. Junction box. 1,923,939; Aug. 22.
Lavigne, Joseph P., assignor, by mesne assignments, to O. & S. Bearing Co., Detroit, Mich. Adjustable shaft mounting and assembly. 1,924,072; Aug. 22.
Lawrence, Harry W., Denver, Colo., assignor to Jewelite Inc. Current conducting molding for ornamental lighting. 1,923,270; Aug. 22.
Lawrence, Walter L., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Modulation system. 1,923,543; Aug. 22.
Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in the manufacture of shoes. 1,923,154; Aug. 22.
Layne, Joseph W., assignor to The Roloway Manufacturing Company, Higginsville, Mo. Rake. 1,923,381; Aug. 22.
Leeds & Northrup Company. (See Harsch, John W., assignor.)
Lees, Harry W. (See Draper, C. H., Lees, and Grosser.)
Leet, Archie W., St. Louis, Mo., assignor to General Motors Corporation, Detroit, Mich. Vehicle shipping device. 1,923,382; Aug. 22.
Lefkowitz, Harry, and G. Klein, assignors to H. L. Frumovitz, Brooklyn, N. Y. Cloth cutting machine. 1,923,834; Aug. 22.
Legerlotz, Helmut, Berlin-Friedenau, Germany, assignor to P. Beiersdorf & Co. Inc., New York, N. Y. Stable ammonium salt of primula saponine. 1,924,073; Aug. 22.
Lehman, Edward H., assignor to W. H. Miner, Inc., Chicago, Ill. Hand brakes. 1,923,315; Aug. 22.
Lehon Company, The. (See Moone, Albert E. F., assignor.)
Leland-Gifford Company. (See Hirvonen, Eric J., assignor.)
Leland, Ragnvald G., New York, N. Y. Self feeding applicator. 1,923,316; Aug. 22.
Lemieux, Frank J., Central Falls, R. I. Galley mechanism for monotype machines. 1,923,628; Aug. 22.
Lentheric Incorporated. (See Tricard, René, assignor.)
Leonard, Carl H., Wayne County, Nebr. Wrench. 1,923,629; Aug. 22.
Leonard, Lloyd H., Philadelphia, and J. C. Whitesell, jr., Norristown, assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Adjustable gusset structure. 1,923,544; Aug. 22.
Levin-Forman Corporation. (See Harrell, Ernest A., assignor.)
Levis, Robert B., Chicago, Ill., assignor to Bird & Son, Inc., East Walpole, Mass. Roofing product. Re18,919; Aug. 22.
Lewis, Benjamin P., Rolla, Mo. Duplicator. 1,923,219; Aug. 22.
Lewis Differential Company. (See Tatter, J. W., and Sampson, assignors.)
Lewis, Kenneth R., and D. C. Waugh, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing device. 1,923,736; Aug. 22.
Lewis, William T., Racine, and A. R. Woolfolk, Wauwatosa, Wis., said Woolfolk assignor to said Lewis. Radio receiving system. 1,923,155; Aug. 22.
Libbey-Owens-Ford Glass Company. (See Belknap, William J., assignor.)
Lichty, Warren C. (See Noland, George B., assignor.)
Lieberknecht, Karl K., Oberlungwitz, Germany. Manufacturing stockings on straight knitting machines in continuous operation. 1,923,984; Aug. 22.
Lieberknecht, Karl R., Oberlungswitz, Germany, assignor to Kallo Inc., New York, N. Y. Full fashioned knitting machine. 1,923,545; Aug. 22.
Lieberknecht, Karl R., Oberlungwitz, Germany. Knocking over device for flat hosiery frames. 1,923,985; Aug. 22.
Lightbown, Edward N., Brentwood, Md. Vent pipe joint guard. 1,923,220; Aug. 22.
Lindemann, A. J., & Hoverson Company. (See Lindemann, W. C., and Schmidt, assignors.)
Lindemann, Walter C., and A. T. Schmidt, assignors to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Fuel vaporizer and making same. 1,923,546; Aug. 22.

Lipsner, Benjamin B., Chicago, Ill. Massage device. 1,923,317; Aug. 22.
Litty, Elisabeth H. (See Litty, J. R., and Lundin, assignors.)
Litty, John R., and T. B. Lundin; said Lundin assignor to Elisabeth H. Litty, Philadelphia, Pa. Cake cutting machine. 1,923,871; Aug. 22.
Ljungström, Fredrik. (See Lysholm, A., Ljungström, and Eriksson.)
Ljunström, Fredrik, Lidingo, Sweden, assignor, by mesne assignments, to Ped, Incorporated. Self-propelled vehicle. 1,923,102; Aug. 22.
Lloyd, Arthur J., Oak Park, assignor to W. G. Lloyd Company, Chicago, Ill. Adjustable rack. 1,923,318; Aug. 22.
Lloyd, W. G., Company. (See Lloyd, Arthur J., assignor.)
Lobel, Rudolph, Brooklyn, N. Y. Hand bag. Des. 90,533; Aug. 22.
Lock Joint Window Company. (See Foresman, Harry B., assignor.)
Locke, Fred J. (See Locke, Fred M., and F. J.)
Locke, Fred M., deceased, and F. J. Locke, deceased; by Mercie P. Locke executrix and administratrix de bonis non, Victor, assignor to Corning Glass Works, Corning, N. Y. Process of melting glass. 1,923,221; Aug. 22.
Locke, Mercie P., executrix and administratrix. (See Locke, Fred M. and F. J.)
Lockwood, Arthur L. (See King, D. W., and Lockwood.)
Locomotive Firebox Company. (See Hinsch, W. H., and Baker, assignors.)
Loebel, Zanvil C., New York, N. Y., assignor to The Flintkote Company, Boston, Mass. Surfacing material and preparing same. 1,923,635; Aug. 22.
Löfgren, Erik O., Stocksund, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Elimination of ripples in cascade coupled thermionic valves. 1,923,222; Aug. 22.
Loibl, Ludwig, Chicago, Ill. Filing device. 1,923,445; Aug. 22.
Loibl, Ludwig, Chicago, Ill. Filing device. 1,923,446; Aug. 22.
Lommel, Wilhelm, and H. Münsel, Leverkusen Wiesdorf-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Mothproofing substances. 1,923,223; Aug. 22.
Looker, Cloyd D., and E. B. Kester, Nitro, W. Va.; H. B. Hass, Lafayette, Ind., and W. Z. Friend, South Sudbury, Mass., assignors to The Baltimore Gas Engineering Corporation. Treatment of hydrocarbons. 1,923,630; Aug. 22.
Lorber, Charles, Louisville, Ky. Combination ice pick. 1,923,986; Aug. 22.
Loudon, Robert. (See Muir, J. C., and Loudon.)
Loughead, Malcolm, Detroit, Mich., assignor to Hydraulic Brake Company, Los Angeles, Calif. Brake mechanism. 1,923,872; Aug. 22.
Lovell, Stanley P., Newton, assignor to Arden Box Toe Company, Watertown, Mass. Manufacture of shoe stiffeners. 1,923,631; Aug. 22.
Lovely, John E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Lathe. 1,923,493; Aug. 22.
Lovett, John T., jr., Little Silver, N. J. Plant package and making and transplanting the same. 1,923,677; Aug. 22.
Lowe, William W., Westfield, N. J., and H. N. Lyons, Okmulgee, Okla., assignors to Doherty Research Company, New York, N. Y. Process and apparatus for fractionating petroleum. 1,923,271; Aug. 22.
Lowell, John W., assignor to Benedict Stone Products Company, Chicago, Ill. Bucket. 1,923,678; Aug. 22.
Luboshez, Benjamin E., Harrow, England. Cinematographic apparatus. 1,923,987; Aug. 22.
Lubrication Corporation, The. (See Frenger, Frank G., assignor.)
Lubrication Corporation, The. (See Hartley, Seward W., assignor.)
Lucke, Charles E., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Radiant heat superheater. 1,923,103; Aug. 22.
Ludlow Typograph Company. (See Hedly, Arthur H., assignor.)
Ludwig, Edgar V., Woodside, assignor to American Radiator Company, New York, N. Y. Heating means. 1,923,940; Aug. 22.
Lufkin, Garland, Toledo, Ohio, assignor to Owens-Illinois Glass Company. Leer for annealing glassware. 1,923,941; Aug. 22.
Lufkin, Garland, Toledo, Ohio, assignor to Owens-Illinois Glass Company. Glass furnace. 1,923,942; Aug. 22.
Luitwieler, Edward B., Malden, Mass. Shoe and binding and stay for the same. 1,923,988; Aug. 22.
Luitwieler, Edward B., Malden, Mass. Piping and the like. 1,923,989; Aug. 22.
Lundin, Trued B. (See Litty, J. R., and Lundin.)
Lundteigen, John H., Detroit, Mich., assignor to The Super Cement Company. Grinding materials. 1,923,883; Aug. 22.
Lunn, William J., New York, N. Y. Reversible double ended fuse plug. 1,923,156; Aug. 22.
Luton, John, Cleveland Heights, assignor, by mesne assignments, to The Consolidated Iron-Steel Manufacturing Company of 1932, Cleveland, Ohio. Method and apparatus for making molds. 1,924,081; Aug. 22.
Lyon, George A., Allenhurst, assignor to Lyon Incorporated, Asbury Park, N. J. Cover for spare tires. 1,924,084; Aug. 22.
Lyon, George A., Allenhurst, assignor to Lyon Incorporated, Asbury Park, N. J. Cover for spare tires of automobiles. 1,924,085; Aug. 22.
Lyon, George A., Allenhurst, assignor to Lyon Incorporated, Asbury Park, N. J. Tire cover with contractible clamping bands. 1,924,086; Aug. 22.
Lyon Incorporated. (See Lyon, George A., assignor.)
Lyons, Henry N. (See Lowe, W. W., and Lyons.)
Lysholm, Alf, Stockholm, F. Ljungström and E. O. Eriksson, Lidingo, assignors to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Turbine driven locomotive. 1,924,062; Aug. 22.
MacCoy, Andrew T., Boston, Mass. Printing telegraph. 1,923,273; Aug. 22.
MacDougall, John, Wyoming, Pa. Concrete safety mining unit. 1,924,044; Aug. 22.
Mackey, Albert E., Rochester, N. Y. Ice bunker for refrigerator cars. 1,923,319; Aug. 22.
MacLean, John A., assignor to Wright-Austin Company, Detroit, Mich. Water gauge. 1,923,737; Aug. 22.
MacRae, Peter C., and R. C. Thomasson, Seattle, Wash. Highway marker. 1,923,632; Aug. 22.
Madden, William J., Lansdowne, Pa. Apparatus for cooling passenger cars. 1,923,547; Aug. 22.
Madison-Kipp Corporation. (See Hoffman, John R., assignor.)
Madison-Kipp Corporation. (See Korsmo, Torbjorn C., assignor.)
Magnesium Development Corporation. (See Schmidt, W., Bothmann, and Ruhrmann, assignors.)
Magnesium Development Corporation. (See Suchy, R., Staib, and Moschel, assignors.)
Mainland, John, La Porte, Ind., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Pick-up. 1,923,104; Aug. 22.
Manaster, Ben B., Chicago, Ill. Collar stay. 1,923,577; Aug. 22.
Manchester, Merle L., Syracuse, assignor to United States Hoffman Machinery Corporation, New York, N. Y. Press. 1,923,494; Aug. 22.
Manierre, George, Milwaukee, Wis. Loading machine. 1,923,836; Aug. 22.
Manning & Co. (See Van Ranst, Cornelius W., assignor.)
Mantle Lamp Company of America, The. (See Schwars, Eugene, assignor.)
Marathon Company. (See Whittaker, Frederick A., assignor.)
Marchant, Guy O., et al. (See Walker, Jay P., assignor.)
Marcy, Willard A., assignor to The Lamson Company, Syracuse, N. Y. Conveyer mechanism. 1,923,447; Aug. 22.
Markstein, Robert P., Vienna, Austria. Fountain pen. 1,923,633; Aug. 22.
Markstein, Robert P., Vienna, Austria. Fountain pen holder. 1,923,634; Aug. 22.
Maroto, Jorge, assignor to Taylor Forge and Pipe Works, Chicago, Ill. Forming pipe elbows. 1,923,272; Aug. 22.
Marple, Rollo, and A. F. Baker, Jackson, Mich., assignor to Hancock Manufacturing Company. Doorlatch. 1,923,679; Aug. 22.
Martin, George B. (See Bergstrom, H. G., and Martin.)
Mason, William H., assignor to Masonite Corporation, Laurel, Miss. Production of nonwarping fiber boards. 1,923,105; Aug. 22.
Mason, William H., assignor to Masonite Corporation, Laurel, Miss. Apparatus for production of nonwarping fiber board. 1,923,106; Aug. 22.
Mason, William H., assignor to Masonite Corporation, Laurel, Miss. Article handling system. 1,923,548; Aug. 22.
Mason, William H., assignor to Masonite Corporation, Laurel, Miss. Article handling system. 1,923,549; Aug. 22.
Masonite Corporation. (See Mason, William H., assignor.)
Mastenbrook, Henry J., assignor to The Swartwout Company, Cleveland, Ohio. Generator hook-up. 1,923,320; Aug. 22.
Mastenbrook, Henry J., assignor to The Swartwout Company, Cleveland, Ohio. Valve. 1,923,788; Aug. 22.
Mathis, Allen W., et al. (See Vera, John F., assignor.)
Matthews, H. A., Manufacturing Company, The. (See Boesel, Otto A., assignor.)
Maximoff, Alexander T., assignor to "Chatillon" Societa Anonima Italiana per la Seta Artificiale, Milan, Italy. Obtaining lusterless artificial silks. 1,923,495; Aug. 22.
McAdams, William H. (See Weber, H. C., and McAdams.)
McArdle, Michael W., and I. Jeppeson, assignors to Chicago Flexible Shaft Company, Chicago, Ill. Combined slicer and shredder. Des. 90,534; Aug. 22.
McBain, William C., Youngstown, Ohio. Method of and machine for straightening or leveling strip metal. 1,923,738; Aug. 22.
McCabe, Ira E., Chicago, Ill. Solenoid operated valve. 1,923,681; Aug. 22.
McCabe, Ira E., Chicago, Ill. Temperature actuated electric circuit control. 1,923,680; Aug. 22.
McCloud, Don B., Carbondale, Ill. Explosive cartridge. 1,923,496; Aug. 22.
McCollum, Burton, Houston, Tex., assignor, by mesne assignments, to The Texas Company. Seismic method of profiling geologic formation. 1,923,107; Aug. 22.

McCoy, Archie G., and B. W. Sunde, assignor, by mesne assignments, to Blackwell and Sunde, Inc., Long Beach, Calif. Whipstock. 1,923,448; Aug. 22.
McCracken, William J., et al. (See Raymond, Carl L., assignor.)
McCreery, Harold E., Apollo, assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa. Abrasive blasting nozzle. 1,923,635; Aug. 22.
McCue, Clarence B. (See Armantrout, L. L., and McCue.)
McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 1,923,157; Aug. 22.
McDonough, Lawrence E., Chicago, Ill. Plaiting machine. 1,923,158; Aug. 22.
McFarlin, John R., assignor to Electric Service Supplies Company, Philadelphia, Pa. Lightning arrester. 1,923,943; Aug. 22.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,923,990; Aug. 22.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,923,991; Aug. 22.
McGregor, Henry H. (See Begley, W. E., and McGregor.)
McKinnon, John W. (See McRae, Randolph J., assignor.)
McLaren, Daniel F., Glen Cove, N. Y. Wall-crack cutting router. 1,923,159; Aug. 22.
McLaren, Malcolm W., Jackson Heights, N. Y., assignor, by mesne assignments, to Walter Kidde & Company, Inc. Fire extinguishing system. 1,923,160; Aug. 22.
McLaurin, William W., deceased, Brookfield, Mass.; Old Colony Trust Company, executor. Gummed tape and making same. 1,923,537; Aug. 22.
McNally, James O. (See Pidgeon, H. A., and McNally.)
McRae, Randolph J., assignor of one-half to J. W. McKinnon, New York, N. Y. Apparatus for the treatment of materials such as coal, lignite asphalt, etc. 1,923,161; Aug. 22.
Mears, Norton A., assignor to Chicago Forging & Manufacturing Co., Chicago, Ill. Closure latch. 1,923,873; Aug. 22.
Medart, Fred, Manufacturing Company. (See Albach, F., and Chervenka, assignors.)
Medlin, John P., Great Falls, Mont., assignor to Railway & Industrial Engineering Company, Greensburg, Pa. Repeater circuit breaker. 1, 923,823; Aug. 22.
Mehl, Robert F., Middletown, Ohio, and J. T. Gow, Westfield, N. J. Heating photographic films or plates. 1,923,108; Aug. 22.
Meigs, Joseph V., assignor, by mesne assignments, to Plastix Corporation, Jersey City, N. J. Resinous product and making same. 1,923,821; Aug. 22.
Meissner, Josef, Burbach, Germany. Apparatus for the uninterrupted production of alkaline salds. 1,923,993; Aug. 22.
Mendel, Sol P., Newark, N. J. Inkwell. 1,923,109; Aug. 22.
Mendel, William, Beverly, N. J. Forming composite cords and braids. 1,923,822; Aug. 22.
Mendoza, Mordecai, West Didsbury, and J. Hannon, Gorton, England, assignors to Imperial Chemical Industries Limited. Azo dyestuffs for leather. 1,923,944; Aug. 22.
Merck, E. (See Schneider, Heinrich, and K., assignors.)
Merco Centrifugal Separator Co., Ltd. (See Peltzer, Albert, and A., jr., assignors.)
Mercury Motor Corporation. (See Petrilli, Harry E., assignor.)
Merk, Lawrence A., Pittsburgh, assignor to Railway Maintenance Corporation, Aspinwall, Pa. Lubricator. 1,923,449; Aug. 22.
Merritt, Charles H., assignor to The Clark Box Company, Danbury, Conn. Protecting hats from perspiration. 1,923,550; Aug. 22.
Metropolitan Engineering Company. (See Murray, Thomas E., jr., assignor.)
Middleton, Brian M., Bedford, assignor of one-half to W. G. Armstrong Whitworth & Company, (Engineers) Limited, Newcastle-upon-Tyne, England. Cotton gin. 1,923,838; Aug. 22.
Midhat, Chakir, Berlin-Eichkamp, Germany. Loud speaker. 1,924,063; Aug. 22.
Midland Steel Products Company, The. (See Gable, Charles E., assignor.)
Midland Steel Products Company, The. (See Stoner, Willis G., assignor.)
Mihalek, Emery, assignor to O. D. Jennings & Company, Chicago, Ill. Vending machine. 1,923,945; Aug. 22.
Miller, Charles, New York, N. Y. Shoe. Des. 90,535; Aug. 22.
Miller, Charles, New York, N. Y. Shoe. Des. 90,536; Aug. 22.
Miller, Charles, New York, N. Y. Shoe. Des. 90,537; Aug. 22.
Miller, Charles, New York, N. Y. Shoe. Des. 90,538; Aug. 22.
Miller, Charles, New York, N. Y. Shoe. Des. 90,539; Aug. 22.
Miller, Charles, New York, N. Y. Shoe. Des. 90,540; Aug. 22.
Miller, Charles, New York, N. Y. Shoe. Des. 90,541; Aug. 22.
Miller, Charles, New York, N. Y. Shoe. Des. 90,542; Aug. 22.
Miller, Charles, New York, N. Y. Shoe. Des. 90,543; Aug. 22.
Miller, Charles, New York, N. Y. Shoe. Des. 90,544; Aug. 22.
Miller, Charles, New York, N. Y. Shoe. Des. 90, 545; Aug. 22.
Miller, Christian, New York, N. Y., assignor to Edwards and Company, Inc. Push button switch construction. 1,923,450; Aug. 22.
Miller, Ernest F., Prospect Park, E. H. Lane, Lansdowne, and C. B. Tuley, Glenolden, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Condenser apparatus. 1,923,274; Aug. 22.
Miller, Joseph, Minneapolis, Minn. Refrigerating apparatus. 1,923,451; Aug. 22.
Miller, Max C., Cumberland, R. I., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Knitting machine. 1,923,994; Aug. 22.
Miller, Roy G., Farmingdale, N. Y., assignor to The Aviation Patent and Research Corporation. Airplane fuel tank. 1,923,384; Aug. 22.
Mills, Sanford. (See Spring, Walter M., assignor.)
Miner, W. H. Inc. (See Lehman, Edward H., assignor.)
Minter, John E., assignor to Dixie Brick Company, Incorporated, Columbus, Ga. Face brick. 1,923,636; Aug. 22.
Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Producing hydrochloric acid gas. 1,923,824; Aug. 22.
Moeller, Andrew, Creve Coeur, Mo. Reenforcement for hand baskets. 1,923,789; Aug. 22.
Mohr, Carl, Los Angeles, Calif. Signal device for vehicles. 1,923,162; Aug. 22.
Moise, Harmon D., and H. W. Beall, assignors to Vacuum Gauge Company, Sumter, S. C. Liquid level gauge. 1,923,224; Aug. 22.
Moline Tool Company. (See Hunt, W. P., and Herrstrum, assignors.)
Moline Tool Company. (See Parkhurst, Clyde E., assignor.)
Molins, Walter E., and G. D. Horgan, Deptford, London, England. Machinery for packing cigarettes. 1,923,637; Aug. 22.
Molins, Walter E., and J. W. Chalmers, Deptford, London, England. Packing machinery. 1,924,045; Aug. 22.
Monite Explosives, Inc. (See Pritchett, G. A., and Walker, assignors.)
Monmouth Products Company. (See Smith, Charles C., assignor.)
Monsanto Chemical Company. (See Kyrides, Lucas P., assignor.)
Monsanto Chemical Company. (See Nickell, Lloyd F., assignor.)
Montanye, Carlyle N., Baltimore, Md. Combined advertising and calendar support. Des. 90,546; Aug. 22.
Moone, Albert E. F., Chicago, Ill., assignor to The Lehon Company. Printing and slitting device. 1,923,946; Aug. 22.
Moore, George L., Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Chromium plated article and making the same. 1,923,790; Aug. 22.
Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,923,225; Aug. 22.
Moorman, Charles L., Blue Island, Ill. Golf tee. 1,923,652; Aug. 22.
Morgan Construction Company. (See George, Jerome E., assignor.)
Morgan, John C., Los Angeles, Calif. Electric heater. 1,923,874; Aug. 22.
Morse, Roy W., Willow Grove, assignor to Autogiro Company of America, Philadelphia, Pa. Supporting means for aircraft sustaining rotors. 1,923,110; Aug. 22.
Moschel, Wilhelm. (See Suchy, R., Staib, and Moschel.)
Mosimann, Paul, Utzenstorf, Switzerland. Aeroplane. 1,924,049; Aug. 22.
Moske, Alexander W., assignor to Reynolds Spring Company, Jackson, Mich. Heavy duty seat construction. 1,923,739; Aug. 22.
Moss, Thomas R., Dyersburg, Tenn. Ash tray. 1,923,638; Aug. 22.
Moss, William H., Cumberland, Md., assignor to Celanese Corporation of America. Laminated glass and making the same. 1,923,111; Aug. 22.
Mueller-Cunradi, Martin, Ludwigshafen-on-the-Rhine, and E. Ober, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of diolefines. 1,923,569; Aug. 22.
Mueser, Charles, Verona, assignor to H. T. Shriver, trading as Firm of T. Shriver & Company, Harrison, N. J. Pump diaphragm. 1,923,740; Aug. 22.
Muir, John C., Carluke, and R. Loudon, Cleland, Scotland. Weather excluding device for closures. 1,923,839; Aug. 22.
Müller, Johannes, assignor to "Sachtleben" Aktiengesellschaft für Bergbau und Chemische Industrie, Homberg-on-the-Lower-Rhine, Germany. Purifying of natural heavy spar. 1,923,497; Aug. 22.
Münsel, Heinrich. (See Lommel, W., and Münsel.)
Murakami, Rikuji F., Santa Barbara, Calif. Circuit closer for motor vehicles. 1,923,578; Aug. 22.
Murdock, George E., Beverly Hills, F. O. Johnson and H. E. Wagner, assignors to B. E. Tingley, Los Angeles, Calif. Lighting apparatus for moving picture stages. 1,923,741; Aug. 22.

Murphy, Alice C., assignor of one-half to Alfred David, New York, N. Y. Braided or plaited material. 1,923,551; Aug. 22.
Murphy, Edmund G., Chicago, Ill. Vacuum tube. 1,923,552; Aug. 22.
Murphy, Walter P., New York, N. Y., assignor to Railway Metal Products Company, Chicago, Ill. Freight car door. 1,923,791; Aug. 22.
Murray Corporation of America, The. (See Coda, Christopher F., assignor.)
Murray Corporation of America, The. (See West, Starling A., assignor.)
Murray, Howard J., New York, N. Y., assignor to R. M. Company Inc., East Pittsburgh, Pa. Springless clutch synchronizer. 1,923,385; Aug. 22.
Murray, Howard J., New York, N. Y., assignor to R. M. Company Inc., East Pittsburgh, Pa. Clutch lock for synchronizers. 1,923,386; Aug. 22.
Murray, John F., et al., executors. (See Murray, Thomas E.)
Murray, Joseph B., et al., executors. (See Murray, Thomas E.)
Murray, Thomas E., jr., et al., executors. (See Murray, Thomas E.)
Murray, Thomas E., jr., Brooklyn, N. Y., assignor to Metropolitan Engineering Company. Manufacture of housings and the like. Re18,925; Aug. 22.
Murray, Thomas E., deceased, by T. E. Murray, jr., J. B. Murray and J. F. Murray, exectors, assignors to Metropolitan Engineering Company, Brooklyn, N. Y. Boiler. 1,923,875; Aug. 22.
Mutscheller, Arthur, New York, N. Y., assignor to Wappler Electric Company, Inc. Producing an X-ray focus varying with the X-ray tube load. 1,923,876; Aug. 22.
Myers, Abram L., Chicago, Ill. Operating means for automatic telephones. 1,923,947; Aug. 22.
Naamlooze Vennootschap Koninklijke Maatschappij de Schelde Scheepsbouw-en Werktuigenfabriek. (See Gunning, Maximiliann, F., assignor.)
Nahm, Yarren L., Oakland, Calif. Delinter. 1,923,579; Aug. 22.
Naken, William, Chicago, Ill. Automatic train control. 1,923,499; Aug. 22.
Nallinger, Fritz, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Air purifier. 1,923,498; Aug. 22.
National Acme Company, The. (See Driessner, A. E., and Petsche, assignors.)
National Acme Company, The. (See Hogg, William J., assignor.)
National Aluminate Corporation. (See Wagner, Glenn H., assignor.)
National Aniline & Chemical Company. (See Alt, Arthur, assignor.)
National Aniline & Chemical Company. (See Jewett, Joseph E., assignor.)
National Malleable and Steel Castings Company. (See Beazley, Arthur J., assignor.)
National Malleable and Steel Castings Company. (See Shafer, James A., assignor.)
National Screen Company Incorporated. (See Williams, G. T., and Story, assignors.)
National Super Service Company, The. (See Rosenberg, Edward N., assignor.)
Naunton, William J. S. (See Bunbury, H. M., Davies, and Naunton.)
Naunton, William J. S. (See Jones, M., and Naunton.)
Nawiasky, Paul, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works Inc., New York, N. Y. Purification of blue vat dyestuffs. 1,923,226; Aug. 22.
Nawiasky, Paul, and O. Chrzescinski, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Dyestuffs of the anthraquinone series. 1,923,227; Aug. 22.
Neff, Claude R., assignor to The Neff & Fry Company, Camden, Ohio. Burial vault. 1,923,792; Aug. 22.
Neff & Fry Company, The. (See Neff, Claude R., assignor.)
Nelson Brothers Company. (See Nelson, Harry B., assignor.)
Nelson, Harry B., assignor to Nelson Brothers Company, Saginaw, Mich. Internal combustion engine. 1,923,387; Aug. 22.
Nelson, Jabez C., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Method and apparatus for washing clothes. 1,923,580; Aug. 22.
Nelson, William, Minneapolis, Minn., assignor to Burnett Walker, New York, N. Y. Nut lock for vehicle wheels. 1,923,388; Aug. 22.
Nesbitt, Frank T., Alton, Ill., assignor, by mesne assignments, to Owens-Illinois Glass Company, Toledo, Ohio. Leer. 1,923,581; Aug. 22.
Nesbitt, William H., assignor to Wheeling Corrugating Company, Wheeling, W. Va. Sheet metal receptacle. 1,923,742; Aug. 22.
Neumann, Paul A., Chicago, Ill. Extracting gold from its ores. 1,923,948; Aug. 22.
Neumiller, Harry J., Peoria, Ill. Package. 1,923,452; Aug. 22.
New Departure Manufacturing Company, The. (See De Laval-Crow, Thomas C., assignor.)
New Departure Manufacturing Company, The. (See Stevens, Clarence C., assignor.)
New Departure Manufacturing Company, The. (See Weldon, Chichester P., assignor.)
Newton, Frank E. (See Crosby, R. S., and Newton.)
Newton, Geoffrey. (See Smith, C. P., and Newton.)
New York Merchandise Co. Inc. (See Elsner, Andreas, assignor.)
Niagara Fold, Inc. (See Fleming, John S., assignor.)
Nickell, Lloyd F., East St. Louis, Ill., assignor, by mesne assignments, to Monsanto Chemical Company. Producing salts in globular form. 1,923,877; Aug. 22.
Nickerson, Gertrude L., Milford, assignor to The LaResista Corset Company, Bridgeport, Conn. Corset. 1,923,112; Aug. 22.
Niederhauser, Charles H., Palo Alto, Calif. Activity-analysis and recording device. 1,923,793; Aug. 22.
Nobst, Georg, Mittweida, assignor of one-half to E. Freytag, Zwickau, Saxony, and K. Laughammer, Chemnitz, Germany. High speed circular knitting machine. 1,923,949; Aug. 22.
Nock, Cecil J., Brooklyn, N. Y. Reversing and stopping propeller mechanism. 1,923,995; Aug. 22.
Noelting, Elmer H., assignor to Faultless Caster Company, Evansville, Ind. Bumper construction. 1,923,163; Aug. 22.
Noland, George B., Northville, assignor of one-half to W. C. Lichty, Wayne, Mich. Christmas tree stand. 1,923,794; Aug. 22.
Nollau, Edgar H., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Candy support. 1,923,275; Aug. 22.
Noma Electric Corporation, New York, N. Y. (See Dam, Henry M., and Rosendal, assignor.)
Nord, Benjamin, Bayside, assignor to Whitney Metal Products Corp., New York, N. Y. Eaves trough hanger. 1,923,276; Aug. 22.
North, Stanley C., assignor of one-fourth to S. H. Keeling, and one-fourth to D. H. Keeling, Syracuse, N. Y. Drive mechanism for motor vehicles. 1,923,795; Aug. 22.
Northern Equipment Company. (See Veenschoten, Vincent V., assignor.)
Northey, Arthur J., Parkstone, England. Rotary internal combustion engine. 1,923,500; Aug. 22.
Norton, Charles W. (See Coxhead, R. C., and Norton.)
Norvell, David H., Kermit, Tex. Aeroplane map device. 1,923,113; Aug. 22.
Nuesslein, Joseph. (See Ulrich, H., and Nuesslein.)
Nuesslein, Joseph. (See Ulrich, H., Nuesslein, and Koerding.)
O. & S. Bearing Co. (See Lavigne, Joseph P., assignor.)
O. & S. Bearing Company. (See Skillman, Newton, assignor.)
Ober, Ernst. (See Mueller-Cunradi and Ober.)
Odda-Smelteverk A/S. See Johnson, Erling, assignor.)
O'Dowd, Henry W., Jersey City, N. J., assignor to Standard Gas Equipment Corporation. Liquid heating apparatus. 1,923,639; Aug. 22.
O'Halloran, Edmund H. J., Bexley, near Sydney, New South Wales, Australia. Support for curtains and other light articles. 1,924,074; Aug. 22.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohio Brass Company, The. (See Larsson, Ernst A., assignor.)
Ohler, Frank L., assignor to The Haughton Elevator and Machine Company, Toledo, Ohio. Safety device for elevators. 1,923,683; Aug. 22.
Old Colony Trust Company, executor. (See McLaurin, William W., assignor.)
Oldenbusch, Ernest, jr., Rockville Center, N. Y. Adjustable book end-holder. 1,923,996; Aug. 22.
Oliver United Filters Inc. (See Stanley, Carroll M., assignor.)
Olson, William, Hines, Minn., assignor to International Harvester Company. Covering device for planters. 1,924,075; Aug. 22.
Orlando, Victor, assignor to C. H. Fernald, New York, N. Y. Photographic apparatus. 1,923,997; Aug. 22.
Osborn, Howard H., et al. (See Vera, John F., assignor.)
Ostria, José, and R. DeMay, Chicago, Ill. Airplane propeller. 1,923,325; Aug. 22.
Otte, Otho M., Tarentum, Pa., assignor, by mesne assignments, to Budd Wheel Company. Hot rolling radially tapered disks. 1,923,389; Aug. 22.
Otto, Albert T., & Sons. (See Ter Meer, Gustav, assignor.)
Outboard Motors Corporation. (See King, D. W., and Lockwood, assignors.)
Owens-Illinois Glass Company. (See Lufkin, Garland, assignor.)
Owens-Illinois Glass Company. (See Nesbitt, Frank T., assignor.)
Ozburn, Floyd A., Los Angeles, Calif. Fish lure. 1,923,840; Aug. 22.
Pacific Pitting Machine Company. (See Bem, Joseph P., assignor.)
Packard Motor Car Company. (See Moorehouse, Alfred, assignor.)
Palais, Harry, Roxbury, Mass. Sheet material article and making the same. 1,923,881; Aug. 22.
Palluch, Ferencz, Budapest, Hungary, assignor of one-half to Frank Schwartz, New York, N. Y. Stroboscopic device. 1,923,277; Aug. 22.
Papas, Nick, Corona, N. Y., assignor to Alpine Ice Cream Co. Inc. Automobile truck body. Des. 90,547; Aug. 22.
Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Baltimore, Md. Machine for packing matches. 1,923,950; Aug. 22.
Park, Matthew C. (See Bedford, Jesse, assignor.)

Parkhurst, Clyde E., assignor to Moline Tool Company, Moline, Ill. Lapping machine. 1,923,800; Aug. 22.
Parks, Dennis, St. Louis, Mo. Lift grading machine. 1,923,878; Aug. 22.
Parrish, Harry L., Nashville, Tenn. Fire extinguisher. 1,923,326; Aug. 22.
Parsons, George K., Detroit, Mich. Transmission. 1,923,879; Aug. 22.
Partridge, Stewart W., Grand Island, Nebr. Ink pad. 1,923,114; Aug. 22.
Patentverwertungs A. G. "Alpina," S. A. pour l'Exploitation de Brevets "Alpina" Patents Exploitation cy. Alpina Ltd. (See Jost, F., and Hornung, assignors.)
Patentverwertungs A. G. Alpina, S. A. pour l'Exploitation de Brevets Alpina, Patents Exploitation cy Alpina Ltd. (See Uhde, George F., assignor.)
Patrick, Joseph C., Kansas City, Mo. Olefin-polysulphide plastic. 1,923,392; Aug. 22.
Patterson, Elmer, assignor to Caterpillar Tractor Co., San Leandro, Calif. Harvester. 1,923,891; Aug. 22.
Payne, Matt, Surbiton, England. Thermostatic and like temperature responsive apparatus. 1,923,998; Aug. 22.
Payne, Pearson M., Denver, Colo. Mold pouring apparatus. 1,923,553; Aug. 22.
Peale-Davis Company. (See Davis, Kenneth, assignor.)
Peale-Davis Company. (See Peale, Richard and R., jr., assignors.)
Peale, Rembrandt, jr. (See Peale, Richard and R., jr.)
Peale, Richard and R., jr., St. Benedict, Pa., assignors, by mesne assignments, to Peale-Davis Company, Wilmington, Del. Process and mechanism for separating intermixed divided materials. 1,923,951; Aug. 22.
Pearmain, William J., assignor to The Twin Disc Clutch Company, Racine, Wis. Clutch. 1,923,453; Aug. 22.
Pearson, Charles, Cicero, Ill., assignor to International Harvester Company. Tractor mower. 1,923,952; Aug. 22.
Ped, Incorporated. (See Ljungstrom, Fredrik, assignor.)
Peller, Karl E., assignor, by mesne assignments, to The Hartford-Empire Company, Hartford, Conn. Machine for feeding molten glass. 1,923,554; Aug. 22.
Peirson, Harold T. (See Keely, C. D., and Peirson.)
Peltzer, Albert, jr. (See Peltzer, Albert and A., jr.)
Peltzer, Albert and A., jr., Chicago, Ill., assignors to Merco Centrifugal Separator Co., Ltd., San Francisco, Calif. Method and apparatus for centrifugal separation. 1,923,454; Aug. 22.
Peltzer, Albert and A., jr., Palo Alto, assignors to Merco Centrifugal Separator Co., Ltd., San Francisco, Calif. Mill-starch treatment and method. 1,923,455; Aug. 22.
Pembroke, Leon H., Bay City, Mich. Hub cap puller. 1,923,953; Aug. 22.
Peoples Gas Light and Coke Company, The. (See Whittington, James A., assignor.)
Perkins, Frank P., assignor to Michael Yundt Company, Waukesha, Wis. Bottle washing machine. 1,923,743; Aug. 22.
Perky, Scott H., Batavia, N. Y. Making food products. 1,923,684; Aug. 22.
Perl, John, Tulsa, Okla., assignor to Doherty Research Company, New York, N. Y. Process and apparatus for treating hydrocarbons. 1,923,278; Aug. 22.
Perry, Agnes S. (See Perry, Ira D., assignor.)
Perry, Harold R., Swarthmore, Pa., and C. S. Jennings, Syracuse, N. Y. Shoe rack or similar article. Des. 90,548; Aug. 22.
Perry, Harold R., Swarthmore, Pa., and C. S. Jennings, Syracuse, N. Y. Shoe rack or similar article. Des. 90,549; Aug. 22.
Perry, Ira D., assignor to Agnes S. Perry, Chicago, Ill. Air valve and the like. 1,923,501; Aug. 22.
Pesavento Ferdinando, Pittsburgh, Pa. Necktie holder. 1,923,999; Aug. 22.
Petersen, William F., Chicago, Ill. Pressure fermentation of dough for bread and similar bakery products. 1,923,880; Aug. 22.
Petree & Dorr Engineers, Inc. (See Gouner, Leonidas E., assignor.)
Petrelli, Harry E., assignor to Mercury Motor Corporation, Boston, Mass. Internal combustion engine. 1,923,744; Aug. 22.
Petsche, Gustav B. (See Driessner, A. E., and Petsche.)
Pevely Dairy Company. (See Wasser, Joseph J., assignor.)
Phinney, Edgar E., West Orange, assignor to Defiance Manufacturing Corporation, Orange, N. J. Checkwriter. 1,923,685; Aug. 22.
Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Generator device for liquid fuel stoves. 1,923,882; Aug. 22.
Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Gas burner. 1,923,393; Aug. 22.
Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Gas burner. 1,923,394; Aug. 22.
Pidgeon, Howard A., and J. O. McNally, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 1,923,686; Aug. 22.
Pier, Mathias. (See Krauch, C., and Pier.)
Pierce, John B., et al., receivers. (See Bearman, Harry C., assignor.)
Pierce, John B., et al., receivers. (See Castricum, Martin, assignors.)
Pierce, Raymond C., assignor to General American Tank Car Corporation, Chicago, Ill. Safety brake-beam support for car trucks. 1,923,841; Aug. 22.
Pierson, Oscar E., Brooklyn, assignor to The Western Union Telegraph Company, New York, N. Y. Correcting mechanism for synchronous apparatus. 1,924,050; Aug. 22.
Pignanelli, Luigi, Tacoma, Wash. Arch supporter. 1,924,051; Aug. 22.
Pike, William E., Winston-Salem, N. C. Pump. 1,923,883; Aug. 22.
Pittsburgh Coal Carbonization Company. (See Illingworth, Stewart R., assignor.)
Pittsburgh Research Corporation. (See Simpson, George L., assignor.)
Plastix Corporation. (See Meigs, Joseph V., assignor.)
Platzer, George R., Schenectady, N. Y., assignor to General Electric Company. Electrically operated weighing scale. 1,923,745; Aug. 22.
Pomeroy, Roy J., Los Angeles, Calif. Modification of sound records. 1,923,746; Aug. 22.
Pool, Warren R., Lincoln, Nebr. Cream remover. 1,923,640; Aug. 22.
Prahar, Robert, Brooklyn, N. Y. Receptacle frame. 1,923,687; Aug. 22.
Pratt, James, assignor to Sir W. G. Armstrong, Whitworth and Company (Engineers) Limited, Newcastle-on-Tyne, England. Sprag gear mechanism. 1,923,842; Aug. 22.
Pratt & Whitney Company. (See Knowles, Carroll, assignor.)
Pratt & Whitney Company. (See Shaw, John C. and R. D., assignors.)
Pratt & Whitney Company. (See Tanner, Hubert D., assignor.)
Prehn, Henirich. (See Koster, Richard, assignor.)
Premo, Albert F., Springfield, Mass. Producing composite slabs. 1,923,843; Aug. 22.
Price, Jacob R., Kansas City, Mo. Package for strip or like materals. 1,923,456; Aug. 22.
Prier, Pierre, Clichy, France. Process and product for protecting aluminium, magnesium, zinc and their alloys against corrosion. 1,923,502; Aug. 22.
Pritchett, Glenn A., and H. G. Walker, assignors to Monite Explosives, Inc., Reno, Nev. Explosive. 1,923,327; Aug. 22.
Prosperity Company, The. (See Davis, Ernest, assignor.)
Provenzano, Emil., Brooklyn, assignor to Isaac Batkin, New York, N. Y. Lamp shade. 1,923,555; Aug. 22.
Public, of and within the United States of America, Free use of the. (See Groogings, Philip H.)
Pulitzer, Gustav M., assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,550; Aug. 22.
Pulitzer, Gustav M., assignor to Goldstein-Wilkins Corporation, New York, N. Y. Textile fabric or similar article. Des. 90,551; Aug. 22.
Pulsifer, Frank, Salem, Mass. Power transmitting mechanism. 1,923,582; Aug. 22.
Pungs, Wilhelm, Ludwigshafen-on-the-Rhine and H. Rabe, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of liquid unsaturated hydrocarbons of high molecular weight. 1,923,583; Aug. 22.
Pushee, George D., deceased, Weston, by G. H. Pushee, Wayland, and A. W. Church and H. C. Cushman, Newton, executors, assignors to J. C. Pushee & Sons, Inc., Boston, Mass. Making shaving brushes. 1,923,884; Aug. 22.
Pushee, George H., et al., executors. (See Pushee, George D.)
Pushee, J. C., & Sons, Inc. (See Pushee, George D., assignor.)
R. C. Can Company. (See Rutkowski, Walter L., assignor.)
R. M. Company Inc. (See Murray, Howard J., assignor.)
Rabe, Hans. (See Pungs, W., and Rabe.)
Radio Corporation of America. (See Buckle, H. L. T., and Thompsett, assignors.)
Radio Patents Corporation. (See Burstyn, W., and Tausig, assignors.)
Radio Patents Corporation. (See Coursey, Philip R., assignor.)
Radzinsky, Harry. (See Brell, Jules J., assignor.)
Rahn, Georg. Frankfort-on-the-Main, Germany. Storing box. 1,923,228; Aug. 22.
Railroad Accessories Corporation. (See Lavarack, Frederick C., assignor.)
Railroad Accessories Corporation. (See Smith, Earl B., assignor.)
Railway & Industrial Engineering Company. (See Medlin, John P., assignor.)
Railway Maintenance Corporation. (See Merk, Lawrence A., assignor.)
Railway Metal Products Company. (See Gilpin, Garth G., assignor.)
Railway Metal Products Company. (See Murphy, Walter P., assignor.)
Raines, Ewell A., Tulsa, Okla. Tank valve. 1,923,503; Aug. 22.
Rainey, Albert J. (See Knight, J. B., and Rainey.)
Rambo, Lyman A. (See Berga, O., and Rambo.)
Rash, Albert Z., and W. Rogers, Santa Monica, assignors of one-third to Montieth Snedegar, Norwalk, Calif. Hydraulic brake. 1,923,115; Aug. 22.
Rasmussen, Olak. (See Hunt, J. H., and Rasmussen.)
Rawlings, Arthur L., London, England, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Gyroscopic compass. 1,923,885; Aug. 22.

Rawlings Manufacturing Company. (See Scudder, Mason, assignor.)
Ray, Edgar H., Beaver, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Discharge door for furnaces. 1,923,886; Aug. 22.
Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Thermostatic wax pot. 1,923,584; Aug. 22.
Raymond, Carl L., Sanford, assignor of one-half to W. J. McCracken, Miami, Fla., and one-half to E. H. Raymond, Washington, D. C. Pipe joint. 1,923,504; Aug. 22.
Raymond, Earl H., et al. (See Raymond, Carl L., assignor.)
Raytheon, Inc. (See Spencer, Percy L., assignor.)
Reed, Clarence E., Wichita, Kans. Antifriction coupling for drill stems. 1,923,328; Aug. 22.
Reed, M. Frankness, Stephensville, Tex. Apparatus for maintaining vacuum in oil wells or the like. 1,923,395; Aug. 22.
Reeves, Donald H., assignor to Frigidaire Corporation, Dayton, Ohio. Dispensing faucet. 1,923,585; Aug. 22.
Reeves, Orwell C., assignor to Toledo Scale Manufacturing Company, Toledo, Ohio. Test weight case. 1,923,457; Aug. 22.
Reilly, Alfred F., assignor to Evans Case Company, North Attleboro, Mass. Combined cigarette case and lighter. Des. 90,552; Aug. 22.
Reilly, Peter C. (See Derby, Ira H., assignor.)
Reilly, Emmet C., and M. P. Sieger, assignors to United Engineering & Foundry Company, Pittsburgh, Pa. Sheet piler. 1,923,458; Aug. 22.
Remington Rand Inc. (See Wood, Rodney J., assignor.)
Remington Typewriter Company. (See Barney, Edwin E., assignor.)
Remington Typewriter Company. (See Walsoe, Sigurd L., assignor.)
Renda, Vincent, Baltimore, Md. Power mechanism. 1,923,887; Aug. 22.
Renfer, John E., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Rock drill. 1,923,796; Aug. 22.
Rentschler, Harvey C., East Orange, N. J., assignor to Westinghouse Lamp Company. Photo-electric device. 1,923,844; Aug. 22.
Rentschler, Harvey C., East Orange, N. J., assignor to Westinghouse Lamp Company. Photo-electric device. 1,923,845; Aug. 22.
Republic Flow Meters Company. (See Furlong, Francis A., assignor.)
Reynolds Spring Company. (See Schrier, D. P., and Jackson, assignors.)
Reynolds Spring Company. (See Moske, Alexander W., assignor.)
Reynolds Wire Co. (See Thompson, Herbert L., assignor.)
Riblet, Royal N., Spokane, Wash. Window operator. 1,923,459; Aug. 22.
Rice, Charles W., Union City, Ind. Shade roller mounting. 1,923,506; Aug. 22.
Richardson, Carlos. and J. A. Richardson, Montevideo, Uruguay. Electric machine for recording stenographically the spoken word. 1,923,505; Aug. 22.
Richardson Company, The. (See Fisher, H. C., and Fiedler, assignors.)
Richardson, Juan A. (See Richardson, Carlos, and J. A.)
Richardson, Led L., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Lubricator for percussive tools. 1,923,797; Aug. 22.
Richardson, Myron H., assignor to Advance Machine Company, Chicago, Ill. Vending machine. 1,923,396; Aug. 22.
Richter, George A., assignor to Brown Company, Berlin, N. H. Low viscosity cellulose fiber and producing the same. 1,923,641; Aug. 22.
Ricks, Fred, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,923,586; Aug. 22.
Riehm, Christian C., Methuen, Mass. Apparatus for adjusting beater engine rolls. 1,923,230; Aug. 22.
Riggs, Frederick S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus for mounting a rim upon a wheel. 1,923,747; Aug. 22.
Rightmyer, Holden W., assignor to The American Swiss Company, Toledo, Ohio. Doorlatch. 1,923,688; Aug. 22.
Rightway Corporation, The. (See Webb, Arthur B., assignor.)
Ritenour, William H., Pittsburgh, Pa. Slug-form binding. 1,923,116; Aug. 22.
Rite-Rite Mfg. Co. (See Lang, Herbert H., assignor.)
Robb, John F., Cleveland Heights, assignor to Good Humor Corporation of America, Cleveland, Ohio. Confection and making the same. 1,923,587; Aug. 22.
Röbig, Adolf, Frankfort-on-the-Main-Nied, Germany. Ball joint for gauge rods and steering rods on motor vehicles. 1,923,232; Aug. 22.
Robin, Philip T., Erie, Pa., assignor, by mesne assignments, to the Firm of The Clayton Aniline Company, Limited, Vehicle. 1,923,397; Aug. 22.
Robins Conveying Belt Company. (See Robins, Samuel D., assignor.)
Robins, Samuel D., Hewlett, assignor to Robins Conveying Belt Company, Passaic, N. J. Screening apparatus. 1,923,229; Aug. 22.
Robinson, George E., Concord, N. H. Water gun. 1,923,588; Aug. 22.
Robinson, Hervie, Thomasville, Ga. Surgical bandage forming machine. 1,923,117; Aug. 22.
Robinson, Rona, Withington, near Manchester, assignor to the Firm of The Clayton Aniline Company, Limited, Clayton-Manchester, England. Condensation product and making same. 1,923,798; Aug. 22.
Robinson, Thomas, assignor to Lancaster Processes, Inc., New York, N. Y. Producing emulsions. 1,923,888; Aug. 22.
Rockford Drilling Machine Co. (See Hughes, William F., assignor.)
Rockwell, George G., assignor to The Ball & Roller Bearing Company, Danbury, Conn. Bearing construction. 1,923,799; Aug. 22.
Rodolausse, Eloi, Saint-Antonin in Tarn-et-Garonne, France. Control and safety device for railways and tramways. 1,923,231; Aug. 22.
Rogers, Mont D. (See Bach, Edward J., assignor.)
Rogers, Will. (See Rash, A. Z., and Rogers.)
Rohm & Haas Company. (See Somerville, Ian C., assignor.)
Rola Company, The. (See Engholm, Bernard A., assignor.)
Rolaway Manufacturing Company, The. (See Layne, Joseph W., assignor.)
Roman, Walter G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical discharge device. 1,923,748; Aug. 22.
Ronning, Henry O. (See Cullen, H. E., and Ronning.)
Roos, Axel H., Chico, Calif. Code key cutting machine. 1,923,164; Aug. 22.
Rosat, Charles, deceased, by Rose-Lucy Rosat, née Böle, administratrix, Boudry, Switzerland, and A. T. Hammarstrand, Djursholm, Sweden. Coin insertion saving device in clocks, counters, and like motion works. 1,924,000; Aug. 22.
Rosat, Rose-Lucy, née Böle, administratrix. (See Rosat, C., and Hammarstrand.)
Rosenbaum, Ike, Mount Vernon, Ind. Spectacle temple fastening device. 1,924,001; Aug. 22.
Rosenberg, Edward N., assignor to The National Super Service Company, Toledo, Ohio. Suction machine. 1,923,689; Aug. 22.
Rosenblum, Israel, Jackson Heights, N. Y. Producing resin esters. 1,923,507; Aug. 22.
Rosinsky, Walter. (See Galle, E., Rosinsky, and Hoffmann.)
Ross, David E., assignor to Rostone, Incorporated, Lafayette, Ind. Window sash operating device. 1,923,233; Aug. 22.
Ross, Robert G., assignor to Mae Ellis, Charlotte, N. C. Serving tray. 1,923,508; Aug. 22.
Rossmann, Rudolf, Munich, Germany, assignor to Tefag Textil Finanz A. G., Zurich, Switzerland. Feeding means for weaving machines. 1,923,954; Aug. 22.
Rostone, Incorporated. (See Ross, David E., assignor.)
Roth, Otto, jr., Bad Ems, Germany. Cleaner for articles of metal. 1,923,642; Aug. 22.
Rousseau, Sarantis G., Hempstead, N. Y. Agitating plunger cock. 1,923,589; Aug. 22.
Rozumek, Ernst, Stockholm, Sweden. Electrothermally actuated electrical switch. 1,923,509; Aug. 22.
Rüder, Heinrich B., and W. Köpp, Frankfort-on-the-Main, Germany, assignors to International Precipitation Company, Los Angeles, Calif. Effecting distribution of flowing fluids. 1,923,118; Aug. 22.
Ruemelin, Richard, Milwaukee, Wis. Sand mixer for sand blast machines. 1,923,329; Aug. 22.
Rueter, Herman, assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Article of furniture. 1,923,690; Aug. 22.
Ruhrmann, Josef. (See Schmidt, W., Bothmann, and Ruhrmann.)
Rush, Turner C., Lexington, Ky. Puller. 1,924,002; Aug. 22.
Rutkowski, Walter L., assignor to R. C. Can Company, St. Louis, Mo. Spool. 1,923,510; Aug. 22.
Ryon, Tracy B., Pasadena, Calif. Triple gas control valve. 1,923,165; Aug. 22.
Sabbah, Camil A., Schenectady, N. Y., assignor to General Electric Company. Preventing unbalance in rectifier compounding systems. 1,923,749; Aug. 22.
"Sachtleben" Aktiengesellschaft für Berglau und Chemische Industrie. (See Müller, Johannes, assignor.)
Safe-Out Ash Tray Company, The. (See Jacobs, David A., assignor.)
Sainderichin, Nicolas. (See Folliet, A., and Sainderichin.)
Sallee, Webster I., Cleveland, Ohio. Apparatus for burning fuels. 1,923,330; Aug. 22.
Sameshima, Naotaro, Los Angeles, Calif. Laundry sprayer. 1,923,279; Aug. 22.
Sampson, Frederick W. (See Tatter, J. W., and Sampson.)
Sanborn, Charles H., Newburyport, assignor to Halcy, Cate, Rockwood Co., Inc., Everett, Mass. Attachment for sewing machines. 1,923,556; Aug. 22.
Sanders, Marshall T. (See Davis, R. G., and Sanders.)
Sands, Charles, Kenyon, Minn. Distributing device for pneumatic elevators. 1,923,460; Aug. 22.
Sanford, Roy S., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,923,234; Aug. 22.
Sauter, Edwin A., Mount Vernon, N. Y. Circuit breaker. 1,923,889; Aug. 22.

Schell, Erich, Dortmund, assignor to the Firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Eliminating arsenic and antimony from iron ores and manganese ores. 1,923,511; Aug. 22.
Schilling, Heinrich. (See Eisenhut, O., Schilling, and Baumann.)
Schlemm, Robert, Chicago, Ill. Bread toaster. 1,923,590; Aug. 22.
Schmidt, Adolph T. (See Lindemann, W. C., and Schmidt.)
Schmidt, George A., Walnut Park, Calif. Pneumatic truck tire remover. 1,923,750; Aug. 22.
Schmidt, Karl F. (See Fuller, L., and Schmidt.)
Schmidt, Walther, H. Bothmann, and J. Ruhrmann, Bitterfeld, Germany, assignors, by mesne assignments, to Magnesium Development Corporation. Improving the mechanical properties of magnesium and its alloys. 1,923,591; Aug. 22.
Schmidt, Walther, H. Bothmann, Bitterfeld, and J. Ruhrmann, Berlin-Tempelhof, Germany, assignors, by mesne assignments, to Magnesium Development Corporation. Improving the mechanical properties of magnesium and its alloys. 1,923,592; Aug. 22.
Schmieske, Carl. (See Bauer, G., and Schmieske.)
Schmitt, Edmund, Stratford, Conn. Pressure feed system for liquid fuel. 1,923,557; Aug. 22.
Schenider, Heinrich and K., Kahl-on-the-Main, assignors to E. Merck, Darmstadt, Germany. Wood wool covering. 1,923,643; Aug. 22.
Schneider, Karl. (See Schneider, Heinrich and K.)
Schnuck, Carl F., New Haven, assignor to Farrel Birmingham Company, Incorporated, Ansonia, Conn. Equalizing mechanism for belt presses or the like. 1,923,166; Aug. 22.
Schoenky, August R., and J. W. Johnson, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Shoe treating apparatus. 1,923,167; Aug. 22.
Schornstein, Joseph J., New York, N. Y. Valve handle. 1,923,691; Aug. 22.
Schramm, Carl, North Coventry, assignor to The Smyth Manufacturing Company, Hartford, Conn. Machine for shaping the backs of unbound books. Re18,920; Aug. 22.
Schrier, Donald P., and C. F. Jackson, assignors to Reynolds Spring Company, Jackson, Mich. Automatic cut-off machine. 1,923,751; Aug. 22.
Schürmann, Friedrich. (See Einbeck, F., and Schürmann.)
Schwanhausser, Walter E., Maplewood, N. J. Display device. 1,923,398; Aug. 22.
Schwartz, Frank. (See Palluch, Ferencz, assignor.)
Schwartz, Hyman, New York, N. Y. Game board. Des. 90,553; Aug. 22.
Schwarz, Eugene, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp shade. Des. 90,554; Aug. 22.
Schwarz, Eugene, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp shade. Des. 90,555; Aug. 22.
Schweitzer, Edmund O. (See Herz, Alfred, assignor.)
Scintilla Aktiengesellschaft. (See Bobli, Jakob, assignor.)
Scofield, Edgar, New York, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Combined forming and finishing mechanism. 1,923,752; Aug. 22.
Scofield, Edgar, New York, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Article distributing device. 1,923,753; Aug. 22.
Scott, Reid B. (See Carley, L. R., Scott, and Allen.)
Scott & Williams, Incorporated. (See Holt, Laurence B., assignor.)
Scudder, Mason, Clayton, assignor to Rawlings Manufacturing Company, St. Louis, Mo. Valve structure for footballs, basket balls, and the like. 1,923,890; Aug. 22.
Seelert, Frederick W., Minneapolis, Minn. Valve seat cutting device. 1,923,847; Aug. 22.
Seeley, Harold T., Lansdowne, Pa., assignor to General Electric Company. Excitation control system. 1,923,754; Aug. 22.
Seidel, Edward, Youngstown, Ohio. Apparatus for pouring steel ingots. 1,923,119; Aug. 22.
Selden Company, The. (See Jaeger, Alphons O., assignor.)
Self Locking Carton Company. (See Troyk, Felix, assignor.)
Semaria, Max, Brooklyn, N. Y. Fabric. Des. 90,556; Aug. 22.
Shafer, James A., East Cleveland, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Safety support for brake beams. 1,923,120; Aug. 22.
Sharp, Allen W., assignor to Johnson Pressed Gear Co., Ottumwa, Iowa. Automatic take-up for shaft bearings. 1,923,399; Aug. 22.
Sharp, Robert H., Chicago, Ill. Container construction for cosmetics. 1,923,755; Aug. 22.
Shaw, John C., and R. D. Shaw, Brooklyn, N. Y., assignors to Pratt & Whitney Company, Hartford, Conn. Cam cutting machine compensating means. 1,924,003; Aug. 22.
Shaw, Robert D. (See Shaw, John C. and R. D.)
Sheffield Steel Corporation. (See Gronemeyer, H. W., and Herbster, assignors.)
Sheller, Samuel H., Marion, Pa., assignor of one-half to G. R. Hamlin, Washington, D. C. Packing fruit. 1,924,053; Aug. 22.
Sherrard, Earl C., and E. Beglinger, Madison, Wis., assignors to the free use of The Government and the People of the United States of America. Molding composition and a resinous condensation product resulting from its conversion by heat and pressure. 1,923,756; Aug. 22.
Sherts, James H., Brackenridge, and J. Willits, Ford City, Pa., assignors to Duplate Corporation. Making curved composite glass plates. Re18,918; Aug. 22.
Shimer, Calvin J., Fort Wayne, Ind., assignor to The Boss Manufacturing Company, Kewanee, Ill. Ironing and pressing machine. 1,923,800; Aug. 22.
Short, Ira, Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dredge pump. 1,923,280; Aug. 22.
Shriver, Harry T. (See Mueser, Charles, assignor.)
Shriver, T., & Company. (See Mueser, Charles, assignor.)
Shuron Optical Company. (See Langknecht, Henry J., assignor.)
Siemens Electric Osmose G. m. b. H. (See Jenny, A., Siebeneicher, and Budiloff, assignors.)
Siebeneicher, Heinz. (See Jenny, A., Siebeneicher, and Budiloff.)
Sieger, Maurice P. (See Reilly, E. C., and Sieger.)
Siemens & Halske Aktiengesellschaft of Wernewerke. (See Wiessner, Alfred, assignor.)
Siemens & Halske Aktiengesellschaft. (See Appelius, Fritz, assignor.)
Silent, Harold C., Hollywood, Calif., assignor to Electrical Research Products, Inc., New York, N. Y. Sound recording system. 1,923,757; Aug. 22.
Silver, Walter H., assignor to Deere & Company, Moline, Ill. Tractor lister cultivator. 1,923,400; Aug. 22.
Simmons, Paul R., assignor to Indiana Fibre Products Company, Marion, Ind. Box folding machine. 1,923,121; Aug. 22.
Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making woven fabrics. 1,923,168; Aug. 22.
Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation Paterson, N. J. Shoe sole and making the same. 1,923,169; Aug. 22.
Simple Wire and Cable Company. (See Boggs, Charles R., assignor.)
Simplex Equipment Company. (See Coffee, Bassett M., assignor.)
Simplex Steel Products Company. (See Berger, Louis A., assignor.)
Simpson, George L., Coraopolis, assignor to Pittsburgh Research Corporation, Pittsburgh, Pa. Electric heating furnace. 1,923,644; Aug. 22.
Sinclair Refining Company. (See Kaasa, Orin G., assignor.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Skaupy, Franz, Berlin, Germany. Apparatus for refracting light rays. 1,923,891; Aug. 22.
Skillman, Newton, assignor to O. & S. Bearing Company, Detroit, Mich. Steering column bearing. 1,923,892; Aug. 22.
Slagel, Franklin G., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Evaporator. 1,923,170; Aug. 22.
Slagel, Franklin G., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Evaporator. 1,923,171; Aug. 22.
Slagel, Franklin G., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Evaporator. 1,923,172; Aug. 22.
Slagle, Clarence P., Selah, Wash. Wood sawing toy. 1,923,801; Aug. 22.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Electrical inclosure. 1,923,692; Aug. 22.
Small, Edward A., Franksville, Wis. Windshield heater. 1,923,461; Aug. 22.
Smart, Charles E. (See Egy, W. L., Day, and Smart.)
Smith, Benjamin, assignor to S. Smith, Brooklyn, N. Y. Collapsible table. 1,923,281; Aug. 22.
Smith, Charles C., East Cleveland, assignor to Monmouth Products Company, Cleveland, Ohio. Soap lather dispenser. 1,923,758; Aug. 22.
Smith, Charles P., and G. Newton, Aldwych, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Automatic telephone switch. 1,923,282; Aug. 22.
Smith, Clyde, Hopkinsville, Ky., assignor to International Communications Laboratories, Inc., New York, N. Y. Combined current value and totalising dial. 1,923,759; Aug. 22.
Smith, Earl B., Bronx, assignor to Railroad Accessories Corporation, New York, N. Y. Wiring. 1,923,893; Aug. 22.
Smith, Frank, Elland, England. Steering and other damping device for automobiles. 1,923,235; Aug. 22.
Smith, Harry F., assignor to The Gas Research Company, Dayton, Ohio. Calorimeter and fluid regulating device. 1,923,831; Aug. 22.
Smith, John A., assignor to The United States Electrical Tool Company, Cincinnati, Ohio. Grinding machine. 1,923,760; Aug. 22.
Smith, Joseph H. R., Philadelphia, Pa. Air hammer driven wrench. 1,923,122; Aug. 22.
Smith, Merle E. (See Herdeg, H. B., and Smith.)
Smith, Robert. (See Gifford, A. M., and Smith.)
Smith, Sophie. (See Smith, Benjamin, assignor.)

Smith, Walter C., Maplewood, N. J., assignor to Allied Process Corporation, New York, N. Y. Alloy. 1,923,955; Aug. 22.

Smyth Manufacturing Company, The. (See Schramm, Carl, assignor.)

Snedegar, Monteith. (See Rash, A. Z., and Rogers, assigno. s.)

Snelling, Walter O., and C. B. Koch, Allentown, Pa., assignors to Trojan Powder Company. Manufacture of detonating fuse. 1,923,761; Aug. 22.

Snyder, Frederick H., Churchville, N. Y. Tractor. 1,923,332; Aug. 22.

Somerville, Ian C., Fox Chase, Pa., assignor to Rohm & Haas Company. Soluble fatty acid condensation products. 1,924,052; Aug. 22.

Sonnett, William A., assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio. Game ball. 1,923,236; Aug. 22.

Soter, Samuel N., assignor of 60 per cent to L. N. Strike, Salt Lake City, Utah. Compressor. 1,923,333; Aug. 22.

Spaeth, Charles P., Chester, N. J. and Leroy V. Clark, Alton, Ill., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Making absorbent materials and compounds made therefrom. 1,923,848; Aug. 22.

Spatta, George, assignor to Clark Equipment Company, Buchanan, Mich. Die. 1,923,334; Aug. 22.

Spencer, Percy L., West Newton, assignor to Raytheon, Inc., Cambridge, Mass. Thermionic vapor discharge device. 1,923,335; Aug. 22.

Sperry Gyroscope Company. (See Rawlings, Arthur L., assignor.)

Spicers Limited. (See Wickham, Alfred R., assignor.)

Spring, Walter M., Springvale, assignor to Sanford Mills, Sanford, Maine. Drawing frame draft roll spring tension adjustment. 1,923,593; Aug. 22.

Sproul, Donald F., Chicago, Ill., assignor to Cardwell Westinghouse Company. Cushioning device. 1,923,894; Aug. 22.

Stahlecker, Wilhelm, Cannstatt, assignor to Vereinigte Kugellagerfabriken Aktiengesellschaft, Schweinfurt, Germany. Plug-and-socket connection. 1,923,123; Aug. 22.

Stahn, Albert, and B. Berghaus, Hanover, assignor to Albertuswerke Gesellschaft mit beschrankter Haftung, Hanover-Hainholz, Germany. Mold and core making. 1,923,237; Aug. 22.

Staiger, Allen B., Atlantic City, N. J. Web pasting device. 1,923,339; Aug. 22.

Standard Gas Equipment Corporation. (See O'Dowd, Henry W., assignor.)

Standard I. G. Company. (See Krauch, C., and Pier, assignors.)

Standard Mirror Company. (See Wolcott, Robeson B., assignor.)

Stanley, Carroll M., Piedmont, assignor to Oliver United Filters Inc., San Francisco, Calif. Flexible connection. 1,923,124; Aug. 22.

Stant, Kyle E., Connersville, Ind. Closure cap. 1,923,336; Aug. 22.

Stant, Kyle E., Connersville, Ind. Closure cap. 1,923,337; Aug. 22.

Stant, Kyle E., Connersville, Ind. Radiator cap. 1,923,338; Aug. 22.

Steckler, Nat P., New York, N. Y. Transparent, adjustable shampoo mask. 1,923,340; Aug. 22.

Stein, Jacob, Brooklyn, N. Y. Ornamental sheet fabric and producing same. 1,923,512; Aug. 22.

Steinert, Abraham, Berlin, Germany, assignor to the Firm P. Beiersdorf & Co., Inc., New York, N. Y. Bandage. 1,923,513; Aug. 22.

Stenz, Bernard F., New York, N. Y. Sample cards. 1,924,004; Aug. 22.

Stevens, Clarence C., Forestville, assignor to The New Departure Manufacturing Company, Bristol, Conn. Grinding machine. 1,923,762; Aug. 22.

Stevens, Horace D., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Washing machine. 1,924,005; Aug. 22.

Stewart, Carlton D. Berkeley, and H. R. Hughes, Oakland, Calif., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Automotive brake. 1,923,173; Aug. 22.

Stickland, Oliver W., and E. Whitworth, Stevenson, Scotland, assignors to Imperial Chemical Industries Ltd. Propellant powder and process of manufacture. 1,923,849; Aug. 22.

Stickley Brothers Company. (See Youngs, G. L., and Angle, assignors.)

Stöckel, Karl. (See Goebel, Botho, assignor.)

Stockfleth, Berger, Niles, Mich., assignor, by mesne assignments, to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Low limit bearing and making same. 1,923,514; Aug. 22.

Stoddard, Edgar S., Berwyn, assignor to The Conover Company, Chicago, Ill. Dishwashing machine. 1,923,401; Aug. 22.

Stolk, Theodor, Berlin, Germany. Racket press. 1,923,802; Aug. 22.

Stoker, Paul P., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote control apparatus. 1,923,174; Aug. 22.

Stokes, John C., Houston, Tex. Slip. 1,923,283; Aug. 22.

Stone, R. Harry, Irvington, N. J., assignor to Titeflex Metal Hose Co. Flexible tube. 1,923,693; Aug. 22.

Stoner, Willis Gordon, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, as trustee for Steeldraulic Brake Corporation, Detroit, Mich. Method and apparatus for lining brake shoes. 1,923,462; Aug. 22.

Story, Ela D., Tyler, Tex. Shopping bag. 1,924,006; Aug. 22.

Story, Walter D. (See Williams, G. T., and Story.)

Straub, Walter, Munich, Germany. Making purified extracts from drugs containing digitalis glycosides. 1,923,238; Aug. 22.

Streib, Charles J., New Castle, Pa. Grave vault. 1,923,956; Aug. 22.

Strike, Louis N. (See Soter, Samuel N., assignor.)

Strohschneider, Otto, Graz, Austria. Trap nest for hens. 1,923,850; Aug. 22.

Stuart, John L., Oakland, Calif. Electric power mechanism for operating awnings. 1,923,175; Aug. 22.

Studebaker Corporation, The. (See Hughes, James R., assignor.)

Studebaker Corporation, The. (See Ullery, Fred E., assignor.)

Stull Process Company. (See Stull, Ray T., assignor.)

Stull, Ray T., Washington, D. C., assignor to Stull Process Company, Savannah, Ga. Whirlpool cleaner. 1,923,515; Aug. 22.

Submarine Signal Company. (See Hayes, Hammond V., assignor.)

Submarine Signal Company. (See Williams, Robert L., assignor.)

Suchy, Robert, K. Stalb, and W. Moschel, Bitterfeld, Germany, assignors, by mesne assignments, to Magnesium Development Corporation. Producing anhydrous nonvolatile metal chlorides. 1,923,594; Aug. 22.

Sunde, Benjamin W. (See McCoy, A. G., and Sunde.)

Super Cement Company, The. (See Lundteigen, John H., assignor.)

Sutherland, Daniel M., jr. (See Farley, Francis S., assignor.)

Sutton, Harry G., Syracuse, assignor to United States Hoffman Machinery Corporation, New York, N. Y. Garment press. 1,923,516; Aug. 22.

Swaninger, William, assignor to The Telescope Cot Bed Company, Granville, N. Y. Folding chair. 1,923,517; Aug. 22.

Swartwout Company, The. (See Mastenbrook, Henry J., assignor.)

Tanner, Hubert D., West Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Gear tooth rounder. 1,923,763; Aug. 22.

Tarr, Steven G., Whiting, Ind. Pressure gauge. 1,923,240; Aug. 22.

Tatter, John W., Chicago, Ill., and F. W. Sampson, Dayton, Ohio, assignor to Lewis Differential Company, Chicago, Ill. Brake operating device. 1,923,463; Aug. 22.

Taub, Ludwig, and W. Kropp, Elberfeld, Germany, assignors, to Winthrop Chemical Company, Inc., New York, N. Y. Barbituric acid derivative. 1,923,239; Aug. 22.

Tausig, Walter. (See Burstyn, W., and Tausig.)

Taylor, Edward H. (See Taylor, James H. and E. H.)

Taylor Forge and Pipe Works. (See Maroto, Jorge, assignor.)

Taylor, James H. and E. H., Chicago, Ill. Spiral pipe welding machine. 1,923,284; Aug. 22.

Technicolor, Inc. (See Troland, Leonard T., assignor.)

Tefag Textil Finanz A. G. (See Rossmann, Rudolf, assignor.)

Telefonaktiebolaget L. M. Ericsson. (See Löfgren, Erik O., assignor.)

Telefunken Gesellschaft fur Drahtlose Telegraphie mit beschrankter Haftung. (See Wiegand, Erich, assignor.)

Teleregister Corporation, The. (See Frischknecht, Ernest, assignor.)

Telescope Cot Bed Company, The. (See Swaninger, William, assignor.)

Television Laboratories, Inc. (See Brolly, Archibald H., assignor.)

Temple, Paul C., assignor to A. W. Cash Company, Decatur, Ill. Control mechanism. 1,923,595; Aug. 22.

Teppema, Jan, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Accelerator of vulcanization. 1,923,957; Aug. 22.

Ter Meer, Gustav, Munich, Germany, assignor to Albert T. Otto & Sons, New York, N. Y. Centrifugal machine. 1,923,895; Aug. 22.

Texas Company, The. (See Behimer, Otto, assignor.)

Texas Company, The. (See McCollum, Burton, assignor.)

Theatre Scriptstamp Corporation of America. (See Bolton, David J., assignor.)

Thermique, Incorporated. (See Jancke, Benno F., assignor.)

Thiberge, Paul L. A., Nanterre, Seine, France. Liquid distributor. 1,923,518; Aug. 22.

Thomasson, Robert C. (See MacRae, P. C., and Thomasson.)

Thompsett, Harry A. (See Buckle, H. L. T., and Thompsett.)

Thompson, Arnold E., Denver, Colo. Safety razor. 1,923,125; Aug. 22.

Thompson, Herbert L., Elgin, assignor to Reynolds Wire Co., Dixon, Ill. Warp feeding mechanism for wire weaving machines. 1,923,402; Aug. 22.

Thompson, John W., Stanmore, near Sydney, New South Wales, Australia. Concrete slab structure. 1,923,645; Aug. 22.

Thomson, James D. (See Campbell, J. F., and Thomson.)

Thordarson, Chester H., Chicago, Ill. Chimney structure. 1,923,176; Aug. 22.

Throndsen, Otto A., Groton, Conn. Cooking utensil. 1,923,341; Aug. 22.

Tingley, Bessie E. (See Murdock, G. R., Johnson, and Wagner, assignors.)

Tisserant, Auguste A. H., St. Cloud, France. Compressor. 1,923,519; Aug. 22.

Titeflex Metal Hose Co. (See Stone, R. Harry, assignor.)

Todd, William, Leominster, Mass. Table construction. 1,923,241; Aug. 22.

Toledo Scale Manufacturing Company. (See Reeves, Orwell C., assignor.)

Tolpo, Carl A. E., Chicago, Ill. Pencil sharpener. Des. 90,557; Aug. 22.

Tonkinson, Frank N., Longmont, Colo. Beet puller share. 1,923,285; Aug. 22.

Trans-Lux Daylight Picture Screen Corporation. (See Bowen, Lester W., assignor.)

Trent Process Corporation. (See Trent, Walter E., assignor.)

Trent, Walter E., assignor to Trent Process Corporation, New York, N. Y. Briquette and producing same. 1,923,803; Aug. 22.

Tricard, René, Paris, France, assignor to Lentheric Incorporated, New York, N. Y. Perfume bottle. Des. 90,558; Aug. 22.

Trojan Powder Company. (See Snelling, W. O., and Koch, assignors.)

Troland, Leonard T., Cambridge, Mass., assignor, by mesne assignments, to Technicolor, Inc., New York, N. Y. Photographic gelatin relief. 1,923,764; Aug. 22.

Troyk, Felix, Morris, Ill., assignor to Self Locking Carton Company. Cushioned carton. Re18,922; Aug. 22.

Trump, Edward N., Syracuse, N. Y. Mining soluble salt. 1,923 896; Aug. 22.

Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Cover for books, binders, or similar articles. 1,923,646; Aug. 22.

Trussell Manufacturing Company. (See Trussell, Clarence D., assignor.)

Tucker-Gilmore Mfg. Company. (See Tucker, Jesse D., assignor.)

Tucker, Jesse D., assignor to Tucker-Gilmore Mfg. Company, North Sacramento, Calif. Reamer. 1,923,177; Aug. 22.

Tucker, William B., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Rotary machine-prime mover power unit and method of assembling and dismantling the same. 1,923,126; Aug. 22.

Tuley, Charles N. (See Miller, E. F., Lane, and Tuley.)

Tutwiler, Bernard B. (See Larson, L., and Tutwiler.)

Twin Disc Clutch Company, The. (See Pearmain, William J., assignor.)

Tyler, Squire D. (See Fredrickson, A. E., and Tyler.)

Udine, Fred F., Williams, assignor of one-half to George Banks, Prescott, Ariz. Combined holder and ash receiver for cigars and cigarettes. 1,923,242; Aug. 22.

Uhde, Georg F., Bovinghausen, Germany, assignor to the Firm Patentverwertungs A. G. Alpina, S. A. pour L'Exploitation de Brevets Alpina, Patents Exploitation cy Alpina Ltd., Basel, Switzerland. Treating gases. 1,923,897; Aug. 22.

Ullery, Fred E., assignor to The Studebaker Corporation, South Bend, Ind. Shock sheorber. 1,923,128; Aug. 22.

Ulrich, Anderson, Madison, Wis. Window construction. 1,923,605; Aug. 22.

Ulrich, Heinrich, J. Nuesslein and P. Koerding, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort - on - the - Main, Germany. Hydroxy alkyl ethers of tertiary amines and preparing same. 1,923,178; Aug. 22.

Ulrich, Heinrich, and J. Nuesslein, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Treatment of textiles and agents therefor. 1,923,179; Aug. 22.

Ulrich, Heinrich, and J. Nuesslein, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Production of coloring preparations and their application. 1,923,243; Aug. 22.

Unger, Paul O., assignor to Wilson-Jones Company, Chicago, Ill. Record binder. 1,923,851; Aug. 22.

Union Metal Products Company. (See Gilpin, Garth G., assignor.)

Union Metal Products Company. (See Kass, P., and Goodwin, assignors.)

Union Switch & Signal Company, The. (See Bone, Herbert L., assignor.)

Union Switch & Signal Company, The. (See Stoker, Paul P., assignor.)

United Autographic Register Co. (See Jensen, Louis, assignor.)

United Engineering & Foundry Company. (See Reilly, E. C., and Sieger, assignors.)

United Shoe Machinery Corporation. (See Ashworth, Fred, assignor.)

United Shoe Machinery Corporation. (See Bunker, Dinsmore L., assignor.)

United Shoe Machinery Corporation. (See Lawson, Robert H., assignor.)

United Shoe Machinery Corporation. (See Miller, Max C., assignor.)

United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)

United Shoe Machinery Corporation. (See Ricks, Fred, assignor.)

U. S. Ring Traveler Company. (See Gilligan, George H., assignor.)

United Shoe Machinery Corporation. (See Schoenky, A. R., and Johnson, assignors.)

United Shoe Machinery Corporation. (See Simmons, Ralph C., assignor.)

United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)

United States Electrical Tool Company, The. (See Smith, John A., assignor.)

United States Hoffman Machinery Corporation. (See Manchester, Merle L., assignor.)

United States Hoffman Machinery Corporation. (See Sutton, Harry G., assignor.)

U. S. Slicing Machine Company. (See van Berkel, Cornelis F. M., assignor.)

U. S. Slicing Machine Company. (See Van Duyn, Adrianus, assignor.)

U. S. Slicing Machine Company. (See van Hoorne, Jetse, assignor.)

Universal Oil Products Company. (See Weber, H. C., and McAdams, assignors.)

Universal Products Co. Inc., The. (See Warner, Archibald A., assignor.)

Utah Radio Products Co. (See Barrett, Edward L., assignor.)

Vacuum Gauge Company. (See Moise, H. D., and Beall, assignors.)

Van Berkel, Cornelis F. M., Wassenar, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 1,923,852; Aug. 22.

Van Brunt, Harry D. (See Higgins, C. C., and Van Brunt.)

Van Brunt Manufacturing Company. (See Erdman, Theodore J., assignor.)

Vanderwerp, Harry L., Highland Park, Ill. Imprinting machine. 1,923,596; Aug. 22.

Van Duyn, Adrianus, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine guide. 1,923,853; Aug. 22.

Van Hoorn, Jetse, Voorburg, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 1,923,854; Aug. 22.

Van Ranst, Cornelius W., Auburn, Ind., assignor, by mesne assignments, to Manning & Co., Chicago, Ill. Automobile construction. 1,923,342; Aug. 22.

Veale, George W., Cleveland Heights, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Automobile heater. 1,923,765; Aug. 22.

Veenschoten, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Relief valve. 1,923,127; Aug. 22.

Vera, John F., assignor of one-third to H. H. Osborn and one-third to A. W. Mathis, Chicago, Ill. Lock bolt, nut, or screw. 1,923,647; Aug. 22.

Vereinigte Kugellagerfabriken Aktiengesellschaft. (See Stahlecker, Wilhelm, assignor.)

Vereinigte Stahlwerke Aktiengesellschaft. (See Hinderer, Eugen, assignor.)

Vereinigte Stahlwerke Aktiengesellschaft, the Firm. (See Schell, Erich, assignor.)

Vickers, William H., Liberal, Kans. Toy circus. 1,923,244; Aug. 22.

Victor, Alexander F., New York, N. Y. Film control device. 1,923,855; Aug. 22.

Victor Chemical Works. (See Janota, Joseph, jr., assignor.)

Victor Talking Machine Company. (See Whitaker, Alfred, assignor.)

Vivian, George S., Norbury, London, assignor of one-half to T. B. Ford Limited, Loudwater, England. Container for ink. 1,923,648; Aug. 22.

Von Okolicsanyi, Franz, Nuremberg, Germany. Picture assembling apparatus for television receivers. 1,923,520; Aug. 22.

Von Seth, Rutger H., Avesta, and Bo M. S. Kalling, Djursholm, assignors to A. Johnson & Co., Stockholm, Sweden. Purifying iron from sulphur. 1,923,286; Aug. 22.

Von Wedel, Carl J. R. H., Berlin, Germany, assignor, by mesne assignments, to Electrons, Inc. Electrical discharge tube. 1,923,521; Aug. 22.

Vortex Cup Company. (See Bares, R., and Wood, assignors.)

Wade, Charles, Arlington, Mass. Controlling apparatus for automobile signal systems. 1,923,343; Aug. 22.

Wagner, Glenn H., Belleville, assignor, by mesne assignments, to National Aluminate Corporation, Chicago, Ill. Making dry sodium aluminate. 1,923,464; Aug. 22.

Wagner, Herbert E. (See Murdock, G. R., Johnson, and Wagner.)

Wahlberg, John, East Orange, N. J., assignor to Westinghouse Lamp Company. Combined coil winding and stretching machine. 1,923,898; Aug. 22.

Walker, Burnett. (See Nelson, William, assignor.)

Walker, Clinton L., Piedmont, Calif. Bearing lubricator. 1,923,597; Aug. 22.

Walker, Harold L., Brooklyn, N. Y., assignor to The Jacobs Bros. Co. Inc. Slicing machine. 1,923,129; Aug. 22.

Walker, Harry W., Dallas, Tex. Milk bottle crate. 1,923,344; Aug. 22.

Walker, Herbert G. (See Pritchett, G. A., and Walker.)
Walker, Jay P., et al. (See Walker, Jay P., assignor.)
Walker, Jay P., Tulsa, Okla. Separator. 1,923,599; Aug. 22.
Walker, Jay P., assignor, by mesne assignments, of fifty-four per cent to J. P. Walker, forty per cent to G. O. Marchant, and six per cent to C. G. Wells, Tulsa, Okla. Separator. 1,923,598; Aug. 22.
Wallace, Charles F., Westfield, assignor to Wallace & Tiernan Company, Inc., Belleville, N. J. Flow meter. 1,924,076; Aug. 22.
Wallace, Floyd D., assignor to J. D. Adams Manufacturing Company, Indianapolis, Ind. Elevating grader. 1,924,054; Aug. 22.
Wallace, Floyd D., W. A. Cost, and J. W. Hartley, assignors to J. D. Adams Manufacturing Company, Indianapolis, Ind. Elevating grader. 1,924,055; Aug. 22.
Wallace, James D., Washington, D. C. Telegraphic keying system for electron tube circuits. 1,923,345; Aug. 22.
Wallace & Tiernan Company. (See Wallace, Charles F., assignor.)
Walsh, Michael J., San Diego, assignor to Keico Company, Los Angeles, Calif. Nonshatterable glass and making same. 1,923,245; Aug. 22.
Walsoe, Sigurd L., Springdale, Conn., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,923,766; Aug. 22.
Wappler Electric Company. (See Mutscheller, Arthur, assignor.)
Warden, Franklin M. (See Holt, Robert W., assignor.)
Warner, Archibald A., Royal Oak, Mich., assignor to The Universal Products Co. Inc. Power transmitting mechanism. 1,923,649; Aug. 22.
Warner, Clarence, Dayton, Ohio, assignor to Delco-Light Company, Rochester, N. Y. Gas producing apparatus. 1,923,600; Aug. 22.
Wasser, Joseph J., assignor to Pevely Dairy Company, St. Louis, Mo. Display device. 1,923,856; Aug. 22.
Waterbury Tool Company, The. (See Ellis, Arthur L., assignor.)
Waterman, L. E., Company. (See Larsen, Gabriel, assignor.)
Waters-Genter Company. (See Harris, Jesse.)
Watling, Thomas W. B., Chicago, Ill. Coin controlled amusement apparatus. 1,923,287; Aug. 22.
Watson, Henry P. (See Cullen, H. E., and Ronning, assignors.)
Watson, William W., Jamestown, N. Y. Screen. 1,923,346; Aug. 22.
Waugh, Delphin C. (See Lewis, K. R., and Waugh.)
Waukesha Motor Company. (See Horning, Harry L., assignor.)
Wayne Company. (See Casterline, David M., assignor.)
Weatherhead, Albert J., jr., assignor to The Weatherhead Company, Cleveland, Ohio. Fitting. 1,924,007; Aug. 22.
Weatherhead Company, The. (See Weatherhead, Albert J., jr., assignor.)
Weaver, Caius E., Schenectady, N. Y., assignor to General Electric Company. Control system for rotary drilling. 1,923,694; Aug. 22.
Weaver, Elverton W., Cleveland Heights, assignor to The Columbia Axle Company, Cleveland, Ohio. Nonmetallic connection. 1,923,601; Aug. 22.
Webb, Arthur R., Milwaukee, Wis., assignor to The Rightway Corporation. Applying push or pull of motor vehicles to increase traction. 1,923,288; Aug. 22.
Webb, Lawrence H., London, England, assignor to International Standard Electric Corporation, New York, N. Y. High speed tape recorder. 1,923,403; Aug. 22.
Weber, Harold C., Milton, and W. H. McAdams, Brookline, Mass., assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 1,923,289; Aug. 22.
Weck, Alexander E., Dolau, Germany. Mechanical grate-charging device. 1,923,246; Aug. 22.
Wedmore, Edmund B. (See Whitney, W. B., and Wedmore.)
Wehrle Company, The. (See Pickup, George E., assignor.)
Weil, Emile, New Orleans, La. Roof flashing. 1,924,008; Aug. 22.
Weil, Emile, New Orleans, La. Roof flashing. 1,924,009; Aug. 22.
Weir, Charles A., Kansas City, Mo. Swinging scaffold. 1,923,465; Aug. 22.
Weirich, Wallace V., assignor to O. D. Jennings & Company, Chicago, Ill. Vending machine. 1,923,130; Aug. 22.
Weiss, Arthur J. (See Fransen, E. T., and Weiss.)
Weiss, Samuel, Brooklyn, N. Y. Tag and attaching means therefor. 1,923,602; Aug. 22.
Weldon, Chichester P., assignor to The New Departure Manufacturing Company, Bristol, Conn. Lubricator. 1,923,767; Aug. 22.
Wellman Engineering Company, The. (See Robin, Philip T., assignor.)
Wells, C. G., et al. (See Walker, Jay P., assignor.)
Wenzel, Charles. (See Gray, H. F., and Wenzel.)
Wesnigk, Erwin, Berlin, Germany. Hydroplane. 1,923,958; Aug. 22.
West, Starling A., Detroit, Mich., assignor to The Murray Corporation of America. Vehicle body. 1,923,466; Aug. 22.
Westerfield, Granville G., Indianapolis, Ind. Inhaler. 1,923,650; Aug. 22.
Western Gas Construction Company. (See Barr, Walter A., assignor.)
Western Union Telegraph Company, The. (See Pierson, Oscar E., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)
Westinghouse Air Brake Company, The. (See Stewart C. D., and Hughes, assignors.)
Westinghouse Electric & Manufacturing Company. (See Cody, Clifford S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eisinger, Rudolph J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hodnette, John K., assignor.)
Westinghouse Electric & Manufacturing Company. (See Miller, E. F., Lane, and Tuley, assignors.)
Westinghouse Electric & Manufacturing Company. (See Roman, Walter G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Short, Ira, assignor.)
Westinghouse Lamp Company. (See Rentschler, Harvey C., assignor.)
Westinghouse Lamp Company. (See Wahlberg, John, assignor.)
Wharton, George C., assignor to Ames Baldwin Wyoming Shovel Co., Parkersburg, W. Va. Shovel and similar structure. 1,923,467; Aug. 22.
Wheeler, Jesse, Long Beach, assignor of one-half to Lang Transportation Company, Vernon, Calif. Carburetor for internal combustion engines. 1,923,180; Aug. 22.
Wheeling Corrugating Company. (See Nesbitt, William H., assignor.)
Whitaker, Alfred, West Drayton, England, assignor to Victor Talking Machine Company. Talking machine. 1,923,559; Aug. 22.
White, James A., Lockport, N. Y., and H. Camines, Indianapolis, Ind., assignors to Harrison Radiator Corporation, Lockport, N. Y. Airplane radiator. 1,923,404; Aug. 22.
Whitehouse, John N., New York, N. Y. Refrigerator device. 1,923,522; Aug. 22.
Whitesell, John C., jr. (See Leonard, L. H., and Whitesell, jr.)
Whitney, Maurice P., assignor to Eclipse Machine Company, Elmira, N. Y. Automatic starting mechanism. 1,923,902; Aug. 22.
Whitney Metal Products Corp. (See Nord, Benjamin, assignor.)
Whitney, Paul B., Santa Monica, Calif. Automatic sign. 1,923,523; Aug. 22.
Whitney, Willis B., and E. B. Wedmore, assignors to The British Electrical and Allied Industries Research Association, London, England. Electric circuit breaker. 1,923,695; Aug. 22.
Whittaker, Frederick A., assignor to Marathon Company, Attleboro, Mass. Hinged container. 1,923,560; Aug. 22.
Whittington, James A., assignor to The Peoples Gas Light and Coke Company, Chicago, Ill. Auxiliary temperature regulator for thermostatically controlled gas-fixed refrigerators. 1,923,468; Aug. 22.
Whitworth, Edward. (See Stickland, O. W., and Whitworth.)
Whitworth, W. G. Armstrong & Company. (See Middleton, Brian M., assignors.)
Wickersham, Elmer E., Stockton, assignor, by mesne assignments, to Caterpillar Tractor Co., San Leandro, Calif. Pick-up feeder. 1,923,405; Aug. 22.
Wickes Boiler Co. (See Baker, John F. L., assignor.)
Wickham, Alfred R., Sawston, Cambridge, assignor to Spicers Limited, London, England. Machine for casting films or the like. 1,924,010; Aug. 22.
Wiegand, Erich, Hohen-Neuendorf near Berlin, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie mit beschrankter Haftung, Berlin, Germany. Making metallic films upon bodies of nonconducting oxides, especially for oxide filaments in discharge tubes. 1,923,406; Aug. 22.
Wiessner, Alfred, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt near Berlin, Germany. Telephone system. 1,923,352; Aug. 22.
Wilkinson, Wilford W., Cleveland, Ohio. Camp stove. 1,923,131; Aug. 22.
Williams, Edward T., New Rochelle, N. Y. Refrigeration. 1,923,899; Aug. 22.
Williams, George T., and W. F. Story, assignors to National Screen Company Incorporated, Suffolk, Va. Locking device for extensible screens and the like. 1,923,804; Aug. 22.
Williams Oil-O-Matic Heating Corporation. (See Williams, Walter W., assignor.)
Williams, Robert L., Newton, assignor to Submarine Signal Company, Boston, Mass. Producing sound. 1,923,959; Aug. 22.
Williams, Robert L., Newton, assignor to Submarine Signal Company, Boston, Mass. Oscillator mounting. 1,923,960; Aug. 22.
Williams, Walter W., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Control mechanism for electrically operated liquid fuel burners. 1,923,631; Aug. 22.

Willis, Clodius H., Princeton, N. J., assignor to General Electric Company. Electric valve converting apparatus. 1,923,696; Aug. 22.
Willis, Henry F., jr., Carbondale, Ill. Electric meter. 1,923,347; Aug. 22.
Willits, John. (See Sherts, J. H., and Willits.)
Willmott, John J., Montclair, N. J., assignor to Louis Farber, Yonkers, N. Y. Holder. 1,924,011; Aug. 22.
Willsea, Jasper B., assignor to Willsea Works, Rochester, N. Y. Core oven. 1,923,353; Aug. 22.
Willsea Works. (See Willsea, Jasper B., assignor.)
Wilson-Jones Company. (See Unger, Paul O., assignor.)
Wilson, Walter C., Western Springs, Ill., assignor to International Harvester Company. Mechanism for forming wire fabric. 1,923,900; Aug. 22.
Winckler, Gunnar A. F., Marblehead, Mass. Rotary combustion engine. 1,923,561; Aug. 22.
Winkle, Hallock L., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Separable electric connecter. 1,923,901; Aug. 22.
Winkler, Karl, and W. Kroenig, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Recovery of molybdenum. 1,923,652; Aug. 22.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe sewing machine. 1,923,562; Aug. 22.
Winning, Robert K., Wauwatosa, assignor to Clum Manufacturing Company, Milwaukee, Wis. Shaving and slicing mechanism. 1,923,848; Aug. 22.
Winslow, Lenna R., Miami, Fla. Elevator. 1,923,603; Aug. 22.
Winthrop Chemical Company, Inc. (See Taub, L., and Kropp, assignors.)
Wired Radio, Inc. (See Gebhard, Louis A., assignor.)
Withey, Louis L., Rome, N. Y. Floor lamp base holder. Des. 90,561; Aug. 22.
Witkin, Zara, Los Angeles, Calif. Safety driving connection for drill strings. 1,923,132; Aug. 22.
Wolcott, Robeson B., Forest Park, Ill., assignor to Standard Mirror Company, Inc., Buffalo, N. Y. Combined rear vision mirror and instrument. 1,923,768; Aug. 22.
Wolverton, Percy B., assignor to J. N. Larson, Chicago, Ill. Vacuum breaker. 1,923,349; Aug. 22.
Wood, Albert E., Springfield, Mass. Apparatus for reenforcing doors. 1,923,961; Aug. 22.
Wood, Andrew C. (See Bares, B., and Wood.)
Wood, Charles D., sr., Lakewood, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Refractory material for use in metal casting. 1,923,769; Aug. 22.
Wood, Dollye, Table Rock, Nebr. Quilting frame. 1,923,247; Aug. 22.
Wood, Frederic E., Hinsdale, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Electromagnetic device. 1,923,850; Aug. 22.
Wood, Garfield A., Algonac, Mich. Airplane control. 1,923,290; Aug. 22.
Wood, Rodney J., Dayton, Ohio, assignor to Remington Rand Inc., Buffalo, N. Y. Card index system. 1,923,133; Aug. 22.
Woodley, Minnie, Dallas, Tex. Adjustable book support and reading stand. 1,923,851; Aug. 22.
Woodruff, Graham C., assignor to The L. C. L. Corporation, Bronxville, N. Y. Freight car container. 1,923,604; Aug. 22.
Woodward, Henry T., Berkeley, Calif., assignor to Burnham Chemical Company, Reno, Nev. Recovering glaserite. 1,923,407; Aug. 22.
Woolfolk, Arthur R. (See Lewis, W. T., and Woolfolk.)
Worley, Ernest W., Edgerton, Kans. Flash light. 1,923,962; Aug. 22.
Wright-Austin Company. (See MacLean, John A., assignor.)
Wullschleger, Albert, assignor to Landis & Gyr, A. G., Zug, Switzerland. Automatic switching mechanism. 1,923,902; Aug. 22.
Wyman, Le Roy L. (See Fuller, T. S., and Wyman.)
Yingling, Frank B., assignor to Ceramic Machinery Co., Hamilton, Ohio. Tile measuring and sorting mechanism. 1,923,469; Aug. 22.
York Ice Machinery Corporation. (See Bergdoll, John G., assignor.)
Young, Geo. & Company. (See Fegan, Albert E., assignor.)
Young, Harry C., and C. Hemm, Manchester, assignor to Dunlop Rubber Company Limited, Birmingham, England. Manufacture of goods of or containing rubber. 1,923,524; Aug. 22.
Youngs, George L., and J. L. Angle, assignors to Stickley Brothers Company, Grand Rapids, Mich. Wooden bed. Des. 90,559; Aug. 22.
Youngs, George L., and J. L. Angle, assignors to Stickley Brothers Company, Grand Rapids, Mich. Wooden desk. Des. 90,560; Aug. 22.
Yundt, Michael, Company. (See Perkins, Frank P., assignor.)
Zerk, Oscar U., assignor to Alemite Corporation, Chicago, Ill. Lubricating apparatus. 1,923,408; Aug. 22.
Zerk, Oscar U., assignor to Alemite Corporation, Chicago, Ill. Centralized lubricating system. 1,923,470; Aug. 22.
Ziegler, Charles E., assignor to Clinical Supplies, Incorporated, Pittsburgh, Pa. Ointment applying syringe. 1,923,409; Aug. 22.
Zimmerer, Mark E., assignor to Kingston Products Corporation, Kokomo, Ind. Rotary pump. 1,923,291; Aug. 22.
Zimmerman, Herman W., assignor to Automotive Maintenance Machinery Co., Chicago, Ill. Tool for turning and undercutting armatures. 1,923,410; Aug. 22.
Zinselmeyer, Walter, Remscheid-Lennep, assignor to the Firm Barmer Maschinenfabrik A.-G., Wuppertal-Oberbarmen, Germany. Bobbin spinning machine for the manufacture of artificial silk. 1,924,012; Aug. 22.
Zitscher, Arthur, Offenbach-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Process for making 6-bromo-2-hydroxy-naphthalene-3-carboxylic acid. 1,923,248; Aug. 22.
Zouck, George H., Orange, N. J., assignor to Franklin Railway Supply Company, New York, N. Y. Buffer. 1,923,134; Aug. 22.
Zurstadt, George J. (See Karges, H. J., and Zurstadt.)

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 22D DAY OF AUGUST, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Absorbent materials and compounds made therefrom, Making. C. P. Spaeth and L. V. Clark. 1,923,848; Aug. 22.
Absorption method and apparatus. E. Altenkirch. Re18,924; Aug. 22.
Accelerator of vulcanization. J. Teppema. 1,923,957; Aug. 22.
Acetylene and carbon black, Production of. O. Eisenhut and H. Schilling, and P. Baumann. 1,923,140; Aug. 22.
Acid condensation products, Soluble fatty. I. C. Somerville. 1,924,052; Aug. 22.
Acid derivative, Barbituric. L. Taub and W. Kropp. 1,923,239; Aug. 22.
Acid, Making contact sulphuric. C. B. Clark. 1,923,256; Aug. 22.
Acoustic diaphragm. J. B. Brennan. 1,923,965; Aug. 22.
Acoustic diaphragms, Constructing. J. B. Brennan. 1,923,966; Aug. 22.
Activity-analysis and recording device. C. H. Niederhauser. 1,923,793; Aug. 22.
Adding machine ribbon mechanism. R. C. Coxhead and C. W. Norton. 1,923,078; Aug. 22.
Adjustable rack. A. J. Lloyd. 1,923,318; Aug. 22.
Adjustable wrench. A. E. Cariberg. 1,924,023; Aug. 22.
Advertising and calendar support, Combined. C. N. Montanye. Des. 90,546; Aug. 22.
Aerial support. R. G. Flor. 1,924,033; Aug. 22.
Aeroplane. A. T. Abram. 1,923,249; Aug. 22.
Aeroplane. P. Mosimann. 1,924,049; Aug. 22.
Age retarders. A. M. Clifford. 1,923,706; Aug. 22.
Agricultural implement. T. Brown. 1,923,253; Aug. 22.
Aim perfecting attachment for guns. L. DeFlorez. 1,923,531; Aug. 22.
Aircraft. B. H. Gudorf and U. H. Gudorf. 1,923,973; Aug. 22.
Aircraft, Display in. H. H. Haines. 1,923,725; Aug. 22.
Air hammer driven wrench. J. H. R. Smith. 1,923,122; Aug. 22.
Airplane control. G. A. Wood. 1,923,290; Aug. 22.
Airplane fuel tank. R. G. Miller. 1,923,384; Aug. 22.
Airplane propeller. J. Ostria and R. DeMay. 1,923,325; Aug. 22.
Air purifier. F. Nallinger. 1,923,498; Aug. 22.
Alcohol ester, Octyl. L. P. Kyrides. 1,923,938; Aug. 22.
Alloy. W. C. Smith. 1,923,965; Aug. 22.
Aluminium, magnesium, zinc and their alloys against corrosion, Process and product for protecting. P. Prier. 1,923,502; Aug. 22.
Amino derivatives of the anthraquinone series, Preparation of. P. H. Groggins. 1,923,618; Aug. 22.
Amino trimethylbenzenes, Production of. A. Alt. 1,923,697; Aug. 22.
Ammonium compounds, Production of. F. Jost and G. Hornung. 1,923,312; Aug. 22.
Amplifier, Direct coupled. W. Burstyn and W. Tausig. 1,923,254; Aug. 22.
Amusement apparatus, Coin controlled. T. W. B. Watling. 1,923,287; Aug. 22.
Antioxidant. A. M. Clifford. 1,923,707; Aug. 22.
Antioxidant or age retarder for rubber compounds. W. M. Lauter. 1,923,735; Aug. 22.
Antirattle and fastening device for window sash, Combination. H. B. Herdeg and M. E. Smith. 1,923,140; Aug. 22.
Antiskid device for automobiles. R. O. Couch and L. B. Eschbach. 1,923,190; Aug. 22.
Applicator, Self feeding. R. G. Leland. 1,923,316; Aug. 22.
Arch supporter. L. Pignanelli. 1,924,051; Aug. 22.
Arsenic and antimony from iron ores and manganese ores, Process for eliminating. E. Scheil. 1,923,511; Aug. 22.
Article distributing device. E. Scofield. 1,923,753; Aug. 22.
Article handling system. W. H. Mason. 1,923,548–9; Aug. 22.
Arylglycines, Production of. J. E. Jewett. 1,923,730; Aug. 22.
Ash receiver. J. H. Cohen. 1,923,529; Aug. 22.
Autographic register. L. Jensen. 1,923,829; Aug. 22.
Automatic sign. P. B. Whitney. 1,923,523; Aug. 22.
Automobile body, Convertible. W. Elser. 1,924,030; Aug. 22.
Automobile construction. C. W. Van Ranst. 1,923,342; Aug. 22.
Automobile heater. F. B. Hanchett, jr. 1,923,484; Aug. 22.
Automobile heater. G. W. Veale. 1,923,765; Aug. 22.
Automobile truck body. N. Papas. Des. 90,547; Aug. 22.
Automobiles, Device for preventing the theft or unauthorized use of. W. Blaschk. 1,923,907; Aug. 22.

Automotive brake. C. D. Stewart and H. B. Hughes. 1,923,173; Aug. 22.
Automotive heater. B. Kirsch. 1,923,676; Aug. 22.
Awning structure. W. G. Dunn. 1,923,801; Aug. 22.
Azids, Process and apparatus for the uninterrupted production of alkaline. J. Meissner. 1,923,993; Aug. 22.
Azo-dyestuffs and fiber dyed therewith, Water-insoluble. F. Henle and H. Kracker. 1,923,202; Aug. 22.
Bag: *See*—
Shopping bag.
Bag for cleaners, Discardable dust. S. M. Darling. 1,923,299; Aug. 22.
Ball, Game. W. A. Sonnett. 1,923,236; Aug. 22.
Ball joint for gauge rods and steering rods on motor vehicles. A. Rösig. 1,923,232; Aug. 22.
Balls and making same, Playground and other. A. E. Fegan. 1,923,359; Aug. 22.
Bandage. A. Steinert. 1,923,513; Aug. 22.
Bandage forming machine, Surgical. H. Robinson. 1,923,117; Aug. 22.
Bathroom fixture. A. Frankenstein. 1,923,482; Aug. 22.
Battery cable terminal tongs. P. H. Hackney. 1,923,199; Aug. 22.
Battery ignition device. W. De Fligué and P. Lavallée. 1,923,615; Aug. 22.
Bead building machine. G. G. Andrews. 1,923,699; Aug. 22.
Bead positioning ring, Multiple. H. C. Bearman. 1,923,062; Aug. 22.
Bearing. F. J. Jarvis. 1,923,211; Aug. 22.
Bearing and making same, Low limit. B. Stockfleth. 1,923,514; Aug. 22.
Bearing construction. G. G. Rockwell. 1,923,799; Aug. 22.
Bearing lubricator. C. L. Walker. 1,923,597; Aug. 22.
Bearing mounting. T. C. Delaval-Crow. 1,923,777; Aug. 22.
Beater engine rolls, Apparatus for adjusting. C. C. Riehm. 1,923,230; Aug. 22.
Bed, Institutional. R. L. Clark. 1,924,026; Aug. 22.
Bed, Wooden. G. L. Youngs and J. L. Angle. Des. 90,559; Aug. 22.
Beet puller share. F. N. Tonkinson. 1,923,285; Aug. 22.
Belt, V-shaped. H. R. Keyes and C. H. Keyes. 1,923,542; Aug. 22.
Belts, Manufacturing. R. S. Carter and H. G. Dick. 1,924,083; Aug. 22.
Belts, Method of and machine for building. W. H. Gerstenslager. 1,924,067; Aug. 22.
Bench block. A. T. Harland. 1,923,620; Aug. 22.
Berry box. J. N. Ainslie. 1,923,525; Aug. 22.
Binder, Flexible post file. F. L. Kneeland. 1,923,627; Aug. 22.
Binder, Record. P. O. Unger. 1,923,851; Aug. 22.
Binding, Slug-form. W. H. Ritenour. 1,923,116; Aug. 22.
Bit: *See*—
Well bit. Well drilling bit.
Blank cutting machine. P. Kruse. 1,923,937; Aug. 22.
Bleaching powder, Producing highly storageproof. M. Jaeger. 1,923,210; Aug. 22.
Block: *See*—
Bench block.
Blood transfusion apparatus. J. Grifols y Roig. 1,923,846; Aug. 22.
Blower unit. R. D. Delamere. 1,923,079; Aug. 22.
Board, Apparatus for production of non-warping fiber. W. H. Mason. 1,932,106; Aug. 22.
Boards, Production of nonwarping fiber. W. H. Mason. 1,923,105; Aug. 22.
Bobbin spinning machine for the manufacture of artificial silk. W. Zinselmeyer. 1,924,012; Aug. 22.
Boiler: *See*—
Locomotive boiler.
Boiler. C. W. Brabbée. 1,924,077; Aug. 22.
Boiler. T. E. Murray. 1,923,875; Aug. 22.
Book-end holder, Adjustable. E. Oldenbusch, jr. 1,923,996; Aug. 22.
Book support and reading stand, Adjustable. M. Woodley. 1,923,351; Aug. 22.
Bottle closure. A. F. Hoffman. 1,923,091; Aug. 22.
Bottle, Perfume. R. Tricard. Des. 90,558; Aug. 22.
Bottle washing machine. F. P. Perkins. 1,923,743; Aug. 22.
Box: *See*—
Berry box. Junction box.
Collapsible paper box. Storing box.
Box folding machine. P. R. Simmons. 1,923,121; Aug. 22.
Braided or plaited material. A. C. Murphy. 1,923,551; Aug. 22.

Brake: *See*—
Automotive brake. Hydraulic brake.
Fluid pressure brake. Vehicle brake.
Hand brake.
Brake. C. C. Higgins and H. D. Van Brunt. 1,923,437; Aug. 22.
Brake. R. S. Sanford. 1,923,234; Aug. 22.
Brake-beam support for car trucks, Safety. R. C. Pierce. 1,923,841; Aug. 22.
Brake drum and apron. C. E. Gable. 1,923,432; Aug. 22.
Brake equalizing system. H. A. Hille. 1,923,538; Aug. 22.
Brake mechanism. M. Loughead. 1,923,872; Aug. 22.
Brake operating device. J. W. Tatter and F. W. Sampson. 1,923,463; Aug. 22.
Brake operating mechanism. V. Bendix. 1,923,182; Aug. 22.
Brake shoe. E. J. Hirvonen. 1,923,203; Aug. 22.
Brake shoes, Method and apparatus for lining. W. G. Stoner. 1,923,462; Aug. 22.
Brake system for automotive vehicles. C. S. Bragg and V. W. Kliesrath. 1,923,186; Aug. 22.
Brake system for automotive vehicles, Hydraulic. C. S. Bragg and V. W. Kliesrath. 1,923,185; Aug. 22.
Brake testing device, Auto. H. G. Hedde. 1,923 373; Aug. 22.
Brakes, Cooling. L. C. Huck. 1,924,060; Aug. 22.
Brassière. C. Gudeman. 1,923,821; Aug. 22.
Brick, Face. J. E. Minter. 1,923,636; Aug. 22.
Briquette and producing same. W. E. Trent. 1,923,803; Aug. 22.
Broiling apparatus. G. M. Krag. 1,923,100; Aug. 22.
Brush plate assembly. H. J. Graham and L. A. Darling. 1,923,864; Aug. 22.
Brushes, Making shaving. G. D. Pushee. 1,923,884; Aug. 22.
Bucket. J. W. Lowell. 1,923,678; Aug. 22.
Bucket tally, Automatic. F. D. Ellermeier. 1,923,194; Aug. 22.
Buffer. G. H. Zouck. 1,923,134; Aug. 22.
Buffer mechanism for railway cars, Upper. G. G. Gilpin. 1,923,435; Aug. 22.
Buffing device for railway car vestibule diaphragms. P. Kass and G. S. Goodwin. 1,923,441; Aug. 22.
Building construction. L. A. Berger. 1,923 906; Aug. 22.
Bulldozer. E. R. Bacon. 1,923,412; Aug. 22.
Bumper construction. E. H. Noelting. 1,923,163; Aug. 22.
Burner: *See*—
Gas burner. Oven burner.
Burner control system. T. Clarkson. 1,923,614; Aug. 22.
Cabinet, Book. C. D. Keely and H. T. Peirson. 1,923,096; Aug. 22.
Cable and operating the same, Electric. C. F. Hirshfeld. 1,923,147; Aug. 22.
Cake cutting machine. J. R. Litty and T. B. Lundin. 1,923,871; Aug. 22.
Calking and centering means. R. J. Gollong. 1,923,927; Aug. 22.
Calorimeter and fluid regulating device. H. F. Smith. 1,923,331; Aug. 22.
Cam cutting machine compensating means. J. C. and R. D. Shaw. 1,924,003; Aug. 22.
Can end seamer. F. Krueger. 1,923,101; Aug. 22.
Can puncturing and sealing device. J. W. Dye. 1,923,779; Aug. 22.
Candle stick. M. Högg. 1,923,826; Aug. 22.
Candy support. E. H. Noilau. 1,923,275; Aug. 22.
Car heater. C. W. Darrah. 1,923,355; Aug. 22.
Carbon, Process of and apparatus for making activated. R. G. Davis and M. T. Sanders. 1,923,918; Aug. 22.
Carburetor. G. R. Ericson. 1,923,429; Aug. 22.
Carburetor. G. Hammond. 1,923,587; Aug. 22.
Carburetor, Downdraft. B. Beard. 1,923,473; Aug. 22.
Carburetor for internal combustion engines. J. Wheeler. 1,923,180; Aug. 22.
Card and ticket holder. R. M. Koch. 1,923,982; Aug. 22.
Card structure. S. B. Freiberg. 1,923,197; Aug. 22.
Cards, Sample. B. F. Stens. 1,924,004; Aug. 22.
Cars, Apparatus for cooling passenger. W. J. Madden. 1,923,547; Aug. 22.
Carton, Cushioned. F. Troyk. Re18,922; Aug. 22.
Carton for eggs and the like. J. L. Coyle. 1,923,774; Aug. 22.
Cartridge, Explosive. D. B. McCloud. 1,923,496; Aug. 22.
Case and lighter, Combined cigarette. A. F. Reilly. Des. 90,552; Aug. 22.
Cellulose fiber and producing the same, Low viscosity. G. A. Richter. 1,923,641; Aug. 22.
Cellulose material, Purification of. H. P. Bassett. 1,923,292; Aug. 22.
Central mixing plant, Automatic. P. A. Koehring. 1,923,151; Aug. 22.
Centrifugal machine. G. Ter Meer. 1,923,895; Aug. 22.
Centrifugal separation, Method and apparatus for. A. Peltzer and A. Peltzer, Jr. 1,923,454; Aug. 22.
Centrifuge. A. E. Driessner and G. B. Petsche. 1,923,258; Aug. 22.
Chair: *See*—
Folding chair. Invalid's chair.
Checkwriter. E. E. Phinney. 1,923,685; Aug. 22.
Cheese processing machine. C. A. Eckberg. 1,923,858; Aug. 22.
Chimney structure. C. H. Thordarson. 1,923,176; Aug. 22.
Christmas tree stand. G. B. Noland. 1,923,794; Aug. 22.
Chromium plated articles and making the same. G. L. Moore. 1,923,790; Aug. 22.
Cinematographic apparatus. B. E. Luboshez. 1,923,907; Aug. 22.
Circuit breaker. E. A. Sauter. 1,923,889; Aug. 22.
Circuit breaker, Electric. W. B. Whitney and E. B. Wedmore. 1,923,695; Aug. 22.
Circuit breaker, Repeater. J. P. Medlin. 1,923,323; Aug. 22.
Circuit closer for motor vehicles. R. F. Murakami. 1,923,578; Aug. 22.
Circuit control, Temperature actuated electric. I. E. McCabe. 1,923,680; Aug. 22.
Circuit controller for lifting magnets. H. E. Hodgson. 1,923,311; Aug. 22.
Circuit controlling means, Motor actuated. E. L. Barrett. 1,924,082; Aug. 22.
Circuit interrupter. E. R. C. Coe and W. F. Cassedy, Jr. 1,923,708; Aug. 22.
Circuits, Selective. P. R. Coursey. 1,923,354; Aug. 22.
Clarifying and purifying liquids, Device for. T. E. Fry. 1,923,534; Aug. 22.
Clasp. W. F. Haas. Des. 90,528; Aug. 22.
Cleaner: *See*—
Whirlpool cleaner.
Cleaner for articles of metal. O. Roth, Jr. 1,923,642; Aug. 22.
Clip for fountain pens, pencils, and the like and attaching means therefor, Fastening. G. Larsen. 1,923,269; Aug. 22.
Clock combination and carrying case therefor, Sidereal-civil. J. P. V. Heinmuller. 1,923,308; Aug. 22.
Closure cap. K. E. Stant. 1,923,336–7; Aug. 22.
Closure, for books and similar articles. A. Elsner. 1,923,081; Aug. 22.
Closure latch. N. A. Mears. 1,923,873; Aug. 22.
Cloth cutting machine. H. Lefkowits and G. Klein. 1,923,834; Aug. 22.
Clothes, Method and apparatus for washing. J. C. Nelson. 1,923,580; Aug. 22.
Clutch. W. J. Pearmain. 1,923,453; Aug. 22.
Clutch device. H. L. Bone. 1,923,568; Aug. 22.
Clutch lock for synchronizers. H. J. Murray. 1,923,386; Aug. 22.
Clutch mechanism for automobile transmissions, Synchronizing. J. H. Hunt and O. Rasmussen. 1,923,380; Aug. 22.
Clutch mechanism, Synchronizing. J. H. Hunt. 1,923,378; Aug. 22.
Clutch synchroniser, Springless. H. J. Murray. 1,923,385; Aug. 22.
Clutches, Double inertia check for synchronizing. J. H. Hunt. 1,923,379; Aug. 22.
Coal, Process and apparatus for carbonising. L. C. Karrick. 1,923,213; Aug. 22.
Coating composition, Viscosity reduced. T. F. Bradley. 1,923,704; Aug. 22.
Coatings on light metals, Production of anticorrosive protective. A. Jenny, H. Siebeneicher, and N. Budiloff. 1,923,539; Aug. 22.
Cock, Agitating plunger. S. G. Rousseau. 1,923,589; Aug. 22.
Code key cutting machine. A. H. Roos. 1,923,164; Aug. 22.
Coffee, Preparation of. W. Hoskins. 1,924,059; Aug. 22.
Coil winding and stretching machine. J. Wahlberg. 1,923,898; Aug. 22.
Coils in electric furnaces, Supporting resistor. D. F. Campbell. 1,924,079; Aug. 22.
Coin insertion saving device in clocks, counters, and like motion works. C. Rosat. 1,924,000; Aug. 22.
Coin selecting apparatus. J. Gottfried. 1,923,535; Aug. 22.
Collapsible paper box. D. C. Jacobs. 1,923,928; Aug. 22.
Collapsible table. B. Smith. 1,923,281; Aug. 22.
Collar stay. B. B. Manaster. 1,923,577; Aug. 22.
Coloring preparations and their application, Production of. H. Ulrich and J. Nuesslein. 1,923,248; Aug. 22.
Combine recleaner. D. Hewitt. 1,923,977; Aug. 22.
Combination table. G. B. Chase. 1,923,969; Aug. 22.
Combustion apparatus. C. S. Cody. 1,923,528; Aug. 22.
Compass, Gyroscopic. A. L. Rawlings. 1,923,885; Aug. 22.
Composer printing machine. W. C. Huebner. 1,923,671; Aug. 22.
Compound tool. C. Balth. 1,924,015; Aug. 22.
Compressor. S. N. Soter. 1,923,333; Aug. 22.
Compressor. A. A. H. Tisserant. 1,923,519; Aug. 22.
Concrete floor construction. M. S. Goldsmith. 1,924,035; Aug. 22.
Concrete mixer and placer, Combination. G. Fortier. 1,923,308; Aug. 22.
Concrete slab structure. J. W. Thompson. 1,923,645; Aug. 22.
Condensation product and making same. R. Robinson. 1,923,798; Aug. 22.
Condenser apparatus. E. F. Miller, E. H. Lane, and C. B. Tuley. 1,923,274; Aug. 22.
Condenser lightning protection device. A. O. Austin. 1,923,564; Aug. 22.
Confection and making the same. J. F. Robb. 1,923,587; Aug. 22.
Connection, Ball-and-socket. D. Benjamin. 1,923,414; Aug. 22.

Connection, Flexible. C. M. Stanley. 1,923,124; Aug. 22.
Connection for drill strings, Safety driving. Z. Witkin. 1,923,132; Aug. 22.
Connection, Nonmetallic. E. W. Weaver. 1,923,601; Aug. 22.
Constructional material. A. C. Fischer. 1,924,047; Aug. 22.
Container: *See*—
Hinged container. Metal container.
Container. A. E. Frederickson and S. D. Tyler. 1,923,363; Aug. 22.
Container and blank therefor, Foldable. J. A. Clemens. 1,923,065; Aug. 22.
Container construction for cosmetics. R. H. Sharp. 1,923,755; Aug. 22.
Container for ink. G. S. Vivian. 1,923,648; Aug. 22.
Container structure. H. A. Eggerss. 1,923,426; Aug. 22.
Control and safety device for railways and tramways. F. Rodolausse. 1,923,231; Aug. 22.
Control device. H. S. Chase. 1,923,968; Aug. 22.
Control lock, Pressing machine. E. Davis. 1,923,530; Aug. 22.
Control mechanism. P. C. Temple. 1,923,595; Aug. 22.
Control mechanism for electrically operated liquid fuel burners. W. W. Williams. 1,923,651; Aug. 22.
Control of alternating current motors and their supply circuits. A. H. Human. 1,923,624; Aug. 22.
Control system, Excitation. H. T. Seeley. 1,923,754; Aug. 22.
Control system for rotary drilling. C. E. Weaver. 1,923,694; Aug. 22.
Controlling apparatus for automobile signal systems. C. Wade. 1,923,843; Aug. 22.
Conveyer for furnaces. O. K. Carpenter. 1,923,772; Aug. 22.
Conveyer mechanism. W. A. Marcy. 1,923,447; Aug. 22.
Cooking utensil. J. Harris. Re18,923; Aug. 22.
Cord, Elastic. C. Faure-Roux. 1,923,926; Aug. 22.
Cords and braids, Forming composite. W. Mendel. 1,923,322; Aug. 22.
Core drill. J. H. Howard. 1,923,486; Aug. 22.
Coring machine. E. J. Bach. 1,923,069; Aug. 22.
Cornice curtain pole. C. W. Kirsch. Des. 90,532; Aug. 22.
Correcting mechanism for synchronous apparatus. O. E. Pierson. 1,924,050; Aug. 22.
Corset. G. L. Nickerson. 1,923,112; Aug. 22.
Cotton gin. B. McL. Middleton. 1,923,838; Aug. 22.
Counter for cup machines. R. Bares and A. C. Wood. 1,923,061; Aug. 22.
Counting-relay switch. F. Appelius. 1,923,060; Aug. 22.
Course-shift indicator for the double-modulation type radiobeacon. H. Diamond and F. W. Dunmore. 1,923,920; Aug. 22.
Coupler mechanism. E. P. Kinne. 1,923,674–5; Aug. 22.
Coupling: *See*—
Flexible coupling.
Coupling for drill stems, Antifriction. C. E. Reed. 1,923,323; Aug. 22.
Cover: *See*—
Meter box cover.
Cover and mounting structure, Receptacle. H. G. Bergstrom and G. B. Martin. 1,923,063; Aug. 22.
Cover for books, binders, or similar articles. C. D. Trussell. 1,923,646; Aug. 22.
Cover for spare tires. G. A. Lyon. 1,924,084; Aug. 22.
Cover for spare tires of automobiles. G. A. Lyon. 1,924,085; Aug. 22.
Covering device for planters. W. Olson. 1,924,075; Aug. 22.
Crank shaft lubrication. J. A. H. Barkelj. 1,923,808; Aug. 22.
Crate, Milk bottle. H. W. Walker. 1,923,344; Aug. 22.
Cream remover. W. R. Pool. 1,923,640; Aug. 22.
Cross rolling. L. Becker. 1,923,700; Aug. 22.
Crusher, Ear corn. O. Berga and L. A. Rambo. 1,924,019; Aug. 22.
Crystallized product from digitalis, Manufacture of a new. W. Kreis. 1,923,490; Aug. 22.
Current value and totalizing dial, Combined. C. Smith. 1,923,759; Aug. 22.
Curtain tie-back, Window. E. P. Brewer. Des. 90,525; Aug 22.
Current conducting molding for ornamental lighting. H. W. Lawrence. 1,923,270; Aug. 22.
Cushion construction. F. Burch. 1,924,022; Aug. 22.
Cushioned relief and check valve. F. Henneböhle. 1,923,621; Aug. 22.
Cushioning and centering device for railway car couplers. G. G. Gilpin. 1,923,433–4; Aug. 22.
Cushioning device. D. F. Sproul. 1,923,804; Aug. 22.
Cut-off machine, Automatic. D. P. Schrier and C. F. Jackson. 1,923,751; Aug. 22.
Cut-off mechanism. K. E. Garling. 1,923,261; Aug. 22.
Cutter head, Sliding barrel rotary-cutter-spindle. G. Gorton. 1,923,820; Aug. 22.
Decorative illuminating unit. H. M. R. Dam. Des. 90,526; Aug. 22.
Decoy. O. F. Kilgore. 1,923,442; Aug. 22.
Degaussing. J. Janota, jr. 1,923,828; Aug. 22.
Delinter. W. L. Nahm. 1,923,579; Aug. 22.
Dental appliance. F. A. Goodykoontz. 1,923,972; Aug. 22.
Dental rack and timer. D. B. Hill. 1,923,978; Aug. 22.
Dental X-ray focusing instrument. H. H. Harrison. 1,923,669; Aug. 22.
Desiccating apparatus. W. S. Bowen. 1,923,659; Aug. 22.
Desk, Wooden. G. L. Youngs and J. L. Angle. Des. 90,560; Aug. 22.
Device for keeping an infant under crib covers. F. A. Bates. 1,923,809; Aug. 22.
Die. G. Spatta. 1,923,834; Aug. 22.
Die-casting apparatus. T. C. Korsmo. 1,923,214; Aug. 22.
Die head, Circular chaser. W. J. Hogg. 1,923,265; Aug. 22.
Die head, Self opening. A. F. Breitenstein. 1,923,074; Aug. 22.
Dioleines, Production of. M. Mueller-Cunradi. 1,923,569; Aug. 22.
Dipper, Ice cream. W. M. Dean. 1,923,257; Aug. 22.
Direction finder, Portable. H. V. Hayes. 1,923,976; Aug. 22.
Dishwashing machine. E. S. Stoddard. 1,923,401; Aug. 22.
Disks, Hot rolling radially tapered. O. M. Otte. 1,923,389; Aug. 22.
Dispensing device. R. W. Hand. 1,923,974; Aug. 22.
Display device. W. E. Schwanhausser. 1,923,398; Aug. 22.
Display device. J. J. Wasser. 1,923,856; Aug. 22.
Display device, Changeable. N. A. Karlin. 1,923,575; Aug. 22.
Display reel for strip material. O. A. Boesel. Des. 90,523; Aug. 22.
Distributing device for pneumatic elevators. C. Sands. 1,923,430; Aug. 22.
Distribution of flowing fluids, Effecting. H. B. Rüder and W. Kopp. 1,923,118; Aug. 22.
Distributor, Liquid. P. L. A. Thiberge. 1,923,518; Aug. 22.
Divided materials, Process and mechanism for separating intermixed. R. Peale and R. Peale, jr. 1,923,951; Aug. 22.
Door construction for railway cars, Side. G. G. Gilpin. 1,923,784; Aug. 22.
Door construction, Railway car side. G. G. Gilpin. 1,923,783; Aug. 22.
Door for furnaces, Discharge. E. H. Ray. 1,923,886; Aug. 22.
Door, Freight car. W. P. Murphy. 1,923,791; Aug. 22.
Door, Refrigerator. G. C. Bohn. 1,923,701; Aug. 22.
Doorlatch. B. Marple and A. F. Baker. 1,923,679; Aug. 22.
Doorlatch. H. W. Rightmyer. 1,923,688; Aug. 22.
Doorlock. J. R. Hughes. 1,923,149; Aug. 22.
Doors, Apparatus for reinforcing. A. E. Wood. 1,923,961; Aug. 22.
Double disconnect switch. A. Alsaker and E. S. Cornelliussen. 1,923,805; Aug. 22.
Drawbar, Adjustable. E. H. Allen and G. H. Connors. 1,923,904; Aug. 22.
Drawing frame draft roll spring tension adjustment. W. M. Spring. 1,923,593; Aug. 22.
Dredge pump. I. Short. 1,923,280; Aug. 22.
Drill: *See*—
Core drill. Rock drill.
Grain drill.
Drive mechanism for motor vehicles. S. C. North. 1,923,795; Aug. 22.
Duplicator. B. P. Lewis. 1,923,219; Aug. 22.
Dyestuffs for leather, Azo. M. Mendoza and J. Hannon. 1,923,944; Aug. 22.
Dyestuffs of the anthraquinone series. P. Nawiasky and O. Chrzescinski. 1,923,227; Aug. 22.
Dyestuffs, Purification of blue vat. P. Nawiasky. 1,923,226; Aug. 22.
Eaves trough hanger. B. Nord. 1,923,276; Aug. 22.
Electric amplification of sounds. J. Kressmann. 1,923,870; Aug. 22.
Electric connecter, Separable. H. L. Winkle. 1,923,901; Aug. 22.
Electric cord and cable. C. R. Boggs. 1,923,859; Aug. 22.
Electric heater. J. C. Morgan. 1,923,874; Aug. 22.
Elctric heating furnace. G. L. Simpson. 1,923,644; Aug. 22.
Electric machine for recording stenographically the spoken word. C. and J. A. Richardson. 1,923,505; Aug. 22.
Electric meter. H. F. Willis, jr. 1,923,347; Aug. 22.
Electric power mechanism for operating awnings. J. L. Stuart. 1,923,175; Aug. 22.
Electric switch. H. O. Engstrom. 1,923,428; Aug. 22.
Electric switch. A. Horst. 1,923,002; Aug. 22.
Electrical connecter. W. H. Harrington. 1,924,036; Aug. 22.
Electrical connection device. J. J. Brell. 1,923,073; Aug. 22.
Electrical discharge device. W. G. Roman. 1,923,748; Aug. 22.
Electrical discharge tube. C. J. B. H. Von Wedel. 1,923,521; Aug. 22.
Electrical distribution, System of. B. M. Coffee. 1,923,709; Aug. 22.
Electrical inclosure. W. W. Sloane. 1,923,602; Aug. 22.
Electrical switch, Electrothermally actuated. E. Rosumek. 1,923,509; Aug. 22.
Electromagnetic device. F. E. Wood. 1,923,350; Aug. 22.

Electron discharge device. H. A. Pidgeon and J. O. McNally. 1,923,686; Aug. 22.
Electrooptical register of sounds or any other elastic waves. A. Guerbilsky. 1,923,619; Aug. 22.
Elevator. L. B. Winslow. 1,923,603; Aug. 22.
Emulsions, Producing. T. Robinson. 1,923,888; Aug. 22.
Equalizing mechanism for belt presses or the like. C. F. Schnuck. 1,923,166; Aug. 22.
Equipment for coursing parks, Portable. F. Flick. 1,923,085; Aug. 22.
Ethers of tertiary amines and preparing same, Hydroxy alkyl. H. Ulrich, J. Nuesslein, and P. Koerding. 1,923,178; Aug. 22.
Evaporator. F. G. Slagel. 1,923,170–2; Aug. 22.
Expansion chamber. D. M. Casterline. 1,923,912; Aug. 22.
Expansion valve. J. G. Bergdoll. 1,923,810; Aug. 22.
Explosive. G. A. Pritchett and H. G. Walker. 1,923,327; Aug. 22.
Extracts from drugs containing digitalis glycosides, Making purified. W. Straub. 1,923,288; Aug. 22.
Fabric. M. Semaria. Des. 90,556; Aug. 22.
Fabric and producing same, Ornamental sheet. J. Stein. 1,923,512; Aug. 22.
Fabric, Mechanism for forming wire. W. C. Wilson. 1,923,900; Aug. 22.
Fabrics, Loading silk containing artificial. R. Clavel. 1,923,189; Aug. 22.
Fabrics, Making woven. R. C. Simmons. 1,923,168; Aug. 22.
Fastening device. B. Goebel. 1,923,262; Aug. 22.
Faucet construction. C. H. Draper, H. W. Lee, and W. C. Grosser. 1,924,057; Aug. 22.
Faucet, Dispensing. D. H. Reeves. 1,923,585; Aug. 22.
Feed mechanism for machine tools. C. Knowles. 1,923,786; Aug. 22.
Feeding means for weaving machines. B. Rossmann. 1,923,954; Aug. 22.
Fender and running board, Combined automobile front. McC. Barclay. Des. 90,521; Aug. 22.
Ferruginous materials into spongy agglomerates, Continuous conversion of. A. Pollitet and N. Sainderichin. 1,924,034; Aug. 22.
Filament spinning apparatus. H. J. Blum. 1,923,183; Aug. 22.
Filing device. L. Loibl. 1,923,445–6; Aug. 22.
Film control device. A. F. Victor. 1,923,855; Aug. 22.
Film, Device for drying motion picture. E. T. Franzen and A. J. Weiss. 1,923,142; Aug. 22.
Films or plates, Heating photographic. B. F. Mehl and J. T. Gow. 1,923,108; Aug. 22.
Films upon bodies of nonconducting oxides, especially for oxide filaments in discharge tubes, Making metallic. E. Wiegand. 1,923,406; Aug. 22.
Filtering, Method and apparatus for continuous. A. J. Boynton and F. A. DeLisle. 1,923,136; Aug. 22.
Fire alarm and fire extinguisher device. W. B. Bronander. 1,923,660; Aug. 22.
Fire control apparatus. H. B. Ely. 1,923,082; Aug. 22.
Fire extinguisher. H. L. Parrish. 1,923,326; Aug. 22.
Fire extinguishing system. M. W. McLaren. 1,923,160; Aug. 22.
Fireplace guard screen. W. O. Dailey. 1,923,424; Aug. 22.
Fish lure. C. C. Hoage. 1,923,623; Aug. 22.
Fish lure. F. A. Ozburn. 1,923,840; Aug. 22.
Fishing, Deep sea. S. Hiller and J. J. Coney. 1,923,090; Aug. 22.
Fitting. A. J. Weatherhead, jr. 1,924,007; Aug. 22.
Flash light. A. J. Desimone. Des. 90,527; Aug. 22.
Flash light. E. W. Worley. 1,923,962; Aug. 22.
Flexible coupling. C. F. Hathaway. 1,923,307; Aug. 22.
Flexible tube. R. H. Stone. 1,923,693; Aug. 22.
Flow control apparatus. W. A. Barr. 1,923,655; Aug. 22.
Flow meter. F. A. Furlong. 1,923,260; Aug. 22.
Flow meter. C. F. Wallace. 1,924,076; Aug. 22.
Fluid operated tool. J. R. Hoffman. 1,923,205; Aug. 22.
Fluid pressure brake. C. C. Farmer. 1,923,141; Aug. 22.
Fluid pressure brake. J. C. McCune. 1,923,157; Aug. 22.
Folding chair. W. Swaninger. 1,923,517; Aug. 22.
Food products, Making. S. H. Perky. 1,923,694; Aug. 22.
Force with which a baseball strikes a target, Indicating the. J. Cooper. 1,923,297; Aug. 22.
Form, Tie. H. J. Heitzman. 1,923,824; Aug. 22.
Form, Voice coil. B. A. Engholm. 1,923,924; Aug. 22.
Forming and finishing mechanism, Combined. E. Scofield. 1,923,752; Aug. 22.
Frame: *See*—
Quilting frame. Window frame.
Receptacle frame.
Frame for transits and similar instruments. W. L. Egy, C. I. Day, and C. E. Smart. 1,923,198; Aug. 22.
Freight car container. G. C. Woodruff. 1,923,604; Aug. 22.
Friction clutch. W. F. Hughes. 1,923,438; Aug. 22.
Friction element. W. A. Blume. 1,924,021; Aug. 22.
Fruit and vegetable assorting apparatus. A. D. Edgar. 1,923,713; Aug. 22.
Fruit cleaning machine. G. E. Goodwin. 1,923,722; Aug. 22.
Fruit, Packing. S. H. Sheller. 1,924,053; Aug. 22.
Fruit pitter. J. P. Bem. 1,923,475; Aug. 22.
Fruit pitting machine. J. P. Bem. 1,923,474; Aug. 22.
Fruits, Apparatus for handling fresh. E. M. Brogden. 1,924,078; Aug. 22.
Fuel enriching means. C. F. Johnson. 1,923,868; Aug. 22.
Fuel to internal combustion engines, Method and apparatus for feeding liquid. L. O. French. 1,923,666; Aug. 22.
Fuel vaporizer and making same. W. C. Lindemann and A. T. Schmidt. 1,923,546; Aug. 22.
Fuels and products derived therefrom or other materials into valuable liquids, Conversion of solid. C. Krauch and M. Pier. 1,923,576; Aug 22.
Fuels, Apparatus for burning. W. I. Sallee. 1,923,330; Aug. 22.
Furfural from filter cakes containing it, Recovery of. A. O. Jaeger. 1,923,672; Aug. 22.
Furnace: *See*—
Electric heating furnace. Glass furnace.
Furnace. F. A. Fahrenwald. 1,923,815; Aug. 22.
Furnace conveyer shaft. O. K. Carpenter. 1,923,773; Aug. 22.
Furnace for reducing oxides with carbon under pressure, Arc. L. Burgess. 1,923,076; Aug. 22.
Furniture, Article of. H. Rueter. 1,923,690; Aug. 22.
Furniture, Casting of printing. B. M. Lanser. 1,923,218; Aug. 22.
Furniture leg, Folding. W. M. Boenning. 1,923,417; Aug. 22.
Fuse for electric circuits. A. Appel. 1,924,014; Aug. 22.
Fuse, Manufacture of detonating. W. O. Snelling and C. B. Koch. 1,923,761; Aug. 22.
Fuse plug, Reversible double ended. W. J. Luse. 1,923,158; Aug. 22.
Galley mechanism for monotype machines. F. J. Lemieux. 1,923,628; Aug. 22.
Game apparatus. C. B. Gamble. 1,923,720; Aug. 22.
Game board. H. Schwartz. Des. 90,553; Aug. 22.
Game, Football. L. H. Barringer. 1,923,607; Aug. 22.
Garment press. H. G. Sutton. 1,923,516; Aug. 22.
Gas burner. G. E. Pickup. 1,923,893–4; Aug. 22.
Gas control valve, Triple. T. B. Ryon. 1,923,165; Aug. 22.
Gas distributor, Stupefying. R. L. Clark. 1,924,025; Aug. 22.
Gas generating apparatus. A. Johnson. 1,923,541; Aug. 22.
Gas-holder, Waterless. K. Jagschitz. 1,923,093; Aug. 22.
Gas making process. A. Johnson. 1,923,540; Aug. 22.
Gas or steam turbine casing. G. Bauer and C. Schmieske. 1,923,251; Aug. 22.
Gas producing apparatus. C. Warner. 1,923,600; Aug. 22.
Gas, Producing hydrochloric acid. T. A. Mitchell. 1,923,324; Aug. 22.
Gases, Treating. G. F. Uhde. 1,923,897; Aug. 22.
Gauge: *See*—
Liquid level gauge. Water gauge.
Pressure gauge.
Gauge for cutting machines. B. F. Berry. 1,923,293; Aug. 22.
Gear mechanism, Sprag. J. Pratt. 1,923,842; Aug. 22.
Gear shift for automobiles. G. E. Bennett. 1,923,905; Aug. 22.
Gear tooth rounder. H. D. Tanner. 1,923,763; Aug. 22.
Generator device for liquid fuel stoves. G. E. Pickup. 1,923,882; Aug. 22.
Generator hook-up. H. J. Mastenbrook. 1,923,320; Aug. 22.
Glass and making same, Nonshatterable. M. J. Walsh. 1,923,245; Aug. 22.
Glass and making the same, Laminated. W. H. Moss. 1,923,111; Aug. 22.
Glass furnace. G. Luftkin. 1,923,942; Aug. 22.
Glass, Melting. F. M. Locke and F. J. Locke. 1,923,221; Aug. 22.
Glass, Safety. W. J. Belknap. 1,923,070; Aug. 22.
Glasserite, Recovering. H. T. Woodward. 1,923,407; Aug. 22.
Glove. G. T. Corombos. 1,923,298; Aug. 22.
Glucosides from digitalis, Preparation of new crystallized. W. Kreis. 1,923,491; Aug. 22.
Gluing, Process of. T. W. Dike. 1,923,922; Aug. 22.
Goblet. J. O. Arduser. Des. 90,520; Aug. 22.
Gold from its ores, Extracting. P. A. Neumann. 1,923,948; Aug. 22.
Golf practice apparatus. D. Kohn. 1,923,152; Aug. 22.
Golf tee. C. L. Moorman. 1,923,682; Aug. 22.
Goods of or containing rubber, Manufacture of. H. C. Young and C. H. Hemm. 1,923,524; Aug. 22.
Grader, Elevating. F. D. Wallace. 1,924,054; Aug. 22.
Grader, Elevating. F. D. Wallace, W. A. Cost, and J. W. Hartley. 1,924,055; Aug. 22.
Grain drill. T. J. Erdman. 1,923,259; Aug. 22.
Grate-charging device, Mechanical. A. E. Weck. 1,923,246; Aug. 22.
Grinding machine. D. F. Jones. 1,923,931; Aug. 22.
Grinding machine. J. A. Smith. 1,923,760; Aug. 22.
Grinding machine. C. C. Stevens. 1,923,762; Aug. 22.
Guard, Guy wire. J. Blackburn and H. W. Heller. 1,923,858; Aug. 22.
Guard, Vent pipe joint. E. N. Lightbown. 1,923,220; Aug. 22.
Gun, Foldable grease. S. W. Hartley. 1,923,436; Aug. 22.
Gun, Water. G. E. Robinson. 1,923,588; Aug. 22.
Gusset structure, Adjustable. L. H. Leonard and J. C. Whitesell, jr. 1,923,544; Aug. 22.

Gypsum concrete mixture. W. C. Hansen. 1,923,370; Aug. 22.
Hair waving device. B. F. Jancke. 1,924,040; Aug. 22.
Hair waving heater. E. O. Frederics. 1,923,862; Aug. 22.
Hand bag. R. Lobel. Des. 90,533; Aug. 22.
Hand brake. E. H. Lehman. 1,923,315; Aug. 22.
Handle: *See*—
Valve handle.
Hanger: *See*—
Eaves trough hanger.
Harvester. E. Patterson. 1,923,391; Aug. 22.
Hats from perspiration, Protecting. C. H. Merritt. 1,923,550; Aug. 22.
Headlight. T. H. Ambrose and E. J. Eimer. 1,923,653; Aug. 22.
Headlight protector, Automobile. F. D. Dowling. 1,923,970; Aug. 22.
Headlight testing device. J. T. Friedli and J. D. Guiss. 1,923,304; Aug. 22.
Headlight, Vehicle. W. Albers. 1,923,181; Aug. 22.
Heat insulating structure. J. L. Finck. 1,923,195; Aug. 22.
Heat insulation material. I. H. Derby. 1,923,420; Aug. 22.
Heat recovery system. J. S. Beckley. 1,923,656; Aug. 22.
Heat superheater, Radiant. H. J. Kerr and J. E. Black. 1,923,097; Aug. 22.
Heat superheater, Radiant. C. E. Lucke. 1,923,103; Aug. 22.
Heat treating, Method and apparatus for. J. W. Harsch. 1,923,145; Aug. 22.
Heat treating substances. F. D. Chapman. 1,923,421; Aug. 22.
Heater: *See*—
Automobile heater. Electric heater.
Automotive heater. Hair waving heater.
Car heater. Water heater.
Heating apparatus. E. F. Fisher. 1,923,083; Aug. 22.
Heating means. E. V. Ludwig. 1,923,940; Aug. 22.
Heel machine. F. Ashworth. 1,923,068; Aug. 22.
Height indicator. R. A. Fessenden. 1,924,032; Aug. 22.
High speed tape recorder. L. H. Webb. 1,923,403; Aug. 22.
Hinge. G. G. Glenn. 1,923,721; Aug. 22.
Hinge. N. P. Larsen. 1,923,787; Aug. 22.
Hinged container. F. A. Whittaker. 1,923,560; Aug. 22.
Holder: *See*—
Book-end holder. Necktie holder.
Card and ticket holder. Pen holder.
Gas-holder. Tobacco lathe holder.
Holder. J. J. Willmott. 1,924,011; Aug. 22.
Holder and ash receiver for cigars and cigarettes, Combined. F. F. Udine. 1,923,242; Aug. 22.
Holder for grain and the like bags or sacks, Adjustable. M. Firl. 1,923,816; Aug. 22.
Holder for tubes. O. Jansen. 1,923,929; Aug. 22.
Hosiery frames, Knocking over device for flat. K. R. Lieberknecht. 1,923,985; Aug. 22.
Housings and the like, Manufacture of. T. E. Murray, jr. Re18,925; Aug. 22.
Hub cap puller. L. H. Pembroke. 1,923,953; Aug. 22.
Hydraulic brake. A. Z. Rash and W. Rogers. 1,923,115; Aug. 22.
Hydraulic lift. C. J. Bristol. 1,923,418; Aug. 22.
Hydrocarbon oils, Treating. O. Behimer. 1,923,526; Aug. 22.
Hydrocarbons, Conversion of. H. C. Weber and W. H. McAdams. 1,923,289; Aug. 22.
Hydrocarbons of high boiling point into those of low boiling point, Conversion of. E. Galle, W. Rosinsky, and G. Hofmann. 1,923,571; Aug. 22.
Hydrocarbons of high molecular weight, Production of liquid unsaturated. W. Pungs and H. Rabe. 1,923,583; Aug. 22.
Hydrocarbons, Oxidizing gaseous. J. E. Bludworth. 1,923,610; Aug. 22.
Hydrocarbons, Process and apparatus for treating. J. Perl. 1,923,278; Aug. 22.
Hydrocarbons, Refining. O. G. Kaasa. 1,923,150; Aug. 22.
Hydrocarbons, Treatment of. C. D. Looker and E. B. Kester, H. B. Hass, and W. Z. Friend. 1,923,630; Aug. 22.
Hydroplane. E. Wesnigk. 1,923,958; Aug. 22.
Ice bunker for refrigerator cars. A. E. Mackey. 1,923,310; Aug. 22.
Ignition apparatus, Magneto-electric. J. Bohli. 1,923,184; Aug. 22.
Illuminant burning with a multicolored flame. R. Koster. 1,923,313; Aug. 22.
Illuminated display. R. N. Henderson. 1,923,309; Aug. 22.
Illuminating device and manufacturing same. J. C. Asch. 1,923,807; Aug. 22.
Illuminating device for hydrometers and the like. C. R. Carlson. 1,924,024; Aug. 22.
Impregnation process. G. G. Heghinian. 1,923,726; Aug. 22.
Imprinting machine. H. L. Vanderwerp. 1,923,596; Aug. 22.
Index system, Card. R. J. Wood. 1,923,133; Aug. 22.
Index, Visible card. J. L. Garfield. 1,923,366; Aug. 22.
Indexing device. E. J. Hirvonen. 1,923,204; Aug. 22.
Inhaler. G. G. Westerfield. 1,923,650; Aug. 22.
Ink pad. S. W. Partridge. 1,923,114; Aug. 22.
Inkwell. S. P. Mendel. 1,923,109; Aug. 22.
Internal combustion engine. A. M. Fish. 1,923,480; Aug. 22.
Internal combustion engine. H. L. Horning. 1,923,206; Aug. 22.
Internal combustion engine. H. B. Nelson. 1,923,387; Aug. 22.
Internal combustion engine. H. E. Petrilli. 1,923,744; Aug. 22.
Internal combustion engine, Rotary. A. J. Northey. 1,923,500; Aug. 22.
Invalid's chair. A. S. Edensword. 1,923,617; Aug. 22.
Iron from sulphur, Purifying. R. H. von Seth and B. M. S. Kalling. 1,923,286; Aug. 22.
Iron oxide pigments, Production of. V. Frazee. 1,923,362; Aug. 22.
Ironing and pressing machine. C. J. Shimer. 1,923,800; Aug. 22.
Jam, custard or other material in predetermined quantities, Intermittently delivering. E. Christiansen. 1,923,188; Aug. 22.
Joint: *See*—
Pipe joint.
Joint for pipings, Tight. O. Bihet. 1,924,020; Aug. 22.
Junction box. F. C. Lavarack. 1,923,939; Aug. 22.
Keg, Paper. H. C. Fisher and H. Fiedler. 1,923,716; Aug. 22.
Kiln, Tunnel. W. A. Hull. 1,923,720; Aug. 22.
Kitchen appliance. R. Hoe. 1,923,887; Aug. 22.
Knee rest. H. J. Farrar. 1,924,031; Aug. 22.
Knitting machine, Full-fashioned. K. R. Lieberknecht. 1,923,545; Aug. 22.
Knitting machine, High speed circular. G. Nobst. 1,923,949; Aug. 22.
Knitting machine. M. C. Miller. 1,923,994; Aug. 22.
Lacquer composition made from low boiling solvents, Useful. T. F. Bradley. 1,923,715; Aug. 22.
Lacquer, Nongelling. C. Bogin and V. Kelly. 1,923,702–3; Aug. 22.
Lacquer, Nongelling. V. Kelly and C. Bogin. 1,923,732; Aug. 22.
Lamp base holder, Floor. L. L. Withey. Des. 90,561; Aug. 22.
Lamp for photo-electric cells, Exciter. D. V. Edwards. 1,924,058; Aug. 22.
Lapping machine. C. E. Parkhurst. 1,923,390; Aug. 22.
Latch: *See*—
Closure latch.
Latching mechanism. F. Albach and G. R. Chervenka. 1,923,903; Aug. 22.
Lathe. J. E. Lovely. 1,923,493; Aug. 22.
Lathe, Armature turning and undercutting. O. C. Blomgren. 1,923,416; Aug. 22.
Leather, etc., Joining. O. P. Krogh. 1,923,215; Aug. 22.
Leather manufacture, Artificial. R. B. Hill. 1,923,622; Aug. 22.
Leer. F. T. Nesbitt. 1,923,581; Aug. 22.
Leer for annealing glassware. G. Lufkin. 1,923,941; Aug. 22.
Lens mount structure, Interchangeable. A. S. Howell. 1,923,376; Aug. 22.
Lens, Ophthalmic. A. E. Glancy. 1,923,572; Aug. 22.
Levees and the like, Apparatus for constructing. J. T. Chambers. 1,923,913; Aug. 22.
Lift grading machine. D. Parks. 1,923,878; Aug. 22.
Lifting appliance. A. and A. Faure. 1,923,780; Aug. 22.
Light: *See*—
Flash light.
Light. B. S. Florady. 1,923,861; Aug. 22.
Light rays, Apparatus for refracting. F. Skaupy. 1,923,891; Aug. 22.
Lighting apparatus for moving picture stages. G. R. Murdock, F. O. Johnson, and H. E. Wagner. 1,923,741; Aug. 22.
Lightning arrester. J. R. McFarlin. 1,923,943; Aug. 22.
Limestone and the recovery of carbon dioxide, Method and apparatus for burning. E. P. Gillette. 1,923,084; Aug. 22.
Line guide. C. Heddon. 1,923,263; Aug. 22.
Links for chain cables, Manufacture of. A. O. Hedfors. 1,923,201; Aug. 22.
Liquid heating apparatus. H. W. O'Dowd. 1,923,639; Aug. 22.
Liquid level gauge. H. D. Moise and H. W. Beall. 1,923,224; Aug. 22.
Liquid projecting device. C. E. Howett. 1,923,979; Aug. 22.
Loading machine. G. Manierre. 1,923 836; Aug. 22.
Lock: *See*—
Control lock.
Lock and latch. N. B. Hurd. 1,924,069; Aug. 22.
Lock construction. W. T. Kniessner. 1,923,443; Aug. 22.
Lock bolt, nut or screw. J. F. Vera. 1,923,647; Aug. 22.
Lock device. G. A. Armstrong. 1,923,411; Aug. 22.
Lock for vehicle wheels, Nut. W. Nelson. 1,923,388; Aug. 22.
Locking device for extensible screens and the like. G. T. Williams and W. F. Story. 1,923,804; Aug. 22.
Locking mechanism, Atmospheric pressure operated. H. Friedman and C. Hochmuth. 1,923 817; Aug. 22.
Locomotive boiler. W. H. Hinsch and J. Baker. 1,923,374; Aug. 22.
Locomotive, Turbine driven. A. Lysholm, F. Ljungström, and E. O. Eriksson. 1,924,062; Aug. 22.

Loop and box loop, Wear. H. V. Hanson. 1,923,371; Aug. 22.
Loudspeaker. C. Midhat. 1,924,063; Aug. 22.
Lubricating apparatus. O. U. Zerk. 1,923,408; Aug. 22.
Lubricating system, Centralized. O. U. Zerk. 1,923,470; Aug. 22.
Lubricator. L. A. Merk. 1,923,449; Aug. 22.
Lubricator. C. P. Weldon. 1,923,767; Aug. 22.
Lubricator for percussive tools. L. L. Richardson. 1,923,797; Aug. 22.
Machine for affixing opening threads to envelopes. L. A. Cherry, C. N. Fuller, and A. H. Lane. 1,923,914; Aug. 22.
Machine for casting films or the like. A. R. Wickham. 1,924,010; Aug. 22.
Machine for cutting screw threads. R. S. Crosby and F. E. Newton. 1 923,423; Aug. 22.
Machine for engraving tire molds. H. J. Hoenes. 1 923,728; Aug. 22.
Machine for feeding molten glass. K. E. Peller. 1,923,554; Aug. 22.
Machine for packing matches. M. Paridon. 1,923,950; Aug. 22.
Machine for plucking and stubbing birds. G. C. Bingham. 1,923,415; Aug. 22.
Machine for serrating tubes and the like. C. F. Coda. 1,923,477; Aug. 22.
Machine for shaping the backs of unbound books. C. Schramm. Re18,920; Aug. 22.
Machine for use in the manufacture of shoes. R. H. Lawson. 1,923,154; Aug. 22.
Machine-prime mover power unit and assembling and dismantling the same, Rotary. W. B. Tucker. 1,923,126; Aug. 22.
Machinery for handling chassis frames. C. F. Coda. 1,923,663; Aug. 22.
Machinery for packing cigarettes. W. E. Molins and G. D. Horgan. 1,923,637; Aug. 22.
Magnesium and its alloys, Improving the mechanical properties of. W. Schmidt, H. Bothmann, and J. Ruhrmann. 1,923,591–2; Aug. 22.
Manifold attachment for internal combustion engines. F. F. W. Doering. 1,923,357; Aug. 22.
Manifolding device for typewriters. J. S. Fleming. 1,924,048; Aug. 22.
Map device, Aeroplane. D. H. Norvell. 1,923,113; Aug. 22.
Marker, Highway. P. C. MacRae and R. C. Thomasson. 1,923 632; Aug. 22.
Massage device. B. B. Lipsner. 1,923,317; Aug. 22.
Mat, Making an artist's. A. B. Glenn. 1,923,483; Aug. 22.
Match package and manufacturing same. P. W. Dietmann. 1,923,616; Aug. 22.
Materials, Grinding. J. H. Lundtelgen. 1,923,383; Aug. 22.
Materials, Method of and machine for testing. M. Castricum. 1,923,296; Aug. 22.
Materials, Process and mechanism for separating intermixed divided. K. Davis. 1,923,917; Aug. 22.
Materials such as coal, lignite asphalt, etc., Process of and apparatus for the treatment of. R. J. McRae. 1,923,161; Aug. 22.
Matrix stick. A. H. Hedly. 1,923,823; Aug. 22.
Measurement for ultra-short waves, Field strength. R. H. Darbord. 1,923,916; Aug. 22.
Measuring apparatus, Liquid pressure. P. J. Johnston. 1,923,731; Aug. 22.
Measuring instrument, Electrical. H. W. Hockley. 1,924,039; Aug. 22.
Metal article and forming the same, Composite. W. Brown. 1,923,075; Aug. 22.
Metal chlorides, Producing anhydrous nonvolatile. R. Suchy, K. Staib, and W. Moschel. 1,923,594; Aug. 22.
Metal compound of o-hydroxyazo dyestuffs. H. Krzikalla and F. Bluemmel. 1,923,216; Aug. 22.
Metal container. A. B. Kinzel. 1,924,043; Aug. 22.
Metal, Method of and machine for straightening or leveling strip. W. C. McBain. 1,923,738; Aug. 22.
Metal sheets, Separating adhering rolled. E. Hinderer. 1,923,264; Aug. 22.
Metallic oxy-compounds, Process and products pertaining to treatment of. L. G. Jenness. 1,923,094; Aug. 22.
Meter: *See*—
Electric meter. Flow meter.
Meter. J. C. Diehl. 1,923,856; Aug. 22.
Meter box cover. J. L. Ford. 1,923,481; Aug. 22.
Mill-starch treatment and method. A. Peltzer and A. Peltzer, jr. 1,923,455; Aug. 22.
Milling machine structure. E. J. Kearney. 1,923,935; Aug. 22.
Mine storing means in submarine of the single hull type. M. F. Gunning. 1,923,822; Aug. 22.
Mining unit, Concrete safety. J. MacDougall. 1,924,044; Aug. 22.
Mirror and instrument, Combined rear vision. R. B. Wolcott. 1,923,768; Aug. 22.
Mixer. C. F. Gram. 1,924,080; Aug. 22.
Mixing device. A. M. Herbeman and R. B. Campbell. 1,924,038; Aug. 22.
Modulation system. W. L. Lawrence. 1,923,543; Aug. 22.
Mold and core making. A. Stahn and B. Berghaus. 1,923,287; Aug. 22.
Mold for fiber pulp and the like. F. S. Farley. 1,923,431; Aug. 22.
Mold pouring apparatus. P. M. Payne. 1,923,553; Aug. 22.
Mold treating apparatus. W. E. Begley and H. H. McGregor. 1,924,018; Aug. 22.
Molding composition and a resinous condensation product resulting from its conversion by heat and pressure. E. C. Sherrard and E. Beglinger. 1,923,756; Aug. 22.
Molding for ground wires and the like. A. Herz. 1,923,825; Aug. 22.
Molds, Manufacture of foundry. J. B. Durand. 1,924,028; Aug. 22.
Molds, Method and apparatus for making. J. Luton. 1,924,081; Aug. 22.
Molybdenum, Recovery of. K. Winkler and W. Kroenig. 1,923,652; Aug. 22.
Mooring device. L. H. Beers. 1,923,657; Aug. 22.
Mothproofing substances. W. Lommel and H. Münzel. 1,923,223; Aug. 22.
Mounting and assembly, Adjustable shaft. J. P. Lavigne. 1,924,072; Aug. 22.
Mounting for sliding vehicle windows. E. W. Ericson. 1,923,665; Aug. 22.
Mower. S. C. Dessel. 1,923,921; Aug. 22.
Mower, Tractor. C. Pearson. 1,923,952; Aug. 22.
Navigation, System and apparatus for. W. N. Fanning. 1,923,430; Aug. 22.
Navigational instrument, Gyroscopic. J. B. Henderson. 1,924,037; Aug. 22.
Necktie holder. F. Pesavento. 1,923,990; Aug. 22.
Nest, Corridor trap. H. Fleischmann. 1,924,066; Aug. 22.
Nest for hens, Trap. O. Strohschneider. 1,923,850; Aug. 22.
Nest, Hen. E. Hultine. 1,923,980; Aug. 22.
Nitrocellulose coating composition containing low boiling solvent vehicles. C. Ellis. 1,923,714; Aug. 22.
Nitriding. J. J. Egan. 1,923,814; Aug. 22.
Nozzle, Abrasive blasting. H. E. McCrery. 1,923,635; Aug. 22.
Nozzle, Adjustable. G. H. Diederich. 1,923,425; Aug. 22.
Oiler, Gravity feed. L. L. Armantrout and C. R. McCue. 1,923,857; Aug. 22.
Oiling device. F. Frelin. 1,923,717; Aug. 22.
Oiling device, Auto. F. G. Frenger. 1,923,364; Aug. 22.
Olefin-polysulphide plastic. J. C. Patrick. 1,923,392; Aug. 22.
Ophthalmic mounting. N. M. Baker. 1,923,566–7; Aug. 22.
Ore furnace, Sulphur bearing. I. Hechenbleikner. 1,923,866; Aug. 22.
Ores, Chlorinating sulphide. L. G. Jenness. 1,923,095; Aug. 22.
Ornamental device for decorative purposes, Illuminated. E. J. Graf. 1,923,144; Aug. 22.
Ornamenting tool. R. Barone. 1,923,250; Aug. 22.
Oscillator mounting. R. L. Williams. 1,923,960; Aug. 22.
Oven burner. H. J. Karges and G. J. Zurstadt. 1,924,042; Aug. 22.
Oven, Core. J. B. Willsea. 1,923,353; Aug. 22.
Package. H. J. Neumiller. 1,923,452; Aug. 22.
Package for strip or like materials. J. R. Price. 1,923,456; Aug. 22.
Packing machinery. W. E. Molins and J. W. Chalmers. 1,924,045; Aug. 22.
Pad: *See*—
Ink pad.
Pad and manufacturing same, Ophthalmic. H. J. Langknecht. 1,924,070; Aug. 22.
Pantographic scanning. W. Howey. 1,923,208; Aug. 22.
Paper and like webs, Mechanism for feeding. H. D. Black. 1,923,009; Aug. 22.
Paper machine. H. B. Henson and E. R. Johnson. 1,923,670; Aug. 22.
Peeling machine. G. P. Anstiss. 1,923,806; Aug. 22.
Pen desk set. H. Krause. 1,923,734; Aug. 22.
Pen, Fountain. R. P. Markstein. 1,923,633; Aug. 22.
Pen holder, Fountain. R. P. Markstein. 1,923,634; Aug. 22.
Pencil, Mechanical. F. C. Dell, W. D. Groseclose, and W. F. Foth. 1,923,300; Aug. 22.
Pencil, Mechanical. H. H. Lang. 1,923,153; Aug. 22.
Permanent waving apparatus. J. Carnell. 1,923,527; Aug. 22.
Petroleum, Process and apparatus for fractionating. W. W. Lowe and H. N. Lyons. 1,923,271; Aug. 22.
Phasing device. A. H. Brolly. 1,923,252; Aug. 22.
Photo-electric device. H. C. Rentschler. 1,923,844; Aug. 22.
Photo-electric device. H. C. Rentschler. 1,923,845; Aug. 22.
Photographic apparatus. V. Orlando. 1,923,997; Aug. 22.
Photographic gelatin relief. L. T. Troland. 1,923,764; Aug. 22.
Photographic material, Antihalation layer and halation-proof. K. Hebbel. 1,923,485; Aug. 22.
Pick, Combination ice. C. Lorber. 1,923,986; Aug. 22.
Pick-up. J. Mainland. 1,923,104; Aug. 22.
Pick-up feeder. E. E. Wickersham. 1,923,405; Aug. 22.
Picture assembling apparatus for television receivers. F. von Okolicsanyi. 1,923,520; Aug. 22.
Pipe cutting machine. F. J. Douglass. 1,923,778; Aug. 22.
Pipe elbows, Forming. J. Maroto. 1,923,272; Aug. 22.
Pipe fittings, Device for the manufacture of. R. J. Heckel. 1,923,372; Aug. 22.
Pipe joint. C. L. Raymond. 1,923,504; Aug. 22.

Pipe welding machine, Spiral. J. H. and E. H. Taylor. 1,923,284; Aug. 22.
Piping and the like. E. B. Luitwieler. 1,923,989; Aug. 22.
Piston closure for waterless gas holders. F. Einbeck and F. Schürmann. 1,924,029; Aug. 22.
Piston ring. H. F. Gray and C. Wensel. 1,923,573; Aug. 22.
Pitch propeller, Automatic variable. C. W. Lambert. 1,924,061; Aug. 22.
Plaiting machine. L. E. McDonough. 1,923,158; Aug. 22.
Plant for the carbonization of coal, and like material. S. R. Illingworth. 1,923,209; Aug. 22.
Plant package and making and transplating the same. J. T. Lovett, jr. 1,923,677; Aug. 22.
Plant spraying apparatus. H. J. Houpert. 1,923,266; Aug. 22.
Plants grown under glass, Method and apparatus for pollinating. W. Lafferty. 1,923,217; Aug. 22.
Plate for outboard motors, Anticavitation. D. W. King and A. L. Lockwood. Re18,921; Aug. 22.
Plates, Making curved composite glass. J. H. Sherts and J. Willits. Re18,918; Aug. 22.
Plug- and socket-connection. W. Stahlecker. 1,923,123; Aug. 22.
Plug valve. P. Carpenter. 1,923,295; Aug. 22.
Plugs of water tube boilers, Manipulating the dust-blower. J. F. L. Baker. 1,923,770; Aug. 22.
Pot, Thermostatic wax. E. J. Ray. 1,923,584; Aug. 22.
Pouch for toilet articles. E. B. Blom. 1,923,071; Aug. 22.
Power actuator. C. S. Bragg and V. W. Kliesrath. 1,923,187; Aug. 22.
Power mechanism. V. Renda. 1,923,887; Aug. 22.
Power transmitting mechanism. F. Pulsifer. 1,923,582; Aug. 22.
Power transmitting mechanism. A. A. Warner. 1,923,649; Aug. 22.
Press: *See*—
Garment press. Racket press.
Printing press.
Press. M. L. Manchester. 1,923,494; Aug. 22.
Pressure feed system for liquid fuel. E. Schmitt. 1,923,557; Aug. 22.
Pressure fermentation of dough for bread and similar bakery products. W. F. Petersen. 1,923,880; Aug. 22.
Pressure gauge. J. C. Crowley. 1,923,776; Aug. 22.
Pressure gauge. S. G. Tarr. 1,923,240; Aug. 22.
Pressure indicator. J. H. Becker. 1,923,413; Aug. 22.
Printing and slitting device. A. E. F. Moone. 1,923,946; Aug. 22.
Printing machine. J. Krell. 1,923,492; Aug. 22.
Printing machine for making film strip slides from positive or negative motion picture films. G. R. Goergens. 1,923,087; Aug. 22.
Printing press. M. W. Brueshaber. 1,923,910; Aug. 22.
Printing press. H. Fankboner. 1,923,925; Aug. 22.
Printing telegraph. A. T. MacCoy. 1,923,273; Aug. 22.
Product containing ammonium nitrate and calcium carbonate, Manufacturing a. E. Johnson. 1,924,041; Aug. 22.
Propeller mechanism, Reversing and stopping. C. J. Nock. 1,923,995; Aug. 22.
Propeller powder and manufacture. O. W. Stivkland and E. Whitworth. 1,923,849; Aug. 22.
Pull board for railway stock cars. L. Larson and B. B. Tutwiler. 1,923,983; Aug. 22.
Puller. T. C. Rush. 1,924,002; Aug. 22.
Pulleys or the like, Oiling loose. J. D. Jones. 1,923,869; Aug. 22.
Pulp screening apparatus. C. Fancher. 1,923,479; Aug. 22.
Pump: *See*—
Dredge pump. Rotary pump.
Pump. A. V. Jensen. 1,923,268; Aug. 22.
Pump. W. E. Pike. 1,923,883; Aug. 22.
Pump diaphragm. C. Mueser. 1,923,740; Aug. 22.
Push or pull of motor vehicles to increase traction, Applying. A. B. Webb. 1,923,288; Aug. 22.
Quilting frame. D. Wood. 1,923,247; Aug. 22.
Rack: *See*—
Adjustable rack.
Rack or similar article, Shoe. H. R. Perry and C. S. Jennings. Des. 90,548–9; Aug. 22.
Racket press. T. Stolk. 1,923,802; Aug. 22.
Radiator. Airplane. J. A. White and H. Camines. 1,923,404; Aug. 22.
Radiator cap. K. E. Stant. 1,923,338; Aug. 22.
Radio beacon course shifting method. F. G. Kear. 1,923,934; Aug. 22.
Radiocabinet. L. Fuller and K. F. Schmidt. 1,923,818; Aug. 22.
Radio cabinet and bookcase, Combination. M. Hanson. Des. 90,529; Aug. 22.
Radio receiving system. W. T. Lewis and A. R. Woolfolk. 1,923,155; Aug. 22.
Rake. J. W. Layne. 1,923,881; Aug. 22.
Rake, Hay. A. B. and J. B. Avilla. 1,923,606; Aug. 22. Aug. 22.
Range, Gas. R. B. Hurt. 1,923,981; Aug. 22.
Razor. H. N. Hukill. 1,923,439; Aug. 22.
Razor, Safety. T. P. Jones. 1,923,672; Aug. 22.
Razor, Safety. A. R. Thompson. 1,923,125; Aug. 22.
Reamer. J. D. Tucker. 1,923,177; Aug. 22.
Receptacle frame. R. Prahar. 1,923,687; Aug. 22.
Record blank. S. B. Freiberg. 1,923,198; Aug. 22.
Record-keeping device. M. L. Bracken. 1,923,064; Aug. 22.
Rectifier compounding systems, Preventing unbalance in. C. A. Sabbah. 1,923,749; Aug. 22.
Reenforcement for hand baskets. A. Moeller. 1,923,789; Aug. 22.
Refractory material for use in metal casting. C. D. Wood, sr. 1,923,769; Aug. 22.
Refrigerating apparatus. W. F. Baird. 1,923,472; Aug. 22.
Refrigerating apparatus. J. Miller. 1,923,451; Aug. 22.
Refrigeration. E. T. Williams. 1,923,899; Aug. 22.
Refrigerator and milk box, Combined automatic. J. F. Dalley 1,923,191; Aug. 22.
Refrigerator device. J. N. Whitehouse. 1,923,522; Aug. 22.
Relay-combination groups, Arrangement in. G. A. Betulander. 1,924,064; Aug. 22.
Relay, Slow-to-release. E. Frischnecht. 1,923,863; Aug. 22.
Relief valve. V. V. Veenschoten. 1,923,127; Aug. 22.
Remote control apparatus. P. P. Stoker. 1,923,174; Aug. 22.
Reservoir and pump for central lubrication systems, Lubricant. F. H. Gleason. 1,924,068; Aug. 22.
Resin esters, Producing. I. Rosenblum. 1,923,507; Aug. 22.
Resinous product and making same. J. V. Meigs. 1,923,321; Aug. 22.
Retaining means for rolling mill bearings. J. R. George. 1,923,782; Aug. 22.
Rim upon a wheel, Apparatus for mounting a. F. S. Riggs. 1,923,747; Aug. 22.
Ring: *See*—
Bead positioning ring. Piston ring.
Rivet feeding machine. J. W. Hughes. 1,923,377; Aug. 22.
Rock drill. J. E. Renfer. 1,923,796; Aug. 22.
Roll drive. E. Fitzgerald and R. M. Gleason. 1,923,860; Aug. 22.
Roof flashing. E. Weil. 1,924,008; Aug. 22.
Roof flashing. E. Weil. 1,924,009; Aug. 22.
Roofing product. R. B. Levis. Re18,919; Aug. 22.
Rotary combustion engine. G. A. F. Winckler. 1,923,561; Aug. 22.
Rotary pump. M. E. Zimmerer. 1,923,291; Aug. 22.
Rubber and rubber-like substances, Vulcanization of. M. Jones and W. J. S. Naunton. 1,923,932; Aug. 22.
Rubber and the improved age resisting rubber produced thereby, Treating. H. M. Bunbury, J. S. H. Davies, and W. J. S. Naunton. 1,923,911; Aug. 22.
Rubber articles, Apparatus for manufacturing thin. R. S. Killian. 1,923,738; Aug. 22.
Safety device, Aerial. I. B. Ayad. 1,923,963; Aug. 22.
Safety device for elevators. F. L. Ohler. 1,923,683; Aug. 22.
Salt, Mining soluble. E. N. Trump. 1,923,896; Aug. 22.
Salts in globular form, Producing. L. F. Nickell. 1,923,877; Aug. 22.
Sand mixer for sand blast machines. R. Ruemelin. 1,923,329; Aug. 22.
Sash-operating device, Window. D. E. Ross. 1,923,233; Aug. 22.
Scaffold, Swinging. C. A. Weir. 1,923,465; Aug. 22.
Scale, Electrically operated weighing. G. E. Platzer. 1,923,745; Aug. 22.
Screen: *See*—
Fireplace guard screen.
Screen. W. W. Watson. 1,923,846; Aug. 22.
Screening apparatus. S. D. Robins. 1,923,229; Aug. 22.
Seal, Shaft. H. E. Cullen and H. O. Ronning. 1,923,915; Aug. 22.
Seat construction, Heavy duty. A. W. Moske. 1,923,739; Aug. 22.
Seismic method of profiling geologic formations. B. McCollum. 1,923,107; Aug. 22.
Separating device. R. E. Hedberg. 1,923,200; Aug. 22.
Separator. J. P. Walker. 1,923,598–9; Aug. 22.
Sewing machine. F. Ricks. 1,923,586; Aug. 22.
Sewing machine, Shoe. E. E. Winkley. 1,923,562; Aug. 22.
Sewing machines, Attachment for. C. H. Sanborn. 1,923,556; Aug. 22.
Sewing machines, Presser-foot for. A. H. DeVoe. 1,923,080; Aug. 22.
Shade, Lamp. E. Provensano. 1,923,555; Aug. 22.
Shade, Lamp. E. Schwarz. Des. 90,554–5; Aug. 22.
Shade roller mounting. C. W. Rice. 1,923,506; Aug. 22.
Shade safety device. A. W. Adamson. 1,923,698; Aug. 22.
Shaft coupling with power shortage. R. Goldschmidt. 1,923,368; Aug. 22.
Shampoo mask, Transparent, adjustable. N. P. Steckler. 1,923,340; Aug. 22.
Sharpener, Pencil. C. A. E. Tolpo. Des. 90,557; Aug. 22.
Shaving and slicing mechanism. R. K. Winning. 1,923,348; Aug. 22.
Sheet, Apparatus for producing a composite reenforced. W. R. Collings and D. L. Gibbs. 1,923,710; Aug. 22.
Sheet material article and making the same. H. Palais. 1,923,581; Aug. 22.
Sheet material with pigments, varnishes, lacquers or the like, Apparatus for surfacing. G. M. Brown. 1,923,909; Aug. 22.
Sheet metal receptacle. W. H. Nesbitt. 1,923,742; Aug. 22.

Sheet piler. E. C. Reilly and M. P. Sieger. 1,923,458; Aug. 22.
Shield, Automobile brake. R. J. Givens. 1,923,086; Aug. 22.
Shock absorber. F. E. Ullery. 1,923,128; Aug. 22.
Shock absorbing spring. L. E. Fowler. 1,923,361; Aug. 22.
Shoe. T. O. Johnsen. 1,923,830; Aug. 22.
Shoe. C. Miller. Des. 90,535–45; Aug. 22.
Shoe and binding and stay for the same. E. B. Luitwieler. 1,923,986; Aug. 22.
Shoe, Athletic. F. E. Gaines. 1,923,865; Aug. 22.
Shoe sewing machine. D. L. Bunker. 1,923,189; Aug. 22.
Shoe sole and making the same. R. C. Simmons. 1,923,160; Aug. 22.
Shoe stiffeners, Manufacture of. S. P. Lovell. 1,923,631; Aug. 22.
Shoe treating apparatus. A. R. Schoenky and J. W. Johnson. 1,923,167; Aug. 22.
Shopping bag. E. D. Story. 1,924,006; Aug. 22.
Shovel and similar structure. G. C. Wharton. 1,923,467; Aug. 22.
Shut-off for filling spouts, Automatic. W. A. Hausen. 1,923,574; Aug. 22.
Shuttle. W. A. Graf. 1,923,536; Aug. 22.
Sign. A. E. Blumenthal. Des. 90,522; Aug. 22.
Signal device for vehicles. C. Mohr. 1,923,162; Aug. 22.
Signal system. F. W. Frink. 1,923,718; Aug. 22.
Signaling system. L. A. Gebhard. 1,923,305; Aug. 22.
Silks, Obtaining lusterless artificial. A. T. Maximoff. 1,923,495; Aug. 22.
Sinkers for knitting machines, Forming. L. B. Holt. 1,923,527; Aug. 22.
6-bromo-2-hydroxy-naphthalene-3-carboxylic acid, Making. A. Zitscher. 1,923,248; Aug. 22.
Slabs, Producing composite. A. F. Premo. 1,923,843; Aug. 22.
Slicer and shredder, Combined. M. W. McArdle and I. Jeppeson. Des. 90,534; Aug. 22.
Slicing machine. W. J. Campbell. 1,923,860; Aug. 22.
Slicing machine. C. F. M. van Berkel. 1,923,852; Aug. 22.
Slicing machine. J. van Hoorn. 1,923,854; Aug. 22.
Slicing machine. H. L. Walker. 1,923,129; Aug. 22.
Slicing machine guide. A. van Duyn. 1,923,853; Aug. 22.
Slip. J. C. Stokes. 1,923,283; Aug. 22.
Snowplow. N. W. La Clair. 1,923,444; Aug. 22.
Soap lather dispenser. C. C. Smith. 1,923,758; Aug. 22.
Sodium aluminate, Making dry. G. H. Wagner. 1,923,464; Aug. 22.
Sodium cyanide, Production of. K. Gabel. 1,923,570; Aug. 22.
Solenoid operated valve. I. E. McCabe. 1,923,681; Aug. 22.
Sound amplifying and conducting mechanism. A. D. Cordes. 1,923,066; Aug. 22.
Sound, Producing. R. L. Williams. 1,923,956; Aug. 22.
Sound recording system. H. C. Silent. 1,923,757; Aug. 22.
Sound records, Modification of. R. J. Pomeroy. 1,923,746; Aug. 22.
Sound reproducing device. L. W. Bowen. 1,923,072; Aug. 22.
Sound reproducing device. J. G. Juhasz. 1,923,831; Aug. 22.
Spar, Purifying of natural heavy. J. Müller. 1,923,497; Aug. 22.
Spectacle temple fastening device. I. Rosenbaum. 1,924,001; Aug. 22.
Spinal appliance. R. J. Barrows. 1,924,016; Aug. 22.
Spool. H. C. Howsam. 1,923,267; Aug. 22.
Spool. W. L. Rutkowski. 1,923,510; Aug. 22.
Sprayer, Laundry. N. Sameshima. 1,923,279; Aug. 22.
Sprayer, Powder. J. Anderson. 1,924,013; Aug. 22.
Spraying mechanism. A. C. Andreasen. 1,923,654; Aug. 22.
Stable ammonium salt of primula saponine. H. Legerlotz. 1,924,073; Aug. 22.
Stamp, Merchant's trading. D. J. Bolton. Des. 90,524; Aug. 22.
Starter, Engine. C. P. Brockway. 1,923,908; Aug. 22.
Starter, Engine. W. L. McGrath. 1,923,990–1; Aug. 22.
Starting mechanism, Automatic. M. P. Whitney. 1,923,992; Aug. 22.
Steam. Device for controlling the wetness of. R. A. Conley and C. Jordan. 1,923,422; Aug. 22.
Steel ingots, Apparatus for pouring. E. Seidel. 1,923,119; Aug. 22.
Steel. Manufacture of. C. Arnold. 1,923,471; Aug. 22.
Steering and other damping device for automobiles. F. Smith. 1,923,285; Aug. 22.
Steering column bearing. N. Skillman. 1,923,892; Aug. 22.
Stockings on straight knitting machine in continuous operation, Manufacturing. K. K. Lieberknecht. 1,923,984; Aug. 22.
Stop and catch, Door. O. Kartzmark. 1,923,933; Aug. 22.
Storing box. G. Rahn. 1,923,228; Aug. 22.
Stove, Camp. W. W. Wilkinson. 1,923,131; Aug. 22.
Strain insulator chain. H. Benit. 1,924,056; Aug. 22.
Stroboscopic device. F. Palluch. 1,923,277; Aug. 22.
Stroke regulator for pumps, Hydraulic. A. L. Ellis. 1,923,923; Aug. 22.
Stropping material. T. S. Fuller and L. L. Wyman. 1,923,719; Aug. 22.
Suction machine. E. N. Rosenberg. 1,923,689; Aug. 22.
Sugar, Manufacture of. L. E. Gouner. 1,923,143; Aug. 22.
Sulphoacids, Preparation of aliphatic. H. Bertsch. 1,923,608; Aug. 22.
Sulphur, Manufacturing insoluble. A. J. Gracia. 1,923,723; Aug. 22.
Support: *See*—
Aerial support. Candy support.
Support for brake beams, Safety. J. A. Shafer. 1,923,120; Aug. 22.
Support for curtains and other light articles. E. H. J. O'Halloran. 1,924,074; Aug. 22.
Supporting means for aircraft sustaining rotors. R. W. Morse. 1,923,110; Aug. 22.
Surfacing material and preparing same. Z. C. Loebel. 1,923,835; Aug. 22.
Switch: *See*—
Counting-relay switch. Electric switch.
Double disconnect switch. Telephone switch.
Switch. E. H. Jacobs. 1,923,312; Aug. 22.
Switch. L. R. Carley, R. B. Scott, and H. L. Allen. 1,923,613; Aug. 22.
Switch construction, Push button. C. Miller. 1,923,450; Aug. 22.
Switching mechanism, Automatic. A. Wullschleger. 1,923,902; Aug. 22.
Syringe, Ointment applying. C. E. Ziegler. 1,923,409; Aug. 22.
Syringe thermo-hydrometer. L. Edelmann. 1,923,192; Aug. 22.
Table: *See*—
Collapsible table. Combination table.
Table. G. F. Corduan. 1,923,067; Aug. 22.
Table construction. W. Todd. 1,923,241; Aug. 22.
Tag and attaching means therefor. S. Weiss. 1,923,602; Aug. 22.
Take-up for shaft bearings, Automatic. A. W. Sharp. 1,923,899; Aug. 22.
Talking machine. H. L. T. Buckle and H. A. Thompsett. 1,923,558; Aug. 22.
Talking machine. A. Whitaker. 1,923,559; Aug. 22.
Tank: *See*—
Airplane fuel tank.
Tank valve. E. A. Raines. 1,923,503; Aug. 22.
Tape and making same, Gummed. W. W. McLaurin. 1,923,837; Aug. 22.
Tape moistener, Gummed. A. Keck. 1,923,936; Aug. 22.
Telegraph system. R. G. Griffith. 1,923,724; Aug. 22.
Telegraphic keying system for electron tube circuits. J. D. Wallace. 1,923,345; Aug. 22.
Telephone switch, Automatic. C. P. Smith and G. Newton. 1,923,282; Aug. 22.
Telephone system. A. B. Caswell. 1,923,662; Aug. 22.
Telephone system. C. Gillings and F. T. Belas. 1,923,668; Aug. 22.
Telephone system. A. Wiessner. 1,923,352; Aug. 22.
Telephones, Operating means for automatic. A. L. Myers. 1,923,947; Aug. 22.
Temperature control of chemical reactions. S. L. Handforth. 1,923,865; Aug. 22.
Temperature regulator for thermostatically controlled gas-fired refrigerators, Auxiliary. J. A. Whittington. 1,923,468; Aug. 22.
Temperature responsive apparatus, Thermostatic and like. M. Payne. 1,923,998; Aug. 22.
Tensioning device for wires, cords or metal rods. J. Chobert. 1,923,812; Aug. 22.
Test weight case. O. C. Reeves. 1,923,457; Aug. 22.
Testing apparatus and method. A. O. Austin. 1,923,565; Aug. 22.
Textiles and agents therefor, Treatment of. H. Ulrich. and J. Nuesslein. 1,923,179; Aug. 22.
Textile fabric. E. A. Harrell. Des. 90,539; Aug. 22.
Textile fabric or similar article. G. M. Pulitzer. Des. 90,550–1; Aug. 22.
Theft of automobiles, Device for preventing. H. Hippold. 1,923,310; Aug. 22.
Thread, Tinting. C. J. Bacon. 1,923,136; Aug. 22.
Thread treating apparatus for sewing machines. F. Ashworth. 1,923,563; Aug. 22.
Throttle valve. J. De Mooy. 1,923,919; Aug. 22.
Throttle valve operating mechanism. E. J. Eisinger. 1,923,532; Aug. 22.
Tile measuring and sorting mechanism. F. B. Yingling. 1,923,469; Aug. 22.
Tire building chuck, Pneumatic. J. F. Campbell and J. D. Thomson. 1,923,705; Aug. 22.
Tire cover with contractible clamping band. G. A. Lyon. 1,924,086; Aug. 22.
Tire, Puncture proof. J. Carey. 1,923,661; Aug. 22.
Tire remover, Pneumatic truck. G. A. Schmidt. 1,923,750; Aug. 22.
Toaster, Bread. R. Schlemm. 1,923,590; Aug. 22.
Tobacco lathe holder. J. G. Craig. 1,923,664; Aug. 22.
Toddy mixer package. C. R. Helt. 1,923,089; Aug. 22.
Tomato coring and peeling machine. C. F. Delts. 1,923,712; Aug. 22.
Tool: *See*—
Compound tool. Ornamenting tool.
Fluid pressure tool.
Tool. R. E. Benton. 1,923,964; Aug. 22.
Tool. J. K. Blakeslee. 1,923,658; Aug. 22.
Tool for turning and undercutting armatures. H. W. Zimmerman. 1,923,410; Aug. 22.

Torpedo for launching from a flying machine. J. A. Bull. 1,923,612; Aug. 22.
Toy circus. W. H. Vickers. 1,923,244; Aug. 22.
Toy, Wood sawing. C. P. Slagle. 1,923,801; Aug. 22.
Track for track-laying vehicles. H. A. Knox. 1,923,099; Aug. 22.
Traction wheel. A. J. Fortescue. 1,923,196; Aug. 22.
Tractor. F. H. Snyder. 1,923,332; Aug. 22.
Tractor lister cultivator. W. H. Silver. 1,923,400; Aug. 22.
Tractor spring tooth harrow. A. E. W. Johnson and W. C. Dwyer. 1,923,930; Aug. 22.
Trailer hitch. A. M. Gifford and R. Smith. 1,923,367; Aug. 22.
Train control, Automatic. W. Naken. 1,923,499; Aug. 22.
Transformers against lightning, Protection of distribution. J. K. Hodnette. 1,923,727; Aug. 22.
Transmission. G. K. Parsons. 1,923,879; Aug. 22.
Transmission mechanism, Hydraulic. J. Bedford. 1,924,017; Aug. 22.
Transmission system. E. H. J. C. Gillett. 1,923,819; Aug. 22.
Tray, Ash. D. A. Jacobs. Des. 90,531; Aug. 22.
Tray, Ash. T. R. Moss. 1,923,638; Aug. 22.
Tray, Serving. R. G. Ross. 1,923,508; Aug. 22.
Treatment apparatus. J. B. Knight and A. J. Rainey. 1,923,098; Aug. 22.
Trichlorobenzene, Preparation of. E. C. Britton. 1,923,419; Aug. 22.
Trolley tender. E. A. Larsson. 1,923,314; Aug. 22.
Tube: *See*—
Electrical discharge tube. Vacuum tube.
Flexible tube.
Tubing of vitreous material, Fabricating. F. Hotchner. 1,923,148; Aug. 22.
Turning machine. H. Bozarth. 1,923,611; Aug. 22.
Twisting device. G. H. Gilligan. 1,923,667; Aug. 22.
Typewriting and multiple copying process. H. Jackson. 1,923,625; Aug. 22.
Typewriting machine. E. E. Barney. 1,923,771; Aug. 22.
Typewriting machine. S. L. Walsoe. 1,923,786; Aug. 22.
Uncoupling mechanism for car couplers. A. J. Baseley. 1,923,137; Aug. 22.
Urea, Syntheais of. H. J. Krase and H. C. Hetherington. 1,923,489; Aug. 22.
Utensil, Cooking. O. A. Throndsen. 1,923,341; Aug. 22.
Vacuum automobile ventilator. C. R. Hosler. 1,923,207; Aug. 22.
Vacuum breaker. P. B. Wolverton. 1,923,349; Aug. 22.
Vacuum in oil wells or the like, Apparatus for maintaining. M. F. Reed. 1,923,395; Aug. 22.
Vacuum producing means for fuel devices. W. A. Edwards and C. S. Burton. 1,923,302; Aug. 22.
Vacuum tube. E. G. Murphy. 1,923,552; Aug. 22.
Valve: *See*—
Air valve. Relief valve.
Expansion valve. Solenoid operated valve.
Gas control valve. Tank valve.
Plug valve. Throttle valve.
Valve. H. J. Mastenbrook. 1,923,788; Aug. 22.
Valve and the like, Air. I. D. Perry. 1,923,501; Aug. 22.
Valve converting apparatus, Electric. C. H. Willis. 1,923,696; Aug. 22.
Valve for corrosive fluids. K. R. Hagen. 1,923,306; Aug. 22.
Valve handle. J. J. Schornstein. 1,923,691; Aug. 22.
Valve seat cutting device. F. W. Seelert. 1,923,847; Aug. 22.
Valve stem construction. J. C. Crowley. 1,923,775; Aug. 22.
Valve structure for footballs, basket balls, and the like. M. Scudder. 1,923,890; Aug. 22.
Valves, Elimination of ripples in cascade coupled thermionic. E. O. Löfgren. 1,923,222; Aug. 22.
Vapor discharge device, Thermionic. P. L. Spencer. 1,923,335; Aug. 22.
Vault, Burial. T. H. Clark. 1,924,027; Aug. 22.
Vault, Burial. C. R. Neff. 1,923,792; Aug. 22.
Vault, Grave. C. J. Streib. 1,923,956; Aug. 22.
Vehicle. P. T. Bobin. 1,923,897; Aug. 22.
Vehicle body. R. L. Carr. 1,923,077; Aug. 22.
Vehicle body. S. A. West. 1,923,466; Aug. 22.
Vehicle brake. V. G. Apple. 1,924,046; Aug. 22.
Vehicle, Motor. J. Holan. 1,923,785; Aug. 22.
Vehicle, Motor. A. Moorhouse. 1,923,225; Aug. 22.
Vehicle, Self-propelled. F. Ljungstrom. 1,923,102; Aug. 22.
Vehicle shipping device. A. W. Leet. 1,923,382; Aug. 22.
Vehicle, Trailer. I. M. Chambers. 1,923,255; Aug. 22.
Vending machine. J. F. Drummond. 1,923,478; Aug. 22.
Vending machine. E. Mihalek. 1,923,945; Aug. 22.
Vending machine. M. H. Richardson. 1,923,396; Aug. 22.
Vending machine. W. V. Weirich. 1,923,130; Aug. 22.
Ventilator: *See*—
Vacuum automobile ventilator.
Ventilator for vehicle bodies. K. H. Brownlee. 1,923,294; Aug. 22.
Vibration detector. H. C. Hayes. 1,923,088; Aug. 22.
Vise and chuck holding block, Combined. E. H. Brown, jr. 1,923,967; Aug. 22.
Vulcanizing device. K. R. Lewis and D. C. Waugh. 1,923,736; Aug. 22.
Wall-crack cutting router. D. F. McLaren. 1,923,159; Aug. 22.
Warp feeding mechanism for wire weaving machines. H. L. Thompson. 1,923,402; Aug. 22.
Washing machine. H. D. Stevens. 1,924,005; Aug. 22.
Waste conveyer. W. E. Flanders. 1,923,781; Aug. 22.
Watch cleaning machine. M. Klein. 1,923,626; Aug. 22.
Water and apparatus therefor, Cleaning and cooling gas scrubbing. H. L. Allen. 1,923,155; Aug. 22.
Water gange. J. A. MacLean. 1,923,737; Aug. 22.
Water-heater, Induction. G. R. Decker. 1,923,711; Aug. 22.
Weather excluding device for closures. J. C. Muir and R. Loudon. 1,923,839; Aug. 22.
Web pasting device. A. B. Staiger. 1,923,339; Aug. 22.
Welding. R. W. Holt. 1,923,375; Aug. 22.
Well bit. J. H. Howard and A. C. Catland. 1,923,488; Aug. 22.
Well drilling bit. J. H. Howard and A. C. Catland. 1,923,487; Aug. 22.
Wells, holes and castings, Apparatus for determining the deviation of. J. D. Landermilk. 1,924,071; Aug. 22.
Wheel: *See*—
Traction wheel.
Wheel for motor vehicles. F. W. Burger. 1,923,811; Aug. 22.
Wheel for vehicles and airplanes. T. R. Harlan. 1,923,975; Aug. 22.
Wheels, Forming suspension wire. W. N. Booth. 1,923,476; Aug. 22.
Whey concentrate, Preparing. E. E. Eldredge. 1,923,427; Aug. 22.
Whipstock. A. G. McCoy and B. W. Sunde. 1,923,448; Aug. 22.
Whirlpool cleaner. R. T. Stull. 1,923,515; Aug. 22.
Wind harness for electric energy. C. M. Evans. 1,923,971; Aug. 22.
Window cleaning device. A. Dixon. 1,923,813; Aug. 22.
Window construction. A. Ulrich. 1,923,805; Aug. 22.
Window frame. H. G. Klopp. 1,923,832–3; Aug. 22.
Window operator. R. N. Riblet. 1,923,459; Aug. 22.
Window sash meeting rail. H. B. Foresman. 1,923,533; Aug. 22.
Windshield heater. E. A. Small. 1,923,461; Aug. 22.
Wire mattings, Apparatus for manufacturing welded. H. W. Gronemeyer and F. C. Herbster. 1,923,369; Aug. 22.
Wiring. E. B. Smith. 1,923,893; Aug. 22.
Wood wool covering. H. and K. Schneider. 1,923,643; Aug. 22.
Worktable for drill presses. W. P. Hunt and R. E. Herrstrum. 1,923,440; Aug. 22.
Wrench: *See*—
Adjustable wrench. Air hammer driven wrench.
Wrench. C. H. Leonard. 1,923,629; Aug. 22.
X-ray focus varying with the X-ray tube load, Producing an. A. Mutscheller. 1,923,876; Aug. 22.
Zinc meta arsenite, Making. L. P. Curtin. 1,924,065; Aug. 22.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 22, 1933

NOTE.—First number=class, second number=subclass, third number=patent number.

2— 41: 1,923,112
42: 1,923,821
44: 1,924,016
153: 1,923,824
159: 1,923,298
174: 1,923,340
275: 1,923,359
186: 1,924,026
5— 1: 1,923,953
7— 8: 1,924,015
8— 5: 1,923,136
6: 1,923,243
13: 1,923,189
18: 1,923,927
20: 1,923,179
9— 6: 1,923,544
10— 96: 1,923,074
101: 1,923,423
103: 1,923,265
11— 5: R. 18,920
12— 1: 1,923,167
17: 1,923,154
50: 1,923,098
26: 1,923,644
26: 1,924,079
31: 1,923,076
15— 31: 1,924,005
50: 1,923,690
89: 1,923,743
252: 1,923,813
128: 1,923,721
17— 11: 1,923,415
18— 2: 1,923,733
8: 1,924,012
15: 1,924,010
18: 1,923,736
31: 1,924,018
50: 1,923,706
1,923,707
1,923,735
1,923,911
53: 1,923,932
1,923,957
58: 1,923,594
59: 1,923,322
19— 43: 1,923,579
52: 1,923,836
135: 1,923,598
20— 4: 1,923,195
11: 1,923,832
1,923,833
16: 1,923,787
21: 1,923,783
22: 1,923,983
35: 1,923,701
38: 1,923,951
45: 1,923,606
52.4: 1,923,533
66: 1,923,839
22— 36: 1,923,237
69: 1,923,214
79: 1,923,553
84: 1,923,119
87: 1,923,940
188: 1,923,769
1,924,026
193: 1,924,061
23— 24: 1,923,652
40: 1,923,407
52: 1,923,464
53: 1,924,065
79: 1,923,570
86: 1,923,210
91: 1,923,504
119: 1,923,212
122: 1,923,497
154: 1,923,324
162: 1,923,865
176: 1,923,256
191: 1,923,903
199: 1,923,897
212: 1,923,656
224: 1,923,723
278: 1,923,890
24— 2: 1,923,061
11: 1,923,260
24— 49: 1,923,999
87: 1,923,577
126: 1,923,812
183: 1,923,371
205: 1,923,262
263: 1,923,283
25— 75: 1,923,161
142: 1,923,729
27— 17: 1,924,027
35: 1,923,956
28— 1: 1,923,168
1,923,551
29— 1: 1,923,781
17: 1,923,364
27: 1,923,410
1,923,416
84: 1,923,462
85: 1,923,100
88.2: 1,923,658
148.4: 1,923,790
149.5: 1,923,514
159.02: 1,923,476
170: 1,923,527
30— 12: 1,923,125
1,923,430
1,923,673
32— 4: 1,923,972
33— 25: 1,923,208
46: 1,923,193
75: 1,923,113
204: 1,924,037
236: 1,923,885
34— 19: 1,923,353
31: 1,923,108
48: 1,923,142
36— 2.5: 1,923,365
44: 1,923,169
45: 1,923,830
57: 1,923,988
71: 1,924,051
37— 43: 1,923,444
110: 1,924,054
1,924,055
144: 1,923,412
181: 1,923,288
40— 2.2: 1,923,310
4: 1,923,856
25: 1,923,902
28: 1,923,267
30: 1,923,807
36: 1,923,575
52: 1,923,523
53: 1,923,398
127: 1,923,725
132: 1,923,309
146: 1,924,013
7: 1,923,313
41— 11: 1,923,261
1,923,417
24: 1,923,247
31: 1,923,067
1,923,969
57: 1,923,318
75: 1,923,638
80: 1,923,351
85: 1,923,006
97: 1,923,708
116: 1,923,241
137: 1,923,163
46— 37: 1,923,344
40: 1,923,801
47— 17: 1,923,217
37: 1,923,677
48— 73: 1,923,541
83: 1,923,855
176: 1,923,008
1,924,030
48— 202: 1,923,540
49— 7: 1,923,148
17: 1,923,183
47: 1,923,581
1,923,941
54: 1,923,942
55: 1,923,554
77: 1,923,221
81: R. 18,918
1,923,070
1,923,111
1,923,245
51— 11: 1,923,635
13: 1,923,329
97: 1,923,762
118: 1,923,931
165: 1,923,786
166: 1,923,760
184.3: 1,923,300
198: 1,923,719
237: 1,923,611
53— 8: 1,923,327
13: 1,923,849
21: 1,923,848
53— 1: 1,923,341
5: 1,923,100
55— 10: 1,923,351
65: 1,924,002
104: 1,923,930
106: 1,923,255
56— 25: 1,923,952
278: 1,923,921
364: 1,923,104
1,923,201
1,923,405
378: 1,923,606
58— 105: 1,923,308
59— 25: 1,923,201
60— 53: 1,924,017
62— 1: 1,923,522
5: 1,923,468
8: 1,923,810
19: 1,923,319
24: 1,923,547
65: 1,923,191
91.5: 1,923,472
95: 1,923,171
1,923,809
115: 1,924,007
117: 1,923,451
119.5: R. 18,924
126: 1,923,170
1,923,172
64— 89: 1,923,307
97: 1,923,368
102: 1,923,649
105: 1,923,132
65— 53: 1,923,508
61: 1,924,011
66— 13: 1,923,949
82: 1,923,545
89: 1,923,994
109: 1,923,985
187: 1,923,984
67— 27: 1,923,826
29: 1,923,997
68— 9: 1,923,494
1,923,516
1,923,530
13: 1,923,800
15: 1,923,580
69— 1: 1,923,166
70— 29: 1,923,411
46: 1,923,443
47: 1,924,069
63: 1,923,968
90: 1,923,817
1,923,907
91: 1,923,149
71— 9: 1,924,041
72— 1: 1,923,645
7: 1,923,792
36: 1,923,696
46: 1,923,906
66: 1,924,035
72: 1,924,044
72— 138: 1,923,159
73— 1: 1,923,356
31: 1,923,731
54: 1,923,224
1,923,737
109: 1,923,240
110: 1,923,412
111: 1,923,776
167: 1,924,076
74— 7: 1,923,795
1,923,908
1,923,990
1,923,991
14: 1,923,879
39: 1,923,905
56: R. 18,925
63: 1,923,542
81: 1,924,031
112: 1,923,315
75— 1: 1,923,955
14: 1,923,286
1,924,034
17: 1,923,511
45: 1,923,471
67: 1,923,094
1,923,095
73: 1,923,903
185: 1,923,948
76— 31: 1,923,445
1,923,446
77— 63: 1,923,440
67: 1,923,177
131: 1,923,219
78— 46: 1,923,377
88: 1,923,372
80— 5.1: 1,923,477
13: 1,923,700
60: 1,923,389
401.1: 1,923,483
81— 53: 1,923,122
1,924,023
128: 1,923,629
165: 1,923,964
82— 2: 1,923,493
83— 26: 1,923,816
62: 1,923,986
73: 1,923,151
167: 1,923,308
91: 1,923,977
94: 1,923,383
87— 5: 1,923,828
12: 1,923,608
28: 1,923,238
1,923,490
1,923,491
88— 14: 1,923,277
1,923,304
16.2: 1,923,072
16.6: 1,923,987
18: 1,3,92855
41: 1,923,567
43: 1,923,566
48: 1,924,070
53: 1,924,001
54: 1,923,572
90— 12.5: 1,923,847
13.2: 1,923,164
13.7: 1,923,728
1,924,003
16: 1,923,935
20: 1,923,763
56: 1,923,204
59: 1,923,967
91— 9: 1,923,909
14.5: 1,923,986
30: 1,923,117
46: 1,923,563
51: 1,923,339
54.5: 1,923,114
68: 1,923,622
1,924,047
68.2: 1,923,790
70: 1,923,631
1,923,726
1,923,835
70.1: 1,923,075
92— 9: 1,923,292
20: 1,923,898
92— 24: 1,923,230
32: 1,923,479
49: 1,923,300
54: 1,923,105
58: 1,923,966
61: 1,923,431
93— 2: 1,923,616
1,924,045
36: 1,923,061
49: 1,923,121
76: 1,923,914
451.2: 1,923,320
94— 45: 1,923,632
95— 5.6: 1,923,764
8: 1,923,485
45: 1,923,376
73: 1,923,671
75: 1,923,067
97— 50: 1,923,253
143: 1,923,400
98— 2: 1,923,207
1,923,294
58: 1,923,176
93: 1,923,346
99— 2: 1,923,358
8: 1,923,421
1,923,587
1,924,059
10: 1,923,684
1,923,880
11: 1,923,427
101— 65: 1,923,492
131: 1,923,219
102— 6: 1,923,496
8: 1,923,761
103— 38: 1,923,923
42: 1,923,518
126: 1,923,208
132: 1,923,291
150: 1,923,740
229: 1,923,395
248: 1,923,883
104— 121: 1,923,085
105— 10: 1,923,441
15: 1,923,435
38: 1,924,062
106— 7.5: 1,924,021
18: 1,923,420
22: 1,923,756
34: 1,923,370
40: 1,923,495
73: 1,923,671
107— 29: 1,923,188
48: 1,923,257
108— 7: R. 18,919
26: 1,924,008
1,924,009
76: 1,923,276
111— 52: 1,923,259
85: 1,924,075
112— 12: 1,923,550
35: 1,923,562
39: 1,923,139
60: 1,923,586
152: 1,923,556
235: 1,923,080
113— 34: 1,923,101
49: 1,923,334
114— 17: 1,923,822
20: 1,923,612
66.5: 1,923,958
115— 18: R. 18,921
34: 1,923,995
59: 1,923,667
118— 45: 1,923,980
47: 1,924,066
49: 1,923,350
120— 4: 1,923,648
18: 1,923,300
120— 49: 1,923,63
1,923,634
61: 1,923,109
84: 1,923,153
106: 1,923,734
121— 19: 1,923,706
20: 1,923,305
122— 4: 1,924,043
225: 1,924,077
235: 1,923,975
451.2: 1,923,320
459: 1,923,422
466: 1,923,374
481: 1,923,103
485: 1,923,097
123— 11: 1,923,744
12: 1,923,500
16: 1,923,561
32: 1,923,686
119: 1,923,357
1,923,868
138: 1,923,180
139: 1,923,302
146.5: 1,923,615
149: 1,923,184
190: 1,923,480
191: 1,923,208
126— 9: 1,923,131
202: 1,923,424
214: 1,923,981
345: 1,923,689
127— 60: 1,923,455
128— 57: 1,923,317
194: 1,923,809
200: 1,923,650
214: 1,923,846
239: 1,923,409
268: 1,923,513
129— 8: 1,923,851
16: 1,923,198
1,923,366
16.5: 1,923,123
16.7: 1,923,064
1,923,197
23: 1,923,627
24: 1,923,646
131— 21: 1,923,664
51: 1,923,342
132— 13: 1,923,316
33: 1,923,527
83: 1,923,071
133— 1: 1,923,945
134— 26: 1,923,704
1,923,714
1,923,715
50: 1,923,362
79: 1,923,702
1,923,703
1,923,732
137— 13: 1,923,481
20: 1,923,640
58: 1,923,280
76: 1,923,603
111: 1,924,038
112: 1,923,518
139: 1,923,165
1,923,681
140: 1,923,532
152.5: 1,923,595
153: 1,923,788
156: 1,937,127
164: 1,923,331
139— 100: 1,923,402
125: 1,923,954
208: 1,923,536
140— 105: 1,923,900
112: 1,923,369
145: 1,923,751
141— 1: 1,923,636
9: 1,923,401
144— 309: 1,923,922
146— 1: 1,923,089
19: 1,923,806
28: 1,923,474
1,923,475
1,923,712

1—	88: 1,923,871	175—	30: 1,923,564	188—	218: 1,923,086	210—	45: 1,923,834	244—	19: 1,923,110	265—	1: 1,923,373
	94: 1,923,854		1,923,748		1,923,432		47: 1,923,557		21: 1,923,963		2: 1,923,296
	102: 1,923,852		1,923,943		250: 1,923,203		52: 1,923,135		29: 1,923,290		20: 1,923,297
	1,923,853		183: 1,923,565		261: 1,923,872		55: 1,923,143		31: 1,923,364		1,923,720
	1,923,860		298: 1,923,893		264: 1,924,060		73: 1,923,895	246—	3: 1,923,174		46: 1,923,192
	114: 1,923,348		320: 1,923,863	189—	31: 1,924,033		152: 1,923,138		31: 1,923,490	266—	5: 1,923,145
	122: 1,924,019		335: 1,923,311		31.5: 1,923,858	211—	43: 1,923,906		182: 1,923,231		23: 1,923,778
	146: 1,923,129		361: 1,923,727		46: 1,923,604		50: 1,923,982	247—	1: 1,923,939	267—	9: 1,923,894
	176: 1,923,867		363: 1,923,696		1,923,784	212—	88: 1,923,780		40: 1,923,825		48: 1,923,361
	194: 1,923,722		1,923,749		1,923,791	213—	21: 1,923,433	248—	19: 1,924,074		63: 1,923,926
	202: 1,924,078		376: 1,923,902		90: 1,923,857		1,923,434		20: 1,923,755	268—	126: 1,923,459
2—	6: 1,923,502	176—	16: 1,923,144		91: 1,923,314		167: 1,923,674		38: 1,923,794		132: 1,923,233
	16: 1,923,814		26: 1,924,058	192—	01: 1,923,819		1,923,675	249—	59: 1,923,745	271—	2.6: 1,923,609
	21.3: 1,923,561	177—	7: 1,923,949		3: 1,923,173		219: 1,923,137	250—	2: 1,923,430		86: 1,923,488
	1,923,562		337: 1,923,162		53: 1,923,378		221: 1,923,134		1,923,916	273—	33: 1,923,682
	26: 1,923,375		351: 1,923,290		1,923,379	214—	38: 1,923,785		11: 1,923,920		35: 1,923,152
	30— 1.7: 1,924,006		352: 1,923,088		1,923,380		100: 1,923,913		1,923,934		65: 1,923,236
	29: 1,923,667		1,924,032		1,923,385	215—	38: 1,923,091		1,923,976		1,923,501
	54: 1,924,054		386: 1,923,960		1,923,386	217—	19: 1,923,344		17: 1,923,305		1,923,800
	1,924,055	178—	6: 1,923,520		59: 1,923,582		57: 1,923,063		1,923,345		74: 1,923,802
	1,924,056		1,923,891		68: 1,923,438		126: 1,923,780		27: 1,923,335		94: 1,923,607
51—	37: 1,923,647		23: 1,923,724		76: 1,923,453	219—	6: 1,923,284		27.5: 1,923,406	274—	2: 1,923,558
52—	18: 1,923,661		28: 1,923,273		150: 1,923,568		19: 1,923,461		1,923,521		1,923,559
	29: 1,923,975		44: 1,923,155	194—	1: 1,923,130		1,923,500		1,923,552	280—	33.1: 1,923,255
53—	2: 1,923,752		1,923,252		19: 1,924,000		24: 1,923,862		1,923,696		33.15: 1,923,367
	32: 1,923,620		1,923,354		101: 1,923,535		1,924,040		1,923,844		33.44: 1,923,904
	33: 1,923,272		53: 1,924,050	196—	10: 1,923,289		34: 1,923,083		1,923,845		81: 1,923,397
	54: 1,923,738	179—	2.5: 1,923,718		47: 1,923,150		1,923,874		34: 1,923,108	282—	12: 1,923,829
	65: 1,923,808		7.1: 1,923,668		49: 1,923,271		44: 1,923,584		1,923,699	285—	31: 1,923,220
54—	1: 1,923,710		16: 1,923,352		53: 1,923,576		1,923,889		35: 1,923,576		56: 1,923,546
	2: 1,923,512		18: 1,923,080		54: 1,923,571	220—	24: 1,923,602	251—	31: 1,923,306		90: 1,923,124
	1,923,837		27.53: 1,923,282		58: 1,923,278		40: 1,923,336		78: 1,923,919		115: 1,923,504
	4: 1,924,067		27.54: 1,924,064		1,923,526		1,923,537		93: 1,923,295		122: 1,923,775
	1,924,083		90: 1,923,947	197—	9: 1,923,503		44: 1,923,503		142: 1,923,621		163: 1,924,020
	9: 1,923,062		100.3: 1,923,619		13: 1,923,596		51: 1,923,779	252—	3: 1,923,918	286—	7: 1,923,915
	1,923,699		1,923,746		126: 1,924,048		60: 1,923,742	253—	4: 1,923,857	287—	53: 1,923,691
	1,923,705		1,923,757		130: 1,923,771	221—	21: 1,924,057		39: 1,923,251		90: 1,923,232
	40: 1,923,215		115.5: 1,923,831		162: 1,923,078		47.3: 1,923,436	254—	93: 1,923,418		1,923,414
	46: 1,923,275		1,923,924		177: 1,923,766		60: 1,923,929		131: 1,923,770		1,923,601
	54: 1,923,643		171: 1,923,222	198—	3: 1,923,836		79: 1,923,974	255—	1: 1,923,448		119: 1,923,123
55—	1: 1,923,617		1,923,254		20: 1,923,549		95: 1,923,912		19: 1,923,694	290—	4: 1,923,971
	36.5: 1,923,482		1,923,543		1,923,663	222—	4: 1,923,084		28: 1,923,328		38: 1,923,992
	61: 1,923,690		175.21: 1,923,662		21: 1,923,447	223—	44: 1,923,158		61: 1,923,487		52: 1,923,126
	117: 1,923,517	180—	14.5: 1,923,332		31: 1,923,753	225—	23: 1,923,585		1,923,488	292—	48: 1,923,903
	179: 1,924,022		54: 1,923,225		75: 1,923,548		1,923,589		72: 1,923,486		70: 1,923,933
	180: 1,923,739		70: 1,923,102	199—	47: 1,923,823		40: 1,923,363	257—	43: 1,923,274		155: 1,923,146
56—	24: 1,923,506	181—	0.5: 1,923,107		55: 1,923,218	226—	5: 1,923,637		125: 1,923,404		164: 1,923,679
	26: 1,923,698		27: 1,923,066		95: 1,923,628		12: 1,923,950		137: 1,923,355		197: 1,923,873
	38: 1,923,804		31: 1,923,870	200—	16: 1,923,450		17: 1,924,053		1,923,676		223: 1,923,688
	44: 1,923,175		1,924,063		24: 1,923,708		127: 1,923,574		1,923,765	296—	1: 1,923,349
57—	6: 1,923,750		32: 1,923,965		48: 1,923,312	229—	4.5: 1,923,426		241: 1,923,484		44: 1,923,301
58—	4: 1,923,330	183—	2.7: 1,923,598		1,923,805		5.5: 1,923,716	259—	72: 1,923,678		44.5: 1,923,665
	28: 1,923,651		1,923,599		59: 1,923,343		16: 1,923,928		97: 1,924,080		45: 1,923,077
	42.4: 1,923,882		51: 1,923,299		1,923,578		23: 1,923,525	260—	2: 1,923,321		63: 1,923,466
	45.5: 1,923,614		84: 1,923,515		87: 1,923,350		1,923,881		4: 1,924,052		90: 1,924,030
	104: 1,924,042		90: 1,923,498		1,923,613		29: R. 18,922		12: 1,923,216		94: 1,923,342
	116: 1,923,393	184—	3: 1,923,440		88: 1,923,092		36: 1,923,065		17: 1,923,392	299—	73: 1,923,588
	1,923,394		6: 1,923,357		113: 1,923,509		45: 1,923,774		25: 1,924,073		83: 1,923,266
59—	4: 1,923,659		1,923,717		123: 1,924,014	230—	52: 1,923,333		31: 1,923,226		1,923,758
61—	1: 1,923,978		1,923,908		125: 1,923,156		117: 1,923,079		33: 1,923,230		89: 1,923,654
64—	48: 1,923,937		7: 1,923,364		126: 1,923,323		203: 1,923,519		46: 1,923,227		90: 1,923,979
	59: 1,923,293		1,923,408		138: R. 18,923		207: 1,923,600		60: 1,923,618		97: 1,923,279
	60: 1,923,361		1,923,470		1,923,680	233—	14: 1,923,454		72: 1,923,944		111: 1,923,425
	75: 1,923,334		11: 1,923,597		150: 1,923,695		34: 1,923,258		86: 1,923,202		144: 1,924,025
	89: 1,923,403		28: 1,924,068		172: 1,923,428	234—	5.3: 1,924,071		98: 1,923,507	300—	21: 1,923,884
66—	1: 1,923,098		55: 1,923,797	202—	13: 1,923,213		36: 1,923,793		100: 1,923,641	301—	9: 1,923,388
67—	37: 1,923,223		90: 1,923,767		46: 1,923,672	235—	58: 1,923,685		103: 1,923,938		12: 1,923,747
68—	11: 1,923,160		103: 1,923,857		115: 1,923,209		61.5: 1,923,082		109: 1,923,730		1,923,811
	26: 1,923,326	187—	16: 1,923,603	204—	1: 1,923,539		92: 1,923,759		110: 1,923,248		41: 1,923,196
	1,923,660		90: 1,923,683		7: 1,923,642		94: 1,923,194		116: 1,923,630	302—	60: 1,923,460
70—	159: 1,923,325	188—	5: 1,923,190	206—	31: 1,923,140	236—	68: 1,923,996		125: 1,923,489	303—	23: 1,923,157
	163: 1,924,061		30: 1,923,842		1: 1,923,457		93: 1,923,128		127: 1,923,178		40: 1,923,141
71—	98: 1,924,039		32: 1,923,382		1,5: 1,923,560	240—	3: 1,923,741		130: 1,923,708	304—	15: 1,923,465
	268: 1,923,347		78: 1,923,234		19.5: 1,923,529		6.4: 1,924,024		130.5: 1,923,697	305—	10: 1,923,009
	313: 1,923,709		1,923,437		40: 1,923,338		6.41: 1,923,531		156: 1,923,610	306—	31: 1,923,467
	324: 1,923,864		91: 1,923,115		46: 1,923,089		10.64: 1,923,861		161: 1,923,419	308—	3: 1,923,820
72—	126: 1,924,062		130: 1,923,235		1,923,452		41.1: 1,923,653		170: 1,923,583		50: 1,923,782
	233: 1,923,694		152: 1,923,186		50: 1,923,456		41.25: 1,923,181		171: 1,923,560		72: 1,924,072
	274: 1,923,754		1,923,186		82: 1,924,004		59: 1,923,962	261—	24: 1,923,429		107: 1,923,869
73—	51: 1,923,859		1,923,187	209—	37: 1,923,977		102: 1,923,970		1,923,473		180: 1,923,399
	263: 1,923,073		1,923,463		89: 1,923,469		108: 1,923,555		50: 1,923,537		1,923,777
	264: 1,923,147		1,924,046		1,923,878	242—	65: 1,923,670		116: 1,923,711		190: 1,923,211
	318: 1,924,056		194: 1,923,182		102: 1,923,713		119: 1,923,510	262—	3: 1,923,906		238: 1,923,892
	322: 1,924,036		204: 1,923,538		150: 1,923,200		123: 1,923,267	263—	6: 1,923,772		45: 1,923,573
	332: 1,923,901		210: 1,923,120		326: 1,923,229	244—	15: 1,923,973		1,923,773	309—	55: 1,923,228
	335: 1,923,270		1,923,841		467: 1,923,917		16: 1,923,249		1,923,815	312—	67: 1,923,396
					469: 1,923,951		1,924,049		1,923,886		

U. S. GOVERNMENT PRINTING OFFICE: 1933

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

A-Dal Laboratories. (See Cädy, Guy B.)

A/S Norsk Medicinal Union, Bergen, Norway. Cod liver oil. Serial No. 335,181; Aug. 29. Class 6.

Acidophilus Ice Cream Corporation, New York, N. Y. Ice cream and other frozen confections. Serial Nos. 339,742–3; Aug. 29. Class 46.

All Metal Card Table Company, Chicago, Ill. Table and chair sets. Serial No. 339,546; Aug. 29. Class 32.

Ama-Gon Laboratories. (See Northrup, Blanche M.)

American Laboratories. (See Enge, Axel.)

American Safety Razor Corporation, Brooklyn, N. Y. Razors and razor blades. Serial No. 339,514; Aug. 29. Class 28.

American Teletector Corporation. (See Eastern Engineering Company.)

American Tissue Mills, Holyoke, Mass. Papers, toilet paper, paper napkins, etc. Serial No. 339,547; Aug. 29. Class 37.

Associated Pharmacists, Inc., Baltimore, Md. Medicinal preparation. Serial No. 339,141; Aug. 29. Class 6.

Associated Pharmacists, Inc., Baltimore, Md. Internal preparation for poison-ivy, poison oak, etc. Serial No. 339,142; Aug. 29. Class 6.

Ax-Grinder Publishing Co., Chicago, Ill. Publication. Serial No. 339,853; Aug. 29. Class 38.

Babson Institute, Boston, Mass. Periodicals, catalogues, bulletins, etc. Serial No. 339,769; Aug. 29. Class 38.

Baron Sales Company, Cedar Rapids, Iowa. Vending machines. Serial No. 334,904; Aug. 29. Class 23.

Berkshire Knitting Mills, Reading, Pa. Hosiery. Serial No. 339,097; Aug. 29. Class 39.

Bierbrauerei Wilhelm Remmer G. m. b. H., Bremen, Germany. Beer. Serial Nos. 339,515–16; Aug. 29. Class 48.

Binney & Smith Co., New York, N. Y. Pressed crayons. Serial No. 340,079; Aug. 29. Class 37.

Binney & Smith Co., New York, N. Y. Wax crayons. Serial No. 340,080; Aug. 29. Class 37.

Binney & Smith Co., New York, N. Y. Dustless crayons. Serial No. 340,081; Aug. 29. Class 37.

Binney & Smith Co., New York, N. Y. Tempera colors. Serial No. 340,082; Aug. 29. Class 16.

Bohemian Distributing Corporation, New York, N. Y. Lager beer. Serial No. 339,706; Aug. 29. Class 48.

Borden's Milk Products Co. Inc., New York, N. Y. Malted milk product. Serial No. 338,815; Aug. 29. Class 46.

Brauerei J. G. Reif A.-G., Nuremberg, Germany. Beer. Serial No. 340,031; Aug. 29. Class 48.

British Medical Laboratories. (See Rogers, William J.)

Brown, B. F., & Co., Inc., Boston, Mass. Cleaner and polish for shoes. Serial No. 339,808; Aug. 29. Class 4.

Buddy "L" Mfg. Co., East Moline, Ill. Electrically controlled and operated toys. Serial No. 332,224; Aug. 29. Class 22.

Cady, Guy B., doing business as A-Dal Laboratories, Los Angeles, Calif. Anti-acid, anti-toxic, tonic-eliminant as an aid for digestion, etc. Serial No. 339,060; Aug. 29. Class 6.

Cahn, Belt & Co., Baltimore, Md. Rye whiskey. Serial No. 339,667; Aug. 29. Class 49.

Carew Manufacturing Company, South Hadley Falls, Mass. Paper. Serial No. 338,684; Aug. 29. Class 37.

Carpenter, Thach, Wrecker Mfg. Co., Los Angeles, Calif. Caster wheel trailers. Serial No. 338,966; Aug. 29. Class 19.

Cataract Brewing Co., Inc. of Rochester, N. Y., Rochester, N. Y. Beer and malt. Serial No. 339,888; Aug. 29. Class 48.

Cellulose Bottle Syndicate, Philadelphia, Pa. Glassine paper. Serial No. 338,897; Aug. 29. Class 37.

Chek-Chart Publishing Company, Chicago, Ill. Periodical. Serial No. 335,608; Aug. 29. Class 38.

Chrysler Corporation, Highland Park, Mich. Automobiles and their structural parts. Serial No. 334,139; Aug. 29. Class 19.

Cia. Comercial "Herdes", S. A., Mexico, Mexico. Shaving creams or soaps. Serial No. 339,599; Aug. 29. Class 4.

Continental Paper and Bag Corporation, New York, N. Y. Tissue paper. Serial No. 332,614; Aug. 29. Class 37.

Corrective Products Company, The, Los Angeles, Calif. Lactic acid preparation. Serial No. 340,033; Aug. 29. Class 6.

Dainty Mfg. Co. Inc., New York, N. Y. Suits and jackets. Serial No. 339,594; Aug. 29. Class 39.

Dietrich, Mary, doing business as Laural Drug Company, New Rochelle, N. Y. Liquid sedative. Serial No. 339,223; Aug. 29. Class 6.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Cyanid salts. Serial No. 339,933; Aug. 29. Class 6.

Eastern Engineering Company, assignor, by mesne assignments, to American Teletector Corporation, New Haven, Conn. Electrical capacity-controlled equipment, and parts thereof. Serial No. 333,927; Aug. 29. Class 21.

Enge, Axel, doing business as American Laboratories, Atlanta, Ga. General tonic. Serial No. 337,578; Aug. 29. Class 6.

Excelsior Stationery Company. (See Kasman, Abraham.)

Federal Cartridge Corp., Minneapolis, Minn. Shotgun shells. Serial No. 323,040; Aug. 29. Class 9.

Felco Co., The. (See Gurge, Cyril B.)

Fox River Paper Company, Appleton, Wis. Bond paper. Serial No. 339,963; Aug. 29. Class 37.

Frankfort Distillery, Inc., The, Louisville, Ky. Whiskey. Serial No. 339,820; Aug. 29. Class 49.

Fredericksburk Brewing Co., The. (See Wielands Incorporated.)

Garcia, Agustin R., Habana, Cuba. Perfumery articles, and perfumes. Serial No. 1270 (Int. Series); Aug. 29. Class 6.

Gardner Laboratories, Inc., Chicago, Ill. Urinary antiseptic. Serial No. 339,225; Aug. 29. Class 6.

Gascript Company of America, Inc., Los Angeles, Calif. Profit sharing coupons. Serial No. 339,226; Aug. 29. Class 38.

General Chemical Company, New York, N. Y. Insecticides and fungicides. Serial No. 339,185; Aug. 29. Class 6.

Goody-Goody Manufacturing Company. (See Grigsby, Harry E.)

Great Atlantic & Pacific Tea Company, The, New York, N. Y. Ice cream. Serial No. 337,245; Aug. 29. Class 46.

Grigsby, Harry E., doing business as Goody-Goody Manufacturing Company, Oklahoma City, Okla. Sandwiches, chili con carne, doughnuts, etc. Serial No. 325,910; Aug. 29. Class 46.

Gurge, Cyril B., doing business as The Felco Co., New York, N. Y. Laxative compound. Serial No. 339,030; Aug. 29. Class 6.

Hocking Valley Manufacturing Company, Lancaster, Ohio. Rotary hammer mills. Serial No. 339,455; Aug. 29. Class 23.

Hoffmann-La Roche, Inc., Nutley, N. J. Medicinal preparation. Serial No. 339,189; Aug. 29. Class 6.

Huvck, F. C., & Sons, Rensselaer and Albany, N. Y. Blankets. Serial Nos. 336,765–6; Aug. 29. Class 42.

Huvck, F. C., & Sons, Rensselaer and Albany, N. Y. Blankets. Serial Nos. 336,768–71; Aug. 29. Class 42.

Huvck, F. C., & Sons, Rensselaer and Albany, N. Y. Blankets. Serial No. 337,470; Aug. 29. Class 42.

International Brewing Corporation, New York, N. Y. Beer. Serial No. 339,458; Aug. 29. Class 48.

Invincible Shock Absorber Corporation, Reading, Pa. Shock absorbers for vehicles. Serial No. 339,190; Aug. 29. Class 19.

Jackel et Cie Limited (of Paris), Glasgow, Scotland. Toilet preparations for the hair. Serial No. 335,420; Aug. 29. Class 6.

Jelenko-Lewis, Inc., New York, N. Y. Lounging robes. Serial No. 339,562; Aug. 29. Class 39.

Juillard Cockcroft Corporation, doing business as Juillard Cockcroft Company, Watsonville, Calif. Canned fruits, vegetables, jellies, etc. Serial No. 297,437; Aug. 29. Class 46.

Kabushikikaisha Honkano Shoten, Mikage, Mikage-Machi, Muko-Gun, Hyogo-Ken, Japan. Malt beverages. Serial No. 340,123; Aug. 29. Class 48.

Kaiserbrauerei Beck & Co., Kommandit-Gesellschaft auf Aktien, Bremen, Germany. Beer. Serial Nos. 339,529–30; Aug. 29. Class 48.

Kasman, Abraham, doing business as Excelsior Stationery Company, New York, N. Y. Bond paper. Serial No. 340,124; Aug. 29. Class 37.

Kennel Food Supply Co., The, Fairfield, Conn. Dog food. Serial No. 338,781; Aug. 29. Class 46.

Kress, S. H., & Co., New York, N. Y. Towels, washcloths, carriage covers, etc. Serial No. 338,251; Aug. 29. Class 42.

Kunstlich, Cecil A., doing business as New Yorker Beverage Company, New York, N. Y. Maltless beverages, and syrups and extracts for making the same. Serial No. 339,110; Aug. 29. Class 45.

Kuppenheimer, B., & Co., Inc., Chicago, Ill. Coats, vests, trousers, and overcoats. Serial No. 339,941; Aug. 29. Class 39.

Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y. Toilet soap. Serial No. 339,942; Aug. 29. Class 4.

Laural Drug Company. (See Dietrich, Mary.)

Lehn & Fink, Inc., Bloomfield, N. J. Antiseptic and disinfectant. Serial No. 339,974; Aug. 29. Class 6.

Levin Door & Panel Co. Inc., New York, N. Y. Fire resistant wood doors. Serial No. 339,337; Aug. 29. Class 12.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Lopez-Cepero, Gabriel, Casalla de la Sierra, Spain. Anisettes, liqueurs, cognacs, brandies. Serial No. 339,111; Aug. 29. Class 49.

Malden Form Brassière Co. Inc., New York, N. Y. Women's underwear. Serial No. 339,403; Aug. 29. Class 39.

Manny-Rielly Co., New York, N. Y. Ladies' underwear. Serial No. 339,871; Aug. 29. Class 39.

McCauley, John M., Brooklyn, N. Y. Potatoes. Serial No. 338,660; Aug. 29. Class 46.

McLaughlin, Cecil E., Spokane, Wash. Potato chips. Serial No. 339,834; Aug. 29. Class 46.

Melbright Oil Burner Company, Hartford, Conn. Oil burners, oil burning steam generators, and water heaters. Serial No. 338,633; Aug. 29. Class 34.

Menasha Products Company, The, Menasha, Wis. Cartons. Serial No. 339,830; Aug. 29. Class 2.

Merck & Co., Inc., Rahway, N. J. Preparation for making a food beverage. Serial No. 339,157; Aug. 29. Class 46.

Moore, George L., Los Angeles, Calif. Beer. Serial No. 338,985; Aug. 29. Class 48.

Mosby's A to Z Company, Cincinnati, Ohio. Carbonated antiseptic. Serial No. 339,039; Aug. 29. Class 6.

Myers Manufacturing Company, Camden, N. J. Toy telephones. Serial No. 339,280; Aug. 29. Class 22.

Naamlooze Vennootschap Maatschappij tot Voortzetting der Amsterdamsche Likeurstokerij "'t Lootsje" der Erven Lucas Bols, Amsterdam, Netherlands. Gin. Serial No. 339,511; Aug. 29. Class 49.

Nahon, James M., Madrid, Spain. Cabinet tables or swivelling cupboards. Serial No. 336,538; Aug. 29. Class 32.

National Sugar Refining Company of New Jersey, The, Jersey City, N. J. Invert sugar. Serial No. 337,793; Aug. 29. Class 46.

Neumann, R., & Company, Hoboken, N. J. Leather. Serial No. 338,992; Aug. 29. Class 1.

New Yorker Beverage Company. (See Kunstlich, Cecil A.)

Northrup, Blanche M., doing business as Ama-Gon Laboratories, Los Angeles, Calif. Preparation for relief from asthma, etc. Serial No. 328,137; Aug. 29. Class 6.

Norton Pike Company, Pike, N. H. Sharpening apparatus. Serial No. 338,256; Aug. 29. Class 23.

Nugloss Products Company. (See Weinberg, Samuel R.)

Nutritions, Inc., Beverly Hills, Calif. Concentrates of vegetables. Serial No. 339,237; Aug. 29. Class 6.

Onondaga Silk Company, Inc., Syracuse and New York, N. Y. Silk fabrics. Serial Nos. 339,198–9; Aug. 29. Class 42.

P. & G. Laboratories. (See Polin-Gold Drug Co.)

Penn Tobacco Company, Wilkes-Barre, Pa. Tobacco and cigarettes. Serial No. 339,876; Aug. 29. Class 17.

Polin-Gold Drug Co., doing business as P. & G. Laboratories, Chicago, Ill. Polish. Serial No. 331,999; Aug. 29. Class 16.

Pulger, Bonfiet & Co., Cologne-on-the-Rhine, Germany. Saws. Serial No. 339,474; Aug. 29. Class 23.

Reliance Manufacturing Company, Chicago, Ill. Trousers. Serial No. 339,476; Aug. 29. Class 39.

Reliance Manufacturing Company, Chicago, Ill. Men's underwear. Serial No. 339,836; Aug. 29. Class 39.

Republic Steel Corporation, Youngstown, Ohio. Bolts, nuts, threaded rods, etc. Serial No. 334,119; Aug. 29. Class 13.

Richmond, Virginia D., Pleasanton, Wheeling, W. Va. Toasted sandwiches. Serial No. 339,082; Aug. 29. Class 46.

Rogers, William J., doing business as British Medical Laboratories, Sydney, New South Wales, Australia. Medicinal preparation. Serial No. 338,849; Aug. 29. Class 6.

Roseman, Samuel V., doing business as Samuel V. Roseman Co., New York, N. Y. Sewing threads. Serial No. 339,573; Aug. 29. Class 43.

St. Pauli Brauerei C. L. Wilh. Brandt, Bremen, Germany. Beer. Serial Nos. 339,541–2; Aug. 29. Class 48.

Schoeneman, J., Incorporated, Baltimore, Md. Coats, vests, trousers, etc. Serial No. 338,622; Aug. 29. Class 39.

Schulte-Tenderich, Mrs. Gertrude, Denver, Colo. Flesh reducing compound. Serial No. 335,100; Aug. 29. Class 6.

Sherwin-Williams Company, The, Cleveland, Ohio. Insecticides and fungicides. Serial No. 339,796; Aug. 29. Class 6.

Southwestern Drug Corporation, Waco, Tex. Rubbing alcohol compound. Serial No. 338,911; Aug. 29. Class 6.

Standard Brands Incorporated, New York, N. Y. Coffee. Serial No. 303,394; Aug. 29. Class 46.

Standard Brands Incorporated, New York, N. Y. Coffee. Serial No. 303,402; Aug. 29. Class 46.

Standard Brands Incorporated, New York, N. Y. Irradiated dry yeast. Serial No. 339,868; Aug. 29. Class 46.

Standard Brands Incorporated, New York, N. Y. Mustard seed, whole cloves, mayonnaise, etc. Serial No. 339,506; Aug. 29. Class 46.

Standard Oil Company of New Jersey, Wilmington, Del. Liquid gloss, floor dressing, and floor wax. Serial No. 339,645; Aug. 29. Class 16.

Standard Oil Company of New Jersey, Wilmington, Del. Lubricating oils. Serial Nos. 339,681–8; Aug. 29. Class 15.

Steiner-Liberty Corporation, Baltimore, Md. Pajamas, night robes, shirts, etc. Serial No. 339,507; Aug. 29. Class 39.

Stores, John Henry, Inc., West Orange, N. J. Textile carpets and rugs. Serial No. 337,519; Aug. 29. Class 42.

Stores, John Henry, Inc., West Orange, N. J. Textile carpets and rugs. Serial No. 337,521; Aug. 29. Class 42.

Superior Feed Mills, Oklahoma City, Okla. Feeds for poultry. Serial No. 338,670; Aug. 29. Class 46.

Tapp, Dewilde & Wallace, Inc., Chicago, Ill. Furniture. Serial No. 336,244; Aug. 29. Class 32.

Taunton Knitting Co., Taunton, Mass. Knitted union suits, vests, and tights. Serial No. 338,471; Aug. 29. Class 39.

Televoice Corporation of America, New York, N. Y. Detectaphones, burglar and fire alarms, etc. Serial No. 338,119; Aug. 29. Class 21.

Tivoli-Union Company, The, Denver, Colo. Beer. Serial No. 338,810; Aug. 29. Class 48.

Treadway, L. G., Service Corporation, New York, N. Y. Letterheads, envelopes, etc. Serial No. 320,172; Aug. 29. Class 37.

Underwood Elliott Fisher Company, New York, N. Y. Typewriting machines and parts. Serial No. 327,810; Aug. 29. Class 23.

Viking Pump Company, Cedar Falls, Iowa. Rotary pumps and motors. Serial No. 338,914; Aug. 29. Class 23.

Vitamineral Products Company, Peoria, Ill. Compound containing various minerals to be mixed with the feeding rations of animals. Serial No. 339,214; Aug. 29. Class 6.

Wasco Engineering Corporation, New York, N. Y. Boiler protective and rust eradicator. Serial No. 338,674; Aug. 29. Class 6.

Weinberg, Samuel R., doink business as Nugloss Products Company, Brooklyn, N. Y. Liquid nail polish and nail polish remover. Serial No. 325,447; Aug. 29. Class 6.

Western Oil and Fuel Company, The, Minneapolis, Minn. Vehicle rubber tires and tubes. Serial No. 338,236; Aug. 29. Class 35.

White, New Haven, Conn. Men's hats. Serial No. 339,873; Aug. 29. Class 39.

White, H. N., Co., The, Cleveland, Ohio. Wind musical instruments. Serial No. 338,440; Aug. 29. Class 36.

Wielands Incorporated, doing business as The Fredericksburg Brewing Co., San Francisco, Calif. Malt cereal beverages. Serial No. 339,419; Aug. 29. Class 48.

Wilson, George S., Edinburgh, Scotland. Combination fork and spoon. Serial No. 337,405; Aug. 29. Class 23.

Worcester Salt Co., New York, N. Y. Salt. Serial No. 339,544; Aug. 29. Class 46.

Zapon Company, The, Wilmington, Del. Pyroxylin or otherwise coated fabrics. Serial No. 338,444; Aug. 29. Class 50.

LIST OF REGISTRANTS OF TRADE-MARKS

American Earphone Co. Inc., New York, N. Y. Non-electrical appliance used as an aid to hearing. 305,890 Aug. 29; Serial No. 336,706; published June 20, 1933. Class 44.

American Lava Corporation, Chattanooga, Tenn. Fired material. 305,928; Aug. 29; Serial No. 336,205; published June 20, 1933. Class 21.

Ames Shovel & Tool Company, Jersey City, N. J., and Boston, Mass., assignor to Ames Baldwin Wyoming Co., Parkersburg, W. Va. Shovels, spades, and scoops. 92,616–17; renewed July 22, 1933.

Amoskeag Manufacturing Company, assignor, by mesne assignments, to Amoskeag Manufacturing Company, Manchester, N. H., trustees. Cotton piece goods. 94,509; renewed Dec. 9, 1933.

Amoskeag Manufacturing Company, assignor, by mesne assignments, to Amoskeag Manufacturing Company, Manchester, N. H., trustees. Cotton piece goods. 94,851–4; renewed Jan. 13, 1934.

Andrews, Wallace H., Chicago, Ill. Medicinal powder. 305,927; Aug. 29; Serial No. 336,206; published June 20, 1933. Class 6.

Anklam, William E., Chicago, Ill. Acetyl salicylic acid. 305,908; Aug. 29; Serial No. 335,842; published June 6, 1933. Class 6.

Armstrong Cork Company, Pittsburgh, to Armstrong Cork Company, Lancaster, Pa. Linoleum. 94,859; renewed Jan. 13, 1934.

Astrup Company, The, Cleveland, Ohio. Lateral awning arms. 305,957; Aug. 29; Serial No. 337,770; published June 20, 1933. Class 13.

Atlantic Refining Company, The, Philadelphia, Pa. Lubricating oils. 305,851; Aug. 29; Serial No. 337,062; published June 6, 1933. Class 15.

Atlantic Refining Company, The, Philadelphia, Pa. Lubricating oils. 305,861; Aug. 29; Serial No. 337,061; published June 6, 1933. Class 15.

Ault & Wiborg Company, The, New York, N. Y. Adhesives. 305,994; Aug. 29; Serial No. 335,844; published June 13, 1933. Class 5.

Bailly, P., & Cie, to P. Bailly & Cie, Paris, France, successor. Shoulder-braces and suspenders. 92,939–40; renewed Aug. 12, 1933.

Baum's Castorine Company, Inc., Rome, N. Y. Lubricating oils and greases. 305,878; Aug. 29; Serial No. 329,849; published June 20, 1933. Class 15.

Bay State Fishing Company, Boston, Mass. Haddock, cod, etc. 305,931; Aug. 29; Serial No. 336,251; published June 20, 1933. Class 46.

Beich, Paul F., Company, Bloomington, Ill. Candy. 305,991; Aug. 29; Serial No. 335,846; published June 6, 1933. Class 46.

Belotti, A. Louis, doing business as Calneva Products Company, San Francisco, Calif. Foods for foxes and all carnivorous animals. 305,996; Aug. 29; Serial No. 334,239; published June 6, 1933. Class 46.

Berg, Herman E., Marthasville, Mo. Preparation for diarrhea in poultry. 305,872; Aug. 29; Serial No. 337,065; published June 20, 1933. Class 6.

Berliner, Max H., doing business as Traxam Products Co., Seattle, Wash. Face conditioner. 305,895; Aug. 29; Serial No. 336,814; published June 13, 1933. Class 4.

Bernson, Jack, doing business as Main Supply Company and as Golden Creme Products Co., Los Angeles, Calif. Malt beverages. 305,930; Aug. 29; Serial No. 336,253; published June 20, 1933. Class 48.

Berry Solder Co., Inc., New York, N. Y. Solder. 306,012; Aug. 29. Class 14.

Beyer, William, Chicago, Ill. Combination ultra-violet and electric heating device. 305,884; Aug. 29; Serial No. 331,174; published June 20, 1933. Class 44.

Bi-Nitro Syndicate, Hollywood, Calif. Antiseptic preparation. 305,875; Aug. 29; Serial No. 337,210; published June 6, 1933. Class 6.

Bio Medico, Inc., New York, N. Y. Liquid preparation. 305,989; Aug. 29; Serial No. 336,491; published June 6, 1933. Class 6.

Bird, Alfred, and Sons, Limited, assignor to Alfred Bird & Sons, Limited, Birmingham, England. Baking-powder 92,815; renewed July 1, 1933.

Bird, Alfred, and Sons, Limited, assignor to Alfred Bird & Sons, Limited, Birmingham, England. Custard-powder, egg-powder, and blanc-mange powder. 93,960; renewed Oct. 28, 1933.

Bohemian Distributing Co. Ltd., Los Angeles, Calif. Malt beverages. 305,999; Aug. 29; Serial No. 333,724; published June 20, 1933. Class 48.

Böhme, H. Th., Aktiengesellschaft, Chemnitz, Germany. Soap preparations. 305,902; Aug. 29; Serial No. 336,670; published June 13, 1933. Class 4.

Bon Arber Chemical Co., Paterson, N. J. Worm-eradicator, weed and insect destroyers, and disinfectants. 94,979; renewed Jan. 20, 1934.

Boston Confectionery Company, Cambridge, Mass. Candy. 305,992; Aug. 29; Serial No. 335,848; published June 6, 1933. Class 46.

Bowling Green Refining Company, Bowling Green, Ky. Gasoline. 305,954; Aug. 29; Serial No. 325,251; published June 20, 1933. Class 15.

Brenwitt Coal & Coke Co., The, Toledo, Ohio. Coal. 305,968; Aug. 29; Serial No. 337,382; published June 20, 1933. Class 1.

Brook-Maid Food Co., Inc., Brooklyn, N. Y. Canned and bottled fruits, vegetables, etc. 305,889; Aug. 29; Serial No. 331,817; published Feb. 21, 1933. Class 46.

Brooks, W. H., San Francisco, Calif. Fruit, layer, and coffee cakes. 305,924; Aug. 29; Serial No. 336,152; published June 6, 1933. Class 46.

Buckey, C. W., Baking Company, Inc., New Britain, Conn. Bread. 306,004; Aug. 29; Serial No. 333,668; published June 20, 1933. Class 46.

Burton Playthings, Inc., New York, N. Y. Children's coloring and drawing outfits. 305,971; Aug. 29; Serial No. 337,459; published June 20, 1933. Class 22.

Calneva Products Company. (See Belotti, A. Louis.)

Campbell, James M., Brooklyn, N. Y. Combined cleansing powder and insecticides. 305,919; Aug. 29; Serial No. 336,638; published June 6, 1933. Class 6.

Capital City Products Company, The, Columbus, Ohio. Vegetable crystallining oil. 306,016; Aug. 29. Class 46.

Cap's Brain Teaser. (See Hosinski, Leo J.)

Carborundum Company, The, Niagara Falls, N. Y. Abrasive cloth. 305,864; Aug. 29; Serial No. 333,097; published June 13, 1933. Class 4.

Carling Breweries Limited, London, Ontario, Canada. Ales, beers, lagers, etc. 305,860; Aug. 29; Serial No. 333,424; published June 20, 1933. Class 48.

Carling Breweries Limited, London, Ontario, Canada. Ale. 306,001; Aug. 29; Serial No. 334,137; published June 20, 1933. Class 48.

Carrier-York Corporation, Philadelphia, Pa. Unit for conditioning air. 305,887; Aug. 29; Serial No. 330,780; published June 20, 1933. Class 34.

Chemical Foundation, Incorporated, The. (See Neirath, Leopold F., assignor.)

Chemical Foundation, Incorporated, The. (See Saccharin-Fabrik, Aktiengesellschaft, vorm. Fahlberg, List & Co., assignor.)

Chemical Foundation, Incorporated, The. (See Schindler, Carl, assignor.)

Chemical Foundation, Incorporated, The. (See Schmidt, Johann, assignor.)

Chemical Foundation, Incorporated, The. (See Zeiss, Carl, assignor.)

Cointreau Pere et Fils, to Societe a Responsabilite Limitee Cointreau, Angers, France, successor. Liqueur. 94,714; renewed Dec. 30, 1933.

Colgate-Palmolive-Peet Company, Chicago, Ill. Dental cream. 305,874; Aug. 29; Serial No. 337,104; published June 6, 1933. Class 6.

Commercial Shearing & Stamping Company, The, Youngstown, Ohio. Grave vaults. 305,921; Aug. 29; Serial No. 336,034; published June 20, 1933. Class 2.

Consolidated Distilleries, Limited, Montreal, Quebec, Canada. Whisky, etc. 305,882; Aug. 29; Serial No. 337,023; published June 20, 1933. Class 49.

Continental Paper and Bag Corporation, New York, N. Y. Paper bags. 305,904; Aug. 29; Serial No. 336,817; published June 20, 1933. Class 2.

Crystal Chemical Corporation, Detroit, Mich. Storage batteries. 305,905; Aug. 29; Serial No. 336,900; published June 20, 1933 Class 21.

Daggett & Ramsdell, New York, N. Y. Shaving cream. 305,963; Aug. 29; Serial No. 337,287; published June 6, 1933. Class 4.

Daimler-Motoren-Gesellschaft Cannstadt, Germany, by change of name to Daimler-Benz Aktiengesellschaft, Stuttgart, Germany. Vehicles and machines therefor. 41,127; renewed Sept. 15, 1933.

Daimler-Motoren-Gesellschaft, by change of name to Daimler-Benz Aktiengesellschaft, Untertürkheim, near Stuttgart, Germany. Flying-machines and parts thereof. 94,066; renewed Nov. 4, 1933.

Dalton Foundries, Inc., The, Warsaw, Ind. Malleable iron castings. 305,959; Aug. 29; Serial No. 337,602; published June 20, 1933. Class 14.

Dalton Foundries, Inc., The, Warsaw, Ind. Grey iron castings. 305,979; Aug. 29; Serial No. 337,601; published June 20, 1933. Class 14.

De Puddicombe, Jack, assignor to Morse Holding Corporation, New York, N. Y. High tension current jumper. 305,879; Aug. 29; Serial No. 332,293; published June 13, 1933. Class 21.

Dermalab, Inc., Winnetka, Ill. Ointment. 305,976; Aug. 29; Serial No. 337,460; published June 20, 1933. Class 6.

Doolin, Daisy D., doing business as Frito Company, San Antonio, Tex. Cake. 306,005; Aug. 29; Serial No. 335,180; published June 20, 1933. Class 46.

Earl Fruit Company, San Francisco, Calif. Grapes. 306,015; Aug. 29. Class 46.

East Tennessee Packing Company, Knoxville, Tenn. Hams and sliced bacon and bacon nuggets. 305,982; Aug. 29; Serial No. 335,811; published June 13, 1933. Class 46.

Economy Oil Sales Corporation, Freehold, N. J. Oil, gasoline, and kerosene. 306,014; Aug. 29. Class 15.

Edros Natural Products, Inc., New York, N. Y. Laxative. 305,975; Aug. 29; Serial No. 337,462; published June 20, 1933. Class 6.

Ely & Walker Dry Goods Co. (See Ferguson McKinney Dry Goods Co.)

Federal Mill, Inc., Lockport, N. Y. Wheat flour, live stock feeds, and cereal products. 305,950; Aug. 29; Serial No. 327,683; published Feb. 7, 1933. Class 46.

Fel-So Corporation, The, New York, N. Y. Preparation for cleaning, scouring, and polishing. 305,881; Aug. 29; Serial No. 329,577; published June 20, 1933. Class 4.

Ferguson McKinney Dry Goods Co., The, to Ely & Walker Dry Goods Co., St. Louis, Mo., successor. Bleached muslin. 90,425; renewed Feb. 25, 1933.

Ferguson, Wm. C., Stockton, Calif. Fresh vegetables. 305,865; Aug. 29; Serial No. 337,028; published June 6, 1933. Class 46.

Florence Stove Company, Gardner, Mass. Controller handles for stoves. 305,948; Aug. 29; Serial No. 337,779; published June 20, 1933. Class 13.

Frankel, Samuel, New York, N. Y. Alloy. 305,938; Aug. 29; Serial No. 336,501; published June 20, 1933. Class 14.

Freedom Oil Works Company, The, Freedom, Pa. Lubricating oils. 305,987; Aug. 29; Serial No. 335,670; published June 20, 1933. Class 15.

Frenco Laboratories, Limited, Long Beach, Calif. Digestive tablets. 305,923; Aug. 29; Serial No. 336,166; published June 20, 1933. Class 6.

Frito Company. (See Doolin, Daisy D.)
Gibbs & Company, Inc., Baltimore, Md. Canned vegetables and fruits, etc. 305,918; Aug. 29; Serial No. 336,609; published June 20, 1933. Class 46.
Gibian, Walter F., New York, N. Y. Puzzle games. 305,985; Aug. 29; Serial No. 335,898; published June 20, 1933. Class 22.
Globe Automatic Sprinkler Company, Philadelphia, Pa. Fire alarm systems, etc. 305,863; Aug. 29; Serial No. 332,146; published June 13, 1933. Class 21.
Golden Creme Products Co. (See Bernson, Jack.)
Goodrich Grinding Wheel Company, Chicago, Ill. Sharpening device. 305,866; Aug. 29; Serial No. 337,030; published June 13, 1933. Class 4.
Gottesman and Company, Incorporated, New York, N. Y. Wood pulp. 305,936; Aug. 29; Serial No. 336,233; published June 6, 1933. Class 1.
Grand Rapids Brewing Company, Grand Rapids, Mich. Malt beverages. 305,935; Aug. 29; Serial No. 336,434; published June 20, 1933. Class 48.
Grigsby-Grunow Company, Chicago, Ill. Electric motors and parts thereof. 305,937; Aug. 29; Serial No. 336,503; published June 13, 1933. Class 21.
Guarantee Bicycle Co., St. Louis, Mo. Bicycles and tricycles. 305,977; Aug. 29; Serial No. 337,518; published June 20, 1933. Class 19.
Guaranteed Parts Co. Inc., New York, N. Y. Condensers for internal combustion engines. 305,858; Aug. 29; Serial No. 337,189; published June 13, 1933. Class 21.
Hansen Packing Co. (See Romanoff Caviar Company.)
Hawkins, Agnes C., Parkwater, Wash. Water closet seats. 305,886; Aug. 29; Serial No. 330,547; published June 20, 1933. Class 13.
Hogan, George F., Chicago, Ill. Bread sticks. 305,869; Aug. 29; Serial No. 337,119; published June 13, 1933. Class 46.
Holgate Brothers Company, Kane, Pa. Educational toys and materials therefor. 305,897; Aug. 29; Serial No. 336,764; published June 20, 1933. Class 22.
Horton Manufacturing Company, The, Bristol, Conn. Golf clubs. 305,867; Aug. 29; Serial No. 337,032; published June 20, 1933. Class 22.
Hosinski, Leo J., doing business as Cap's Brain Teaser, Los Angeles, Calif. Puzzle. 305,958; Aug. 29; Serial No. 337,785; published June 20, 1933. Class 22.
Houghton, E. F., & Co., Philadelphia, Pa. Preparation of an oily nature for treating textile fabrics. 93,724; renewed Oct. 14, 1933.
Houghton, E. F., & Co., Philadelphia, Pa. Carbonizing compounds, disinfectants, etc. 93,995; renewed Oct. 28, 1933.
Howard-Iowa Products Co. (See Iowa Stock Food Co.)
Indian Refining Company, Lawrenceville, Ill. Gasoline. 305,940; Aug. 29; Serial No. 326,749; published June 13, 1933. Class 15.
Ingber & Company, Philadelphia, Pa. Handbags and pocket-books. 305,986; Aug. 29; Serial No. 335,615; published June 6, 1933. Class 3.
Inland Products Company, Spokane, Wash. Beer. 305,900; Aug. 29; Serial No. 336,908; published June 20, 1933. Class 48.
Iodine Educational Bureau, Inc., New York, N. Y. Isotonic solution of iodine. 305,850; Aug. 29; Serial No. 337,257; published June 6, 1933. Class 6.
Iowa Stock Food Co., to Howard-Iowa Products Co., Jefferson, Iowa, successor. Veterinary remedies. 93,241; renewed Aug. 26, 1933.
Johns-Manville Corporation, New York, N. Y. Asphaltic emulsion. 305,908; Aug. 29; Serial No. 336,504; published June 13, 1933. Class 12.
Johnson, J. Oliver, Inc., Chicago, Ill. Grass seed. 305,893; Aug. 29; Serial No. 336,680; published June 20, 1933. Class 1.
Kellom, Charles F., & Co., Inc., Philadelphia, Pa. Lubricating oils and greases. 305,909; Aug. 29; Serial No. 336,943; published June 6, 1933. Class 15.
Koch Beverage and Ice Co., The, doing business as The Koch Beverage Co., Wapakoneta, Ohio. Malt beverage. 306,013; Aug. 29. Class 48.
Konigliches Bayr. Hofbräuhaus München, Munich, Germany. Malt beverages. 305,898–9; Aug. 29; Serial Nos. 336,774–5; published June 20, 1933. Class 48.
Kublick, Louise E., Chicago, Ill. Beauty creams, skin lotion, powder, etc. 305,910; Aug. 29; Serial No. 336,944; published June 13, 1933. Class 6.
Laird & Co., Inc., Eatontown, N. J. Vinegar. 305,903; Aug. 29; Serial No. 336,506; published June 6, 1933. Class 46.
La Poten, William, & Co. Inc., New York, N. Y. Candies. 305,885; Aug. 29; Serial No. 333,230; published June 6, 1933. Class 46.
Libby, McNeill & Libby, Chicago, Ill. Canned fruits and vegetables, sweet relish, prepared mustard, etc. 305,988; Aug. 29; Serial No. 335,940; published June 6, 1933. Class 46.
Lilly, Eli, and Company, Indianapolis, Ind. Anesthetic. 305,894; Aug. 29; Serial No. 336,776; published June 20, 1933. Class 6.
Livingston & Company, Inc., New York, N. Y. Children's drawing books and crayons. 305,974; Aug. 29; Serial No. 337,391; published June 20, 1933. Class 22.
Lucky Lady Company. (See Poll, Mrs. Ray.)
Luscher, Oscar F., West Haven, Conn. Chicken meat product. 305,901; Aug. 29; Serial No. 336,910; published June 20, 1933. Class 46.
Main Supply Company. (See Bernson, Jack.)
Manischewitz, B., Co., The, Jersey City, N. J., and Cincinnati, Ohio. Cracker meal. 305,978; Aug. 29; Serial No. 337,477; published June 20, 1933. Class 46.
McCrory Stores Corporation, New York, N. Y. Cutlery. 305,946–7; Aug. 29; Serial Nos. 329,448–9; published May 16, 1933. Class 23.
Merkel & Klenlin, G. m. b. H., Esslingen-Neckar, Germany. Woolen yarns. 306,011; Aug. 29. Class 43.
Messrs. Sucesores de Garvey, S. A., Jeres de la Frontera, Spain. Wines. 305,996; Aug. 29; Serial No. 337,346; published June 20, 1933. Class 47.
Meyer & Lange, Inc., New York, N. Y. Biscuits. 305,852; Aug. 29; Serial No. 337,195; published June 13, 1933. Class 46.
Miller High Life Company, Milwaukee, Wis. Beer. 305,854–5; Aug. 29; Serial Nos. 337,128–9; published June 20, 1933. Class 48.
Miller High Life Company, Milwaukee, Wis. Beer. 305,870–1; Aug. 29; Serial Nos. 337,126–7; published June 20, 1933. Class 48.
Minit Rub Corporation, St. Louis, Mo. Preparation for headaches and colds, etc. 305,911; Aug. 29; Serial No. 336,951; published June 20, 1933. Class 6.
Mitsui & Co., Ltd., Tokio, Japan, and New York, N. Y. Electric lighting apparatus. 305,945; Aug. 29; Serial No. 326,788; published June 6, 1933. Class 21.
Morse Holding Corporation. (See De Puddicombe, Jack, assignor.)
Mülhens, Paul P., doing business as Eau de Cologne- & Parfümerie-Fabrik, "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne, Germany. Eau de Cologne, perfumeries, ethereal oils, etc. 305,997; Aug. 29; Serial No. 334,495; published June 20, 1933. Class 6.
Naamloose Vennootschap Hero Conserven Breda, Teteringen, near Breda, Netherlands. Maltless beverage made from apples. 305,915; Aug. 29; Serial No. 336,521; published June 20, 1933. Class 45.
National Automotive Fibres, Inc., Detroit, Mich. Cushion sewing machines. 306,009; Aug. 29. Class 23.
National Bag Manufacturing Company, Incorporated, Minneapolis, Minn. Burlap bags. 305,981; Aug. 29; Serial No. 335,285; published June 20, 1933. Class 2.
National Biscuit Company, Jersey City, N. J., and Chicago, Ill., to National Biscuit Company, New York, N. Y. Bakery products. 41,868; renewed Jan. 12, 1934.
National Graphite Co. (See Patterson, Milton M.)
National Tire Stores Inc., Denver, Colo. Tires, inner tubes, transmission belting, etc. 305,953; Aug. 29; Serial No. 321,813; published June 6, 1933. Class 35.
National Union Radio Corporation, Newark, N. J. Radio electron tubes. 305,965; Aug. 29; Serial No. 337,348; published June 13, 1933. Class 21.
Neirath, Leopold F., Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Oxygen preparations. 41,199; renewed Sept. 29, 1933.
New Culture Food Corp., Brooklyn, N. Y. Malted food drink 305,906; Aug. 29; Serial No. 336,993; published June 20, 1933. Class 46.
Noah's Ark Auto Accessories, Inc., Rochester, N. Y. Storage batteries. 306,006; Aug. 29; Serial No. 335,206; published June 13, 1933. Class 21.
Nopco Laboratories, Inc., Harrison, N. J. Cod-liver oil and vitamin. 305,873; Aug. 29; Serial No. 337,083; published June 20, 1933. Class 6.
Orange County Canners, Inc., Los Angeles and Fullerton, Calif. Canned orange and grapefruit juice. 305,868; Aug. 29; Serial No. 337,045; published June 6, 1933. Class 46.
Ovelmo Company, Fort Wayne, Ind. Shaving cream. 305,876; Aug. 29; Serial No. 337,234; published June 6, 1933. Class 4.
Patterson, Milton M., doing business as National Graphite Co., Los Angeles, Calif. Lubricating oils and greases. 305,853; Aug. 29; Serial No. 337,197; published June 20, 1933. Class 15.
Peerless Manufacturing Co., Louisville, Ky. Stokers, oil burners, etc. 305,944; Aug. 29; Serial No. 337,803; published June 20, 1933. Class 34.
Pennsylvania Oil Company, Charlotte, N. C. Oil. 305,856; Aug. 29; Serial No. 337,137; published June 6, 1933. Class 15.
Pennwood Clock Corporation, Pittsburgh, Pa. Clock. 305,983; Aug. 29; Serial No. 334,537; published June 20, 1933. Class 27.
Pillsbury Flour Mills Company, Minneapolis, Minn. Crowns or germ of wheat. 305,970; Aug. 29; Serial No. 337,352; published June 20, 1933. Class 46.
Pilot Radio and Tube Corporation, Lawrence, Mass. Radio receiving sets. 305,880; Aug. 29; Serial No. 332,628; published June 20, 1933. Class 21.
Pioneer Chemical Works, Inc., Chicago, Ill. Fire extinguishing liquid chemicals. 305,969; Aug. 29; Serial No. 337,355; published June 6, 1933. Class 6.
Play Buoy Manufacturing Company, Detroit, Mich. Float for swimming and bathing sports. 305,949; Aug. 29; Serial No. 327,167; published June 20, 1933. Class 22.

Poll, Mrs. Ray, doing business as Lucky Lady Company, Chicago, Ill. Combination ironing board and step ladder, etc. 305,942; Aug. 29; Serial No. 337,968; published June 20, 1933. Class 24.
Portal, Dingwall & Norris, London, England. Rum. 305,960; Aug. 29; Serial No. 337,618; published June 20, 1933. Class 49.
Portal, Dingwall & Norris, London, England. Rum. 305,995; Aug. 29; Serial No. 334,159; published June 20, 1933. Class 49.
Porte, Albert, Paris, France. Wines. 305,920; Aug. 29; Serial No. 336,051; published June 20, 1933. Class 47.
Pouyanne, Louis, Paris, France. Dry cleaning compounds. 305,998; Aug. 29; Serial No. 333,687; published June 6, 1933. Class 4.
Preservaline Manufacturing Co., The, Brooklyn, N. Y. Food-preservatives, antiseptics, disinfectants, etc. 94,934; renewed Jan. 13, 1934.
Price Manufacturing Company, The, Chicago, Ill. Clothes lines of wire. 305,891; Aug. 29; Serial No. 336,724; published June 20, 1933. Class 7.
Protected Milk Products, Inc., Los Angeles, Calif. Milk. 305,951; Aug. 29; Serial No. 329,073; published June 20, 1933. Class 46.
Pure Oil Company, The, Chicago, Ill. Fuel and lubricating oils. 305,980; Aug. 29; Serial No. 337,574; published June 20, 1933. Class 15.
Puritan Soap Company, Rochester, N. Y. Liquid cement. 305,972; Aug. 29; Serial No. 337,439; published June 20, 1933. Class 5.
Raffetto, G. B., Inc., New York, N. Y. Sugar-spiced cranberries. 305,934; Aug. 29; Serial No. 336,454; published June 20, 1933. Class 46.
Ray, George I., Charlotte, N. C. Lubricant. 305,955; Aug. 29; Serial No. 337,620; published June 20, 1933. Class 15.
Raytheon Production Corporation, Newton, Mass. Electrical space discharge tubes. 305,916; Aug. 29; Serial No. 336,543; published June 20, 1933. Class 21.
Reckitts (New York) Ltd., Rochester, N. Y. Preparations for cleaning and polishing glass. 305,984; Aug. 29; Serial No. 334,928; published June 20, 1933. Class 4.
Refiners Marketing Company Limited, Los Angeles, Calif. Lubricating oils. 305,873; Aug. 29; Serial No. 337,395; published June 20, 1933. Class 15.
Rogers Bros. Seed Co., Chicago, Ill., and Idaho Falls, Idaho. Combination dried buttermilk and potato flour. 305,967; Aug. 29; Serial No. 337,312; published June 13, 1933. Class 46.
Roll, Walter H., Kansas City, Mo. Empty receptacles. 305,922; Aug. 29; Serial No. 336,194; published June 20, 1933. Class 2.
Roll, Walter H., Kansas City, Mo. Empty receptacles. 305,929; Aug. 29; Serial No. 336,195; published June 20, 1933. Class 2.
Romanoff Caviar Company, doing business as Hansen Packing Co., New York, N. Y. Prepared toast for use with caviar. 305,962; Aug. 29; Serial No. 337,311; published June 13, 1933. Class 46.
Roosa & Ratliff Chemical Co., The, Cincinnati, Ohio. Face powder, rouge, perfume, etc. 305,883; Aug. 29; Serial No. 331,962; published June 20, 1933. Class 6.
Rosenberg Bros. & Co., San Francisco, Calif. Prunes, raisins, dried fruits, etc. 306,002; Aug. 29; Serial No. 335,295; published June 13, 1933. Class 46.
Royal Windsor Petroleum Company, Philadelphia, Pa. Lubricating oil. 305,902; Aug. 29; Serial No. 336,733; published June 13, 1933. Class 15.
Ruhmann Grain & Seed Company, Waco, Tex. Corn meal, wheat flour, and table syrup. 305,989; Aug. 29; Serial No. 335,972; published June 6, 1933. Class 46.
Saccharin-Fabrik, Aktien-Gesellschaft, vorm. Fahlberg, List & Co., Salbke-Westerhüsen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Inorganic acids, sodium-bisulfate, potash, and nitrate of soda and saccharin. 93,467; renewed Sept. 16, 1933.
Sazerac Co., Inc., The, New Orleans, La. Cocktails. 305,857; Aug. 29; Serial No. 337,174; published June 20, 1933. Class 49.
Schindler, Carl, Schöneberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. An antisyphiliticum. 93,383; renewed Sept. 9, 1933.
Schmidt, Johann, Nuremburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Soluble receptacles. 41,079; renewed Sept. 8, 1933.
Schultz, Baujan & Co., Beardstown, Ill. Wheat flour. 305,907; Aug. 29; Serial No. 336,997; published June 6, 1933. Class 46.
Schweiz. Serum- & Impfinstitut Bern, Bern, Switzerland. Pharmaceutical product for colds and influenza. 305,990; Aug. 29; Serial No. 335,298; published June 13, 1933. Class 6.
Sears, Roebuck and Co., Chicago, Ill. Radio tubes and receiving sets, spark plugs, waffle irons, etc. 305,925; Aug. 29; Serial No. 336,138; published June 6, 1933. Class 21.
Shaeffer, W. A., Pen Company, Fort Madison, Iowa. Mucilage, adhesive paste, and glue. 305,917; Aug. 29; Serial No. 336,583; published June 13, 1933. Class 5.
Shuron Optical Company, Geneva, N. Y. Ophthalmic mountings. 306,008; Aug. 29. Class 26.
Sleepy Water Company, Hot Springs, Ark. Preparation of sodium, potassium, etc. 305,961; Aug. 29; Serial No. 337,273; published June 20, 1933. Class 6.
Snider Packing Corporation, Rochester, N. Y. Fruits, vegetables, berries, etc. 305,862; Aug. 29; Serial No. 332,127; published Feb. 7, 1933. Class 46.
Societe A Responsabilite Limitee Cointreau. (See Cointreau Pere et Fils.)
Squibb, E. R., & Sons, New York, N. Y. Milk of magnesia, wafers, and dentifrices. 305,914; Aug. 29; Serial No. 336,666; published June 6, 1933. Class 6.
Standard Oil Development Company, Linden, N. J. Lubricating oils. 305,964; Aug. 29; Serial No. 337,275; published June 20, 1933. Class 15.
Stewart, Kenneth D., Detroit, Mich. Wall holding grip for brooms, mops, etc. 305,859; Aug. 29; Serial No. 333,416; published June 20, 1933. Class 13.
Stores, John Henry, Inc., West Orange, N. J. Textile carpets and rugs. 306,010; Aug. 29. Class 42.
Superior Packing Corp., New York, N. Y. Malted milk. 305,896; Aug. 29; Serial No. 336,697; published June 13, 1933. Class 46.
Tacoma Brewing Co., San Francisco, Calif. Malt beverages. 305,926; Aug. 29; Serial No. 336,242; published June 20, 1933. Class 48.
Texas Company, The, New York, N. Y. Petroleum products. 305,913; Aug. 29; Serial No. 336,918; published June 6, 1933. Class 15.
Texas Company, The, Los Angeles, Calif. Gasoline. 305,941; Aug. 29; Serial No. 326,845; published June 13, 1933. Class 15.
Thel Laboratories. (See Thompson, Julian L.)
Thompson, Julian L., doing business as Thel Laboratories, Keene, Tex. Foot preparation. 305,948; Aug. 29; Serial No. 337,646; published June 20, 1933. Class 6.
Traxam Products Co. (See Berliner, Max H.)
Triple Insulaire Company, Milwaukee, Wis. Protective insulating jackets. 305,932; Aug. 29; Serial No. 336,243; published June 20, 1933. Class 2.
Turco Products, Inc., Los Angeles, Calif. Compounds applied to tile, marble, etc. 305,952; Aug. 29; Serial No. 286,522; published June 20, 1933. Class 4.
Tyler, W. S., Company, The, Cleveland, Ohio. Periodicals. 92,922–3; renewed Aug. 5, 1933.
Union Oil Company of California, Oleum, to Union Oil Company of California, Los Angeles, Calif. Lubricating oil or grease. 92,745; renewed July 22, 1933.
Wadford Fruit Co., Sulphur Springs, Fla. Citrus fruits. 305,888; Aug. 29; Serial No. 331,350; published June 20, 1933. Class 46.
Weaver, C. H., & Co., Chicago, Ill. Cantaloupes and melons 306,003; Aug. 29; Serial No. 333,544; published June 6, 1933. Class 46.
Wile, Julius, Sons & Co., assignor to Julius Wile Sons & Co. Inc., New York, N. Y. Sherry wine. 92,857; renewed July 29, 1933.
Wilson, R. M., doing business as American Mothproof Co., Los Angeles, Calif. Insecticide. 306,000; Aug. 29; Serial No. 333,959; published June 6, 1933. Class 6.
Winsted Hardware Manufacturing Co., The, Winsted, Conn. Electrical appliances. 305,933; Aug. 29; Serial No. 336,481; published June 13, 1933. Class 21.
Woodward, Alma, New York, N. Y. Skin cleansing creams and paste, skin lotion, etc. 305,877; Aug. 29; Serial No. 329,612; published June 6, 1933. Class 6.
Youngs Rubber Corporation, Inc., New York, N. Y. Doucho syringes. 305,912; Aug. 29; Serial No. 336,553; published June 20, 1933. Class 44.
Zeiss, Carl, Jena, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Measuring and scientific appliances. 93,577–82; renewed Sept. 23, 1933.
Zeiss, Carl, Jena, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Optical goods. 93,623; renewed Sept. 30, 1933.
Zifferblatt, George, & Co., Philadelphia, Pa. Cigars. 305,956; Aug. 29; Serial No. 337,649; published June 20, 1933. Class 17.

LIST OF REGISTRANTS OF LABELS

Acidophilus Ice Cream Corporation, New York, N. Y. Ac-To Acidophilus Ice Cream. For Ice Cream. 42,597; Aug. 29.

Alta Vista Wines Co., San Francisco, Calif. Alta Vista Wines "The Wines California Makes Famous". For Wines. 42,598; Aug. 29.

B. & S. Cigar Company. (See Baylin, Richard.)

Baylin, Richard, doing business as B. & S. Cigar Company, Chester, Pa. Cresbem Arms. For Cigars. 42,599; Aug. 29.

Bosworth, Harry J., Company, Chicago, Ill. Alpurpose Investment. For an Investment which is an all around dental casting, soldering and flasking material, and is especially adapted for use with the new synthetic resin materials. 42,600; Aug. 29.

Broadway, Norman J. doing business as Elkay Products Company, Canton, Ohio. Lillian Kay. For Hand Lotion. 42,601; Aug. 29.

Canada's Pride Products Co. Inc., New York, N. Y. Nancy Lee. For Cocoa. 42,602; Aug. 29.

Corn Oil Soap Company, Los Angeles, Calif. Modern Maid Pure Soap Flakes. For Pure Soap Flakes. 42,603; Aug. 29.

Crosse & Blackwell Company, The, Baltimore, Md. Ocean Deep. For Salmon. 42,604; Aug. 29.

Eagle Products Co., Inc., Los Angeles, Calif. Du Gal. For Orange Juice. 42,605; Aug. 29.

Eagle Products Co., Inc., Los Angeles, Calif. Du Gal. For Lemon Juice. 42,606; Aug. 29.

Eagle Products Co., Inc., Los Angeles, Calif. Du Gal. For Grapefruit Juice. 42,607; Aug. 29.

Elkay Products Company. (See Broadway, Norman J.)

Feminine Products, Inc., New York, N. Y. Perstik Deodorant. For Deodorant. 42,608; Aug. 29.

Gly-Ser-Dine Chemical Company, Milwaukee, Wis. Goiter Dine. For Candy used as a Preventive of Goiter. 42,609; Aug. 29.

Halfin, Gates A., St. Louis, Mo. Mrs. Halfin's. For an Imported Bird Seed Mixture. 42,610; Aug. 29.

Lakeside Packing Company, Manitowoc, Wis. Lakeside 'Normus. For Canned Peas. 42,611; Aug. 29.

Loose-Wiles Biscuit Company, Long Island City, N. Y. Sunshine Nobility Assortment. For English Style Biscuits. 42,612; Aug. 29.

Lupo Cigar Company, New York, N. Y. Sigari Italo Balbo. For Cigars. 42,613; Aug. 29.

Midwest Products Co., The. (See Sherman, Hyman E.)

Moto-King Lubricants, Inc., Oil City, Pa. Moto-King. For Motor Oils. 42,614; Aug. 29.

National Biscuit Company, New York, N. Y. Milk-Bone Dog Biscuit. For Dog Biscuit. 42,615; Aug. 29.

National Biscuit Company, New York, N. Y. Junior Milk-Bone. For Food for Dogs and Puppies. 42,616; Aug. 29.

National Biscuit Company, New York, N. Y. Crumbo. For a Food for Cats, Kittens, Puppies, and Toy Dogs. 42,617; Aug. 29.

National Biscuit Company, New York, N. Y. Milk-Bone Puppy Biscuit. For Biscuits for Puppies. 42,618; Aug. 29.

National Milling & Chemical Company, Manayunk, Philadelphia, Pa. Namico. For Scouring Powder. 42,619; Aug. 29.

Park, Philip E., Inc., San Pedro, Calif. Petkelp. For Cat, Dog, and Bird Food. 42,620; Aug. 29.

Prima Products Company, The, Cincinnati, Ohio. Beechdales. For Soap. 42,621; Aug. 29.

Ritter Dental Manufacturing Company, Inc., Rochester, N. Y. Spic and Slic. For Polish and Oil. 42,622; Aug. 29.

Ritter Dental Manufacturing Company, Inc., Rochester, N. Y. Slic. For Oil. 42,623; Aug. 29.

Ritter Dental Manufacturing Company, Inc., Rochester, N. Y. Spic. For Polish. 42,624; Aug. 29.

Service Cigar Co., Philadelphia, Pa. Public Spirit. For Cigars. 42,625; Aug. 29.

Sherman, Hyman E., doing business as The Midwest Products Co., Chicago, Ill. Lady Anne. For a Polish and Cleaner. 42,626; Aug. 29.

Smith, James F., doing business as Smitty's Products Company, Dayton, Ohio. Jim Cracks. For a Pop Corn Confection. 42,627; Aug. 29.

Smitty's Products Company. (See Smith, James F.)

Standard Brands Incorporated, New York, N. Y. Tender Leaf Tea (Orange Pekoe & Pekoe). For Tea. 42,628; Aug. 29.

Standard Brands Incorporated, New York, N. Y. Tender Leaf Tea (Japan Green). For Tea. 42,629; Aug. 29.

Standard Toykraft Products, Inc., New York, N. Y. Da Vinci. For Crayons. 42,630; Aug. 29.

Sunical Packing Company, San Francisco, Calif. Hearst Ranch. For Fancy Halved Peaches. 42,631; Aug. 29.

Thompson, J. W. Jackson, Miss. Thompson's All in One Salve. For Medicinal Salve for External Use Only. 42,632; Aug. 29.

West, M., Chicago, Ill. Cheker-Jump. For a Checker Game. 42,633; Aug. 29.

Wilson, A. L., S. O. Hutton, and W. M. Devitt, Memphis, Tenn. All-State Brand Beer. For Beer. 42,634; Aug. 29.

LIST OF REGISTRANTS OF PRINTS

Central Rock Company, Lexington, Ky. Sandag. For a Fine Aggregate for use in Concrete and Masonry Work. 14,309; Aug. 29.

Feminine Products, Inc., New York, N. Y. Perstik. For Deodorant. 14,310; Aug. 29.

Goodrich, B. F., Rubber Company, The, Akron, Ohio. This New Life-Saving Tire Prevents cause of Blow-outs! (Ad No. GBC–8). For Rubber Tires. 14,311; Aug. 29.

Goodrich, B. F., Rubber Company, The, Akron, Ohio. Don't You want this Life-Saving Tire? (Ad No. GBC–310). For Rubber Tires. 14,312; Aug. 29.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Brenwitt Coal & Coke Co. 305,968; Aug. 29; Serial No. 337,382; published June 20, 1933.

Pulp, Wood. Gottesman and Company. 305,936; Aug. 29; Serial No. 336,283; published June 6, 1933.

Seed, Grass. J. Oliver Johnson, Inc. 305,898; Aug. 29; Serial No. 336,680; published June 20, 1933.

CLASS 2

Bags, Burlap. National Bag Manufacturing Company. 305,981; Aug. 29; Serial No. 335,285; published June 20, 1933.

Bags, Burlap. National Bag Manufacturing Company. 306,007; Aug. 29; Serial No. 335,284; published June 20, 1933.

Bags, Paper. Continental Paper and Bag Corporation. 305,904; Aug. 29; Serial No. 336,817; published June 20, 1933.

Jackets, Protective, insulating. Triple Insulaire Company. 305,932; Aug. 29; Serial No. 336,243; published June 20, 1933.

Receptacles, Empty. W. H. Roll. 305,922; Aug. 29; Serial No. 336,194; published June 20, 1933.

Receptacles, Empty. W. H. Roll. 305,929; Aug. 29; Serial No. 336,195; published June 20, 1933.

Vaults, Grave. Commercial Shearing & Stamping Company. 305,921; Aug. 29; Serial No. 336,034; published June 20, 1933.

CLASS 3

Handbags and pocket-books. Ingber & Company. 305,986; Aug. 29; Serial No. 336,615; published June 6, 1933.

CLASS 4

Abrasive cloth. Carborundum Company. 305,864; Aug. 29; Serial No. 333,097; published June 13, 1933.

Cleaning compounds, Dry. L. Pouyanne. 305,998; Aug. 29; Serial No. 333,687; published June 6, 1933.

Compounds applied to tile, marble, etc. Turco Products, Inc. 305,952; Aug. 29; Serial No. 286,522; published June 20, 1933.

Conditioner, Face. M. H. Berliner. 305,895; Aug. 29; Serial No. 336,814; published June 13, 1933.

Preparation for cleaning, scouring, and polishing. Fel-So Corporation. 305,881; Aug. 29; Serial No. 329,577; published June 20, 1933.

Preparations for cleaning and polishing glass. Reckitts (New York) Ltd. 305,984; Aug. 29; Serial No. 334,928; published June 20, 1933.

Sharpening device. Goodrich Grinding Wheel Company. 305,866; Aug. 29; Serial No. 337,030; published June 13, 1933.

Shaving cream. Daggett & Ramsdell. 305,963; Aug. 29; Serial No. 337,287; published June 6, 1933.

Shaving cream. Ovelmo Company. 305,876; Aug. 29; Serial No. 337,234; published June 6, 1933.

Soap preparations. H. Th. Böhme Aktiengesellschaft. 305,892; Aug. 29; Serial No. 336,670; published June 13, 1933.

CLASS 5

Adhesives. Ault & Wiborg Company. 305,994; Aug. 29; Serial No. 335,844; published June 13, 1933.

Cement, Liquid. Puritan Soap Company. 305,972; Aug. 29; Serial No. 337,490; published June 20, 1933.

Mucilage, adhesive paste, and glue. W. W. A. Sheaffer Pen Company. 305,917; Aug. 29; Serial No. 336,583; published June 13, 1933.

CLASS 6

Acetyl salicylic acid. W. E. Anklam. 305,993; Aug. 29; Serial No. 335,842; published June 6, 1933.

Acids, sodium-bisulfate, potash, and nitrate of soda, and saccharin, Inorganic. Saccharin-Fabrik, Aktien-Gesellschaft, vorm. Fahlberg, List & Co. 93,467; renewed Sept. 16, 1933.

Anesthetic. Eli Lilly and Company. 305,894; Aug. 29; Serial No. 336,776; published June 20, 1933.

Antiseptic preparation. Bi-Nitro Syndicate. 305,875; Aug. 29; Serial No. 337,210; published June 6, 1933.

Antisyphilliticum. C. Schindler. 93,383; renewed Sept. 9, 1933.

Baking-powder. Alfred Bird and Sons, Limited. 92,315; renewed July 1, 1933.

Carbonizing compounds, disinfectants, etc. E. F. Houghton & Co. 93,995; renewed Oct. 28, 1933.

Cod-Liver Oil and vitamin. Nopco Laboratories, Inc. 305,873; Aug. 29; Serial No. 337,083; published June 20, 1933.

Cream, Dental. Colgate-Palmolive-Peet Company. 305,874; Aug. 29; Serial No. 337,104; published June 6, 1933.

Creams and paste, lotion, Skin cleansing. A. Woodward. 305,877; Aug. 29; Serial No. 329,612; published June 6, 1933.

Creams, skin lotion, powder, etc., Beauty. L. E. Kublick. 305,910; Aug. 29; Serial No. 336,944; published June 13, 1933.

Digestive tablets. Frenco Laboratories, Limited. 305,923; Aug. 29; Serial No. 336,166; published June 20, 1933.

Eau de Cologne, perfumeries, ethereal oils, etc. P. P. Mülhens. 305,997; Aug. 29; Serial No. 334,495; published June 20, 1933.

Food-preservatives, antiseptics, disinfectants, etc. Preservaline Manufacturing Co. 94,934; renewed Jan. 13, 1934.

Foot preparation. J. L. Thompson. 305,948; Aug. 29; Serial No. 337,646; published June 20, 1933.

Insecticide. R. F. Wilson. 306,000; Aug. 29; Serial No. 333,959; published June 6, 1933.

Iodine, Isotonic solution of. Iodine Educational Bureau, Inc. 305,850; Aug. 29; Serial No. 337,257; published June 6, 1933.

Laxative. Edros Natural Products, Inc. 305,975; Aug. 29; Serial No. 337,462; published June 20, 1933.

Liquid chemicals, Fire extinguishing. Pioneer Chemical Works, Inc. 305,969; Aug. 29; Serial No. 337,355; published June 6, 1933.

Liquid preparation. Bio Medico, Inc. 305,930; Aug. 29; Serial No. 336,491; published June 6, 1933.

Medicinal powder. W. H. Andrews. 305,927; Aug. 29; Serial No. 336,206; published June 20, 1933.

Milk of magnesia, wafers, and dentifrices. E. R. Squibb & Sons. 305,914; Aug. 29; Serial No. 336,666; published June 6, 1933.

Ointment. Dermalab, Inc. 305,976; Aug. 29; Serial No. 337,460; published June 20, 1933.

Oxygen preparations. L. F. Neirath. 41,199; renewed Sept. 29, 1933.

Pharmaceutical product for colds and influenza. Schweiz. Serum- & Impfinstitut Bern. 305,990; Aug. 29; Serial No. 335,298; published June 13, 1933.

Powder and insecticides, Cleansing. J. M. Campbell. 305,919; Aug. 29; Serial No. 336,688; published June 6, 1933.

Powder, rouge, perfume, etc., Face. Room & Ratliff Chemical Co. 305,883; Aug. 29; Serial No. 331,962; published June 20, 1933.

Preparation for diarrhea in poultry. H. E. Berg. 305,872; Aug. 29; Serial No. 337,065; published June 20, 1933.

Preparation for headaches and colds. Minit-Rub Corporation. 305,911; Aug. 29; Serial No. 336,951; published June 20, 1933.

Preparation of an oily nature for treating textile fabrics. E. F. Houghton & Co. 93,724; renewed Oct. 14, 1933.

Preparation of sodium, potassium, etc. Sleepy Water Company. 305,961; Aug. 29; Serial No. 337,278; published June 20, 1933.

Soluble receptacles. J. Schmidt. 41,079; renewed Sept. 8, 1933.

Veterinary remedies. Iowa Stock Food Co. 93,241; renewed Aug. 26, 1933.

Worm-eradicator, weed and insect destroyers, and disinfectants. Bon Arbor Chemical Co. 94,979; renewed Jan. 20, 1934.

CLASS 7

Clothes lines of wire. Price Manufacturing Company. 305,891; Aug. 29; Serial No. 336,724; published June 20, 1933.

CLASS 12

Asphaltic emulsion. Johns-Manville Corporation. 305,908; Aug. 29; Serial No. 336,504; published June 13, 1933.

CLASS 13

Awning arms, Lateral. Astrup Company. 305,957; Aug. 29; Serial No. 337,770; published June 20, 1933.

Handles for stoves, Controller. Florence Stove Company. 305,943; Aug. 29; Serial No. 337,779; published June 20, 1933.

Seats, Water closet. A. C. Hawkins. 305,886; Aug. 29; Serial No. 330,547; published June 20, 1933.

Wall holding grip for brooms, mops, etc. K. D. Stewart. 306,050; Aug. 29; Serial No. 333,416; published June 20, 1933.

CLASS 14

Alloy. S. Frankel. 305,938; Aug. 29; Serial No. 336,501; published June 20, 1933.

Castings, Grey iron. Dalton Foundries, Inc. 305,979; Aug. 29; Serial No. 337,601; published June 20, 1933.

Castings, Malleable iron. Dalton Foundries, Inc. 305,959; Aug. 29; Serial No. 337,602; published June 20, 1933.

Solder. Berry Solder Co. Inc. 306,012; Aug. 29.

CLASS 15

Gasoline. Bowling Green Refining Company. 305,954; Aug. 29; Serial No. 325,251; published June 20, 1933.

Gasoline. Indian Refining Company. 305,940; Aug. 29; Serial No. 326,740; published June 13, 1933.

Gasoline. Texas Company. 305,941; Aug. 29; Serial No. 326,345; published June 13, 1933.

Lubricant. G. I. Ray. 305,955; Aug. 29; Serial No. 337,620; published June 20, 1933.

Oil. Pennsylvania Oil Company. 305,856; Aug. 29; Serial No. 337,137; published June 6, 1933.

Oil, gasoline, and kerosene. Economy Oil Sales Corporation. 306,014; Aug. 29.

Oil, Lubricating. Royal Windsor Petroleum Company. 305,902; Aug. 29; Serial No. 336,783; published June 13, 1933.

Oil or grease. Union Oil Company of California. 92,745; renewed July 22, 1933.

Oils and greases, Lubricating. Baum's Castorine Company. 305,878; Aug. 29; Serial No. 329,849; published June 20, 1933.

Oils and greases, Lubricating. Charles F. Kellom & Co. 305,909; Aug. 29; Serial No. 336,948; published June 6, 1933.

Oils and greases, Lubricating. M. M. Patterson. 305,853; Aug. 29; Serial No. 337,197; published June 20, 1933.

Oils, Fuel and lubricating. Pure Oil Company. 305,980; Aug. 29; Serial No. 337,574; published June 20, 1933.

Oils, Lubricating. Atlantic Refining Company. 305,851; Aug. 29; Serial No. 337,062; published June 6, 1933.

Oils, Lubricating. Atlantic Refining Company. 305,861; Aug. 29; Serial No. 337,061; published June 6, 1933.

Oils, Lubricating. Freedom Oil Works Company. 305,987; Aug. 29; Serial No. 335,670; published June 20, 1933.

Oils, Lubricating. Refiners Marketing Company Limited. 305,973; Aug. 29; Serial No. 337,595; published June 20, 1933.

Oils, Lubricating. Standard Oil Development Company. 305,964; Aug. 29; Serial No. 337,275; published June 20, 1933.

Petroleum products. Texas Company. 305,913; Aug. 29; Serial No. 336,918; published June 6, 1933.

CLASS 17

Cigars. George Ziffer blatt & Co. 305,956; Aug. 29; Serial No. 337,649; published June 20, 1933.

CLASS 19

Bicycles and tricycles. Guarantee Bicycle Co. 305,977; Aug. 29; Serial No. 337,518; published June 20, 1933.

Flying machines and parts thereof. Daimler-Motoren-Gesellschaft. 94,066; renewed Nov. 4, 1933.

Vehicles and machines therefor. Daimler-Motoren-Gesellschaft. 41,127; renewed Sept. 15, 1933.

CLASS 20

Linoleum. Armstrong Cork Company. 94,859; renewed Jan. 13, 1934.

CLASS 21

Batteries, Storage. Crystal Chemical Corporation. 305,905; Aug. 29; Serial No. 336,900; published June 20, 1933.

Batteries, Storage. Noah's Ark Auto Accessories, Inc. 306,006; Aug. 29; Serial No. 335,206; published June 13, 1933.

Condensers for internal combustion engines. Guaranteed Parts Co. 305,858; Aug. 29; Serial No. 337,189; published June 13, 1933.

Current jumpers, High tension. J. De Puddicombe. 305,879; Aug. 29; Serial No. 332,293; published June 13, 1933.

Electric lighting apparatus. Mitsui & Co. 305,945; Aug. 29; Serial No. 326,788; published June 6, 1933.

Electric motors and parts thereof. Grigsby-Grunow Company. 305,937; Aug. 29; Serial No. 336,503; published June 13, 1933.
Electrical appliances. Winsted Hardware Manufacturing Co. 305,933; Aug. 29; Serial No. 336,481; published June 13, 1933.
Electrical space discharge tubes. Raytheon Production Corporation. 305,916; Aug. 29; Serial No. 336,543; published June 20, 1933.
Fire alarm systems, etc. Globe Automatic Sprinkler Company. 305,863; Aug. 29; Serial No. 332,146; published June 13, 1933.
Fired material. American Lava Corporation. 305,928; Aug. 29; Serial No. 336,205; published June 20, 1933.
Radio electron tubes. National Union Radio Corporation. 305,965; Aug. 29; Serial No. 337,348; published June 13, 1933.
Radio receiving sets. Pilot Radio and Tube Corporation. 305,880; Aug. 29; Serial No. 332,628; published June 20, 1933.
Radio tubes and receiving sets, spark plugs, waffle irons, etc. Sears, Roebuck and Co. 305,925; Aug. 29; Serial No. 336,138; published June 6, 1933.

CLASS 22

Coloring and drawing outfits, Children's. Burton Playthings, Inc. 305,971; Aug. 29; Serial No. 337,459; published June 20, 1933.
Drawing books and crayons, Children's. Livingston & Company. 305,974; Aug. 29; Serial No. 337,391; published June 20, 1933.
Float for swimming and bathing sports. Play-Buoy Manufacturing Company. 305,949; Aug. 29; Serial No. 327,167; published June 20, 1933.
Golf clubs. Horton Manufacturing Company. 305,867; Aug. 29; Serial No. 337,032; published June 20, 1933.
Puzzle. L. J. Hosinski. 305,958; Aug. 29; Serial No. 337,785; published June 20, 1933.
Puzzle games. W. F. Gibian. 305,985; Aug. 29; Serial No. 335,398; published June 20, 1933.
Toys and materials therefor, Educational. Holgate Brothers Company. 305,897; Aug. 29; Serial No. 336,764; published June 20, 1933.

CLASS 23

Cutlery. McCrory Stores Corporation. 305,946–7; Aug. 29; Serial Nos. 329,448–9; published May 16, 1933.
Sewing machine, Cushion. National Automotive Fibres, Inc. 306,009; Aug. 29.
Shovels, spades, and scoops. Ames Shovel & Tool Company. 92,616–17; renewed July 22, 1933.

CLASS 24

Ironing board and step ladder, etc. R. Poll. 305,942; Aug. 29; Serial No. 337,968; published June 20, 1933.

CLASS 26

Measuring and scientific appliances. C. Zeiss. 93,577–82; renewed Sept. 23, 1933.
Ophthalmic mountings. Shuron Optical Company. 306,008; Aug. 29.
Optical goods. Carl Zeiss. 93,623; renewed Sept. 30, 1933.

CLASS 27

Clock. Pennwood Clock Corporation. 305,983; Aug. 29; Serial No. 334,537; published June 20, 1933.

CLASS 34

Air conditioning unit. Carrier-York Corporation. 305,887; Aug. 29; Serial No. 330,780; published June 20, 1933.
Stokers, oil burners, etc. Peerless Manufacturing Co. 305,944; Aug. 29; Serial No. 337,803; published June 20, 1933.

CLASS 35

Tires, inner tubes, transmission belting, etc. National Tire Stores Inc. 305,953; Aug. 29; Serial No. 321,813; published June 6, 1933.

CLASS 38

Periodical. W. S. Tyler Company. 92,922–3; renewed Aug. 5, 1933.

CLASS 39

Braces and suspenders, Shoulder. P. Bailly & Cie. 92,939–40; renewed Aug. 12, 1933.

CLASS 42

Carpets and rugs, Textile. John Henry Stores, Inc. 306,010; Aug. 29.
Cotton piece goods. Amoskeag Manufacturing Company. 94,509; renewed Dec. 9, 1933.
Cotton piece goods. Amoskeag Manufacturing Company. 94,851–4; renewed Jan. 13, 1933.
Cotton piece goods. Amoskeag Manufacturing Company. 94,853–4; renewed Jan. 13, 1934.
Muslin, Bleached. Ferguson McKinney Dry Goods Co. 90,425; renewed Feb. 25, 1933

CLASS 43

Yarns, Woolen. Merkel & Kienlin, G. m. b. H. 306,011; Aug. 29.

CLASS 44

Nonelectrical appliance used as an aid to hearing. American Earphone Co. Inc. 305,890; Aug. 29; Serial No. 336,706; published June 20, 1933.
Syringes, Douche. Youngs Rubber Corporation. 305,912; Aug. 29; Serial No. 336,553; published June 20, 1933.
Ultra-violet and electric heating device, Combination. W. Beyer. 305,884; Aug. 29; Serial No. 331,174; published June 20, 1933.

CLASS 45

Beverage made from apples, Maltless. Naamlooze Vennootschap Hero Conserven Breda. 305,915; Aug. 29; Serial No. 336,521; published June 20, 1933.

CLASS 46

Bakery products. National Biscuit Company. 41,868; renewed Jan. 12, 1934.
Biscuits. Meyer & Lange, Inc. 305,852; Aug. 29; Serial No. 337,195; published June 13, 1933.
Bread. C. W. Buckey Baking Company. 306,004; Aug. 29; Serial No. 333,668; published June 20, 1933.
Bread sticks. G. F. Hogan. 305,869; Aug. 29; Serial No. 337,119; published June 13, 1933.
Buttermilk and potato flour, Combination dried. Rogers Bros. Seed Co. 305,967; Aug. 29; Serial No. 337,312; published June 13, 1933.
Cakes. D. D. Doolin 306,005; Aug 29; Serial No. 335,180; published June 20, 1933.
Cakes, Fruit, layer and coffee. W. H. Brooks. 305,924; Aug. 29; Serial No. 336,152; published June 6, 1933.
Candies. William La Poten & Co. Inc. 305,885; Aug. 29; Serial No. 333,230; published June 6, 1933.
Candy. Paul F. Beich Company. 305,991; Aug. 29; Serial No. 335,846; published June 6, 1933.
Candy. Boston Confectionery Company. 305,992; Aug. 29; Serial No. 335,848; published June 6, 1933.
Canned and bottled fruits, vegetables, etc. Brook-Maid Food Co., Inc. 305,889; Aug. 29; Serial No. 331,317; published Feb. 21, 1933.
Canned fruits and vegetables, sweet relish, prepared mustard, etc. Libby, McNeill & Libby. 305,988; Aug. 29; Serial No. 335,940; published June 6, 1933.
Canned orange and grapefruit juice. Orange County Canners, Inc. 305,868; Aug. 29; Serial No. 337,045; published June 6, 1933.
Canned vegetables, fruits, etc. Gibbs & Company. 305,918; Aug. 29; Serial No. 336,609; published June 20, 1933.
Cantaloupes and melons. C. H. Weaver & Co. 306,003; Aug. 29; Serial No. 333,544; published June 6, 1933.
Chicken meat product. O. F. Luscher. 305,901; Aug. 29; Serial No. 336,910; published June 20, 1933.
Corn meal, wheat flour, and table syrup. Ruhmann Grain & Seed Company. 305,989; Aug. 29; Serial No. 335,972; published June 6, 1933.
Cracker meal. B. Manischewitz Co. 305,978; Aug. 29; Serial No. 337,477; published June 20, 1933.
Cranberries, Sugar-spiced. G. B. Raffetto Inc. 305,984; Aug. 29; Serial No. 336,454; published June 20, 1933.
Custard-powder, egg-powder, and blanc-mange powder. Alfred Bird and Sons, Limited. 93,960; renewed Oct. 28, 1933.
Flour, live stock feeds, and cereal products, Wheat. Federal Mill, Inc. 305,950; Aug. 29; Serial No. 327,683; published Feb. 7, 1933.
Flour, Wheat. Schultz, Baujan & Co. 305,907; Aug. 29; Serial No. 336,997; published June 6, 1933.
Food drink, Malted. New Culture Food Corp. 305,906; Aug. 29; Serial No. 336,998; published June 20, 1933.
Foods for foxes and all carnivorous animals. A. L. Belotti. 305,996; Aug. 29; Serial No. 334,289; published June 6, 1933.
Fruits, Citrus. Wadford Fruit Co. 305,888; Aug. 29; Serial No. 331,350; published June 20, 1933.
Fruits, vegetables, berries, etc. Snider Packing Corporation. 305,862; Aug. 29; Serial No. 332,127; published Feb. 7, 1933.
Grapes. Earl Fruit Company. 306,015; Aug. 29.
Haddock, cod, etc. Bay State Fishing Company. 305,951; Aug. 29; Serial No. 336,251; published June 20, 1933.
Hams and sliced bacon and bacon nuggets. East Tennessee Packing Company. 305,982; Aug. 29; Serial No. 335,811; published June 13, 1933.
Milk. Protected Milk Products, Inc. 305,951; Aug. 29; Serial No. 329,073; published June 20, 1933.
Milk, Malted. Superior Packing Corp. 305,896; Aug. 29; Serial No. 336,697; published June 13, 1933.
Prunes, raisins, dried fruits, etc. Rosenberg Bros. & Co. 306,002; Aug. 29; Serial No. 335,295; published June 13, 1933.
Toast for use with caviar, Prepared. Romanoff Caviar Company. 305,962; Aug. 29; Serial No. 337,311; published June 13, 1933.
Vegetable crystallizing oil. Capital City Products Company. 306,016; Aug. 29.
Vegetables, Fresh. W. C. Ferguson. 305,865; Aug. 29; Serial No. 337,028; published June 6, 1933.
Vinegar. Laird & Co. 305,908; Aug. 29; Serial No. 336,506; published June 6, 1933.
Wheat, Crowns or germ of. Pillsbury Flour Mills Company. 305,970; Aug. 29; Serial No. 337,352; published June 20, 1933.

CLASS 47

Sherry-wine. Julius Wile, Sons & Co. 92,857; renewed July 20, 1933.
Wines. A. Porte. 305,920; Aug. 29; Serial No. 336,051; published June 20, 1933.
Wines. Messrs. Sucesores De Garvey, S. A. 305,966; Aug. 29; Serial No. 337,346; published June 20, 1933.

CLASS 48

Ale. Carling Breweries Limited. 306,001; Aug. 29; Serial No. 334,137; published June 20, 1933.
Ales, beers, lagers, etc. Carling Breweries Limited. 305,860; Aug. 29; Serial No. 333,424; published June 20, 1933.
Beer. Inland Products Company. 305,900; Aug. 29; Serial No. 336,908; published June 20, 1933.
Beer. Miller High Life Company. 305,854–5; Aug. 29; Serial Nos. 337,128–9; published June 20, 1933.
Beer. Miller High Life Company. 305,870–1; Aug. 29; Serial Nos. 337,126–7; published June 20, 1933.
Malt beverage. Koch Beverage and Ice Co. 306,013; Aug. 29.
Malt beverages. J. Bernson. 305,930; Aug. 29; Serial No. 336,253; published June 20, 1933.
Malt beverages. Bohemian Distributing Co. Ltd. 305,999; Aug. 29; Serial No. 333,724; published June 20, 1933.
Malt beverages. Grand Rapids Brewing Company. 305,935; Aug. 29; Serial No. 336,434; published June 20, 1933.
Malt beverages. Konigliches bayr. Hofbrauhaus München. 305,893–9; Aug. 29; Serial Nos. 336,774–5; published June 20, 1933.
Malt beverages. Tacoma Brewing Co. 305,926; Aug. 29; Serial No. 336,242; published June 20, 1933.

CLASS 49

Cocktails. Sazerac Co. 305,857; Aug. 29; Serial No. 337,174; published June 20, 1933.
Liqueur. Cointreau Pere et Fils. 94,714; renewed Dec. 30, 1933.
Rum. Portal, Dingwall & Norris. 305,960; Aug. 29; Serial No. 337,618; published June 20, 1933.
Rum. Portal, Dingwall & Norris. 305,995; Aug. 29; Serial No. 334,159; published June 20, 1933.
Whisky, etc. Consolidated Distilleries, Limited. 305,882; Aug. 29; Serial No. 337,023; published June 20, 1933.

LIST OF LABELS

Ac-To Acidophilus Ice Cream. For Ice Cream. Acidophilus Ice Cream Corporation. 42,597; Aug. 29.
All-State Brand Beer. For Beer. A. L. Wilson, S. O. Hutton and W. M. Devitt. 42,634; Aug. 29.
Alpurpose Investment. For an Investment which is an all around dental casting, soldering and flasking material and is especially adapted for use with the new synthetic resin materials. Harry J. Bosworth Company. 42,600; Aug. 29.
Alta Vista Wines "The Wines California Makes Famous". For Wines. Alta Vista Wines Co. 42,598; Aug. 29.
Beechdales. For Soap. Prima Products Company. 42,621; Aug. 29.
Checker-Jump. For a Checker Game. M. West. 42,633; Aug. 29.
Creshem Arms. For Cigars. R. Baylin. 42,599; Aug. 29.
Crumbs. For a Food for Cats, Kittens, Puppies, and Toy Dogs. National Biscuit Company. 42,617; Aug. 29.
Da Vinci. For Crayons. Standard Toykraft Products, Inc. 42,630; Aug. 29.
Du Gal. For Orange Juice. Eagle Products Co. 42,605; Aug. 29.
Du Gal. For Lemon Juice. Eagle Products Co. 42,606; Aug. 29.
Du Gal. For Grapefruit Juice. Eagle Products Co. 42,607; Aug. 29.
Goiter-Dine. For Candy used as a Preventive of Goiter. Gly-Ser-Dine Chemical Company. 42,609; Aug. 29.
Hearst Ranch. For Fancy Halved Peaches. Sunical Packing Company. 42,631; Aug. 29.
Jim Cracks. For a Pop Corn Confection. J. F. Smith. 42,627; Aug. 29.
Junior Milk-Bone. For Food for Dogs and Puppies. National Biscuit Company. 42,616; Aug. 29.
Lady Anne. For a Polish and Cleaner. H. E. Sherman. 42,626; Aug. 29.
Lakeside 'Normus. For Canned Peas. Lakeside Packing Company. 42,611; Aug. 29.
Lillian Kay. For Hand Lotion. N. J. Broadway. 42,601; Aug. 29.
Milk-Bone Dog Biscuit. For Dog Biscuit. National Biscuit Company. 42,615; Aug. 29.
Milk-Bone Puppy Biscuit. For Biscuits for Puppies. National Biscuit Company. 42,618; Aug. 29.
Modern Maid Pure Soap Flakes. For Pure Soap Flakes. Corn Oil Soap Company. 42,603; Aug. 29.
Moto-King. For Motor Oils. Moto-King Lubricants, Inc. 42,614; Aug. 29.
Mrs. Haifin's. For an Imported Bird Seed Mixture. G. A. Haifin. 42,610; Aug. 29.
Namico. For Scouring Powder. National Milling & Chemical Company. 42,619; Aug. 29.
Nancy Lee. For Cocoa. Canada's Pride Products Co. Inc. 42,602; Aug. 29.
Ocean Deep. For Salmon. Crosse & Blackwell Company. 42,604; Aug. 29.
Perstik Deodorant. For Deodorant. Feminine Products, Inc. 42,608; Aug. 29.
Petkelp. For Cat, Dog and Bird Food. Philip R. Park, Inc. 42,620; Aug. 29.
Public Spirit. For Cigars. Service Cigar Co. 42,625; Aug. 29.
Sigari Italo Balbo. For Cigars. Lupo Cigar Company. 42,613; Aug. 29.
Slic. For Oil. Ritter Dental Manufacturing Company. 42,628; Aug. 29.
Spic and Slic. For Polish and Oil. Ritter Dental Manufacturing Company. 42,622; Aug. 29.
Spic. For Polish. Ritter Dental Manufacturing Company. 42,624; Aug. 29.
Sunshine Nobility Assortment. For English Style Biscuits. Loose-Wiles Biscuit Company. 42,612; Aug. 29.
Tender Leaf Tea (Japan Green). For Tea. Standard Brands Incorporated. 42,629; Aug. 29.
Tender Leaf Tea (Orange Pekoe & Pekoe). For Tea. Standard Brands Incorporated. 42,623; Aug. 29.
Thompson's All in One Salve. For Medicinal Salve for External use Only. J. W. Thompson. 42,632; Aug. 29.

LIST OF PRINTS

Don't You want this Life-Saving Tire? (Ad No. GBC–310). For Rubber Tires. B. F. Goodrich Rubber Company. 14,312; Aug. 29.

Perstik. For Deodorant. Feminine Products, Inc. 14,310; Aug. 29.

Sandag. For a Fine Aggregate for Use in Concrete and Masonry Work. Central Rock Company. 14,309; Aug. 29.

This New Life-Saving Tire Prevents Cause of Blow-Outs! (Ad No. GBC–8.) For Rubber Tires. B. F. Goodrich Rubber Company. 14,311; Aug. 29.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 29TH DAY OF AUGUST, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A. B. See Elevator Company. (See Lindstrom, N. O., and Persson, assignors.)
Acosta, Antonio M., et al. (See Massino, Cesar A. M., assignor.)
Acosta, Tomas J., et al. (See Massino, Cesar A. M., assignor.)
Adams, Ethel B., Cantonsville, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Filing rack. 1,924,096; Aug. 29.
Adams, Mathias J., Turkey River, Iowa. Running gear. 1,924,388; Aug. 29.
Addison, Tom, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machine. 1,924,588; Aug. 29.
Aderer, Julius, New York, N. Y. Alloy. 1,924,097; Aug. 29.
Agfa Ansco Corporation. (See Goldhammer, L., and Stiefenhofer, assignors.)
Air-O-Cel, Inc. (See Reinke, Floyd C., assignor.)
Air Reduction Company. (See Daley, Charles A., assignor.)
Aitken, William J., et al. (See Morton, James B., assignor.)
Ajax Spring Stabilizer Company. (See Ferguson, W. T., and Eisenhauer, assignors.)
Albrecht, George F. (See Banfield, F. B., and Albrecht.)
Alden, Herbert O., Oakland, assignor to Shell Oil Company, San Francisco, Calif. Service station. Des. 90,611; Aug. 29.
Alemite Corporation. (See Bystricky, Joseph, assignor.)
Alemite Corporation. (See Zerk, Oscar U., assignor.)
Alexander, Harvey B., Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Delay cap. 1,924,342; Aug. 29.
Allen, Albert, Winchester, assignor to Atlantic Precision Instrument Company, Malden, Mass. Measuring and indicating properties of conductors. 1,924,067; Aug. 29.
Allen-Bradley Company. (See Bradley, Harry L., assignor.)
Alley, John D., Pittsburgh, Pa., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Making linings for casting mold cavities. 1,924,267; Aug. 29.
Alliance Machine Company, The. (See Harry, R. J., and Shutt, assignors.)
Allis, Louis, Company, The. (See Smith, Harold L., assignor.)
Almgren, August E., Hillside, N. J., assignor to American Can Company, New York, N. Y. Can feeding mechanism. 1,924,146; Aug. 29.
Aluminum Company of America. (See Brown, Russel G., assignor.)
Aluminum Company of America. (See Rowe, Howard J., assignor.)
Aluminum Company of America. (See Weber, Ludwig J., assignor.)
Amann, Paul E., Nanterre, France. Process and apparatus for accurately cutting and rectifying gears. 1,925,025; Aug. 29.
American Anode, Inc. (See Newton, Edwin B., assignor.)
American Anode, Inc. (See Szegvari, Andrew, assignor.)
American Brakelock Corporation. (See Blume, William A., assignor.)
American Brake Shoe and Foundry Company, The. (See Alley, John D., assignor.)
American Brake Shoe and Foundry Company, The. (See Pogue, Robert B., assignor.)
American Can Company. (See Almgren, August E., assignor.)
American Engineering Company. (See Kuselewski, Albert R., assignor.)
American Forge and Socket Company, The. (See Saunders, Walter S., assignor.)
American Lurgi Corporation. (See Debuch, Carl P., assignor.)
American Manufacturing Company. (See Brown, Robert B., assignor.)
American Meter Company. (See Linderman, Garrett B., jr., assignor.)
American Pulley Company, The. (See Everson, Frank T., assignor.)
American Rolling Mill Company, The. (See Millan, E. N., and Jones, assignors.)
American Telephone and Telegraph Company. (See Smythe, Edwin H., assignor.)
Ameritex-Sudanette, Div. of Coba-Hall Marx Company. (See Von Eisenbarth, August, assignor.)
Anderson, Alexander P., Red Wing, Minn., assignor to Anderson Puffed Rice Company, Chicago, Ill. Production of puffed products. 1,924,626; Aug. 29.
Anderson, Alexander P., Red Wing, Minn. Production of puffed products. 1,924,627; Aug. 29.
Anderson, Christopher J., assignor to Blazek Cold Storage Door Company, Chicago, Ill. Cold Storage doorlock. 1,924,298; Aug. 29.
Anderson, Edward W. (See Hosmon, J. O., and Anderson.)
Anderson, Eugene D. (See Brown, H. P., and Anderson, assignors.)
Anderson, Martin J., assignor to Mathews Conveyer Company, Ellwood City, Pa. Brake mechanism for conveyers. 1,924,899; Aug. 29.
Anderson Puffed Rice Company. (See Anderson, Alexander P., assignor.)
Andres, William J., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,924,589; Aug. 29.
Andrews, Charles, Rockford, Ill., assignor to The Washburn Company, Worcester, Mass. Bicycle basket. 1,924,343; Aug. 29.
Anschütz-Kaempfe, Hermann, Munich, Germany, assignor to Nederlandsche Technische Handel Maatschappij Giro. Gyroscopic compass. 1,924,688; Aug. 29.
Armacost, Wilbur H., assignor to The Superheater Company, New York, N. Y. Symmetrical heating unit. 1,924,900; Aug. 29.
Aro Equipment Corporation, The. (See Eastman, Ivan L., assignor.)
Aro Equipment Corporation, The. (See Wilson, Charles G., assignor.)
Ash, Charles S., Birmingham, assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Wheel. 1,924,970; Aug. 29.
Associated Electric Laboratories, Inc. (See Griffins, Morris E., assignor.)
Associated Electric Laboratories, Inc. (See Hershey, Harry E., assignor.)
Associated Electric Laboratories, Inc. (See Homer, William J., assignor.)
Associated Electric Laboratories, Inc. (See Mercer, E., and Tench, assignors.)
Associated Telephone and Telegraph Company. (See Stehlik, Rudolph F., assignor.)
Atherton, Alfred L., Verona, Pa., assignor to Westinghouse Electric & Manufacturing Company. Copper oxide rectifier. 1,924,300; Aug. 29.
Atkinson, Ralph L., Dorchester, Mass., assignor, by mesne assignments, to Empire Trust Company, New York, N. Y., as trustee. Granular material and method of making. 1,925,065; Aug. 29.
Atlantic Precision Instrument Company. (See Allen, Albert, assignor.)
Auerbach, Ernst B., Berlin, Germany. Producing carbon dioxide in solid form. 1,925,041; Aug. 29.
Aurig, Max, Munich, Germany. Disintegrator. 1,924,828; Aug. 29.
Austin Manufacturing Co. (See Wilson, Fred D., assignor.)
Austin, William A., Wynnewood, Pa. Water tube locomotive boiler. 1,925,026; Aug. 29.
Automotive Engineering Corporation. (See Fageol, Rollie B., assignor.)
Automotive Engineering Corporation. (See Marcum, Arthur I., assignor.)
Baasch-Ross Tool Company. (See Wickersham, H. P., and Burns, assignors.)
Baash, Lawrence F., Los Angeles, and W. H. Maxwell, Beverly Hills, Calif. Tongs. 1,924,889; Aug. 29.
Babcock & Wilcox Company, The. (See Harter, Isaac, assignor.)
Babcock & Wilcox Company, The. (See Lucke, Charles E., assignor.)
Babcock & Wilcox Company, The. (See Trainer, James E., assignor.)
Babel, Raymond A., Clichy, France, assignor, by mesne assignments, to Bendix Brake Company, South Bend, Ind. Brake shoe. 1,924,590; Aug. 29.
Babinet, Marie L. A., Boulogne-sur-Seine, France, assignor, by mesne assignments, to The Nitricastiron Corporation. Surface hardened cast iron article of manufacture. 1,924,344; Aug. 29.
Babson, Roger W. (See Nichols, Elmer L., assignor.)
Babson, Roger W., Wellesley, Mass. Automobile parking meter with theft alarm. 1,924,523; Aug. 29.
Bacher, Rollin L., Lakewood, assignor to The United States Air Compressor Company, Cleveland, Ohio. Power pump. 1,924,829; Aug. 29.
Bäckström, Sigurd M., Stockholm, Sweden, assignor, by mesne assignments, to Electrolux Servel Corporation, New York, N. Y. Absorption refrigerating system. 1,924,770; Aug. 29.

Bailey, Addison S., Houston, Tex., and E. M. Reynolds, Tulsa, Okla., assignors to The Texas Company, New York, N. Y. Treating hydrocarbon oils. 1,924,534; Aug. 29.

Bailey Meter Company. (See Ryder, John D., assignor.)

Bailey, William G. (See Lower, N. M., Chalker, and Bailey.)

Bain, Edgar C., Short Hills, and E. S. Davenport, Newark, N. J., assignors to United States Steel Corporation, New York, N. Y. Thermally hardening steel. 1,924,099; Aug. 29.

Bakelite Corporation. (See Redman, L. V., Weith, and Brock, assignors.)

Baker, Gilbert L., and A. B. Oberg, Oakland, Calif. Hose supporter. 1,924,478; Aug. 29.

Baker, Hastings W. (See Ohmer, J. F., Long, and Baker.)

Balch, John L., Potlatch, Idaho. Score keeping device. 1,924,479; Aug. 29.

Ball, James R. (See Ball, William H. and J. R.)

Ball, Joseph A., Los Angeles, Calif., assignor, by mesne assignments, to Technicolor, Inc., New York, N. Y. Color cinematographic apparatus. 1,924,901; Aug. 29.

Ball, William H., Chicago, and J. R. Ball, La Grange, Ill. Aviation instruction apparatus. 1,924,390; Aug. 29.

Ballenger, Edgar G. (See Grayson, R. U., and Ballenger.)

Banfield, Frederic E., jr., and G. F. Albrecht, Saco, Maine, assignors to Saco-Lowell Shops, Boston, Mass. Roving frame. 1,924,176; Aug. 29.

Bardon, Donnis M., F. G. Greaves, and S. P. Watt, Seattle, Wash., assignors to Bardon-Greaves Co., Incorporated. Trolling winch. 1,924,391; Aug. 29.

Bardon-Greaves Co. (See Bardon, D. M., Greaves, and Watt, assignors.)

Barker, Charles P., Glencoe, assignor to Container Corporation of America, Chicago, Ill. Drier. 1,924,100; Aug. 29.

Barnard, Dean S., Hinsdale, Ill., assignor to The Rome Company, Inc. Spring connecting means. 1,925,066; Aug. 29.

Barnes, Alvin P., Minneapolis, assignor, by mesne assignments, of one-third to H. W. Gehr, Anoka, one-third to I. H. Barnes, and one-third to E. C. Friel, Minneapolis, Minn. Fruit cutting machine. 1,924,392; Aug. 29.

Barnes, Isabell H., et al. (See Barnes, Alvin P., assignor.)

Barnes, Jacob C., assignor to P-G Publishing Company, Pittsburgh, Pa. Supply mechanism. 1,924,731; Aug. 29.

Barnett, Louis, Brooklyn, N. Y. Electrical device. 1,924,902; Aug. 29.

Barrett Company, The. (See Miller, Stuart P., assignor.)

Barrett Company, The. (See Stern, Albert G., assignor.)

Barrett Company, The. (See Woodcock, J. C., and Paffen, assignors.)

Barringer, Elmer D., Cleveland, Ohio. Window construction. Re18,926; Aug. 29.

Barron-Gray Packing Company. (See Erickson, Arvid M., assignor.)

Bartholomew, Earl, assignor to Ethyl Gasoline Corporation, Detroit, Mich. Removing carbon deposits from internal combustion engines. 1,924,704; Aug. 29.

Bartholomew, Tracy. (See Sem, Mathias O., assignor.)

Bartlett, Frederick P., assignor to The Magnavox Company, Chicago, Ill. Loud speaker mounting. 1,924,591; Aug. 29.

Bates, George G., Kingston, N. Y. Fruit grader and cleaner. 1,924,098; Aug. 29.

Bates, Joseph D., West Springfield, Mass. Brush. 1,924,147; Aug. 29.

Batrack, Eugene, and J. F. Fantauzzo, Rochester, N. Y. Headlight attachment. 1,924,101; Aug. 29.

Baum, Isaac A., Chicago, Ill. Plaster terminal. 1,924,971; Aug. 29.

Bayley, William D., Springfield, Ohio. House for brooding. 1,924,480; Aug. 29.

Beach, George E. (See Beebe, Fredrick E., assignor.)

Beasley, Ira V. (See Leriche, W., and Beasley.)

Beasley, Thomas, London, England. Valve for inflation purposes. 1,924,634; Aug. 29.

Beck, Allen F., Columbus, Ohio. Grave Vault or similar article. Des. 90,563; Aug. 29.

Beckert, Carl J. (See Harris, B. R., Beckert, and Kritchevsky.)

Beckert, Carl J. (See Kritchevsky, W., Harris, and Beckert.)

Beckert, Carl J., W. Kritchevsky, and B. R. Harris, Chicago, Ill. Stabilized egg product. 1,924,972; Aug. 29.

Beebe, Fredrick E., Willowick, assignor to G. E. Beach, Cleveland, Ohio. Automatic control valve. 1,924,177; Aug. 29.

Beede, Herbert G. (See Beede, Robert J., and H. G.)

Beede, Robert J., and H. G. Beede, Pawtucket, R. I. Spring cushion. 1,924,973; Aug. 29.

Beery, John W., Roeamond, Calif. Pipe and nut wrench. 1,924,898; Aug. 29.

Behan, Thomas W., assignor to Nineteen Hundred Corporation, Binghamton, N. Y. Wringer. 1,924,535; Aug. 29.

Bell Telephone Laboratories, Incorporated. (See Buckley, Oliver E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Cousins, Van M., assignor.)

Bell Telephone Laboratories, Incorporated. (See Ferrell, Enoch B., assignor.)

Bellanca, Giuseppe M., New Castle, Del. Landing gear assembly. 1,924,461; Aug. 29.

Belous, Mildred, et al. (See Rosenwald, Isidor, assignor.)

Bendix Brake Company. (See Andres, William J., assignor.)

Bendix Brake Company. (See Babel, Raymond A., assignor.)

Bendix Brake Company. (See Bendix, V., and Dodge, assignors.)

Bendix Brake Company. (See LaBrie, Ludger E., assignor.)

Bendix Brake Company. (See McDonald, Eugene G., assignor.)

Bendix Brake Company. (See Norton, Raymond J., assignor.)

Bendix Brake Company. (See Van Buskirk, Robert N., assignor.)

Bendix Stromberg Carburetor Company. (See Chandler, Milton E., assignor.)

Bendix, Vincent, Chicago, Ill., and A. Y. Dodge, assignors to Bendix Brake Company, South Bend, Ind. Brake. 1,924,592; Aug. 29.

Benford, Elney H., Cleveland, Ohio. Chuck for holding bar stock and the like. 1,924,301; Aug. 29.

Benjamin, Harry S., Utica, N. Y. Vending machine. 1,924,102; Aug. 29.

Bennett, Joshua H., Rock Island, Ill. Stereoscope casing. Des. 90,564; Aug. 29.

Bennett, Rexford P., assignor to Clover Leaf Manufacturing Co., Honesdale, Pa. Bracket. 1,924,830; Aug. 29.

Benson, George O., assignor to Talarico Bros., Niagara Falls, N. Y. Toy. 1,925,067; Aug. 29.

Berkenhoff & Drebes A. G. (See Diehl, Johannes F., assignor.)

Berkshier, George F., and C. H. Schmidgall, Peoria, Ill. Battery terminal clamp. 1,924,482; Aug. 29.

Berluti, Ercole R., Saginaw, Mich. Rotatable connecter. 1,924,302; Aug. 29.

Bernert, George, Milwaukee, Wis. Pneumatic conveyer. 1,924,675; Aug. 29.

Berthold, Erich. (See Kuns, M. A., Koeberle, and Berthold.)

Berwind-White Coal Mining Company, The. (See Breit, E., and Ford, assignors.)

Beryllium Development Corporation. (See Smith, Joseph K., assignor.)

Bethlehem Steel Company. (See Lehr, Charles E., assignor.)

Bethlehem Steel Company. (See Lewis, Roy A., assignor.)

Bickell, Charles H., trustee. (See Sparks, Stanley W., assignor.)

Binns, George W., assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machine. 1,924,593; Aug. 29.

Bird, George H., Brooklyn, N. Y. Spool. 1,925,042; Aug. 29.

Birdseye, Clarence, Gloucester, Mass., assignor, by mesne assignments, to Frosted Foods Company, Inc., Dover, Del. Consumer package of meat products. 1,924,903; Aug. 29.

Bisschop, Eelco, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Squirrel-cage rotor. 1,924,103; Aug. 29.

Bixby, Walter. (See Hathaway, E. F., and Bixby.)

Bixby, Walter, Boston, Mass. Axminster loom. 1,924,904; Aug. 29.

Black, Julia, assignor to Cheney Brothers, New York, N. Y. Textile fabric. Des. 90,565; Aug. 29.

Bladin, Walter C. (See Wardwell, H. F., and Bladin.)

Blank, Ferdinand, Mount Clemens, Mich. Air vent valve. 1,924,304; Aug. 29.

Blazek Cold Storage Door Company. (See Anderson, Christopher J., assignor.)

Bleach Process Company. (See Wheeler, F. G., and Heller, assignors.)

Blinn, Glenn E., New York, N. Y., assignor to H. S. Walker, Ardmore, Pa. Duct support. 1,924,805; Aug. 29.

Blood, Louis H., and C. W. Goodrich, assignors to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Combined automatic machine tool. 1,924,594; Aug. 29.

Blose, Thomas G., Coplay, Pa. Engine tester. 1,924,975; Aug. 29.

Blum, Joseph K., Scarsdale, N. Y. Apparatus for subdividing material. 1,924,536; Aug. 29.

Blume, William A., Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y. Friction brake. 1,924,345; Aug. 29.

Blumenthal, Maurice, Brooklyn, N. Y. Column pile and method. 1,924,346; Aug. 29.

Blustein, Abraham, Washington, D. C. Artificial sponge for scouring metal and enamel ware. 1,924,974; Aug. 29.

Blystone Manufacturing Company, The. (See Jadgmann, K. E. W., and Bonter, assignors.)

Bock, Walter, and E. Tschunkur, Cologne-Mulheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Artificial rubber. 1,924,227; Aug. 29.

Bockman, George A., assignor to Universal Oil Products Company, Chicago, Ill. Valve locking means. 1,924,831; Aug. 29.

Boddie, Clarence A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Phase shifting reactor. 1,924,303; Aug. 29.

Bodor, Andrew. (See Koch, L. B., and Bodor.)

Bögemann, Max. (See Orthner, L., and Bögemann.)

Bögemann, Max. (See Orthner, L., Zaucker, and Bögemann.)

Bollmann, Hermann, and W. Engelmann, Hamburg, Germany. Recovery of sulphur from gas purifying materials. 1,925,027; Aug. 29.

Bommer, Emil, Brooklyn, N. Y. Spring hinge and adjustable leaf. 1,924,537; Aug. 29.

Bonter, Oscar H. (See Jadgmann, K. E. W., and Bonter.)

Bossard, Gisbert L., assignor to General Kontrolar Company, Inc., Dayton, Ohio. Chime. 1,924,895; Aug. 29.

Bossart, Juan. (See Rivas, R. L., and Iribarne, assignors.)

Bostroem, August, Brooklyn, N. Y., assignor, by mesne assignments, to Faries Manufacturing Company, Decatur, Ill. Light filter. 1,924,538; Aug. 29.

Botwright, Ronald C., New Malden, England. Bedstead. 1,924,732; Aug. 29.

Boulitte, Georges C., Paris, France. Manometric apparatus. 1,924,104; Aug. 29.

Bourdet, André P. E., Triel-sur-Seine, France. Heating substances such as gypsum in air currents. 1,924,905; Aug. 29.

Bower, George D., Columbia Heights, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Protecting means for rectifier-transformers. 1,924,906; Aug. 29.

Bower, George D., Columbia Heights, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electrical control system. 1,924,907; Aug. 29.

Bowles, Hardy, and J. W. McClintock, assignors to E-Z Reach Paper Cutter Corporation, Ltd., Los Angeles, Calif. Roll paper holder. 1,924,088; Aug. 29.

Boyd, Thomas A. (See Lovell, W. G., and Boyd.)

Bozel Maletra Societe Industrielle de Produits Chimiques. (See Demarest, Jules E., assignor.)

Brace, Porter H. (See Shirk, W. B., Brace, and Goin.)

Bradley, Constantine, Nashville, Tenn. Pneumatic inner tube. 1,924,148; Aug. 29.

Bradley, Harry L., assignor, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis. Electrical resistor. 1,924,105; Aug. 29.

Bragg, Gilbert A., Pittsburgh, Pa., assignor to The Koppers Company of Delaware. Obtaining pure carbon dioxide. 1,924,178; Aug. 29.

Brake, George U., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind. Liquid dispensing apparatus. 1,925,043; Aug. 29.

Brandt, Ralph H., assignor to Universal Oil Products Company, Chicago, Ill. Protective lining for vessels. 1,924,882; Aug. 29.

Braunsdorf, Otto. (See Eckert, W., and Braunsdorf.)

Breding, Ralph H., Detroit, Mich. Toy duck. Des. 90,566; Aug. 29.

Breding, Ralph H., Detroit, Mich. Toy rooster. Des. 90,567; Aug. 29.

Breding, Ralph H., Detroit, Mich. Toy dog. Des. 90,568; Aug. 29.

Breding, Ralph H., Detroit, Mich. Toy duck. Des. 90,569; Aug. 29.

Breding, Ralph H., Detroit, Mich. Toy rabbit. Des. 90,570; Aug. 29.

Breding, Ralph H., Detroit, Mich. Toy monkey. Des. 90,571; Aug. 29.

Breisky, John V., Pittsburgh, and T. Draper, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. Fuel burner system. 1,924,304; Aug. 29.

Breit, Edward, and J. H. Ford, Leslie, W. Va., assignors to The Berwind-White Coal Mining Company, Windber, Pa. Machine for cutting coal. 1,924,847; Aug. 29.

Brieger, Ferdinand, Berlin-Johannisthal, Germany, assignor to General Electric Company. Heat treating apparatus. 1,925,028; Aug. 29.

Briggs, Arthur J., assignor to Briggs Loom Corporation, Syracuse, N. Y. Loom. 1,925,044; Aug. 29.

Briggs Loom Corporation. (See Briggs, Arthur J., assignor.)

Briggs Manufacturing Company. (See Ross, F. N., and Everitt, assignors.)

Briggs Manufacturing Company. (See Ross, F. N., and Johnson, assignors.)

Britton, Samuel F., Covington, Ky. Marker and flower holder. 1,924,149; Aug. 29.

Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Sheet feeding mechanism. 1,924,908; Aug. 29.

Brock, Edward P., Danvers, Mass. Blow-off deheater for boilers. 1,924,738; Aug. 29.

Brock, Frank P. (See Redman, L. V., Weith, and Brock.)

Brown, Albert C., and E. E. Brown, assignor to The Chicago Faucet Company, Chicago, Ill. Combination bath fixture. 1,924,771; Aug. 29.

Brown, Clara B., executrix. (See Brown, Horace P., assignor.)

Brown, Clara B., executrix. (See Brown, H. P., and Anderson.)

Brown Company. (See Richter, George A., assignor.)

Brown Company. (See Schur, Milton O., assignor.)

Brown, David B., Bellingham, Wash., assignor to Wahl Clipper Corporation, Sterling, Ill. Hair clippers. 1,924,676; Aug. 29.

Brown, Earl E. (See Brown, Albert C., and E. E.)

Brown, Eugene P. (See Schaeffer, W. J., Watts, Brown, and Wilson.)

Brown, Horace P., deceased, Oakland, Calif., Clara B. Brown, executrix. Draft shield. 1,924,705; Aug. 29.

Brown, Horace P., deceased, Oakland, and E. D. Anderson, Alameda, said Anderson assignor to said Brown, Clara D. Brown, executrix. Window operating mechanism. 1,924,706; Aug. 29.

Brown, Lucian H., Kokomo, Ind., assignor to Haynes Stellite Company. Centrifugal casting machine. 1,924,976; Aug. 29.

Brown, Robert B., Great Neck, assignor to American Manufacturing Company, Brooklyn, N. Y. Chair. Des. 90,572; Aug. 29.

Brown, Robert N., assignor to Packard Motor Car Company, Detroit, Mich. Brake testing apparatus. 1,924,883; Aug. 29.

Brown, Robert R., Upper Montclair, N. J., assignor to Outserts, Inc., New York, N. Y. Folder or booklet to be attached to a can or the like. 1,924,909; Aug. 29.

Brown, Roderick F., Altus, Okla. Tonsillectome. 1,924,348; Aug. 29.

Brown, Russell G., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Making tubular materials. 1,924,734; Aug. 29.

Brown, Stanley, Garden City, N. Y. Smoking pipe. 1,924,539; Aug. 29.

Brown, William, assignor to McAdoo & Allen Welting Company, Quakertown, Pa. Welt for shoes. 1,925,045; Aug. 29.

Brown, William A., Philadelphia, Pa. Shock absorbing wheel. 1,924,269; Aug. 29.

Browne, Cecil O., Ealing Common, London, England, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Thermionic amplifier. 1,924,268; Aug. 29.

Browne, James H., East Liverpool, Ohio. Hose nozzle. 1,924,150; Aug. 29.

Brubach, Theodore M. (See Hibner, D. E., jr., and Brubach.)

Bruce, E. L., Company. (See Gray, Milton, assignor.)

Bruce, E. L., Company. (See Livesey, William F., assignor.)

Brunner, John, Chicago, Ill. Heat treatment of steel rails. 1,925,029; Aug. 29.

Buckius, Albert O., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Roller bearing journal box. 1,924,270; Aug. 29.

Buckley, Oliver E., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Submarine cable loading coil. 1,924,106; Aug. 29.

Budd, Edward G., Manufacturing Company. (See Ragsdale, Earl J. W., assignor.)

Budlong, Robert D., assignor to United Autographic Register Co., Chicago, Ill. Autographic register. Des. 90,573; Aug. 29.

Buffalo Pressed Steel Company. (See Haas, L. L., and Starkweather, assignors.)

Buffalo Wire Works Co. (See Scheeler, Charles A., assignor.)

Bumington, Malcolm, Roselle Park, assignor to Lea Fabrics, Inc., Newark, N. J. Making a laminated fabric. 1,924,635; Aug. 29.

Buhler, Philip, assignor of one-half to F. Buhler, New York, N. Y. Reel for motion picture machines. 1,924,977; Aug. 29.

Buhler, Frank. (See Buhler, Philip, assignor.)

Bull, Arthur A., assignor to Handy Governor Corporation, Detroit, Mich. Governor control. 1,924,228; Aug. 29.

Bullis, Vera M., Winchester, N. H. Mop. 1,924,978; Aug. 29.

Burgess, Lothian M. (See Stoddard, W. B., Geiger, and Burgess.)

Burgess, Louis, New York, N. Y. Manufacture of beryllium and beryllium alloys. 1,924,151; Aug. 29.

Burke, James P., assignor to Mack Molding Co., Wayne, N. J. Hollow article. 1,925,030; Aug. 29.

Burket, Russell C., Pottsville, Pa. Crack filler. 1,924,636; Aug. 29.

Burkle, Robert, North Bergen, N. J., assignor of one-half to B. Merrifield, New York, N. Y. Thermostat. 1,924,540; Aug. 29.

Burns, Erwin. (See Wickersham, H. P., and Burns.)

Buxton, Warner R., Longmeadow, Mass. Flexible pocket receptacle. 1,924,910; Aug. 29.

Byrd, J. L., et al. (See Patterson, Augustus M., assignor.)

Byrd, J. W., et al. (See Patterson, Augustus W., assignor.)

Bysahe, Ernest T., and R. R. Finn, assignors to Jones & Lamson Machine Company, Springfield, Vt. Holding chasers. 1,924,735; Aug. 29.

Bystricky, Joseph, assignor to Alemite Corporation, Chicago, Ill. Pump for lubricating apparatus. 1,924,707; Aug. 29.

C-S Engineering Company. (See Coffin, Joel S., jr., assignor.)

C-S Engineering Company. (See Schellens, Eugene L., and C. A., assignors.)

Cadsene, Ernest, Englewood Cliffs, N. J. Fabric and treating the same. 1,924,677; Aug. 29.

Calcott, William S., Penns Grove, and F. B. Downing, Carneys Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Acetylene polymers and making same. 1,924,979; Aug. 29.

Calumet Refining Company. (See Jester, M. B., and Smith, assignors.)

Calumet Steel Company. (See Carrel, Frank G., assignor.)

Cannon, Hugh H., assignor to Cannon-Prutsman Treating Processes, Ltd., Los Angeles, Calif. Neutralising and sweetening gasoline. 1,924,911; Aug. 29.

Cannon-Prutsman Treating Processes, Ltd. (See Cannon, Hugh H., assignor.)

Cardwell Westinghouse Company. (See Sproul, Donald F., assignor.)

Carpenter, Gilbert B., Elizabeth, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of carboxylic acids. 1,924,763; Aug. 29.

Carpenter, Gilbert B., Bellemoor, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of carboxylic acids. 1,924,766; Aug. 29.

Carpenter, Gilbert B., Bellemoor, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of carboxylic acids. 1,924,767; Aug. 29.

Carpenter, Gilbert B., Bellemoor, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of carboxylic acids. 1,924,768; Aug. 29.

Carpenter, Gilbert B., Bellemoor, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of carboxylic acids. 1,924,769; Aug. 29.

Carpenter, Webster L., Norfolk, Va. Discharge mechanism for fluid under high pressure. 1,924,637; Aug. 29.

Carrel, Frank G., Western Springs, assignor, by mesne assignments, to Calumet Steel Company, Chicago, Ill. Fence construction. 1,924,834; Aug. 29.

Carswell, Thomas S., Kirkwood, Mo., assignor, by mesne assignments, to Monsanto Chemical Company. Plastic and resinous compositions of matter and making same. 1,924,896; Aug. 29.

Cawley, Aloysius J., Pittston, Pa. Television apparatus. 1,925,089; Aug. 29.

Cederlund, Albert, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutting shuttle. 1,924,179; Aug. 29.

Celluloids Limited. (See Nixon, Thomas M., assignor.)

Cement Gun Company. (See Lerich, W., and Beasley, assignors.)

Central Foundry Company. (See Saine, L. W., and Hansen, assignors.)

Chalker, Albert R. (See Lower, N. M., Chalker, and Bailey.)

Champion Coated Paper Company, The. (See Knapp, Theodore E., jr., assignor.)

Champney, Hubert H., Succasunna, N. J., assignor to Hercules Powder Company, Wilmington, Del. Explosive. 1,924,912; Aug. 29.

Chandler, Milton E., assignor to Bendix Stromberg Carburetor Company, South Bend, Ind. Carburetor. 1,924,595; Aug. 29.

Chapman, Frank D., Berlin, Wis. Can cooling and transferring mechanism. 1,924,271; Aug. 29

Chapman, Penrose E., St. Louis, Mo., and C. L. Chittenden, New York, N. Y.; said Chittenden assignor to said Chapman. Growler type testing device. 1,924,913; Aug 29.

Chappell, Francis R. (See Christiansen, W. G., and Chappell.)

Charavay, Frederick, assignor of one-half to Hartzell Industries, Inc., Piqua, Ohio. Adjustable pitch propeller. 1,924,849; Aug. 29.

Chavanne, Louis, Paris, France. Solid fuel distilling apparatus. 1,924,980; Aug. 29.

Cheney Brothers. (See Black, Julia, assignor.)

Chicago Faucet Company, The. (See Brown, Albert C. and E. E., assignors.)

Chicago Flexible Shaft Company. (See Jeppsson, Ivar, assignor.)

Chipman Chemical Company. (See Chipman, Ralph N., assignor.)

Chipman, Ralph N., assignor to Chipman Chemical Company, Inc., Bound Brook, N. J. Zinc chlorate weed killer. 1,924,107; Aug. 29.

Chrétien, Henri, Paris, France. Filter-amplifier combination. 1,924,897; Aug. 29,

Chittester, Robert S., Brookville, Pa. Tube for pneumatic tires. 1,925,031; Aug. 29.

Chittenden, Charles L. (See Chapman, P. E., and Chittenden.)

Christiansen, Walter G., Bloomfield, and F. R. Chappell, Passaic, N. J., assignors to E. R. Squibb & Sons, New York, N. Y. Packaging of edible oils. 1,924,708; Aug. 29.

Christman, John M., assignor to Packard Motor Car Company, Detroit, Mich. Striping instrument. 1,924,273; Aug. 29.

Chrysler Corporation. (See Hughes, James W., assignor.)

Chrysler Corporation. (See Kincaid, Russell M., assignor.)

Chrysler Corporation. (See Lee, Roger K., assignor.)

Chrysler Corporation. (See Marker, Charles B., assignor.)

Chrysler Corporation. (See Tea, Clark A., assignor.)

Cincinnati Grinders Incorporated. (See Addison, Tom, assignor.)

Cincinnati Grinders Incorporated. (See Binns, George W., assignor.)

Cincinnati Milling Machine Company, The. (See Blood, L. H., and Goodrich, assignors.)

Cincinnati Milling Machine Company, The. (See Isler, Herman B., assignor.)

Circle F Mfg. Co. (See Petersen, Carl M., assignor.)

Clapp, Otis, & Son, Inc. (See Stacy, John E., assignor.)

Clark, Andrew B., assignor of one-half to Judge R. Lake, Thomasville, Ga. Sewing machine attachment. 1,924,961; Aug. 29.

Clark, J. L., Manufacturing Co. (See Mills, Wallace C., assignor.)

Clark, Percy B., Ploesti, Rumania. Wire rope or cable making machine. 1,924,772; Aug. 29.

Claus, Walter, and E. Schmidt, assignors to Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany. Separating cellulose or the like from treating liquid. 1,924,483; Aug. 29.

Clawson, Monroe S., Upper Montclair, N. J. Intermediate pouring unit. 1,924,638; Aug. 29.

Clemmons, Ralph W., Chicago, Ill., assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y. Reel. 1,924,541; Aug. 29.

Close, Ford C., New York, N. Y. Shoe making. 1,924,835; Aug. 29.

Clover Leaf Manufacturing Co. (See Bennett, Rexford P., assignor.)

Coffin, Joel S., jr., assignor to C-S Engineering Company, Englewood, N. J. Locomotive feed water systems. 1,924,272; Aug. 29.

Cole, Sandford S., Pittsburgh, Pa., assignor to The Koppers Company of Delaware. Solid fuel. 1,924,180; Aug. 29.

Collins & Aikman Corporation. (See Erkes, Joseph, assignor.)

Colonial Radio Corporation. (See Loewy, Raymond G. F., assignor.)

Compagnie Nationale de Matieres Colorantes & Manufactures de Produits Chimiques du Nord Reunies Etablissements Kuhlmann. (See Sack, Ernest A., assignor.)

Comstock, Daniel F., Boston, Mass., assignor, by mesne assignments, to Stator Refrigeration, Inc. Absorption system. 1,924,914; Aug. 29.

Comstock-Wescott, Inc. (See Whitney, Lyman F., assignor.)

Coney, David M. and Z. T., San Francisco, Calif. Toothbrush. 1,924,152; Aug. 29.

Coney, Zachary T. (See Coney, D. M. and Z. T.)

Conn, C. G., Ltd. (See Greenleaf, Leland B., assignor.)

Connelly, Katherine I. (See Hanson, Anton M., assignor.)

Conrad, Nicholas J., Winnetka, assignor, by mesne assignments, to Schweitzer & Conrad, Inc., Chicago, Ill. Fuse. 1,924,484; Aug. 29.

Container Corporation of America. (See Barker, Charles P., assignor.)

Container Corporation of America. (See Walter, Harrison B., assignor.)

Conway, Alfred A., Cincinnati, Ohio. Clutch. 1,924,108; Aug. 29.

Cook, Willard G., Forest Hills, and H. D. James, Edgewood, Pa., assignors to Westinghouse Electric and Manufacturing Company. Control apparatus. 1,924,306; Aug. 29.

Cooke, Norman. (See Leben, H., and Cooke.)

Corcoran, Lewis L., Sellersville, Pa., assignor to United States Gauge Company, New York, N. Y. Switch mechanism. 1,924,639; Aug. 29.

Cordell, John U., Renton, Wash. Trolling lure. 1,924,350; Aug. 29.

Corell, Martin. (See Kränzlein, G., Corell, and Diefenbach.)

Corell, Martin. (See Kränzlein, G., Corell, and Dohle.)

Cornell Securities Corporation. (See Vick, Alvin C., assignor.)

Corning Glass Works. (See Rising, Walter H., assignor.)

Cosmic Arts, Inc. (See Lambert, Arthur, assignor.)

Coulbeaux, Charles G., Levallois-Perret, France. Packing case. 1,924,709; Aug. 29.

Cousins, Van M., Lyndhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Amplifier. 1,924,836; Aug. 29.

Craig, Hal, Hollywood, Calif. Radioreceiver. 1,924,485; Aug. 29.

Crause, William, Vauxhall, N. J. Electrician's tool. 1,924,837; Aug. 29.

Creed and Company. (See Griffith, Ronald G., assignor.)

Crichton, Leslie N., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company. Relay system. 1,924,307; Aug. 29.

Croessant, George F., Wyomissing, Pa. Extension for socket wrenches. 1,924,089; Aug. 29.

Crollius, Fred J., and R. W. Stuler, Pittsburgh, Pa., assignor to Stainless Steel Corporation. Stainless steel. 1,924,153; Aug. 29.

Crompton & Knowles Loom Works. (See Cederlund, Albert, assignor.)

Crompton & Knowles Loom Works. (See Gordon, Albert A., assignor.)

Crompton & Knowles Loom Works. (See Howe, W. C., and Payne, assignors.)

Crompton & Knowles Loom Works. (See Irons, George A., jr., assignor.)

Crompton & Knowles Loom Works. (See Payne, Oscar V., assignor.)

Crouse, George B., New York, N. Y., assignor, by mesne assignments, to Potter, Pierce & Scheffler, Washington, D. C. Filtering electric currents. 1,924,486; Aug. 29.

Cruse, Frederick C., Knoxville, Tenn. Closure cap. 1,924,308; Aug. 29.

Curtiss, Nathan A., Ridgewood, N. J., assignor to The Hills Brothers Company, New York, N. Y. Apparatus for pitting fruit. 1,924,670; Aug. 29.

Cutler-Hammer, Inc. (See Tregoning, William C., assignor.)

Cutler, Roger W., Needham, Mass. Roofing and manufacturing same. 1,924,181; Aug. 29.

Cutter, George A., Dedham, assignor, by mesne assignments, to Thomson-Gibb Electric Welding Company, Lynn, Mass. Apparatus for electric welding. 1,924,915; Aug. 29.

Daley, Charles A., Hornell, assignor to Air Reduction Company, Incorporated, New York, N. Y. Reforming rail ends. 1,924,838; Aug. 29.

Daley, Charles A., Hornell, assignor to Air Reduction Company, Incorporated, New York, N. Y. Treating railroad track members. 1,924,846; Aug. 29.

Dal Maso, Joseph, Washington, D. C. Ash tray. Des. 90,574; Aug. 29.

Danks, George I. (See Ruffner, Edward W., assignor.)

Daprato Statuary Company. (See Mariotti, Josef J., assignor.)

Davenport, Edmund S. (See Bain, E. C., and Davenport.)

Davis, Charles H., jr., assignor to Delco-Remy Corporation, Anderson, Ind. Engine starting apparatus. 1,924,229; Aug. 29.

Davis, Harry C., Pittsburgh, Pa. Dog leash. 1,924,596; Aug. 29.

Davis, James H., assignor to Moraine Products Company, Dayton, Ohio. Making bushings from strip metal. 1,924,230; Aug. 29.

Davis, Lewis H., assignor to Delco Products Corporation, Dayton, Ohio. Shock absorber. 1,924,231; Aug. 29.

Davis, Philip W., Cambridge, Mass. Refining lead. Re18,980; Aug. 29.

Debuch, Carl P., Frankfort-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y. Rotary furnace. Re18,929; Aug. 29.

De Forest Radio Company. (See Du Mont, Allen B., assignor.)

De Forest Radio Company. (See Zimber, R. M., and Hawthorne, assignors.)

Deknatel, J. A., & Son, Inc. (See Neifert, Raymond E., assignor.)

De Laval Separator Company, The. (See Flowers, Alan E., assignor.)

De Laval Separator Company, The. (See Hulbert, John L., assignor.)

Delco Products Corporation. (See Davis, Lewis H., assignor.)

Delco-Remy Corporation. (See Davis, Charles H., jr., assignor.)

Delco-Remy Corporation. (See Lewellen, Albert R., assignor.)

Delco-Remy Corporation. (See Norviel, Harry E., assignor.)

Delco Remy Corporation. (See Shippy, Leo C., assignor.)

De Lisle, Harold L., Chicago, Ill. Container for relatively large sheets. 1,924,109; Aug. 29.

De Liso, Vincent, Astoria, assignor to Palter-De Liso Inc., New York, N. Y. Shoe and making same. 1,924,542; Aug. 29.

Dellinger, Martin C. (See Kulp, H. W., and Dellinger.)

Demant, Jules E., Cuise-Lamotte, assignor to Bosel Maletra Societe Industrielle de Produits Chimiques, Paris, France. Manufacture of dichromates. 1,924,710; Aug. 29.

Dessau, Einar, Copenhagen, Denmark. Producing and reproducing films for the reproduction of picture films in combination with sound films (Talking films). 1,924,110; Aug. 29.

Dessureau, Joseph T. (See Flanders, A. M., and Dessureau.)

Destel, Richard M. (See Drake, Alfred E., assignor.)

Detroit Steel Products Company. (See Frasier, Kenneth S., assignor.)

Detroit Trust Company. (See Fehr, Roy B., assignor.)

De Witt, William J., assignor to Shoe Form Co., Inc., Auburn, N. Y. Fastener setting machine. 1,924,982; Aug. 29.

Diamond Chain and Manufacturing Company. (See Mize, George G., assignor.)

Diamond, Leonard. (See Hall, A., and Diamond.)

Diefenbach, Ernst. (See Kränzlein, G., Corell, and Diefenbach.)

Diehl, Johannes F., Herborn, assignor to the Firm of Berkenhoff & Dresbes A. G., Asslar, near Wetzlar-on-the-Lahn, Germany. Method and machinery for drawing wire. 1,924,859; Aug. 29.

Dietrich, Clarence W., Saginaw, Mich. Vehicle headlight. 1,924,983; Aug. 29.

Dill Manufacturing Company, The. (See Williamson, Arthur P., assignor.)

Doddridge, Walter H., Lakewood, Ohio. Switch operating mechanism. 1,924,961; Aug. 29.

Dodge, Adiel Y. (See Bendix, V., and Dodge.)

Doermann, Albert J., assignor to Titan Abrasives Company, Chicago, Ill. Abrasive disk. 1,924,773; Aug. 29.

Doherty Research Company. (See Merley, S. R., and Spring, assignors.)

Doherty Research Company. (See Merley, Sylvan R., assignor.)

Doherty Research Company. (See Morgan, John D., assignor.)

Doherty Research Company. (See Spring, Otto, assignor.)

Dohle, Wilhelm. (See Kränzlein, G., Corell, and Dohle.)

Dominion Engineering Works Limited. (See Russell, Andrew N., assignor.)

Doutt, Owen, assignor to General Spring Bumper Corporation, Detroit, Mich. Abrasive applying machine. 1,924,487; Aug. 29.

Devjikov, Alexander D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Shunt phase-balancer. 1,924,309; Aug. 29.

Dow Chemical Company, The. (See Grebe, J. J., and Dow, assignors.)

Dow, Willard H. (See Grebe, J. J., and Dow.)

Dowd, Charles W., Highland Park, N. J., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing machine. 1,924,282; Aug. 29.

Downing, Frederick B. (See Calcott, W. S., and Downing.)

Drake, Alfred E., assignor of one-half to R. M. Destel, Los Angeles, Calif. Applicator. 1,924,916; Aug. 29.

Drake, John L., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Glass surfacing tool. 1,924,597; Aug. 29.

Draper Corporation. (See Hyde, Joseph, assignor.)

Draper, Thomas. (See Breisky, J. V., and Draper.)

Draves, Rudolph, Bonners Ferry, Idaho. Lumbago belt. 1,924,640; Aug. 29.

Dreher, Carl, Los Angeles, Calif., assignor to Radio-Keith-Orpheum Corporation. Microphone control. 1,924,679; Aug. 29.

Dreyfus, Camille, New York, N. Y. Ultraviolet light transparent glass. 1,924,898; Aug. 29.

Droste, Hans W., Nuremburg, and H. Kirchdörfer, Malmsbach, near Nuremburg, Germany. Compensation of capacity unbalances in the groups of cores of telegraph and telephone cables. 1,924,840; Aug. 29.

Dryer, Charles G. (See Lowry, C. D., jr., and Dryer.)

Du Bois, Horace. (See John, H., Le Febvre, and Du Bois.)

Du Mont, Allen B., Bloomfield, assignor to De Forest Radio Company, Jersey City, N. J. Filament. 1,924,543; Aug. 29.

Du Mont, Allen B., Bloomfield, assignor to De Forest Radio Company, Jersey City, N. J. Rectifier device. 1,924,544; Aug. 29.

Dumont, Ray, New York, N. Y. Doll. Des. 90,575; Aug. 29.

Dunham, Carlton R. (See Sandeman, E. K., Thomas, and Dunham.)

Dunlop, James, Park Ridge, Ill., assignor to Westinghouse Electric Elevator Company. Elevator safety brake. 1,924,310; Aug. 29.

Dunner, Edwin M., Polk, Ohio. Fuel heater. 1,925,032; Aug. 29.

Dupeyron, Auguste, Paris, France. Safety razor. 1,924,641; Aug. 29.

Du Pont, E. I., de Nemours & Company. (See Calcott, W. S., and Downing, assignors.)

Du Pont, E. I., de Nemours & Company. (See Carpenter, Gilbert B., assignor.)

Du Pont, E. I., de Nemours & Company. (See Larson, A. T., and Vail, assignors.)

Du Pont, E. I., de Nemours & Company. (See Perkins, Melvin A., assignor.)

Du Pont, E. I., de Nemours & Company. (See Skilling, J. M., and Teeple, jr., assignors.)

Du Pont, E. I., de Nemours & Company. (See Teeple, Oliver J., jr., assignor.)

Du Pont, E. I., de Nemours & Company. (See Vail, Walter E., assignor.)

Du Pont, E. I., de Nemours & Company. (See Woodhouse, John C., assignor.)

Dupuy, Louis E. (See Jennings, C. S., and Dupuy.)

E-Z Reach Paper Cutter Corporation. (See Bowles, H., and McClintock, assignors.)

Eames, William F. (See Mattingly, H. W., and Eames.)

Eastman, Fred C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe rest mechanism. 1,924,233; Aug. 29.

Eastman, Ivan L., assignor to The Aro Equipment Corporation, Bryan, Ohio. Grease gun piston and reservoir latch. 1,924,841; Aug. 29.

Eastman Kodak Company. (See Mihalyi, J., and Teague, assignors.)

Eastman Kodak Company. (See Teague, Walter D., assignor.)

Ebner, Alfred J., assignor to Freyn Engineering Company, Chicago, Ill. Blast furnace. 1,924,842; Aug. 29.

Eckert, Wilhelm, and O. Braunsdorf, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Mono-molecular condensation product of 1.4.5.8-naphthalene-tetracarboxylic acid and preparing it. 1,924,090; Aug. 29.

Edelmann, E., & Co. (See Edelmann, Leo, assignor.)

Edelmann, Leo, assignor to E. Edelmann & Co., Chicago, Ill. Glass barrel for hydrometers. 1,924,917; Aug. 29.

Edenburg, Louis, New York, N. Y. Electrical condenser. 1,924,711; Aug. 29.

Edwards, Herbert C., assignor to Packard Motor Car Company, Detroit, Mich. Internal combustion engine. 1,924,843; Aug. 29.
Edwards, Herbert C., assignor to Packard Motor Car Company, Detroit, Mich. Internal combustion engine. 1,924,847; Aug. 29.
Edwards, Russell T., assignor to Signode Steel Strapping Company, Chicago, Ill. Sealing tool. 1,924,844; Aug. 29.
Edwards, Russell T., assignor to Signode Steel Strapping Company, Chicago, Ill. Sealing tool. 1,924,845; Aug. 29.
Edwards, Walter, Kokomo, Ind. Sidewalk sign. 1,924,852; Aug. 29.
Eggleston, Smith, assignor to Standard Conveyor Company, St. Paul, Minn. Conveyer system. 1,924,488; Aug. 29.
Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for cracking oil. 1,924,848; Aug. 29.
Ehrenreich, Messr. & Cie. (See Faudi, Fritz, assignor.)
Eisenhauer, Charles B. (See Ferguson, W. T., and Eisenhauer.)
Eisenhour, Bert E., Aurora, assignor of one-half to George Fabyan, Geneva, Ill. Sound meter. 1,924,091; Aug. 29.
Eisenman, Arthur A., Manitowoc, Wis. Hose coupling. 1,924,712; Aug. 29.
Electrolux Servel Corporation. (See Bäckström, Sigurd M., assignor.)
Elektrowerke Aktiengesellschaft. (See Krämer, Bernhard, assignor.)
Elevator Supplies Company. (See Smith, Frank H., assignor.)
Ellis, Fielding S. (See Trout, H. N., and Ellis.)
Empire Silver & Chrome Corp. (See Schnitzer, Louis M., assignor.)
Empire Trust Company, trustee. (See Atkinson, Ralph L., assignor.)
Emsco Derrick & Equipment Company. (See Sawyer, Wilfred D., assignor.)
Emsco Derrick & Equipment Company. (See Smith, D. M., and Tremolada, assignors.)
Engelmann, Wilhelm. (See Bollmann, H., and Engelmann.)
Engert, George A., Chicago, and G. B. Gibson, Evanston, assignors to Sonbert Machine Company, Chicago, Ill. Paper machine and making paper. 1,924,154; Aug. 29.
Eremeeff, Ivan, Philadelphia, Pa. Synthetic electrical musical system. 1,924,713; Aug. 29.
Erickson, Arvid M., assignor to Barron-Gray Packing Company, San Jose, Calif. Stemming grapes. 1,924,111; Aug. 29.
Erie Malleable Iron Company. (See Vanderveer, Jewell W., assignor.)
Erkes, Joseph, assignor to Collins & Aikman Corporation, Philadelphia, Pa. Fabric. Des. 90,576; Aug. 29.
Esleeck Manufacturing Company. (See McCorkindale, William P., assignor.)
Esmarch, Eilhelm, Berlin-Halensee, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Coil for induction furnaces. 1,924,680; Aug. 29.
Ethyl Gasoline Corporation. (See Bartholomew, Earl, assignor.)
Eustis, Warner, Newton, assignor to The Kendall Company, Walpole, Mass. Elastic fabric. 1,924,598; Aug. 29.
Evans, Edwin R., Chicago, Ill. Brake construction. 1,924,112; Aug. 29.
Evans, Edwin R., Chicago, Ill. Brake shoe. 1,924,113; Aug. 29.
Evans, Edwin R., Chicago, Ill. Making brake shoes. 1,924,114; Aug. 29.
Everett, Henry C., jr., Boston, Mass., and C. L. Migliaccio, Cranston, R. I., assignors to Old Colony Distributing Company, Boston, Mass. Container for shaving cream, toothpaste, and the like. 1,924,205; Aug. 29.
Everitt, Byron F. (See Rose, F. N., and Everitt.)
Everson, Frank T., Manoa, assignor to The American Pulley Company, Philadelphia, Pa. Grooved pulley. 1,925,046; Aug. 29.
Fabyan, George. (See Eisenhour, Bert E., assignor.)
Fafnir Bearing Company, The. (See Leister, Fayette, assignor.)
Fagerl, Hollie B., Los Angeles, Calif., assignor, by mesne assignments, to Automotive Engineering Corporation. Multiwheel road vehicle. 1,924,984; Aug. 29.
Fairweather, David A. W., and J. Thomas, assignors to Scottish Dyes Limited, Grangemouth, Scotland. Production of dyestuffs and intermediates. 1,924,774; Aug. 29.
Faige, Robert N., assignor to General Motors Research Corporation, Detroit, Mich. Method and system of illumination. 1,924,714; Aug. 29.
Fantausso, Joseph F. (See Batrack, E., and Fantausso.)
Farlee Manufacturing Company. (See Bostroem, August, assignor.)
Farlee, Robert, St. Davids, Pa. Rail joint. 1,924,684; Aug. 29.
Farrell, John B., Philadelphia, Pa. Tufting machine. 1,924,715; Aug. 29.
Faudi, Fritz, assignor to Messr. Ehrenreich & Cie., Duesseldorf-Oberhassel, Germany. Pneumatic cushion device. 1,924,234; Aug. 29.
Federwitz, Theodore A., assignor to Stokes and Smith Company, Philadelphia, Pa. Box machine. 1,924,681; Aug. 29.
Fehr, Roy B., assignor, by mesne assignments, to Detroit Trust Company, Detroit, Mich. Truing gears. 1,924,736; Aug. 29.
Feipel, Victor F., Fort Wayne, Ind. Disk damper control. 1,924,985; Aug. 29.
Fender, Percy R. (See Rowles, Sidney G., assignor.)
Ferguson, Warren T., Waban, and C. B. Eisenhauer, assignors to Ajax Spring Stabilizer Company, Cambridge, Mass. Unitary spring cover. 1,925,047; Aug. 29.
Ferngren, Enoch T., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Method and apparatus for drawing sheet glass under pressure. 1,924,599; Aug. 29.
Ferrara, John, Rochester, N. Y. Resoling stitching machine. 1,924,737; Aug. 29.
Ferrell, Enoch B., Eaton Town, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Protective means for electrical systems. 1,924,115; Aug. 29.
Ferrettie, Conrad, assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Footwear and making same. 1,924,716; Aug. 29.
Ferris, Robert G., assignor to Starline, Inc., Harvard, Ill. Ventilating apparatus. 1,924,489; Aug. 29.
Figgie, Harry E., Lakewood, Ohio, assignor to Standard Steel Spring Company. Bumper end construction. 1,924,600; Aug. 29.
Fincke, Clara K., Kansas City, Kans. Work-holder for darning, mending, embroidering, etc. 1,924,490; Aug. 29.
Finn, Robert R. (See Bysshe, E. T., and Finn.)
Finnegan, William J., Atlanta, Ga. Method and apparatus for rapid freezing and handling of comestibles. 1,925,033; Aug. 29.
Fiorino, Vincent, Chicago, Ill. Wind instrument. 1,924,399; Aug. 29.
Fischel, Paul F. (See Lyman, W. H., and Fischel.)
Fischer, Theodor, Cassel, Germany, assignor to The Superheater Company, New York, N. Y. Superheater for high pressure boilers. 1,924,918; Aug. 29.
Fisher, Frank F., Detroit, Mich. Tube end cleaner. 1,924,682; Aug. 29.
Fisher, Harry C., Norwood, assignor to The Richardson Company, Lockland, Ohio. Composite structure. 1,924,601; Aug. 29.
Fitzgerald Mfg. Company, The. (See Fitzgerald, Martin D., assignor.)
Fitzgerald, Martin D., assignor to The Fitzgerald Mfg. Company, Torrington, Conn. Prick punching machine. 1,925,034; Aug. 29.
Fitzgerald, Reginald P. (See Fitzgerald, William H. J. and R. P.)
Fitzgerald, William H. J., and R. P. Fitzgerald, Braintree, assignors to Pneumatic Drop Hammer Company, Boston, Mass. Drop hammer. 1,924,545; Aug. 29.
Fitzpatrick, Ray, East Palestine, Ohio. Hanger for pipes and the like. 1,924,353; Aug. 29.
Flanders, Allen M., and J. T. Dessureau, Barre, Vt. Electric motor-controlling means. 1,924,775; Aug. 29.
Flanders, Allen M., and J. T. Dessureau, Barre, Vt. Rotatable switch. 1,924,776; Aug. 29.
Flanders, Allen M., and J. T. Dessureau, Barre, Vt. Limit switch. 1,924,777; Aug. 29.
Flanders, Allen M. and J. T. Dessureau, Barre, Vt. Automobile signal. 1,924,778; Aug. 29.
Flanders, Ralph E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Hydraulic power transmission and metering device therefor. 1,924,738; Aug. 29.
Fletcher, Rolland, Des Moines, Iowa. Arm propelled swing. 1,924,683; Aug. 29.
Flowers, Alan E., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Distilling. 1,924,919; Aug. 29.
Flynn, Benjamin H., Alexandria, La. Overpass. 1,924,779; Aug. 29.
Fonda, Bayard P., assignor to The Silica Gel Corporation, Baltimore, Md. Adsorption system. 1,924,849; Aug. 29.
Fontaine, Robert A., Martinsville, Va. Truck and trailer coupling mechanism. 1,924,235; Aug. 29.
Ford, James H. (See Breit, E., and Ford.)
Forney Combustion Engineering Company. (See Forney, Ross H., assignor.)
Forney, Ross H., assignor to Forney Combustion Engineering Company, Dallas, Tex. Fuel burner. 1,924,400; Aug. 29.
Foster, Charles E., Letchworth, Hertfordshire, and J. E. Oram, Holloway, London, England. Furnace. 1,924,920; Aug. 29.
Found, Clifton G., A. W. Hull, and J. C. Smith, Schenectady, N. Y., assignors to General Electric Company. Electric lamp and method of operation. 1,924,739; Aug. 29.
Fowler, Arno W., Highland, Ill. Clock winding mechanism. 1,924,116; Aug. 29.
Frame, Augustus J., assignor to Franklin Oil Heating, Inc., Columbus, Ohio. Oil burner head. 1,924,092; Aug. 29.
Francis, Earle V., and A. W. Lemmon, assignors to The Jeffrey Manufacturing Company, Columbus, Ohio. Combined take-up and safety lock. 1,925,021; Aug. 29.

Francis, Earle V., and A. W. Lemmon, assignors to The Jeffrey Manufacturing Company, Columbus, Ohio. Combined take-up and safety lock. 1,925,022; Aug. 29.
Francis, Henry A. (See Walmsley, E., and Francis.)
Frank, Clarence A., Edgewood Arsenal, Md. Indicating valve stem and low pressure signal switch. 1,924,921; Aug. 29.
Franklin Oil Heating, Inc. (See Frame, Augustus J., assignor.)
Franz, John W., St. Louis, Mo., assignor of one-half to L. J. Rasse, Fairbury, Nebr. Baffle for furnaces. 1,924,274; Aug. 29.
Fransen, Peter. (See Paschke, F., and Fransen.)
Frazier, Kenneth S., assignor to Detroit Steel Products Company, Detroit, Mich. Partition wall and constructing the same. 1,924,986; Aug. 29.
Freedlander, Abraham L., Dayton, Ohio. Belt. 1,924,854; Aug. 29.
Freedlander, Abraham L., Dayton, Ohio. Belt. 1,924,855; Aug. 29.
Freiday, Jay A., East Orange, N. J., assignor to Metropolitan Engineering Company, Brooklyn, N. Y. Boiler. 1,924,850; Aug. 29.
Frey, Albert A., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulating material. 1,924,311; Aug. 29.
Freyn Engineering Company. (See Ebner, Alfred J., assignor.)
Friedberg, Mayo, Chicago, Ill. Balloon. 1,924,236; Aug. 29.
Fried. Krupp Aktiengesellschaft. (See Lehmann, K. A., and Zakowski, assignors.)
Friedrich, Hermann. (See Neelmeier, W., Nocken, and Friedrich.)
Friel, Earl C., et al. (See Barnes, Alvin P., assignor.)
Frieman, Jacob G., Los Angeles, Calif. Sanitary garment. 1,924,642; Aug. 29.
Frigidaire Corporation. (See Summers, Otto M., assignor.)
Frischer, Hermann, Cologne-Lindenthal, Germany. Concentrating nitric acid. 1,924,812; Aug. 29.
Fritz, Edward M., and E. K. and F. W. Thomas, assignors to Grand Rapids Cabinet Company, Grand Rapids, Mich. Storage and display cabinet. 1,924,117; Aug. 29.
Fritz, Edward M., and E. K. and F. W. Thomas, assignors to Grand Rapids Cabinet Company, Grand Rapids, Mich. Storage and display cabinet. 1,924,118; Aug. 29.
Fritz, Ernest M., Chicago, Ill. Golf bag stand. 1,924,182; Aug. 29.
Fritz, Ernest M., Chicago, Ill. Golf bag stand. 1,924,183; Aug. 29.
Frosted Foods Company. (See Birdseye, Clarence, assignor.)
Fry, Benjamin L., St. Louis, Mo. Delivery mechanism for vending machines. 1,924,780; Aug. 29.
Fulton Sylphon Company, The. (See Giesler, Jean V., assignor.)
Fulton Sylphon Company, The. (See Reeder, Frank C., assignor.)
Furino, Antonio, Brooklyn, N. Y. Combination lock. 1,924,987; Aug. 29.
G-M Laboratories, Inc. (See McMaster, Archie J., assignor.)
Gabrielson, Carl, assignor to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Typewriting machine. 1,924,119; Aug. 29.
Gachet, Ernest J. (See Patterson, W. G., and Gachet.)
Gaiser, Paul, Sellersville, Pa., assignor to The United States Gauge Company, New York, N. Y. Low pressure diaphragm gauge. 1,924,781; Aug. 29.
Gard, Clare D., assignor to Union Oil Company of California, Los Angeles, Calif. Method and apparatus for distillation of hydrocarbons. 1,924,602; Aug. 29.
Gardner-Denver Company. (See MacFadden, George J., assignor.)
Garfinkel, Emile, Newark, N. J. Golf bag. 1,924,546; Aug. 29.
Garfinkel, Emile, Newark, N. J. Golf bag. 1,924,547; Aug. 29.
Garlock Packing Company, The. (See Hubbard, Cecil R., assignor.)
Gaus, George E., Washington, D. C., dedicated to the free use of the Government and the People of the United States. Adjustable wire bale-tie. 1,924,155; Aug. 29.
Gay, Paul, Trion, Ga. Manually operable cigarette rolling machine. 1,924,643; Aug. 29.
Geddes, Norman B., New York, N. Y. Automotive vehicle. Des. 90,577; Aug. 29.
Geffcken, Heinrich H., and H. R. Richter, Leipzig, Germany. Photo-electric tube. 1,924,275; Aug. 29.
Gehr, H. W., et al. (See Barnes, Alvin P., assignor.)
Gehrig, Carl, assignor of one-half to K. P. May, West New York, N. J. Window cleaning apparatus. 1,924,922; Aug. 29.
Geiger, Theodore H. (See Stoddard, W. B., Geiger, and Burgess.)
Gelinas, Urbain, Montreal, Quebec, Canada. Refrigerating trunk for automobiles. 1,924,494; Aug. 29.
General Aniline Works, Inc. (See Eckert, W., and Braunsdorf, assignors.)
General Aniline Works, Inc. (See Hoffa, E., and Jörg, assignors.)
General Aniline Works, Inc. (See Kränzlein, G., Corell, and Diefenbach, assignors.)
General Aniline Works, Inc. (See Kränzlein, G., Corell, and Dohle, assignors.)
General Aniline Works, Inc. (See Kuns, M. A., Koeberle, and Berthold, assignors.)
General Aniline Works, Inc. (See Neelmeier, W., Nocken, and Friedrich, assignors.)
General Electric Company. (See Brieger, Ferdinand, assignor.)
General Electric Company. (See Found, C. G., Hull, and Smith, assignors.)
General Electric Company. (See Hull, Albert W., assignor.)
General Electric Company. (See Hull, A. W., and Ruggles, assignors.)
General Electric Company. (See Pike, Otis W., assignor.)
General Electric Company. (See Renner, Alfred, assignor.)
General Electric Company. (See Suits, Chauncey G., assignor.)
General Electric Company. (See Taylor, William G., assignor.)
General Kontrolar Company. (See Bossard, Gisbert L., assignor.)
General Motors Research Corporation. (See Faige, Robert N., assignor.)
General Motors Research Corporation. (See Hallett, George E. A., assignor.)
General Motors Research Corporation. (See Lowell, W. G., and Boyd, assignors.)
General Motors Research Corporation. (See Shoemaker, Fred G., assignor.)
General Spring Bumper Corporation. (See Doutt, Owen, assignor.)
General Steel Castings Corporation. (See Zach, Julius J., assignor.)
Gerstenberger, Alfred, Leipzig, Germany. Automobile lifting mechanism. 1,924,276; Aug. 29.
Gibbons, Cedric, Santa Monica, and E. H. Tate, Los Angeles, assignors to Metro-Goldwyn-Mayer Corporation, Culver City, Calif. Construction material. 1,924,548; Aug. 29.
Gibbons, Frank J., Worcester, Mass. Shock absorber. 1,924,184; Aug. 29.
Gibbons, Willis A., Montclair, N. J., assignor to Revere Rubber Company, Providence, R. I. Making rubber thread. 1,924,923; Aug. 29.
Gibbons, Willis A., Montclair, N. J., assignor to Revere Rubber Company, Providence, R. I. Making rubber thread. 1,924,924; Aug. 29.
Gibbs, Leon M., Birmingham, Ala., assignor to Teleswitch Corporation. Method and apparatus for directing the switching of railway cars at yards and terminals. 1,924,491; Aug. 29.
Gibson, George B. (See Engert, G. A., and Gibson.)
Giesler, Jean V., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Tube drawing machine. 1,925,035; Aug. 29.
Gill, Lewis A. (See McNicol, Alexander and A., Gill, and Stafford.)
Gilleo, Acie J., assignor to The Outrite Fire Extinguisher Corporation, Detroit, Mich. Fire extinguishing compound. 1,924,401; Aug. 29.
Gillette Safety Razor Company. (See Thompson, Ralph E., assignor.)
Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote indication apparatus. 1,924,603; Aug. 29.
Glab, William N., assignor to Morrison Bros., Dubuque, Iowa. Emergency valve. 1,924,356; Aug. 29.
Glanzstoff-Courtaulds G. m. b. H. (See Paschke, F., and Fransen, assignors.)
Glascodine, Richard T., London, England. Bogie truck for railway and like vehicles. 1,924,237; Aug. 29.
Globe Automatic Sprinkler Company. (See Rowley, Arthur C., assignor.)
Goering, Charles, South Norwalk, Conn. Window. 1,924,782; Aug. 29.
Goin, Newbold C. (See Shirk, W. B., Brace, and Goin.)
Gold, Harriet, et al. (See Hopp, Leo, assignor.)
Goldberg, Samuel D., assignor to Novocol Chemical Mfg. Co. Inc., Brooklyn, N. Y. Anaesthetic composition. 1,924,685; Aug. 29.
Goldhammer, Leo, and F. Stiefenhofer, Munique, Germany, assignors to Agfa Ansco Corporation, Binghamton, N. Y. Film reel for cinematograph apparatus. 1,924,093; Aug. 29.
Goldsmith, Alfred N., New York, N. Y., assignor to Radio Corporation of America. Television system. 1,924,277; Aug. 29.
Goldwyn, George I., Chicago, Ill. Burlap bag. 1,924,492; Aug. 29.
Gollmar, Herbert A., East Orange, N. J., assignor to The Koppers Company of Delaware. Gas purification material and using the same. 1,924,185; Aug. 29.
Good Humor Corporation of America. (See West, John W., assignor.)
Goodman Manufacturing Company. (See Lindgren, Frank A., assignor.)
Goodrich, B. F., Company, The. (See MacDonald, Frank J., assignor.)

Goodrich, B. F., Company, The. (See Miller, Lee R., assignor.)
Goodrich, Charles W. (See Blood, L. H., and Goodrich.)
Goodspeed Machine Company. (See Hall, Walter H., assignor.)
Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle checking mechanism. 1,924,186; Aug. 29.
Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle checking mechanism. 1,924,187; Aug. 29.
Gorton, George, Racine, Wis. Engraving machine and the like. 1,925,036; Aug. 29.
Goss, Byron C., Cleveland, Ohio. Electrical gas daylight holdup protection system. 1,924,783; Aug. 29.
Government and the people of the United States, The. (See Gaus, George E.)
Graham, John H., Spokane, Wash. Drawing instrument. 1,924,094; Aug. 29.
Graenacher, Charles, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Cellulose solution and cellulose derivative and making same. 1,924,238; Aug. 29.
Graff, George B., Company. (See Graff, L. S., and Stewart, assignors.)
Graff, Leland S., Arlington, and R. A. Stewart, Watertown, assignors to George B. Graff Company, Cambridge, Mass. Indicator tab. 1,924,239; Aug. 29.
Grand Rapids Cabinet Company. (See Fritz, E. M., and E. K. and E. W. Thomas, assignors.)
Grant, Arthur C., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Furnace control means. 1,924,925; Aug. 29.
Graves, Herbert C., jr., Tredyffrin Township, Chester county, and Henry J. Schmid, assignors to I-T-E Circuit Breaker Company, Philadelphia, Pa. Electromagnetic device. 1,924,686; Aug. 29.
Gray, Lois B., Kansas City, Mo. Receptacle protector. 1,924,926; Aug. 29.
Gray, Milton, assignor to E. L. Bruce Company, Memphis, Tenn. Floor. 1,925,068; Aug. 29.
Gray, William E., West Lafayette, Ind., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Draft gear. 1,924,604; Aug. 29.
Graybar Electric Company. (See Reddig, Charles E., assignor.)
Grayson, Ralph V., and E. G. Ballenger, Atlanta, Ga.; said Grayson assignor to Patent and Security Holding Corporation, Tampa, Fla. Quick freezing system. 1,924,988; Aug. 29.
Greaves, Frederick G. (See Bardon, D. M., Greaves, and Watt.)
Grebe, John J., and W. H. Dow, assignors to The Dow Chemical Company, Midland, Mich. Making phenates. 1,924,313; Aug. 29.
Green, Charles W., Ilion, N. Y., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,924,278; Aug. 29.
Green, Thomas L., and C. H. Williams, Indianapolis, Ind. Biscuit cutting and panning machine. 1,924,549; Aug. 29.
Greenleaf, Leland B., assignor to C. G. Conn, Ltd., Elkhart, Ind. Musical trap holder. 1,924,784; Aug. 29.
Griffins, Morris E., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 1,924,095; Aug. 29.
Griffith, Earl G., Los Angeles, Calif. Washer brush and holder. 1,924,432; Aug. 29.
Griffith, Ronald G., assignor to Creed and Company, Limited, Croydon, England. Start stop telegraph system and apparatus. 1,924,357; Aug. 29.
Grifols Y. Roig, José, Barcelona, Spain. Cannula package. 1,924,785; Aug. 29.
Grigsby-Grunow Company. (See Kenney, Mahlon W., assignor.)
Grigsby-Grunow Company. (See Paradise, Morrie E., assignor.)
Griswold, Walter R., assignor to Packard Motor Car Company, Detroit, Mich. Internal combustion engine. 1,925,071; Aug. 29.
Griswold, Walter R., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,925,072; Aug. 29.
Grogan, Robert S., Chicago, Ill. Laundry tub rim. Des. 90,578; Aug. 29.
Grunkemeyer, Frank P., Morris, Ind. Oscillating a baby carriage. 1,924,493; Aug. 29.
Gubelmann, William S., Buffalo, N. Y. Calculating machine. 1,924,653; Aug. 29.
Guide Lamp Corporation. (See Turnquist, Edward, assignor.)
Gumpper, Harold D., assignor to M. T. Gumpper, Detroit, Mich. Electric vehicle. 1,924,851; Aug. 29.
Gumpper, Marjorie T. (See Gumpper, Harold D., assignor.)
Gunn, Earl G., assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Vibration damper for crank shafts. 1,925,073; Aug. 29.
Gustine, Arthur N., assignor to King-Seeley Corporation, Ann Arbor, Mich. Liquid depth indicator. 1,924,495; Aug. 29.
Haas, Lucien L., Buffalo, and G. C. Starkweather, Kenmore, assignors to Buffalo Pressed Steel Company, Buffalo, N. Y. Muffler. 1,924,605; Aug. 29.
Hall, Annie, and L. Diamond, Harpurhey, Manchester, England. Combination surgical instrument. Des. 90,579; Aug. 29.
Hall, Charles W., assignor to M. S. Losey, Denver, Colo. Rotary valve for internal combustion engines. 1,924,188; Aug. 29.
Hall, Raymond A., Fort Valley, Ga. Gasket cutter. 1,924,717; Aug. 29.
Hall, Walter H., assignor to Goodspeed Machine Company, Winchendon, Mass. Lubricating device for antifriction spindle bearing. 1,924,189; Aug. 29.
Hallett, George E. A., assignor to General Motors Research Corporation, Detroit, Mich. Antishimmy device. 1,924,718; Aug. 29.
Hallowell, Howard T., assignor to Standard Pressed Steel Co., Jenkintown, Pa. Packing house bench. 1,924,989; Aug. 29.
Halsey, Ande B., New York, N. Y. Window cleaning device. 1,924,852; Aug. 29.
Hamilton Manufacturing Company. (See Schutmaat, George W., assignor.)
Hammond Clock Company. (See Hammond, Laurens, assignor.)
Hammond, Laurens, Evanston, Ill., assignor, by mesne assignments, to R. D. Mershon, New York, N. Y. Electrolitic condenser. 1,924,606; Aug. 29.
Hammond, Laurens, Evanston, assignor, by mesne assignments, to The Hammond Clock Company, Chicago, Ill. Alternating current clock. 1,924,853; Aug. 29.
Handy Governor Corporation. (See Bull, Arthur A., assignor.)
Hansen, Anton. (See Saine, L. W., and Hansen.)
Hansen, Christian J., Essen-Ruhr, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa. Removal of cyanogen compounds from gases. 1,924,206; Aug. 29.
Hansen, Mahlin S., assignor to Peter C. Reilly, Indianapolis, Ind. Flotation method. 1,924,607; Aug. 29.
Hanson, Anton M., St. Paul, Minn., assignor of one-fourth to K. I. Connelly. Tire chain. 1,925,037; Aug. 29.
Hanson, Milton E., Collingswood, N. J., assignor to B. F. Sturtevant Company. Ozone applicator. 1,924,120; Aug. 29.
Harm, George O., Warren, and R. R. McBride, Cleveland, assignors to The Stevens Metal Products Company, Niles, Ohio. Dumping receptacle. 1,924,927; Aug. 29.
Harmon, Arthur R., La Grange, Ill. Musical instrument. 1,924,854; Aug. 29.
Harmon, Ralph N., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heating system. 1,924,928; Aug. 29.
Harpster, Clayton H., Elyria, Ohio. Stocking. 1,924,433; Aug. 29.
Harris, Benjamin R. (See Beckert, C. J., Kritchevsky, and Harris.)
Harris, Benjamin R. (See Kritchevsky, W., Harris, and Beckert.)
Harris, Benjamin R., C. J. Beckert, and W. Kritchevsky, Chicago, Ill. Stabilized egg product. 1,924,990; Aug. 29.
Harrison, Raymond L., Albuquerque, N. Mex. Earth moving device. 1,924,358; Aug. 29.
Harrison, Raymond L., Albuquerque, N. Mex. Boll overscraper. 1,924,359; Aug. 29.
Harrison, Raymond L., Albuquerque, N. Mex. Earth moving device. 1,924,360; Aug. 29.
Harry, Robert J., and M. Shutt, assignors to The Alliance Machine Company, Alliance, Ohio. Stripper. 1,924,740; Aug. 29.
Hart, Robert W., Lynn, assignor to Submarine Signal Company, Boston, Mass. Measuring distance. 1,924,156; Aug. 29.
Harter, Isaac, New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler drum. 1,924,279; Aug. 29.
Hartmann, Max, Riehen, near Basel, and M. Seiberth, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Crystallised peroxide from tetrahydronaphthalene. 1,924,786; Aug. 29.
Hartung, William R., Des Moines, Iowa. Brooder. 1,924,207; Aug. 29.
Hartzell Industries, Inc. (See Charavay, Frederick, assignor.)
Harvie, Walter E., Portland, Maine. Culinary machine. 1,924,991; Aug. 29.
Harwell, Robert H., assignor to C. C. Houston, Lewisburg, Tenn. Compound lumber and making same. 1,924,240; Aug. 29.
Hassler, John, Parkersburg, W. Va. Mole trap. 1,924,241; Aug. 29.
Hathaway, Edgar F., Wellesley, and W. Bixby, Boston, Mass. Yarn spool. 1,924,929; Aug. 29.
Hawthorne, Louis A. (See Zimber, E. M., and Hawthorne.)
Haynes Stellite Company. (See Brown, Lucian H., assignor.)
H'Doubler, Charles W., Springfield, Mo. Illuminating device for sewing machines or the like. 1,924,157; Aug. 29.
Held, Jacob B., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 1,924,855; Aug. 29.

Heintz & Kaufman, Ltd. (See Scofield, Philip F., assignor.)
Heise, George W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Electric battery. 1,924,814; Aug. 29.
Heller, Harold H. (See Wheeler, F. G., and Heller.)
Heller, Oswald, Berlin, Germany. Continuous gas manufacture. 1,924,856; Aug. 29.
Hemphill, Edward C. (See Hemphill, Edward C., and E. M.)
Hemphill, Edward C. and E. M., San Francisco, Calif. Sleep eye shade. 1,924,315; Aug. 29.
Henpen, Earl C., Columbus, Ohio. Fuel composition and producing the same. 1,925,048; Aug. 29.
Hercules Powder Company. (See Alexander, Harvey B., assignor.)
Hercules Powder Company. (See Champney, Hubert H., assignor.)
Hercules Powder Company. (See Johnston, Alan C., assignor.)
Herod, Omar L., Point Marion, Pa. Stretcher. 1,924,496; Aug. 29.
Hershey, Harry E., Oak Park, assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Time signaling system. 1,924,402; Aug. 29.
Herthel, Eugene C., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Refining hydrocarbons. 1,924,687; Aug. 29.
Hevi Duty Electric Company. (See Smalley, Edwin L., assignor.)
Hibner, De Los E., jr., and T. M. Bruback, Du Bois, Pa. Boiler cleaner. 1,924,550; Aug. 29.
Hickok, W. O., Manufacturing Company. (See Broadmeyer, Albert, assignor.)
Higgins, Frank H., Montclair, N. J., assignor to Sanford Mills, Sanford, Maine. Machine for uniting strips of floor covering or the like, to present a seamless upper surface. 1,924,551; Aug. 29.
Higgins, H. G. (See Weatherly, James F., assignor.)
High, Jurjen S., Oaklyn Manor, N. J., assignor to Westinghouse Electric & Manufacturing Company. Making diaphragms. 1,924,316; Aug. 29.
Hill, Frank L., Orlando, Fla. Imitating onyx, marble, or the like on glass. 1,947,787; Aug. 29.
Hill, William H. (See Ross, H. J., and Hill.)
Hills Brothers Company, The. (See Curtiss, Nathan A., assignor.)
Himmelberger, William H., assignor, by mesne assignments, to H. E. Moore, Lansing, Mich. Lawn roller. 1,924,644; Aug. 29.
Hitchcock, Rex B. (See Lindgren, A. C., Raney, and Hitchcock.)
Hoague-Sprague Corporation. (See Knowlton, Cutler D., assignor.)
Hobart, Louis C., assignor to The Stanley Works, New Britain, Conn. Chaplet. 1,924,280; Aug. 29.
Hobson, Frank E., Bellingham, Wash., assignor to Western Combustion Engineers, Inc., Portland, Oreg. Device for the heat treating of comminuted materials. 1,924,788; Aug. 29.
Hodgman, Frederick S., Glen Rock, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Wireless controlled automatic pilot. 1,924,857; Aug. 29.
Hoffa, Erwin, and P. Jörg, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Water-insoluble azo-dyestuffs. 1,924,434; Aug. 29.
Hogan, George R., Chicago, Ill. Cabinet. Des. 90,580; Aug. 29.
Holcombe, Guy T. (See Sanders, James E., assignor.)
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,924,552; Aug. 29.
Holswarth Gas Turbine Co. (See Holswarth, Hans, assignor.)
Holswarth, Hans, Dusseldorf, Germany, assignor to Holswarth Gas Turbine Co., San Francisco, Calif. Arrangement of nozzle valve for explosion turbines. 1,924,719; Aug. 29.
Homer, William J., Hinsdale, assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Condenser. 1,924,435; Aug. 29.
Hoopes, James E., Chagrin Falls, and E. Shoulter, Bridgeport, Ohio, said Shoulter assignor to said Hoopes. Fuel supply tank. 1,924,741; Aug. 29.
Hopp, George, et al. (See Hopp, Leo, assignor.)
Hopp, Leo, assignor of one-half to H. Gold and one-half to G. Hopp, New York, N. Y. Price ticket holder. 1,924,858; Aug. 29.
Hosmon, James O., and E. W. Anderson, San Diego, Calif. Valve mechanism for gas engines. 1,924,403; Aug. 29.
Horvath, Anthony, Wallingford, Conn. Egg opener device. 1,924,789; Aug. 29.
Hotchner, Fred, Los Angeles, Calif. Discharge tube display. 1,924,497; Aug. 29.
Houdaille, Maurice, Levallois-Perret, France, assignor to Houde Engineering Corporation, Buffalo, N. Y. Shock absorber adjusting device. 1,924,404; Aug. 29.
Houde Engineering Corporation. (See Houdaille, Maurice, assignor.)
Hoxsh, Clinton W., assignor to Wired Radio, Inc., New York, N. Y. Selective tuning device. 1,924,553; Aug. 29.
House, Hiram H., El Paso, Tex. Flush out fitting. 1,924,498; Aug. 29.
Houston, Cyrus C. (See Harwell, Robert H., assignor.)
How, Harlan W., Warren, Pa., and L. H. Johnson, Lakewood, N. Y., assignors to Struthers Wells Titusville Corporation, Warren, Pa. Mechanism for controlling pressure and feed of tools of rotary well drilling rigs. 1,924,317; Aug. 29.
Howard, Guy C., Wausau, Wis. Treating waste sulphite liquor. 1,924,361; Aug. 29.
Howard, William R., Washington, D. C. Apparatus for forming emulsions. 1,925,049; Aug. 29.
Howard, William R., Washington, D. C., assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for treating hydrocarbons. 1,924,859; Aug. 29.
Howe, Wilfred C., and O. V. Payne, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop motion. 1,924,208; Aug. 29.
Howell, Theodore L., assignor to Kurt Versen, New York, N. Y. Lighting fixture. Des. 90,612; Aug. 29.
Hruby, Louis J., Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material treating machine. 1,924,554; Aug. 29.
Hubbard, Cecil R., assignor to The Garlock Packing Company, Palmyra, N. Y. Machinery packing. 1,924,555; Aug. 29.
Huet, André, Paris, France, assignor to The Superheater Company, New York, N. Y. Superheater. 1,924,932; Aug. 29.
Huff, Leslie R., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Automatic regulator for pumps. 1,924,930; Aug. 29.
Huffman, Mervin C., Claremont, N. H., assignor to Sullivan Machinery Company. Lubricating device. 1,924,499; Aug. 29.
Hughes, James W., assignor to Chrysler Corporation, Detroit, Mich. Generating odontograph. 1,924,405; Aug. 29.
Hulbert, John L., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Pulsator for milking machines. 1,924,931; Aug. 29.
Hull, Albert W. (See Found, C. G., Hull, and Smith.)
Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Cathode structure for thermionic devices. 1,924,319; Aug. 29.
Hull, Albert W., and W. A. Ruggles, Schenectady, N. Y., assignors to General Electric Company. Thermionic device. 1,924,318; Aug. 29.
Hump Hairpin Manufacturing Company. (See Willi, Frederick D., assignor.)
Hyde, Joseph, Gainesville, Ga., assignor to Draper Corporation, Hopedale, Mass. Driving means for warp stop motions. 1,924,790; Aug. 29.
Hyla, Raymond M., Amsterdam, N. Y. Electrically operated doorlock mechanism. 1,924,940; Aug. 29.
Hyman, Harry, Asbury Park, N. J. Cuff link. 1,924,791; Aug. 29.
I. G. Farbenindustrie Aktiengesellschaft. (See Bock, W., and Tschunkur, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Orthner, L., and Bögemann, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Orthner, L., Zaucker, and Bögemann, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Paquin, Max, assignor.)
I-T-E Circuit Breaker Company. (See Graves, H. C., and Schmid, assignors.)
Imperial Chemical Industries Limited. (See Thomson, R. F., and Loveluck, assignors.)
Ingersoll, Ella I. (See Tatter, John W., assignor.)
Ingersoll-Rand Company. (See Huff, Leslie R., assignor.)
International Check Endorser Co., The. (See Lyman, W. H., and Fischel, assignors.)
International Harvester Company. (See Lindgren, A. C., Raney, and Hitchcock, assignors.)
International Standard Electric Corporation. (See Sandeman, E. K., Thomas, and Dunham, assignors.)
Iribarne, Emilio. (See Rivas, R. L., and Iribarne.)
Irons, George A., jr., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft carrier. 1,924,191; Aug. 29.
Isler, Herman R., Norwood, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Cutter grinder. 1,924,608; Aug. 29.
Jadgmann, Karl E. W., and O. H. Bonter, assignors to The Blystone Manufacturing Company, Cambridge Springs, Pa. Molding machine and operating the same. 1,925,050; Aug. 29.
Jaeschitz, Konrad, Mainz, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Nuremberg, Germany. Liquid seal for gas holders. 1,924,281; Aug. 29.
James, Henry D. (See Cook, W. G., and James.)
James, Henry D., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elevator safety braking system. 1,924,320; Aug. 29.
James, Henry D., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Braking system. 1,924,321; Aug. 29.
Jasper, Emett W., Daytona Beach, Fla. Tow line and making same. 1,924,992; Aug. 29.
Jasper, Thomas McL., assignor to A. O. Smith Corporation, Milwaukee, Wis. Welded manway for pressure vessels. 1,924,121; Aug. 29.
Jeffrey Manufacturing Company, The. (See Francis, E. V., and Lemmon, assignors.)
Jeffrey Manufacturing Company, The. (See Mercier, Stanley M., assignor.)

Jeffrey Manufacturing Company, The. (See Slater, Elmer C., assignor.)
Jennings, Chester S., and L. E. Dupuy, assignors to The Lamson Company, Syracuse, N. Y. Noninterference apparatus. 1,924,556; Aug. 29.
Jenny, Rudolph H., Rome, N. Y. Spindle mounting for insulating machines. 1,924,282; Aug. 29.
Jeppsson, Ivar, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Portable electric cutting machine. Des. 90,581; Aug. 29.
Jester, Maxwell B., and A. J. Smith, assignors to Calumet Refining Company, Chicago, Ill. Display device. 1,924,406; Aug. 29.
Johansen, Harry C., Michigan City, Ind., assignor to Sullivan Machinery Company. Safety clamp. 1,924,486; Aug. 29.
John, Hans, Appleton, C. C. Le Febvre, and H. Du Bois, assignors to Paper Patents Company, Neenah, Wis. Apparatus for bleaching pulp. 1,924,860; Aug. 29.
Johnson, Horace L. (See Ross, F. N., and Johnson.)
Johnson, John A., Crawfordsville, Ind., assignor to National Supply & Service Corporation. Chimney flue cover. 1,924,437; Aug. 29.
Johnson, Leon H. (See How, H. W., and Johnson.)
Johnson Metal Products Company. (See Johnson, Theodore, assignor.)
Johnson, Samuel J., assignor to The Seinsheimer Paper Company, Cincinnati, Ohio. Sock form. 1,924,988; Aug. 29.
Johnson, Theodore, assignor to Johnson Metal Products Company, Erie, Pa. Casement window operator. 1,924,557; Aug. 29.
Johnston, Alan C., Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Producing esters of resin acids. 1,924,934; Aug. 29.
Jonas, Edward, New York, N. Y., assignor to Universal Home Specialties, Inc., Philadelphia, Pa. Shade bracket. 1,924,862; Aug. 29.
Jones & Lamson Machine Company. (See Bysshe, E. T., and Finn, assignors.)
Jones & Lamson Machine Company. (See Flanders, Ralph E., assignor.)
Jones, Lester L., Oradell, N. J. Airplane. 1,924,122; Aug. 29.
Jones, Lester L., Oradell, N. J., and T. E. Piazze, Brooklyn, assignors to Technidyne Corporation, New York, N. Y. Phonograph. 1,924,283; Aug. 29.
Jones, Paul, Whitman, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe rack. 1,924,158; Aug. 29.
Jones, Percival C. (See Millan, E. N., and Jones.)
Jörg, Paul. (See Hoffa, E., and Jörg.)
Josephsen, Joseph A., Arcadia, Calif. Power transmitting apparatus. 1,924,941; Aug. 29.
Judson, Wilber, Newgulf, Tex., assignor to The Koppers Company of Delaware. Treatment of liquids. 1,924,861; Aug. 29.
Kanai, Kunso, Boeler, Wyo. Front wheel drive motorcycle. 1,924,363; Aug. 29.
Kaplan, Solis D., Philadelphia, Pa. Building. Des. 90,582; Aug. 29.
Kasper, Louis, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Warp stop motion. 1,925,051; Aug. 29.
Kasten, Ewald F., Watertown, Wis. Cheese mold. 1,924,500; Aug. 29.
Kay, Alfred H., Alderley Edge, near Manchester, England. Foot instep support. 1,924,792; Aug. 29.
Kaye, John W., Luling, Tex. Closure cap securing device for containers. 1,924,242; Aug. 29.
Kayner, Morris S., Caguas, P. R. Cigar and making same. 1,924,993; Aug. 29.
Keller, Charles L., Cincinnati, assignor to The Richardson Company, Lockland, Ohio. Cylindrical and the like container made of composite materials. 1,924,609; Aug. 29.
Keller, William H., Inc. (See Shaff, Ernest H., assignor.)
Kellogg Switchboard and Supply Company. (See Sauer, Louis B., assignor.)
Kellotat, William F., Portland, Oreg. Automatic firing action for guns. 1,924,159; Aug. 29.
Kelly, Bernard J., assignor to Sloane-Blabon Corporation, Philadelphia, Pa. Printing. 1,924,501; Aug. 29.
Kelsey-Hayes Wheel Corporation. (See Ash, Charles S., assignor.)
Kemper, Charles W. and J. T., Hayward, Calif. Strain clamp. 1,924,438; Aug. 29.
Kemper, John T. (See Kemper, Charles W. and J. T.)
Kendall Company, The. (See Rustis, Warner, assignor.)
Kennedy, Joseph E., New York, N. Y. Feeding pulverized fuel to furnaces. 1,924,123; Aug. 29.
Kennedy, Walter C., Llanerch, Pa. Speed control apparatus. 1,924,558; Aug. 29.
Kenney, Mahlon W., Elmhurst, assignor to Grigsby-Grunow Company, Chicago, Ill. Electrical apparatus. 1,924,862; Aug. 29.
Kersten, Harold J., Cincinnati, Ohio. Forming alloy materials by electroplating. 1,924,439; Aug. 29.
Kersten, Samuel, Chicago, Ill. Water faucet. 1,924,942; Aug. 29.
Kersten, Samuel, Chicago, Ill. Water faucet. 1,924,943; Aug. 29.
Kilgour, Dwight F., Lexington, Mass. Boiler. 1,924,209; Aug. 29.
Kincaid, Russell M., assignor to Chrysler Corporation, Detroit, Mich. Article holder. 1,924,502; Aug. 29.
King, Gilbert M., Pawtucket, R. I. Textile fabric or similar article. Des. 90,583; Aug. 29.
King-Seeley Corporation. (See Gustine, Arthur N., assignor.)
Kirchdörfer, Hans. (See Droste, H. W., and Kirchdörfer.)
Kirschstein, Benjamin, et al. (See Rosenwald, Isidor, assignor.)
Kitson Company. (See Lovekin, L. D. and Le Gorre, assignors.)
Kitson Company. (See Lovekin, Luther D., assignor.)
Kittredge, Rufus J., Evanston, Ill. Photographic film strip developing device. 1,924,944; Aug. 29.
Klatt, Walter R., Goldendale, Wash. Log turner. 1,924,440; Aug. 29.
Klein, Benjamin F., Detroit, Mich. Quilted goods and making the same. 1,924,935; Aug. 29.
Klotz, George, New York, N. Y., assignor to H. & G. Klotz. Convertible bed table. 1,924,945; Aug. 29.
Klotz, H. & G. (See Klotz, George, assignor.)
Knapp, Theodore E., jr., assignor to The Champion Coated Paper Company, Hamilton, Ohio. Process and apparatus for coating paper. 1,924,994; Aug. 29.
Knight, Ernest H., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Gear-reduction constant-speed unit with universal motors. 1,924,822; Aug. 29.
Knight, Ronald F., Ramsey, N. J. Steam engine. 1,924,689; Aug. 29.
Knowlton, Cutler D., Beverly, assignor to Hoague-Sprague Corporation, Lynn, Mass. Machine for making blanks. 1,924,160; Aug. 29.
Knowlton, Norwood H., Rockport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for applying heel covers. 1,924,243; Aug. 29.
Knox, Harry A., Davenport, Iowa. Flexible track. 1,924,161; Aug. 29.
Knox Terpesone Company of America. (See Rogers, Lewis H., assignor.)
Koch, Emma, Geb. Wilke, administratrix. (See Koch, Otto P.)
Koch, Louis A., jr., Louisville, Ky. Terminal. Des. 90,584; Aug. 29.
Koch, Lydia B., New York, N. Y., and A. Bodor, Newark, N. J., said Bodor assignor to said Koch. Cover for containers. 1,924,863; Aug. 29.
Koch, Otto P., deceased, by Emma Koch, Geb. Wilke, administratrix, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Electric machine. 1,924,364; Aug. 29.
Koeberle, Karl. (See Kunz, M. A., Koeberle, and Berthold.)
Koehler, Frederick L., Tenafly, N. J. Picture hanger. 1,924,864; Aug. 29.
Koenigkramer, Frank and F., Cincinnati, Ohio. Hospital carriage. Des. 90,585; Aug. 29.
Koenigkramer, Frederick. (See Koenigkramer, Frank, and F.)
Kohler, Wilbur H., Montclair, N. J. Double window or window ventilator. 1,924,284; Aug. 29.
Köhler, Willy, Mannheim-Seckenheim, assignor to Joseph Voegele Aktiengesellschaft, Mannheim, Germany. Grinding mill. 1,925,069; Aug. 29.
Kohlmeyer, Ernst J., and X. Siebers, Berlin-Charlottenburg, Germany. Treatment of raw materials containing silicic acid or silicates and oxides of heavy or light metals. 1,924,323; Aug. 29.
Kondolf, Mathias B., Lower Merion Township, Montgomery County, Pa. Film package. 1,924,324; Aug. 29.
Koppers Company, The. (See Rose, H. J., and Hill, assignors.)
Koppers Company of Delaware, The. (See Bragg, Gilbert A., assignor.)
Koppers Company of Delaware, The. (See Cole, Sandford S., assignor.)
Koppers Company of Delaware, The. (See Gollmar, Herbert A., assignor.)
Koppers Company of Delaware, The. (See Hansen, Christian J., assignor.)
Koppers Company of Delaware, The. (See Judson, Wilber, assignor.)
Koppers Company of Delaware, The. (See Lux, Elisabeth, assignor.)
Koppers Company of Delaware, The. (See McGurl, Gilbert V., assignor.)
Koppers Company of Delaware, The. (See Schüffler, Julius, assignor.)
Koppers Company of Delaware, The. (See Sperr, Frederick W., jr., assignor.)
Koppers Company of Delaware, The. (See Van Ackeren, Joseph, assignor.)
Köster, Werner, Dortmund, assignor to Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Improving nickel-tin-alloys. 1,924,244; Aug. 29.
Köster, Werner, Dortmund, assignor to the firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Improving nickel-molybdenum alloys. 1,924,245; Aug. 29.
Kott, Leo F., Detroit, Mich. Power tool. 1,924,946; Aug. 29.
Kottman, Arthur A. (See York, H. H., and Kottman.)
Kowalski, Joseph B., assignor, by mesne assignments, to Micromatic Hone Corporation, Detroit, Mich. Lapping tool. 1,924,865; Aug. 29.

CARNEGIE LIBRARY OF ATLANTA

Krämer, Bernhard, Halle on the Salle, assignor to the firm Elektrowerke Aktiengesellschaft, Berlin, Germany. Fluid controlling device. 1,924,825; Aug. 29.
Kränzlein, Georg, M. Corell, and W. Döhle, Hochst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Preparing cyclohexylamines. 1,924,441; Aug. 29.
Kränzlein, Georg, M. Corell, and E. Diefenbach, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Dyestuff of the anthraquinone series. 1,924,442; Aug. 29.
Kringel, Frank W., Los Angeles, Calif. Piano construction. 1,924,720; Aug. 29.
Kritchevsky, Wolf. (See Beckert, C. J., Kritchevsky, and Harris.)
Kritchevsky, Wolf. (See Harris, B. R., Beckert, and Kritchevsky.)
Kritchevsky, Wolf, B. R. Harris, and C. J. Beckert, Chicago, Ill. Stabilized egg product. 1,924,947 Aug. 29.
Kroger Grocery & Baking Company, The. (See Sherrill, Clarence O., assignor.)
Kuehmsted, Renfrew H., Highland Park, assignor to Thompson & Jameson Corporation, Chicago, Ill. Voltage control for variable speed generators. 1,924,190; Aug. 29.
Kulp, Harry W., and M. C. Dellinger, Lancaster, Pa. Spring compressor. 1,924,246; Aug. 29.
Kunz, Max A., Mannheim, K. Koeberle and E. Berthold, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Halogenation of cyclic compounds. 1,924,443; Aug. 29.
Kunz Max A., Mannheim, K. Koeberle, and E. Berthold, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Vat dyestuff and its production. 1,924,444; Aug. 29.
Kunz, Max A., Mannheim, K. Koeberle, and E. Berthold, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Halogen anthraquinone benzacridone. 1,924,445; Aug. 29.
Kunz, Max A., Mannheim, K. Koeberle, and E. Berthold, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Halogenated anthraquinone acridone and preparing it. 1,924,446; Aug. 29.
Kuska, Henry, Chicago, Ill. Razor blade sharpening device. 1,924,995; Aug. 29.
Kusse, Frederick C., Chicago, Ill. Aircraft. 1,924,192; Aug. 29.
Kuszelewski, Albert R., assignor to American Engineering Company, Philadelphia, Pa. Pump. 1,924,124; Aug. 29.
Kusmick, Joseph N. (See Novotny, E. E., and Kusmick.)
La Bour, Harry E., Elkhart, Ind. Glaud. 1,924,407; Aug. 29.
La Brie, Ludger E., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,924,610; Aug. 29.
La Brie, Ludger E., assignor to Bendix Brake Company, South Bend, Ind. Brake operating mechanism. 1,924,611; Aug. 29.
La Hodney, William, Buffalo, N. Y. Combined mirror and timepiece. 1,924,997; Aug. 29.
Lambert, Arthur, assignor to Cosmic Arts, Inc., New York, N. Y. Treatment of complex solutions of salts. 1,924,503; Aug. 29.
Lamson Company, The. (See Jennings, C. S., and Dupuy, assignors.)
Landauer, Leo L., Dallas, Tex. Air conditioning apparatus. 1,924,447; Aug. 29.
Langguth, Wilhelm, Boblingen in Wurtemberg, Germany. Tailless airplane. 1,924,996; Aug. 29.
Larsh, Everett P., near Dayton, assignor to The Master Electric Company, Dayton, Ohio. Producing motor armatures. 1,925,052; Aug. 29.
Larson, Alfred T., and W. E. Vail, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of carboxylic acids from olefinic hydrocarbons, carbon monoxide, and steam. 1,924,765; Aug. 29.
Laske, Frans, Berlin-Steglitz, Germany. Paint for indicating heat. 1,924,793; Aug. 29.
Lathrop, Elisha E., New York, N. Y. Change speed gearing. 1,924,559; Aug. 29.
Layton, Lowder T. (See Lodge, Edwin W., assignor.)
Lea Fabrics, Inc. (See Buffington, Malcolm, assignor.)
Leben, Henry, Newcastle-upon-Tyne, and N. Cooke, Sunderland, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Electric protective system and relay for use therein. 1,924,247; Aug. 29.
Lee, Roger K., Highland Park, assignor to Chrysler Corporation, Detroit, Mich. Motor mounting. 1,924,504; Aug. 29.
Le Febvre, Clarence C. (See John, H., Le Febvre, and Du Bois.)
Le Gorre, Jean L. (See Lovekin, L. D., and Le Gorre.)
Lehmann, Karl A., and M. Zakowski, Essen, assignors to Fried-Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Counting machine. 1,924,794; Aug. 29.
Lehr, Charles E., Bethlehem, Pa., assignor to Bethlehem Steel Company. Furnace construction. 1,924,936; Aug. 29.
Leib, August, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany. Radio direction finder apparatus. 1,924,408; Aug. 29.
Leighton, John W., Port Huron, Mich. Threaded spring shackle. 1,924,448; Aug. 29.
Leister, Fayette, assignor to The Fafnir Bearing Company, New Britain, Conn. Antifriction bearing. 1,924,937; Aug. 29.
Lemmon, Alexis W. (See Francis, E. V., and Lemmon.)
Leriche, Willis, Allentown, Pa., and I. V. Beasley, Yukon, Okla., assignors to Cement Gun Company. Forming ditch linings. 1,924,560; Aug. 29.
Leubuscher, Frederic H., Verona, N. J. Watercourse, pool, and like construction and method of landscaping and preparing same. 1,924,721; Aug. 29.
Lewellen, Albert R., Detroit, Mich., assignor to Delco-Remy Corporation, Anderson, Ind. Switch mechanism. 1,924,248; Aug. 29.
Lewis Differential Company. (See Tatter, John W., assignor.)
Lewis, Robert B., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Testing machine for beams. 1,924,866; Aug. 29.
Lewis, Roy A., Bethlehem, Pa., assignor to Bethlehem Steel Company. Burner construction. 1,924,938; Aug. 29.
Libbey-Owens-Ford Glass Company. (See Drake, John L., assignor.)
Libbey-Owens-Ford Glass Company. (See Ferngren, Enoch T., assignor.)
Libbey-Owens-Ford Glass Company. (See Watkins, George B., assignor.)
Lieberens, Edward O., Jonesboro, Ark. Roller skate. 1,924,948; Aug. 29.
Lindberg, Raymond C., Bellingham, Wash. Radial gas engine demonstrator. 1,925,040; Aug. 29.
Linde Air Products Company, The. (See Stoffel, O., Roesch, and Sudhaus, assignors.)
Linderman, Garrett B., jr., Erie, Pa., assignor to American Meter Company, New York, N. Y. Orifice meter. 1,924,125; Aug. 29.
Lindgren, Alexus C., Chicago, C. R. Raney, Riverside, and R. B. Hitchcock, Chicago, Ill., assignors to International Harvester Company. Corn picker and husker. 1,925,077; Aug. 29.
Lindgren, Frank A., Western Springs, assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,924,285; Aug. 29.
Lindner, Arthur, Cincinnati, assignor to The Lindner Manufacturing Company, Lockland, Ohio. Clamping device. 1,924,742; Aug. 29.
Lindner Manufacturing Company, The. (See Lindner, Arthur, assignor.)
Lindstrom, Nils O., Nutley, N. J., and L. G. Persson, New York N. Y., assignors to A. B. See Elevator Company, Inc. Cable equalizer. 1,924,690; Aug. 29.
Link-belt Company. (See Sayers, William W., assignor.)
Lion Match Co. (See Van Hoofstadt, Edward, assignor.)
Lipmann, Camille, Besancon, France, A. Strahm, Schramberger, Germany, and A. Quinche, Besancon, France, assignors to N. V. Philips' Gloeilampenfabriken, Eindhoven, Netherlands. Selective receiver. 1,924,795; Aug. 29.
Litle, Thomas J., jr., Indianapolis, Ind., assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Vibration damper for explosion motors. 1,925,074; Aug. 29.
Livesey, William F., Philadelphia, Pa., assignor to E. L. Bruce Company, Memphis, Tenn. Laying wood block flooring. 1,925,070; Aug. 29.
Livingston, Alan V., Englewood, N. J., assignor to The Safety Car Heating & Lighting Company. Regulating apparatus. 1,924,193; Aug. 29.
Ljungstrom, Fredrik, Stockholm, Sweden, assignor, by mesne assignments, to Ped. Incorporated. Control for self-propelled vehicles. 1,924,867; Aug. 29.
Locke Insulator Corporation. (See Rowland, D. H., and Wetsel, assignors.)
Lodge, Edwin W., Haddonfield, N. J., assignor of one-half to Lowder T. Layton, Merion, Pa. Dispensing structure. 1,924,561; Aug. 29.
Loewy, Raymond G. F., New York, assignor to Colonial Radio Corporation, Buffalo, N. Y. Cabinet for radio-receiver. Des. 90,586; Aug. 29.
Lofgren, John, assignor to Balco Manufacturing Company, Chicago, Ill. Safety switch. 1,924,601; Aug. 29.
Lofland, Emil M., Chicago, Ill. Apparatus for production of oxides. 1,924,126; Aug. 29.
Lofland, Emil M., Chicago, Ill. Apparatus for production of oxides. 1,924,127; Aug. 29.
Lombardini, Pietro C., London, England. Water craft. 1,924,949; Aug. 29.
Long, Hubert H., Jackson, Tenn., assignor to Piggly Wiggly Corporation, Cincinnati, Ohio. Vegetable spray counter. 1,924,505; Aug. 29.
Long, Robert B. (See Ohmer, J. F., Long, and Baker.)
Loomis, Crawford C., Ilion, N. Y., assignor to Remington Arms Company, Inc. Firearm. 1,924,692; Aug. 29.
Lorenz, C., Aktiengesellschaft. (See Koch, Otto P., assignor.)
Losey, Malcolm S. (See Hall, Charles Y., assignor.)
Lovekin, Luther D., Villanova, assignor to Kitson Company, Philadelphia, Pa. Gas shut-off fire valve device. 1,924,868; Aug. 29.
Lovekin, Luther D., Villanova, and J. L. Le Gorre, assignors to Kitson Company, Philadelphia, Pa. Protection valve device for water meters and the like. 1,924,869; Aug. 29.

Lovell, Wheeler G., and T. A. Boyd, assignors to General Motors Research Corporation, Detroit, Mich. Removing carbon deposits. 1,924,722; Aug. 29.
Loveluck, Rhys J. (See Thomson, R. F., and Loveluck.)
Lower, Nathan M., Crestwood, near Yonkers, N. Y., A. E. Chalker, Bellevue, and W. G. Bailey, Mount Lebanon, Pa. Bearing mounting for crank shaft and the like. 1,924,562; Aug. 29.
Lowry, Charles D., jr., and C. G. Dryer, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of motor fuel. 1,924,870; Aug. 29.
Locke, Charles E., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Safety valve. 1,924,563; Aug. 29.
Ludington, Charles T., Ardmore, Pa. Boat keel. 1,924,871; Aug. 29.
Luke, Judge R. (See Clark, Andrew B., assignor.)
Lupton's, David, Sons Company. (See Sheard, J. H., and Pollock, assignors.)
Luther, George A., Kansas City, Kans. Voting machine. 1,924,449; Aug. 29.
Lux, Elisabeth, Essen, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa. Preparing refractory material. 1,924,743; Aug. 29.
Lux, Elisabeth, Essen, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa. Preparation of refactory mortar. 1,924,744; Aug. 29.
Lyman, Walter H., and P. F. Fischel, assignors, by mesne assignments, to The International Check Endorser Co., Chicago, Ill. Check indorser. 1,924,693; Aug. 29.
MacDonald, Frank J., Brookline, Mass., assignors to The B. F. Goodrich Company, New York, N. Y. Plastic stock manipulating apparatus. 1,924,210; Aug. 29.
MacDonald, David B. and R. B., Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Method of and machine for preparing shoe stiffeners. 1,924,226; Aug. 29.
MacDonald, Roland B. (See MacDonald, David B. and R. B.)
MacFadden, George J., Quincy, Ill., assignor to Gardner-Denver Company, Denver, Colo. Bearing for eccentrics. 1,924,826; Aug. 29.
Mack Molding Co. (See Burke, James P., assignor.)
Macklanburg, Louis A., Oklahoma City, Okla. Display rack and reel. 1,924,645; Aug. 29.
MacLaren, Frederick H., Calumet City, and T. H. Rogers, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Cylinder oil. 1,924,211; Aug. 29.
Magnavox Company, The. (See Bartlett, Frederick P., assignor.)
Maibach, John J., assignor to Montgomery Ward & Company, New York, N. Y. Textile fabric or similar article. Des. 90,587; Aug. 29.
Maier, Charles, Racine, Wis. Safety mechanism for elevators. 1,924,506; Aug. 29.
Mallory Hat Company, The. (See Reynolds, Ralph K., assignor.)
Mandelko, August W., jr., Fort Dodge, Iowa. Garden tool. 1,924,950; Aug. 29.
Manson, George J., Hawkesbury, Ontario, Canada. Heated die for drying fibrous articles. 1,924,409; Aug. 29.
Mantle Lamp Company of America, The. (See Schwarz, Clarence, assignor.)
Marathon Paper Mills Company. (See Willauer, William R., assignor.)
Marciano, Frank G., assignor to Universal Optical Corporation, Providence, R. I. Eyeglass frame. 1,924,951; Aug. 29.
Marcum, Arthur I., Oakland, Calif., assignor, by mesne assignments, to Automotive Engineering Corporation. Vehicle driving mechanism. 1,924,646; Aug. 29.
Mariotti, Joseph J., assignor to Daprato Statuary Company, Chicago, Ill. Tabernacle. 1,924,365; Aug. 29.
Marker, Charles E., assignor to Chrysler Corporation, Detroit, Mich. Forming separable plated coatings on metal surfaces. 1,924,410; Aug. 29.
Markowsky, Alfred, Woodbridge, N. J. Method and compound for repelling insects. 1,924,507; Aug. 29.
Marshall, Harry H., Detroit, Mich. Door control mechanism. 1,924,450; Aug. 29.
Marshall, Margaret, Vancouver, British Columbia, Canada. Dust bag. 1,924,249; Aug. 29.
Marsteller, Lester O., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Reactor. 1,924,366; Aug. 29.
Maschinenfabrik Augsburg-Nurnberg A. G. (See Jagschitz, Konrad, assignor.)
Mason, Archibald O., Highland Park, Ill. Manufacturing zinc oxide. 1,924,872; Aug. 29.
Mason, William H., assignor to Masonite Corporation, Laurel, Miss. Cut-off machine. 1,924,162; Aug. 29.
Masonite Corporation. (See Mason, William H., assignor.)
Massino, Cesar A. M., assignor of fifty per cent to A. M. and T. J. Acosta, Habana, Cuba. Implement handle. 1,925,652; Aug. 29.
Master Electric Company, The. (See Larsh, Everett P., assignor.)
Matalon, Joseph. (See Shaloun, E., and Matalon.)
Matthews Conveyer Company. (See Anderson, Martin J., assignor.)
Mattress, Wilfred B., assignor to United Mattress Machinery Company, Quincy, Mass. Tufting button. 1,924,212; Aug. 29.

Mathieson Alkali Works, The. (See Michalek, John C., assignor.)
Mathieson Alkali Works, Inc., The. (See Treasler, Donald K., assignor.)
Matthews, William V., McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric fan. Des. 90,588; Aug. 29.
Mattingly, Harold W., Swissvale, and W. F. Hames, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Elevator control system. 1,924,327; Aug. 29.
Mavor & Coulson Limited. (See Thomson, James, assignor.)
Maxwell, William H. (See Baash, L. F., and Maxwell.)
May, Karl P. (See Gehrig, Carl, assignor.)
Maybach, Karl, assignor to Maybach-Motorenbau G. m. b. H., Friedrichshafen, Bodensee, Germany. Change speed gear. 1,924,128; Aug. 29.
Maybach-Motorenbau G. m. b. H. (See Maybach, Karl, assignor.)
McAdoo & Allen Welting Company. (See Brown, William, assignor.)
McBride, Robert R. (See Harm, G. O., and McBride.)
McCabe, Ira E. (See Williams, W. W., and McCabe.)
McCandless, Estella S., Highland Park, Mich. Curling iron. 1,924,939; Aug. 29.
McCarthy, John J., Malden, Mass. Variable speed transmission mechanism. 1,924,506; Aug. 29.
McClarkey, Roy, Valley, Nebr. Bowl-holder for melted solder. 1,924,451; Aug. 29.
McClintock, James W. (See Bowles, H., and McClintock.)
McCorkindale, William P., South Hadley Falls, assignor to Esleeck Manufacturing Company, Turners Falls, Mass. Paper drying apparatus of the festoon type. 1,924,012; Aug. 29.
McCormick, Harold V., Evanston, Ill., assignor to Westinghouse Electric Elevator Company. Elevator system. 1,924,367; Aug. 29.
McCullough, Frederick S., Wilkinsburg, Pa. Vacuum tube. 1,924,368; Aug. 29.
McDonald, Eugene G., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,924,618; Aug. 29.
McElroy, Thomas L., Brooklyn, N. Y. Blanket for printing presses and making the same. 1,924,328; Aug. 29.
McGilinch, Lowell A., Versailles, Ohio. Corn planter attachment. 1,924,509; Aug. 29.
McGrail, Thomas R., Montreal, Quebec, Canada. Radiator. 1,924,998; Aug. 29.
McGregor, Clarence E., assignor to Service Station Equipment Company, Conshohocken, Pa. Thermostat. 1,924,647; Aug. 29.
McGuire, Irving J., Dolgeville, N. Y., assignor of thirty hundredths to F. W. Walden, Toledo, Ohio. Automatic drain valve. 1,924,250; Aug. 29.
McGuire, Irving J., Dolgeville, N. Y. Automatic drain valve. 1,924,251; Aug. 29.
McGurl, Gilbert V., Chicago, Ill., assignor to The Koppers Company of Delaware. Marking coke. 1,924,194; Aug. 29.
McIntire, James F., assignor to United States Radiator Corporation, Detroit, Mich. Radiator construction. 1,924,952; Aug. 29.
McKiunis, George E., jr. (See Price, Frederick, assignor.)
McMartin, Thomas B., et al. (See Morton, James E., assignor.)
McMaster, Archie J., assignor to G-M Laboratories, Inc., Chicago, Ill. Photoelectric tube. 1,925,054; Aug. 29.
McNicol, Alexander and A., and L. A. Gill, Jewett City, Conn., and S. B. Stafford, Oxford, assignor to Rice, Barton & Fales, Incorporated, Worcester, Mass. Intermittent color textile printing machine. 1,924,614; Aug. 29.
McNicol, Andrew. (See McNicol, Alexander, and A., Gill, and Stafford.)
McVeety, James, et al. (See Morton, James E., assignor.)
McWhirter, William C., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Control apparatus for railway switches. 1,924,369; Aug. 29.
Meadows Manufacturing Company, The. (See Unruh, Cornelius C. assignor.)
Meissner, Alexander, Berlin, Germany, assignor, by mesne assignments, to The United States of America, represented by the Secretary of the Navy. Production of waves by cathode ray tubes. 1,924,796; Aug. 29.
Mendel, Albert W., Pittsburgh, Pa. Antiskid chain. 1,924,286; Aug. 29.
Mercer, Richard, Harrow, and F. Tench, West Norwood, London, England, assignors, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. Re18,927; Aug. 29.
Mercker, Stanley M., Grandview, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Safety lock. 1,925,023; Aug. 29.
Merley, Sylvan E., Dover, N. J., assignor to Doherty Research Company, New York, N. Y. Manufacturing organic esters. 1,924,616; Aug. 29.
Merley, Sylvan E., Dover, N. J., and O. Spring, Okmulgee, Okla., assignors to Doherty Research Company, New York, N. Y. Manufacture of esters. 1,924,615; Aug. 29.
Merriam, Edmund S., Marietta, Ohio. Preformed abrasive and producing the same. 1,924,648; Aug. 29.
Merrifield, Richard. (See Burkle, Robert, assignor.)

Mershon, Ralph D. (See Hammond, Laurens, assignor.)
Metals Research Syndicate. (See Sparks, Stanley W., assignor.)
Metro-Goldwyn-Mayer Corporation. (See Gibbons, C., and Tate, assignors.)
Metropolitan Engineering Company. (See Freiday, Jay A., assignor.)
Michaels, Lawrence, Covington, Ky. Window and store sash. 1,924,694; Aug. 29.
Michalek, John C., Niagara Falls, assignor to The Mathieson Alkali Works, New York, N. Y. Separation of iron and chromium chlorides. 1,924,129; Aug. 29.
Micro Corporation, The. (See York, H. H., and Kottman, assignors.)
Micromatic Hone Corporation. (See Kowalski, Joseph B., assignor.)
Migliaccio, Christopher L. (See Everett, H. C., and Migliaccio.)
Mihalyi, Joseph, Rochester, and W. D. Teague, New York, assignors to Eastman Kodak Company, Rochester, N. Y. Camera casing. Des. 90,589; Aug. 29.
Miles, Horace H., San Francisco, Calif. Dispensing device for collapsible tubes. 1,924,195; Aug. 29.
Millan, Edward N., and P. C. Jones, assignors to The America Rolling Mill Company, Middletown, Ohio. Conveying mechanism for furnaces and the like. 1,924,452; Aug. 29.
Miller, Clarke C., Wood River, assignor to Standard Oil Company, Chicago, Ill. Stabilization of naphtha. 1,924,196; Aug. 29.
Miller, Henry J., Chicago, Ill. Electrode elements of vacuum tubes. 1,925,075; Aug. 29.
Miller, Henry J., Chicago, Ill. Cleaning and regenerating compound for electronic tubes. 1,925,076; Aug. 29.
Miller, Lee R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Latex glove. 1,924,617; Aug. 29.
Miller, Stuart P., Englewood, N. J., assignor to The Barrett Company, New York, N. Y. Distillation of tar. 1,924,163; Aug. 29.
Mills, Bert E., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Protective device for control circuit of electric phonograph or the like. 1,924,619; Aug. 29.
Mills, Bert E., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Remote control selective device for automatic multiple-record phonographs or the like. 1,924,620; Aug. 29.
Mills, Fred L., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Coin slide. 1,924,618; Aug. 29.
Mills Novelty Company. (See Mills, Bert E., assignor.)
Mills Novelty Company. (See Mills, Fred L., assignor.)
Mills, Sanford. (See Spring, Walter M., assignor.)
Mills, Wallace C., assignor to J. L. Clark Manufacturing Co., Rockford, Ill. Container. 1,924,999; Aug. 29.
Minneapolis-Honeywell Regulator Company. (See Bower, George D., assignor.)
Minneapolis-Honeywell Regulator Company. (See Grant, Arthur C., assignor.)
Mishawaka Rubber and Woolen Manufacturing Company. (See Ferrettie, Conrad, assignor.)
Mishawaka Rubber and Woolen Manufacturing Company. (See Taber, John E., assignor.)
Mitchell, Archelus H., Selma, Ala. Motor vehicle. 1,924,797; Aug. 29.
Mize, George G., assignor to Diamond Chain and Manufacturing Company, Indianapolis, Ind. Chain. 1,925,055; Aug. 29.
Monroe, Stanley G., and F. Shepherd, Akron, Ohio. Fly swatter. Des. 90,590; Aug. 29.
Monsanto Chemical Company. (See Carswell, Thomas S., assignor.)
Montgomery Ward & Company. (See Maibach, John J., assignor.)
Montigel, James E., Redlands, Calif. Plastic pipe forming machine. 1,924,798; Aug. 29.
Moone, Albert E. F., assignor to Orenda Corporation, Chicago, Ill. Machine for making packing material. 1,924,873; Aug. 29.
Moore, Arthur M., Goshen, N. Y. Eaves-trough clamping tool. 1,924,799; Aug. 29.
Moore, Harry E. (See Himmelberger, William H., assignor.)
Moore, Thomas E., assignor to Ransom & Randolph Company, Toledo, Ohio. Method of making dental castings and composition employed in said method. 1,924,874; Aug. 29.
Moraine Products Company. (See Davis, James H., assignor.)
Morgan, John D., Maplewood, N. J., assignor to Doherty Research Company, New York, N. Y. Coating refractories with metal. 1,924,876; Aug. 29.
Morrison Bros. (See Glab, William N., assignor.)
Morse, Homer F., Fort Morgan, Colo. Table. 1,924,958; Aug. 29.
Morton, James, West Lothian, Scotland. Warp knitting machine. 1,924,649; Aug. 29.
Morton, James E., Harvey, Ill., assignor of one-half to J. H. McVeety, Memphis, Tenn., ten one-hundredths to W. J. Aitken and T. B. McMartin. Automobile parking tower. 1,924,130; Aug. 29.
Moser, Julius G., San Francisco, Calif. Window ventilator. 1,924,441; Aug. 29.
Mossberg, Frank, Attleboro, Mass. Bobbin. 1,924,745; Aug. 29.

Mueller, Hans, assignor to J. M. Voith, Heidenheim-on-the-Brenz, Wurttemburg, Germany. Cavitation free fluid joint. 1,924,621; Aug. 29.
Müller, Josef, Weissenstein-ob-der-Drau, Austria. Apparatus for obtaining hydrogen peroxide by distillation. 1,924,954; Aug. 29.
Mullins, Ernest E. E., Stockport, England. Remote control apparatus for power driven boats. 1,925,000; Aug. 29.
Murray, Howard J., New York, N. Y., assignor to R. M. Company, Inc., East Pittsburgh, Pa. Shrouded synchroniser. 1,924,875; Aug. 29.
Muth, John E., Berkeley, assignor to Standard Oil Company of California, San Francisco, Calif. Manufacturing iron tetracarbonyl. 1,924,453; Aug. 29.
N. V. Machinefabriek Reineveld. (See Stoffel, Simon H., assignor.)
N. V. Philips Gloeilampenfabriken. (See Lipmann, C., Strahm, and Quinche, assignors.)
Naamlooze Vennootschap Maatschappij tot Veraardiging van Snijmachines volgens Van Berkel's Patent en van andere Werktuigen. (See Van Berkel, Johannes C., assignor.)
National Aniline and Chemical Company. (See Rogers, Donald G., assignor.)
National Carbon Company. (See Heise, George W., assignor.)
National Cash Register Company. (See Green, Charles W., assignor.)
National Cash Register Company, The. (See Robertson, William H., assignor.)
National Cash Register Company, The. (See Scott, H. B., and Warner, assignors.)
National Enameling & Stamping Company. (See Smith, Alva T., assignor.)
National Malleable and Steel Castings Company. (See Buckius, Albert O., assignor.)
National Supply & Service Corporation. (See Johnson, John A., assignor.)
Nederlandsche Technische Handel Maatschappij Giro. (See Anschütz-Kaempfe, Hermann, assignor.)
Neelmeier, Wilhelm, T. Nocken, and H. Friedrich, Leverkusen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline Works, Inc., New York, N. Y. Alkylated acidyl polyalkylene polyamines. 1,924,698; Aug. 29.
Neifert, Raymond E., Brooklyn, assignor to J. A. Deknatel & Son, Inc., New York, N. Y. Display device. 1,924,955; Aug. 29.
Nemenyi, Lajos, now by judicial change of name, L. I. Northon, Mount Vernon, N. Y. Steam heating system. 1,924,870; Aug. 29.
Newman, William P., Bucyrus, Ohio. Stepladder. 1,924,218; Aug. 29.
Newton, Edwin B., assignor to American Anode, Inc., Akron, Ohio. Making articles from rubber dispersions. 1,924,214; Aug. 29.
Nicham, William, New York, N. Y. Theft prevention device. 1,924,746; Aug. 29.
Nichols, Elmer L., Boston, assignor to R. W. Babson, Wellesley, Mass. Parking meter. 1,924,564; Aug. 29.
Nicholson, Frank H., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 1,924,215; Aug. 29.
Nickerson, Dorothy, Washington, D. C. Apparatus for measuring color. 1,924,747; Aug. 29.
Nineteen Hundred Corporation. (See Behan, Thomas W., assignor.)
Nitricastiron Corporation, The. (See Babinet, Marie L. A., assignor.)
Nixon, Thomas M., assignor to Celluloids Limited, Victoria, British Columbia, Canada. Celluloid embossing process. 1,924,800; Aug. 29.
Nocken, Theodor. (See Neelmeier, W., Nocken, and Friedrich.)
Northon, Louis I. (See Nemenyi, Lajos.)
Norton, Raymond J., Washington, D. C., assignor to Bendix Brake Company, South Bend, Ind. Brake apparatus. 1,924,622; Aug. 29.
Norviel, Harry E., assignor to Delco-Remy Corporation, Anderson, Ind. Electric switch. 1,924,252; Aug. 29.
Novocol Chemical Mfg. Co., Inc. (See Goldberg, Samuel D., assignor.)
Novotny, Emil E., Philadelphia, Pa., and J. N. Kunsick, Passaic, N. J., assignors of one-half to John S. Stokes, Huntington Valley, Pa., and one-half to Raybestos-Manhattan, Inc., Passaic, N. J. Abrasive body and making the same. 1,924,748; Aug. 29.
Nowak, Alexander J., Milwaukee, Wis. Automatic clutch. 1,924,728; Aug. 29.
Nunnery, Norman E., Headland, Ala. Cultivator. 1,924,956; Aug. 29.
O. K. Tool Company, The. (See Severson, Ole, assignor.)
Oberg, Algot B. (See Baker, G. L., and Oberg.)
Ohio Art Company, The. (See Winseler, Henry S., assignor.)
Ohmer Fare Register Company. (See Ohmer, J. F., Long, and Baker, assignors.)
Ohmer Fare Register Company. (See Tingley, Bruce H., assignor.)
Ohmer, John F., R. B. Long, and H. W. Baker, assignors to Ohmer Fare Register Company, Dayton, Ohio. Printing register. 1,924,565; Aug. 29.

Old Colony Distributing Company. (See Everett, H. C., jr., and Migliaccio, assignors.)
O'Leary Mildred G., Spokane, Wash. Confection. Des. 90,561; Aug. 29.
Olmsted, Russell C., Cliffside, N. J. Concrete building. 1,924,801; Aug. 29.
Olney, Harry B., assignor to C. M. Reed, East Chicago, Ind. Concrete wall and building and finishing same. 1,924,724; Aug. 29.
Olson, Carl G., assignor to Shakeproof Lock Washer Company, Chicago, Ill. Lock washer assembly. 1,924,695; Aug. 29.
Oram, John E. (See Foster, C. E., and Oram.)
Orenda Corporation. (See Moone, Albert E. F., assignor.)
Orpen, William H., Brooklyn, N. Y. Shock absorber. 1,924,802; Aug. 29.
Orr, Melville L., Cincinnati, Ohio. Combined cane and popgun. 1,924,957; Aug. 29.
Orthner, Ludwig, Leverkusen-I. G. Werk, E. Zaucker, and M. Bögemann, Cologne-Mulheim-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Vulcanization accelerator. 1,924,566; Aug. 29.
Orthner, Ludwig, Leverkusen-I. G. Werk, and M. Bögemann, Cologne-Mulheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Vulcanization accelerator. 1,924,567; Aug. 29.
Ostermann, Rudolf M., Kenilworth, Ill., assignor to The Superheater Company, New York, N. Y. Boiler. 1,924,877; Aug. 29.
Outrite Fire Extinguisher Corporation, The. (See Gilleo, Jacie J., assignor.)
Outserts, Inc. (See Brown, Robert R., assignor.)
Ovitz, Nathan, assignor to J. C. Welwood Corp., New York, N. Y. Display case. 1,924,371; Aug. 29.
P-G Publishing Company. (See Barnes, Jacob C., assignor.)
Package Machinery Company. (See Smith, Elmer L., assignor.)
Packard Motor Car Company. (See Brown, Robert N., assignor.)
Packard Motor Car Company. (See Christman, John M., assignor.)
Packard Motor Car Company. (See Edwards, Herbert C., assignor.)
Packard Motor Car Company. (See Griswold, Walter R., assignor.)
Packard Motor Car Company. (See Gunn, Earl G., assignor.)
Packard Motor Car Company. (See Litle, Thomas J., jr., assignor.)
Paffen, Paul J. (See Woodcock, J. C., and Paffen.)
Painter-De Liso Inc. (See De Liso, Vincent, assignor.)
Paper Patents Company. (See John, H., Le Febvre, and Du Bois, assignors.)
Paquin, Max, Konigstein-on-the-Taunus, assignor to I. G. Farbindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Condensation product from urea and an alcohol or a ketone and preparing them. 1,924,253; Aug. 29.
Paradise, Morris E., assignor to Grigsby-Grunow Company, Chicago, Ill. Loud speaker. 1,924,803; Aug. 29.
Parker, Henry C. (See Thompson, Louis T. E., assignor.)
Parks, Edward F., Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Yarn-support or cop-tube. 1,924,510; Aug. 29.
Parry, Richard W., Cincinnati, Ohio. Method and apparatus for burning puverized fuel. 1,924,878; Aug. 29.
Paschke, Fritz, Cologne, and P. Franken, Cologne-Nippes, assignors to Glanzstoff-Courtaulds G. m. b. H., Cologne-Merheim, Germany. Supporting means for artificial silk. 1,924,749; Aug. 29.
Pasternack, Aaron I. and D. G., Philadelphia, Pa. Folding chair. 1,924,329; Aug. 29.
Pasternack, David G. (See Pasternack, Aaron I. and D. G.)
Patent and Licensing Corporation, The. (See Payne, Gerald B., assignor.)
Patent and Security Holding Corporation. (See Grayson, H. V., assignor, and Ballenger.)
Patterson, Augustus M., assignor of one-fourth to J. W. Byrd, and one-fourth to J. I. Byrd, Seneca, S. C. Valve seat grinder. 1,924,958; Aug. 29.
Patterson, Luther M., jr., New Philadelphia, Ohio. Storage battery apparatus. 1,924,959; Aug. 29.
Patterson, William G., and E. J. Gachet, assignors to Siemens Brothers & Company Limited, London, England. Automatic switch for use in telephone or like systems. 1,924,454; Aug. 29.
Paulus, Joseph. Union, N. J. Magazine or book stand. 1,924,568; Aug. 29.
Payne, Gerald B., Scranton, Pa., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass. Siding material. 1,924,650; Aug. 29.
Payne, Oscar V. (See Howe, W. C., and Payne.)
Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electrical feeler. 1,924,197; Aug. 29.
Pearson, Donald M., Oakland, Calif. Electrically operated pumping apparatus. 1,924,412; Aug. 29.
Pedl, Incorporated. (See Ljungstrom, Fredrick, assignor.)
Penney, Walter J., West Haven, Conn. Light dimmer. 1,925,001; Aug. 29.
Pennsylvania Railroad Company, The. (See Gray, William E., assignor.)
Penote, Augustus J., Shaker Heights, Ohio. Swinging conveyer mechanism. 1,924,455; Aug. 29.
Pepper, Byron J., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind. Equipment for dispensing lubricating oil and other liquids. 1,925,056; Aug. 29.
Perkins, Melvin A., Carney's Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Intermediate and dyestuff of the dibenzanthrone series. 1,924,456; Aug. 29.
Persson, Lars G. (See Lindstrom, N. O., and Persson.)
Peteler, Adolph, Freeport, N. Y. Shock absorber. 1,924,372; Aug. 29.
Peteler, Adolph, Freeport, N. Y. Shock absorber and valve therefor. 1,924,373; Aug. 29.
Peteler, Adolph, Freeport, N. Y. Shock absorber and thermostat therefor. 1,924,374; Aug. 29.
Petersen, Carl M., assignor to Circle Mfg. Co., Trenton, N. J. Socket shell construction. 1,924,750; Aug. 29.
Petersen, Edgar G., assignor to Pines Winterfront Company, Chicago, Ill. Cooling-air flow control for vehicle-engines. 1,924,654; Aug. 29.
Peterson, Conrad E., Malden, Mass. Stick of chewing gum. Des. 90,592; Aug. 29.
Peterson, Gustav E., Astoria, Oreg. Sand box. 1,924,511; Aug. 29.
Pew, Arthur E., jr., Bryn Mawr, assignor to Sun Oil Company, Philadelphia, Pa. Oil distillation apparatus. 1,924,879; Aug. 29.
Phinney, Edward D., Mount Vernon, N. Y. Speedometer. 1,924,418; Aug. 29.
Piazze, Thomas E. (See Jones, L. L., and Piazze.)
Piazze, Thomas E., Brooklyn, assignor to Technidyne Corporation, New York, N. Y. Phonograph. 1,924,287; Aug. 29.
Pieczentkowski, Albert G., East Providence, assignor to Providence Braid Company, Pawtucket, R. I. Method of and apparatus for transferring strand-like articles. strand-like articles. 1,924,164; Aug. 29.
Piganeau, Gerard P., Clichy, France. Servo-brake of the centrifugal type. 1,924,254; Aug. 29.
Piggly Wiggly Corporation. (See Long, Hubert H., assignor.)
Pike, Otis W., Schenectady, N. Y., assignor to General Electric Company. Cathode structure for thermionic devices. 1,924,375; Aug. 29.
Pines Winterfront Company. (See Petersen, Edgar G., assignor.)
Pioneer Instrument Company. (See Weber, Philip, assignor.)
Plock, Albert F., Niagara Falls, N. Y. Making stainless steel. 1,924,804; Aug. 29.
Pneumatic Drop Hammer Company. (See Fitzgerald, William H. J. and R. P., assignors.)
Pogue, Robert B., Chicago, Ill., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Brake shoe mounting. 1,924,376; Aug. 29.
Pollock, Benjamin H. (See Sheard, J. H., and Pollock.)
Pontow, Werner, Berlin-Wilmersdorf, Germany, assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,924,377; Aug. 29.
Porreca, Dominick, Atlanta, Ga. Trousers protector. 1,924,512; Aug. 29.
Porter, Horatio A., South Hadley Falls, Mass. Extensible fire ladder. 1,924,751; Aug. 29.
Potter, Pierce & Scheffler. (See Crouse, George B., assignor.)
Powers, John H., assignor to R. E. Ward, Chicago, Ill. Multiple typewriter system. 1,924,655; Aug. 29.
Prat, Emile, Paris, France. Machine for tentering and drying fabrics. 1,924,255; Aug. 29.
Prentiss Wabers Products Co. (See Yeager, Anton J., assignor.)
Price, Frederick, Maud, assignor of one-half to G. E. McKinnis, jr., Shawnee, Okla. Starting motor for internal combustion engines. 1,925,057; Aug. 29.
Priest, Martin G. T., assignor to Priest's Brake Development Company, Limited, New Plymouth, New Zealand. Brake or clutch. 1,925,004; Aug. 29.
Priest's Brake Development Company. (See Priest, Martin G. T., assignor.)
Prouty, Jason, Hillpoint, Wis. Nonclogging harrow. 1,924,960; Aug. 29.
Providence Braid Company. (See Pieczentkowski, Albert G., assignor.)
Pucunas, John, Los Angeles, Calif. Headlight. Des. 90,593; Aug. 29.
Puening, Frans, O'Hara Township, Allegheny County, Pa. Apparatus for and method of producing coke. 1,924,198; Aug. 29.
Pyrene-Minimax Corporation. (See Timpson, Lewis G. M., assignor.)
Quinche, Albert. (See Lipmann, C., Strahm, and Quinche.)
R. M. Company. (See Murray, Howard J., assignor.)
Radio Corporation of America. (See Browne, Cecil O., assignor.)
Radio Corporation of America. (See Goldsmith, Alfred N., assignor.)
Radio Corporation of America. (See Tillyer, Edgar D., assignor.)
Radio-Keith-Orpheum Corporation. (See Dreher, Carl, assignor.)

Ragsdale, Earl J. W., Norristown, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Open truss girder. 1,924,880; Aug. 29.
Ragsdale, Earl J. W., Norristown, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Open truss girder. 1,924,881; Aug. 29.
Ralco Manufacturing Company. (See Lofgren, John, assignor.)
Raney, Clemma R. (See Lindgren, A. C., Raney, and Hitchcock.)
Ransom & Randolph Company. (See Moore, Thomas E., assignor.)
Ranne, Lawrence J. (See Franz, John W., assignor.)
Rattle, Joseph M., Pawtucket, R. I. Sewing machine needle. 1,924,878; Aug. 29.
Raybestos-Manhattan, Inc., et al. (See Novotny, E. E., and Kusmick, assignors.)
Rea, Pamela F. (See Rea, William V., and P. F.)
Rea, William V. and P. R., Calumet City, Ill. Sanitary toilet seat pack and container. 1,924,513; Aug. 29.
Reardon, Harvey J., Chicago, Ill. Printing press. 1,924,288; Aug. 29.
Reddig, Charles E., Kew Gardens, assignor to Graybar Electric Company, Inc., New York, N. Y. Combination washing and drying machine. 1,925,038; Aug. 29.
Redman, Lawrence V. and A. J. Weith, Caldwell, N. J., and F. P. Brock, Hinsdale, Ill., assignors to Bakelite Corporation, New York, N. Y. Phenolic condensation product and producing same. 1,924,514; Aug. 29.
Reed, Charles M. (See Olney, Harry B., assignor.)
Reeder, Frank C., assignor to The Fulton Syphon Company, Knoxville, Tenn. Pasteurization. 1,925,002; Aug. 29.
Reekers, Andrew, Portland, Oreg. Fastener. 1,924,165; Aug. 29.
Reese, James A., Waynesburg, Pa. Trap. 1,924,379; Aug. 29.
Reese, Thomas S., Cleveland, Ohio. Mounting decorations. 1,924,961; Aug. 29.
Reilly, Peter C. (See Hansen, Mahlin S., assignor.)
Reinke, Floyd C., assignor to Air-O-Cel, Inc., Detroit, Mich. Building wall construction. 1,924,515; Aug. 29.
Remington Arms Company. (See Loomis, Crawford C., assignor.)
Renner, Alfred, Berlin-Tegel, Germany, assignor to General Electric Company. Internal combustion engine. 1,925,003; Aug. 29.
Revere Copper and Brass Incorporated. (See Wilkins, Richard A., assignor.)
Revere Rubber Company. (See Gibbons, Willis A., assignor.)
Reynolds, Edward M. (See Bailey, A. S., and Reynolds.)
Reynolds, Ralph K., assignor to The Mallory Hat Company, Danbury, Conn. Hat and hat-making art. 1,924,289; Aug. 29.
Reyrolle, A., & Company. (See Leben, H., and Cooke, assignors.)
Ribe, Léon, Saint-Etienne (Loire), France. Superposed barrel, breech-loading firearm. 1,924,656; Aug. 29.
Rice, Barton & Fales, Incorporated. (See McNicol, A., McNicol, Gill, and Stafford, assignors.)
Richards, Henry I., Cambridge, Mass. Self-feeding pencil. 1,924,256; Aug. 29.
Richardson Company, The. (See Fisher, Harry C., assignor.)
Richardson Company, The. (See Keller, Charles L., assignor.)
Richter, George A., assignor to Brown Company, Berlin, N. H. Refinement of cellulose fiber. 1,924,628; Aug. 29.
Richter, Hans R. (See Geffcken, H. H., and Richter.)
Richter, Otto, Gary, Ind. Aircraft. 1,924,651; Aug. 29.
Rideout, Theodore B., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gear wheel lapping tool. 1,924,380; Aug. 29.
Rider, Rowland W., assignor to Utah Royalty Corporation, Salt Lake City, Utah. Converting motion and the like. 1,924,516; Aug. 29.
Ring, Harry S., Chicago, Ill. Building structure. 1,924,414; Aug. 29.
Ringwald, Clarence, North Hampton, assignor to Robbins & Myers, Inc., Springfield, Ohio. Electrical contact. 1,924,415; Aug. 29.
Rising, Walter H., Painted Post, assignor to Corning Glass Works, Corning, N. Y. Heat resisting glass giving daylight effects. 1,924,752; Aug. 29.
Rivas, Raul L., and E. Iribarne, assignors to J. Bossart, Buenos Aires, Argentina. Combined weighing scale and loud speaker. 1,924,652; Aug. 29.
Robbins & Myers, Inc. (See Ringwald, Clarence, assignor.)
Robert, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,924,290; Aug. 29.
Roberts, William R., Harrow, England. Capping machine. 1,924,753; Aug. 29.
Roddel, Edd. Parker, S. Dak. Cleaner for implement wheels. 1,924,626; Aug. 29.
Roesch, Carl. (See Stoffel, O., Roesch, and Sudhaus.)
Roesen, Oscar C., Brooklyn, assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Production controller. 1,924,624; Aug. 29.
Roesen, Oscar C., Eastchester, assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Press drive. 1,924,625; Aug. 29.
Roessner, William L., Denver, Colo. Container for fire extinguishers. 1,924,882; Aug. 24.
Rogers, Donald G., Hamburg, assignor to National Aniline and Chemical Company, Inc., New York, N. Y. Production of nitro-sulphonic acids of polyhydroxyanthraquinones. 1,924,166; Aug. 29.
Rogers, Lewis H., assignor to Knox Terpesone Company of America, New York, N. Y. Apparatus for the production of gaseous osonides. 1,924,805; Aug. 29.
Rogers, Thomas H. (See MacLaren, F. H., and Rogers.)
Rolfs, Inc. (See Wege, Philip, assignor.)
Rome Company, The. (See Barnard, Dean S., assignor.)
Rose, Bruce E., Porterville, Calif. Offset harrow. 1,924,416; Aug. 29.
Rose, Harold J., Penn Township, Allegheny County, and W. H. Hill, assignors to The Koppers Company, Pittsburgh, Pa. Coal treatment process. 1,925,005; Aug. 29.
Roseman, Leo, Newark, N. J. Automatic feed for hook fasteners. 1,924,569; Aug. 29.
Rosenbaum, Josef, Gelsenkirchen, Germany. Machine for working wheel, roller, and like blanks. 1,924,962; Aug. 29.
Rosenberg, David H., New York, N. Y. Bracket for curtain rods. 1,924,291; Aug. 29.
Rosenwald, Isidor, Parksville, assignor of one-third to M. Belous, Brooklyn, and one-tenth to B. Kirschstein, New York, N. Y. Briquette and binder for the same. 1,924,457; Aug. 29.
Ross, Frederick N., and B. F. Everitt, assignors to Briggs Manufacturing Company, Detroit, Mich. Cloth forming mechanism. 1,924,267; Aug. 29.
Ross, Frederick N., Grosse Pointe Park, and H. L. Johnson, assignors to Briggs Manufacturing Company, Detroit, Mich. Method of and machine for manufacturing upholstery. 1,924,268; Aug. 29.
Ross, Julius. (See Schuelke, E. A., and Ross.)
Ross, Walter, Flushing, N. Y. Audible figure toy. 1,925,006; Aug. 29.
Rothman, Albert, New York, N. Y. Metal floor grating. 1,924,570; Aug. 29.
Rowe, Howard J., Lakewood, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloys. 1,924,725; Aug. 29.
Rowe, Howard J., Lakewood, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. 1,924,726; Aug. 29.
Rowe, Howard J., Lakewood, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. 1,924,727; Aug. 29.
Rowland, Davidge H., and K. Wetzel, assignors to Locke Insulator Corporation, Baltimore, Md. Forming plastic clay masses. 1,925,068; Aug. 29.
Rowles, Sidney G., Orpington, assignor of one-half to P. R. Fender, London, England. Rotary folder for paper-bag making and similar machines. 1,924,754; Aug. 29.
Rowley, Arthur C., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Fusible unit. 1,925,007; Aug. 29.
Royal Baking Powder Company. (See Stokes, W. E., and Whittier, assignors.)
Rubber Service Laboratories Co., The. (See Scott, Winfield, assignor.)
Rubin, Samuel M., Kansas City, Mo. Ledger card. 1,924,755; Aug. 29.
Ruffner, Edward W., Mason, assignor of one-half to G. I. Danks, Edgewood, Ill. Harrow. 1,924,517; Aug. 29.
Ruggles, William A. (See Hull, A. W., and Ruggles.)
Rushton, Eugene R., Montgomery, Ala. Producing insecticides. 1,924,518; Aug. 29.
Russell, Andrew N., Montreal, Quebec, assignor to Dominion Engineering Works Limited, Lachine, Canada. Vacuum seal for driers. 1,924,883; Aug. 29.
Ruths, Johannes, Djursholm, Sweden. Power plant. 1,925,078; Aug. 29.
Ryan, James P., Easthampton, Mass. Valve. 1,924,417; Aug. 29.
Ryder, John D., Cleveland, Ohio, assignor to Bailey Meter Company. Motor control circuit. 1,924,458; Aug. 29.
Ryder, John D., Cleveland, Ohio, assignor to Bailey Meter Company. Motor control circuit. 1,924,459; Aug. 29.
S. & S. Cone Corporation. (See Shaloum, E., and Matalon, assignors.)
Sachs, Joseph, Pittsburgh, Pa. Flush valve rod. 1,924,881; Aug. 29.
Sack, Ernest A., Neuilly-sur-Seine, assignor to Compagnie Nationale de Matieres Colorantes & Manufactures de Produits Chimiques du Nord Reunies, Etablissements Kuhlmann, Paris, France. Manufacture of dyes containing chromium and the resulting product. 1,924,696; Aug. 29.
Saco-Lowell Shops. (See Banfield, F. E., jr., and Albrecht, assignors.)
Sadinoff, Max, Brooklyn, N. Y. Curtain or the like. Des. 90,562; Aug. 29.
Safety Car Heating & Lighting Company, The. (See Livingston, Alan V., assignor.)
Sager, John W., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Counting mechanism. 1,924,571; Aug. 29.

Saine, Leonard W., Jackson Heights, and A. Hansen, Newark, N. J., assignors to Central Foundry Company, New York, N. Y. Piping. 1,924,657; Aug. 29.
Samuel, Howard H. Hackettstown, N. J. Road grading apparatus. 1,924,572; Aug. 29.
Sandeman, Edward K., P. R. Thomas, and C. B. Dunham, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Voice current repeater circuits. 1,924,131; Aug. 29.
Sanders, James E., Ardmore, Pa., assignor of one-fourth to Guy T. Holcombe. Brake and motor tester. 1,924,658; Aug. 29.
Sanford Mills. (See Higgins, Frank H., assignor.)
Santsaver, Esther L., North Attleboro, Mass. Lingerie strap holder. 1,924,132; Aug. 29.
Sauer, Louis B., Western Springs, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ignition system. 1,924,252; Aug. 29.
Saunders, Addison T., Akron, Ohio, assignor to A. G. Spaulding & Bros., New York, N. Y. Shuttle for badminton and the like. 1,924,259; Aug. 29.
Saunders, Walter S., assignor to The American Forging and Socket Company, Pontiac, Mich. Striker plate. 1,924,806; Aug. 29.
Sawyer, Wilfred D., Long Beach, assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif. Adjustable connection for draw works girt. 1,924,199; Aug. 29.
Sayers, William W., assignor to Link-Belt Company. Guide roll mount. 1,924,807; Aug. 29.
Schacht, William F., Huntington, Ind. Sink stopple. 1,925,008; Aug. 29.
Schafer, George W., Louisville, assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky. Meter and switch mounting support. 1,924,659; Aug. 29.
Schaffer, Max, Springfield, Mass. Table. 1,924,460; Aug. 29.
Schaffert, Adolf H., assignor to Truscon Steel Company, Youngstown, Ohio. Mounting device for concrete wall structures and the like. 1,924,884; Aug. 29.
Schanke, Helmer, Blue Earth, Minn. Attachment for aircraft propellers. 1,924,461; Aug. 29.
Scheeler, Charles A., assignor to Buffalo Wire Works Co., Inc., Buffalo, N. Y. Protective closure. 1,924,330; Aug. 29.
Schellens, Christopher A. (See Schellens, Eugene L., and C. A.)
Schellens, Eugene L., Ridgewood, N. J., and C. A. Schellens, Marblehead, Mass., assignors to C-S Engineering Company, Englewood, N. J. Condensing locomotive. 1,924,341; Aug. 29.
Schemmel, Robert C., Union City, Ind. Finishing welt. 1,924,382; Aug. 29.
Schloz, Arthur H., assignor to The Toledo Machine & Tool Company, Toledo, Ohio. Brake control mechanism. 1,924,808; Aug. 29.
Schmid, Henry J. (See Graves, H. C., jr., and Schmid.)
Schmidgall, Carl H. (See Berkshier, G. F., and Schmidgall.)
Schmidt, Erwin. (See Claus, W., and Schmidt.)
Schnitzer, Louis M., assignor to Empire Silver & Chrome Corp., New York, N. Y. Lamp. Des. 90,594; Aug. 29.
Schoch, Eugene P., Austin, Tex. Treatment of minerals. 1,924,519; Aug. 29.
Schreck, Irvin F., East Cleveland, Ohio. Self loading and unloading truck. 1,924,885; Aug. 29.
Schröter, Fritz, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Current supply means. 1,924,418; Aug. 29.
Schuelke, Emil A., and J. Ross, Meriden, Conn., assignors to The Napier Co. Liquid measuring device. 1,924,809; Aug. 29.
Schüffler, Julius, Essen-Ruhr, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa. Furnace for smelting aluminum. 1,924,200; Aug. 29.
Schüffler, Julius, Essen, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa. Apparatus for smelting aluminium and other light metals. 1,924,201; Aug. 29.
Schuls, Otto C., Riverside, Ill. Surgical plaster package. 1,924,810; Aug. 29.
Schuls, Otto C., Riverside, Ill. Basket ball backstop. 1,924,811; Aug. 29.
Schur, Milton O., assignor to Brown Company, Berlin, N. H. Fibrous web for artificial leathers or the like. 1,924,573; Aug. 29.
Schuttmaat, George W., assignor to Hamilton Manufacturing Company, Hamilton, Mich. Transplanter. 1,924,133; Aug. 29.
Schwarz, Eugene, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp shade. Des. 90,595; Aug. 29.
Schwarz, Eugene, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp shade. Des. 90,596; Aug. 29.
Schwarz, Eugene, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp shade. Des. 90,597; Aug. 29.
Schwarz, Eugene, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp shade. Des. 90,598; Aug. 29.
Schwarz, Eugene, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp shade. Des. 90,599; Aug. 29.
Schwarz, Eugene, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill. Lamp shade. Des. 90,600; Aug. 29.
Schweitzer & Conrad, Inc. (See Conrad, Nicholas J., assignor.)
Scofield, Philip F., Palo Alto, assignor to Heints & Kaufman, Ltd., San Francisco, Calif. Portable current supply. 1,924,462; Aug. 29.
Scott, Howard B., and E. Warner, assignors to The National Cash Register Company, Dayton, Ohio. Engraving machine. 1,924,293; Aug. 29.
Scott, Winfield, Nitro, W. Va., assignor to The Rubber Service Laboratories Co., Akron, Ohio. Vulcanization of rubber. 1,924,574; Aug. 29.
Scottish Dyes Limited. (See Fairweather, D. A. W., and Thomas, assignors.)
Seaquest, Charles L., Portland, Oreg. Book support. Des. 90,601; Aug. 29.
Secoy, Samuel E., assignor of one-half to H. L. Smith, Newcastle, Ind. Change-speed mechanism. 1,924,756; Aug. 29.
Segal, Hymar R., New York, N. Y. Key retainer. 1,924,134; Aug. 29.
Segal, Samuel, Brooklyn, N. Y. Chain lock. 1,924,627; Aug. 29.
Seiberth, Max. (See Hartmann, M., and Seiberth.)
Seinsheimer Paper Company, The. (See Johnson, Samuel J., assignor.)
Sem, Mathias O., Buffalo, N. Y., assignor to Tracy Bartholomew, Pittsburgh, Pa. Treatment of slag. 1,924,728; Aug. 29.
Semon, John B., Philadelphia, Pa. Gauge cock or valve. 1,924,886; Aug. 29.
Service Station Equipment Company. (See McGregor, Clarence E., assignor.)
Severson, Ole, Shelton, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y. Inserted cutting blade lock. 1,924,887; Aug. 29.
Shaeffer, Edward J., G. W. Watts, R. P. Brown, Whiting, Ind., and R. E. Wilson, Chicago, Ill., assignors to Standard Oil Company, Whiting, Ind. Drilling pressure converted products by contained heat. 1,924,820; Aug. 29.
Shaff, Ernest H., assignor to W. H. Keller, Inc., Grand Haven, Mich. Pressure fluid operated tool. 1,924,812; Aug. 29.
Shakeproof Lock Washer Company. (See Olson, Carl F., assignor.)
Shaler, William T., Silver Creek, N. Y. Sack packer. 1,924,202; Aug. 29.
Shaloum, Elie, and J. Matalon, assignors to S. & S. Cone Corporation, New York, N. Y. Ice cream cone machine. 1,924,463; Aug. 29.
Sheard, Joseph H., Philadelphia, and B. H. Pollock, Jenkintown, assignors to David Lupton's Sons Company, Philadelphia, Pa. Window. 1,929,059; Aug. 29.
Shell Oil Company. (See Alden, Herbert O., assignor.)
Shepherd, Frank. (See Monroe, S. G., and Shepherd.)
Sherrill, Clarence O., assignor to The Kroger Grocery & Baking Company, Cincinnati, Ohio. Store. 1,924,963; Aug. 29.
Shippy, Leo C., assignor to Delco-Remy Corporation, Anderson, Ind. Cam testing device. 1,924,260; Aug. 29.
Shirk, William B., and P. H. Brace, Forest Hills, and N. C. Goin, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Apparatus and method of extruding pipe. 1,924,294; Aug. 29.
Shisoff, Harry, Brooklyn, N. Y. Amusement apparatus. 1,924,757; Aug. 29.
Shoe Form Co., Inc. (See De Witt, William J., assignor.)
Shoemaker, Fred G., Ferndale, assignor to General Motors Research Corporation, Detroit, Mich. Two-cycle engine. 1,924,697; Aug. 29.
Shoulter, Earle. (See Hoopes, J. E., and Shoulter.)
Shutt, Milo. (See Harry, R. J., and Shutt.)
Siebers, Xaver. (See Kohlmeyer, E. J., and Siebers.)
Siegel, Harry, New York, N. Y. Retaining a marcel wave in hair. 1,925,009; Aug. 29.
Siemens Brothers & Company Limited. (See Patterson, W. G., and Gachet, assignors.)
Siemens & Halske, Aktiengesellschaft. (See Esmarch, Wilhelm, assignor.)
Siemens & Halske, Aktiengesellschaft. (See Strecker, Felix, assignor.)
Siemens & Halske Aktiengesellschaft. (See Thilo, Hans G., assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Bischop, Eelco, assignor.)
Signode Steel Strapping Company. (See Edwards, Russell T., assignor.)
Silica Gel Corporation, The. (See Fonda, Bayard P., assignor.)
Sinclair Refining Company. (See Herthel, Eugene C., assignor.)
Sinden, Alfred D., Aurora, Ill., assignor to Stephens-Adamson Mfg. Co. Bin gate. 1,924,419; Aug. 29.
Sizer, Albert W., Hessle, England. Molding machine. 1,925,010; Aug. 29.
Skillen, Jesse P., Hamilton, Ontario, Canada, assignor to Westinghouse Electric & Manufacturing Company. Control system for dynamo-electric machines. 1,924,831; Aug. 29.

Skilling, John M., Penns Grove, N. J., and O. J. Teeple, jr., Cragmere, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Smokeless powder and manufacturing same. 1,924,464; Aug. 29.
Skolnik, Max, assignor to Skolnik Patents Corporation, Chicago, Ill. Pulp making process. 1,924,660; Aug. 29.
Skolnik, Max, assignor to Skolnik Patents Corporation, Chicago, Ill. Making felt paper pulp. 1,924,815; Aug. 29.
Skolnik Patents Corporation. (See Skolnik, Max, assignor.)
Slater, Elmer C., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Bucket elevator. 1,925,024; Aug. 29.
Slemmer, Harold B. (See Trout, H. N., and Ellis, assignors.)
Sloane-Blabon Corporation. (See Kelly, Bernard J., assignor.)
Smalley, Edwin L., Whitefish Bay, assignor to Hevi Duty Electric Company, Wilwaukee, Wis. Recuperative counter-flow furnace. 1,924,167; Aug. 29.
Smith, A. O., Corporation. (See Jasper, Thomas M., assignor.)
Smith, Albert J. (See Jester, M. B., and Smith.)
Smith, Alva T., assignor to National Enameling & Stamping Company, Milwaukee, Wis. Heat insulated cooking vessel. 1,924,690; Aug. 29.
Smith, David M., and G. Tremolada, assignors to Emsco Derrick & Equipment Company, Los Angeles, Calif. Water-cooled drum shaft assembly. 1,924,216; Aug. 29.
Smith, Elmer L., Longmeadow, assignor to Package Machinery Company, Springfield, Mass. Wrapping machine. 1,924,964; Aug. 29.
Smith, Frank E., Summit, assignor to Elevator Supplies Company, Incorporated, Hoboken, N. J. Washing machine cylinder. 1,924,521; Aug. 29.
Smith, Harold L., assignor to The Louis Allis Company, Milwaukee, Wis. Dynamo electric machine. 1,924,135; Aug. 29.
Smith, Hiram L. (See Secoy, Samuel E., assignor.)
Smith, James A., Panama City, Fla. Pumping mechanism. 1,924,466; Aug. 29.
Smith, James T. (See Taylor, H. W., and Smith.)
Smith, Jerome C. (See Pound, C. G., Hull, and Smith.)
Smith, Joseph E., Crescent City, Calif. Internal combustion engine. 1,924,467; Aug. 29.
Smith, Joseph K., Detroit, Mich., assignor to Beryllium Development Corporation, New York, N. Y. Alloy of aluminum and beryllium. 1,924,168; Aug. 29.
Smith, L C, & Corona Typewriters, Inc. (See Gabrielson, Carl, assignor.)
Smout, William W., Rhyl, Wales. Pen. 1,924,420; Aug. 29.
Smythe, Edwin H., Evanston, Ill., assignor to American Telephone and Telegraph Company. Method of and apparatus for receiving high frequency oscillations. 1,924,628; Aug. 29.
Society of Chemical Industry in Basle. (See Graenacher, Charles, assignor.)
Society of Chemical Industry in Basle. (See Hartmann, M., and Seiberth, assignors.)
Sonbert Machine Company. (See Engert, G. A., and Gibson, assignors.)
Sparks, Stanley W., Norwalk, Conn., assignor to C. H. Bickell, trustee, representing the Metals Research Syndicate, New York, N. Y. Method of and apparatus for extruding tubular metal shapes. 1,924,522; Aug. 29.
Spaulding, A. G., & Bros. (See Saunders, Addison T., assignor.)
Sperr, Frederick W., jr., Phoenix, Aris., assignor to The Koppers Company of Delaware. Treatment of fuel gas. 1,924,813; Aug. 29.
Sperry, Elmer A., jr., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Directional gyroscope for borehole testers and other uses. 1,924,816; Aug. 29.
Sperry Gyroscope Company. (See Hodgman, Frederick S., assignor.)
Sperry Gyroscope Company. (See Sperry, Elmer A., jr., assignor.)
Spring, Otto. (See Merley, S. R., and Spring.)
Spring, Otto, Okmulgee, Okla., assignor to Doherty Research Company, New York, N. Y. Making organic esters. 1,924,575; Aug. 29.
Spring, Walter M., Springvale, assignor to Sanford Mills, Sanford, Maine. Machine for uniting strips of floor covering, or the like, to present a seamless upper surface. 1,924,523; Aug. 29.
Sproul, Donald F., Chicago, Ill., assignor to Cardwell Westinghouse Company. Cushioning device. 1,924,814; Aug. 29.
Squibb, E. R. & Sons. (See Christiansen, W. G., and Chappell, assignors.)
Stacey, John E., Saugus, assignor to Otis Clapp & Son, Inc., Boston, Mass. Antiseptic preparation. 1,924,169; Aug. 29.
Stafford, Stephen B. (See McNicol, Alexander and A., Gill, and Stafford.)
Stainless Steel Corporation. (See Crolius, F. J., and Stuler, assignors.)
Stampfli, Otto, Zug, Switzerland. Multiple tool head for drilling, boring, and like machine tools. 1,924,383; Aug. 29.
Standard Conveyor Company. (See Eggleston, Smith, assignor.)
Standard Oil Company. (See MacLaren, F. H., and Rogers, assignors.)
Standard Oil Company. (See Miller, Clarke C., assignor.)
Standard Oil Company. (See Shaeffer, E. J., Watts, Brown, and Wilson, assignors.)
Standard Oil Company of California. (See Muth, John E., assignor.)
Standard Pressed Steel Co. (See Hallowell, Howard T., assignor.)
Standard Steel Spring Company. (See Figgie, Harry E., assignor.)
Stanley Works, The. (See Hobart, Louis C., assignor.)
Staples, Elden I. (See Staples, Dana R. and E. I.)
Staples, Dana R., Wilkinsburg, and E. I. Staples, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Control system for motor-generator locomotives. 1,924,332; Aug. 29.
Star, Richard, Brooklyn, N. Y. Remote control for Pitot tubes. 1,924,965; Aug. 29.
Starkweather, Gail C. (See Haas, L. L., and Starkweather.)
Starline, Inc. (See Ferris, Robert G., assignor.)
Stator Refrigeration, Inc. (See Comstock, Daniel F., assignor.)
Stator Refrigeration, Inc. (See Weaver, Eastman A., assignor.)
Stauber, Georg, Berlin, Germany. Turbine engine. 1,924,421; Aug. 29.
Steel Heddle Manufacturing Company. (See Kasper, Louis, assignor.)
Stehlik, Rudolph F., assignor to Associated Telephone and Telegraph Company, Chicago, Ill. Telephone system. 1,924,661; Aug. 29.
Stephens-Adamson Mfg. Co. (See Sinden, Alfred D., assignor.)
Stephenson, Norman M., Los Angeles, Calif. Fuse. 1,925,060; Aug. 29.
Stern, Albert G., assignor to The Barrett Company, New York, N. Y. Heating materials. 1,924,136; Aug. 29.
Stevens, Arthur L., Evanston, assignor, by mesne assignments, to Arthur L. Stevens Corporation, Chicago, Ill. Air and fuel control. 1,924,217; Aug. 29.
Stevens, Arthur L., Evanston, assignor, by mesne assignments, to Arthur L. Stevens Corporation, Chicago, Ill. Continuous heat treating furnace. 1,924,218; Aug. 29.
Stevens, Arthur L., Corporation. (See Stevens, Arthur L., assignor.)
Stevens Metal Products Company, The. (See Harm, G. O., and McBride, assignors.)
Stewart, Robert A. (See Graff, L. S., and Stewart.)
Stiefenhofer, Ferdinand. (See Goldhammer, L., and Stiefenhofer.)
Stiffson, Sidney, New York, N. Y. Buckle. 1,924,295; Aug. 29.
Stoddard, William B., Stamford, Conn., T. H. Geiger, New York, N. Y., and L. M. Burgess, Shrewsbury, Mass., assignors, by mesne assignments, to Tung Oil Products, Inc. Treating tung oil. 1,924,524; Aug. 29.
Stoffel, Otto, C. Boesch, and C. Sudhaus, Remscheid, Germany, assignors to The Linde Air Products Company. Heat treatment of crank shafts. 1,924,296; Aug. 29.
Stoffel, Simon H., assignor to N. V. Machinefabriek Reineveld, Haagweg, Delft, Netherlands. Washing machine. 1,925,061; Aug. 29.
Stokes, John S., et al. (See Novotny, E. H., and Kusmick, assignors.)
Stokes and Smith Company. (See Federwitz, Theodore A., assignor.)
Stokes, William E., Brooklyn, N. Y., and C. T. Whittier, Nutley, N. J., assignors to Royal Baking Powder Company, New York, N. Y. Manufacturing acid phosphate. 1,924,137; Aug. 29.
Stone, Thomas W., Fort Wayne, Pa., assignor to The Western Gas Construction Company. Method of and apparatus for measuring gases. 1,924,468; Aug. 29.
Stoody Company. (See Stoody, Winston F., assignor.)
Stoody, Winston F., assignor to Stoody Company, Whittier, Calif. Tough tungsten carbide alloy. 1,924,384; Aug. 29.
Strahm, André. (See Lipmann, C., Strahm, and Quinche.)
Strawn, Marion L., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Control mechanism. 1,924,138; Aug. 29.
Strecker, Felix, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Push-pull amplifier. 1,924,469; Aug. 29.
Struthers-Wells-Titusville Corporation. (See How, H. W., and Johnson, assignors.)
Stuler, Rudolph W. (See Crolius, F. J., and Stuler.)
Sturtevant, B. F., Company. (See Hanson, Milton M., assignor.)
Submarine Signal Company. (See Hart, Robert W., assignor.)
Submarine Signal Company. (See Wolf, Ezekiel, assignor.)
Sudhaus, Carl. (See Stoffel, O., Boesch, and Sudhaus.)
Suits, Chauncey G., Schenectady, N. Y., assignor to General Electric Company. Low frequency oscillator. 1,925,011; Aug. 29.
Sullivan, Harry H., Rochester, N. Y. Automatic blue printing and finishing machine. 1,924,758; Aug. 29.
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sullivan Machinery Company. (See Huffman, Mervin C., assignor.)

Sullivan Machinery Company. (See Johansen, Harry C., assignor.)
Sullivan Machinery Company. (See Wineman, Wade H., assignor.)
Summers, Otto M., assignor to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,924,662; Aug. 29.
Sun Oil Company. (See Pew, Arthur E., jr., assignor.)
Superheater Company, The. (See Armacost, Wilbur H., assignor.)
Superheater Company, The. (See Fischer, Theodor, assignor.)
Superheater Company, The. (See Huet, André, assignor.)
Superheater Company, The. (See Ostermann, Rudolf M., assignor.)
Superheater Company, The. (See True, Charles H., assignor.)
Super Mold Corporation. (See Woock, Herbert J., assignor.)
Svenson, Ernest J., Rockford, Ill. Valve construction. 1,924,422; Aug. 29.
Svenson, Ernest J., Rockford, Ill. Plunger pump. 1,924,423; Aug. 29.
Szegvari, Andrew, assignor to American Anode, Inc., Akron, Ohio. Preparing latex compositions. 1,924,170; Aug. 29.
Szegvari, Andrew, assignor to American Anode, Inc., Akron, Ohio. Treating rubber compositions. 1,924,576; Aug. 29.
Talbot, John E., South Bend, assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Footwear and making same. 1,924,663; Aug. 29.
Talarico Bros. (See Benson, George O., assignor.)
Talbot, Howard H., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Roll mounting. 1,924,333; Aug. 29.
Tate, Ernest H. (See Gibbons, C., and Tate.)
Tatter, John W., Detroit, assignor, by mesne assignments, of one-half to E. I. Ingersoll, Dearborn, Mich. Combined mop and mop wringer. 1,924,817; Aug. 29.
Tatter, John W., assignor to Lewis Differential Company, Chicago, Ill. Fluid pressure operated device. 1,924,888; Aug. 29.
Tauber, Arthur, Yonkers, N. Y. Electrical and mechanical connection. 1,924,334; Aug. 29.
Taylor, George, Penwortham, Preston, England. Safety razor. 1,924,335; Aug. 29.
Taylor, Halsey W., Company, The. (See Taylor, H. W., and Smith, assignors.)
Taylor, Halsey W., Warren, and J. T. Smith, Cleveland, assignors to The Halsey W. Taylor Company, Warren, Ohio. Cooling liquids. 1,924,525; Aug. 29.
Taylor, Henry P., Winston-Salem, N. C. Pressing and packing tobacco. 1,924,759; Aug. 29.
Taylor, Henry P., Winston-Salem, N. C. Pressing and packing tobacco with natural finish. 1,924,760; Aug. 29.
Taylor, William G., Schenectady, N. Y., assignor to General Electric Company. Well drilling system. 1,925,012; Aug. 29.
Tea, Clark A., assignor to Chrysler Corporation, Detroit, Mich. Snubber. 1,924,470; Aug. 29.
Teague, Walter D. (See Mihalyi, J., and Teague.)
Teague, Walter D., New York, assignor to Eastman Kodak Company, Rochester, N. Y. Camera casing. Des. 90,602; Aug. 29.
Teers, Claude F., assignor to Universal Oil Products Company, Chicago, Ill. Distilling petroleum hydrocarbons. 1,925,013; Aug. 29.
Technicolor, Inc. (See Ball, Joseph A., assignor.)
Technicolor, Inc. (See Troland, Leonard T., assignor.)
Technicolor Inc. (See Tuttle, Bertha S., assignor.)
Teknidyne Corporation. (See Jones, L. L., and Plasse, assignors.)
Teknidyne Corporation. (See Plasse, Thomas E., assignor.)
Teeple, Ella E., administratrix. (See Teeple, Oliver J., jr.)
Teeple, Oliver J., jr. (See Skilling, J. M., and Teeple.)
Teeple, Oliver J., jr., deceased; E. E. Teeple, administratrix, Cragmere, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing propellent powder. 1,924,465; Aug. 29.
Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H. (See Leib, August, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schröter, Fritz, assignor.)
Telewitch Corporation. (See Gibbs, Leon M., assignor.)
Tench, Frank. (See Mercer, R., and Tench.)
Terrell, Edgar A., assignor to The Terrell Machine Company, Charlotte, N. C. Bobbin stripper. 1,925,062; Aug. 29.
Terrell Machine Company, The. (See Terrell, Edgar A., assignor.)
Tesch, Walter C., Milwaukee, Wis. Device for swaging saw teeth. 1,924,171; Aug. 29.
Tetlow, Lewis J., Holyoke, Mass. Airplane. 1,924,471; Aug. 29.
Texas Company, The. (See Bailey, A. S., and Reynolds, assignors.)
Thilo, Hans G., Berlin-Steglitz, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Diaphragm for apparatus for picture telegraphy. 1,924,700; Aug. 29.
Thoma, Hans, Karlsruhe, Germany. Hydraulic pump and motor. 1,924,629; Aug. 29.
Thomas, Carl C., Pasadena, Calif. Photo-electric control apparatus. 1,924,139; Aug. 29.
Thomas, Carroll. (See Wennagel, G. F., and Thomas.)
Thomas, Edwin K. (See Fritz, E. M., E. K. and F. W. Thomas.)
Thomas, Frank W. (See Fritz, E. M., E. K. and F. W. Thomas.)
Thomas, John. (See Fairweather, D. A. W., and Thomas.)
Thomas, Philip R. (See Sandeman, E. K., Thomas, and Dunham.)
Thomas, William D., Lynnfield, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for pressing shoes. 1,924,172; Aug. 29.
Thompson & Jameson Corporation. (See Kuehmsted, Renfrew H., assignor.)
Thompson, Louis T. E., Dahlgren, Va., assignor of one-third to Henry C. Parker, Washington, D. C. Aeroplane bombing toy. 1,924,261; Aug. 29.
Thompson, Ralph E., Brookline, assignor to Gillette Safety Razor Company, Boston, Mass. Safety razor blade. 1,924,262; Aug. 29.
Thomson, George M., Caledonia, Ontario, Canada. Manufacturing sound absorbing material. 1,924,472; Aug. 29.
Thomson-Gibb Electric Welding Company. (See Cutter, George A., assignor.)
Thomson, James, Mile End, Glasgow, assignor to Mavor & Coulson Limited, Glasgow, Scotland. Conveyer of the belt type. 1,925,014; Aug. 29.
Thomson, Robert F., and R. J. Loveluck, Grangemouth, Scotland, assignors to Imperial Chemical Industries Limited. Production of anthraquinone derivatives. 1,924,664; Aug. 29.
Tillyer, Edgar D., Southbridge, Mass., assignor to Radio Corporation of America, New York, N. Y. Crystal oscillator and resonator. 1,924,297; Aug. 29.
Timpson, Lewis G. M., Plainfield, N. J., assignor to Pyrene-Minimax Corporation. Time controlled mechanism. 1,924,889; Aug. 29.
Tingley, Bruce H., assignor to Ohmer Fare Register Company, Dayton, Ohio. Capacity increasing means for counting wheels. 1,924,526; Aug. 29.
Tinius Olsen Testing Machine Company. (See Lewis, Robert B., assignor.)
Titan Abrasives Company. (See Doermann, Albert J., assignor.)
Tokheim Oil Tank and Pump Company. (See Brake, George U., assignor.)
Tokheim Oil Tank and Pump Company. (See Pepper, Byron J., assignor.)
Toledo Machine & Tool Company, The. (See Schlos, Arthur H., assignor.)
Toogood, Henry H., Los Angeles, Calif. Wedge bar. 1,924,630; Aug. 29.
Toogood, Henry H., Los Angeles, Calif. Form tie. 1,924,631; Aug. 29.
Toulmin, Harry A., jr., assignor to The Univis Corporation, Dayton, Ohio. Bifocal lenses. 1,924,836; Aug. 29.
Trainer, James E., Fairlawn, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J. Pipe section. 1,924,966; Aug. 29.
Tregoning, William C., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 1,924,818; Aug. 29.
Tremolada, Guglielmo. (See Smith, D. M., and Tremolada.)
Tressler, Donald K., Pittsburgh, Pa., assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Wax-like esters and preparing the same. 1,925,063; Aug. 29.
Troland, Leonard T., Cambridge, Mass., assignor, by mesne assignments, to Technicolor, Inc., New York, N. Y. Preparing gelatin blanks. 1,924,890; Aug. 29.
Trombetta, Hermand P., New Hartford, N. Y. Train control system. 1,924,219; Aug. 29.
Tronnier, Albrecht W., Kreuznach, Germany. Unsymmetrical objective lens system. 1,924,527; Aug. 29.
Troupe, Albert B., Princeton, Ill. Dental massaging appliance. 1,924,337; Aug. 29.
Trout, Harold N., and F. S. Ellis, Norristown, assignor of one-third to Harold B. Slemmer, Lederach, Pa. Belt buckle. 1,924,665; Aug. 29.
Truax, William T., assignor to United States Register Co., Battle Creek, Mich. Straight flow volume control register. 1,924,263; Aug. 29.
True, Charles H., Chicago, Ill., assignor to The Superheater Company, New York, N. Y. Making pipe structures. 1,924,891; Aug. 29.
Truscon Steel Company. (See Schaffert, Adolf H., assignor.)
Tschunkur, Eduard. (See Bock, W., and Tschunkur.)
Tsukamoto, Koichi, Paia, Territory of Hawaii. Fuse device. 1,924,632; Aug. 29.
Tung Oil Products, Inc. (See Stoddard, W. B., Geiger, and Burgess, assignors.)
Turner, Robert B., Fowler, Kans. Inclinometer. 1,924,761; Aug. 29.
Turnquist, Edward, assignor to Guide Lamp Corporation, Anderson, Ind. Making lamp door rims. 1,924,220; Aug. 29.
Tuttle, Bertha S., Boston, Mass., assignor, by mesne assignments, to Technicolor, Inc., New York, N. Y. Cleaning gelatinous surfaces and the like. 1,924,802; Aug. 29.
Underwood Elliott Fisher Company. (See Von Reppert, Richard, assignor.)

Union Oil Company of California. (See Gard, Clare D., assignor.)
Union Switch & Signal Company, The. (See Gilson, Robert M., assignor.)
Union Switch & Signal Company, The. (See McWhirter, William C., assignor.)
Union Switch & Signal Company. (See Nicholson, Frank H., assignor.)
United Autographic Register Co. (See Budlong, Robert D., assignor.)
United Engineering & Foundry Company. (See Talbot, Haward H., assignor.)
United Gas Gauge Company, The. (See Gaiser, Paul, assignor.)
United Mattress Machinery Company. (See Mathewson, Wilfred B., assignor.)
United Milk Crate Corporation, The. (See Wildberg, Henry, assignor.)
United Shoe Machinery Corporation. (See Eastman, Fred C., assignor.)
United Shoe Machinery Corporation. (See Jones, Paul, assignor.)
United Shoe Machinery Corporation. (See Knowlton, Norwood H., assignor.)
United Shoe Machinery Corporation. (See MacDonald, David B., and R. B., assignors.)
United Shoe Machinery Corporation. (See Thomas, William D., assignor.)
United States Air Compressor Company, The. (See Bacher, Rollin L., assignor.)
United States Gauge Company. (See Corcoran, Lewis L., assignor.)
United States of America, The. (See Meissner, Alexander, assignor.)
United States Radiator Corporation. (See McIntire, James F., assignor.)
United States Register Co. (See Truax, William T., assignor.)
U. S. Slicing Machine Company. (See Van Berkel, Wilhelmus A., assignor.)
United States Steel Corporation. (See Bain, E. C., and Davenport, assignors.)
Universal Home Specialties, Inc. (See Jonas, Edward, assignor.)
Universal Oil Products Company. (See Bockman, George A., assignor.)
Universal Oil Products Company. (See Brandt, Ralph H., assignor.)
Universal Oil Products Company. (See Egloff, Gustav, assignor.)
Universal Oil Products Company. (See Held, Jacob B., assignor.)
Universal Oil Products Company. (See Howard, William R., assignor.)
Universal Oil Products Company. (See Lowry, C. D., jr., and Dryer, assignors.)
Universal Oil Products Company. (See Tears, Claude F., assignor.)
Universal Optical Corporation. (See Marciano, Frank G., assignor.)
Universal Winding Company. (See Parks, Edward F., assignor.)
Univis Corporation, The. (See Toulmin, Harry A., jr., assignor.)
Unruh, Cornelius C., Freeman, S. Dak., assignor, by mesne assignments, to The Meadows Manufacturing Company. Dolly for washing machines. Re18,928; Aug. 29.
Utah Royalty Corporation. (See Rider, Rowland W., assignor.)
Vail, Walter E. (See Larson, A. T., and Vail.)
Vail, Walter E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing aliphatic carboxylic acids from olefinic hydrocarbons, carbon monoxide and steam. 1,924,764; Aug. 29.
VanAckeren, Joseph, Pittsburgh, Pa., assignor to The Koppers Company of Delaware. Apparatus for producing gas in coke ovens. 1,924,819; Aug. 29.
VanAckeren, Joseph, O'Hara Township, Allegheny County, Pa., assignor to The Koppers Company of Delaware. Gas producer. 1,924,820; Aug. 29.
Van Berkel, Wilhelmus A., Clarens, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 1,924,666; Aug. 29.
Van Berkel, Johannes C., Copenhagen, Denmark, assignor to Naamloose Vennootschap Maatschappij tot Vervaardiging van Snijmachines volgens Van Berkel's Patent en van andere Werktuigen, Rotterdam, Netherland. Slicing machine. 1,924,667; Aug. 29.
Van Buskirk, Robert N., Detroit, Mich., assignor to Bendix Brake Company, South Bend, Ind. Brake. 1,924,577; Aug. 29.
Vanderveer, Jewell W., Syracuse, N. Y., assignor to Erie Malleable Iron Company, Erie, Pa. Wheel. 1,924,355; Aug. 29.
Van Dorn, Herbert E., Chicago, Ill., assignor to W. E. Van Dorn, Pasadena, Calif. Control system for car couplers and electric circuits. 1,924,821; Aug. 29.
Van Dorn, William E. (See Van Dorn, Herbert, E., jr., assignors.)
Van Hoofstadt, Edward, Oceanside, assignor to Lion Match Co., Inc., Long Island City, N. Y. Match making machines. 1,924,264; Aug. 29.
Van Meter, Ray S., Malin, Oreg. Fishing tool for wells. 1,924,424; Aug. 29.
Vereinigte Stahlwerke Aktiengesellschaft. (See Köster, Werner, assignor.)
Vernen, Kurt. (See Howell, Theodore L., assignor.)
Vick, Alvin C., Toledo, assignor, by mesne assignments, to Cornell Securities Corporation, Cleveland, Ohio. Metallic receptacle and closure therefor. 1,924,578; Aug. 29.
Voegele, Joseph, Aktiengesellschaft. (See Köhler, Willy, assignor.)
Voith, J. M. (See Mueller, Hans, assignor.)
Von Eisenbarth, August, assignor to Ameritex-Sudanette, Div. of Cohn-Hall-Marx Company, New York, N. Y. Textile fabric. Des. 90,603; Aug. 29.
Von Reppert, Richard, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,924,140; Aug. 29.
Vyn, Arend, Grand Haven, Mich. Casting machine. 1,924,221; Aug. 29.
W. & B. Company. (See Wardwell, H. F., and Bladin, assignors.)
Wackman, Louis B., St. Louis, Mo. Making containers and chimes therefor. 1,924,893; Aug. 29.
Wadsworth Electric Manufacturing Company, The. (See Schafer, George W., assignor.)
Wadsworth, George B., Covington, Ky. Banking switch construction. 1,924,668; Aug. 29.
Wagner, William E., Alton, assignor to Western Cartridge Company, East Alton, Ill. Propellant powder and making the same. 1,924,967; Aug. 29.
Wahl Clipper Corporation. (See Brown, David B., assignor.)
Wahlers, August, San Diego, Calif. Lock nut. 1,925,064; Aug. 29.
Waldelich, John F., Jackson, Mich. Detachable heel lift. 1,924,141; Aug. 29.
Walden, Fred W. (See McGuire, Irving J., assignor.)
Walker, Hervey S. (See Bilnn, Glenn E., assignor.)
Wallenbeck, William G., Chicago, Ill. Cleaning mechanism. 1,924,386; Aug. 29.
Walmsley, Edgar, and H. A. Francis, Blackpool, England. Antidazzle device. 1,924,338; Aug. 29.
Walsh, William C., Omaha, Nebr. Golf tee. 1,924,473; Aug. 29.
Waltenberg, Romaine G., Roselle, assignor to The H. A. Wilson Company, Newark, N. J. Welding metals. 1,924,528; Aug. 29.
Walter, Harrison B., assignor to Container Corporation of America, Chicago, Ill. Container. 1,924,222; Aug. 29.
Ward, Robert E. (See Powers, John H., assignor.)
Wardwell, Henry F., and W. C. Bladin, assignors to W. & B. Company, Chicago, Ill. Roller side bearing. 1,924,669; Aug. 29.
Warner, Edgar. (See Scott, H. B., and Warner.)
Washburn Company, The. (See Andrews, Charles, assignor.)
Washburn, Frederick C., New Bedford, Mass. Warp beam. 1,924,387; Aug. 29.
Waterhouse, John W., assignor to G. E. Watts, Portland, Oreg. Rubber cap-wrench. 1,924,579; Aug. 29.
Watkins, George B., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Sealing laminated glass. 1,924,580; Aug. 29.
Watt, Sern P. (See Bardon, D. M., Greaves, and Watt.)
Watts, George E. (See Waterhouse, John W., assignor.)
Watts, George W. (See Shaeffer, E. J., Watts, Brown, and Wilson.)
Weatherly, James F., assignor to H. G. Higgins, Miami, Fla. Table. 1,924,223; Aug. 29.
Weaver, Eastman A., Winchester, Mass., assignor, by mesne assignments, to Stator Refrigeration, Inc. Fluid apparatus. 1,924,894; Aug. 29.
Webb, Hartwell W., Pleasant Plains, Staten Island, N. Y. Producing flexible shafts. 1,924,701; Aug. 29.
Webb, William E., Minneola, Fla. Steering wheel. Des. 90,604; Aug. 29.
Weber, Ludwig J., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. 1,924,729; Aug. 29.
Weber, Philip, Monmouth Beach, N. J., assignor to Pioneer Instrument Company, Incorporated, Brooklyn, N. Y. Inclinometer. 1,924,339; Aug. 29.
Wece, Philip, assignor to Rolfs, Inc., West Bend, Wis. Bill fold. 1,924,702; Aug. 29.
Weichlein, Werner, Prenslau, Germany. Manufacture of vaccines. 1,924,968; Aug. 29.
Weiss, Sidney, St. Louis, Mo. Game board. 1,925,018; Aug. 29.
Weith, Archie J. (See Redman, L. V., Weith, and Brock.)
Wellman, Charles P., West Medford, Mass. Receptacle. 1,924,529; Aug. 29.
Wells, Walter T., Glendale, Calif. Formation packer. 1,925,015; Aug. 29.
Wells, Walter T., Glendale, Calif. Packer for oil wells. 1,925,016; Aug. 29.
Wells, Walter T., Glendale, Calif. Rat-hole packer. 1,925,017; Aug. 29.
Welwood, John C., Corp. (See Owits, Nathan, assignor.)
Wennagel, George F., and C. Thomas, Baltimore, Md. Electric car heater. 1,924,298; Aug. 29.
West, John W., New York, N. Y., assignor, by mesne assignments, to Good Humor Corporation of America. Stick gripping and centering apparatus for frozen confections. 1,924,224; Aug. 29.
Western Cartridge Company. (See Wagner, William E., assignor.)

Western Combustion Engineers, Inc. (See Hobson, Frank E., assignor.)
Western Electric Company. (See Adams, Ethel B., assignor.)
Western Electric Company. (See Clemmons, Ralph W., assignor.)
Western Electric Company. (See Hruby, Louis J., assignor.)
Western Electric Company. (See Sager, John W., assignor.)
Western Electric Company. (See Strawn, Marion L., assignor.)
Western Gas Construction Company. (See Stone, Thomas W., assignor.)
Westinghouse Electric Elevator Company. (See Dunlop, James, assignor.)
Westinghouse Electric Elevator Company. (See McCormick, Harold V., assignor.)
Westinghouse Electric & Manufacturing Company. (See Atherton, Alfred L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Boddie, Clarence A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Bielsky, J. V., and Draper, assignors.)
Westinghouse Electric and Manufacturing Company. (See Cook, W. G., and James, assignors.)
Westinghouse Electric & Manufacturing Company. (See Crichton, Leslie N., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dovjikov, Alexander D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Frey, Albert A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Harmon, Ralph N., assignor.)
Westinghouse Electric & Manufacturing Company. (See High, Jurjen S., assignor.)
Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Knight, Ernest H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Marsteller, Lester O., assignor.)
Westinghouse Electric & Manufacturing Company. (See Matthews, William V., assignor.)
Westinghouse Electric and Manufacturing Company. (See Mattingly, H. W., and Eames, assignors.)
Westinghouse Electric & Manufacturing Company. (See Pentow, Werner, assignor.)
Westinghouse Electric & Manufacturing Company. (See Ridcout, Theodore R., assignor.)
Westinghouse Electric and Manufacturing Company. (See Shirk, W. B., Brace, and Goin, assignors.)
Westinghouse Electric & Manufacturing Company. (See Shillen, Jesse P., assignor.)
Westinghouse Electric and Manufacturing Company. (See Staples, Dana R. and E. I., assignors.)
Westinghouse Electric & Manufacturing Company. (See Wilson, Earl D., assignor.)
Wetsel, Kurt. (See Rowland, D. H., and Wetsel.)
Wharton, Charles H., Seattle, Wash. Denture. 1,924,265; Aug. 29.
Wheeler, Frank G., and H. H. Heller, Appleton, assignors to Bleach Process Company, Neenah, Wis. Cell feed. 1,924,822; Aug. 29.
Wheeler, Marion B., Raleigh, N. C. Device for testing the viscosity of liquids. 1,924,969; Aug. 29.
Whitney, Lyman F., assignor to Comstock & Wescott, Inc., Boston, Mass. Heat exchange system control. 1,924,895; Aug. 29.
Whitehouse, John N., New York, N. Y. Forming apparatus. 1,924,340; Aug. 29.
Whittier, Charles T. (See Stokes, W. E., and Whittier.)
Whittington, Aldine W. (See Whittington, Raymond C. and A. W.)
Whittington, Raymond C. and A. W., Harrisburg, Pa. Starter for engines. 1,924,633; Aug. 29.
Wickersham, Harry P., Huntington Park, and E. Burns, Los Angeles, assignors to Baash-Ross Tool Company, Incorporated, Los Angeles, Calif. Blow-out preventer. 1,924,425; Aug. 29.
Wiegand, Albert P. (See Wiegand, Edwin L. and A. P.)
Wiegand, Edwin L. and A. P., Pittsburgh, Pa. Apparatus for insulating electrical resistor elements. 1,924,474; Aug. 29.
Wienecke, Bruno, Berlin, Germany. Interrupting connections in vacuum valves. 1,924,266; Aug. 29.
Widberg, Henry, assignor to The United Milk Crate Corporation, Cincinnati, Ohio. Bottle crate. 1,924,475; Aug. 29.
Widbaber, Ernest, Brooklyn, N. Y. Cutting gears. 1,924,476; Aug. 29.
Wilkins, Richard A., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Alloy. 1,924,581; Aug. 29.
Willauer, William B., Philadelphia, Pa., assignor to Marathon Paper Mills Company, Rothschilds, Wis. Process and apparatus for sulfurizing paper board. 1,924,142; Aug. 29.
Wilcox & Gibbs Sewing Machine Company. (See Dowd, Charles W., assignor.)
Will, Frederick D., assignor to Hump Hairpin Manufacturing Company, Chicago, Ill. Compartmented carton. 1,924,823; Aug. 29.
Willheim, William, New York, N. Y. Textile fabric or similar article. Des. 90,605; Aug. 29.
Willheim, William, New York, N. Y. Textile fabric or similar article. Des. 90,606; Aug. 29.
Williams, Charles H. (See Green, T. L., and Williams.)
Williams, Seaborn Z., Cleveland, Ohio. Paper umbrella. 1,924,426; Aug. 29.
Williams, Seaborn Z., Cleveland, Ohio. Paper umbrella. 1,924,427; Aug. 29.
Williams, Walter W., Bloomington, and I. E. McCabe, Chicago, Ill. Oil burner construction. 1,924,670; Aug. 29.
Williamson, Arthur P., Shaker Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Stem for pneumatic tires or the like. 1,924,173; Aug. 29.
Williamson, Clarence H., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Container. 1,924,143; Aug. 29.
Willman, Philip E., Chicago, Ill. Coffeepot or similar article. Des. 90,607; Aug. 29.
Willman, Philip E., Chicago, Ill. Combined casserole and base therefor. Des. 90,608; Aug. 29.
Willman, Philip E., Chicago, Ill. Saucepan or similar article. Des. 90,609; Aug. 29.
Willman, Philip E., Chicago, Ill. Saucepan or similar article. Des. 90,610; Aug. 29.
Wilson, Charles G., assignor to The Aro Equipment Corporation, Bryan, Ohio. Overhead swivel arm for lubricant supply hose. 1,924,428; Aug. 29.
Wilson, Earl D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Photo-electric tube. 1,924,299; Aug. 29.
Wilson, Fred D., Harvey, assignor to Austin Manufacturing Co., Chicago, Ill. Power take-off mechanism. 1,924,703; Aug. 29.
Wilson, H. A., Company, The. (See Waltenberg, Romaine G., assignor.)
Wilson, Robert E. (See Shaeffer, E. J., Watts, Brown, and Wilson.)
Wilson, William, New York, N. Y. Surface treating device. 1,926,019; Aug. 29.
Wineman, Wade H., Michigan City, Ind., assignor to Sullivan Machinery Company. Surfacing machine. 1,924,582; Aug. 29.
Wintroath, John A., Los Angeles, assignor to Wintroath Pumps, Ltd., Alhambra, Calif. Sand protected by-pass seal. 1,924,203; Aug. 29.
Wintroath Pump, Ltd. (See Wintroath, John A., assignor.)
Winzeler, Henry S., assignor to The Ohio Art Company, Bryan, Ohio. Embossed covered picture and making same. 1,924,429; Aug. 29.
Wired Radio, Inc. (See Hough, Clinton W., assignor.)
Wirth, Walter J., Indianapolis, Ind. Combined cigarette, match, and ash holder. 1,924,730; Aug. 29.
Witham, Harry J., Philadelphia, Pa. Collar point pressing machine. 1,924,671; Aug. 29.
Wolf, Ezekiel, Dorchester, assignor to Submarine Signal Company, Boston, Mass. Measuring distance. 1,924,174; Aug. 29.
Woock, Herbert J., assignor to Super Mold Corporation, Lodi, Calif. Pressure bag for tire molds. 1,924,530; Aug. 29.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Quick change splicing device. 1,924,583; Aug. 29.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Press unit drive. 1,924,584; Aug. 29.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Paper feeding device for printing presses. 1,924,585; Aug. 29.
Wood Newspaper Machinery Corporation. (See Roesen, Oscar C., assignor.)
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Woodcock, Joseph C., Cliffside, and P. J. Paffen, Jersey City, N. J., assignors to The Barrett Company, New York, N. Y. Indicator for distributing apparatus. 1,924,144; Aug. 29.
Woodhouse, John C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of carboxylic acids. 1,924,762; Aug. 29.
Woods, James H., San Fernando, Calif. Portable picnic cabinet. 1,924,430; Aug. 29.
Writer, Victor P., New York, N. Y. Making hats. 1,924,531; Aug. 29.
Wulf, Fred, Marshalltown, Iowa. Power applicator. 1,924,477; Aug. 29.
Yamane, Kanichi, Shimizuzaka, Kifune-Cho, Shimonoseki-Shi, Yamaguchi-Ken, Japan. Refrigerator of brine-circulation system. 1,924,225; Aug. 29.
Yeager, Anton J., assignor to Prentiss Wabers Products Co., Wisconsin Rapids, Wis. Vapor stove. 1,924,824; Aug. 29.
Yerk, Henry H., and A. A. Kottman, Davenport, assignors, by mesne assignments, to The Micro Corporation, Bettendorf, Iowa. Grinding machine. 1,924,896; Aug. 29.
Young, Bessie I. C., Pasadena, Calif. Bed pan cushion. 1,924,204; Aug. 29.
Young, Lewis M., Norwich, Conn. Sand spreader. 1,924,825; Aug. 29.
Young, Lewis M., Norwich, Conn. Sand spreader. 1,925,020; Aug. 29.

Youngstown Steel Door Company, The. (See Williams, Clarence H., assignor.)
Zach, Julius J., Moores, Pa., assignor to General Steel Castings Corporation, Granite City, Ill. Locomotive structure. 1,924,175; Aug. 29.
Zachara, Ladislaus, Bremerton, Wash. Combination circular saw miter machine. 1,924,672; Aug. 29.
Zakowski, Max. (See Lehmann, K. A., and Zakowski.)
Zaucker, Ewald. (See Orthner, L., Zaucker, and Bögemann.)
Zell, David H., Brooklyn, N. Y. Container. 1,924,897; Aug. 29.
Zellstoffabrik Waldhof Mannheim Waldhof. (See Claus, W., and Schmidt, assignors.)
Zerk, Oscar U., Cleveland, Ohio. Shaft and spindle bearing. 1,924,586; Aug. 29.
Zerk, Oscar U., Cleveland, Ohio. Spring shackle mechanism. 1,924,587; Aug. 29.
Zerk, Oscar U., assignor to Alemite Corporation, Chicago, Ill. Pump for centralized lubricating systems. 1,924,673; Aug. 29.
Zerk, Oscar U., assignor to Alemite Corporation, Chicago, Ill. Lubricating apparatus. 1,924,674; Aug. 29.
Zimber, Raymond M., Bloomfield, and L. A. Hawthorne, Newark, assignors to Deforest Radio Company, Jersey City, N. J. Machine for sealing. 1,924,582; Aug. 29.
Zingheim, Francis L., San Jose, Calif. Saw setting machine. 1,924,431; Aug. 29.
Zisch, Walter, Frankfort-on-the-Main, Germany. Manufacturing oxygen evolving preparation. 1,924,145; Aug. 29.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 29TH DAY OF AUGUST, 1933

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrasive and producing same, Preformed. E. S. Merriam. 1,924,648; Aug. 29.
Abrasive applying machine. O. Doutt. 1,924,487; Aug. 29.
Abrasive body and making the same. E. E. Novotny and J. N. Kusmick. 1,924,748; Aug. 29.
Abrasive disk. A. J. Doermann. 1,924,773; Aug. 29.
Absorption system. D. F. Comstock. 1,924,914; Aug. 29.
Acetylene polymers and making same. W. S. Calcott and F. B. Downing. 1,924,979; Aug. 29.
Acid, Concentrating nitric. H. Frischer. 1,924,312; Aug. 29.
Acid phosphate, Manufacturing. Y. E. Stokes and C. T. Whittier. 1,924,137; Aug. 29.
Acids from olefinic hydrocarbons, carbon monoxide, and steam, Preparation of carboxylic. A. T. Larson and W. E. Vail. 1,924,765; Aug. 29.
Acids from olefinic hydrocarbons, Preparing aliphatic carboxylic. W. E. Vail. 1,924,764; Aug. 29.
Acids of polyhydroxyanthraquinones, Production of nitrosulphonic. D. G. Rogers. 1,924,166; Aug. 29.
Acids, Preparation of carboxylic. J. C. Woodhouse. 1,924,762; Aug. 29.
Acids, Preparation of carboxylic. G. B. Carpenter. 1,924,763; Aug. 29.
Acids, Production of carboxylic. G. B. Carpenter. 1,924,766–9; Aug. 29.
Adjustable wire bale-tie. G. E. Gaus. 1,924,155; Aug. 29.
Adsorption system. B. P. Fonda. 1,924,849; Aug. 29.
Air and fuel control. A. L. Stevens. 1,924,217; Aug. 29.
Air conditioning apparatus. L. L. Landauer. 1,924,447; Aug. 29.
Aircraft. F. C. Kusse. 1,924,192; Aug. 29.
Aircraft. O. Richter. 1,924,651; Aug. 29.
Aircraft propellers, Attachment for. H. Schanke. 1,924,461; Aug. 29.
Airplane. L. L. Jones. 1,924,122; Aug. 29.
Airplane, Tailless. W. Langruth. 1,924,996; Aug. 29.
Airplane. L. J. Tetlow. 1,924,471; Aug. 29.
Air vent valve. F. Blank. 1,924,394; Aug. 29.
Alkylated acidyl polyalkylene polyamines. W. Neelmeier, T. Nocken, and H. Friedrich. 1,924,698; Aug. 29.
Alloy. J. Aderer. 1,924,097; Aug. 29.
Alloy. R. A. Wilkins. 1,924,581; Aug. 29.
Alloy materials by electroplating, Forming. H. J. Kersten. 1,924,439; Aug. 29.
Alloy of aluminum and beryllium. J. K. Smith. 1,924,168; Aug. 29.
Aluminum alloy. H. J. Rowe. 1,924,726–7; Aug. 29.
Aluminum alloy. L. J. Weber. 1,924,729; Aug. 29.
Aluminum alloys. H. J. Rowe. 1,924,725; Aug. 29.
Aluminum and other light metals, Apparatus for smelting. J. Schüffler. 1,924,201; Aug. 29.
Amplifier. V. M. Cousins. 1,924,836; Aug. 29.
Amplifier, Push-pull. F. Strecker. 1,924,469; Aug. 29.
Amplifier, Thermionic. C. O. Browne. 1,924,268; Aug. 29.
Amusement apparatus. H. Shisoff. 1,924,757; Aug. 29.
Anaesthetic composition. S. D. Goldberg. 1,924,685; Aug. 29.
Anthraquinone acridone and preparing it, Halogenated. M. A. Kuns, K. Koeberle, and E. Berthold. 1,924,446; Aug. 29.
Anthraquinone derivatives, Production of. R. F. Thomson and R. J. Loveluck. 1,924,664; Aug. 29.
Antidazzle device. E. Walmsley and H. A. Francis. 1,924,338; Aug. 29.
Antifriction bearing. F. Leister. 1,924,937; Aug. 29.
Antiseptic preparation. J. E. Stacey. 1,924,169; Aug. 29.
Anti-shimmy device. G. E. A. Hallett. 1,924,718; Aug. 29.
Antiskid chain. A. W. Mendel. 1,924,286; Aug. 29.
Applicator. A. E. Drake. 1,924,916; Aug. 29.
Article holder. R. M. Kincaid. 1,924,502; Aug. 29.
Articles from rubber dispersions, Making. E. B. Newton. 1,924,214; Aug. 29.
Automatic clutch. A. J. Nowak. 1,924,723; Aug. 29.
Automatic control valve. F. E. Beebe. 1,924,177; Aug. 29.
Automatic machine tool, Combined. L. H. Blood and C. W. Goodrich. 1,924,594; Aug. 29.
Automobile lifting mechanism. A. Gerstenberger. 1,924,276; Aug. 29.
Automobile signal. A. M. Flanders and J. T. Dessureau. 1,924,778; Aug. 29.
Aviation instruction apparatus. W. H. Ball and J. R. Ball. 1,924,890; Aug. 29.
Axminster loom. W. Bixby. 1,924,904; Aug. 29.
Azo dyestuffs, Water-insoluble. E. Hoffa and P. Jörg. 1,924,434; Aug. 29.
Baffle for furnaces. J. W. Franz. 1,924,274; Aug. 29.

Bag: *See*—
Burlap bag. Golf bag.
Dust bag.
Bag for tire molds, Pressure. H. J. Woock. 1,924,530; Aug. 29.
Balloon. M. Friedberg. 1,924,236; Aug. 29.
Bar: *See*—
Wedge bar.
Barrel for hydrometers, Glass. L. Edelmann. 1,924,917; Aug. 29.
Basket ball backstop. O. C. Schuls. 1,924,811; Aug. 29.
Basket, Bicycle. C. Andrews. 1,924,343; Aug. 29.
Bath fixture, Combination. A. C. Brown and E. E. Brown. 1,924,771; Aug. 29.
Battery: *See*—
Electric battery.
Battery apparatus, Storage. L. M. Patterson, jr. 1,924,959; Aug. 29.
Battery terminal clamp. G. F. Berkshier and C. H. Schmidgall. 1,924,482; Aug. 29.
Bearing: *See*—
Antifriction bearing. Shaft and spindle bearing.
Roller side bearing.
Bearing for eccentrics. G. J. MacFadden. 1,924,326; Aug. 29.
Bearing mounting for crank shaft and the like. N. M. Lower, A. R. Chalker and W. G. Bailey. 1,924,562; Aug. 29.
Bedstead. R. C. Botwright. 1,924,732; Aug. 29.
Belt. A. L. Freedlander. 1,924,354–5; Aug. 29.
Belt, Lumbago. R. Draves. 1,924,640; Aug. 29.
Bench, Packing house. H. T. Halloweil. 1,924,989; Aug. 29.
Beryllium and beryllium alloys, Manufacture of. L. Burgess. 1,924,151; Aug. 29.
Bill fold. P. Wege. 1,924,702; Aug. 29.
Bin kate. A. D. Sinden. 1,924,419; Aug. 29.
Biscuit cutting and panning machine. T. L. Green and C. H. Williams. 1,924,549; Aug. 29.
Blanket for printing presses and making the same. T. L. McElroy. 1,924,528; Aug. 29.
Blast furnace. A. J. Ebner. 1,924,842; Aug. 29.
Blow-out preventer. H. P. Wickersham and E. Burns. 1,924,425; Aug. 29.
Blue printing and finishing machine, Automatic. H. H. Sullivan. 1,924,758; Aug. 29.
Board: *See*—
Game board.
Boat keel. C. T. Ludington. 1,924,871; Aug. 29.
Bobbin. F. Mossberg. 1,924,745; Aug. 29.
Bobbin stripper. E. A. Terrell. 1,925,062; Aug. 29.
Boiler: *See*—
Locomotive boiler.
Boiler. J. A. Freiday. 1,924,850; Aug. 29.
Boiler. D. F. Kilgour. 1,924,209; Aug. 29.
Boiler. R. M. Ostermann. 1,924,877; Aug. 29.
Boiler cleaner. D. E. Hibner, jr., and T. M. Bruback. 1,924,550; Aug. 29.
Boiler drum. I. Harter. 1,924,279; Aug. 29.
Boilers, Blow-off deheater for. E. P. Brock. 1,924,738; Aug. 29.
Book support. C. L. Seaquest. Des. 90,601; Aug. 29.
Bowl-holder for melted solder. R. McClarkey. 1,924,451; Aug. 29.
Box: *See*—
Journal box. Sand box.
Box machine. T. A. Federwitz. 1,924,681; Aug. 29.
Bracket: *See*—
Shade bracket.
Bracket. R. P. Bennett. 1,924,820; Aug. 29.
Bracket for curtain rods. D. H. Rosenberg. 1,924,291; Aug. 29.
Brake: *See*—
Elevator safety brake. Friction brake.
Brake. W. J. Andres. 1,924,589; Aug. 29.
Brake. V. Bendix and A. Y. Dodge. 1,924,592; Aug. 29.
Brake. E. G. McDonald. 1,924,613; Aug. 29.
Brake. L. E. La Brie. 1,924,610; Aug. 29.
Brake. R. N. Van Buskirk. 1,924,577; Aug. 29.
Brake and motor tester. J. H. Sanders. 1,924,658; Aug. 29.
Brake apparatus. R. J. Norton. 1,924,622; Aug. 29.
Brake construction. E. R. Evans. 1,924,112; Aug. 29.
Brake control mechanism. A. H. chlos. 1,924,808; Aug. 29.
Brake mechanism for conveyers. M. J. Anderson. 1,924,899; Aug. 29.
Brake operating mechanism L. E. La Brie. 1,924,611; Aug. 29.

Brake or clutch. M. G. T. Priest. 1,925,004; Aug. 29.
Brake shoe. R. A. Babel. 1,924,590; Aug. 29.
Brake shoe. E. R. Evans. 1,924,113; Aug. 29.
Brake shoes, Making. E. R. Evans. 1,924,114; Aug. 29.
Brake testing apparatus. R. N. Brown. 1,924,833; Aug. 29.
Braking system. H. D. James. 1,924,321; Aug. 29.
Briquette and binder for the same. I. Rosenwald. 1,924,457; Aug. 29.
Brooder. W. R. Hartung. 1,924,207; Aug. 29.
Brush. J. D. Bates. 1,924,147; Aug. 29.
Brush and holder, Washer. E. G. Griffith. 1,924,482; Aug. 29.
Bucket elevator. E. C. Slater. 1,925,024; Aug. 29.
Buckle. S. Stiffson. 1,924,295; Aug. 29.
Buckle, Belt. H. N. Trout and F. S. Ellis. 1,924,665; Aug. 29.
Building. S. D. Kaplan. Des. 90,582; Aug. 29.
Building structure. H. S. Ring. 1,924,414; Aug. 29.
Bumper end construction. H. E. Figgie. 1,924,600; Aug. 29.
Burlap bag. G. I. Goldwyn. 1,924,492; Aug. 29.
Burner: *See*—
Fuel burner.
Burner construction. R. A. Lewis. 1,924,938; Aug. 29.
Burner construction, Oil. W. W. Williams and I. E. McCabe. 1,924,670; Aug. 29.
Burner head, Oil. A. J. Frame. 1,924,092; Aug. 29.
Burner system, Fuel. J. V. Breisky and T. Draper. 1,924,304; Aug. 29.
Bushings from strip metal, Making. J. H. Davis. 1,924,280; Aug. 29.
Button, Tufting. W. B. Mathewson. 1,924,212; Aug. 29.
Cabinet. G. R. Hogan. Des. 90,580; Aug. 29.
Cabinet for radioreceiver. R. G. F. Loewy. Des. 90,586; Aug. 29.
Cabinet, Portable picnic. J. H. Woods. 1,924,430; Aug. 29.
Cabinet, Storage and display. E. M. Fritz and E. K. and F. W. Thomas. 1,924,117–18; Aug. 29.
Cable equalizer. N. O. Lindstrom and L. G. Persson. 1,924,690; Aug. 29.
Cables, Method for the compensation of capacity unbalances in the groups of cores of telegraph and telephone. H. W. Droste and H. Kirchdörfer. 1,924,840; Aug. 29.
Calculating machine. W. S. Gubelmann. 1,924,653; Aug. 29.
Cam testing device. L. C. Shippy. 1,924,260; Aug. 29.
Camera casing. J. Mihalyi and W. D. Teague. Des. 90,589; Aug. 29.
Camera casing. W. D. Teague. Des. 90,602; Aug. 29.
Can cooling and transferring mechanism. F. D. Chapman. 1,924,271; Aug. 29.
Can feeding mechanism. A. B. Almgren. 1,924,146; Aug. 29.
Cane and popgun, Combined. M. L. Orr. 1,924,957; Aug. 29.
Cannula package. J. Grifols Y Roig. 1,924,785; Aug. 29.
Cap, Delay. H. R. Alexander. 1,924,342; Aug. 29.
Capacity increasing means for counting wheels. B. H. Tingley. 1,924,526; Aug. 29.
Capping machine. W. R. Roberts. 1,924,753; Aug. 29.
Carbon deposits from internal combustion engines, Removing. E. Bartholomew. 1,924,704; Aug. 29.
Carbon deposits, Removing. W. G. Lovell and T. A. Boyd. 1,924,722; Aug. 29.
Carbon dioxide in solid form, Producing. E. B. Auerbach. 1,925,041; Aug. 29.
Carbon dioxide, Obtaining pure. G. A. Bragg. 1,924,178; Aug. 29.
Carburetor. M. E. Chandler. 1,924,595; Aug. 29.
Card, Ledger. S. M. Rubin. 1,924,755; Aug. 29.
Carriage, Hospital. Frank and F. Koenigkramer. Des. 90,585; Aug. 29.
Carriage, Oscillating a baby. F. P. Grunkemeyer. 1,924,493; Aug. 29.
Carrier: *See*—
Weft carrier.
Carton, Compartmented. F. D. Willi. 1,924,823; Aug. 29.
Case: *See*—
Display case. Packing case.
Cash register. C. W. Green. 1,924,278; Aug. 29.
Cash register. W. H. Robertson. 1,924,290; Aug. 29.
Casserole and base therefor, Combined. P. E. Willman. Des. 90,608; Aug. 29.
Casting machine. A. Vyn. 1,924,221; Aug. 29.
Casting machine, Centrifugal. L. H. Brown. 1,924,976; Aug. 29.
Cathode structure for thermionic devices. A. W. Hull. 1,924,319; Aug. 29.
Cathode structure for thermionic devices. O. W. Pike. 1,924,375; Aug. 29.
Cavitation free fluid joint. H. Mueller. 1,924,621; Aug. 29.
Cell feed. F. G. Wheeler and H. H. Heller. 1,924,822; Aug. 29.
Celluloid embossing process. T. M. Nixon. 1,924,800; Aug. 29.
Cellulose fiber, Refinement of. G. A. Richter. 1,924,623; Aug. 29.
Cellulose or the like from treating liquid, Separating. W. Claus and E. Schmidt. 1,924,433; Aug. 29.
Cellulose solution and cellulose derivative and making same. C. Graenacher. 1,924,238; Aug. 29.

Chain: *See*—
Antiskid chain. Tire chain.
Chain. G. G. Mize. 1,925,055; Aug. 29.
Chain lock. S. Segal. 1,924,627; Aug. 29.
Chair: *See*—
Folding chair.
Chair. R. B. Brown. Des. 90,572; Aug. 29.
Change speed gear. K. Maybach. 1,924,128; Aug. 29.
Change speed mechanism. S. E. Secoy. 1,924,756; Aug. 29.
Chaplet. L. C. Hobart. 1,924,280; Aug. 29.
Chasers, Holding. E. T. Bysshe and R. R. Finn. 1,924,735; Aug. 29.
Check Indorser. W. H. Lyman and P. F. Fischel. 1,924,693; Aug. 29.
Cheese mold. E. F. Kasten. 1,924,500; Aug. 29.
Chime. G. L. Bossard. 1,924,395; Aug. 29.
Chimney flue cover. J. A. Johnson. 1,924,437; Aug. 29.
Chuck for holding bar stock and the like. E. H. Benford. 1,924,301; Aug. 29.
Cigar and making same. M. S. Kayner. 1,924,993; Aug. 29.
Cigarette, match, and ash holder, Combined. W. J. Wirth. 1,924,730; Aug. 29.
Cigarette rolling machine, Manually operable. P. Gay. 1,924,643; Aug. 29.
Circuit, Motor control. J. D. Ryder. 1,924,458–9; Aug. 29.
Circuit, Voice current repeater. E. K. Sandeman, P. R. Thomas, and C. R. Dunham. 1,924,131; Aug. 29.
Clamp: *See*—
Battery terminal clamp. Strain clamp.
Safety clamp.
Clamping device. A. Lindner. 1,924,742; Aug. 29.
Clay masses, Forming plastic. D. H. Rowland and K. Wetzel. 1,925,058; Aug. 29.
Cleaner: *See*—
Boiler cleaner. Tube end cleaner.
Cleaner for implement wheels. E. Boddel. 1,924,626; Aug. 29.
Cleaning and regenerating compound for electronic tubes. H. J. Miller. 1,925,076; Aug. 29.
Cleaning mechanism. W. G. Wallenbeck. 1,924,886; Aug. 29.
Clock, Alternating current. L. Hammond. 1,924,853; Aug. 29.
Clock winding mechanism. A. W. Fowler. 1,924,116; Aug. 29.
Closure cap. F. C. Cruse. 1,924,308; Aug. 29.
Closure cap securing device for containers. J. W. Kaye. 1,924,242; Aug. 29.
Closure, Protective. C. A. Scheeler. 1,924,330; Aug. 29.
Cloth forming mechanism. F. N. Ross and B. F. Everitt. 1,924,257; Aug. 29.
Clutch: *See*—
Automatic clutch.
Clutch. A. A. Conway. 1,924,108; Aug. 29.
Coal treatment process. H. J. Rose and W. H. Hill. 1,925,005; Aug. 29.
Coatings on metal surfaces, Forming separable plated. C. E. Marker. 1,924,410; Aug. 29.
Coffeepot or similar article. P. E. Willman. Des. 90,607; Aug. 29.
Coil for induction furnaces. E. Esmarch. 1,924,680; Aug. 29.
Coin slide. F. L. Mills. 1,924,618; Aug. 29.
Coke, Apparatus for and method of producing. F. Puening. 1,924,198; Aug. 29.
Coke, Marking. G. V. McGurl. 1,924,194; Aug. 29.
Collar point pressing machine. H. J. Witham. 1,924,671; Aug. 29.
Color, Apparatus for measuring. D. Nickerson. 1,924,747; Aug. 29.
Color cinematographic apparatus. J. A. Ball. 1,924,901; Aug. 29.
Column pile and method. M. Blumenthal. 1,924,346; Aug. 29.
Combination lock. A. Furino. 1,924,987; Aug. 29.
Comestibles, Method and apparatus for rapid freezing and handling of. W. J. Finnegan. 1,925,033; Aug. 29.
Compass, Gyroscopic. H. Anschütz-Kaempfe. 1,924,688; Aug. 29.
Composite structure. H. C. Fisher. 1,924,601; Aug. 29.
Concrete building. R. C. Olmsted. 1,924,801; Aug. 29.
Concrete wall and building and finishing same. H. B. Olney. 1,924,724; Aug. 29.
Condensation product and producing same, Phenolic. L. V. Redman, A. J. Weith and F. P. Brock. 1,924,514; Aug. 29.
Condensation product from urea and an alcohol or a ketone and preparing them. M. Paquin. 1,924,253; Aug. 29.
Condensation products of 1.4.5.8-naphthalene-tetracarboxylic acid and preparing it, Mono-molecular. W. Eckert and O. Braunsdorf. 1,924,000; Aug. 29.
Condenser: *See*—
Electrical condenser. Electrolytic condenser.
Condenser. W. J. Homer. 1,924,435; Aug. 29.
Conductors, Measuring and indicating properties of. A. Allen. 1,924,087; Aug. 29.
Confection. M. G. O'Leary. Des. 90,591; Aug. 29.
Connecter: *See*—
Rotatable connecter.
Connection. Electrical and mechanical. A. Tauber. 1,924,334; Aug. 29.

Connection for draw works girt, Adjustable. W. D. Sawyer. 1,924,199; Aug. 29.
Connections in vacuum valves, Interrupting. B. Wienecke. 1,924,266; Aug. 29.
Construction material. C. Gibbons and E. H. Tate. 1,924,548; Aug. 29.
Consumer package of meat products. C. Birdseye. 1,924,903; Aug. 29.
Container. W. C. Mills. 1,924,899; Aug. 29.
Container. H. B. Walter. 1,924,222; Aug. 29.
Container. C. H. Williamson. 1,924,143; Aug. 29.
Container. D. H. Zell. 1,924,897; Aug. 29.
Container for fire extinguishers. W. L. Roessner. 1,924,882; Aug. 29.
Container for relatively large sheets. H. L. De Lisle. 1,924,109; Aug. 29.
Container for shaving cream, toothpaste, and the like. H. C. Everett, jr., and C. L. Migliaccio. 1,924,205; Aug. 29.
Container, made of composite material, Cylindrical and the like. C. L. Keller. 1,924,609; Aug. 29.
Containers and chimes therefor, Making. L. B. Wackman. 1,924,893; Aug. 29.
Control apparatus. W. G. Cook and H. D. James. 1,924,306; Aug. 29.
Control apparatus for railway switches. W. C. McWhirter. 1,924,360; Aug. 29.
Control for self-propelled vehicles. F. Ljungstrom. 1,924,867; Aug. 29.
Control mechanism. M. L. Strawn. 1,924,138; Aug. 29.
Control system for car couplers and electric circuits. H. E. Van Dorn. 1,924,821; Aug. 29.
Control system for dynamo-electric machines. J. P. Skillen. 1,924,331; Aug. 29.
Control system for moto-generator locomotives. D. R. and E. I. Staples. 1,924,332; Aug. 29.
Convertible bed table. G. Klotz. 1,924,945; Aug. 29.
Conveyer mechanism, Swinging. A. J. Penote. 1,924,455; Aug. 29.
Conveyer of the belt type. J. Thomson. 1,925,014; Aug. 29.
Conveyer, Pneumatic. G. Bernert. 1,924,675; Aug. 29.
Conveyer system. S. Eggleston. 1,924,488; Aug. 29.
Conveying mechanism for furnaces and the like. E. N. Millan and P. C. Jones. 1,924,452; Aug. 29.
Cooking vessel, Heat insulated. A. T. Smith. 1,924,699; Aug. 29.
Cooling air flow control for vehicle-engines. E. G. Petersen. 1,924,654; Aug. 29.
Copper oxide rectifier. A. L. Atherton. 1,924,300; Aug. 29.
Counter, Vegetable spray. H. H. Long. 1,924,505; Aug. 29.
Counting machine. K. A. Lehmann and M. Zakowski. 1,924,794; Aug. 29.
Counting mechanism. J. W. Sager. 1,924,571; Aug. 29.
Coupling: *See*—
Hose coupling.
Cover: *See*—
Chimney flue cover. Unitary spring cover.
Cover for containers. L. B. Koch and A. Bodor. 1,924,863; Aug. 29.
Crack filler. R. C. Burket. 1,924,636; Aug. 29.
Crate, Bottle. H. Wildberg. 1,924,475; Aug. 29.
Crystal oscillator and resonator. E. D. Tillyer. 1,924,297; Aug. 29.
Cuff link. H. Hyman. 1,924,791; Aug. 29.
Culinary machine. W. E. Harvie. 1,924,991; Aug. 29.
Cultivator. N. E. Nunnery. 1,924,956; Aug. 29.
Curling iron. E. S. McCandless. 1,924,939; Aug. 29.
Current supply means. F. Schröter. 1,924,418; Aug. 29.
Current supply, Portable. P. F. Scofield. 1,924,462; Aug. 29.
Currents, Filtering electric. G. B. Crouse. 1,924,486; Aug. 29.
Curtain or the like. M. Sadinoff. Des. 90,562; Aug. 29.
Cushion, Bed pan. B. I. C. Young. 1,924,204; Aug. 29.
Cushion device, Pneumatic. F. Faudi. 1,924,234; Aug. 29.
Cushioning device. D. F. Sproul. 1,924,814; Aug. 29.
Cut-off machine. W. H. Mason. 1,924,162; Aug. 29.
Cutter: *See*—
Gasket cutter.
Cutting blade lock, Inserted. O. Severson. 1,924,887; Aug. 29.
Cyanogen compounds from gases, Removal of. C. J. Hansen. 1,924,206; Aug. 29.
Cyclic compounds, Hydrogenation of. M. A. Kuns, K. Koeberle and E. Berthold. 1,924,443; Aug. 29.
Cyclohexylamines, Preparing. G. Kranzlein, M. Corell and W. Doble. 1,924,441; Aug. 29.
Damper for crank shafts, Vibration. E. G. Gunn. 1,925,073; Aug. 29.
Damper for explosion motors, Vibration. T. J. Litle, jr. 1,925,074; Aug. 29.
Decorations, Mounting. T. S. Reese. 1,924,961; Aug. 29.
Delivery mechanism for vending machines. B. L. Fry. 1,924,780; Aug. 29.
Dental castings and composition employed in said method, Method of making. T. E. Moore. 1,924,874; Aug. 29.
Dental massaging appliance. A. B. Troupa. 1,924,887; Aug. 29.
Denture. C. H. Wharton. 1,924,265; Aug. 29.
Diaphragm for apparatus for picture telegraphy. H. G. Thilo. 1,924,700; Aug. 29.
Diaphragms, Making. J. S. High. 1,924,816; Aug. 29.
Dichromates, Manufacture of. J. E. Demant. 1,924,710; Aug. 29.
Die for drying fibrous articles, Heated. G. J. Manson. 1,924,409; Aug. 29.
Discharge mechanism for fluid under high pressure. W. I. Carpenter. 1,924,637; Aug. 29.
Discharge tube display. F. Hotchner. 1,924,497; Aug. 29.
Disintegrator. M. Aurig. 1,924,828; Aug. 29.
Disk damper control. V. F. Feipel. 1,924,985; Aug. 29.
Dispensing device for collapsible tubes. H. H. Miles. 1,924,195; Aug. 29.
Dispensing structure. E. W. Lodge. 1,924,561; Aug. 29.
Display case. N. Owitz. 1,924,871; Aug. 29.
Display device. M. B. Jester and A. J. Smith. 1,924,406; Aug. 29.
Display device. R. E. Neifert. 1,924,955; Aug. 29.
Display rack and reel. L. A. Macklanburg. 1,924,645; Aug. 29.
Distance, Measuring. R. W. Hart. 1,924,156; Aug. 29.
Distance, Measuring. E. Wolf. 1,924,174; Aug. 29.
Distilling. A. E. Flowers. 1,924,919; Aug. 29.
Doll. R. Dumont. Des. 90,575; Aug. 29.
Dolly for washing machines. C. C. Unruh. Re18,928; Aug. 29.
Door control mechanism. H. H. Marshall. 1,924,450; Aug. 29.
Doorlock, Cold storage. C. J. Anderson. 1,924,898; Aug. 29.
Doorlock mechanism, Electrically operated. R. M. Hyla. 1,924,940; Aug. 29.
Double window or window ventilator. W. H. Kohler. 1,924,284; Aug. 29.
Draft gear. W. E. Gray. 1,924,604; Aug. 29.
Drain valve, Automatic. I. J. McGuire. 1,924,250–1; Aug. 29.
Drawing instrument. J. H. Graham. 1,924,094; Aug. 29.
Drier. C. P. Barker. 1,924,100; Aug. 29.
Drilling pressure converted products by contained heat. E. J. Shaeffer, G. W. Watts, E. P. Brown, and R. E. Wilson. 1,924,520; Aug. 29.
Driving means for warp stop motions. J. Hyde. 1,924,790; Aug. 29.
Drum shaft assembly, Water-cooled. D. M. Smith and G. Tremolada. 1,924,216; Aug. 29.
Duct support. G. E. Blinn. 1,924,305; Aug. 29.
Dumping receptacle. G. O. Harm and R. R. McBride. 1,924,927; Aug. 29.
Dust bag. M. Marshall. 1,924,249; Aug. 29.
Dyes containing chromium and the resulting product. E. A. Sack. 1,924,696; Aug. 29.
Dyestuffs and intermediates, Production of. D. A. W. Fairweather and J. Thomas. 1,924,774; Aug. 29.
Dyestuffs and its production, Vat. M. A. Kuns, K. Koeberle, and E. Berthold. 1,924,444; Aug. 29.
Dyestuff of the anthraquinone series. G. Krünslein, M. Corell, and E. Diefenbach. 1,924,442; Aug. 29.
Earth moving device. R. L. Harrison. 1,924,358; Aug. 29.
Earth moving device. R. L. Harrison. 1,924,360; Aug. 29.
Eaves-trough clamping tool. A. M. Moore. 1,924,799; Aug. 29.
Egg product, Stabilized. C. J. Beckert, W. Kritchevsky, and B. R. Harris. 1,924,972; Aug. 29.
Egg product, Stabilized. B. R. Harris, C. J. Beckert, and W. Kritchevsky. 1,924,990; Aug. 29.
Egg product, Stabilized. W. Kritchevsky, B. R. Harris, and C. J. Beckert. 1,924,947; Aug. 29.
Elastic fabric. W. Eustis. 1,924,598; Aug. 29.
Electric battery. G. W. Heise. 1,924,314; Aug. 29.
Electric car heater. G. F. Wennagel and C. Thomas. 1,924,298; Aug. 29.
Electric cutting machine, Portable. I. Jeppeson. Des. 90,581; Aug. 29.
Electric machine. O. P. Koch. 1,924,864; Aug. 29.
Electric machine, Dynamo. H. L. Smith. 1,924,135; Aug. 29.
Electric motor-controlling means. A. M. Flanders and J. T. Desureau. 1,924,775; Aug. 29.
Electric protective system and relay for use therein. H. Laben and N. Cooke. 1,924,247; Aug. 29.
Electric switch. H. E. Norviel. 1,924,252; Aug. 29.
Electric switch. W. C. Tregoning. 1,924,818; Aug. 29.
Electrical apparatus. M. W. Kenney. 1,924,862; Aug. 29.
Electrical condenser. L. Edenburg. 1,924,711; Aug. 29.
Electrical contact. C. Ringwald. 1,924,415; Aug. 29.
Electrical control system. G. D. Bower. 1,924,907; Aug. 29.
Electrical device. L. Barnett. 1,924,902; Aug. 29.
Electrical feeler. O. V. Payne. 1,924,197; Aug. 29.
Electrical gas daylight holdup protection system. B. C. Goss. 1,924,783; Aug. 29.
Electrical resistor. H. L. Bradley. 1,924,105; Aug. 29.
Electrical resistor elements, Apparatus for insulating. E. L. and A. P. Wiegand. 1,924,474; Aug. 29.
Electricians' tool. W. Crause. 1,924,837; Aug. 29.
Electrode elements of vacuum tubes. H. J. Miller. 1,925,075; Aug. 29.
Electrolytic condenser. L. Hemmond. 1,924,606; Aug. 29.
Electromagnetic device. H. C. Graves, jr., and H. J. Schmid. 1,924,686; Aug. 29.
Elevator: *See*—
Bucket elevator.
Elevator control system. H. W. Mattingly and W. F. Eames. 1,924,827; Aug. 29.

Elevator safety brake. J. Dunlop. 1,924,810; Aug. 29.
Elevator safety braking system. H. D. James. 1,924,320; Aug. 29.
Elevator system. H. V. McCormick. 1,924,867; Aug. 29.
Emergency valve. W. N. Glab. 1,924,856; Aug. 29.
Emulsions, Apparatus for forming. W. E. Howard. 1,925,049; Aug. 29.
Engine: *See*—
Internal combustion engine. Turbine engine.
Steam engine. Two cycle engine.
Engine demonstrator, Radial gas. R. C. Lindberg. 1,925,040; Aug. 29.
Engine starting apparatus. C. H. Davis, jr. 1,924,229; Aug. 29.
Engine tester. T. G. Blose. 1,924,975; Aug. 29.
Engraving machine. H. B. Scott and E. Warner. 1,924,293; Aug. 29.
Engraving machine and the like. G. Gorton. 1,925,086; Aug. 29.
Esters and preparing the same, Wax-like. D. K. Tressler. 1,925,063; Aug. 29.
Esters, Making organic. O. Spring. 1,924,575; Aug. 29.
Esters, Manufacture of. S. R. Merley and O. Spring. 1,924,615; Aug. 29.
Esters, Manufacturing organic. S. R. Merley. 1,924,616; Aug. 29.
Esters of resin acids, Producing. A. C. Johnston. 1,924,934; Aug. 29.
Explosive. H. H. Champney. 1,924,912; Aug. 29.
Extension for socket wrenches. G. F. Croessant. 1,924,089; Aug. 29.
Eyeglass frame. F. G. Marciano. 1,924,951; Aug. 29.
Fabric. J. Erkes. Des. 90,576; Aug. 29.
Fabric and treating the same. E. Cadgène. 1,924,677; Aug. 29.
Fabric, Making a laminated. M. Buffington. 1,924,635; Aug. 29.
Fan, Electric. W. V. Matthews. Des. 90,588; Aug. 29.
Fastener. A. Reekers. 1,924,165; Aug. 29.
Fastener setting machine. W. J. De Witt. 1,924,982; Aug. 29.
Faucet, Water. S. Kersten. 1,924,942–3; Aug. 29.
Feed for hook fasteners, Automatic. L. Roseman. 1,924,569; Aug. 29.
Felt paper pulp, Making. M. Skolnik. 1,924,815; Aug. 29.
Fence construction. F. G. Carrel. 1,924,834; Aug. 29.
Fibrous web for artificial leathers or the like. M. O. Schur. 1,924,573; Aug. 29.
Filament. A. B. Du Mont. 1,924,543; Aug. 29.
Filing rack. E. B. Adams. 1,924,096; Aug. 29.
Film package. M. R. Kondolf. 1,924,324; Aug. 29.
Film reel for cinematograph apparatus. L. Goldhammer and F. Stiefenhofer. 1,924,093; Aug. 29.
Film strip developing device, Photographic. R. J. Kittredge. 1,924,944; Aug. 29.
Films for the reproduction of picture films in combination with sound films, (talking films), Producing and reproducing. E. Dessau. 1,924,110; Aug. 29.
Filter: *See*—
Light filter.
Filter-amplifier combination. H. Chireix. 1,924,397; Aug. 29.
Firearm. C. C. Loomis. 1,924,692; Aug. 29.
Firearm, Superposed barrel, breech-loading. L. Ribe. 1,924,856; Aug. 29.
Fire extinguishing compound. A. J. Gilleo. 1,924,401; Aug. 29.
Fitting, Flush out. H. H. House. 1,924,498; Aug. 29.
Floor. M. Gray. 1,925,068; Aug. 29.
Flooring, Laying wood block. W. F. Livesey. 1,925,070; Aug. 29.
Flotation method. M. S. Hansen. 1,924,607; Aug. 29.
Fluid apparatus. E. A. Weaver. 1,924,894; Aug. 29.
Fluid controlling device. B. Krämer. 1,924,325; Aug. 29.
Fluid pressure operated device. J. W. Tatter. 1,924,883; Aug. 29.
Flush valve rod. J. Sachs. 1,924,881; Aug. 29.
Folder for paper-bag making and similar machines, Rotary. S. G. Rowles. 1,924,754; Aug. 29.
Folder or booklet to be attached to a can or the like. R. R. Brown. 1,924,909; Aug. 29.
Folding chair. A. I. Pasternack and D. G. Pasternack. 1,924,329; Aug. 29.
Foot instep support. A. H. Kay. 1,924,792; Aug. 29.
Footwear and making same. C. Ferrettie. 1,924,716; Aug. 29.
Footwear and making same. J. E. Taber. 1,924,663; Aug. 29.
Form, Sock. S. J. Johnson. 1,924,933; Aug. 29.
Forming apparatus. J. N. Whitehouse. 1,924,340; Aug. 29.
Frame: *See*—
Eyeglass frame. Roving frame.
Freezing system, Quick. R. V. Grayson and E. G. Ballenger. 1,924,988; Aug. 29.
Friction brake. W. A. Blume. 1,924,845; Aug. 29.
Fruit, Apparatus for pitting. N. A. Curtiss. 1,924,678; Aug. 29.
Fruit cutting machine. A. P. Barnes. 1,924,392; Aug. 29.
Fuel burner. E. H. Forney. 1,924,400; Aug. 29.
Fuel composition and producing the same. E. C. Hennen. 1,925,048; Aug. 29.
Fuel distilling apparatus, Solid. L. Chavanne. 1,924,980; Aug. 29.
Fuel heater. E. M. Dunner. 1,925,032; Aug. 29.
Fuel, Method and apparatus for burning pulverised. R. W. Parry. 1,924,878; Aug. 29.
Fuel, Solid. S. S. Cole. 1,924,180; Aug. 29.
Fuel supply tank. J. E. Hoopes and R. Shoulter. 1,924,741; Aug. 29.
Fuel to furnaces, Feeding pulverized. J. E. Kennedy. 1,924,128; Aug. 29.
Fuel, Treatment of motor. C. D. Lowry, jr., and C. G. Dryer. 1,924,870; Aug. 29.
Furnace: *See*—
Blast furnace. Rotary furnace.
Furnace. C. E. Foster and J. E. Oram. 1,924,920; Aug. 29.
Furnace construction. C. E. Lehr. 1,924,936; Aug. 29.
Furnace control means. A. C. Grant. 1,924,925; Aug. 29.
Furnace for smelting aluminum. J. Schüffler. 1,924,200; Aug. 29.
Fuse. N. J. Conrad. 1,924,484; Aug. 29.
Fuse. N. M. Stephenson. 1,925,060; Aug. 29.
Fuse device. K. Tsukamoto. 1,924,632; Aug. 29.
Fusible unit. A. C. Rowley. 1,925,007; Aug. 29.
Game board. S. Weiss. 1,925,018; Aug. 29.
Garden tool. A. W. Mandelko, jr. 1,924,950; Aug. 29.
Garment, Sanitary. J. G. Frieman. 1,924,642; Aug. 29.
Gas in coke ovens, Apparatus for producing. J. Van Ackeren. 1,924,819; Aug. 29.
Gas manufacture, Continuous. O. Heller. 1,924,856; Aug. 29.
Gas producer. J. Van Ackeren. 1,924,820; Aug. 29.
Gas purification material and using same. H. A. Gollmar. 1,924,185; Aug. 29.
Gas shut-off fire valve device. L. D. Lovekin. 1,924,868; Aug. 29.
Gas, Treatment of fuel. F. W. Sperr, jr. 1,924,813; Aug. 29.
Gases, Method of and apparatus for measuring. T. W. Stone. 1,924,468; Aug. 29.
Gasket cutter. R. A. Hall. 1,924,717; Aug. 29.
Gasoline, Neutralising and sweetening. H. H. Cannon. 1,924,911; Aug. 29.
Gauge cock or valve. J. B. Semon. 1,924,886; Aug. 29.
Gear: *See*—
Change speed gear. Running gear.
Draft gear.
Gear assembly, Landing. G. M. Bellanca. 1,924,481; Aug. 29.
Gear-reduction constant-speed unit with universal motors. E. H. Knight. 1,924,322; Aug. 29.
Gear wheel lapping tool. T. R. Rideout. 1,924,880; Aug. 29.
Gearing, Change speed. E. B. Lathrop. 1,924,559; Aug. 29.
Gears, Cutting. E. Wildhaber. 1,924,476; Aug. 29.
Gears, Process and apparatus for accurately cutting and rectifying. P. E. Amann. 1,925,025; Aug. 29.
Gears, Truing. R. B. Fehr. 1,924,736; Aug. 29.
Gelatin blanks, Preparing. L. T. Troland. 1,924,890; Aug. 29.
Gelatinous surfaces and the like, Cleaning. B. S. Tuttle. 1,924,892; Aug. 29.
Girder, Open truss. E. J. W. Ragsdale. 1,924,880–1; Aug. 29.
Gland. H. E. La Bour. 1,924,407; Aug. 29.
Glass giving daylight effects, Heat resisting. W. H. Rising. 1,924,752; Aug. 29.
Glass, Sealing laminated. G. B. Watkins. 1,924,580; Aug. 29.
Glass surfacing tool. J. L. Drake. 1,924,597; Aug. 29.
Glass, Ultraviolet light transparent. C. Dreyfus. 1,924,398; Aug. 29.
Glass under pressure, Method and apparatus for drawing sheet. E. T. Ferngren. 1,924,599; Aug. 29.
Glove, Latex. L. R. Miller. 1,924,617; Aug. 29.
Golf bag. E. Garfinkel. 1,924,546–7; Aug. 29.
Golf bag stand. E. M. Fritz. 1,924,182–3; Aug. 29.
Golf tee. W. C. Walsh. 1,924,473; Aug. 29.
Governor control. A. A. Bull. 1,924,228; Aug. 29.
Grader and cleaner, Fruit. G. C. Bates. 1,924,008; Aug. 29.
Granular material and method of making. R. L. Atkinson. 1,925,065; Aug. 29.
Grapes, Stemming. A. M. Erickson. 1,924,111; Aug. 29.
Grating, Metal floor. A. Rothman. 1,924,570; Aug. 29.
Grinder, Cutter. H. R. Isler. 1,924,608; Aug. 29.
Grinder, Valve seat. A. M. Patterson. 1,924,958; Aug. 29.
Grinding machine. T. Addison. 1,924,588; Aug. 29.
Grinding machine. G. W. Binns. 1,924,593; Aug. 29.
Grinding machine. H. H. York and A. A. Kottman. 1,924,896; Aug. 29.
Grinding mill. W. Köhler. 1,925,069; Aug. 29.
Guide roll mount. W. W. Sayers. 1,924,807; Aug. 29.
Gum, Stick of chewing. C. E. Peterson. Des. 90,592; Aug. 29.
Gun piston and reservoir latch, Grease. I. L. Eastman. 1,924,841; Aug. 29.
Guns, Automatic firing action for. W. F. Kellotat. 1,924,159; Aug. 29.
Gyroscope for borehole testers and other uses, Directional. E. A. Sperry, jr. 1,924,816; Aug. 29.
Hair clippers. D. B. Brown. 1,924,676; Aug. 29.

Halogen anthraquinone benzacridone. M. A. Kunz, K. Koeberle, and E. Berthold. 1,924,445; Aug. 29.
Hammer, Drop. W. H. J. Fitzgerald and R. P. Fitzgerald. 1,924,545; Aug. 29.
Handle: *See*—
Implement handle.
Hanger: *See*—
Picture hanger.
Hanger for pipes and the like. R. Fitzpatrick. 1,924,353; Aug. 29.
Harrow. E. W. Ruffner. 1,924,517; Aug. 29.
Harrow, Nonclogging. J. Prouty. 1,924,960; Aug. 29.
Harrow, Offset. B. E. Rose. 1,924,416; Aug. 29.
Hat and hat-making art. R. K. Reynolds. 1,924,289; Aug. 29.
Hats, Making. V. P. Writer. 1,924,531; Aug. 29.
Headlight. J. Pecunas. Des. 90,593; Aug. 29.
Headlight attachment. E. Batrack and J. F. Fantauzzo. 1,924,101; Aug. 29.
Headlight, Vehicle. C. W. Dietrich. 1,924,983; Aug. 29.
Heat exchange system control. L. F. Whitney. 1,924,895; Aug. 29.
Heat treating apparatus. F. Brieger. 1,925,028; Aug. 29.
Heat treating furnace, Continuous. A. L. Stevens. 1,924,218; Aug. 29.
Heat treating of comminuted materials, Device for the. F. E. Hobson. 1,924,788; Aug. 29.
Heat treatment of crank-shafts. O. Stoffel, C. Roesch, and C. Sudhaus. 1,924,296; Aug. 29.
Heat treatment of steel rails. J. Brunner. 1,925,029; Aug. 29.
Heater: *See*—
Electric car heater. Fuel heater.
Heating substances such as gypsum in air currents. A. P. E. Bourdet. 1,924,905; Aug. 29.
Heating system. R. W. Harmon. 1,924,928; Aug. 29.
Heating system, Steam. L. Neményi. 1,924,370; Aug. 29.
Heating unit, Symmetrical. W. H. Armacost. 1,924,900; Aug. 29.
Heel lift, Detachable. J. F. Waldelich. 1,924,141; Aug. 29.
Holder: *See*—
Article holder. Price ticket holder.
Lingerie strap holder. Roll paper holder.
Musical trap holder.
Hollow article. J. P. Burke. 1,925,030; Aug. 29.
Hose coupling. A. A. Eisenman. 1,924,712; Aug. 29.
Hose, Overhead swivel arm for lubricant supply. C. G. Wilson. 1,924,428; Aug. 29.
House for brooding. W. D. Bayley. 1,924,480; Aug. 29.
Hydrocarbons, Apparatus for treating. W. R. Howard. 1,924,859; Aug. 29.
Hydrocarbons, Method and apparatus for distillation of. C. D. Gard. 1,924,602; Aug. 29.
Hydrocarbons, Refining. E. C. Herthel. 1,924,687; Aug. 29.
Hydrogen peroxide by distillation, Apparatus for obtaining. J. Müller. 1,924,954; Aug. 29.
Ice cream cone machine. E. Shaloum and J. Matalon. 1,924,463; Aug. 29.
Ignition system. L. B. Sauer. 1,924,292; Aug. 29.
Illuminating device for sewing machines or the like. C. W. H'Doubler. 1,924,157; Aug. 29.
Illumination, Method and system of. R. N. Falge. 1,924,714; Aug. 29.
Implement handle. C. A. M. Massino. 1,925,053; Aug. 29.
Inclinometer. R. B. Turner. 1,924,761; Aug. 29.
Inclinometer. P. Weber. 1,924,339; Aug. 29.
Indicator for distributing apparatus. J. C. Woodcock and P. J. Paffen. 1,924,144; Aug. 29.
Indicator tab. L. S. Graff and R. A. Stewart. 1,924,239; Aug. 29.
Insecticides, Producing. E. R. Rushton. 1,924,518; Aug. 29.
Insects, Method and compounds for repelling. A. Markowsky. 1,924,507; Aug. 29.
Insulating material. A. A. Frey. 1,924,811; Aug. 29.
Intermediate and dyestuff of the dibenzanthrone series. M. A. Perkins. 1,924,456; Aug. 29.
Internal combustion engine. H. C. Edwards. 1,924,843; Aug. 29.
Internal combustion engine. H. C. Edwards. 1,924,847; Aug. 29.
Internal combustion engine. W. R. Griswold. 1,925,071–2; Aug. 29.
Internal combustion engine. A. Renner. 1,925,003; Aug. 29.
Internal combustion engine. J. E. Smith. 1,924,467; Aug. 29.
Iron and chromium chlorides, Separation of. J. C. Michalek. 1,924,129; Aug. 29.
Iron article of manufacture, Surface hardened cast. M. L. A. Babinet. 1,924,344; Aug. 29.
Iron tetracarbonyl, Manufacturing. J. E. Muth. 1,924,453; Aug. 29.
Joint: *See*—
Rail joint. Well pipe joint.
Journal box, Roller bearing. A. O. Buckius. 1,924,270; Aug. 29.
Key retainer. H. R. Segal. 1,924,134; Aug. 29.
Ladder, Extensible fire. H. A. Porter. 1,924,751; Aug. 29.
Lamp. L. M. Schnitzer. Des. 90,594; Aug. 29.
Lamp and method of operation, Electric. C. G. Found, A. W. Hull and J. C. Smith. 1,924,789; Aug. 29.
Lamp door rims, Making. E. Turnquist. 1,924,220; Aug. 29.
Lapping tool. J. B. Kowalsky. 1,924,865; Aug. 29.
Latex compositions, Preparing. A. Szegvari. 1,924,170; Aug. 29.
Lawn roller. W. H. Himmelberger. 1,924,644; Aug. 29.
Lead, Refining. P. W. Davis. Re18,930; Aug. 29.
Leash, Dog. H. C. Davis. 1,924,596; Aug. 29.
Lens system, Unsymmetrical objective. A. W. Tronnier. 1,924,527; Aug. 29.
Lenses, Bifocal. H. A. Toulmin, jr. 1,924,836; Aug. 29.
Light dimmer. W. J. Penney. 1,925,001; Aug. 29.
Light filter. A. Bostroem. 1,924,535; Aug. 29.
Lighting fixture. T. L. Howell. Des. 90,612; Aug. 29.
Limit switch. A. M. Flanders and J. T. Dessureau. 1,924,777; Aug. 29.
Lingerie strap holder. E. L. Santsaver. 1,924,132; Aug. 29.
Lining for vessels, Protective. R. H. Brandt. 1,924,832; Aug. 29.
Linings for casting mold cavities, Making. J. D. Alley. 1,924,267; Aug. 29.
Linings, Forming ditch. W. Leriche and I. V. Beasley. 1,924,560; Aug. 29.
Liquid depth indicator. A. N. Gustine. 1,924,495; Aug. 29.
Liquid dispensing apparatus. G. U. Brake. 1,925,043; Aug. 29.
Liquid measuring device. E. A. Schuelke and J. Ross. 1,924,809; Aug. 29.
Liquids, Cooling. H. W. Taylor and J. T. Smith. 1,924,525; Aug. 29.
Liquids, Device for testing the viscosity of. M. B. Wheeler. 1,924,969; Aug. 29.
Liquids, Treatment of. W. Judson. 1,924,861; Aug. 29.
Lock: *See*—
Chain lock. Safety lock.
Combination lock. Take-up and safety lock.
Cutting blade lock.
Lock washer assembly. C. G. Olson. 1,924,695; Aug. 29.
Locomotive boiler, Water tube. W. A. Austin. 1,925,026; Aug. 29.
Locomotive, Condensing. E. L. and C. A. Schellens. 1,924,841; Aug. 29.
Locomotive feed water system. J. S. Coffin, jr. 1,924,272; Aug. 29.
Locomotive structure. J. J. Zach. 1,924,175; Aug. 29.
Log turner. W. R. Klatt. 1,924,440; Aug. 29.
Loom. A. J. Briggs. 1,925,044; Aug. 29.
Loud speaker. M. E. Paradise. 1,924,803; Aug. 29.
Low pressure diaphragm gauge. P. Gaiser. 1,924,781; Aug. 29.
Lubricating apparatus. O. U. Zerk. 1,924,674; Aug. 29.
Lubricating device. M. C. Huffman. 1,924,499; Aug. 29.
Lubricating device for antifriction spindle bearing. W. H. Hall. 1,924,189; Aug. 29.
Lumber and making same, Compound. R. H. Harwell. 1,924,240; Aug. 29.
Machine for applying heel covers. N. H. Knowlton. 1,924,243; Aug. 29.
Machine for cutting coal. E. Breit and J. H. Ford. 1,924,347; Aug. 29.
Machine for making blanks. C. D. Knowlton. 1,924,160; Aug. 29.
Machine for making packing material. A. E. F. Moone. 1,924,873; Aug. 29.
Machine for sealing. R. M. Zimber and L. A. Hawthorne. 1,924,532; Aug. 29.
Machine for tentering and drying fabrics. E. Prat. 1,924,255; Aug. 29.
Machine for uniting strips of floor covering, or the like, to present a seamless upper surface. W. M. Spring. 1,924,523; Aug. 29.
Machine for uniting strips of floor covering or the like to present a seamless upper surface. F. H. Higgins. 1,924,551; Aug. 29.
Machine for working wheel, roller, and the like blanks. J. Rosenbaum. 1,924,962; Aug. 29.
Magazine or book stand. J. Paulus. 1,924,568; Aug. 29.
Manometric apparatus. G. C. Boulitte. 1,924,104; Aug. 29.
Manway for pressure vessels, Welded. T. McL. Jasper. 1,924,121; Aug. 29.
Marcel wave in hair, Retaining a. H. Siegel. 1,925,009; Aug. 29.
Marker and flower holder. S. F. Britton. 1,924,149; Aug. 29.
Match making machine. R. Van Hoofstadt. 1,924,264; Aug. 29.
Material, Apparatus for subdividing. J. K. Blum. 1,924,536; Aug. 29.
Material treating machine. L. J. Hruby. 1,924,554; Aug. 29.
Materials containing silicic acid or silicates and oxides of heavy or light metals, Treatment of raw. E. J. Kohlmeyer and X. Siebers. 1,924,323; Aug. 29.
Materials, Heating. A. G. Stern. 1,924,136; Aug. 29.
Metal shapes, Method of and apparatus for extruding tubular. S. W. Sparks. 1,924,522; Aug. 29.
Metals, Welding. R. G. Waltenberg. 1,924,528; Aug. 29.
Meter: *See*—
Orifice meter. Sound meter.
Meter and switch mounting support. G. W. Schafer. 1,924,650; Aug. 29.

Meter with theft alarm, Automobile parking. R. W. Babson. 1,924,523; Aug. 29.
Microphone control. C. Dreher. 1,924,679; Aug. 29.
Mill: *See*—
Grinding mill.
Minerals, Treatment of. E. P. Schoch. 1,924,519; Aug. 29.
Mining machine. M. P. Holmes. 1,924,552; Aug. 29.
Mining machine. F. A. Lindgren. 1,924,285; Aug. 29.
Mirror and timepiece, Combined. W. La Hodney. 1,924,997; Aug. 29.
Mold: *See*—
Cheese mold.
Molding machine. A. W. Siser. 1,925,010; Aug. 29.
Molding machine and operating the same. K. E. W. Jadgmann and O. H. Bonter. 1,925,050; Aug. 29.
Mole trap. J. Hassler. 1,924,241; Aug. 29.
Mop. V. M. Bullis. 1,924,978; Aug. 29.
Mop and mop wringer, Combined. J. W. Tatter. 1,924,817; Aug. 29.
Mortar, Preparation of refractory. E. Lux. 1,924,744; Aug. 29.
Motion and the like, Converting. R. W. Rider. 1,924,516; Aug. 29.
Motor armatures, Producing. E. P. Larsh. 1,925,052; Aug. 29.
Motor for internal combustion engines, Starting. F. Price. 1,925,057; Aug. 29.
Motorcycle, Front wheel drive. K. Kansi. 1,924,863; Aug. 29.
Mounting, Brake shoe. R. B. Pogue. 1,924,376; Aug. 29.
Mounting device for concrete wall structures and the like. A. H. Schaffert. 1,924,884; Aug. 29.
Mounting, Loud speaker. F. P. Bartlett. 1,924,591; Aug. 29.
Mounting, Motor. R. K. Lee. 1,924,504; Aug. 29.
Mounting, Roll. H. H. Talbot. 1,924,333; Aug. 29.
Muffler. L. L. Haas and G. C. Starkweather. 1,924,605; Aug. 29.
Musical instrument. A. R. Harmon. 1,924,854; Aug. 29.
Musical system, Synthetic electrical. I. Eremeeff. 1,924,715; Aug. 29.
Musical trap holder. L. B. Greenleaf. 1,924,784; Aug. 29.
Naphtha, Stabilization of. C. C. Miller. 1,924,196; Aug. 29.
Needle, Sewing machine. J. M. Rattie. 1,924,378; Aug. 29.
Nickel-molybdenum alloys, Improving. W. Köster. 1,924,245; Aug. 29.
Nickel-tin-alloys, Improving. W. Köster. 1,924,244; Aug. 29.
Noninterference apparatus. C. S. Jennings. 1,924,556; Aug. 29.
Nozzle, Hose. J. H. Browne. 1,924,150; Aug. 29.
Nut, Lock. A. Wahlers. 1,925,064; Aug. 29.
Odontograph, Generating. J. W. Hughes. 1,924,405; Aug. 29.
Oil and other liquids, Equipment for dispensing lubricating. B. J. Pepper. 1,925,056; Aug. 29.
Oil, Cylinder. F. H. MacLaren and T. H. Rogers. 1,924,211; Aug. 29.
Oil distillation apparatus. A. E. Pew, jr. 1,924,879; Aug. 29.
Oil, Process and apparatus for cracking. G. Egloff. 1,924,848; Aug. 29.
Oil, Treating tung. W. B. Stoddard, T. H. Geiger, and L. M. Burgess. 1,924,524; Aug. 29.
Oils, Packaging of edible. W. G. Christiansen and F. R. Chappell. 1,924,708; Aug. 29.
Oils, Treating hydrocarbon. A. S. Bailey and E. M. Reynolds. 1,924,534; Aug. 29.
Oils, Treatment of hydrocarbon. J. B. Held. 1,924,855; Aug. 29.
Onyx, marble, or the like on glass, Imitating. F. L. Hill. 1,924,787; Aug. 29.
Opener device, Egg. A. Horvath. 1,924,789; Aug. 29.
Orifice meter. G. B. Linderman, jr. 1,924,125; Aug. 29.
Oscillations, Method of and apparatus for receiving high frequency. E. H. Smythe. 1,924,628; Aug. 29.
Oscillator, Low frequency. C. G. Suits. 1,925,011; Aug. 29.
Overpass. B. H. Flynn. 1,924,779; Aug. 29.
Oxides, Apparatus for production of. E. M. Lofland. 1,924,126–7; Aug. 29.
Oxygen evolving preparations, Manufacturing. W. Zisch. 1,924,145; Aug. 29.
Ozone applicator. M. E. Hanson. 1,924,120; Aug. 29.
Ozonides, Apparatus for the production of gaseous. L. H. Rogers. 1,924,805; Aug. 29.
Packer, Formation. W. T. Wells. 1,925,015; Aug. 29.
Packer for oil wells. W. T. Wells. 1,925,016; Aug. 29.
Packer, Rat-hole. W. T. Wells. 1,925,017; Aug. 29.
Packing case C. G. Coulbeaux. 1,924,709; Aug. 29.
Packing, Machinery. C. E. Hubbard. 1,924,555; Aug. 29.
Paint for indicating heat. F. Laske. 1,924,793; Aug. 29.
Paper board, Process and apparatus for sulphurizing. W. R. Willauer. 1,924,142; Aug. 29.
Paper drying apparatus of the festoon type. W. P. McCorkindale. 1,924,612; Aug. 29.
Paper feeding device for printing presses. H. A. W. Wood. 1,924,585; Aug. 29.
Paper machine and making paper. G. A. Engert and G. B. Gibson. 1,924,154; Aug. 29.
Paper, Process and apparatus for coating. T. E. Knapp, jr. 1,924,904; Aug. 29.
Parking meter. E. L. Nichols. 1,924,564; Aug. 29.
Partition wall and constructing the same. K. S. Frazier. 1,924,986; Aug. 29.
Pasteurization. F. C. Reeder. 1,925,002; Aug. 29.
Pen. W. W. Smout. 1,924,420; Aug. 29.
Pencil, Self-feeding. H. I. Richards. 1,924,256; Aug. 29.
Peroxide from tetrahydronaphthalene, Crystallized. M. Hartmann and M. Seiberth. 1,924,786; Aug. 29.
Petroleum hydrocarbons, Distilling. C. F. Tears. 1,925 013; Aug. 29.
Phase shifting reactor. C. A. Boddie. 1,924,803; Aug. 29.
Phenates, Making. J. J. Grebe and W. H. Dow. 1,924,313; Aug. 29.
Phonograph. L. L. Jones and T. E. Plasse. 1,924,283; Aug. 29.
Phonograph. T. E. Plasse. 1,924,287; Aug. 29.
Photo-electric control apparatus. C. C. Thomas. 1,924,189; Aug. 29.
Photo-electric tube. H. H. Geffcken and H. R. Richter. 1,924,275; Aug. 29.
Photoelectric tube. A. J. McMaster. 1,925,054; Aug. 29.
Photo-electric tube. E. D. Wilson. 1,924,299; Aug. 29.
Piano construction. F. W. Kringel. 1,924,720; Aug. 29.
Picker and husker, Corn. A. C. Lindgren, C. R. Raney, and R. B. Hitchcock. 1,925,077; Aug. 29.
Picture and making same, Embossed covered. H. S. Winseler. 1,924,429; Aug. 29.
Picture hanger. F. L. Koehler. 1,924,864; Aug. 29.
Pilot, Wireless controlled automatic. F. S. Hodgman. 1,924,857; Aug. 29.
Pipe: *See*—
Smoking pipe.
Pipe and nut wrench. J. W. Beery. 1,924 393; Aug. 29.
Pipe, Apparatus for and method of extruding. W. B. Shirk, P. H. Brace, and N. C. Goin. 1,924,294; Aug. 29.
Pipe forming machine, Elastic. J. R. Montigel. 1,924,798; Aug. 29.
Pipe section. J. E. Trainer. 1,924,966; Aug. 29.
Pipe structures, Making. C. H. True. 1,924,891; Aug. 29.
Piping. L. W. Saine and A. Hansen. 1,924,657; Aug. 29.
Pitch propeller, Adjustable. F. Charavay. 1,924,349; Aug. 29.
Planter attachment, Corn. L. A. McGlinch. 1,924,509; Aug. 29.
Plaster terminal. I. A. Baum. 1,924,971; Aug. 29.
Plastic and resinous composition of matter and making same. T. S. Carswell. 1,924,396; Aug. 29.
Plastic stock manipulating apparatus. F. J. MacDonald. 1,924,210; Aug. 29.
Plunger pump. E. J. Svenson. 1,924,423; Aug. 29.
Pneumatic inner tube. C. Bradley. 1,924,148; Aug. 29.
Pocket receptacle, Flexible. W. R. Buxton. 1,924,910; Aug. 29.
Pouring unit, Intermediate. M. S. Clawson. 1,924,638; Aug. 29.
Powder and manufacturing same, Smokeless. J. M. Skilling and O. J. Teeple, jr. 1,924,464; Aug. 29.
Power applicator. F. Wulf. 1,924,477; Aug. 29.
Power plant. J. Ruths. 1,925,078; Aug. 29.
Power pump. R. L. Bacher. 1,924,829; Aug. 29.
Power take-off mechanism. F. D. Wilson. 1,924,703; Aug. 29.
Power tool. L. F. Kott. 1,924,946; Aug. 29.
Power transmission and metering device therefor, Hydraulic. R. E. Flanders. 1,924,738; Aug. 29.
Power transmitting apparatus. J. A. Josephsen. 1,924,941; Aug. 29.
Press: *See*—
Printing press.
Press drive. O. C. Roesen. 1,924,625; Aug. 29.
Press unit drive. H. A. W. Wood. 1,924,584; Aug. 29.
Pressure fluid operated tool. E. H. Shaff. 1,924,812; Aug. 29.
Price ticket holder. L. Hopp. 1,924,858; Aug. 29.
Prick punching machine. M. D. Fitzgerald. 1,925,084; Aug. 29.
Printing. B. J. Kelly. 1,924,501; Aug. 29.
Printing press. H. J. Reardon. 1,924,288; Aug. 29.
Printing register. J. F. Ohmer, R. B. Long, and H. W. Baker. 1,924,585; Aug. 29.
Production controller. O. C. Roesen. 1,924,624; Aug. 29.
Propellant powder and making the same. W. E. Wagner. 1,924,967; Aug. 29.
Propellent powder, Producing. O. J. Teeple, jr. 1,924,465; Aug. 29.
Protecting means for rectifier-transformers. G. D. Bower. 1,924,906; Aug. 29.
Protective device for control circuit of electric phonograph or the like. B. E. Mills. 1,924,619; Aug. 29.
Protective means for electrical systems. E. B. Ferrell. 1,924,115; Aug. 29.
Protector: *See*—
Receptacle protector. Trousers protector.
Puffed products, Production of. A. P. Anderson. 1,924,826–7; Aug. 29.
Pulley, Grooved. F. T. Everson. 1,925,046; Aug. 29.
Pulp, Apparatus for bleaching. H. John, C. C. Le Febvre, and H. Du Bois. 1,924,860; Aug. 29.
Pulp making process. M. Skolnik. 1,924,660; Aug. 29.
Pulsator for milking machines. J. L. Hulbert. 1,924,931; Aug. 29.
Pump: *See*—
Plunger pump. Power pump.
Pump. A. R. Kuselewski. 1,924,124; Aug. 29.

Pump and motor, Hydraulic. H. Thoma. 1,924,629; Aug. 29.
Pump for centralized lubricating systems. O. U. Zerk. 1,924,672; Aug. 29.
Pump for lubricating apparatus. J. Bystricky. 1,924,707; Aug. 29.
Pumping apparatus, Electrically operated. D. M. Pearson. 1,924,412; Aug. 29.
Pumping mechanism. J. A. Smith. 1,924,466; Aug. 29.
Quilted goods and making the same. B. F. Klein. 1,924,935; Aug. 29
Rack: *See*—
Filling rack. Shoe rack.
Radiator. T. E. McGrail. 1,924,908; Aug. 29.
Radiator construction. J. F. McIntire. 1,924,952; Aug. 29.
Radio direction finder apparatus. A. Leib. 1,924,408; Aug. 29.
Radioreceiver. H. Craig. 1,924,485; Aug. 29.
Rail ends, Reforming. C. A. Daley. 1,924,838; Aug. 29.
Rail joint. R. Faries. 1,924,684; Aug. 29.
Razor blade, Safety. R. E. Thompson. 1,924,262; Aug. 29.
Razor, Safety. A. Duperron. 1,924,641; Aug. 29.
Razor, Safety. G. Taylor. 1,924,535; Aug. 29.
Reactor. L. O. Marsteller. 1,924,966; Aug. 29.
Receptacle: *See*—
Dumping receptacle. Pocket receptacle.
Receptacle. C. P. Wellman. 1,924,529; Aug. 29.
Receptacle and closure therefor, Metallic. A. C. Vick. 1,924,578; Aug. 29.
Receptacle protector. L. B. Gray. 1,924,926; Aug. 29.
Rectifier device. A. B. Du Mont. 1,924,544; Aug. 29.
Recuperative counter-flow furnace. E. L. Smalley. 1,924,167; Aug. 29.
Reel. R. W. Clemmons. 1,924,541; Aug. 29.
Reel for motion picture machines. P. Buhler. 1,924,977; Aug. 29.
Refractories with metal, Coating. J. D. Morgan. 1,924,876; Aug. 29.
Refractory material, Preparing. E. Lux. 1,924,743; Aug. 29.
Refrigerating apparatus. O. M. Summers. 1,924,662; Aug. 29.
Refrigerating system, Absorption. S. M. Bäckström. 1,924,770; Aug. 29.
Refrigerator of brine-circulation system. K. Yamane. 1,924,235; Aug. 29.
Register, Autographic. R. D. Budlong. Des. 90,573; Aug. 29.
Register, Straight flow volume control. W. T. Truax. 1,924,263; Aug. 29.
Regulating apparatus. A. V. Livingston. 1,924,198; Aug. 29.
Regulator for pumps, Automatic. L. R. Huff. 1,924,930; Aug. 29.
Regulator system. W. Pontow. 1,924,377; Aug. 29.
Relay system. L. N. Crichton. 1,924,807; Aug. 29.
Remote control apparatus for power driven boats. E. E. E. Mullins. 1,925,000; Aug. 29.
Remote control for pitot tubes. H. Star. 1,924,965; Aug. 29.
Remote-control selective device for automatic multiple-record phonographs or the like. B. E. Mills. 1,924,620; Aug. 29.
Remote indication apparatus. R. M. Gilson. 1,924,603; Aug. 9.
Reseling stitching machine. J. Ferrara. 1,924,737; Aug. 29.
Road grading apparatus. H. H. Samuel. 1,924,572; Aug. 29.
Rod: *See*—
Flush valve rod.
Roll paper holder. H. Bowles and J. W. McClintock. 1,924,088; Aug. 29.
Roller: *See*—
Lawn roller.
Roller side bearing. H. F. Wardwell and W. C. Bladin. 1,924,669; Aug. 29.
Roofing and manufacturing same. R. W. Cutler. 1,924,181; Aug. 29.
Rotary furnace. C. P. Debuch. Re18,929; Aug. 29.
Rotatable connecter. E. R. Beriuti. 1,924,302; Aug. 29.
Rotatable switch. A. M. Flanders and J. T. Desureau. 1,924,776; Aug. 29.
Rotor, Squirrel-cage. E. Bisschop. 1,924,103; Aug. 29.
Rowing frame. F. B. Banfield, jr. 1,924,176; Aug. 29.
Rubber, Artificial. W. Bock and E. Tschunkur. 1,924,227; Aug. 29.
Rubber cap-wrench. J. W. Waterhouse. 1,924,579; Aug. 29.
Rubber compositions, Treating. A. Szegvari. 1,924,576; Aug. 29.
Rubber vulcanization. W. Scott. 1,924,574; Aug. 29.
Running gear. M. J. Adams. 1,924,388; Aug. 29.
Sack packer. W. T. Shaler. 1,924,202; Aug. 29.
Safety clamp. H. C. Johansen. 1,924,436; Aug. 29.
Safety lock. S. M. Mercier. 1,925,023; Aug. 29.
Safety mechanism for elevators. C. Maier. 1,924,506; Aug. 29.
Safety switch. J. Lofgren. 1,924,691; Aug. 29.
Safety valve. C. E. Lucke. 1,924,563; Aug. 29.
Salts, Treatment of complex solutions of. A. Lambert. 1,924,503; Aug. 29.
Sand box. G. E. Peterson. 1,924,511; Aug. 29.
Sand spreader. L. M. Young. 1,924,825; Aug. 29.
Sand spreader. L. M. Young. 1,925,020; Aug. 29.
Sanitary toilet seat pack and container. W. V. and P. F. Rea. 1,924,513; Aug. 29.
Sash, Window and store. L. Michaels. 1,924,694; Aug. 29.
Saucepan or similar article. P. E. Willman. Des. 90,602–10; Aug. 29.
Saw miter machine, Combination circular. L. Zachara. 1,924,672; Aug. 29.
Saw setting machine. F. L. Zingheim. 1,924,431; Aug. 29.
Saw teeth, Device for swaging. W. C. Tesch. 1,924,171; Aug. 29.
Scale and loud speaker, Combined weighing. R. L. Rivas and E. Iribarne. 1,924,652; Aug. 29.
Score keeping device. J. L. Balch. 1,924,479; Aug. 29.
Scraper, Roll-over. R. L. Harrison. 1,924,359; Aug. 29.
Seal for driers, Vacuum. A. N. Russell. 1,924,883; Aug. 29.
Seal for gas holders, Liquid. K. Jagschits. 1,924,281; Aug. 29.
Seal, Sand protected by-pass. J. A. Wintroath. 1,924,208; Aug. 29.
Sealing tool. R. T. Edwards. 1,924,844–5; Aug. 29.
Selective receiver. C. Lipmann, A. Strahm, and A. Quinche. 1,924,795; Aug. 29.
Service station. H. O. Alden. Des. 90,611; Aug. 29.
Servo brake of the centrifugal type. G. P. Piganeau. 1,924,254; Aug. 29.
Sewing machine. C. W. Dowd. 1,924,232; Aug. 29.
Sewing machine attachment. A. B. Clark. 1,924,981; Aug. 29.
Shade bracket. E. Jonas. 1,924,862; Aug. 29.
Shade, Lamp. E. Schwarz. Des. 90,595–600; Aug. 29.
Shade, Sleep eye. E. C. and E. M. Hemphill. 1,924,815; Aug. 29.
Shaft and spindle bearing. O. U. Zerk. 1,924,586; Aug. 29.
Shafts, Producing flexible. H. W. Webb. 1,924,701; Aug. 29.
Sharpening device, Razor blade. H. Kuska. 1,924,995; Aug. 29.
Sheet feeding mechanism. A. Broadmeyer. 1,924,908; Aug. 29.
Shield, Draft. H. P. Brown. 1,924,705; Aug. 29.
Shock absorber. L. H. Davis. 1,924,231; Aug. 29.
Shock absorber. F. J. Gibbons. 1,924,164; Aug. 29.
Shock absorber. W. H. Orpen. 1,924,802; Aug. 29.
Shock absorber. A. Peteler. 1,924,372; Aug. 29.
Shock absorber adjusting device. M. Houdaille. 1,924,404; Aug. 29.
Shock absorber and thermostat therefor. A. Peteler. 1,924,374; Aug. 29.
Shock absorber and valve therefor. A. Peteler. 1,924,373; Aug. 29.
Shock absorbing wheel. W. A. Brown. 1,924,269; Aug. 29.
Shoe and making same. V. De Liso. 1,924,542; Aug. 29.
Shoe making. F. C. Close. 1,924,835; Aug. 29.
Shoe rack. P. Jones. 1,924,158; Aug. 29.
Shoe rest mechanism. F. C. Eastman. 1,924,233; Aug. 29.
Shoe stiffeners, Method of and machine for preparing. D. B. and R. B. MacDonald. 1,924,226; Aug. 29.
Shoes, Apparatus for pressing. W. D. Thomas. 1,924,172; Aug. 29.
Shunt phase-balancer. A. D. Dovjikov. 1,924,309; Aug. 29.
Shuttle checking mechanism. A. A. Gordon. 1,924,186–7; Aug. 29.
Shuttle for badminton and the like. A. T. Saunders. 1,924,259; Aug. 29.
Shuttle, Thread cutting. A. Cederlund. 1,924,179; Aug. 29.
Sidewalk sign. W. Edwards. 1,924,852; Aug. 29.
Siding material. G. B. Payne. 1,924,650; Aug. 29.
Signal: *See*—
Automobile signal.
Skate, Roller. E. O. Lieberens. 1,924,948; Aug. 29.
Slag, treatment of. M. O. Sem. 1,924,725; Aug. 29.
Slicing machine. J. C. Van Berkel. 1,924,667; Aug. 29.
Slicing machine. W. A. Van Berkel. 1,924,666; Aug. 29.
Smoking pipe. S. Brown. 1,924,539; Aug. 29.
Snubber. C. A. Tea. 1,924,470; Aug. 29.
Socket shell construction. C. M. Petersen. 1,924,750; Aug. 29.
Sound absorbing material, Manufacturing. G. M. Thomson. 1,924,472; Aug. 29.
Sound meter. B. E. Eisenhour. 1,924,091; Aug. 29.
Speed control apparatus. W. C. Kennedy. 1,924,558; Aug. 29.
Speedometer. E. D. Phinney. 1,924,413; Aug. 29.
Speed transmission mechanism, Variable. J. J. McCarthy. 1,924,508; Aug. 29.
Spindle mounting for insulating machines. R. H. Jenny. 1,924,282; Aug. 29.
Splicing device, Quick change. H. A. W. Wood. 1,924,583; Aug. 29.
Sponge for scouring metal and enamel ware, Artificial. A. Blustein. 1,924,974; Aug. 29.
Spool. G. H. Bird. 1,925,042; Aug. 29.
Spool, Yarn. E. F. Hathaway. 1,924,929; Aug. 29.
Spring compressor. H. W. Kulp and M. C. Dellinger. 1,924,246; Aug. 29.
Spring connecting means. D. S. Barnard. 1,925,066; Aug. 29.

Spring cushion. R. J. and H. G. Beede. 1,924,973; Aug. 29.
Spring hinge and adjustable leaf. E. Bommer. 1,924,537; Aug. 29.
Spring shackle mechanism. O. U. Zerk. 1,924,587; Aug. 29.
Spring shackle, Threaded. J. W. Leighton. 1,924,448; Aug. 29.
Stand: *See*—
Golf bag stand. Magazine or book stand.
Starter for engines. R. C. and A. W. Whittington. 1,924,633; Aug. 29.
Steam engine. R. F. Knight. 1,924,689; Aug. 29.
Steel, Making stainless. A. F. Plock. 1,924,804; Aug. 29.
Steel, Stainless. F. J. Crolius and R. W. Stuler. 1,924,153; Aug. 29.
Steel, Thermally hardening. E. C. Bain and E. S. Davenport. 1,924,099; Aug. 29.
Steering wheel. W. E. Webb. Des. 90,604; Aug. 29.
Stem for pneumatic tires or the like. A. P. Williamson. 1,924,173; Aug. 29.
Stepladder. W. P. Newman. 1,924,213; Aug. 29.
Stereoscope casing. J. H. Bennett. Des. 90,564; Aug. 29.
Stick gripping and centering apparatus for frozen confections. J. W. West. 1,924,224; Aug. 29.
Stocking. C. H. Harpster. 1,924,435; Aug. 29.
Stop motion, Warp. W. C. Howe and O. V. Payne. 1,924,208; Aug 29.
Stop motion, Warp. L. Kasper. 1,925,051; Aug. 29.
Stopple, Sink. W. F. Schacht. 1,925,008; Aug. 29.
Store. C. O. Sherrill. 1,924,963; Aug. 29.
Stove, Vapor. A. J. Yeager. 1,924,824; Aug. 29.
Strain clamp. C. W. and J. T. Kemper. 1,924,438; Aug. 29.
Strand-like articles, Method of and apparatus for transferring. A. G. Pieczentkowski. 1,924,164; Aug. 29.
Stretcher. O. L. Herod. 1,924,496; Aug. 29.
Striker plate. W. S. Saunders. 1,924,806; Aug. 29.
Striping instrument. J. M. Christman. 1,924,273; Aug. 29.
Stripper. R. J. Harry and M. Shutt. 1,924,740; Aug. 29.
Submarine cable loading coil. O. E. Buckley. 1,924,100; Aug. 29.
Sulphite liquor, Treating waste. G. C. Howard. 1,924,861; Aug. 29.
Sulphur from gas purifying materials, Recovery of. H. Bollman and W. Engelmann. 1,925,027; Aug. 29.
Superheater. A. Huet. 1,924,932; Aug. 29.
Superheater for high pressure boilers. T. Fischer. 1,924,918; Aug. 29.
Supply mechanism. J. C. Barnes. 1,924,731; Aug. 20.
Support: *See*—
Duct support. Meter and switch mounting support.
Foot instep support.
Supporter, Hose. G. L. Baker and A. B. Oberg. 1,924,478; Aug. 29.
Supporting means for artificial silk. F. Paschke and P. Franzen. 1,924,749; Aug. 29.
Surface treating device. W. Wilson. 1,925,019; Aug. 29.
Surfacing machine. W. H. Wineman. 1,924,582; Aug. 29.
Surgical instrument, Combination. A. Hall and L. Diamond. Des. 90,579; Aug. 29.
Surgical plaster package. O. C. Schuls. 1,924,810; Aug. 29.
Swatter, Fly. S. G. Monroe and F. Shepard. Des. 90,590; Aug. 29.
Swing, Arm propelled. R. Fletcher. 1,924,683; Aug. 29.
Switch: *See*—
Electric switch. Rotatable switch.
Limit switch. Safety switch.
Switch construction, Banking. G. B. Wadsworth. 1,924,668; Aug. 29.
Switch for use in telephone or like systems, Automatic. W. G. Patterson and E. J. Gachet. 1,924,454; Aug. 29.
Switch mechanism. L. L. Corcoran. 1,924,639; Aug. 29.
Switch mechanism. A. R. Lewellen. 1,924,248; Aug. 29.
Switch operating mechanism. W. H. Doddridge. 1,924,351; Aug. 29.
Switching of railway cars at yards and terminals, Method and apparatus for directing the. L. M. Gibbs. 1,924,491; Aug. 29.
Synchronizer, Shrouded. H. J. Murray. 1,924,875; Aug. 29.
Tabernacle. J. J. Mariotti. 1,924,865; Aug. 29.
Table: *See*—
Convertible bed table.
Table. H. F. Morse. 1,924,953; Aug. 29.
Table. M. Schaffer. 1,924,460; Aug. 29.
Table. J. F. Weatherly. 1,924,223; Aug. 29.
Take-up and safety lock, Combined. E. V. Francis and A. W. Lemmon. 1,925,021–2; Aug. 29.
Tank: *See*—
Fuel supply tank.
Tar distillation. S. P. Miller. 1,924,163; Aug. 29.
Telegraph system and apparatus, Start-stop. R. G. Griffith. 1,924,857; Aug. 29.
Telephone system. M. E. Griffins. 1,924,095; Aug. 29.
Telephone system. R. Mercer and F. Tench. Re18,927; Aug. 29.
Telephone system. R. F. Stehlik. 1,924,661; Aug. 29.
Television apparatus. A. J. Cawley. 1,925,089; Aug. 29.
Television system. A. N. Goldsmith. 1,924,277; Aug. 29.
Terminal. L. A. Koch, jr. Des. 90,584; Aug. 29.

Testing device, Growler type. P. E. Chapman and C. L. Chittenden. 1,924,918; Aug. 29.
Testing machine for beams. R. B. Lewis. 1,924,866; Aug. 29.
Textile fabric. J. Black. Des. 90,565; Aug. 29.
Textile fabric. A. Von Eisenbarth. Des. 90,602; Aug. 29.
Textile fabric or similar article. G. M. King. Des. 90,583; Aug. 29.
Textile fabric or similar article. J. J. Maibach. Des. 90,587; Aug. 29.
Textile fabric or similar article. W. Willheim. Des. 90,605–6; Aug. 29.
Textile printing machine, Intermittent color. A. and A. McNicol, L. A. Gill, and S. B. Stafford. 1,924,614; Aug. 29.
Theft prevention device. W. Nicham. 1,924,746; Aug. 29.
Thermionic device. A. W. Hull and W. A. Ruggles. 1,924,318; Aug. 29.
Thermostat. R. Burkle. 1,924,540; Aug. 29.
Thermostat. C. E. McGregor. 1,924,647; Aug. 29.
Thread, Making rubber. W. A. Gibbons. 1,924,923–4; Aug. 29.
Tie, Form. H. H. Toogood. 1,924,631; Aug. 29.
Time controlled mechanism. L. G. M. Timpson. 1,924,889; Aug. 29.
Time signaling system. H. E. Hershey. 1,924,402; Aug. 29.
Tire chain. A. M. Hanson. 1,925,037; Aug. 29.
Tobacco, Pressing and packing. H. P. Taylor. 1,924,759; Aug. 29.
Tobacco with natural finish, Pressing and packing. H. P. Taylor. 1,924,760; Aug. 29.
Tongs. L. F. Baash and W. H. Maxwell. 1,924,389; Aug. 29.
Tonsillectome. R. F. Brown. 1,924,848; Aug. 29.
Tool: *See*—
Automatic machine tool. Glass surfacing tool.
Electricians' tool. Lapping tool.
Garden tool. Power tool.
Gear wheel lapping tool. Sealing tool.
Tool for wells, Fishing. R. S. Van Meter. 1,924,424; Aug. 29.
Tool head for drilling, boring, and like machine tools, Multiple. O. Stampfl. 1,924,883; Aug. 29.
Toothbrush. D. M. and Z. T. Coney. 1,924,152; Aug. 29.
Tow line and making same. E. W. Jasper. 1,924,992; Aug. 29.
Tower, Automobile parking. J. E. Morton. 1,924,130; Aug. 29.
Toy. G. O. Benson. 1,925,067; Aug. 29.
Toy, Aeroplane bombing. L. T. E. Thompson. 1,924,261; Aug. 29.
Toy, Audible figure. W. Ross. 1,925,006; Aug. 29.
Toy dog. R. H. Breding. Des. 90,568; Aug. 29.
Toy duck. R. H. Breding. Des. 90,566; Aug. 29.
Toy duck. R. H. Breding. Des. 90,569; Aug. 29.
Toy monkey. R. H. Breding. Des. 90,571; Aug. 29.
Toy rabbit. R. H. Breding. Des. 90,570; Aug. 29.
Toy rooster R. H. Breding. Des. 90,567; Aug. 29.
Track, Flexible. H. A. Knox. 1,924,161; Aug. 29.
Track members, Treating railroad. C. A. Daley. 1,924,846; Aug. 29.
Traffic controlling apparatus, Railway. F. H. Nicholson. 1,924,215; Aug. 29.
Train control system. H. P. Trombetta. 1,924,219; Aug. 29.
Transplanter. G. W. Schutmaat. 1,924,133; Aug. 29.
Trap: *See*—
Mole trap.
Trap. J. A. Reese. 1,924,379; Aug. 29.
Tray, Ash. J. Dal Maso. Des. 90,574; Aug. 29.
Trolling lure. J. U. Cordell. 1,924,350; Aug. 29.
Trolling winch. D. M. Bardon, F. G. Greaves, and S. P. Watt. 1,924,301; Aug. 29.
Trousers protector. D. Porreca. 1,924,512; Aug. 29.
Truck and trailer coupling mechanism. R. A. Fontaine. 1,924,235; Aug. 29.
Truck for railway and like vehicles, Bogie. R. T. Glascodine. 1,924,287; Aug. 29.
Truck, Self loading and unloading. I. F. Schreck. 1,924,885; Aug. 29.
Trunk for automobiles, Refrigerating. U. Gelinas. 1,924,494; Aug. 29.
Tub rim, Laundry. R. S. Grogan. Des. 90,578; Aug. 29.
Tube: *See*—
Photo-electric tube. Vacuum tube.
Pneumatic inner tube.
Tube drawing machine. J. V. Giesler. 1,925,035; Aug. 29.
Tube end cleaner. F. F. Fisher. 1,924,682; Aug 29.
Tube for pneumatic tires. R. S. Chitester. 1,925,031; Aug. 29.
Tubular materials, Making. R. G. Brown. 1,924,734; Aug. 29.
Tufting machine. J. B. Farrell. 1,924 715; Aug. 29.
Tungsten carbide alloy, Tough. W. F. Stoody. 1,924,884; Aug. 29.
Tuning device, Selective. C. W. Hough. 1,924,583; Aug. 29.
Turbine engine. G. Stauber. 1,924,421; Aug. 29.
Two-cycle engine. F. G. Shoemaker. 1,924,697; Aug. 29.
Typewriter system, Multiple. J. H. Powers. 1,924,655; Aug. 29.
Typewriting machine. C. Gabrielson. 1,924,119; Aug. 29.

Typewriting machine. R. Von Reppert. 1,924,140; Aug. 29.
Umbrella, Paper. S. Z. Williams. 1,924,426–7; Aug. 29.
Unitary spring cover. W. T. Ferguson and C. B. Eisenhauer. 1,925,047; Aug. 29.
Upholstery, Method of and machine for manufacturing. F. N. Ross and H. L. Johnson. 1,924,258; Aug. 29.
Vaccines, Manufacture of. W. Welchlein. 1,924,968; Aug. 29.
Vacuum tube. F. S. McCullough. 1,924,368; Aug. 29.
Valve: *See*—
Air vent valve.
Automatic control valve.
Automatic drain valve.
Emergency valve.
Safety valve.
Valve. J. P. Ryan. 1,924,417; Aug. 29.
Valve construction. E. J. Svenson. 1,924,422; Aug. 29.
Valve device for water meters and the like, Protection. L. D. Lovekin and J. L. Le Gorre. 1,924,869; Aug. 29.
Valve for explosion turbines, Arrangement of nozzle. H. Holswarth. 1,924,719; Aug. 29.
Valve for inflation purposes. T. Beasley. 1,924,634; Aug. 29.
Valve for internal combustion engines, Rotary. C. W. Hall. 1,924,188; Aug. 29.
Valve locking means. G. A. Bockman. 1,924,831; Aug. 29.
Valve mechanism for gas engines. J. O. Hoamon and E. W. Anderson. 1,924,403; Aug. 29.
Valve stem and low pressure signal switch, Indicating. C. A. Frank. 1,924,921; Aug. 29.
Vault or similar article, Grave. A. F. Beck. Des. 90,563; Aug. 29.
Vehicle, Automotive. N. B. Geddes. Des. 90,577; Aug. 29.
Vehicle, Electric. H. D. Gumpper. 1,924,851; Aug. 29.
Vehicle driving mechanism. A. I. Marcum. 1,924,646; Aug. 29.
Vehicle, Motor. A. H. Mitchell. 1,924,797; Aug. 29.
Vehicle, Multiwheel road. H. B. Fageol. 1,924,984; Aug. 29.
Vending machine. H. S. Benjamin. 1,924,102; Aug. 29.
Ventilating apparatus. R. G. Ferris. 1,924,489; Aug. 29.
Ventilator: *See*—
Window ventilator.
Voltage control for variable speed generators. R. H. Kuehmsted. 1,924,190; Aug. 29.
Voting machine. G. A. Luther. 1,924,449; Aug. 29.
Vulcanization accelerator. L. Orthner, E. Zaucker, and M. Bögemann. 1,924,566; Aug. 29.
Vulcanization accelerator. L. Orthner and M. Bögemann. 1,924 567; Aug. 29.
Wall construction, Building. F. C. Reinke. 1,924,515; Aug. 29.
Warp beam. F. C. Washburn. 1,924,387; Aug. 29.
Warp knitting machine. J. Morton. 1,924,649; Aug. 29.
Washing and drying machine, Combination. C. E. Reddig. 1,925,038; Aug. 29.
Washing machine. S. H. Stoffel. 1,925,061; Aug. 29.
Washing machine cylinder. F. H. Smith. 1,924,521; Aug. 29.
Water craft. P. C. Lombardini. 1,924,949; Aug. 29.
Watercourse, pool, and like construction and landscaping and preparing same. F. H. Leubuscher. 1,924,721; Aug. 29.
Waves by cathode ray tubes, Production of. A. Meissner. 1,924,796; Aug. 29.
Wedge bar. H. H. Toogood. 1,924,630; Aug. 29.
Weft carrier. G. A. Irons, jr. 1,924,191; Aug. 29.
Welding, Apparatus for electric. G. A. Cutter. 1,924,915; Aug. 29.
Well drilling rigs, Mechanism for controlling pressure and feed of tools of rotary. H. W. How and L. H. Johnson. 1,924,317; Aug. 20.
Well drilling system. W. G. Taylor. 1,925,012; Aug. 29.
Welt, Finishing. R. C. Schemmel. 1,924,882; Aug. 29.
Welt for shoes. W. Brown. 1,925,045; Aug. 29.
Wheel: *See*—
Shock absorbing wheel.
Wheel. C. S. Ash. 1,924,970; Aug. 29.
Wheel. J. W. Vanderveer. 1,924,585; Aug. 29.
Wind instrument. V. Fiorino. 1,924,399; Aug. 29.
Window. C. Goering. 1,924,782; Aug. 29.
Window. J. H. Sheard and B. H. Pollock. 1,929,059; Aug. 29.
Window cleaning apparatus. C. Gehrig. 1,924,922; Aug. 29.
Window cleaning device. A. B. Halsey. 1,924,852; Aug. 29.
Window construction. E. D. Barringer. Re18,926; Aug. 29.
Window operating mechanism. H. P. Brown and E. D. Anderson. 1,924,706; Aug. 29.
Window operator, Casement. T. Johnson. 1,924,557; Aug. 29.
Window ventilator. J. G. Moser. 1,924,411; Aug. 29.
Wire, Method and machinery for drawing. J. F. Diehl. 1,924,839; Aug. 29.
Wire rope or cable making machine. P. R. Clark. 1,924,772; Aug. 29.
Work-holder for darning, mending, embroidering, etc. C. K. Fincke. 1,924,490; Aug. 29.
Wrapping machine. E. L. Smith. 1,924,964; Aug. 29.
Wrench: *See*—
Pipe and nut wrench.
Wringer. T. W. Behan. 1,924,535; Aug. 29.
Yarn-support or cop-tube. E. F. Parks. 1,924,510; Aug. 29.
Zinc chlorate weed killer. R. N. Chipman. 1,924,107; Aug. 29.
Zinc oxide, Manufacturing. A. O. Mason. 1,924,872; Aug. 29.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 29, 1933

NOTE.—First number—class, second number—subclass, third number—patent number

2— 15: 1,924,315
46: 1,924,512
194: 1,924,289
240: 1,924,433
276: 1,924,492
278: 1,924,985
4— 56: 1,924,361
113: 1,924,304
149: 1,924,771
244: 1,924,513
293: 1,925,008
5— 260: 1,925,086
332: 1,924,732
8— 2: 1,924,900
10— 104: 1,924,735
12— 33: 1,924,172
42: 1,924,243
122: 1,924,233
142: 1,924,542
13— 20: 1,924,301
15— 120: 1,924,317
121: 1,924,386
143: 1,925,033
167: 1,924,153
188: 1,924,337
1,925,019
202: 1,924,147
228: 1,924,978
232: 1,924,852
250: 1,924,922
16— 121: 1,925,030
181: 1,924,537
18— 2: 1,924,210
12: 1,924,474
14: 1,924,340
45: 1,924,530
50: 1,924,576
1,924,170
53: 1,924,566
1,924,567
1,924,574
54: 1,924,923
1,924,924
58: 1,924,214
59: 1,924,635
20— 1.01: 1,924,330
1,924,746
1.6: 1,924,963
4: 1,924,515
5: 1,924,650
7: 1,925,068
1,925,070
52: 1,924,782
56.4: 1,924,694
69: R. 18,926
91: 1,924,340
22— 65: 1,924,976
73: 1,924,221
95: 1,924,740
184: 1,924,280
188: 1,924,574
23— 6: 1,924,145
8: 1,924,401
38: 1,924,519
53: 1,924,518
56: 1,924,710
68: 1,924,508
76: 1,924,206
87: 1,924,129
100: 1,924,137
142: 1,924,328
148: 1,924,872
150: 1,924,178
160: 1,924,312
203: 1,924,453
227: 1,925,027
255: 1,924,405
262: 1,924,205
265: 1,924,127
267: 1,924,126
24— 27: 1,924,185
31: 1,924,182
90: 1,924,219
110: 1,924,791
126: 1,924,438
191: 1,924,665
237: 1,924,165
24— 260: 1,924,478
263.6: 1,924,436
25— 26: 1,924,706
64: 1,925,050
131: 1,924,630
1,924,631
186: 1,924,267
1,925,059
1,925,065
28— 20: 1,925,002
29— 25: 1,924,902
33: 1,924,894
42: 1,924,738
86.3: 1,924,246
105: 1,924,867
148: 1,924,701
149.5: 1,924,230
152.1: 1,924,114
156.53: 1,925,062
157.6: 1,924,891
160: 1,924,538
30— 1: 1,924,576
12: 1,924,262
1,924,335
1,924,641
31— 45: 1,924,500
62: 1,924,931
32— 4: 1,924,265
33— 27: 1,924,405
75: 1,924,004
174: 1,924,260
215: 1,924,761
220: 1,924,339
226: 1,924,088
34— 20: 1,924,612
48: 1,924,100
1,924,255
1,924,853
35— 12: 1,924,390
16: 1,925,040
36— 4: 1,924,963
1,924,716
42: 1,924,141
71: 1,924,792
78: 1,925,045
37— 108: 1,924,573
1,924,779
140: 1,924,588
1,924,359
1,924,360
40— 7: 1,924,909
23: 1,924,230
127: 1,924,236
138: 1,924,352
145.1: 1,924,864
41— 10: 1,924,835
22: 1,924,787
34: 1,924,439
1,924,500
36: 1,924,501
41: 1,924,677
43: 1,924,961
42— 3: 1,924,180
18: 1,924,692
40: 1,924,646
43— 42: 1,924,350
94: 1,924,241
122: 1,924,579
44— 1: 1,925,035
6: 1,924,189
1,924,194
9: 1,924,570
1,925,048
18: 1,924,457
45— 11: 1,924,228
1,924,460
1,924,945
24: 1,924,460
31: 1,924,989
64: 1,924,898
97: 1,924,897
110: 1,924,963
138: 1,924,297
1,924,298
46— 30: 1,924,261
40: 1,925,006
46: 1,924,967
46— 50: 1,925,067
47— 41: 1,924,149
48— 208: 1,924,856
49— 2: 1,924,532
17: 1,924,899
77.8: 1,924,728
81: 1,924,398
1,924,880
82.1: 1,924,336
51— 43: 1,924,806
48: 1,924,988
73: 1,924,662
95: 1,924,808
109: 1,924,803
153: 1,924,995
177: 1,924,882
184.8: 1,924,865
204: 1,924,380
205: 1,924,502
209: 1,924,507
1,924,773
241: 1,924,958
278: 1,924,648
1,924,736
279: 1,924,974
280: 1,924,748
52— 11: 1,924,912
20: 1,924,967
21: 1,924,464
22: 1,924,465
55— 6: 1,924,644
11: 1,924,980
53: 1,924,416
108: 1,924,517
56— 18: 1,925,077
58— 96: 1,924,134
60— 12: 1,924,421
16: 1,925,003
1,925,057
41: 1,924,719
52: 1,924,138
1,924,422
54.6: 1,924,888
94: 1,925,078
96: 1,924,341
61— 1: 1,924,721
14: 1,924,560
53: 1,924,346
62— 89.5: 1,924,117
101: 1,924,965
114: 1,924,225
1,925,033
116: 1,924,525
119: 1,924,894
1,924,914
119.5: 1,924,770
121: 1,925,041
64— 17: 1,925,046
65— 53: 1,924,926
66— 85: 1,924,649
68— 9: 1,924,671
1,924,973
15: 1,925,038
18: 1,924,521
1,925,061
32: 1,924,535
70— 14: 1,924,627
50: 1,924,940
90: 1,924,308
113: 1,924,937
133: 1,924,531
72— 1: 1,924,414
1,924,801
30: 1,924,724
46: 1,924,986
98: 1,924,971
109: 1,924,884
73— 51: 1,924,533
54: 1,924,495
110: 1,924,781
122: 1,924,965
151: 1,924,091
167: 1,924,125
74— 6: 1,925,071
1,925,072
1,925,073
1,925,074
74— 14: 1,924,756
32: 1,925,055
34: 1,924,941
38: 1,924,516
39: 1,924,404
88: 1,924,580
89: 1,924,126
78: 1,924,616
107: 1,925,000
75— 1: 1,924,097
1,924,103
1,924,352
1,924,851
1,924,725
1,924,726
1,924,727
1,924,729
15: R. 18,930
22.5: 1,924,133
45: 1,924,804
53: 1,924,171
62: 1,924,431
63: 1,924,354
77— 25: 1,924,383
78— 92: 1,924,526
80— 56: 1,924,333
81— 3.1: 1,924,579
9.1: 1,924,844
1,924,845
9.5: 1,924,537
91: 1,924,393
123: 1,924,389
177: 1,924,089
83— 9: 1,924,536
22: 1,925,009
84— 1: 1,924,713
103: 1,924,395
201: 1,924,720
318: 1,924,854
388: 1,924,399
87— 5: 1,924,722
1,924,802
9: 1,924,211
12: 1,924,524
88— 14: 1,924,747
16.2: 1,924,110
19.3: 1,924,901
45: 1,924,951
57: 1,924,527
90— 4: 1,924,476
5: 1,925,025
13.8: 1,924,226
50: 1,924,742
91— 27: 1,924,994
47: 1,924,457
54: 1,924,226
55: 1,924,142
1,924,554
62.6: 1,924,272
70: 1,924,890
92— 3: 1,924,578
13: 1,924,623
1,924,815
14: 1,924,660
29: 1,924,483
39: 1,924,154
93— 2: 1,924,964
27: 1,924,754
54: 1,924,681
58: 1,924,160
94— 30: 1,924,570
39: 1,924,636
95— 90.5: 1,924,752
100: 1,924,944
97—198.1: 1,924,956
98— 43: 1,924,480
99: 1,924,364
1,924,411
101: 1,924,263
99— 2: 1,924,827
10: 1,924,886
11: 1,924,708
14: 1,924,908
15: 1,925,002
101— 66: 1,924,565
152: 1,924,614
220: 1,924,585
101— 220: 1,924,625
236: 1,924,603
309: 1,924,288
396: 1,924,731
416: 1,924,120
102— 10: 1,924,342
103— 38: 1,924,412
102: 1,924,208
111: 1,924,407
161: 1,924,124
162: 1,924,620
174: 1,924,423
104— 36: 1,924,491
105— 44: 1,924,175
106— 9: 1,924,744
10: 1,924,743
22: 1,924,398
36.1: 1,924,752
107— 6: 1,924,540
8: 1,924,224
58: 1,924,463
109— 3: 1,924,365
110— 28: 1,924,878
97: 1,924,274
104: 1,924,123
111— 3: 1,924,133
33: 1,924,509
112— 45: 1,924,737
79: 1,924,715
106: 1,924,569
223: 1,924,981
234: 1,924,378
260: 1,924,232
113— 101: 1,924,799
120: 1,924,893
114— 130: 1,924,571
115— 20: 1,924,949
116— 52: 1,924,778
74: 1,924,413
117— 50: 1,924,772
118— 45: 1,924,176
119— 21: 1,924,480
32: 1,924,207
109: 1,924,595
120— 18: 1,924,256
42: 1,924,420
19: 1,924,812
30: 1,924,545
36: 1,924,234
122: 1,924,680
122— 121: 1,924,209
235: 1,924,350
1,925,026
392: 1,924,550
441: 1,924,272
459: 1,924,130
460: 1,924,932
476: 1,924,918
481: 1,924,377
504: 1,924,595
1,924,907
123— 59: 1,924,457
1,924,607
148: 1,924,262
179: 1,924,843
188: 1,924,403
190: 1,924,188
198: 1,924,704
126— 286: 1,924,985
300: 1,924,824
319: 1,924,437
128— 95: 1,924,640
220: 1,924,916
287: 1,924,642
309: 1,924,843
129— 20: 1,924,109
131— 11: 1,924,709
1,924,709
12: 1,924,529
42: 1,924,643
51: 1,924,730
52: 1,924,988
132— 33: 1,925,009
134— 39: 1,924,763
135— 20: 1,924,426
1,924,427
136— 86: 1,924,314
137— 34.3: 1,924,280
1,924,351
53: 1,924,563
152: 1,924,733
168: 1,924,377
160: 1,924,605
161: 1,924,417
1,924,869
162: 1,924,356
1,924,868
139— 9: 1,924,904
10: 1,924,929
141: 1,925,044
187: 1,924,186
1,924,187
196: 1,924,179
207: 1,924,191
273: 1,924,197
351: 1,924,208
360: 1,924,790
364: 1,925,051
143— 6: 1,924,672
108: 1,924,440
144— 51: 1,924,264
146— 2: 1,924,789
17: 1,924,678
72: 1,924,302
103: 1,924,096
186: 1,925,010
193: 1,924,098
199: 1,924,432
217: 1,924,667
219: 1,924,111
148— 9: 1,924,136
11.5: 1,924,244
1,924,245
150— 1.5: 1,924,182
1,924,183
1,924,546
1,924,547
39: 1,924,702
1,924,910
151— 11: 1,925,084
37: 1,924,686
152— 12: 1,924,173
1,924,634
13: 1,924,148
14: 1,924,286
1,925,037
22: 1,925,031
28: 1,924,209
153— 1.5: 1,924,164
43: 1,924,946
70: 1,924,734
154— 2: 1,924,181
1,924,316
1,924,328
1,924,617
4: 1,924,355
28: 1,924,472
31: 1,924,873
42: 1,924,523
1,924,551
44: 1,924,548
48: 1,924,806
51: 1,924,601
155— 65: 1,924,683
163: 1,924,329
184: 1,924,382
156— 22: 1,924,281
24: 1,924,362
158— 28: 1,924,304
1,924,670
73: 1,924,988
92: 1,924,092
104: 1,924,400
119: 1,924,217
164— 68: 1,924,162
82: 1,924,717
87: 1,925,084
166— 10: 1,925,015
1,925,017

168— 12: 1,925,016
157— 30: 1,924,807
45: 1,924,107
52: 1,924,685
58: 1,924,169
63: 1,924,947
1,924,972
1,924,980
78: 1,924,968
169— 15: 1,924,880
42: 1,925,007
170— 170: 1,924,461
173: 1,924,349
171— 118: 1,924,331
223: 1,924,364
229: 1,924,190
313: 1,924,193
314: 1,924,950
327: 1,924,207
172— 36: 1,924,135
1,924,322
120: 1,924,103
179: 1,924,306
1,924,458
1,924,459
230: 1,924,732
1,924,775
246: 1,924,309
275: 1,924,853
281: 1,925,011
282: 1,924,857
293: 1,924,558
173— 259: 1,924,334
1,924,482
324: 1,924,302
332: 1,924,821
362: 1,924,750
175— 21: 1,924,311
41: 1,924,435
41.5: 1,924,366
183: 1,924,087
1,924,862
1,924,913
1,924,975
294: 1,924,247
1,924,307
315: 1,924,711
320: 1,924,603
363: 1,924,544
1,924,606
366: 1,924,300
1,924,906
176— 124: 1,924,739
177— 311: 1,924,533
314: 1,924,783
346: 1,924,497
352: 1,924,303
353: 1,924,795
178— 6: 1,924,277
1,924,700
1,925,039
17: 1,924,357
33: 1,924,455
44: 1,924,486
1,924,553
46: 1,924,106
179— 2: 1,924,402
18: R. 18,927
1,924,561
27: 1,924,095
27.51: 1,924,454
79: 1,924,840
146: 1,924,591
1,924,679
170: 1,924,131
171: 1,924,268
1,924,397
1,924,409
1,924,536
180— 1: 1,924,493
14: 1,924,703
180— 22: 1,924,646
1,924,984
31: 1,924,363
53: 1,924,466
181— 32: 1,924,808
182— 22: 1,924,498
183— 4: 1,924,840
51: 1,924,240
114.6: 1,924,813
184— 7: 1,924,674
1,924,707
27: 1,924,673
55: 1,924,499
185— 40: 1,924,116
187— 1: 1,924,660
29: 1,924,320
1,924,321
1,924,327
1,924,367
82: 1,924,506
90: 1,924,310
188— 10: 1,924,589
1,924,611
53: 1,924,345
71: 1,924,577
77: 1,924,808
78: 1,924,592
1,924,610
1,924,613
1,925,004
82: 1,925,023
88: 1,924,231
1,924,372
89: 1,924,184
100: 1,924,374
130: 1,924,470
1,924,802
140: 1,924,254
243: 1,924,376
250: 1,924,112
1,924,113
1,924,590
264: 1,924,216
1,924,622
189— 19: 1,924,190
20: 1,924,834
37: 1,924,880
1,924,881
61: 1,924,654
72: 1,925,059
190— 12: 1,924,430
1,924,494
192— 4: 1,924,867
41: 1,924,723
53: 1,924,875
59: 1,924,508
69: 1,924,108
193— 35: 1,924,899
194— 1: 1,924,102
17: 1,924,564
71: 1,924,780
92: 1,924,618
97: 1,924,619
196— 11: 1,924,196
19: 1,924,879
33: 1,924,911
48: 1,924,848
49: 1,924,534
72: 1,925,013
73: 1,924,520
85: 1,924,602
96: 1,924,855
107: 1,924,859
110: 1,924,687
149: 1,924,281
197— 17: 1,924,140
126: 1,924,119
198— 21: 1,924,556
23: 1,924,146
38: 1,924,488
118: 1,924,455
198— 139: 1,925,014
202: 1,924,807
207: 1,925,024
208: 1,925,022
227: 1,925,021
200— 7: 1,924,776
11: 1,924,252
47: 1,924,777
50: 1,924,691
58: 1,924,921
80: 1,924,248
67: 1,924,639
1,924,818
109: 1,924,686
113: 1,924,647
115.5: 1,924,902
117: 1,924,484
126: 1,924,632
131: 1,925,060
138: 1,924,540
166: 1,924,415
175: 1,924,351
201— 50: 1,924,105
202— 9: 1,924,198
30: 1,924,163
52: 1,924,954
63: 1,924,919
121: 1,924,819
257: 1,924,980
204— 2: 1,924,439
5: 1,924,822
8: 1,924,410
19: 1,924,151
205— 7: 1,925,035
21: 1,924,839
206— 52: 1,924,324
1,924,810
63.2: 1,924,785
72: 1,924,371
207— 2: 1,924,294
3: 1,924,522
208— 174: 1,924,948
209— 166: 1,924,607
210— 23: 1,924,861
211— 1: 1,924,955
34: 1,924,158
46: 1,924,006
213— 22: 1,924,604
214— 16.1: 1,924,130
35: 1,924,820
65: 1,924,885
215— 57: 1,924,609
99: 1,924,242
217— 12: 1,924,709
19: 1,924,475
218— 15: 1,924,982
219— 6: 1,924,915
10: 1,924,220
1,921,876
20: 1,924,928
24: 1,924,939
34: 1,924,298
37: 1,924,409
44: 1,924,038
1,924,699
47: 1,924,680
220— 19: 1,924,406
25: 1,924,279
44: 1,924,394
61: 1,924,578
63: 1,924,832
86: 1,924,741
221— 47.1: 1,924,829
47.3: 1,924,841
60: 1,924,195
1,924,561
62: 1,924,999
72: 1,925,056
78: 1,921,205
100: 1,925,043
145: 1,924,419
222— 6: 1,924,905
223— 17: 1,924,933
31: 1,924,531
224— 32: 1,924,343
48: 1,924,882
226— 86: 1,924,753
227— 12: 1,924,751
228— 31: 1,924,213
229— 3.5: 1,924,609
7: 1,924,823
37: 1,924,529
47: 1,924,222
1,924,863
230— 9: 1,924,930
232— 4: 1,924,897
234— 5.7: 1,924,104
235— 2: 1,924,290
30: 1,924,526
55: 1,924,449
60: 1,924,653
90: 1,924,479
98: 1,924,624
131: 1,924,278
132: 1,924,794
139: 1,924,571
236— 11: 1,924,925
93: 1,924,373
99: 1,924,177
237— 67: 1,924,370
238— 244: 1,924,684
240— 1.1: 1,924,714
2.14: 1,924,157
6.46: 1,924,150
7.1: 1,924,983
8.4: 1,924,101
41.4: 1,924,338
48.6: 1,925,001
73: 1,924,538
241— 12: 1,924,295
242— 55.2: 1,924,645
55.5: 1,924,088
58: 1,924,583
70: 1,924,093
1,924,977
77: 1,924,541
118: 1,924,357
1,924,745
1,924,749
123: 1,925,042
125: 1,924,510
244— 2: 1,924,481
12: 1,924,651
1,924,996
19: 1,924,192
29: 1,924,471
31: 1,924,122
246— 63: 1,924,215
1,924,219
411: 1,924,369
247— 2: 1,924,659
1,924,668
3: 1,924,305
248— 7: 1,924,858
14.2: 1,924,504
20: 1,924,784
31: 1,924,353
250— 1: 1,924,156
1,924,174
11: 1,924,115
1,924,408
14: 1,924,485
20: 1,924,628
27: 1,924,418
27.5: 1,924,266
1,924,275
1,924,299
1,924,318
1,924,319
1,924,368
1,924,375
1,924,543
250— 27.5: 1,925,054
1,925,075
1,925,076
36: 1,924,796
251— 9: 1,924,943
27: 1,924,637
113: 1,924,325
144: 1,924,847
252— 2.5: 1,924,185
7: 1,924,361
253— 117: 1,924,621
254— 86: 1,924,276
122: 1,924,477
185: 1,924,301
255— 1: 1,924,425
19: 1,924,317
1,925,012
257— 9: 1,924,447
23: 1,924,271
150: 1,924,552
151: 1,924,998
230: 1,924,900
241: 1,925,032
259— 72: 1,924,202
82: 1,924,991
101: R. 18,928
105: 1,925,049
260— 2: 1,924,253
1,924,979
4: 1,924,514
6: 1,924,227
12: 1,924,606
16: 1,924,786
37: 1,924,445
1,924,446
44: 1,924,060
58: 1,924,166
60: 1,924,442
1,924,664
61: 1,924,443
1,924,444
1,924,458
84: 1,924,434
86: 1,924,774
98: 1,924,934
101: 1,924,238
106: 1,924,575
1,924,615
1,924,616
1,925,063
114: 1,924,769
116: 1,924,762
1,924,763
1,924,764
1,924,765
1,924,766
1,924,767
1,924,768
124: 1,924,698
128: 1,924,441
154: 1,924,313
261— 69: 1,924,595
90: 1,924,828
262— 28: 1,924,285
1,924,347
1,924,552
263— 6: 1,924,167
1,924,452
9: 1,924,218
15: 1,924,936
21: 1,924,788
33: R. 18,929
264— 1: 1,924,658
3: 1,924,228
265— 11: 1,924,989
19: 1,924,866
45: 1,924,917
266— 4: 1,925,028
5: 1,924,920
21: 1,924,842
33: 1,924,200
267— 9: 1,924,814
37: 1,925,047
54: 1,924,448
1,924,587
63: 1,924,237
67: 1,924,718
268— 62: 1,924,450
117: 1,924,557
126: 1,924,706
270— 5: 1,924,548
271— 28: 1,924,908
272— 1: 1,924,511
273— 1.5: 1,924,811
33: 1,924,473
103: 1,924,767
106: 1,924,259
121: 1,925,018
274— 1: 1,924,283
9: 1,924,552
10: 1,924,287
10: 1,924,620
275— 8: 1,924,825
1,925,020
277— 31: 1,924,886
57: 1,924,942
279— 60: 1,924,301
280—33.14: 1,924,992
33.44: 1,924,235
80: 1,924,388
96.1: 1,924,586
158: 1,924,626
283— 66: 1,924,755
285— 84: 1,924,712
106: 1,924,121
111: 1,924,966
134: 1,924,557
288— 1: 1,924,555
290— 1: 1,924,462
17: 1,924,851
86: 1,924,229
88: 1,924,633
292— 173: 1,924,898
342: 1,924,806
293— 55: 1,924,600
294— 27: 1,924,451
67: 1,924,143
86: 1,924,424
296— 1: 1,924,797
20: 1,924,496
44: 1,924,705
298— 8: 1,924,927
299— 34: 1,924,144
86: 1,924,428
301— 11: 1,924,970
12: 1,924,385
302— 50: 1,924,675
305— 10: 1,924,161
306— 6: 1,924,950
308— 11: 1,925,036
12: 1,924,662
15: 1,924,830
41: 1,924,270
179: 1,924,562
187: 1,924,189
189: 1,924,282
1,924,937
226: 1,924,669
237: 1,924,326
312— 126: 1,924,118
171: 1,924,505

U. S. GOVERNMENT PRINTING OFFICE: 1933

Patents Nos. 1,920,165 to 1,920,951

CARNEGIE LIBRARY OF ATLANTA

THE OFFICIAL GAZETTE
OF THE
United States Patent Office

Vol. 433—No. 1 TUESDAY, AUGUST 1, 1933 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.25; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
Issue of August 1, 1933	1
Adjudicated Patents	1
Trade-Marks Canceled	1
Adverse Decisions in Interference	1
Notice of Cancellation	1
Applications Under Examination	2
Decisions of the U. S. Courts—	
Pomeroy v. Walker	3
In re Grapp	5
In re Stovall	7
Patent Suits	7
International Convention—Adhesion Liechtenstein	8
Disclaimers	8
Trade-Marks Published (176 Applications)	11
Trade-Mark Registrations Granted	32
Trade-Mark Registrations Renewed	35
Labels	36
Labels Renewed	37
Prints	37
Reissues	39
Designs	40
Patents Granted	49

August 1, 1933

Trade-Marks	67—No.	305,076 to No.	305,142, inclusive.
T. M. Renewals	33		
Labels	46—No.	42,449 to No.	42,494, inclusive.
Labels Renewed	2		
Prints	13—No.	14,281 to No.	14,293, inclusive.
Reissues	7—No.	18,905 to No.	18,911, inclusive.
Designs	37—No.	90,395 to No.	90,431, inclusive.
Patents	787—No.	1,920,165 to No.	1,920,951, inclusive.
Total	992		

Adjudicated Patents

(C. C. A. Calif.) Pearson patent, No. 1,461,224, for drying apparatus, claim 11 *Held* invalid. *Chapman Dehydrator Co.* v. *Crenshaw*, 65 F.(2d) 69.

(C. C. A. Calif.) Puccinelli patent, No. 1,464,338, for dehydrator, claims 1 and 2 *Held* invalid. *Id.*

(D. C. Md.) Wilson patent, No. 1,848,069, for process of and gauge for weaving pile fabrics, *Held* valid and infringed. *Wilson Plush Mfg. Corporation* v. *Kay & Todd Co.*, 3 F. Supp. 440.

(C. C. A. Ohio.) Jones reissue patent, No. 17,817, for gas furnace, claims 9 and 11–15 *Held* invalid. *L. J. Mueller Furnace Co.* v. *Bryant Heater & Mfg. Co.*, 65 F.(2d) 127.

Trade-Marks Canceled

217,523. Furniture polish. Lee E. Gribbens, doing business as Gribbens Chemical Products Co., Chicago, Ill. Registered August 31, 1926. Canceled July 6, 1933.

255,037. Ice cream. South Side Ice Cream Company, St. Louis, Mo. Registered April 9, 1929. Canceled June 19, 1933.

277,964. Beverages, and preparations for making the same. Edward William Voelpel, doing business as Vol-Pel Beverage Company, Clinton, Iowa. Registered December 2, 1930. Canceled June 19, 1933.

297,168. Hosiery. P. T. Cuthbert & Co., Inc., New York, N. Y. Registered September 6, 1932. Canceled July 6, 1933.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,778,317, H. B. Goldman, Electrohydraulic system for elevator brakes and the like, decided July 8, 1933, claims 5, 18, and 19.

Pat. 1,780,075, George Griffith, Motor propelling mechanism for boats, decided July 11, 1933, claims 1, 2, 5, and 6.

Pat. 1,784,653, A. V. Bedford, Amplifier, decided July 18, 1933, claims 1, 2, 3, and 4.

Pat. 1,788,497, John Sneed, Brake, decided June 19, 1933, claim 1.

Pat. 1,818,916, W. E. Wasen, Traffic line machine, decided June 23, 1933, claims 1, 3, and 7.

Pat. 1,845,755, Walter Kropp, Acrolein condensation product, decided July 11, 1933, claims 4, 5, and 6.

Pat. 1,866,456, Carl Fichandler, Coupling device, decided July 7, 1933, claims 7, 8, and 9.

Notice of Cancellation

U. S. Patent Office, *Washington, July 10, 1933.*

Louis M. Myers, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of the Hanson Scale Company, 523–531 North Ada Street, Chicago, Illinois, to effect the cancellation of the trade-mark registration of Louis M. Myers, Consumers Building, Chicago, Illinois, No. 119,556, dated November 27, 1917, and the notice of such proceeding sent by registered mail to the said Myers at the said address having been returned by the post-office as undeliverable, notice is hereby given that unless said Myers, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business July 15, 1933

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 50,214; Trade-Mark Division, 945. Oldest new case, Mar. 15, 1933; oldest amended, Mar. 15, 1933.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
2624	1. LOEFFLER, F. A., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Mar. 15	Mar. 15	634
5708	2. HERRMANN, D. (Act.), Fishing and Trapping; Dairy; Animal Husbandry; Presses, Tobacco; Velocipedes; Butchering.	Mar. 18	Mar. 20	854
6032	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Apr. 18	Apr. 27	593
7063	4. DONNELLY, A. E. (Act.), Conveyers; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds.	Mar. 22	Mar. 21	596
2625	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Etc.	Apr. 15	Apr. 17	485
6899C	6. LEWERS, A. M., Carbon Chemistry	Mar. 30	Mar. 29	1,106
5725	7. JARBOE, C. G., Optics; Photography	Mar. 28	Mar. 28	1,047
7514	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	May 13	May 5	535
4634	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Apr. 19	Apr. 20	602
2612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Apr. 15	Apr. 15	519
6987B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Mailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Mar. 16	Mar. 18	700
7701	12. HENRY, C. C., Machine Elements; Cylinders and Pistons; Mechanical Starters; Stop Mechanisms	Apr. 3	Apr. 3	626
5004	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Apr. 11	Apr. 11	680
5057	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	Apr. 26	Apr. 24	483
4897	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Mar. 25	Mar. 27	1,196
2612	16. SPENCER, C. J., Telegraphy; Telephony	Apr. 15	Apr. 15	504
5701	17. ARMSTRONG H. (Act.), Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Mar. 15	Mar. 16	1,070
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	May 16	May 16	295
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Mar. 16	Mar. 16	1,017
0813	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	May 26	May 26	242
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Mar. 16	Mar. 16	852
5724	22. RINGLE, D. (Act.), Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion; Boating, Implements.	Mar. 20	Mar. 21	1,032
7892	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Mar. 16	Mar. 16	590
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	May 2	May 6	485
5709	25. BLAKELY, C. F., Agitating; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Communitors.	Mar. 15	Mar. 15	1,131
5803	26. ADAMS, W. M., Electricity, Generation; Motive Power	Apr. 25	Apr. 28	474
5708	27. CLARK, W. N. (Act.), Brushing, Scrubbing, and Cleaning; Washing Apparatus	Apr. 15	Apr. 15	522
4628	28. BENSON, A. R., Internal-Combustion Engines	Mar. 15	Mar. 15	792
5082	29. SHKLARIN, J. B. (Act.), Woodworking; Tools; Compound Tools; Furniture; Metal Working	Apr. 25	Apr. 26	337
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	Apr. 15	Apr. 15	690
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Mar. 16	Mar. 18	1,245
4086	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Apr. 17	Apr. 17	497
6096	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roofs; Wooden Buildings.	Mar. 13	Mar. 16	1,186
6625	34. SAPERSTEIN, S. (Act.), Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders; Fluid Pressure Brakes.	Mar. 15	Mar. 15	1,026
3600	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Filling and Closing Portable Receptacles.	Mar. 21	Mar. 16	788
7624	36. McFAYDEN, A. D. (Act.), Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Mar. 15	Mar. 15	1,331
5880	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 15	Apr. 15	583
7510	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells; Hydraulic Cement and Lime; Roads and Pavements.	Mar. 18	Mar. 18	751
4574	39. WHITNEY, F. J. (Act.), Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Mar. 25	Mar. 25	836
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Mar. 28	Mar. 28	1,430
6082	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices; Typewriting Machines.	Mar. 18	Mar. 29	602
5882	42. CUTTING, H. O., Electric Signaling	Mar. 16	Mar. 15	941
6894B	43. KLINGE, E. F., Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Mar. 27	Mar. 27	983
6067B	44. SHAFFER, C. H., Refrigeration; Dispensing Beverages	Mar. 16	Mar. 17	800
7007	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	May 19	May 19	355
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems	Apr. 4	Apr. 4	592
7600	47. BARKER, H., Clutches; Brakes; Motors	Mar. 20	Mar. 20	995
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Mar. 18	Mar. 16	693
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Separation	Mar. 15	Mar. 16	884
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating Processes; Carbohydrates and Condensation Products.	Mar. 15	Mar. 15	970
5628	51. BACKUS, C. D., Radiant Energy	Apr. 17	Apr. 17	834
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Mains and Pipes.	Apr. 25	May 11	495
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	May 8	May 15	486
5674	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Mar. 18	Mar. 18	851
6887	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery	Apr. 21	Apr. 17	372
	{Designs	June 16	June 10	330
4725	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Mar. 17	Mar. 17	882
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Apr. 21	Apr. 15	417
5805	58. DOWELL, E. F., Abrading	May 1	May 1	370
4709	59. RICHARD, V. I., Chemistry; Fertilizers	Apr. 11	Apr. 11	994
5806	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Mar. 18	Mar. 18	1,009
6724	61. PARKS, G. E., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus	Mar. 17	Mar. 15	601
7525	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles; Cloth, Leather, and Rubber Receptacles.	Apr. 1	Apr. 3	1,291
4888	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Mar. 17	Mar. 18	1,122
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel; Alcohol.	Mar. 30	Mar. 30	1,095
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Mar. 16	Mar. 16	1,077
2699B	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND.—{Trade-Marks	June 16	July 3	813
	{Labels and Prints	June 15	July 1	132

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

POMEROY *v.* WALKER

No. 3,120. Decided April 24, 1933

INTERFERENCE—PRIORITY—RIGHT TO MAKE CLAIM.

Record reviewed and held that W. can make the claim in issue in the interference and that priority was properly awarded to him.

APPEAL from the Patent Office. Affirmed.

Messrs. Cushman, Bryant, Darby & Cushman, Mr. Arlon V. Cushman, and *Mr. Henry T. Horndige* for Pomeroy.

Messrs. Jones, Addington, Aimes & Seibold and *Mr. Bertram Wm. Coltman* for Walker.

GRAHAM, *P. J.*:

The appellee, Walter D. Walker, filed his application in the United States Patent Office on February 18, 1927, for a patent on improvements in composite photography. The substance of the claimed invention was a method of obtaining an image upon one photographic film, then superimposing an image carried by another photographic film upon the first film, and then photographing the images thus placed in such a manner that a composite image resulted, which composite image appeared to the observer to be the result of one photographic operation. The process will be more fully described hereinafter.

In response to suggestions made by the Examiner, the specification and claims were variously amended on January 19, 1928, and on May 6, May 20, May 21, July 4, and July 8, 1929.

On February 7, 1927, the appellant filed his application for a patent covering the same subject matter, which went to patent on June 4, 1929. Thereupon the Examiner suggested to the appellee the addition of claim 1 of said Pomeroy patent for purposes of interference, and by amendment such claim was added to appellee's application. It constitutes the single count of the interference, and is as follows:

> The method of producing a composite photograph embodying two component parts, that includes making a transparent image of one component, making an image of the other component substantially uniformly opaque to light but reflective of light to show its image details superposing the two images and illuminating the first image by transmitted light and the second mentioned image by reflected light, and exposing a fresh actinic surface to the first image and the second image so illuminated and superposed.

Thereafter the appellee moved to add to the interference claims 2, 3, and 4 of the Pomeroy patent, and a claim numbered 5, which was not copied from said patent. The appellee Walker moved to dissolve the interference on the ground that an inoperative method was disclosed in the Pomeroy patent. The appellant Pomeroy moved to dissolve the interference on the ground that the appellee Walker had no right to make the claim of the interference. The Law Examiner denied Walker's motion to add counts 2, 3, 4, and 5, and his motion to dissolve the interference on the ground of inoperativeness. He also denied the motion by Pomeroy to dissolve the interference.

Both parties took testimony. The Examiner of Interferences awarded priority to Walker, the junior party and appellee. This decision was affirmed by the Board of Appeals. The principal point involved in the decision before the Board of Appeals was the contention made by the appellant Pomeroy that Walker had not made such a disclosure in his original application as would justify a claim such as constitutes the count of the interference. The three tribunals in the Patent Office concurred in their holdings that Walker could make the count upon the disclosure he had so made.

The appellant brings the matter here, and waives any question of priority as it appears upon the record, resting his appeal entirely upon the ground that the Board of Appeals erred in deciding that the appellee Walker could make the count of the issue. This, therefore, is the only question now before us and the case will be determined on that issue.

A brief description of Walker's method, as shown by his original disclosure, becomes necessary. The general purpose thereof is to produce a photographic image upon a film by ordinary photographic processes, which image usually consists of the scenery "against which the actors are arranged to perform." This film is transparent, and capable of transmitting light to illuminate the photographic images thereon. The image to be superimposed upon the background is also a photographic image carried upon another film. The images carried upon this superimposed film are made opaque to transmitted light by the application of—

> a coating of material 4 which is impervious to the passage of light, *on the rear surface of the foreground film 2, and particularly over the image or images thereon.* (Italics not quoted.)

One film is then superimposed upon the other, the foreground film being the one upon which the image has been thus rendered impervious to transmitted light. A composite picture is then made of the images upon these films so placed, by means of an ordinary camera. The illumination of the films for this purpose is made by the use of, preferably, two sources of light, as shown by Figure 5 of the drawings. These sources of illumination are placed, one back of the films and having the said films interposed between this light and the lens of the camera, and the other in front of the foreground film and upon the same side as the camera. An alternative method of illumination is provided which consists of one light in front of the foreground film, and a mirror so arranged back of the background film that light will be reflected against the rear of the background film.

In his specification, Walker makes the following disclosures as to his method of illumination:

> The method consists broadly in producing the background and foreground films as desired, and the superimposing of the latter upon the former in a manner permitting a positive or negative film to be produced from a single exposure; the image on the foreground film preferably having the rear surface thereof coated so as to render

the image impervious to the passage of light whereby, by the proper control of light, the relative illumination of the foreground upon the background may be controlled. By means of this arrangement, the proper brilliancy of both the background and foreground is obtained.

* * * * * * * * * However, I preferably provide two sources of light 7 and 8, which may be suitably controlled, and which will properly illuminate the background and foreground films and provide the necessary brilliancy of the image on the foreground.

The first claim of the applicant's original application is as follows:

1. The method of superimposing an image upon a background which comprises preparing the rear surface of the image to render it impervious to the passage of light, then placing the background and image together in proper relation and regulating the flow of light on both from different sources to obtain the proper illumination of each, and then photographing the same to provide a negative or positive of the picture thereby obtained.

The drawings accompanying Walker's application illustrate Walker's process. Figure 1 is a section of the background film, representing the image of a building located by the side of a body of water. Figure 2 is an image of a sail boat, upon the foreground film. This image is shown in black and white, the sails being white and the hull and spars in black. Figure 3 is an illustration, in silhouette, of the same boat, which represents the impervious coating which is applied to the back of the image on the foreground film. Figure 7 shows the finished composite film, showing the image of the boat superimposed upon the water appearing on the background film. It is to be noted that the image of this boat is shown to have white sails and black hull and spars. That portion of the building back of the boat is blocked out and not visible in the finished film.

The patent of Pomeroy shows a process whereby, by the use of various colored lights, films, and light filters, and by the use of two lights, the patentee is claimed to be enabled to illuminate his back image by transmitted light and his front image by reflected light, and to thus obtain a resultant image which is a true composite. It seems unnecessary to further allude to his particular process. It was claimed by Walker in the Patent Office to be inoperative, but that question is not presented here.

Pomeroy insists that Walker's original disclosure is deficient in many respects: First, that Walker discloses a black coating for the image upon the foreground film, and that such a coating will not reflect light. In support of this, he calls attention to the representation of the vessel in silhouette on Figure 3. Second, he alleges that the "front" of a film is the emulsion surface, and that as Walker has stated that he applies his coating to the back surface, the thickness of the film will intervene between the image and the coating, which will make the process imperfect, and, to a large degree, inoperative. Third, that Walker did not disclose a method of illuminating his front image by reflected light in his original application.

Pomeroy's counsel also argue that the count of the interference did not read upon Walker's original disclosure, and that, therefore, these amendments constituted new matter. Such new matter, it is argued, cannot aid the original disclosure of Walker, under the authorities, and that Walker's only remedy was to file a new application. *In re Scott*, 25 App. D. C. 307, 117 O. G. 278, and *Michigan Central Railroad Co.* v. *Consolidated Car Heating Co.*, 67 Fed. 121, are principally relied upon in support of this theory. It is also stated in argument that the Examiner, approximately 21 months after the filing of Walker's application, called Walker's attention to the fact that his disclosure—

is not sufficiently clear, and that the drawing is, in some respects, inaccurate. It is therefore suggested that applicant furnish, if possible, a set of films corresponding to Fig. 1, 2, 3, and 7 so that a clear understanding of applicant's method may be had.

All amendments to the application were made as suggested by the Examiner, and the claims were amended to show an illumination of the front image by reflected light, while Pomeroy's application was pending. This circumstance, it is thought by Pomeroy's counsel, proves most convincingly that the original disclosure was defective and that the amendments presented new matter. When Pomeroy's patent issued, the Examiner suggested to Walker that claim 1 of this patent was readable on Walker's disclosure, and suggested the addition of such claim for purposes of interference.

The appellant also argues that the various Patent Office tribunals have held that it was obvious, from Walker's original disclosure, that his foreground image must be so treated as to be reflective of light. If this be so, it is asked, why were amendments as to this feature required? It is further stated that this feature was held to distinguish Walker from the reference Sudmann, No. 1,198,600. The inference drawn by counsel is that this feature must, therefore, have constituted patentable subject matter, and, therefore, was new matter not originally disclosed.

We are unable to agree with counsel for appellant in any of these respects.

It will be apparent to anyone skilled in the art, from a consideration of Walker's original specification, drawings, and claims that he had the conception of a background film illuminated by transmitted light and a foreground film illuminated by reflected light. Otherwise, there is no apparent necessity for the dual light system employed, and the opaque coating for the image upon his foreground film. It is conceded that a black image upon the foreground film would not be reflective. Inasmuch, however, as the completed picture shown in Figure 7 shows the superimposed image distinctly and in its proper coloring, the coating upon its rear surface must have been reflective, or light colored. The Board of Appeals makes this comment, which, so far as we are advised, is correct:

* * * Patent Office drawings are made in black and white and the illustration of the coating in black is without significance. We believe those skilled in the art would readily appreciate that black coating material should not be used since the treated foreground image is to be reflected.

It is likewise apparent, from a reading of Walker's application, that when he speaks of the "rear surface" of the foreground film, he refers to that portion farthest from the camera, or the emulsion surface. Whatever the opinion of expert witnesses may be about what constitutes the rear surface of a film, this application, and all others, must be read in the light of its specification, drawings, and claims. When this is done, no doubt can be entertained as to the meaning of appellee's disclosure on this point.

It appears, from his letters, that when the Examiner required certain amendments to appellee's specification, and required appellee to furnish films showing his processes, he did so for clarification, and not upon the theory that the appellee had not disclosed the subject matter of the count now in issue. No reason appears why such amendments for clarification may not be properly suggested and made in the Patent Office, even while another application is therein pending, disclosing the same invention.

The rule announced in *In re Scott*, supra, by the Court of Appeals of the District of Columbia, is that amendments of applications and claims are freely allowed,

provided that they are disclosed and there is a proper basis for them in the original specification or drawings, yet no such amendment or addition shall be allowed when the proposed amendment or addition involves new matter not so disclosed in the original application.

Michigan Central R. R. Co. v. *Consolidated Car Heating Co.*, supra, announced the rule:

* * * No doubt, it is competent to amend the specifications while the application is pending, so long as it is done within the scope of the original application; but it is not competent, under color of this privilege, to introduce new matter. * * *

It will be seen from the opinion in *Railway Co.* v. *Sayles* that the objection to new matter brought in by amendment of the specifications stands upon the same ground as when it is introduced upon a reissue, and in respect to the latter the statute declares that it shall not be done. Revised Statutes 4916.

This, we have no doubt, is the applicable rule. It becomes, therefore, a question merely as to whether appellee had disclosed the subject matter of the count of the interference in his original application. Being of opinion that he did so disclose the same, the claim of new matter cannot be sustained.

Finally, as to the Sudmann patent, No. 1,198,600, it does not appear from the record that the matter added to Walker's application by amendments was used by the Patent Office to distinguish Sudmann from Walker. On that point, the Examiner stated, as shown by the communication of appellee's counsel with the office, the following:

At an oral interview cordially extended to applicant and his attorneys, the Examiner called attention to United States Letters Patent No. 1,198,600, granted to C. L. Sudmann on September 19, 1916, and pointed out that the image areas defined by the drawings on strip B were opaque. It was noted, however, that this patent failed to anticipate applicant's claims, because it does not contemplate nor disclose the use of a light reflective material, and further because the method disclosed by this patent relates solely to cartoon films and teaches only opaquing of the image area, either on the *front* surface or on the rear surface of strip B, thereby producing the image somewhat as a silhouette against the background in the composite picture. Applicant does not produce his images as a silhouette. His method is entirely different. Inasmuch as Sudmann fails to teach the use of preparing the image with a material which is reflective of light, it was the Examiner's opinion that Sudmann did not anticipate applicant's claims.

We are of opinion that there is no error in the decision of the Board of Appeals, and it is affirmed.

The party Pomeroy filed, by leave of court, a reply brief. Walker moves to strike the same from the files, as being in violation of said order, and asks leave to reply thereto if the same remains on file. The reply brief does not appear to be in conflict with the spirit of the court's order. Both motions are denied.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE GRAPP

No. 3,088. Decided April 24, 1933

1. PATENTABILITY—MATTRESSES.
   Claims for a mattress *Held* patentable over the prior art.
2. SAME—PROCESS OF MANUFACTURING MATTRESSES.
   Claims for a process of manufacturing mattresses *Held* unpatentable over the prior art since the successive steps included in the claims are in the nature of an aggregation of unrelated functions.

APPEAL from the Patent Office. Modified.

Mr. F. A. Whiteley and *Mr. John H. Ruckman* for Grapp.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office, affirming a decision of the Examiner, rejecting all of the claims of appellant's application, numbered 1 to 8, inclusive. Claims 1 and 2 are article claims; claims 3 to 8, inclusive, are process claims.

Claims 1 and 3 are illustrative of the claims in issue and read as follows:

1. A mattress and the like comprising a filling of fluffy material and a compressed insulating buffer completely surrounding said filling.

3. The process of manufacturing mattresses and the like which consists in subjecting a felt web to the action of heat, moisture and friction, placing the material thus produced around a filling of fluffy material to form a compressed insulated buffer therefor, and securing said buffer in place.

Appellant's application relates to mattresses and the like, and processes for manufacturing the same. The mattress comprises a filling of fluffy material and a compressed buffer completely surrounding said filling. Said buffer comprises top and bottom pieces, edge pieces, and side members; outside of the buffer is a casing.

The specification of appellant states:

* * * An object of my invention is to provide a reinforced construction of both sides of the mattress with insulated buffing material to take care not only of the added weight when a person is sitting on the side or edge of the mattress but also to prevent packing of the mattress as the result of the rubbing or frictional action in connection with the heat and moisture of the body previously referred to. In the construction of my improved mattress, I have developed a reinforced insulated buffer which prevents the friction or rubbing action from being transmitted to and the body heat or moisture from getting into the center or buoyant felt material of the mattress. This insulated buffer is of a semi-tough reinforced texture and acts as a binder, and furthermore, spreads the carrying power of the inner felt to three or more times what it is without the buffer. * * *

The references cited in the decision of the Board of Appeals are: Fleischmann, 5,275, September 4, 1847; Brooks, 364,797, June 14, 1887; Thompson, 970,971, September 20, 1910; Wadsworth, 1,460,519, July 3, 1923; and Byers et al., 1,596,715, August 17, 1926.

The first decision of the Board of Appeals herein was rendered on May 29, 1931, in which all of the claims were rejected except claim 2, which the Board held was allowable. On June 9, 1931, the Board modified this decision by affirming the rejection by the Examiner of said claim 2.

The Board held, as to claims 1 and 2, that they were fully anticipated by the patent to Brooks, and as to claims 3 to 8, inclusive, it held, as did the Examiner, that they were unpatentable as being aggregative.

We will first consider the rejection of claims 1 and 2. The patent to Brooks discloses a mattress comprising the usual body material and a covering layer consisting of nonheat conducting material, applied either to the top or bottom or both faces of the mattress, which cover is of relatively stiff material, formed of united layers of thick paper, linen backing therefor, and felt or rubber. This composite sheet, previously formed, is cut to a size to accurately fit the top or bottom of the mattress and is attached thereto by overlying bands or by small tabs and buttons on the edges of the cover and sides of the mattress respectively.

The Board in its decision said:

> It is our opinion that Brooks fully anticipates the terms of claim 1 so far as the essential features are concerned. The covering material is clearly, "a compressed insulating buffer." All of the constituents thereof, the paper, the linen and the felt are composed to a degree equal to that of applicant's buffer sheet and would be clearly as proof against circulation of air and moisture. Brooks stated that it is nonheat conducting. We regard it merely as a matter of choice whether the buffer layer is extended to also cover the side edges and ends of the mattress as well as the top and bottom. The matter of distributing the load is purely a mechanical one and applies to any layer which would be stiffer than the body of the mattress. No showing appears of record why this would not be true of the covering layer or buffer shown by Brooks even though he does not name this function as such.

In his specification Brooks states:

> It is found advantageous in many instances to construct mattresses very thin, as a matter of economy of space and material. When thus constructed, it is found that the cold readily penetrates the mattress, more especially when used in connection with metallic springs or bed-frames, greatly to the injury and discomfort of the sleeper.
>
> I aim by my invention to provide a means whereby a thin mattress may be used with comfort and safety, and the cold from drafts or other causes be prevented from penetrating the same. • • •

As hereinbefore indicated, the buffer material shown by Brooks does not completely surround the filling material of the mattress, but the edges of the same are left exposed, while appellant's claims 1 and 2 provide that the buffer material shall completely surround the filling material. We do not think the Board of Appeals gave due consideration to the new and useful result secured by having the buffer completely surrounding the filling material. This element, appellant states in his specification, assists in retaining the original shape of the mattress when a person is sitting upon the edge of the bed; because of the insulating qualities of the buffer, heat and moisture cannot penetrate to the inner part of the buffer and filling of the mattress, thus permitting the mattress to be cleaned and washed without deterioration of the inner part thereof.

[1] These facts indicate that appellant's article, as claimed, is new and useful, and we do not think that the references either anticipate appellant's invention or that modifications of the structures shown in the references to produce appellant's structure would be obvious to one skilled in the art. We are therefore of the opinion that the Board of Appeals erred in finding that claims 1 and 2 are not patentable.

[2] With respect to claims 3 to 8, inclusive, as hereinbefore noted, they were held unpatentable by both tribunals of the Patent Office as being aggregative. In its decision the Board said:

> Claims 3 to 8, inclusive, are in the form of method claims including the steps of forming the compressed buffer material and then associating it with the body of the mattress. The Examiner rejects these claims as being for aggregation. It appears that the step of forming this buffer sheet is not in any way depending on afterwards using it as a component part of a mattress. This so-called buffer material might be useful in many relations where a relatively strong stiff felt-like material is necessary such as an insulating layer in building construction or for carpet padding. The broad step of laying it up with the body of the mattress is likewise not dependent on how the buffer sheet is formed. Other buffer sheet material might be used in the same way in the alleged process without in any way affecting the order of the steps or results considered as a method. We consider this ground of rejection warranted.

We are in accord with the views of the Board above quoted. It may be that the process of making the buffer material employed by appellant is new and inventive, but it is here claimed only as an element in a process of manufacturing mattresses and the like. As stated by the Board,

> The broad step of laying it [the buffer material] up with the body of the mattress is likewise not dependent on how the buffer sheet is formed.

We think that the case of *In re Harris*, 37 App. D. C. 374, 170 O. G. 484, is in point upon this question. In that case there was involved process claims for a series of steps relating to preparing, storing and dispensing a beverage. The court in affirming a rejection of said claims quoted with approval the following language of the Commissioner of Patents:

> There is believed to be no essential relation between the three steps of preparing, storing, and dispensing the beverage, which applicant successively employs. Each step appears to be complete in itself and independent of the other. The claims covering these successive steps are in the nature of an aggregation of unrelated functions performed by appellant's apparatus.

In view of the fact that appellant in his specification states that the buffer material produced by him as set out in his process claims may be used for many purposes other than its use in the making of mattresses, there is believed to be no essential relation between the step of producing the material recited in the said claims and the use of said material in a mattress or like article, and therefore the claims covering these successive steps are in the nature of an aggregation of unrelated functions.

We find no error in the decision of the Board in finding claims 3 to 8, inclusive, unpatentable.

For the reasons given, the decision of the Board of Appeals is affirmed as to claims 3 to 8, inclusive, and reversed as to claims 1 and 2.

Modified.

U. S. Court of Customs and Patent Appeals

IN RE STOVALL

No. 3,111. Decided April 17, 1933

PATENTABILITY—METHOD OF EXTRACTING OIL FROM OIL SANDS.

Claims for a method of extracting oil from oil sands *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Munn, Anderson, Stanley, Foster & Liddy and *Mr. Harry E. Seidel* for Stovall.

Mr. T. A. Hostetler for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office, affirming a decision of the Examiner, rejecting for lack of invention over the prior art claims 6 and 8 to 12, inclusive, of appellant's application.

Claim 6 is illustrative of the claims in issue and reads as follows:

> 6. The herein described method of extracting oil from oil sands, consisting in generating steam to a desired pressure, superheating said steam to a desired temperature, conducting said steam through a steam pipe passing through an oil well casing of an existing oil well, to an area within said oil sands, heating the oil sands by the steam to a temperature at which gas is formed thereby creating a suitable conveyer for forcing the flow of oil contained in the oil sands adjacent to said heated area, away from said heated area and removing said flowing oil through wells in said adjacent area.

The references relied on are: West, 193,838, August 7, 1877; Lee, 1,439,560, December 19, 1922; Hixon, 1,491,138, April 22, 1924; and Larsen, 1,565,574, December 15, 1925.

As indicated by the above quoted claim, appellant's claimed invention relates to the method of extracting oils from wells by forcing superheated steam into one well of a group and thereby causing the oil to flow to adjacent wells.

The patent to West discloses the use of superheated steam in an oil well for the purpose of cleaning it. He points out that water, resulting from live steam becoming condensed in passing through the pipes, is objectionable and will close the pores in the rocks and prevent the passing of the oil.

The patent to Hixon suggests the same method as that employed by appellant, except that Hixon teaches the use of ordinary steam with superheated water.

The Board of Appeals held that with the teachings of West a suggestion would be received that superheated steam would be preferable to the steam and water in the Hixon method, and that therefore there would be no invention in substituting superheated steam, as taught by West, for the steam and superheated water in the method taught by Hixon.

Appellant argues in his brief that, if West's teachings would have suggested to Hixon the use of superheated steam, instead of steam and water, Hixon would have employed it, and that the fact that he did not is persuasive that there was invention in appellant's method.

This contention is predicated, of course, upon the assumption that Hixon actually had before him the disclosure of West. In the absence of a showing that Hixon actually knew of West, no inference can be drawn from a failure upon the part of Hixon to vary his method to embody the teachings of West when, as far as we know, he may actually have known nothing of West.

Furthermore, the principle is well established, as stated in the brief of the Solicitor for the Patent Office, that—

> If the skilled worker in the art, actually having before him the disclosures of Hixon and West, would be taught therefrom, or find obvious therefrom, the process of the appealed claims, such process is unpatentable to appellant even though he actually knew of neither of the patents to Hixon or to West. *Derby* v. *Thompson*, 146 U. S. 476, 61 O. G. 1950; *Millett et al.* v. *Allen, Commissioner of Patents*, 27 App. D. C. 70, 124 O. G. 1524, 1906 C. D. 752.

In the case of *Derby* v. *Thompson*, supra, there was involved the question of invention in a combined child's chair and carriage in view of three prior patents for chairs. The court held that in view of these prior patents there was no invention in the chair there involved. The court in its opinion said:

> • • • Though he [the alleged inventor] may not in fact have known of these three chairs, but may have supposed that he was inventing something valuable, we are bound, in passing upon his device, to assume that he had them all before him, and with that knowledge it seems to us that it required nothing more than the skill of an ordinary mechanic to adopt the most valuable features of each in the construction of a new chair. • • •

We are satisfied that, in view of the references, one skilled in the art could, without the exercise of the inventive faculty, adopt appellant's method set out in the claims here involved, and therefore the decision of the Board of Appeals should be, and hereby is, affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,089,405, W. S. Ferguson, Reinforced concrete dock or pier, D. C., S. D. Tex. (Houston), Doc. E 448, *The Dock & Terminal Engineering Co. et al.* v. *Houston Harris County Ship Channel Navigation District.* "Agreed judgment entered May 31, 1933". Doc. E 451, *The Dock & Terminal Engineering Co. et al.* v. *Manchester Terminal Co.* Decree as above.

1,213,695, J. B. Scutti, Cloth covered buckle, D. C., S. D. N. Y., Doc. E 74/450, *Liberty Die & Button Mould Co., Inc.*, v. *I. Elkins et al.* (*Elco Metal Products*). Decree pro confesso sustaining patent (notice June 7, 1933).

1,238,823, P. Roeder, Protective burglary alarm for buildings, etc., filed June 6, 1933, D. C., E. D. N. Y., Doc. E 6975, *National Wiring & Protective Co., Inc.*, v. *Ace Burglar Alarm Co.*

1,283,109, A. Doble, System of automatic regulation for steam driven automobiles; 1,334,560, 1,441,888, L. L. Scott, Combustion system; 1,640,729, Re. 17,405, same, Oil burning system; 1,379,008, A. B. Frenier, Temperature producing mechanism and controlling means therefor; 1,579,497, L. I. Aldrich, Safety control mechanism for electrically controlled fuel burning device; 1,583,564, same, Liquid fuel atomizer; 1,644,496, same, Oil burner, D. C., N. D. Ohio, E. Div., Doc. E 4220, *The Cleveland Trust Co.* v. *H. B. Gove.* Dismissed without prejudice May 31, 1933. Doc. E 4257, *The Cleveland Trust Co.* v. *Stow Lumber & Coal Co.* Decree as above.

1,307,284, S. J. Wentworth, Heel seat forming machine, D. C., S. D. Ohio, W. Div., Doc. E 703, *United Shoe Machinery Corp.* v. *The L. G. Freeman Co.* Claims 4, 5, 62, and 63 held not infringed; dismissed (notice June 6, 1933).

1,334,560. (See 1,283,109.)

1,363,727, V. Guinzburg, Garment shield, filed June 7, 1933, D. C., E. D. N. Y., Doc. E 6977, *I. B. Kleinert Rubber Co.* v. *Rand Rubber Co., Inc.*

1,379,008. (See 1,283,109.)

1,395,362, 1,576,225, 1,576,226, C. F. Rubsam, Vehicle wheel, C. C. A. 6th Cir., Doc. 6137, *General Motors Corp. et al.* v. *Rubsam Corp. et al.* Held invalid May 19, 1933.

1,441,888. (See 1,283,109.)

1,471,057, G. E. Phillips, Manufacture of flexible metallic tubing armored cable, filed June 6, 1933, D. C., E. D. N. Y., Doc. E 6976, *National Electric Products Corp.* v. *Arrow Conduit & Fittings Corp.*

1,482,151, H. Rosenberg, Metallic fastener; 1,809,758, same, Fastener, filed June 9, 1933, D. C., E. D. N. Y., Doc. E 6985, *H. Rosenberg et al.* v. *J. Hassall, Inc.*

1,576,225. (See 1,395,362.) 1,576,226. (See 1,395,362.)

1,579,497. (See 1,283,109.) 1,583,564. (See 1,283,109.)

1,584,149, G. Shimadzu, Method of manufacturing metal powder; 1,584,150, same, Process of manufacturing powder of lead suboxide intermingled with powder of metallic lead; 1,584,151, same, Process of manufacturing lead oxide; 1,584,152, same, Paint; 1,584,479, same, Process of making plates for storage battery using lead suboxide; 1,896,020, same, Apparatus for the continuous production of lead oxides in the dry state, filed June 1, 1933, D. C., E. D. Pa., Doc. 7727, *G. Shimadzu et al.* v. *The Electrical Storage Battery Co.*

1,584,150. (See 1,584,149.) 1,584,151. (See 1,584,149.)

1,584,152. (See 1,584,149.) 1,584,479. (See 1,584,149.)

1,640,729. (See 1,283,109.)

1,643,159, S. Greenberg, Child's overcoat, filed June 2, 1933, D. C., S. D. N. Y., Doc. E 76/100, *L. Greenberg & Bro., Inc.*, v. *La Salle Girls Coat Corp.*

1,658,323, L. Blackmore, Refrigerator control, D. C., S. D. Iowa (Des Moines), Doc. E 4497, *Frigidaire Corp.* v. *W. G. MacGregor et al.* Dismissed May 27, 1933.

1,710,073, 1,714,191, S. Ruben, Electrical condenser; 1,891,207, same, Electrolytic condenser, D. C., S. D. N. Y., Doc. E 76/51, *Ruben Condenser Co. et al.* v. *Alan Radio Corp.* Consent decree for plaintiff (notice May 5, 1933).

1,710,504, 1,710,507, C. E. North, Process of making mixtures of cocoa or chocolate and milk and product thereof, D. C., S. D. N. Y., Doc. E 59/394, *W. V. Kelley et al.* v. *Heyman Process Corp.* Dismissed (notice June 2, 1933).

1,710,507. (See 1,710,504.) 1,714,191. (See 1,710,073.)

1,720,301, E. F. Suter, Hair drying; 1,775,704, same, Hair drier, D. C., N. D. Ohio, E. Div., Doc. 4083, *Eugené, Ltd.* v. *The Martin Bros. Electric Co.* Dismissed June 7, 1933.

1,756,829, Kaplan & Rosenberg, Coat lining, filed June 6, 1933, D. C., S. D. N. Y., Doc. E 76/112, *B. Kaplan et al.* v. *Trenoher-Epstein Corp. et al.*

1,775,704. (See 1,720,301.) 1,809,758. (See 1,482,151.)

1,866,988, A. T. Light, Refrigeration, filed June 8, 1933, D. C., N. D. Ohio, E. Div., Doc. 4688, *York Ice Machinery Corp.* v. *The H. H. Miller Industries Co.*

1,867,116, Thornhill & Rohr, Cover for handbags, D. C., S. D. N. Y., Doc. E 76/85, *The Virginia Art Goods Studios, Inc.*, v. *Goldberg & Seltzer, Inc.* Consent decree for plaintiff (notice June 12, 1933).

1,868,458, L. Blumenstock, Shirt envelope, filed June 7, 1933, D. C., E. D. N. Y., Doc. E 6979, *Spear Box Co., Inc.*, v. *Westcott Products Corp.* Same, D. C., S. D. N. Y., Doc. E 76/114, *Spear Box Co., Inc.*, v. *Whitman Supply Co., Inc.*

1,875,259, G. D. Parker, Apparatus for wire binding box; 1,875,260, same, Bundle binding and tying machine, D. C., N. D. Calif. (Sacramento), Doc. 1149-L, *C. B. Parker et al.* v. *Stockton Box Co.* Dismissed without prejudice June 2, 1933. Same, filed June 1, 1933, D. C., N. D. Calif. (San Francisco), Doc. E 3586-K, *C. B. Parker et al.* v. *Pacific Box Corp., Ltd.*

1,875,260. (See 1,875,259.)

1,876,477, H. P. Troendly, Fastener, filed June 6, 1933, D. C. Conn. (New Haven), Doc. E 2300, *Parva Products Co.* v. *The Autoyre Co., Inc.*

1,891,207. (See 1,710,073.) 1,896,020. (See 1,584,149.)

1,902,957, M. J. Hinlein, Veil, filed June 2, 1933, D. C., S. D. N. Y., Doc. E 76/101, *J. H. Hinlein & Sons* v. *F. W. Woolworth Co.*

Re. 15,529, Dick & Wolters, Heat resisting cabinet and method of making same, C. C. A., 6th Cir., Doc. 6220, *Remington-Rand, Inc.*, v. *Show-Walker Co.* Held not infringed June 6, 1933.

Re. 17,405. (See 1,283,109.)

Re. 17,486, G. R. Luginbuhl, Railway guides, D. C., S. D. N. Y., Doc. E 55/237, *G. R. Luginbuhl et al.* v. *Walworth Co. et al.* Dismissed (notice June 7, 1933).

Des. 77,250, W. Melville, Store front, filed June 5, 1933, D. C. Md., Doc. E 2181, *Melville Shoe Corp.* v. *S. J. Barranco* (*The Marvel Shoe Shop*).

Des. 83,403, H. N. Kirschner, Cap, D. C., S. D. N. Y., Doc. E 61/27, *New York Advertising Cap Co., Inc.*, v. *Advertising Cap Co., Inc.* Dismissed (notice June 8, 1933).

Des. 86,113, Des. 86,114, F. P. Dwyer, Athletic trousers, filed May 29, 1933, D. C., E. D. Pa., Doc. 7723, *J. L. Greenbaum et al.* v. *S. Coane.*

Des. 86,114. (See Des. 86,113.)

International Convention—Adhesion Liechtenstein

This Office has been notified by the Secretary of State of the receipt of a notice from the Swiss Legation that the Government of the Principality of Liechtenstein has adhered to the Convention of the Union for the Protection of Industrial Property as revised at The Hague, November 6, 1925, to take effect July 14, 1933.

CONWAY P. COE,
Commissioner of Patents.

Disclaimers

1,455,141.—*Percival D. Lowell* and *Francis W. Dunmore*, Washington, D. C. RADIO RECEIVING APPARATUS. Patent dated May 15, 1923. Disclaimer filed July 8, 1933, by the patentees, and the exclusive licensee, *Dubilier Condenser Corporation.*

Therefore enter their disclaimer as follows:

(1) To any "source of alternating current for supplying power to said amplifying means" as set forth in claim 1 except such as supplies raw alternating current to the cathode heating circuit or circuits of such amplifying means and rectified current to the plate circuit or circuits of such amplifying means; to any "plurality of means in circuit with said amplifying means for eliminating the hum of said alternating current in said apparatus" except such means as comprises: (*a*) a connection from the grid of the amplifying means to the cathode thereof at a point not subjected to the influence of variations of the cathode heating current; (*b*) elements connected between the stages of said amplifying means which prevent the passage of power supply frequencies; and (*c*) a resistor shunted by a condenser interposed in the circuit between the grid and cathode of the amplifying means where said condenser forms a low impedance path for both signal and power supply frequencies and wherein the voltage drop across said resistor provides a negative bias for the grid of the amplifying means.

(2) To any "source of alternating current for supplying power to said amplifying means" as set forth in claim 2 except such as supplies raw alternating current to the cathode heating circuit or circuits and rectified current to the plate circuit or circuits; to any "means connected to said amplifying and rectifying means for eliminating the hum of said alternating current in said apparatus" except as comprises: (*a*) a connection from the grid of the amplifying means to the cathode thereof at a point not subjected to the influence of variations of cathode heating current; (*b*) elements connected between the stages of said amplifying means and between said amplifying and rectifying means which prevent the passage of power supply frequencies; and (*c*) a resistor shunted by a condenser interposed between the grid and the cathode of the amplifying means, where said condenser forms a low impedance path for both signal and power supply frequencies and wherein the voltage drop across said resistor provides a negative bias for the grid of the amplifying means.

(3) To any "source of alternating current for supplying power to said amplifying means" as set forth in claim 3 except such as supplies raw alternating current to the cathode heating circuit or circuits and rectified current to the plate circuit or circuits of such amplifying means; to any "separate means connected to each of said amplifying and rectifying means for eliminating the hum of said alternating current" except as comprises: (*a*) connecting the grid of the amplifying means to the cathode thereof at a point not subjected to the influence of variations of the cathode heating current; and (*b*) elements connected between the "means for amplifying said signal energy at radio frequencies" and the "means for rectifying said energy" which prevent the passage of power supply frequencies.

(4) To any "source of alternating current for supplying power to said amplifying means" as set forth in claim 4 except such as supplies raw alternating current to the cathode heating circuit or circuits of such amplifying means and rectified current to the plate circuit or circuits of such amplifying means; to any "means connected to each of said amplifying, rectifying and reproducing means for eliminating the hum of the alternating current" except such as comprises: (*a*) connecting the grid of the amplifying means to the cathode thereof at a point not subjected to the influence of variations of the cathode heating current, and (*b*) elements connected between stages of the amplifying means and between the amplifying means and the rectifying means which prevent the passage of power supply frequencies.

(7) To any "means in different parts of said circuits for eliminating the hum of the alternating current" as set forth in claim 7 except such as comprises: (*a*) connecting the grids of said amplifying means to the cathodes thereof at a point not subjected to the influence of variations of the cathode heating current; (*b*) elements interconnecting the stages of the "means for amplifying said energy at radio frequencies" and elements interconnecting the "means for amplifying said energy at radio frequencies" with the "means for rectifying said energy" which prevent the passage of alternating current hum; and (*c*) such means as a resistor shunted by a condenser connected in a circuit between the grid and cathode of the "means for amplifying said energy at radio frequencies" where the said condenser forms a low impedance path for both signal and power supply frequencies.

(13) To any "means for supplying the rectified energy to circuits of said vacuum tube amplifiers" as set forth in claim 13, except such as supplies such rectified energy to the plate circuits of said vacuum tube amplifiers and also supplies raw alternating current to the cathode heating circuit or circuits of said amplifiers; to any "means connected in each of the circuits of said amplifiers, detector and reproducer for eliminating the hum of said alternating current" except such as comprises: (*a*) connecting the grids of the amplifiers to the cathodes thereof at a point not subjected to the influence of variations of the cathode heating current; (*b*) elements interconnecting the stages of said radio frequency vacuum tube amplifier and interconnecting the output of said radio frequency vacuum tube amplifier with the detector which prevent the passage of power supply frequencies; and (*c*) a resistor shunted by a condenser and connected in the circuit between the grid and cathode of each of said amplifiers, where the said condenser forms a low impedance path for both signal and power supply frequencies.

(14) To any "means in each of said circuits for eliminating the hum" as set forth in claim 14, except as comprises: (*a*) connecting the grids of vacuum tubes to the cathodes thereof at a point not subjected to the influence of variations of the cathode heating current, and (*b*) interconnecting the plurality of vacuum tubes which amplify the signal energy at radio frequencies through elements which prevent the passage of power supply frequencies.

(15) To any "vacuum tubes" as set forth in claim 15 except vacuum tubes which have the grid electrodes thereof connected with the cathodes thereof at a point not subjected to the influence of variations of the cathode heating current; and to any "circuits interconnecting said electrodes and said detector" as specified in said claim except such circuits as include an inductively coupled radio frequency transformer.

(16) To any "source of alternating current for supplying power to said amplifying means" as set forth in claim 16 except such as supplies raw alternating current to the cathode heating circuit or circuits and rectified current to the plate circuit or circuits; to any "means connected in circuit with said rectifying means for smoothing out the rectified current and supplying power to said amplifying means" except such as also prevents distortion of the signal current.

(18) To any "source of alternating current for supplying power to said circuits" as set forth in claim 18 except such as supplies raw alternating current to the cathode heating circuit and rectified current to the plate circuit or circuits of the vacuum tubes; to any "means connected in circuit with said grid and plate electrodes for eliminating the hum" except such as comprises: (*a*) connecting the grids of the vacuum tubes to the cathode thereof at a point not subjected to the influence of variations of the cathode heating current, and (*b*) interposing filter elements in the plate circuit to reduce fluctuation in power supply frequencies; and to any "circuits interconnecting said electrodes" except as include a radio frequency transformer.

(19) To any "source of alternating current" as set forth in claim 19 except as supplies raw alternating current to the cathode heating circuit or circuits of said vacuum tubes; and to any "circuits interconnecting said electrodes" except as include elements which prevent the passage of power supply frequencies.

(20) To any "source of alternating current for supplying power to said amplifying means" as set forth in claim 20 except as supplies raw alternating current to the cathode heating circuit or circuits of said amplifying means and rectified current to the plate circuit or circuits of said amplifying means.

(21) To any "source of alternating current for supplying power to said tubes" as set forth in claim 21 except such as supplies raw alternating current to the cathode heating circuit or circuits and rectified current to the plate circuit or circuits of said tubes.

1,635,117.—*Francis W. Dunmore*, Washington, D. C. SIGNAL-RECEIVING SYSTEM. Patent dated July 5, 1927. Disclaimer filed July 8, 1933, by the patentee and the exclusive licensee, *Dubilier Condenser Corporation.*

Hereby enter their disclaimer to:

(1) Any "source of alternating current power supply" in claim 1 except such as delivers rectified alternating current to said grid electrodes and raw alternating current to said filament electrodes; to any "means associated with said alternating current power supply for impressing a negative potential on said grid electrodes" in said claim 1, except such means as comprise a resistance in series with said grid electrodes shunted by a condenser; to any "means for energizing said filaments" as specified in claims 2, 3, 4, 5, and 6, except such means as supply raw alternating current to said filaments; and to any

"rectifier adapted to supply a negative potential to said grid electrodes" as specified in claims 2, 4, 5, and 6 except such as supply such negative grid biasing potential by means of a bias determining resistance in series with the grid electrodes and connected to the respective cathodes of the amplifying tubes and shunted by a condenser of low impedance to power supply frequencies.

(2) Any "filament electrodes" specified in claim 9 except such as are energized by raw alternating current; and any "means for supplying a negative potential to the grid electrode of said electron tube from said source of alternating current" as specified in claim 9 except such means as comprise a bias determining resistance connected in a series path between the grid and filament electrodes and shunted by a condenser of low impedance to power supply frequencies.

(3) Any "source of power adapted to be energized by alternating current or the like" as specified in claim 11, except such as supplies raw alternating current to the cathode heating circuits of such tubes and rectified current to the grid circuits of such tubes; and to any "output terminals connected at opposite terminals of said resistance" as specified in said claim, except such as are also connected to the grid and cathode of the vacuum tube.

(4) Any "method of energizing thermionic vacuum tubes or the like from a source of alternating current" as specified in claim 12, except such as supplies raw alternating current to the cathode heating circuit of such tubes and rectified current to the grid circuit of such tubes; and to "impressing the desired portion of such voltage drop upon said thermionic tube" except to impressing the desired portion of the voltage drop upon the grid-cathode circuit of said thermionic tube.

1,703,907.—*Thomas H. Thomas*, Edgewood, Pa. TRAIN-CONTROL DEVICE. Patent dated March 5, 1929. Disclaimer filed July 8, 1933, by the assignee, *The Westinghouse Air Brake Company*, the executrix of said Thomas H. Thomas, deceased, Mabel M. Thomas, concurring and assenting.

Hereby enters this disclaimer to that claim which is in the following words:

"8. In a train control apparatus, the combination with a valve device operated upon a reduction in fluid pressure for effecting an application of the brakes and electrically controlled means adapted upon deenergization to vent fluid pressure from said valve device, of means operated by the venting of fluid pressure from said valve device for opening a circuit through which said electrically controlled means may be maintained energized."

1,765,509.—*Thomas H. Thomas*, Edgewood, Pa. AUTOMATIC TRAIN-CONTROL EQUIPMENT. Patent dated June 24, 1930. Disclaimer filed July 8, 1933, by the assignee, *The Westinghouse Air Brake Company*, the executrix of said Thomas H. Thomas, deceased, Mabel M. Thomas, concurring and assenting.

Hereby enters this disclaimer to that claim which is in the following words:

"27. In a train control apparatus, the combination with a magnet valve device operative to cause an automatic application of the brakes, of electro-pneumatic means operative to control the operation of said magnet valve device for governing the release of the brakes, and means cooperating with said electro-pneumatic means and adapted to time operation of said electro-pneumatic means."

1,794,453.—*George D. Graves*, Wilmington, Del. REDUCTION OF FURFURAL TO TETRAHYDROFURFURYL ALCOHOL. Patent dated March 3, 1931. Disclaimer filed July 1, 1933, by the assignee, *E. I. du Pont de Nemours & Company*.

Hereby enters this disclaimer to that part of said specification and claims which is in the following words, to wit:

"1. The method of producing tetrahydrofurfuryl alcohol which comprises heating furfural under pressure in the presence of hydrogen, a nickel catalyst and water.

"2. The method of claim 1 in which the heat is carried out at a temperature of above 50° C.

"3. The method of producing tetrahydrofurfuryl alcohol which comprises heating furfural at a temperature between 50° and 150° C. under pressure in the presence of hydrogen, a nickel catalyst and water.

"4. The method of claim 3 in which the reaction is carried out at pressures of at least 100 pounds per square inch."

"9. The liquid phase method of producing tetrahydrofurfuryl alcohol which comprises heating furfural under pressure in the presence of hydrogen, a nickel catalyst and water."

CARNEGIE LIBRARY OF ATLANTA

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 1, 1933

[VOL. 433. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 336,414. ERNST ZOBEL COMPANY, Brooklyn, N. Y. Filed Apr. 4, 1933.



No claim is made to the words "Ernst Zobel Company" "Special Brewers Pitch" "Brooklyn, N. Y. U. S. A.", apart from the mark shown in the drawing.

For Barrel Lining (Pitch).

Claims use since 1908.

Ser. No. 337,093. O. M. SCOTT & SONS COMPANY, Marysville, Ohio. Filed Apr. 22, 1933.

VELVATURF

For Lawn Grass Seed.

Claims use since Mar. 8, 1933.

CLASS 2

Receptacles

Ser. No. 322,206. BAGPAK, INC., New York, N. Y. Filed Dec. 17, 1931.

BAGPAK

For Paper Bags.

Claims use since Nov. 24, 1931.

Ser. No. 335,697. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Mar. 15, 1933.



For White Oak Kegs, Clothes Baskets, Fiber Boxes, Nickel Vanity Cases, Oil Cans, Enamel Metal Paper Towel Cabinets, Vacuum Bottles, Garbage Cans, White Oak Barrels, Paper Egg Cartons, Small Tanks of Steel for Stock Feeding, Tool Boxes.

Claims use since Nov. 25, 1932.

Ser. No. 338,129. THE HINDE & DAUCH PAPER COMPANY, Sandusky, Ohio. Filed May 20, 1933.

PAKAWAY

For Fibre Household Storage Chest.

Claims use since Nov. 28, 1932.

Ser. No. 338,658. MORRIS LAZOW, Brooklyn, N. Y. Filed June 8, 1933.



The portrait appearing on the drawing is fanciful. The representation of a cup blank is disclaimed apart from the mark as shown. The word "Cup" is disclaimed apart from the other features of the mark.

For Ice Cream Cups, Candy Cups, Drinking Cups, Shaving Cups, and Other Cups for Receiving Articles of Food and Other Merchandise, Said Cups and Containers Being Made of Paper, Paperboard, Pasteboard, and Cardboard.

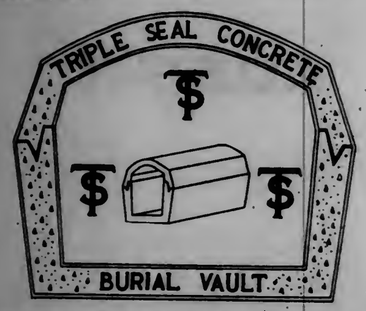
Claims use since Dec. 16, 1932.

Ser. No. 338,669. STRONG BAG COMPANY, INCORPORATED, Richmond, Va. Filed June 8, 1933.



The drawing is lined to indicate shading.
For Paper Bags Used for Packing Grain Products.
Claims use since July 1, 1931.

Ser. No. 338,784. PETER LIPKA, Coatesville, Pa. Filed June 12, 1933.



The words "Concrete Burial Vault" and the representation of the goods are disclaimed apart from the other features of the mark shown in the drawing.
For Concrete Burial Vaults.
Claims use since Nov. 1, 1932.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 337,930. PINAUD, INCORPORATED, New York, N. Y. Filed May 17, 1933.



The representation of the French barber is a fanciful creation.
For Toilet Soap, Shaving Soap Sticks, Shaving Soap Cream.
Claims use since Apr. 19, 1933.

Ser. No. 338,663. PARFUMERIE ROGER & GALLET, SOCIETE ANONYME, doing business as Roger & Gallet, Paris, France. Filed June 8, 1933.

ARANGEA

For Toilet Soaps.
Claims use since Dec. 13, 1932.

CLASS 5

Adhesives

Ser. No. 333,970. CLINTON J. HERRON, doing business as Calumet Novelty Works, Royal Oak, Mich. Filed Jan. 16, 1933.



Applicant makes no claim to the exclusive use of the word "Holds-Um" apart from the mark shown in the drawing.
For Adhesive Cement.
Claims use since July 1, 1932.

Ser. No. 337,858. FRANK MILLER, doing business as F. Miller Company, Sturtevant, Wis. Filed May 15, 1933.



For Adhesive Cement in Liquid or Paste Form.
Claims use since Mar. 15, 1932.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 322,842. ACE MANUFACTURING COMPANY, Chicago, Ill. Filed Jan. 9, 1932.

ACE

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches; Skin Whitener in Liquid, Cream, and Solid Form; Face Packs, Eyebrow and Eyelash Growers, Eye Drops, Eyebrow Pencils, Chemical Preparations Suitable for the Darkening of Eyebrows and Eyelashes, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Creams, Nail Bleaches, Nail Powders, Nail Polishes, Witch Hazel, Peroxide, Petroleum Jellies, Witch Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Jan. 16, 1931.

Ser. No. 328,986. LIBBY BURSTYN, Los Angeles, Calif. Filed Feb. 9, 1932.

LU BOV

For Cosmetics—Namely, Skin Oil.
Claims use since Oct. 1, 1931.

Ser. No. 327,304. MAX J. BROWN, doing business as Anti-Vermin Crusaders, Cincinnati, Ohio. Filed May 21, 1932.



For Insecticide.
Claims use since May 1, 1929.

Ser. No. 327,374. STA-RITE HAIR PIN COMPANY, Shelbyville, Ill. Filed May 23, 1932.

STA-RITE

The applicant is the owner of Trade-Mark registration No. 15,822 for the word "Sta-Rite".
For Lotion in Concentrated Form for Use in Setting Waves in Human Hair.
Claims use since Mar. 24, 1932.

Ser. No. 327,408. PARFUMERIE ST. DENIS, New York, N. Y. Filed May 24, 1932.

BRONZTAN

For Beauty Creams, Cold Creams, Cleansing Creams, Refreshing Creams, Dry Rouges, Liquid Rouges, Face Packs, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Lip Sticks, Nail Powders and Nail Creams, and Oils Suitable for the Prevention of Sunburn.
Claims use since Mar. 15, 1932.

Ser. No. 328,196. ZELLSTOFFFABRIK WALDHOF, Mannheim-Waldhof, Germany. Filed June 21, 1932.



For Non-Metallic Chemical Preparations in Liquid or Solid Form for Use in Hardening and Soldering Metals; Chemical Preparations in Liquid, Paste, or Solid Form for Use in Tanning Leather.
Claims use since Dec. 8, 1916.

Ser. No. 330,176. CHEM. PHARM. LABORATORIUM "BIKA" V. PÖHLMANN UND APOTHEKER R. NAGEL, Stuttgart, Germany. Filed Sept. 8, 1932.

Original-Bika

For Medicines and Dietary and Nutritive Preparations Containing a Salt of an Alkali Forming Metal or an Alkaline Earth Metal or Magnesium or Iron; Fresh Plant Juices; Hormone Preparations Such Medicines and Preparations Being Destined For Use in the Case of Signs of Calcification, for Osteomalacia, for Fever Symptoms, Inflammations, Gout and Rheumatism, Bile and Liver Complaints and Suppuration; Nervine Preparations, Antispasmodics, Stomachics, Hæmostatics, and Preparations for Improving Blood Composition and Metabolism.
Claims use since 1920.

Ser. No. 330,812. DIXON & WAGNER, New Orleans, La. Filed Sept. 30, 1932.

FIVE GRIPS

For Medicinal Preparation Recommended for the Relief of Lung Trouble, Asthma, Kidney Troubles, and Heavy Colds.
Claims use since Feb. 10, 1932.

Ser. No. 331,745. GEORGE KASSOULAS, Williamson, W. Va. Filed Oct. 31, 1932.

Kassoulas's MATCHLESS



Geo. Kassoulas

The portrait in the drawing is that of the applicant and the signature is a facsimile of applicant's signature. Applicant disclaims the right to the exclusive use of the word "Matchless" apart from the trade-mark shown in the accompanying drawing.
For Internal Composition of a Jelly-Like Formation for the Relief of Stomach Troubles, Indigestion, Liver Complaint, Kidney Troubles, Pneumonia Fever, Gaseous Formation of the Digestive Tract, Lumbago, Bladder Troubles, Constipation, Impure Blood, and Lame Back.
Claims use since Oct. 7, 1932.

Ser. No. 334,587. JAMES P. STOWE, doing business as The Stowe Stores, Charlotte, N. C. Filed Jan. 31, 1933.



The words "For Colds" appearing in the drawing are disclaimed apart from the mark as shown. The drawing is lined for red.
For Medicinal Preparation for Colds.
Claims use since Nov. 10, 1930.

Ser. No. 335,650. FRANK J. SMITH, Jr., doing business as Frank J. Smith & Son, Albany, N. Y. Filed Mar. 14, 1933.

DR. V'S

For Headache Wafers, Corn Salve, Medicine for Hay Fever and Asthma, Salve for Eczema, Medicine for Indigestion, Cough Syrup; Medicine for Coughs, Colds, Hoarseness, and Bronchitis; Liniment for Neuralgia, Rheumatism, Sprains, Cramps, Pains in Back, Chest and Limbs, Colic, Sore Throat, Swellings, Headache, Toothache, Bruises, Insect Stings, Frosted Feet, and Bunions; Worm Compound, Toilet Cream, Hair Tonic; and Medicine for Neuritis.

Claims use since 1872.

Ser. No. 336,149. HENRY W. BALDWIN, doing business as Baldwin Laboratories, Saegerstown, Pa. Filed Mar. 28, 1933.

TUX

For Insecticide and Fly Killer for Use on Cattle.

Claims use since March, 1923.

Ser. No. 336,287. HENRY L. HIRSCHER, doing business as Standard Remedy Company, New York, N. Y. Filed Mar. 31, 1933.



Applicant hereby disclaims the words in the drawing "Tried and Tested".

For Cough Medicine for Cats and Dogs.

Claims use since Jan. 15, 1932.

Ser. No. 336,354. RICHARD HUDNUT, New York, N. Y. Filed Apr. 3, 1933.

DU BARRY

Applicant is the owner of trade-mark registrations 88,881, 37,959, and 106,231.

For Perfumes, Toilet Water, Sachet Powder, Talcum Powder, Dentifrices, Head-Ache-Cologne, Almond Meal, Toilet Cerate, Smelling Salts, Bath Salts, Rouge, Face Powder, Bath Powder, Muscle Oil, Lip-Sticks, Cuticle Cream, Nail Polish, Nail White, Cuticle Oil, Liquid for Removing Surplus Cuticle, Liquid for Removing Nail Enamel; Packages Containing Preparations for the Care of the Nails, Such as Nail Enamel and Nail Creams; Brilliantine, Eye Lotion, Eye Pencil, Lash Beauty, Eye Shadow; Rouge in Compact, Cream, and Liquid Form; Face Powder in Loose, Compact, and Liquid Form; Creams for the Skin, Neutralizing Creams, Foundation Creams, Tissue Cream, Cleansing Cream, Pore Cream, Hand Cream, Preparation for Blackheads, Deodorants, Bath Tablets, Toilet Powder, Dusting Powder, Astringent, Skin Tonic, Liquids used as a Skin Tonic, Beauty Lotion, Skin Sachet, Packages Containing an Assortment of Beauty Preparations Necessary for Specific Skin Treatments, and Containers of Rouge, Powder, and Lip-Sticks.

Claims use as to perfumes, toilet water, and sachet-powder since August, 1900; to talcum powder since Mar. 7, 1914; to creams for the skin since Apr. 13, 1914; to dentifrices, head-ache cologne, almond meal, toilet cerate, smelling salts, bath salts, and rouge since May 24, 1915; to face powder and bath powder since January, 1903; and to muscle oil, lipsticks, cuticle cream, nail polish, nail white, cuticle oil, liquid for removing surplus cuticle, liquid for removing nail enamel, packages containing preparations for the care of the nails, such as nail enamel and nail creams, brilliantine, puffs for loose powder vanities, eye lotion, eye pencil, lash beauty, eye shadow, tissues for removing make-up, tissues for removing lipstick, rouge in compact, cream, and liquid form, face powder in loose, compact, and liquid form, creams for the skin, neutralizing creams, foundation creams, tissue cream, cleansing cream, pore cream, hand cream, preparation for blackheads, deodorants, bath tablets, toilet powder, dusting powder, astringent, skin tonic, liquids used as a skin tonic, beauty lotion, perfume pats, skin sachet, packages containing an assortment of beauty preparations necessary for specifics in treatments, and containers of rouge, powder, and lip-sticks since April, 1929.

Ser. No. 336,525. SARA HULL BENTLEY, Chicago, Ill. Filed Apr. 7, 1933.

PAT—PAT
DEODORANT TALC

Applicant disclaims the words "Deodorant" and "Talc" apart from their use in the trade-mark as shown.

For Deodorant Talc.

Claims use since Mar. 1, 1933.

Ser. No. 336,926. WALTER G. BROWN, doing business as Sterite Laboratories, Los Angeles, Calif. Filed Apr. 19, 1933.

Rx STERITE

No claim is made for the prescription symbol "Rx" apart from the mark as shown.

For Antiseptic Preparation.

Claims use since Mar. 4, 1931.

Ser. No. 337,004. J. EDWARD DONNELLAN, doing business as National Dairy Bureau, Cleveland, Ohio. Filed Apr. 20, 1933.



The word "Udder-Ease" is disclaimed apart from the mark as shown on the drawing.

For Liniment Used as an External Application in Relieving Muscular Soreness, Strains, and Sprains, and Local Congestion and Inflammation in the Udders of Cows.

Claims use since Sept. 1, 1932.

Ser. No. 337,031. W. T. HANSON CO., Schenectady, N. Y. Filed Apr. 21, 1933.

KOREK-TOE

The exclusive use of the word "Toe" appearing in the drawing is disclaimed apart from the mark as shown.

For Preparation for Use in the Treatment of Ingrown Nails.

Claims use since Mar. 28, 1933.

Ser. No. 337,271. SHEFFIELD DENTIFRICE COMPANY, New York, N. Y., and New London, Conn. Filed Apr. 28, 1933.

MICKY MOUSE

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs; Skin Whitener in Liquid, Cream, or Solid Form; Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations for the Darkening of Eyelashes and Eyebrows, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Polishes, Nail Creams, Nail Bleaches, Witch Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.

Claims use since Apr. 15, 1933.

Ser. No. 337,399. S. M. A. CORPORATION, Cleveland, Ohio. Filed May 2, 1933.

SMACO

For Cod Liver Oil, Solutions of Carotene in Oil, Vitamin Concentrates, and Maltose and Dextrine Preparations.

Claims use since Aug. 30, 1932.

Ser. No. 337,639. CALVIN W. MCCUTCHEN & CO., INC., New York, N. Y. Filed May 9, 1933.

ANUCAINE



For Local Anesthetic Having the Following Medicinal Uses: Used in the Treatment of Anal Fissure, Pruritus Ani; Hemorrhoids, External and Internal; Anal Crypts and Papillæ Fistulæ and Spastic Sphincters, and for Minor Surgical Procedures in and Around the Anal Canal.

Claims use since Apr. 1, 1933.

Ser. No. 337,670. C. B. FLEET CO., INC., Lynchburg, Va. Filed May 10, 1933. Under 10-year proviso.

FLEET

For Concentrated Solution of Sodium Phosphate, Used as a Laxative, Purgative, and Hepatic Stimulant; and for the Treatment of Constipation, Gastro-Intestinal Disturbances, Jaundice, Seasickness, Sickness During Pregnancy, and for the Relief of Irritation of the Stomach and Nausea.

Claims use since 1893.

Ser. No. 337,671. C. B. FLEET CO., INC., Lynchburg, Va. Filed May 10, 1933. Under 10-year proviso.

PHOSPHO-SODA
(FLEET)

For Concentrated Solution of Sodium Phosphate Used as a Laxative, Purgative, and Hepatic Stimulant, and for

the Treatment of Constipation, Gastro-Intestinal Disturbances, Jaundice, Seasickness, Sickness During Pregnancy, and for the Relief of Irritation of the Stomach and Nausea.

Claims use since 1893.

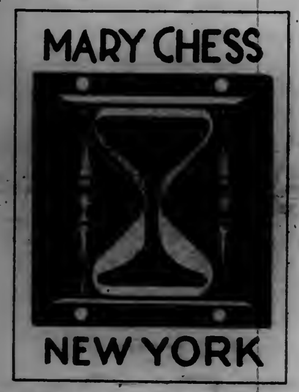
Ser. No. 337,680. MARION RASMUS, doing business as The Cambridge Laboratories, Eggertsville, N. Y. Filed May 10, 1933.

COMINTO

For Medicinal Preparations for the Treatment of Colds, Throat Irritations, Congestions, Burns, Cuts, Skin Irritations and Ailments, Fever, Headaches, and Pains, Produced by Colds, Grippe, and Arthritis.

Claims use since July 1, 1932.

Ser. No. 337,689. MARY CHESS, INC., New York, N. Y. Filed May 11, 1933.



No claim is made to the words "New York" apart from the mark as shown.

For Toilet Preparations—Namely, Astringents, Beauty Creams, Cleansing Creams, Nourishing Creams, Bath Oils, Bath Powders, Bath Rubs, Face Powders, Liquid Face Powders, Skin Softeners, Cleaning Lotions, Toilet Waters, Scent Balls.

Claims use since Oct. 1, 1932.

Ser. No. 337,835. CAMPANA CORPORATION, Batavia, Ill. Filed May 15, 1933.

Campana's

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Vanishing Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Hand Lotions, Skin Lotions, Lotions for Use After Shaving, Pomades, Face Powders, Liquid Face Powders, Eye Shadows, Eyebrow Pencils, Hair Salves, Hair Elixirs, Dandruff Preparations, Wave-Setting Lotions, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Lipsticks, Mouth Washes, Tooth Pastes and Other Dentifrices, Depilatories, Nail Creams, Nail Bleaches, Nail Powders, Nail Polishes, Liquid Cuticle Removers, Cuticle Oil, Witch Hazel, Witch Hazel Salves, Camphor Creams, Talcum Powders, Foot Powders, Corn Salves, and Bay Rum.

Claims use since Jan. 1, 1895, on skin lotions; since May 10, 1933, on other goods.

Ser. No. 337,908. EUREKA CHEMICAL COMPANY, Sylacauga, Ala. Filed May 15, 1933.

KING BEE ANT CHASER



No claim is made to the words "Drives Ants Away" apart from the mark shown in the drawing.

For Preparation to Drive Away Ants.

Claims use since Jan. 4, 1924.

Ser. No. 337,929. PINAUD, INCORPORATED, New York, N. Y. Filed May 17, 1933.



The representation of the French barber in the drawing is a fanciful creation. No claim is here made to the representation of the container alone apart from the mark shown.

For Hair Tonic, Toilet Water, Bath Salts, Perfumes, Dentifrices, Toilet and Face Powder, Rouge, Skin Cream, Lipstick, Pomade, Liquid Hair Dressing, Mustache, and Hair Wax, Smelling Salts, Skin Lotion, Brilliantine, Liquid Shampoo, Nail Preparations.

Claims use since Apr. 19, 1933.

Ser. No. 337,940. FAY WOOD CORPORATION, New York, N. Y. Filed May 17, 1933.



No exclusive claim is made to the words "Beauty Products" and "Fifth Avenue, New York" apart from the mark shown in the drawing.

For Skin Toning Lotion, Face Powder, Hand Lotion, Acne Lotion, Liquid Shampoo, Cleansing Cream, Muscle Oil, Tissue Cream, Acne Cream, Perfume, Astringent Lotion, Foundation Cream, Combination Cold Cream and Astringent Cream.

The trade-mark has been continuously used in applicant's business since Oct. 6, 1932, and applied to skin toning lotion, face powder, hand lotion, cleansing cream, and perfume since Oct. 6, 1932; to acne cream since Nov. 23, 1932; to acne lotion and liquid shampoo since Nov. 25, 1932; to muscle oil since Nov. 26, 1932; to tissue cream since Nov. 28, 1932; to astringent lotion and foundation cream since Jan. 28, 1933; to combination cold cream since Jan. 31, 1933; and to astringent cream since Feb. 7, 1933.

Ser. No. 337,997. FRANK DE LUGACH, doing business as Dee's Manufacturing Co., Chicago, Ill. Filed May 19, 1933.



The drawing is lined to indicate a yellow color. Applicant disclaims sole right to the words "Lemon Tooth Paste" apart from the mark as shown.

For Tooth Paste.

Claims use since Apr. 15, 1933.

Ser. No. 338,035. E. DALTROFF & CIE, doing business as Parfumerie Caron, Paris, France. Filed May 20, 1933.

NUIT D'AVION

For Perfumes, Toilet Waters, Face and Toilet Powders, Powder and Rouge Compacts, Rouges, Lipsticks, Bath Salts, Lotions for the Skin and Hair, and Sachets.

Claims use since Mar. 11, 1933.

Ser. No. 338,170. J. H. TUVIN, doing business as The Dehydrol Company, Baltimore, Md. Filed May 23, 1933.

Dehydrol

For Preparation to be Used for Reducing.

Claims use since Oct. 16, 1932.

Ser. No. 338,174. WILLIAM HANSEN, New York, N. Y., assignor to Julius Schmid, New York, N. Y. Filed May 23, 1933.

Peggy Doris

For Rouge Compacts and Lip Sticks.

Claims use since Mar. 1, 1933.

Ser. No. 338,232. STANTON LABORATORIES, Brooklyn, N. Y. Filed May 25, 1933.



Applicant hereby disclaims the words "Greaseless Skin Cream" and "Trade Mark".

For Greaseless Skin Cream.

Claims use since Feb. 1, 1932.

Ser. No. 338,344. WILCHECK CHEMICAL CO. INC., New York, N. Y. Filed May 29, 1933.



No claim is made to the word "Relief" apart from the mark shown in drawing.

For Liniment for External Use for the Relief of Colds, Sore Throat, Headaches, Indigestion, Hay Fever, Asthma, Rheumatism, Aches and Sprains, Pains and Sprains.

Claims use since May 1, 1933.

Ser. No. 338,371. HYNSON, WESTCOTT & DUNNING, INCORPORATED, Baltimore, Md. Filed May 31, 1933.

BROMSALIZOL

For Bromine Derivatives of Saligenin.

Claims use since Apr. 1, 1933.

Ser. No. 338,430. S. B. PENICK & COMPANY, INC., New York, N. Y. Filed June 1, 1933.

MISTOFUME

For Insecticides.

Claims use since May 10, 1933.

Ser. No. 338,431. S. B. PENICK & COMPANY, INC., New York, N. Y. Filed June 1, 1933.

PYROPO

For Insecticides.
Claims use since May 10, 1933.

Ser. No. 338,458. LA FONT LABORATORIES, INC., Yonkers, N. Y. Filed June 2, 1933.

INSOMINAL

For Preparations for the Relief of Sleeplessness.
Claims use since May 2, 1933.

Ser. No. 338,481. BOURJOIS, INC., New York, N. Y. Filed June 3, 1933.

NUMBER THIRTY

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs; Skin Whitener in Liquid, Cream, and Solid Form; Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Body Powders, Sachets, Chemical Preparations Suitable for the Darkening of Eyelashes and Eyebrows, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Depilatories, Nail Powders, Nail Creams, Nail Polishes, Nail Bleaches, Witch Hazel, Peroxide, Petroleum Jellies, Witch Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Feb. 16, 1933.

Ser. No. 338,635. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa. Filed June 7, 1933.

GC

For Silicate of Soda, Either Anhydrous, Hydrated, or in Solution.
Claims use since Apr. 12, 1933.

Ser. No. 338,636. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa. Filed June 7, 1933.

SS

For Silicate of Soda, Either Anhydrous, Hydrated, or in solution.
Claims use since Apr. 17, 1933.

Ser. No. 338,637. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa. Filed June 7, 1933.

SS-C

For Silicate of Soda, Either Anhydrous, Hydrated, or in Solution.
Claims use since Jan. 1, 1932.

Ser. No. 338,644. BINNEY & SMITH CO., New York, N. Y. Filed June 8, 1933.

TACAID



For Plasticizer for Use in Connection with Rubber.
Claims use since June 1, 1933.

Ser. No. 338,652. PERCIVAL E. FALKINGHAM, New York, N. Y. Filed June 8, 1933.

THYSTA

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs; Skin Whitener in Liquid, Cream, and Solid Form; Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations Suitable for the Darkening of Eyebrows and Eyelashes, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Depilatories, Tooth Pastes, Nail Creams, Nail Bleaches, Nail Powders, Nail Polishes, Witch Hazel, Peroxide, Petroleum Jellies, Witch Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since May 26, 1933.

Ser. No. 338,872. LETHELIN PRODUCTS COMPANY, Manhasset, N. Y. Filed June 15, 1933.

ANT-BATE

For Ant and Roach Poison.
Claims use since May 19, 1932.

CLASS 11

Inks and Inking Materials

Ser. No. 339,099. CODO MANUFACTURING CORPORATION, Coraopolis, Pa. Filed June 22, 1933.

CODO

STENOCRAFT

For Typewriter Ribbons and Carbon Papers.
Claims use since June 1920.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 332,187. ELLSWORTH D. GAGE, doing business as Rain Machine Sales Co., Oakland, Calif. Filed Nov. 16, 1932.

SHUR-RANE

For Portable Overhead Irrigating Systems Including Water Distributing and Sprinkling Apparatus.
Claims use since Nov. 10, 1932.

Ser. No. 338,924. BRIGGS MANUFACTURING COMPANY, Detroit, Mich. Filed June 17, 1933.

Brigsteel

For Sinks, Lavatories, and Bathtubs.
Claims use since Mar. 15, 1933.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 334,834. GENERAL STEEL CASTINGS CORPORATION, Ridley Township, Delaware County, Pa. Filed Feb. 10, 1933.



For Rough and Semi-Finished Metal Castings and Forgings of Ferrous Metals, Brass, Aluminum, and Lead.
Claims use since Jan. 7, 1933.

Ser. No. 339,064. THE DURIRON COMPANY, INC., Dayton, Ohio. Filed June 21, 1933.

DURICHLOR

For Ferrous Alloys.
Claims use since May 31, 1933.

CLASS 16

Paints and Painters' Materials

Ser. No. 338,497. S. H. KRESS & CO., New York, N. Y. Filed June 3, 1933.

DART

For Cedar Oil Floor Polish.
Claims use since Feb. 1, 1933.

CLASS 17

Tobacco Products

Ser. No. 338,585. A. SIEGEL & SONS INC., New York, N. Y. Filed June 6, 1933.



No claim is made to the word "Norwood" apart from the mark shown in the drawing.
For Cigars.
Claims use since June 23, 1915.

Ser. No. 338,600. COLONIAL CITY CIGAR MANUFACTURING CO. INC., Kingston, N. Y. Filed June 7, 1933.

King Stone

The words "Quality", "Uniformity", and "Workmanship" are disclaimed apart from the other features of the mark shown in the drawing.
For Cigars.
Claims use since May 4, 1933.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 328,098. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed June 18, 1932.

Kleinerts-Acushnet

Owners of registrations Nos. 48,993, 136,843, 139,152, 140,859 under the 10-year proviso. Applicant disclaims the exclusive right to the use of the word "Acushnet" except as the same is used in connection with the other features of the mark shown on the drawing.
For Floating Rubber Animal and Caricature Toys.
Claims use since Jan. 8, 1932.

Ser. No. 337,517. CHARLES H. GRELLE, doing business as The Bol-Dart Mfg. Co., Meriden, Conn. Filed May 5, 1933.

BOL-DART

No claim is made to the word "Dart" apart from its association with the word "Bol".
For Games Played with Darts and a Target.
Claims use since Feb. 29, 1932.

Ser. No. 338,905. PEG FOOTBALL CO., Minneapolis, Minn. Filed June 16, 1933.

CAMPUS KING

For Table Football Game Played with Playing Cards, a Chart, and a Movable Piece.
Claims use since June 12, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 338,317. IRVING FOX, New York, N. Y. Filed May 29, 1933.



For Safety Razor Blades.
Claims use since May 1, 1933.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 337,679. THE OHIO MATCH COMPANY, Wadsworth, Ohio. Filed May 10, 1933.

OHIO
BLUE LABEL

No claim is made to the exclusive use of a label colored blue.
For Tooth Brushes.
Claims use since Apr. 18, 1933.

CLASS 31

Filters and Refrigerators

Ser. No. 338,609. THE KOLD MASTER REFRIGERATOR COMPANY, Canton, Ohio. Filed June 7, 1933.

KOLD-MASTER

For Household and Store Refrigerators for the Preservation of Food Stuffs.
Claims use since Feb. 4, 1933.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 338,042. GILBERT & BARKER MANUFACTURING COMPANY, West Springfield, Mass. Filed May 20, 1933.

Essoburner

For Oil Burners.
Claims use since Apr. 17, 1933.

Ser. No. 338,226. MAYFLOWER OIL BURNER CORP., West New York, N. J. Filed May 25, 1933.



The use of the words "Oil Burners" is disclaimed except in connection with the mark as shown.
For Oil Burners, Cooling, Ventilating, and Humidifying Units.
Claims use since Mar. 15, 1926.

Ser. No. 338,254. MATCH KING, INC., Chicago, Ill. Filed May 26, 1933.

"EVERLASTING MATCH"

For Lamps—Namely, Pocket, Table, and Stand Lamps, Using as a Fuel Petroleum Products—Namely, Benzine, Naphtha, or Gasoline.
Claims use since early part of September, 1932.

CLASS 37

Paper and Stationery

Ser. No. 338,034. CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif. Filed May 20, 1933.

CREST

For Wrapping Paper.
Claims use since Nov. 17, 1930.

Ser. No. 338,180. FRED H. BEYER, doing business as Beyer's Shop-System, Lockport, N. Y. Filed May 24, 1933.



No claim is made for the words "Shop-System" apart from the mark shown.
For Record Books.
Claims use since May 15, 1933.

Ser. No. 338,689. EBERHARD FABER PENCIL COMPANY, Brooklyn, N. Y. Filed June 9, 1933.

E. F.

For Lead Pencils.
Claims use since June, 1921.

Ser. No. 338,746. EDWARD MCDERMON, Washington, D. C. Filed June 10, 1933.

E. McD.

For Blank Book System for Income Tax Purpose.
Claims use since Jan. 1, 1931.

Ser. No. 339,106. HAMPSHIRE PAPER COMPANY, South Hadley Falls, Mass. Filed June 22, 1933.

COMPARISON BOND

Applicant disclaims the exclusive right to the word "Bond" apart from the mark shown in the drawing.
For Writing and Printing Paper.
Claims use since Mar. 3, 1933.

CLASS 38

Prints and Publications

Ser. No. 335,568. WINGS PUBLISHING COMPANY, INC., New York, N. Y. Filed Mar. 9, 1933.

FIGHTING ACES OF WAR SKIES
WINGS

For Monthly Fiction Magazine.
Claims use since Oct. 21, 1927.

Ser. No. 338,823. MACFADDEN PUBLICATIONS, INC., New York, N. Y. Filed June 13, 1933.

DETECTIVE CASES

For Monthly Magazine.
Claims use since June 6, 1933.

Ser. No. 338,902. ARTHUR G. KLIWER, doing business as U-Needit Calculator Company, Abilene, Kans. Filed June 16, 1933.



The word "Calculator" is disclaimed apart from the other features of the mark shown in the drawing.
For Calculating Chart to be Used by Millers in Determining Calculations Pertaining to Blending Percentages.
Claims use since Mar. 20, 1933.

Ser. No. 338,906. PITT PUBLISHING COMPANY, Pittsburgh, Pa. Filed June 16, 1933.

THE JUNIOR PATROL

For Cartoons.
Claims use since Jan. 30, 1933.

Ser. No. 339,179. THE CHAMBER OF COMMERCE OF THE UNITED STATES OF AMERICA, Washington, D. C. Filed June 24, 1933.

NATION'S BUSINESS

For Monthly Periodical.
Claims use since Sept. 2, 1912.

CLASS 39

Clothing

Ser. No. 328,099. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed June 18, 1932.

Kleinerts-Acushnet

Applicant hereby disclaims the exclusive right to the use of the word "Acushnet" except as the same is used in connection with the other features of the mark shown on the drawing.
For Bathing Shoes and Bathing Caps and Bathing Belts.
Claims use since Jan. 8, 1932.

Ser. No. 332,246. Best & Co., Inc., New York, N. Y. Filed Nov. 18, 1932.

St. Tropez

No claim is made to the words "St. Tropez" apart from the mark shown in the drawing.
For Hats, Coats, Dresses, Outer and Under Shirts, Pajamas, Negligees, Hosiery; Step-Ins—Namely, Corsets, Brassières, and Underdrawers; Chemises, Sweaters, Bathing Suits, and Nightgowns for Women and Children.
Claims use since Sept. 18, 1931.

Ser. No. 335,397. Garfinkel & Ritter, New York, N. Y. Filed Mar. 1, 1933.

THE TULANE

For Ladies' Undergarments—Namely, Slips, Panties, and Chemises; Ladies' Nightgowns and Ladies' Pajamas.
Claims use since Feb. 24, 1933.

Ser. No. 336,064. American Enka Corporation, Asheville, N. C. Filed Mar. 25, 1933.

LinGlee

For Lingerie: Negligees, Underwear—Namely, Slips, Pantics, Vests, and Bandeaux; Nightgowns, and Pajamas.
Claims use since Feb. 22, 1933.

Ser. No. 337,609. Hoover Hosiery Company, Concord, N. C. Filed May 8, 1933.

TOWNWEAR

For Men's and Women's Hosiery.
Claims use since Mar. 13, 1933.

Ser. No. 337,804. Schuylkill Valley Mills, Inc., Spring City, Pa. Filed May 13, 1933.

·SOME·VALUE·MADAM·

The words "Some Value" are disclaimed apart from the mark as shown.
For Hosiery.
Claims use since Jan. 16, 1933.

Ser. No. 337,870. B. Kuppenheimer & Co. Inc., Chicago, Ill. Filed May 12, 1933.

Duncan Paige

The mark is the facsimile signature of Duncan Paige.
For Men's and Boys' Ready to Wear Coats, Vests, Trousers, and Overcoats.
Claims use since October, 1926.

Ser. No. 337,915. The Irving Drew Co., Portsmouth, Ohio. Filed May 17, 1933.

AGÉLITE

For Women's Shoes of Leather and Fabric and a Combination of These Materials.
Claims use since May 1, 1933.

Ser. No. 338,077. Craddock Terry Company, Lynchburg, Va. Filed May 22, 1933.

Billiken TRU-POSTURE

For Shoes Made of Leather, Fabric, or Rubber, or a Composition of Leather, Fabric, or Rubber.
Claims use since Apr. 10, 1933.

Ser. No. 338,521. Hart, Schaffner & Marx, Chicago, Ill. Filed June 5, 1933.

Robert Surrey

Trade-mark is a facsimile of the signature of Robert Surrey, consent given.
For Men's Coats, Vests, Trousers, Knickerbockers, Top Coats, and Overcoats.
Claims use since Feb. 25, 1933.

Ser. No. 338,580. Riegel Textile Corporation, New York, N. Y. Filed June 6, 1933.

SMART MONEY

For Men's Dress and Negligee Shirts.
Claims use since May 24, 1933.

Ser. No. 338,582. The Shelby Shoe Company, Portsmouth, Ohio. Filed June 6, 1933.

SZ

For Boots and Shoes Constructed of Leather and/or Fabric.
Claims use since Apr. 1, 1933.

Ser. No. 338,586. The Stetson Shoe Company, Inc., Weymouth, Mass. Filed June 6, 1933.

STANTOM

For Leather Boots and Shoes.
Claims use since May 29, 1933.

Ser. No. 338,895. The B. V. D. Company, Inc., Baltimore, Md. Filed June 16, 1933.

THE AMPHIBIAN

For Bathing Suits.
Claims use since May 25, 1933.

Ser. No. 338,899. Sydney W. Elsner, New York, N. Y. Filed June 16, 1933.

Lady Jeanne

For Hosiery.
Claims use since Sept. 28, 1932.

Ser. No. 338,933. I. B. Kleinert Rubber Company, New York, N. Y. Filed June 17, 1933.

TWO-TWELVE

For Baby Pants.
Claims use since May 29, 1933.

Ser. No. 338,986. Mutual Garment Company, St. Louis, Mo. Filed June 19, 1933.

"Miss Co-Ed"

For Women's Wearing Apparel—Namely, Princess Slips, Chemises, and Panties.
Claims use since May 1, 1932.

Ser. No. 339,006. Souvenir Hosiery, Incorporated, Chicago, Ill. Filed June 19, 1933.

Souvenir

For Hosiery.
Claims use since Apr. 14, 1933.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 337,092. Norman D. Roemer, New York, N. Y. Filed Apr. 22, 1933.



No claim is made to the words "Customade Candlewicks" and "In Modern Mode" apart from the mark shown on the drawing. The drawing is lined for green.
For Bedspreads and Valances and Draperies Trimmed with Candlewick Tufting.
Claims use since October, 1932.

Ser. No. 337,555. Cushing-Feinberg, Inc., New York, N. Y. Filed May 6, 1933.

JERICHO

No claim is made to the word "Jericho" apart from the mark shown in the drawing.
For Silks, Satins, Cottons, Linens, Woolens, Rayons, and/or Combinations Thereof, in the Piece.
Claims use since July 1, 1931.

Ser. No. 338,012. Neuss, Hesslein & Co., Inc., New York, N. Y. Filed May 19, 1933.

SILVATEX

For Bleached Satteens and Other Cotton Piece Goods.
Claims use since December, 1924.

Ser. No. 338,339. SADINOFF & WENDROFF, INC., New York, N. Y. Filed May 29, 1933.

"ADELE"

For Textile Fabrics—Namely, Curtains, Draperies, and Scarfs.
Claims use since May 27, 1933.

Ser. No. 338,642. MAJESTIC SILK MILLS, INC., New York, N. Y. Filed June 14, 1933.

MAJESTIC SILK MILLS INC.

For Silk Piece Goods.
Claims use since January, 1920.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 329,015. THE E. Z. WALK CORPORATION, New York, N. Y. Filed July 23, 1932.

E-Z

For Aseptic and Antiseptic Bands and Bandages.
Claims use since June 1, 1932.

Ser. No. 331,452. YOUNGS RUBBER CORPORATION, INC., New York, N. Y. Filed Oct. 21, 1932.

HANDI FOUNT

The word "Fount" is not claimed apart from the mark as shown.
For Douche Syringes.
Claims use since Oct. 13, 1932.

Ser. No. 332,426. JULIUS SCHMID, New York, N. Y. Filed Nov. 23, 1932.

DASH

For Prophylactic Rubber and Membranous Articles for the Prevention of Contagious Diseases.
Claims use since Oct. 21, 1932.

Ser. No. 333,017. SPLAIN & LLOYD, INCORPORATED, Milford, Ohio. Filed Dec. 12, 1932.

SANI-SWAB

Exclusive use of the word "Swab" is disclaimed apart from the mark as shown.
For Cotton Applicators.
Claims use since Aug. 1, 1932.

Ser. No. 338,306. THE BAY COMPANY, Bridgeport, Conn. Filed May 29, 1933.

ORTHALETIC

For Adhesive Plaster.
Claims use since May 3, 1933.

Ser. No. 338,422. MON DOCTEUR IMPORTING CO., INC., Middlefield, Conn. Filed June 1, 1933.

Mon Docteur

For Vaginal Syringes and Douche Bags.
Claims use since Dec. 6, 1929.

Ser. No. 338,882. WESTON-SCHRAMM, INC., New York, N. Y. Filed June 15, 1933.

ROLEX

For Massage Vibrators.
Claims use since May 1, 1933.

Ser. No. 338,940. PRECIOUS METALS REFINING WORKS, INC., Pontiac, Mich. Filed June 17, 1933.

PREFERRED

For Dental Casting Golds for Inlays, Crowns, Abutments, Bars, Cast Clasps, Lingual and Palatal Bars, Saddle Bridges, Gold Discs and Nuggets, Gold Shells, Gold Solders, Clasp Metal (High Fusing and Regular), Dental Platinum, Iridio Platinum and Silver (Plate, Wire, and Foil), Silver Alloy, Mercury, Amalgum, Electrolytically Treated Metals.
Claims use since 1875.

Ser. No. 338,951. SUTHERLAND MFG. CO., INC., Washington, D. C. Filed June 17, 1933.

COMET

For Arch Lifts, Vacuum Cups for Surgical Purposes, Vacuum Pumps for Surgical Purposes, and Cabinets for Surgical Purposes.
Claims use since May 16, 1933, on arch lifts and vacuum cups; May 31, 1933, on vacuum pumps; and June 9, 1933, on cabinets.

Ser. No. 338,980. THE MASSILLON RUBBER COMPANY, Massillon, Ohio. Filed June 19, 1933.

dermatized

For Surgeon's Gloves.
Claims use since May 2, 1933.

Ser. No. 339,196. NELSON PRODUCTS CORPORATION, New York, N. Y. Filed June 24, 1933.

NIPPLE-AIDOR

For Bottle Feeding Appliances.
Claims use since June 12, 1933.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 338,828. THE ABILENA COMPANY, Abilene, Kans. Filed June 14, 1933.

ABILENA

For Natural Mineral Water.
Claims use since Apr. 25, 1901.

Ser. No. 338,867. FARMERS FEDERATION, INC., Asheville, N. C. Filed June 15, 1933.

SPARKLING CARMATO

Applicant disclaims any exclusive right to the word "Sparkling" apart from the mark shown in the drawing.
For Non-Alcoholic Maltless, Tomato Juice Beverages, Sold as Soft Drinks.
Claims use since Apr. 26, 1933.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 328,061. CHAUTAUQUA MALTED MILK, INC., Mayville, N. Y. Filed July 9, 1932.



For Powdered Skim Milk, Powdered Whole Milk, Ice Cream Mix, Malted Milk.
Claims use since Jan. 1, 1932.

Ser. No. 330,602. MILANI FOOD CORPORATION, Chicago, Ill. Filed Sept. 28, 1932.



No claim is made to the representation of the label per se. The words "Spaghetti Sauce" are disclaimed apart from the mark as shown in the drawing.
For Spaghetti Sauce.
Claims use since Apr. 1, 1932.

Ser. No. 330,657. INTERNATIONAL MILLING COMPANY, Minneapolis, Minn. Filed Sept. 26, 1932.

IMCO SPECIAL

No claim is made to the word "Special" except in the association shown.
For Wheat Flour.
Claims use since May 20, 1932.

Ser. No. 334,148. JOHN B. HARDWICKE, doing business as John B. Hardwicke Co., Corpus Christi, Tex. Filed Jan. 20, 1933.

BRAHMA

For Fresh Vegetables, Fresh Citrus Fruits, Fresh Deciduous Fruits.
Claims use since Sept. 8, 1932.

Ser. No. 335,212. CHARLES A. RAYMOND, Marion, Ohio. Filed Feb. 23, 1933.

TOASTED NUT-CHIPS

No claim is made to the words "Toasted Nut Chips" except in association with the other features of the mark as shown.
For Toasted Food Product in Wafer-Like Form Having a Nut-Meat and/or Vegetable Ingredient.
Claims use since Feb. 13, 1933.

Ser. No. 335,283. MADELEINE V. MEIER, New Rochelle, N. Y. Filed Feb. 25, 1933.

by Madeleine

For Bottled Salad Dressings.
Claims use since Feb. 16, 1933.

Ser. No. 335,907. JACOB FORST PACKING CO., INC., Kingston, N. Y. Filed Mar. 18, 1933.

FORST'S FORMOST

For Hams, Picnic Hams, Boiled Ham, Strip Bacon, Sliced Bacon, Tenderolls, Frankfurts, Bologna, and Lard Shortening.
Claims use since Aug. 1, 1931.

Ser. No. 335,959. GOLDWEIN KOSHERMADE PRODUCTS CO., Brooklyn, N. Y. Filed Mar. 22, 1933.

כשר GOLDWEIN KOSHERMADE POULTRY READY TO COOK כשר כשר כשר KOSHER

The words "Poultry Ready to Cook, Koshermade, Kosher" in its English and Jewish characters are disclaimed, except in the association shown.
For Koshered Dressed Poultry.
Claims use since Jan. 16, 1933.

Ser. No. 336,302. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Mar. 31, 1933.

ALLSTATE

For Pie Filling, Candy, Fish Food, Malt Syrup, and Mustard.
Claims use since Nov. 30, 1932, as to candy, fish food and mustard; and since Jan. 24, 1933, as to malt syrup.

Ser. No. 336,581. INDUSTRIAL APPLIANCES, INC., Sandusky, Ohio. Filed Apr. 7, 1933.

FLAVOROL

For Ice Cream and Other Frozen Confections.
Claims use since Jan. 23, 1933.

Ser. No. 336,679. GRIGGS, COOPER & CO., doing business as Sanitary Food Mfg. Co., St. Paul, Minn. Filed Apr. 12, 1933.

PRIMROSE

For Gelatine, Cocoa, Apple Butter, Honey, Jelly, Mince Meat, Marmalade, Fruit Preserves, Coffee, Tea, Table Syrup, Sorghum, Chow Chow, Mustard, Olives, Bottled Sweet Onions, Pickles, Sweet Relish, Vinegar, Tapioca, Malt Syrup, Macaroni, Spaghetti, Noodles, Vermicelli.
Claims use since Oct. 1, 1899.

Ser. No. 337,187. GRAHAM MILL & ELEVATOR COMPANY, Graham, Tex. Filed Apr. 26, 1933.

Super-lite

For Wheat Flour.
Claims use since Apr. 8, 1933.

Ser. No. 337,811. VITALITY MILLS, INC., Chicago, Ill. Filed May 13, 1933.

ADVANCE

For Poultry and Stock Foods.
Claims use since Aug. 4, 1921.

Ser. No. 337,988. ARARAT COMPANY, INC., doing business as University Milling Co., Cambridge, Mass. Filed May 19, 1933.

QUEX

For Cereal Breakfast Food.
Claims use since Mar. 10, 1933.

Ser. No. 338,044. THE GOPHER BEER CHIP COMPANY, Minneapolis, Minn. Filed May 20, 1933.

Beer-Chips

The word "Chips" is disclaimed apart from the mark as shown.
For Potato Chips.
Claims use since Apr. 22, 1933.

Ser. No. 338,048. HAWAIIAN PINEAPPLE COMPANY, LTD., Honolulu, Territory of Hawaii. Filed May 20, 1933.



The representation of the goods per se is disclaimed. The representation of the label is also disclaimed.
For Canned Pineapple.
Claims use since May 13, 1932.

Ser. No. 338,051. P. J. KOLB CHEESE CO., Lena, Ill. Filed May 20, 1933.



No claim is made to the words "Old Heidelberg Cheese" except in the association shown in the drawing.
For Cheese.
Claims use since Sept. 14, 1931.

Ser. No. 338,085. JAS. H. FORBES TEA AND COFFEE COMPANY, St. Louis, Mo. Filed May 22, 1933.

Dutch Lunch

For Mustard.
Claims use since Oct. 1, 1932.

Ser. No. 338,099. G. MEERTIEF, doing business as Meertief Chicle Company, Los Angeles, Calif. Filed May 22, 1933.

KETZA

For Chewing Gum.
Claims use since Mar. 6, 1933.

Ser. No. 338,112. ROMAN MEAL COMPANY, Tacoma, Wash. Filed May 22, 1933.

GLADIATOR

For Whole Wheat Cereal.
Claims use since July, 1932.

Ser. No. 338,218. SAMUEL T. CWICK INC., Brooklyn, N. Y. Filed May 25, 1933.

KINGS FARM
BRAND

No claim is made to the word "Brand" apart from the mark as shown on the drawing.
For Butter and Eggs.
Claims use since Jan. 2, 1929.

Ser. No. 338,400. THE CAPITAL CITY PRODUCTS COMPANY, Columbus, Ohio. Filed June 1, 1933.

King Peanut

The exclusive right to the use of the word "Peanut" aside from the mark as shown is hereby disclaimed.
For Peanut Oil for Use in the Making of Salads and as a Cooking Oil.
Claims use since Mar. 8, 1933.

Ser. No. 338,785. JOSEPH J. LOMONACO, doing business as Dallas Macaroni Mfg. Co., Dallas, Tex. Filed June 12, 1933.

Lomco

For Dried Macaroni, Spaghetti, and Vermicelli.
Claims use since June 1, 1930.

Ser. No. 338,874. MODERN FOOD PROCESS COMPANY, Philadelphia, Pa. Filed June 15, 1933.

Thrivo

For Dog and Cat Food.
Claims use since May 15, 1933.

Ser. No. 338,975. INTERNATIONAL MILLING COMPANY, Minneapolis, Ind. Filed June 19, 1933.



The drawing is lined for shading only.
For Wheat Flour.
Claims use since October, 1932.

Ser. No. 339,010. WILLIAM WARREN CO., San Francisco, Calif. Filed June 19, 1933.

CINDERELLA

For Ground Chocolate and Cocoa, and Cocoa.
Claims use since Apr. 1, 1924.

CLASS 47

Wines

Ser. No. 336,928. CROFT & CO. LIMITED, London, England. Filed Apr. 19, 1933. Under 10-year proviso.

CROFT'S

For Port Wines.
Claims use since 1890.

Ser. No. 336,929. CROFT & CO. LIMITED, London, England. Filed Apr. 19, 1933. Under 10-year proviso.

CROFT & Co

For Port Wines.
Claims use since Aug. 13, 1805.

Ser. No. 339,042. ROBERTSON BROS. & CO. LIMITED, London, England. Filed June 20, 1933. Under 10-year proviso.

ROBERTSON'S

For Port Wine.
Claims use since 1847.

Ser. No. 339,056. WILLIAMS & HUMBERT, London, England. Filed June 20, 1933. Under 10-year proviso.

WILLIAMS & HUMBERT

For Sherry Wine.
Claims use since Nov. 4, 1890.

Ser. No. 339,167. SILVA & COSENS, LIMITED, London, England. Filed June 23, 1933. Under 10-year proviso.

DOW'S PORT

For Port Wine.
Claims use since Jan. 1, 1835.

Ser. No. 339,183. R. CRIBARI & SONS, San Jose, Calif. Filed June 24, 1933.

Las Palmas

For Wines.
Claims use since 1931.

CLASS 48

Malt Beverages and Liquors

Ser. No. 335,330. NIPPON BEIRU KOSEN KABUSHIKIKAISHA, Marunouchi, Kojimachi-Ku, Tokyo-Shi, Japan. Filed Feb. 27, 1933.



No claim is made to the words "Highest Quality Guaranteed", "Best Lager Beer", "Trade Mark", "Specially Brewed for Export", "Tokyo, Japan", "Brewed and Bottled in Japan" appearing on the drawing.
For Beer with Not More Than the Legal Alcoholic Content.
Claims use since April, 1922.

Ser. No. 336,922. AKTIESELSKABET DE FORENEDE BRYGGERIER, Copenhagen, Denmark. Filed Apr. 19, 1933.

Tuborg

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since 1873.

Ser. No. 337,698. HOLSTEN-BRAUEREI, Altona, Germany. Filed May 11, 1933.



No claim is made to the words "Bräu", "Altona/Elbe", and "Made in Germany", nor to the representation of a label per se.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since 1906.

Ser. No. 337,853. HOLSTEN-BRAUEREI, Altona, Germany. Filed May 15, 1933.



No claim is made to the word "Bräu".
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Jan. 21, 1895.

Ser. No. 338,838. INDIANA BREWERIES, INC., Indianapolis, Ind. Filed June 14, 1933.



For Lager Beer with Not More Than the Legal Alcoholic Content.
Claims use since May 26, 1933.

Ser. No. 338,839. INDIANA BREWERIES, INC., Indianapolis, Ind. Filed June 14, 1933.

"Like the Old Days"



For Lager Beer with Not More Than the Legal Alcoholic Content.
Claims use since May 26, 1933.

Ser. No. 338,876. "ORIGINAL PILSNER BEER" IMPORTING COMPANY, LIMITED, New York, N. Y. Filed June 15, 1933.

PRIOR

For Beer.
Claims use since 1900.

Ser. No. 339,011. WESTERN STATES GROCERY COMPANY, Oakland, Calif. Filed June 19, 1933.

BROWN



DERBY

For Beer.
Claims use since June 5, 1933.

Ser. No. 339,081. PREMIER-PABST CORPORATION, Peoria Heights, Ill. Filed June 21, 1933.

Old Maestro



The drawing is lined for shading only. The mark consists of the sobriquet and a representation of Ben Bernie, consent given.
For Beer of Not More Than Legal Alcoholic Content.
Claims use since May 27, 1933.

Ser. No. 339,117. PREMIER-PABST CORPORATION, Peoria Heights, Ill. Filed June 22, 1933.

Casino

For Beer of Not More Than Legal Alcoholic Content.
Claims use since May 31, 1933.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 337,592. GEO. BENZ & SONS, St. Paul, Minn. Filed May 8, 1933.

MALTESE



The drawing is lined for the color red which color is an essential feature of the mark.
For Gin.
Claims use since 1904.

Ser. No. 338,513. A. & A. CRAWFORD, Leith, Scotland. Filed June 5, 1933.



Crawford's

LIQUEUR

Special Reserve Blended Old Scotch Whisky

A. & A. Crawford

Leith, Scotland

PRODUCE OF SCOTLAND.

The signature "A. & A. Crawford" is in the handwriting of a member of the firm. No claim is made to the exclusive use of the words "Liqueur, Special Reserve Blended Old Scotch Whisky, Leith, Scotland", and "Produce of Scotland".
For Scotch Whisky.
Claims use since 1906.

Ser. No. 339,126. THE SHERWOOD DISTILLING & DISTRIBUTING CO., Baltimore, Md. Filed June 22, 1933.

FEDERAL

For Whisky.
Claims use since October, 1924.

Ser. No. 339,151. GILMOUR THOMSON & CO. LIMITED, Glasgow, Scotland. Filed June 23, 1933. Under 10-year proviso.

THE ROYAL BLEND

For Whiskey.
Claims use since March, 1875.

Ser. No. 339,282. RECORDS & GOLDSBOROUGH, Baltimore, Md. Filed June 27, 1933.

HAPPY DAYS

For Whiskey.
Claims use since July 19, 1900.

Ser. No. 339,283. RECORDS & GOLDSBOROUGH, Baltimore, Md. Filed June 27, 1933.

MELROSE

For Whiskey.
Claims use since 1875.

Ser. No. 339,284. RECORDS & GOLDSBOROUGH, Baltimore, Md. Filed June 27, 1933. Under 10-year proviso.

OLD JUDGE



For Whiskey.
Claims use since March, 1890.

Ser. No. 339,287. THE WEIDEMAN COMPANY, Cleveland, Ohio. Filed June 27, 1933.

OUR NUMBER

31

THIRTY ONE

For Whiskey.
Claims use since Jan. 1, 1906.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 339,108. WM. B. HOOPER & SONS CO., Baltimore, Md. Filed June 22, 1933.

EBONY

For Textile Fabrics in the Piece Treated with Waterproof, Acid Proof, Alkali Proof, Mildew Proof, and/or Fireproof Composition Intended to be Used in the Manufacture of Bags, Salvage Covers, Tarpaulins, and Similar Products.
Claims use since Feb. 15, 1933.

Ser. No. 339,149. COTTN MANUFACTURING CO., INC., New York, N. Y. Filed June 23, 1933.



FROG

For Fly Catchers.
Claims use since Feb. 21, 1933.

Ser. No. 339,153. JAY DEE PRODUCTS CO. INC., Brooklyn, N. Y. Filed June 23, 1933.

PINK WRAPS

For Sipping Straws.
Claims use since June 8, 1933.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 1, 1933

305,076. SOAPS, ABRASIVE PRODUCTS, ETC. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne, Germany.
Filed January 31, 1933. Serial No. 334,494. PUBLISHED MAY 16, 1933. Class 4.

305,077. KNITTED GOODS—NAMELY, SWEATERS, BATHING SUITS, MEN'S AND BOYS' COATS, CAPS, AND SUITS, AND WOMEN'S DRESSES. COLUMBIA KNITTING MILLS, Portland, Oreg.
Filed January 27, 1933. Serial No. 334,385. PUBLISHED MAY 9, 1933. Class 39.

305,078. CHROMIUM POLISH, AUTO TOP DRESSING AND CHEMICALLY TREATED UTILITY CLOTH USED FOR POLISHING. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed January 26, 1933. Serial No. 334,370. PUBLISHED MAY 16, 1933. Class 4.

305,079. PREPARATION FOR THE TREATMENT OF KIDNEY, DROPSY AND BLADDER DISEASES, AND SIMILAR AFFECTIONS. HENRY ALBERSMEIER, Newburgh, N. Y.
Filed January 24, 1933. Serial No. 334,277. PUBLISHED MAY 16, 1933. Class 6.

305,080. WOOL, WORSTED, ANGORA, COTTON, SILK, RAYON YARN, AND MIXTURES THEREOF. STEINBERGER BROS. INC., New York, N. Y.
Filed January 20, 1933. Serial No. 334,167. PUBLISHED MAY 9, 1933. Class 43.

305,081. BRASSIÈRES. DUNLOP RUBBER COMPANY, LIMITED, Birmingham, England.
Filed December 30, 1932. Serial No. 333,509. PUBLISHED MAY 9, 1933. Class 39.

305,082. ARSENIC-COMPOUNDS, BLUE VITRIOL, GREEN COPPERAS, LITHARGE. STAATLICH SÄCHSISCHE HÜTTEN-UND BLAUFARBENWERKE, Freiberg, Germany.
Filed December 27, 1932. Serial No. 333,413. PUBLISHED MAY 16, 1933. Class 6.

305,083. LEATHER, RUBBER, AND/OR FABRIC SHOES. I. SIMON COMPANY, New York, N. Y.
Filed December 21, 1932. Serial No. 333,249. PUBLISHED MAY 9, 1933. Class 39.

305,084. MILK CHOCOLATE. KLEIN CHOCOLATE COMPANY, Elizabethtown, Pa.
Filed November 9, 1932. Serial No. 332,008. PUBLISHED MAY 16, 1933. Class 46.

305,085. READY MIXED AND PAINT ENAMELS. NORFOLK PAINT & VARNISH CO., North Quincy, Mass.
Filed October 25, 1932. Serial No. 331,605. PUBLISHED MAY 16, 1933. Class 16.

305,086. COSMETIC PREPARATIONS. RUTH CREAMER, Glendale, Calif.
Filed October 11, 1932. Serial No. 331,144. PUBLISHED MAY 16, 1933. Class 6.

305,087. PAINT ENAMELS, VARNISHES, LACQUERS, ANDREW BROWN COMPANY, Los Angeles, Calif.
Filed August 30, 1932. Serial No. 329,978. PUBLISHED OCTOBER 25, 1932. Class 16.

305,088. MEDICINAL PREPARATIONS. JOSEPH A. PIUMA, doing business as Piuma's Italian Pharmacy, Los Angeles, Calif.
Filed July 11, 1932. Serial No. 328,701. PUBLISHED MAY 16, 1933. Class 6.

305,089. PRINTED BANDS FOR ENCIRCLING COMMODITIES, PRINTED WRAPPERS PRODUCED IN FLAT FORM AND ADAPTED TO BE WRAPPED ABOUT COMMODITIES AND PRINTED LABELS FOR APPLICATION TO COMMODITIES OR THE PACKAGES CONTAINING THE SAME, THE BASE STOCK THEREOF BEING REGENERATED CELLULOSE. FORBES LITHOGRAPH MANUFACTURING COMPANY, Chelsea, Mass.
Filed June 15, 1932. Serial No. 328,002. PUBLISHED MAY 16, 1933. Class 37.

305,090. THREAD AND YARN. I. P. BEMBERG AKTIENGESELLSCHAFT, Wuppertal-Oberbarmen, Germany, assignor to American Bemberg Corporation, New York, N. Y.
Filed May 2, 1932. Serial No. 326,662. PUBLISHED MAY 9, 1933. Class 43.

305,091. MEDICINAL AND TOILET SOAP. E. T. BROWNE DRUG CO., INC., New York, N. Y.
Filed April 7, 1932. Serial No. 325,866. PUBLISHED MAY 16, 1933. Class 4.

305,092. GRANULATED SOAP. NASSOUR BROS., INC., LTD., Los Angeles, Calif.
Filed March 31, 1933. Serial No. 336,294. PUBLISHED MAY 16, 1933. Class 4.

305,093. RAT POISON. BERNER & ZETTERSTRÖM AKTIEBOLAG, Gottenborg, Germany.
Filed March 31, 1933. Serial No. 336,252. PUBLISHED MAY 16, 1933. Class 6.

305,094. CLEANING, SCOURING, AND POLISHING WADS, PADS, ROLLS, AND CLOTHS OF ABRADANT NATURE. BRILLO MANUFACTURING COMPANY, INC., Brooklyn, N. Y.
Filed March 30, 1933. Serial No. 336,210. PUBLISHED MAY 16, 1933. Class 4.

305,095. POULTRY GRIT. MICA CRYSTAL COMPANY, Warren, N. H.
Filed March 27, 1933. Serial No. 336,127. PUBLISHED MAY 16, 1933. Class 1.

305,096. TOILET SOAP, STOVE POLISH, AND AUTO BODY CLEANER. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 15, 1933. Serial No. 335,696. PUBLISHED MAY 16, 1933. Class 4.

305,097. CREOLE SAUCE. R. C. WILLIAMS & CO., INC., New York, N. Y.
Filed March 16, 1933. Serial No. 335,756. PUBLISHED MAY 16, 1933. Class 46.

305,098. SOAP. FITZPATRICK BROS. INC., Chicago, Ill.
Filed March 20, 1933. Serial No. 335,860. PUBLISHED MAY 16, 1933. Class 4.

305,099. SOAP. FITZPATRICK BROS. INC., Chicago, Ill.
Filed March 20, 1933. Serial No. 335,861. PUBLISHED MAY 16, 1933. Class 4.

305,100. DRY, PASTE, AND READY-MIXED PAINTS; PAINT ENAMELS, VARNISHES, LACQUERS, AND PAINT PRIMERS. THE AULT & WIBORG VARNISH WORKS, INC., New York, N. Y.
Filed March 23, 1933. Serial No. 335,980. PUBLISHED MAY 16, 1933. Class 16.

305,101. DRY, PASTE, AND READY-MIXED PAINTS; PAINT ENAMELS, VARNISHES, LACQUERS, AND PAINT PRIMERS. THE AULT & WIBORG VARNISH WORKS, INC., New York, N. Y.
Filed March 23, 1933. Serial No. 335,981. PUBLISHED MAY 16, 1933. Class 16.

305,102. DRY, PASTE, AND READY-MIXED PAINTS; PAINT ENAMELS, VARNISHES, LACQUERS, AND PAINT PRIMERS. THE AULT & WIBORG VARNISH WORKS, INC., New York, N. Y.
Filed March 23, 1933. Serial No. 335,982. PUBLISHED MAY 16, 1933. Class 16.

305,103. DRY, PASTE, AND READY-MIXED PAINTS, PAINT ENAMELS, VARNISHES, LACQUERS, AND PAINT PRIMERS. THE AULT & WIBORG VARNISH WORKS, INC., New York, N. Y.
Filed March 23, 1933. Serial No. 335,983. PUBLISHED MAY 16, 1933. Class 16.

305,104. DRY, PASTE, AND READY-MIXED PAINTS, PAINT ENAMELS, VARNISHES, LACQUERS, AND PAINT PRIMERS. THE AULT & WIBORG VARNISH WORKS, INC., New York, N. Y.
Filed March 23, 1933. Serial No. 335,984. PUBLISHED MAY 16, 1933. Class 16.

305,105. DRY, PASTE, AND READY-MIXED PAINTS, PAINT ENAMELS, VARNISHES, LACQUERS, AND PAINT PRIMERS. THE AULT & WIBORG VARNISH WORKS, INC., New York, N. Y.
Filed March 23, 1933. Serial No. 335,985. PUBLISHED MAY 16, 1933. Class 16.

305,106. TOILET PAPER. NORTHERN PAPER MILLS, Green Bay, Wis.
Filed March 31, 1933. Serial No. 336,295. PUBLISHED MAY 16, 1933. Class 37.

305,107. PRINTED FORMS SOLD TO THE TRADE AS SUCH. JACOB COHEN, doing business as Laundrigraph Company, New York, N. Y.
Filed April 1, 1933. Serial No. 336,319. PUBLISHED MAY 16, 1933. Class 38.

305,108. TOILET CREAMS. SINCERA RESEARCH, INC., New York, N. Y.
Filed April 3, 1933. Serial No. 336,377. PUBLISHED MAY 23, 1933. Class 6.

305,109. FOUNTAIN PENS AND PENCILS. LOUIS MORRISON, New York, N. Y.
Filed April 6, 1933. Serial No. 336,508. PUBLISHED MAY 16, 1933. Class 37.

305,110. MAGAZINE PUBLISHED MONTHLY AND AT OTHER INTERVALS. MAGAZINE PUBLISHERS, INC., New York, N. Y.
Filed April 6, 1933. Serial No. 336,522. PUBLISHED MAY 16, 1933. Class 38.

305,111. PHOTOGRAPHS AND PHOTOGRAPHIC PORTRAITS. THE GOLD-O-GRAF COMPANY OF AMERICA, Baltimore, Md.
Filed April 7, 1933. Serial No. 336,527. PUBLISHED MAY 16, 1933. Class 38.

305,112. STEAK SANDWICHES AND PREPARED SANDWICHES. MARIUM N. STOUTENBURG, doing business as Stakwich Company, Lansing, Mich.
Filed March 14, 1933. Serial No. 335,652. PUBLISHED MAY 16, 1933. Class 46.

305,113. MEDICINAL PREPARATIONS FOR THE TREATMENT OF COLDS, ETC. EDWARD J. DISTER, doing business as Cura Cold Capsule Co., Kentland, Ind.
Filed February 13, 1933. Serial No. 334,913. PUBLISHED MAY 16, 1933. Class 6.

305,114. CANDY. JOHN D. WATTS, doing business as American Boy Candy Company, Detroit, Mich.
Filed March 14, 1933. Serial No. 335,656. PUBLISHED MAY 16, 1933. Class 46.

305,115. PARCHMENT PAPER, WRITING PAPER, BOND PAPER, ETC. REA RETA PAPER COMPANY, INC., New York, N. Y.
Filed March 15, 1933. Serial No. 335,687. PUBLISHED MAY 16, 1933. Class 37.

305,116. GLASS CLEANSER. COLE AND BECKER, Pasadena, Calif.
Filed March 14, 1933. Serial No. 335,681. PUBLISHED MAY 16, 1933. Class 4.

305,117. SEWING THREAD AND YARN. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 3, 1933. Serial No. 335,492. PUBLISHED MAY 9, 1933. Class 43.

305,118. THREAD. THE UNION THREAD COMPANY, Cincinnati, Ohio.
Filed February 23, 1933. Serial No. 335,242. PUBLISHED MAY 9, 1933. Class 43.

305,119. COFFEE-URN PURIFIER AND CARBON REMOVER. PUR-URN LABORATORIES, Milwaukee, Wis.
Filed February 25, 1933. Serial No. 335,291. PUBLISHED MAY 16, 1933. Class 6.

305,120. SPOOLS, OR REELS OF SEWING THREAD. UNCAS SILK COMPANY, New York, N. Y.
Filed February 8, 1933. Serial No. 334,781. PUBLISHED MAY 16, 1933. Class 43.

305,121. HOUSEHOLD RUBBER GLOVES. AMERICAN ANODE INC., Akron, Ohio.
Filed March 1, 1933. Serial No. 335,385. PUBLISHED MAY 9, 1933. Class 39.

305,122. CHEMICAL EMPLOYED AS A SAFETY RINSE IN LAUNDERING. PUBLICKER RESEARCH & DEVELOPMENT CO., INC., Philadelphia, Pa.
Filed February 23, 1933. Serial No. 335,211. PUBLISHED MAY 16, 1933. Class 6.

305,123. KNITTED FOOTWEAR INCLUDING KNITTED SHOES, SLIPPERS, MULES, FOOT WARMERS, AND SIMILAR KNITTED FOOTWEAR OF THE SHOE OR SLIPPER TYPE, WITH INCOMPLETE SOLES, WITH COMPLETE SOLES, AND WITHOUT SOLES. RELIABLE KNITTING WORKS, Milwaukee, Wis.
Filed February 23, 1933. Serial No. 335,214. PUBLISHED MAY 9, 1933. Class 39.

305,124. PRINTS PREPARED ON LIGHT-SENSITIVE COPYING OR PHOTOGRAPHIC PAPER. KALLE & CO. AKTIENGESELLSCHAFT, Wiesbaden-Biebrich, Germany.
Filed February 11, 1933. Serial No. 334,874. PUBLISHED MAY 16, 1933. Class 38.

305,125. CHILDREN'S SHOES OF LEATHER, RUBBER, AND FABRIC, AND COMBINATIONS THEREOF. W. T. GRANT COMPANY, New York, N. Y.
Filed February 9, 1933. Serial No. 334,797. PUBLISHED MAY 9, 1933. Class 39.

305,126. LIQUID AND PASTE PAINTS, PAINT PRIMERS, PAINT ENAMELS AND LACQUERS, VARNISHES. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed February 24, 1933. Serial No. 335,477. PUBLISHED MAY 16, 1933. Class 16.

305,127. THREAD AND YARN OF ARTIFICIAL ORIGIN, MORE PARTICULARLY YARN POSSESSING A DULL OR LOW LUSTER. AMERICAN BEMBERG CORPORATION, New York, N. Y.
Filed February 28, 1933. Serial No. 335,343. PUBLISHED MAY 9, 1933. Class 43.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

305,128. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) THE SHERWOOD DISTILLING & DISTRIBUTING Co., Baltimore, Md. Filed June 20, 1933. Serial No. 339,045.

HIGHSPIRE

For Whisky.
Claims use since October, 1924.

305,129. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) THE SHERWOOD DISTILLING & DISTRIBUTING Co., Baltimore, Md. Filed June 20, 1933. Serial No. 339,046.

PIKESVILLE

For Whisky.
Claims use since October, 1924.

305,130. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) THE SHERWOOD DISTILLING & DISTRIBUTING Co., Baltimore, Md. Filed June 22, 1933. Serial No. 339,125.

DILLINGER

For Whisky.
Claims use since October, 1924.

305,131. (CLASS 38. PRINTS AND PUBLICATIONS.) BRIDGE PUBLICATIONS, INC., Pittsburgh, Pa. Filed May 26, 1933. Serial No. 338,243.

SELF-TEACHER

For Publication Issued from Time to Time.
Claims use since May 2, 1932.

305,132. (CLASS 39. CLOTHING.) BERKSHIRE KNITTING MILLS, Wyomissing, Reading, Pa. Filed June 10, 1933. Serial No. 338,715.

BERKSHIRE

For Hosiery.
Claims use since Apr. 4, 1925.

305,133. (CLASS 39. CLOTHING.) BERKSHIRE KNITTING MILLS, Wyomissing, Reading, Pa. Filed June 10, 1933. Serial No. 338,716.

BERKSHIRE STOCKINGS

For Hosiery.
Claims use since Apr. 4, 1925.

305,134. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANTONIO N. CHRISTIANO, Mount Carmel, Pa. Filed July 1, 1932. Serial No. 328,478.

ANTONIO NICOLA CHRISTIANO



OVEN BAKED HAM

For Preserved Ham.
Claims use since Apr. 8, 1932.

305,135. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) TRANSUE & WILLIAMS STEEL FORGING CORPORATION, Wilmington, Del., and Alliance, Ohio. Filed Nov. 10, 1931. Serial No. 320,994.

TONWATE

For Truck Casters.
Claims use since Oct. 13, 1931.

305,136. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) B. B. & R. KNIGHT CORPORATION, Providence, R. I. Filed Jan. 26, 1932. Serial No. 323,458.

ALGODÓN SWISS

For Cloth in the Piece Made All or in Part of Worsted, Wool, Mohair, Camel's Hair, Alpaca, Silk, Rayon, Cotton.
Claims use since Nov. 16, 1931.

305,137. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) COLUMBUS MCKINNON CHAIN CORPORATION, Tonawanda, N. Y. Filed Apr. 29, 1932. Serial No. 326,605.

TWIN-EMERGENCY

For Tire Chains.
Claims use since Feb. 20, 1932.

305,138. (CLASS 17. TOBACCO PRODUCTS.) MORRIS & FISHER, St. Petersburg, Fla. Filed May 14, 1932. Serial No. 327,118.

MATCHLESS

For Cigarettes.
Claims use since May 2, 1932.

305,139. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BUCKLEY & COHEN, New York, N. Y. Filed June 8, 1932. Serial No. 327,817.

TRU-WOOL

For Woolen Piece Goods.
Claims use since May 18, 1932.

305,140. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. & A. SCLAFANI, INC., New York, N. Y. Filed Oct. 11, 1932. Serial No. 331,165.

D'ANNUNZIO

For Canned Vegetables and Olive Oil.
Claims use since Jan. 28, 1932.

305,141. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) ALFRED DUNHILL OF LONDON, INC., New York, N. Y. Filed July 15, 1932. Serial No. 328,811.

"Popup"

For Cigar and Cigarette Cases.
Claims use since June 15, 1932.

305,142. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TUCAPAU MILLS, Tucapau, S. C. Filed Dec. 3, 1932. Serial No. 332,740.

COATBASE

For Piece Goods of Jute and Cotton or of Linen.
Claims use since Nov. 12, 1930.

TRADE-MARK REGISTRATIONS RENEWED

40,045. PERFUMED PREPARATIONS IN POWDERED, PASTE, SOLID, AND LIQUID FORMS. Registered April 7, 1903. VICTOR KLOTZ, Paris, France, and New York, N. Y. Renewed April 7, 1933, to Pinaud Inc., New York, N. Y., a Corporation of New York, successor.

40,464. WINDMILLS. Registered May 26, 1903. STOVER MANUFACTURING COMPANY. Renewed May 26, 1933, to Stover Manufacturing & Engine Co., Freeport, Ill., a Corporation of Illinois, successor.

40,572. DELFTWARE AND CHINAWARE. Registered June 9, 1903. AKTIESELSKABET ALUMINIA. Renewed June 9, 1933, to Aktieselskabet Fajancefabriken Aluminia, Copenhagen, Denmark, a Corporation of Denmark, successor.

40,649. EGGS. Registered June 23, 1903. DEBOW & Co., Newark, N. J., a Corporation of New Jersey. Renewed June 23, 1933.

40,681. COD LIVER OIL. Registered June 30, 1903. PEDER DEVOLD, Aalesund, Norway. Renewed June 30, 1933, to Peder Devold Oil Company, Inc., New York, N. Y., a Corporation of New York, assignee.

41,223. RUM. Registered October 6, 1903. FELTON & SON, Boston, Mass. Renewed October 6, 1933, to Felton & Son, Incorporated, Boston and South Boston, Mass., a Corporation of Massachusetts, successor.

41,413. A LIQUID CHEMICAL OR MEDICAL PREPARATION FOR CERTAIN NAMED PURPOSES. Registered November 3, 1903. LAMBERT PHARMACAL COMPANY, St. Louis, Mo. Renewed November 3, 1933, to Lambert Pharmacal Company, Wilmington, Del., a Corporation of Delaware, assignee.

41,440. MEDICINAL PREPARATIONS FOR CERTAIN NAMED DISEASES. Registered November 10, 1903. J. D. RIEDEL, Berlin, Germany. Renewed November 10, 1933, to Riedel & Co. Inc., Brooklyn, N. Y., a Corporation of New York, assignee, by mesne assignments.

41,658. GUIDE BOOKS AND ILLUSTRATED SOUVENIRS. Registered December 15, 1903. PACIFIC COAST STEAMSHIP COMPANY, San Francisco, Calif. Renewed December 15, 1933, to Pacific Coast Steamship Company, Seattle, Wash., a Corporation of California.

68,629. CERTAIN TOILET PREPARATIONS. Registered April 21, 1908. F. WOLFF & SOHN. Renewed April 21, 1928, to Karlsruher Parfumerie- und Toilette-Seifen-Fabrik F. Wolff & Sohn Gesellschaft mit beschrankter Haftung Karlsruhe, Germany, a Corporation of Germany, assignee.

91,996. METAL CAPS, STOPPERS, AND COVERS FOR JARS, CANS, BOTTLES, AND RECEPTACLES. Registered June 10, 1913. PARAGON METAL CAP CO., New York, N. Y. Renewed June 10, 1933, to Anchor Cap & Closure Corporation, Long Island City, N. Y., a Corporation of New York, successor.

92,013. LUMBER, FLOORING, SIDING AND SHINGLES. Registered June 10, 1913. THE TRANSFER LUMBER & SHINGLE CO. Renewed June 10, 1933, to Charles H. Fitch and William C. Fisher, as assignee for the benefit of the Creditors of Weatherbest Stain Shingle Co., Inc., North Tonawanda, New York, assignees.

92,038. ICE-CREAM. Registered June 17, 1913. BORDEN'S CONDENSED MILK CO. Renewed June 17, 1933, to The Borden Company, New York, N. Y., a Corporation of New Jersey, by change of name.

92,079. CONDENSED MILK. Registered June 17, 1913. IMPERIAL CONDENSED MILK COMPANY, Seattle, Washington, a Corporation of Washington. Renewed June 17, 1933.

92,825. CERTAIN NAMED CUTLERY, TOOLS AND PARTS THEREOF. Registered July 1, 1913. FRIEDR. DICK. Renewed July 1, 1933, to Paul Dick, doing business as Paul F. Dick, Esslingen, Germany, successor.

92,829. WHEAT-FLOUR. Registered July 1, 1913. WILLIAM B. FAIR, Key West, Florida. Renewed July 1, 1933, to W. B. Fair Export Corporation, New York, N. Y., a Corporation of New York, assignee.

92,835. FLUSH-VALVES MADE PRINCIPALLY OF RUBBER. Registered July 1, 1913. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio. Renewed July 1, 1933, to The B. F. Goodrich, New York, N. Y., a Corporation of New York.

92,550. CERTAIN NAMED CITRUS FRUITS. Registered July 15, 1913. FORT MYERS CITRUS GROWERS ASSOCIATION. Renewed July 15, 1933, to George Kingston, Fort Myers, Florida, assignee.

92,697. TEAS. Registered July 22, 1913. GEORGE T. MATTHEWS & Co. Renewed July 22, 1933, to George T. Matthews, doing business as George T. Matthews & Co., New York, N. Y., successor.

92,732. A CERTAIN PHARMACEUTICAL PRODUCT, SUITABLE AS A SUBSTITUTE FOR IODOFORM. Registered July 22, 1913. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland, a Corporation of Switzerland. Renewed July 22, 1933.

93,147. SELF-CONTAINED FLOUR-MILLS. Registered August 26, 1913. ANGLO-AMERICAN MILLS CO. Renewed August 26, 1933, to Anglo-American Mill Company, Owensboro, Kentucky, a Corporation of Delaware, successor.

93,541. LIQUEURS. Registered September 23, 1913. LA UNION AGRICOLA SOCIEDAD ANONIMA, Barcelona, Spain, a Corporation of Spain. Renewed September 23, 1933.

93,542. LIQUEURS. Registered September 23, 1913. LA UNION AGRICOLA SOCIEDAD ANONIMA, Barcelona, Spain, a Corporation of Spain. Renewed September 23, 1933.

93,543. LIQUEURS. Registered September 23, 1913. LA UNION AGRICOLA SOCIEDAD ANONIMA, Barcelona, Spain, a Corporation of Spain. Renewed September 23, 1933.

93,544. LIQUEURS. Registered September 23, 1913. LA UNION AGRICOLA SOCIEDAD ANONIMA, Barcelona, Spain, a Corporation of Spain. Renewed September 23, 1933.

93,546. LIQUEURS. Registered September 23, 1913. LA UNION AGRICOLA SOCIEDAD ANONIMA, Barcelona, Spain, a Corporation of Spain. Renewed September 23, 1933.

93,673. MACHINE-MADE LINEN LACES. Registered October 14, 1913. BIRKIN & Co. Renewed October 14, 1933, to Birkin & Company, Limited, Nottingham, England, a Corporation of Great Britain, assignee.

94,378. CAPSICUM, ALMOND-MEAL, TURMERIC, CUDBEAR, AND DRAGON'S-BLOOD. Registered December 2, 1913. J. L. HOPKINS & Co., New York, N. Y., a Corporation of New York. Renewed December 2, 1933.

94,446. SALVES AND OINTMENTS. Registered December 9, 1913. HAAREB & SONS, Ann Arbor, Mich., a Firm. Renewed December 9, 1933.

94,449. SOAP POWDER FOR SCOURING AND CLEANING PURPOSES. Registered December 9, 1913. THE HOLBROOK MFG. CO., Jersey City, N. J., a Corporation of New Jersey. Renewed December 9, 1933.

94,479. DRY CELLS, BRUSHES FOR DYNAMO-ELECTRIC MACHINES, AND ARC-LIGHT CARBONS. Registered December 9, 1913. NATIONAL CARBON COMPANY, Cleveland, Ohio. Renewed December 9, 1933, to National Carbon Company, Inc., New York, N. Y., a Corporation of New York, assignee.

94,480. DRY CELLS. Registered December 9, 1913. NATIONAL CARBON COMPANY, Cleveland, Ohio. Renewed December 9, 1933, to National Carbon Company, Inc., New York, N. Y., a Corporation of New York, assignee.

94,645. PIPES. Registered December 23, 1913. THE KLINGENSTEIN CO., Los Angeles, Calif., a Corporation of California. Renewed December 23, 1933.

LABELS

REGISTERED AUGUST 1, 1933

42,449.—*Title:* FELDMAN'S NUSOY. For Bread. AMERICAN SOYA PRODUCTS CORPORATION, Evansville, Ind. Published February 28, 1933.

42,450.—*Title:* FELTMAN AND CURME. For Shoes. BIRD & SON, INC., East Walpole, Mass. Published June 1, 1933.

42,451.—*Title:* GIRL SCOUT OFFICIAL SHOE. For Shoes. BIRD & SON, INC., East Walpole, Mass. Published June 1, 1933.

42,452.—*Title:* ROK THE STONE HARD PLASTER. For Plaster for Making Dental and Like Models. THE L. D. CAULK COMPANY, Milford, Del. Published April 13, 1933.

42,453.—*Title:* FREIHOFER'S 100% WHOLE WHEAT. For Bread. WM. FREIHOFER BAKING COMPANY, Philadelphia, Pa. Published April 10, 1933.

42,454.—*Title:* BUTTER KRUST. For Bread. WM. FREIHOFER BAKING CO., Philadelphia, Pa. Published June 19, 1933.

42,455.—*Title:* WORLD FAIR BREAD. For Bread. J. W. HALEY, Indianapolis, Ind. Published June 27, 1933.

42,456.—*Title:* SUNSHINE CUPS. For Paper Drinking Cups. HERZ CUP COMPANY, INCORPORATED, New York, N. Y. Published May 26, 1933.

42,457.—*Title:* HILLITE. For Athlete's Foot. DARRELL HILL, Baltimore, Md. Published June 28, 1933.

42,458.—*Title:* NITEBILT. For Night Gowns and Pajamas. L. & C. MFG. CO., New York, N. Y. Published February 6, 1933.

42,459.—*Title:* GOLD-SPAR FLAT OIL PAINT. For Paint. LOUIS LEAVITT CORPORATION, Brooklyn, N. Y. Published January 3, 1933.

42,460.—*Title:* CODEE COUGH SYRUP. For Cough Syrup. MAX LERNER, Jackson Heights, N. Y. Published December 15, 1932.

42,461.—*Title:* FOOT HEALTH HEADQUARTERS MODERN ORTHOPEDIC FOOTWEAR. For Footwear. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 3, 1933.

42,462.—*Title:* A B C. For Bathroom Tissue. A. W. MENDENHALL COMPANY, Kansas City, Mo., and Chicago, Ill. Published June 1, 1933.

42,463.—*Title:* KATZ SIXTH AVENUE NEW YORK SMART SHOES. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published January 15, 1933.

42,464.—*Title:* FLOYD SHOES. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 1, 1933.

42,465.—*Title:* CROSBY SHOES. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 2, 1933.

42,466.—*Title:* BEST BEAUTIFUL SHOES, BEST SHOE CO. BOSTON. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 3, 1933.

42,467.—*Title:* VANITY BOOT SHOP INC. CUSTOMODE SHOES. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 3, 1933.

42,468.—*Title:* M. J. SAKS SHOE CORP NEW YORK SMART SHOES. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 3, 1933.

42,469.—*Title:* GOLO SMART SHOES. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 3, 1933.

42,470.—*Title:* ARNOLD CONSTABLE. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 3, 1933.

42,471.—*Title:* MARY ANN STAR SHOES. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 3, 1933.

42,472.—*Title:* CRESCENT BEAUTIFUL SHOES. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 9, 1933.

42,473.—*Title:* CRESCENT MODERN VOGUE EXQUISITE SHOES. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 9, 1933.

42,474.—*Title:* MARLENE MODERN MODES, THE T-S SMART SHOES. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 8, 1933.

42,475.—*Title:* KITTY KELLY BEAUTIFUL SHOES HOSIERY TO MATCH. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 9, 1933.

42,476.—*Title:* BROOKLYN MAID SMART STYLE. NU WAY SHOE CO., NEW YORK ALWAYS SOMETHING NU. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 9, 1933.

42,477.—*Title:* MERCHANTS SHOES, BOSTON STYLE QUALITY. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 9, 1933.

42,478.—*Title:* MARY JANE M J HOSIERY TO MATCH. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 9, 1933.

42,479.—*Title:* STRAWBRIDGE & CLOTHIER FINE SHOES. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 9, 1933.

42,480.—*Title:* LAZARUS FRIED & SONS INC., NEW YORK SNAPPY STYLES FOR THE SMART "LA PARISIENNE". For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 9, 1933.

42,481.—*Title:* SMART SHOES. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 9, 1933.

42,482.—*Title:* JAY BEE STYLES PERSONALITY SHOES "A THRILL IN EVERY STEP". For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 9, 1933.

42,483.—*Title:* THE JACOBSON BROS. EXQUISITE FOOTWEAR INC. For Shoes. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 20, 1933.

42,484.—*Title:* REAL SILK. For Socks. REAL SILK HOSIERY MILLS, INC., Indianapolis, Ind. Published February 1, 1933.

42,485.—*Title:* WINES OF OLD SAN GABRIEL. For Wine. SAN GABRIEL VINEYARD COMPANY, San Gabriel, Calif. Published May 20, 1933.

42,486.—*Title:* SCHEUER'S BETTY CROCKER SUNSHINE. For Cake. GEORGE SCHEUER, INCORPORATED, Scranton, Pa. Published May 27, 1933.

42,487.—*Title:* IT THE MAGIC CLEANER. For Cleaning Powder. LEE R. SHRINER, doing business as Defiance Products Company, Huntington Park, Calif. Published May 6, 1933.

42,488.—*Title:* VICTORY BOBS. For Hair Pins. SMITH & SONS CORPORATION, Buffalo, N. Y. Published May 8, 1933.

42,489.—*Title:* FLEISCHMANN'S. For Irradiated Dry Yeast for Dogs and Other Animals. STANDARD BRANDS INCORPORATED, New York, N. Y. Published May 2, 1933.

42,490.—*Title:* DR. STEMPEL'S TOOTHACHE PLASTERS—STOP THAT TOOTHACHE. For Toothache Plasters. STEMPEL SPECIALTY COMPANY, Fort Madison, Iowa. Published May 12, 1933.

42,491.—*Title:* STROEHMANN'S BETTY CROCKER ORANGE LAYER. For Cake. STROEHMANN BROTHERS COMPANY, Harrisburg, Pa. Published June 8, 1933.

42,492.—*Title:* BEL SOLE. For Olive Oil. S. E. TAMBURO, doing business as The Savarese Company, Pittsburgh, Pa. Published April 8, 1933.

42,493.—*Title:* VORTEX TWINKLES. For Paper Cups. VORTEX CUP COMPANY, Chicago, Ill. Published February 28, 1933.

42,494.—*Title:* BLUE-SEALEX. For Petroleum Jelly. WESTERN PETROLEUM COMPANY, Philadelphia, Pa. Published June 1, 1933.

LABELS RENEWED

12,295. "PYRAMID CREAM CORN". For Canned Corn. Registered August 1, 1905. THE UNITED STATES PRINTING Co., Brooklyn, N. Y. Renewed August 1, 1933, to The United States Printing & Lithograph Company, Norwood, Cincinnati, Ohio, a Corporation of Ohio, by change of name.

12,296. NORTHERN QUEEN SUGAR CORN. For Canned Corn. Registered August 1, 1905. THE UNITED STATES PRINTING Co., Brooklyn, N. Y. Renewed August 1, 1933, to The United States Printing & Lithograph Company, Norwood, Cincinnati, Ohio, a Corporation of Ohio, by change of name.

PRINTS

REGISTERED AUGUST 1, 1933

14,281.—*Title:* BETTY BRIGHT. For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published June 18, 1933.

14,282.—*Title:* IMPORTANT. For Depilatory. HERZ LABORATORIES, INC., New York, N. Y. Published January 15, 1933.

14,283.—*Title:* NEKO. For Germicidal Soap. PARKE, DAVIS & COMPANY, Detroit, Mich. Published June 2, 1933.

14,284.—*Title:* MINERAL OIL. For Mineral Oil. PARKE, DAVIS & COMPANY, Detroit, Mich. Published June 2, 1933.

14,285.—*Title:* WORM CAPSULES. For Worm Capsules for Animals. PARKE, DAVIS & COMPANY, Detroit, Mich. Published June 2, 1933.

14,286.—*Title:* HYDROGEN PEROXIDE. For Hydrogen Peroxide. PARKE, DAVIS & COMPANY, Detroit, Mich. Published June 2, 1933.

14,287.—*Title:* 500 TIMES SWEETER THAN SUGAR. For Saccharin Tablets. PARKE, DAVIS & COMPANY, Detroit, Mich. Published June 2, 1933.

14,288.—*Title:* STOP COUGHING. For Medicated Throat Discs. PARKE, DAVIS & COMPANY, Detroit, Mich. Published June 2, 1933.

14,289.—*Title:* MILK OF MAGNESIA. For Milk of Magnesia. PARKE, DAVIS & COMPANY, Detroit, Mich. Published June 2, 1933.

14,290.—*Title:* COD-LIVER OIL. For Cod-Liver Oil. PARKE, DAVIS & COMPANY, Detroit, Mich. Published June 2, 1933.

14,291.—*Title:* HALIVER OIL. For Haliver Oil. PARKE, DAVIS & COMPANY, Detroit, Mich. Published June 2, 1933.

14,292.—*Title:* STOP THAT TOOTHACHE—DR. STEMPEL'S TOOTHACHE PLASTERS. For Toothache Plasters. STEMPEL SPECIALTY CO., Fort Madison, Iowa. Published May 12, 1933.

14,293.—*Title:* FLORA McLELLAND HEALTH FOODS. For Health Foods. FLORA McLELLAND, Detroit, Mich. Published November 14, 1932.

REISSUES

AUGUST 1, 1933

18,905
BAG

Henry H. Allen, Huntington Bay, N. Y., assignor to Bemis Bro. Bag Company, St. Louis, Mo., a Corporation of Missouri

Original No. 1,795,417, dated March 10, 1931, Serial No. 443,669, April 12, 1930. Application for reissue March 27, 1933. Serial No. 664,264

6 Claims. (Cl. 150—1.)



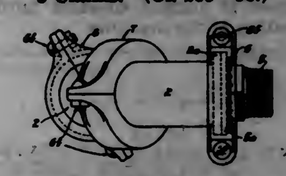
1. A bag formed of open mesh, woven fabric and a drawstring which constitutes a woven strand of said fabric, said drawstring being interwoven with substantially all of the strands of the fabric which extend transversely with respect thereto.

18,906
FLEXIBLE METALLIC COUPLING

Charles W. McGuirk, Albany, N. Y., assignor to Barco Manufacturing Co., Chicago, Ill., a Corporation of Illinois

Original No. 1,756,094, dated April 29, 1930, Serial No. 380,735, May 6, 1929. Application for reissue February 8, 1933. Serial No. 591,716

5 Claims. (Cl. 285—96.)



4. In combination, a pair of pipe sections arranged in end to end relation and terminating in annular outwardly directed flanges, a sleeve partly received in the abutting ends of said pipe sections, resilient packing rings interposed between said sleeve and the ends of the adjacent pipe sections, said rings being locked against axial movement relatively to one and out of locking engagement with respect to the other of said pipe sections and sleeve, and means cooperating with said flanges for holding the pipe sections associated for relative rotation while preventing axial separation.

18,907
TRICALCIUM PHOSPHATE AND ALUMINUM PHOSPHATE COMPOSITION SALT FILLER

William George Warning and Theodore William Schilb, St. Louis, Mo., assignors to Swann Research, Inc., a Corporation of Alabama

No Drawing. Original No. 1,865,723, dated July 5, 1932, Serial No. 390,266, September 3, 1929. Application for reissue April 15, 1933. Serial No. 666,323

10 Claims. (Cl. 23—243.)

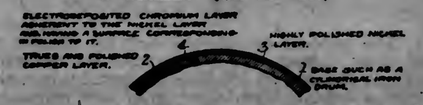
1. A dry salt containing a filler consisting of tri-calcium phosphate with aluminum phosphate in excess of 4%, the amount of said filler in said salt being sufficient to prevent caking and not in excess of 1% of the salt.

18,908
FILM FORMING ELEMENT

Henry E. Van Derhoef, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York

Original No. 1,746,751, dated February 11, 1930, Serial No. 51,640, August 21, 1925. Application for reissue February 9, 1932. Serial No. 591,887

8 Claims. (Cl. 18—15.)



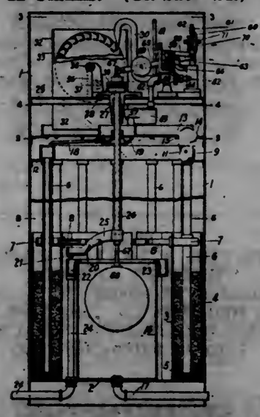
8. An article of manufacture comprising a ferrous foundation metal, a layer of copper deposited thereon, a layer of nickel deposited upon the copper layer and a layer of chromium deposited upon the nickel layer.

18,909
WATER SOFTENING APPARATUS

Edward T. Turner, Dayton, Ohio

Original No. 1,763,727, dated June 17, 1930, Serial No. 42,453, July 9, 1925. Application for reissue June 15, 1933. Serial No. 676,023

41 Claims. (Cl. 210—24.)



36. In a water softening apparatus adapted to maintain a continuous supply of softened water, a container for a bed of water softening material, a supply conduit communicating with said container on one side of said bed of material during all operative periods of said apparatus, a service conduit receiving softened water discharged from said container on the other side of said bed of material, means for delivering hard water and regenerating solution to said supply conduit, a motor energized in response to a withdrawal of softened water through said service conduit, and means operated and controlled by said motor for causing wash water to be delivered by said delivery means to said container through said supply conduit for an interval determined by the rate of continued operation of said motor during the delivery of said wash water.

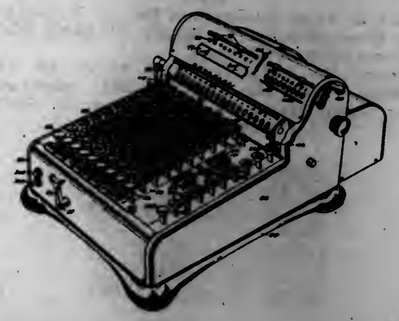
18,910
PROCESS FOR COLORING TOY BALLOONS
John C. Gibson, Willard, Ohio, assignor to The Pioneer Rubber Company, Willard, Ohio, a Corporation of Ohio
Original No. 1,720,594, dated July 9, 1929, Serial No. 258,867, March 3, 1928. Application for reissue June 26, 1931. Serial No. 546,988
4 Claims. (Cl. 8—5.)



4. The process of coloring articles formed of thin sheet rubber which comprises haphazardly bundling the articles to cause the bundles to make irregular contact with each other and introducing the bundles into a rubber coloring material and withdrawing the bundles from the rubber coloring material and drying the articles.

18,911
CALCULATING MACHINE
Carl M. F. Friden, Piedmont, Calif., assignor to Marchant Calculating Machine Company, Emeryville, Calif., a Corporation of California
Original No. 1,643,710, dated September 27, 1927, Serial No. 693,546, February 18, 1924. Application for reissue September 14, 1929. Serial No. 392,564
120 Claims. (Cl. 235—82)

1. In a power driven calculating machine, numeral wheels a reversible rotary actuator therefor, means for introducing one factor of the calculation into the actuator, keys for introducing the second factor into the machine, and means operated by the depression of one of said keys for causing the actuator to rotate to effect the calculation represented by the value of the depressed key.



61. In a motor driven calculating machine, numeral wheels, a rotary actuator therefor, a revolution counter, an actuator therefor, operable in time with said first actuator, a positive sign key for controlling the rotation of the actuator in a positive direction, a negative sign key for controlling the rotation of the actuator in a reverse or negative direction, and means settable to effect rotation of the revolution counter actuator like or unlike the sign of either key.

93. In a calculating machine having a rotatable actuator, means for delimiting movement of said actuator while permitting movement thereof within full-cycle position and a manual control for said means, said delimiting means being adapted to remain effective until subsequent operation of the machine.

DESIGNS

AUGUST 1, 1933

90,395
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Marcel Christen, Woodside, N. Y., assignor to Cohn Hall Marx Co., New York, N. Y.
Application June 21, 1933. Serial No. 48,481
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown.

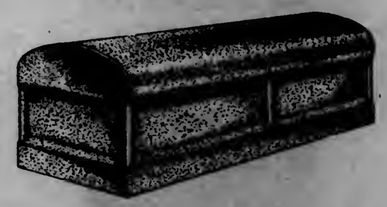
90,396
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Marcel Christen, Woodside, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application June 27, 1933. Serial No. 48,551
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown.

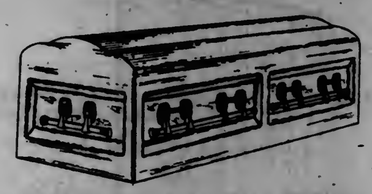
CARNEGIE LIBRARY OF ATLANTA

90,397
DESIGN FOR A BURIAL VAULT
Harry Cohen, Galion, Ohio, assignor to The Perfection Steel Body Company, Galion, Ohio, a Corporation
Application June 5, 1933. Serial No. 48,278
Term of patent 14 years



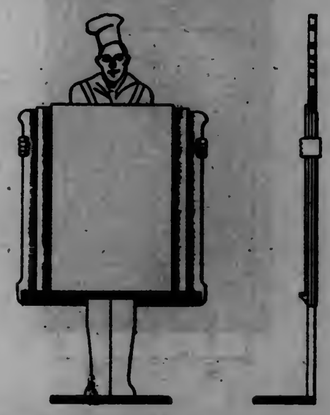
The ornamental design for a burial vault, substantially as shown.

90,398
DESIGN FOR A BURIAL VAULT
Harry Cohen, Galion, Ohio, assignor to The Perfection Steel Body Company, Galion, Ohio, a Corporation
Application June 5, 1933. Serial No. 48,277
Term of patent 14 years



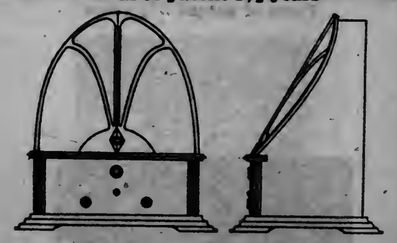
The ornamental design for a burial vault, substantially as shown.

90,399
DESIGN FOR A SIGN STANDARD
Arthur J. Coon, Providence, R. I.
Application May 15, 1933. Serial No. 48,123
Term of patent 7 years



The ornamental design for a sign standard, substantially as shown.

90,400
DESIGN FOR A RADIO CABINET
Oren Oneal Cummings, Farmerville, La.
Application May 23, 1933. Serial No. 48,192
Term of patent 3½ years



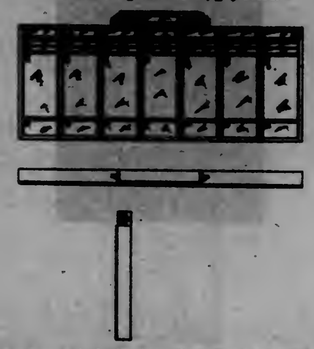
The ornamental design for a radio cabinet, as shown.

90,401
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Sylvain Cassou, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application June 27, 1933. Serial No. 48,553
Term of patent 3½ years



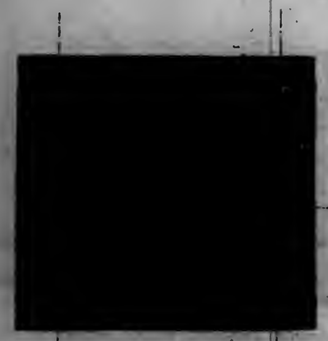
The ornamental design for a textile fabric or similar article as shown.

90,402
DESIGN FOR A CHANGEABLE SHEET BULLETIN BOARD
John B. D'Ippolito, Vineland, N. J., assignor of one-half to Arthur L. Joseph, Vineland, N. J.
Application May 18, 1933. Serial No. 48,158
Term of patent 3½ years



The ornamental design for a changeable sheet bulletin board as shown.

90,403
DESIGN FOR A TEXTILE FABRIC OR THE LIKE
Robert E. Fatheriey, Darien, Conn.
Application June 20, 1933. Serial No. 48,466
Term of patent 3½ years



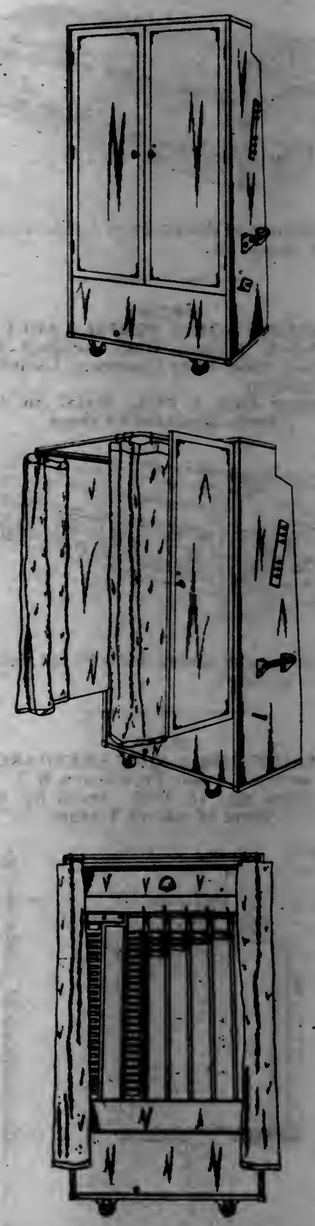
The ornamental design for a textile fabric or the like as shown and described.

90,404
DESIGN FOR A TEXTILE FABRIC OR THE LIKE
Robert E. Fatheriey, Darien, Conn.
Application June 20, 1933. Serial No. 48,464
Term of patent 3½ years



The ornamental design for a textile fabric or the like as shown and described.

90,405
DESIGN FOR A COMBINED VOTING MACHINE CABINET AND BOOTH
Arthur F. Fechrenbach, Canton, Ohio
Application April 25, 1933. Serial No. 47,895
Term of patent 14 years



The ornamental design for a combined voting machine cabinet and booth as shown.

90,406
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Anton Grulich, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application June 28, 1933. Serial No. 48,566
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown.

90,407
DESIGN FOR A TEXTILE FABRIC
Abraham Nelson Harrison, New York, N. Y.
Application June 29, 1933. Serial No. 48,586
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

90,408
DESIGN FOR A TEXTILE FABRIC
Abraham Nelson Harrison, New York, N. Y.
Application June 29, 1933. Serial No. 48,587
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

90,409
DESIGN FOR A BAG LOCK
Abraham Levine, Elizabeth, N. J.
Application March 20, 1933. Serial No. 47,528
Term of patent 7 years



The ornamental design for a bag lock, as shown.

90,410
DESIGN FOR A VENDING MACHINE CASING
John Franklin Meyer, Chicago, Ill.
Application March 27, 1933. Serial No. 47,601
Term of patent 7 years



90,410—continued



The ornamental design for a vending machine casing, as shown and described.

90,411
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application May 4, 1933. Serial No. 47,997
Term of patent 3½ years





The ornamental design for a shoe, as shown.

90,412
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,322
Term of patent 3½ years





The ornamental design for a shoe, as shown.

90,413
DESIGN FOR A TEXTILE FABRIC
Joseph Persky, New York, N. Y.
Application June 23, 1933. Serial No. 48,507
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

90,414
DESIGN FOR A TEXTILE FABRIC
Joseph Persky, New York, N. Y.
Application June 23, 1933. Serial No. 48,506
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

90,415
DESIGN FOR A TEXTILE FABRIC OR THE LIKE
Paul Reiman, New York, N. Y.
Application June 26, 1933. Serial No. 48,460
Term of patent 3½ years



The ornamental design for a textile fabric or the like as shown.

90,416
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Paul Reiman, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application June 27, 1933. Serial No. 48,554
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown.

90,417
DESIGN FOR A SHOE
Chester F. Reith, Clayton, Mo., assignor to The Juvenile Shoe Corporation of America, Aurora, Ill., a Corporation of Missouri
Application June 10, 1933. Serial No. 48,369
Term of patent 3½ years



The ornamental design for a shoe, substantially as shown and described.

90,418
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Alex Rota, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application June 27, 1933. Serial No. 48,550
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown.

90,419
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Louis Rubinger, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application June 27, 1933. Serial No. 48,556
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown.

90,420
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Louis Rubinger, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application June 27, 1933. Serial No. 48,559
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown.

90,421
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Louis Rubinger, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application June 27, 1933. Serial No. 48,558
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown.

90,422
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Louis Rubinger, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application June 27, 1933. Serial No. 48,557
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown.

90,423
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Louis Rubinger, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application June 27, 1933. Serial No. 48,555
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown.

90,424
DESIGN FOR A TEXTILE FABRIC OR THE LIKE
Everett B. Sherwin, Mamaroneck, N. Y.
Application June 6, 1933. Serial No. 48,293
Term of patent 3½ years



The ornamental design for a textile fabric or the like substantially as shown and described.

90,425
DESIGN FOR A MILK BOTTLE SPOUT
Charles Ernest Slaughter, Montclair, N. J.
Application June 7, 1933. Serial No. 48,309
Term of patent 7 years



The ornamental design for a milk bottle spout as shown.

90,426
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Walter Speck, Haledon, N. J., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application June 28, 1933. Serial No. 48,565
Term of patent 3½ years



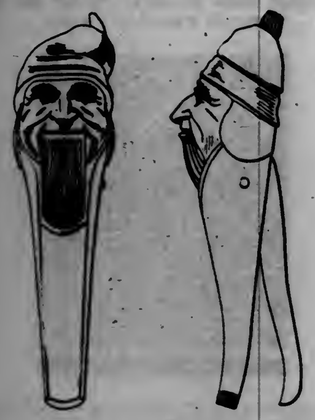
The ornamental design for a textile fabric or similar article as shown.

90,427
DESIGN FOR A SET OF PLAYING CARDS
Thomas C. Steidley, Fairmont, W. Va.
Application February 27, 1933. Serial No. 47,232
Term of patent 14 years



The ornamental design for a set of playing cards as shown and described.

90,428
DESIGN FOR A NUT CRACKER
Christian Swensen, of Duluth, Minn.
Application May 5, 1933. Serial No. 48,017
Term of patent 3½ years



The ornamental design for a nut cracker as shown.

90,429
DESIGN FOR A BENT WINDOW GLASS
Herman A. Tidemann, Toronto, Ontario, Canada
Application December 30, 1932. Serial No. 46,663
Term of patent 14 years



The ornamental design for a bent window glass substantially as shown and described.

90,430
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Herbert L. Van Benthuysen, New York, N. Y. assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application June 27, 1933. Serial No. 48,549
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown.

90,431
DESIGN FOR A CONTAINER CAP
Georges Wilmet, New York, N. Y., assignor to Armstrong Cork Company, Lancaster, Pa., a Corporation of Pennsylvania
Application February 28, 1933. Serial No. 47,350
Term of patent 3½ years

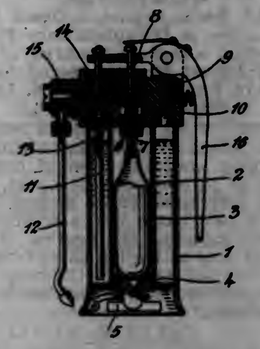


The ornamental design for a container cap as shown.

PATENTS

GRANTED AUGUST 1, 1933

1,920,165
MOUTH CLEANSING DEVICE
Hans Andvig, Oslo, Norway
Application May 16, 1931. Serial No. 537,958
3 Claims. (Cl. 299—80.)



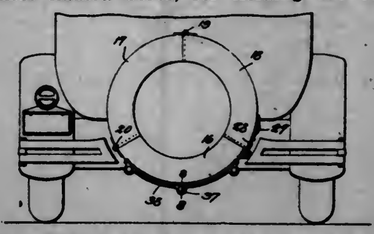
1. An atomizer comprising a container for the liquid to be sprayed, a top secured to said container, a removable carbon dioxide bulb located within said container and below said top, means on said top for piercing said bulb, a conduit in said top part of which extends through said piercing means for connecting said bulb and said container, a spraying nozzle, a second conduit in said top connecting said container with said spraying nozzle, two separate valves located in said top controlling said two conduits, means for normally maintaining said valves in closed position and a single hand operated means secured to said top for opening both of said valves in sequence.

1,920,166
VAT AND SULPHUR DYESTUFF PREPARATION
Hermann Berthold and Hermann Friedrich, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware
No Drawing. Application December 3, 1931, Serial No. 578,847, and in Germany December 6, 1930
8 Claims. (Cl. 8—6.)

1. Vat and sulphur dyestuff preparations for textile printing comprising a water-soluble salt of an acid of the probable formula: $R.O.R_1COOH$ wherein R means a carbocyclic aromatic nucleus and R_1 means an aliphatic radical.

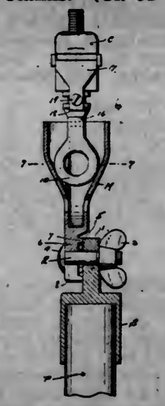
1,920,167
TIRE COVER
Harry Ray Bird, Taft, Calif.
Application September 3, 1930. Serial No. 479,532
2 Claims. (Cl. 224—29.)

1. The combination with parallel threaded studs, and means for joining them to a support, of a sectional tire cover, a yoke fixedly attached thereto having parallel bores in which the studs are removably mounted, a second tire cover, a yoke thereon having parallel bores, spacing pins seated in the last named bores and threaded into the first named bores, for holding the covers



rigidly but detachably spaced, said pins and studs being respectively alined.

1,920,168
OPERATING MEMBER OR STICK FOR HOT LINE EQUIPMENT
Henry W. Bodendieck, Taylorville, Ill.
Application December 23, 1930. Serial No. 504,364
10 Claims. (Cl. 81—53.)



1. An operating member of the class described comprising a socket having a main chamber, and angularly disposed pockets at opposite sides of the chamber in communication therewith, the open end of the chamber of the socket being elongated, the longitudinal axis of said open end being substantially at right angles to the plane of the pockets, the main chamber being expanded towards its mouth or opening in a dimension transverse to the extension of the pockets, said dimension being reduced at its inner end to the cross section of the socket.

1,920,169
WEED AND GRASS CUTTER
Alva S. Briggs, Adams, Tenn., assignor of one-fourth to Robert Clarence Riggan and one-fourth to Robert Fulton Ridings, Adams, Tenn
Application July 21, 1932. Serial No. 623,872
3 Claims. (Cl. 30—9.)

2. A grass and weed cutter of the character described comprising a longitudinally extending shank angularly bent at one end and at the opposite end angularly bent in an opposite direction, a blade attached to the last named end, a

rotatable handle mounted upon the first-named angular end, the handle being parallel to the blade, and a rotatable handle mounted upon the



shank and extending approximately parallel to the first-named handle but extending in a reverse direction.

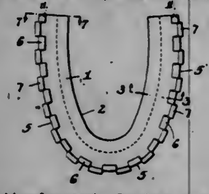
1,920,170

HEEL ATTACHMENT DEVICE FOR SHOES

Oscar Brockman, Louisville, Ky.

Application August 31, 1931. Serial No. 560,409

2 Claims. (Cl. 36—36.)



1. A heel attachment device consisting of a substantially U-shaped plate having on its outer edge a plurality of spaced attachment prongs adapted to be bent upwardly over and clinched to the edge of the heel part of a shoe sole, and having its inner edge bent downwardly and outwardly to form an outwardly directed flange similarly shaped, spaced from and substantially parallel with the main body part of the plate.

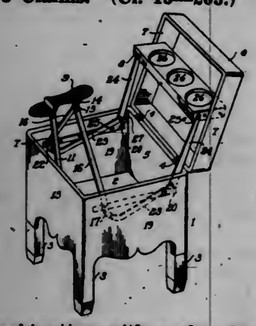
1,920,171

SHOE SHINE BOX

Harry H. Gerstner, Dayton, Ohio

Application April 7, 1932. Serial No. 603,721

3 Claims. (Cl. 15—265.)



1. The combination with a shoe box, a cover hinged thereto, a foot rest within the box, a shelf pivotally secured to the inner portion of the cover, and linkage connected between said shelf and foot rest, whereby, when the free end of the cover is drawn upwardly and rearwardly, the foot rest will be elevated out of the box to a foot-supporting position above the latter, opposite the shelf, and the shelf will remain approximately horizontal.

1,920,172

ACTIVATION OF CARBONACEOUS SUBSTANCES

Albert Godel, Paris, France, assignor to Société De Recherches & D'Exploitations Petroliferes, Paris, France, a Société Anonyme of France

Application August 11, 1930, Serial No. 474,628, and in France September 9, 1929

5 Claims. (Cl. 252—3.)

4. A process for the activation of carbonaceous material by means of gases, comprising the successive heating and activation of one and the same batch of carbonaceous material, the passing of the activation gases derived from the activation of said batch into a second batch of carbonaceous material, the heating of said second batch by said activation gases from the first batch, and the utilization of the heat contained in the gases leaving said second batch of carbonaceous material.

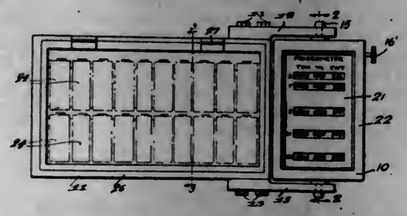
1,920,173

PRICEOMETER

Edward Stanley Griffith, Oneida County, N. Y.

Application April 11, 1930. Serial No. 443,574

2 Claims. (Cl. 235—86.)



1. In a device of the class described, a movable tape having a column of price tabulations thereon relating to a plurality of commodities, said tabulations including separate items of basic price of a major unit of weight or measure of each commodity, the basic price plus a predetermined rate of increase over such basic price and the latter plus allowed commissions, means movably mounting said tape whereby these related items only may be exposed to view for any one of the several commodities, and a separate column of graduated price tabulations of fractional units of weight of each commodity computed from the other of said price tabulations.

1,920,174

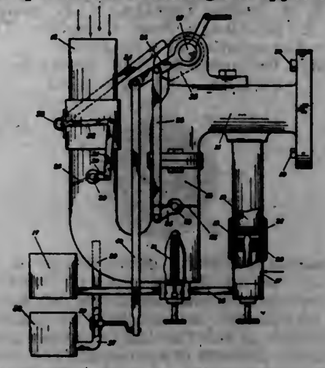
CARBURETOR

James E. Harris, Central City, Nebr.

Application June 22, 1931. Serial No. 546,138

5 Claims. (Cl. 261—18.)

1. A carburetor including an air conduit for connection with a cylinder of an explosion engine, a main fuel jet within said conduit, a vertical tubular chamber communicating with said conduit, an idling jet within said chamber, said chamber being provided with an aperture for admitting air to said idling jet, and a septum within said chamber and movably adjustable in an up and down direction, said septum being provided with an aperture for receiving the upper end portion of said idling jet for preventing the admission of air thereto.



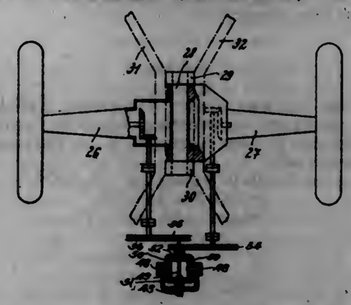
1,920,175

DRIVING MECHANISM FOR THE WHEELS OF DIVIDED SWINGING AXLES OF MOTOR VEHICLES OR THE LIKE

Zsigmond Hollós, Vienna, Austria

Application April 29, 1929, Serial No. 359,144, and in Austria May 10, 1928

6 Claims. (Cl. 180—73.)



1. A driving mechanism for the wheels of motor vehicles, comprising divided swinging housings having a wheel at one end of each thereof; a shaft for each housing and rotatably arranged therein; a driving shaft for each housing shaft and arranged parallel to the longitudinal axis of the vehicle, said housings being pivoted in common bearings arranged between the driving shafts; and differential gearing for operatively connecting the driving shafts together.

1,920,176

SPRING CUSHION

John T. Atwood, Jackson, Mich., assignor to Reynolds Spring Company, Jackson, Mich., a Corporation of Delaware

Application April 9, 1931. Serial No. 528,922

1 Claim. (Cl. 5—274.)

A cushion of the character described comprising a plurality of springs arranged in rows and in staggered formation, latch wires extending along and between said rows and bent to zig-zag formation, said latch wires at their point of bending being bent downwardly, inwardly and upwardly, the central portions of said bent portions constituting upwardly directed hooks, the end members of the springs being provided with pairs of outwardly bowed portions spaced apart a distance equal to the distance between said downwardly bent portions of the latch wires, said downwardly bent portions lying, when the parts are in assembled position in said outwardly bowed portions of the spring ends and said hook like portions extending upwardly above the level of the portions of the spring ends which lie between said outwardly bowed portions, the relative dimensions of the said outwardly bowed portions of the end members of the springs and the said



hook like portions being such that when the said end members and latch wires are flexed to positions of angularity with respect to each other, above the horizontal, to a degree sufficient to move the hook like portion below the plane of the outwardly bowed portions, the said hook like member and outwardly bowed portions may be moved in opposite directions and in the direction of the general length of the latch wire to permit disengagement of the spring and latch wire by the movement of the hook like portion through one of said bowed portions.

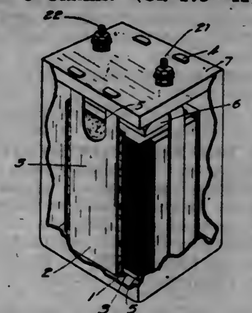
1,920,177

CAPACITOR

William M. Bailey, Lynn, Mass., assignor, by mesne assignments, to General Electric Company, a Corporation of New York

Application October 29, 1929. Serial No. 403,153

5 Claims. (Cl. 175—41)



2. A capacitor assemblage including a stack of dielectric and armature sheets, sheet insulating material facing and adjoining opposite sides of the stack and holding the edges of its dielectric sheets in alinement with one another and facing and adjoining the bottom of the stack; a U-shaped flexible sheet metal stirrup-plate having its bottom and side portions in engagement with said sheet insulation and supporting the stack at its bottom, the free ends of the stirrup-plate projecting beyond the other end of the stack; a casing-cover of insulating material facing said other stack-end and apertured for said stirrup-plate-ends, the latter projecting thru said apertures and beyond said cover and flexible toward the cover for securing the stirrup-plate and cover together; a circuit terminal mounted on said cover and connected to the stack; and stack-compressing

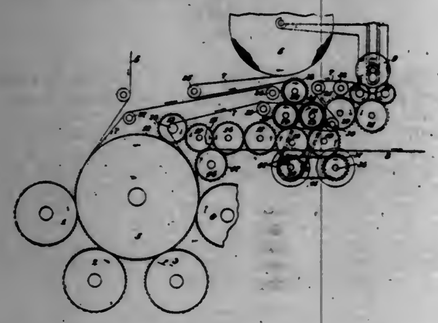
means engaging said other end of the stack and receiving compression stresses from the insulating cover, the stirrup-plate-legs and the stirrup-plate bottom when the projecting stirrup-plate ends are flexed toward the insulating cover.

1,920,178

TRAVELING OFFSET WEB CONTROLLING MECHANISM FOR MULTICOLOR PRINTING PRESSES

Howard M. Barber, Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a Corporation of Delaware

Application July 1, 1931. Serial No. 548,137
15 Claims. (Cl. 101—417)



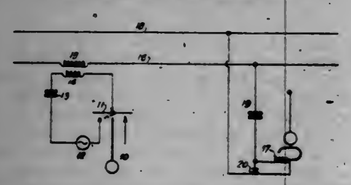
15. In a multicolor web perfecting rotary printing press, a printing unit, a traveling offset web, its rewinding mechanism, and an offset web controlling mechanism having a positively driven roll around which the offset web passes before reaching the printing unit and other positively driven rolls around which the offset web passes after it leaves the printing unit, to exert tension tending to slightly retard the web, said offset web controlling mechanism including a manually adjustable variable speed drive.

1,920,179

TIME DISTRIBUTION SYSTEM

Constant Battegay, Levallois-Perret (Seine), France, assignor to Societe Anonyme des Ateliers Brille Freres, Levallois-Perret, Seine, France, a Corporation of France

Application February 28, 1931, Serial No. 519,114, and in France May 3, 1930
5 Claims. (Cl. 58—32)



1. An electric control system for clocks comprising electric mains, a master clock, a generator of comparatively high frequency alternating current, a condenser, a circuit containing said generator and condenser in series, a receiving circuit comprising a coil and a condenser tuned to the frequency of the generator and connected across the mains, a rectifier shunting the coil and a secondary time-piece controlled by the coil.

1,920,180

ELECTRIC CABLE

Alfred P. S. Bellis, Trenton, N. J., assignor to John A. Roebling's Sons Company, Trenton, N. J., a Corporation of New Jersey

Application December 30, 1930. Serial No. 505,501
1 Claim. (Cl. 173—264.)



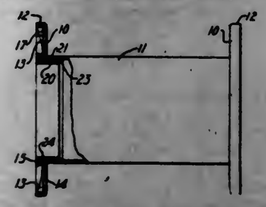
A concentric electric cable having a central conductor, an insulating wall of impregnated paper upon the central conductor, an outer concentric conductor comprising a plurality of strands, each of substantially circular cross section whereby grooves or spaces exist between said strands on the inside of said outer concentric conductor, and a covering carried by the paper insulating wall and comprising a plurality of layers of cotton tape, in which the respective strands of the concentric conductor are embedded so that the outer part of said tape enters the grooves or spaces between the strands to reduce the space for ionization between said strands on the inside of the concentric conductor, said covering layer serving also as a filler to prevent the escape of impregnating or insulating compound from the paper into the spaces and the flow along said grooves or spaces between the strands.

1,920,181

REEL

Harry Blount and Elmer J. Larsen, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York

Application September 30, 1930
Serial No. 485,273
6 Claims. (Cl. 242—77)



1. A reel comprising a drum, and a head having a hub provided with an annular groove for receiving an end of the drum, an inwardly projecting flange arranged to fit within the drum, an outwardly projecting flange, and spaced slots in the hub extending parallel to the drum and through the outwardly projecting flange to the drum for receiving welding material for securing the head to the end of the drum.

1,920,182

CABLE FORMING MACHINE

Helmer J. Boe, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York

Application September 25, 1929
Serial No. 395,031
12 Claims. (Cl. 117—35)

1. In a cable forming apparatus, means for assembling a plurality of strands into a group,

a rotatable take-up reel for receiving the grouped strands, a rotatable supporting structure for the take-up reel, and a toothed ring floating on the



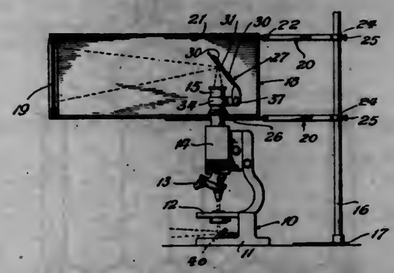
reel supporting structure for rotating the take-up reel with respect to the reel supporting structure.

1,920,183

MICROSCOPIC PROJECTOR

Edward W. Bossing, Brookfield, Ill.

Application April 2, 1931. Serial No. 527,072
1 Claim. (Cl. 88—24)



A microscopic projection apparatus, comprising a reflector adapted to be removably mounted on a microscope in juxtaposition to the eye piece of the microscope, and a housing, having a ground glass screen in one wall, for enclosing the reflector and eye piece of a miscroscope, said reflector comprising a frame, a mirror mounted in the frame, a clamp consisting of a ring member for engaging the upper part of a microscope and a pair of ears protruding from the ring, an arm, the mirror frame being mounted on one end of the arm and the opposite end of the arm being apertured and located between the ears on the clamp and a bolt extending through said ears and said arm for simultaneously attaching the clamp to a microscope and adjusting the reflector arm relatively to the eye piece.

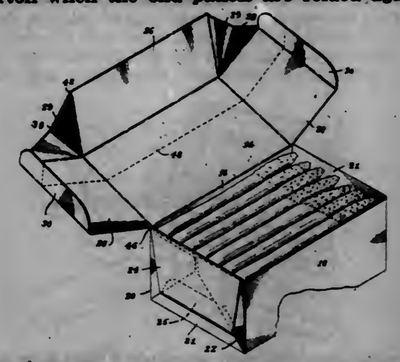
1,920,184

CARTON FOR FROZEN FOOD PRODUCTS

Alfred B. Brackett, Swampscott, Mass., assignor to Frosted Foods Company, Inc., Dover, Del., a Corporation of Delaware

Application December 1, 1932. Serial No. 645,204
6 Claims. (Cl. 229—31)

1. A carton for frozen food products, comprising a box-like body having exterior tucks at its ends for receiving cover-holding flaps, a cover attached to one edge of the body and including top, side and end panels and corner portions connected to the side and end panels, the cover being scored along the junction of the top and side panels whereby to permit the side panel to be folded against the adjacent side of the body and each of said corner portions being scored diagonally and along its edges whereby it may be folded beneath its end panel, the scorings at the junction of the end panels and said corner portions diverging outwardly away from the outer edge of the side panel thereby tending to draw the side panel close to the body of the carton when the end panels are folded against



the body, and holding flaps carried by the end panels for engaging within said tucks.

1,920,185

GLARE SCREEN

William C. Carr, Jr., Richmond, Va.; Helen S. Carr, guardian, assignor to William C. Carr, Sr.

Application October 2, 1931. Serial No. 566,507
1 Claim. (Cl. 296—97)

A glare screen comprising a pivot of soft rubber having a neck of a substantial diameter; means for securing the pivot on a windshield; a screen of elastic light-transmitting material of three-ply construction pivotally mounted on the pivot, the apertures in the two outside plies being approximately the same in diameter as the diameter of the pivot, and the aperture in the middle ply having an irregular outline and having a clear diameter less than the diameter of the pivot, so that when the three plies are cemented together the screen material about the apertures in the two outside plies reinforces the elastic screen material projecting into the aperture in the middle ply, which projecting screen material acts as a spring bearing upon the neck of the pivot, to prevent accidental rotation of the screen about the pivot.

1,920,186

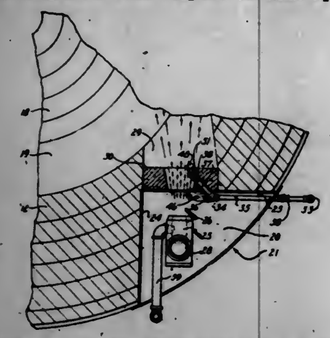
HEATING SYSTEM

Herbert F. Carter, Roselle Park, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York

Application December 10, 1930. Serial No. 501,217
7 Claims. (Cl. 158—1.)

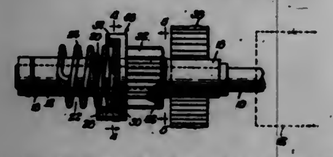
1. In a heating system, a combustion chamber, a duct leading to the combustion chamber for conducting fuel thereto, and means at one end of the duct for projecting flames across the path of the fuel at spaced points to ignite the fuel, said means comprising a wall having an aperture com-

municating with said duct and a passageway diagonally disposed with respect to said aperture



and extending into said aperture, a pilot tube adjacent said aperture remote from said duct, and a second pilot tube located in said passageway.

1,920,187
STARTER FOR ENGINES
James A. Charter, Chicago, Ill., assignor to Charter Drive, Inc., Chicago, Ill., a Corporation of Illinois
Application March 1, 1929. Serial No. 343,718
11 Claims. (Cl. 74—7.)



1. In an engine starting device of the class described, a drive shaft unit comprising a shaft, a sleeve freely rotatable upon said shaft, an engine driving member longitudinally movable upon said sleeve, and means for resiliently engaging the engine driving member to maintain said member in a predetermined position with respect to the engine part driven thereby.

1,920,188
PRODUCTION OF ARTIFICIAL MATERIALS
William Alexander Dickie and Percy Frederick Combe Sowter, Spondon, near Derby, England, assignors to Celanese Corporation of America, a Corporation of Delaware
No Drawing. Application January 3, 1930, Serial No. 418,415, and in Great Britain January 18, 1929.
6 Claims. (Cl. 8—20)

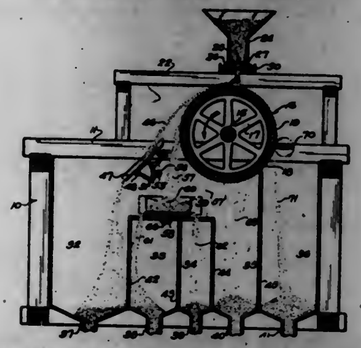
1. Process for the manufacture of artificial materials comprising organic esters of cellulose, comprising as a continuous operation forming the products by a spinning process from a solution of the organic ester of cellulose in a solvent, and subjecting them while still containing solvent to a saponifying treatment.

1,920,189
LUGGAGE LATCH
James Dorst and Henry F. Weltz, Mayville, Wis., assignors to Arthur A. Buerger, Mayville, Wis.
Application August 27, 1932. Serial No. 630,616
15 Claims. (Cl. 70—2.)

1. In combination, a pair of relatively movable sections having cooperating closure portions, means for simultaneously latching said portions at remotely spaced points against separation, independently operable means for additionally latching said portions at some of said points, and common control means for simultaneously releasing all of said latching means.



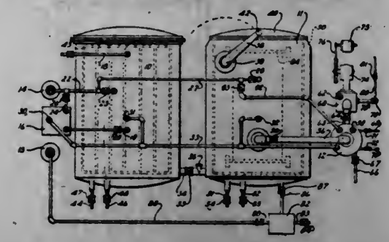
1,920,190
APPARATUS FOR GRADING MATERIAL
Damon D. Dunkin, Guion, Ark.
Application March 30, 1929. Serial No. 351,208
5 Claims. (Cl. 209—120)



1. In apparatus for grading sand and like materials, a drum for receiving the material to be graded thereon, means for rotating the drum about a substantially horizontal axis to effect the successive discharge therefrom of a plurality of different grades of material, each containing grains of a relatively predetermined size, a horizontally disposed platform for receiving a portion of the material discharged from the drum and effecting a further separation thereof to produce the second and third grades, and means for moving said platform horizontally to control the amount of material passing into the said second and third grades.

1,920,191
METHOD OF AND SYSTEM FOR IMPREGNATING ARTICLES
Ben K. Ford, Westfield, and Maurice A. Lamme, Maplewood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York
Application June 6, 1930. Serial No. 459,518
5 Claims. (Cl. 91—70.)

1. A method of impregnating articles, which comprises placing the articles in a closed impregnating chamber, raising the temperature in the chamber above 100° F., creating and maintaining a vacuum in the chamber for a predetermined period of time while maintaining the temperature above 100° F., and simultaneously admitting fresh air to the chamber, heating a mixture of an impregnating material and a volatile solvent in a closed storage tank, transferring the heated mixture from the storage tank to the impregnating chamber by an inert gas under pressure, maintaining the solution in the impregnating chamber for a predetermined period of time to impregnate the articles, transferring the solution from the impregnating chamber back to the storage tank by an inert gas under pressure, exhausting the vapor from said impregnating chamber, maintaining a vacuum in the impregnating chamber for a predetermined



period of time and simultaneously maintaining the temperature above 100° F., and admitting heated fresh air to the impregnating chamber while maintaining the vacuum and the temperature above 100° F. for a predetermined period of time.

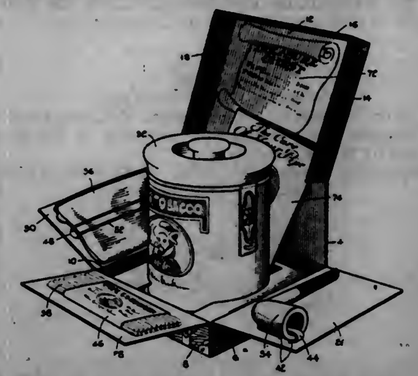
1,920,192
REMOTE CONTROL DEVICE FOR SHOCK ABSORBERS
Merritt L. Fox, Buffalo, N. Y., assignor to Houde Engineering Corporation, Buffalo, N. Y., a Corporation of New York
Application October 31, 1931. Serial No. 572,291
4 Claims. (Cl. 188—87)



1. A liquid shock absorber comprising a body adapted to be mounted on a movable support and having a working chamber containing a resistance liquid, a piston movable in said working chamber and having a hub and an operating shaft extending axially from said hub, said hub having a regulating passage connecting with said working chamber and having a valve seat, and said shaft having a bore communicating with said regulating passage and provided with a screw thread, a valve stem arranged in said bore and having a valve movable toward and from said valve seat and also having a screw thread engaging the thread of said shaft, a worm wheel connected with said valve stem, a worm meshing with said worm wheel, and a support which is arranged on said shaft and on which said worm is journaled.

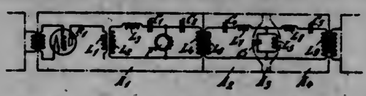
1,920,193
DISPLAY PACKAGE
George E. Gary, Louisville, Ky., assignor to Brown & Williamson Tobacco Corp., Louisville, Ky., a Corporation of Delaware
Application November 7, 1930. Serial No. 493,996
7 Claims. (Cl. 206—44.)

1. A package for shipment and display of a group of related articles, said package comprising bottom, side, and cover walls, the upper portions of the four vertical corners of the package being unconnected, and the upper portions of three of the side walls being hingedly related to the lower portions thereof, whereby the uppper portions of the said three side walls are adapted to be turned outwardly, the cover wall being hingedly related to the upper edge of the fourth side wall and being provided with a depending marginal flange for holding the other side walls in closed position when the cover wall is moved downwardly over the same, said fourth side wall being one continuous upright wall supported in its upright position by the lower portions of the



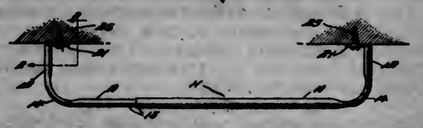
other side walls, and serving to support the cover in elevated position when said package is opened for display, and means on said side walls for holding some of the related articles, so that when the side and cover walls are folded outwardly the articles are individually exposed to view.

1,920,194
FREQUENCY MULTIPLIER
Felix Gerth, Berlin-Tempelhof, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany
Application November 5, 1929, Serial No. 404,891, and in Germany November 17, 1928
1 Claim. (Cl. 250—36.)



A frequency multiplying arrangement comprising a device to which a transmitted primary frequency is supplied characterized in this that said device comprises a plurality of stages connected in cascade and each stage including an amplifier, a frequency multiplier requiring a minimum amount of energy for its operation, connected to the output circuit of the amplifier and a disturbance remover coupled to the output circuit of the multiplier and suppressing substantially all frequencies except a harmonic of the frequency impressed on the input of the multiplier.

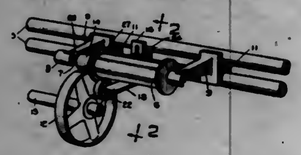
1,920,195
CURTAIN SUPPORT
John N. Henry, Norwood, R. I., assignor to James N. Henry, Providence, R. I.
Application July 16, 1932. Serial No. 622,864
11 Claims. (Cl. 156—22.)



1. The combination of a curtain rod comprising a vertical web and inturned vertical flanges

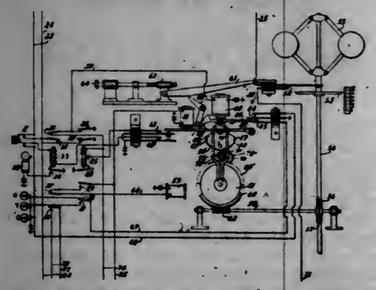
oppositely disposed upon the top and bottom thereof, said web being provided with an aperture, an upright attaching plate, interspaced forwardly directed arms upon the plate, protuberances upon the arms engaging the flanges, a forwardly directed intermediate arm supported by the plate, and a protuberance upon the intermediate arm registerable in the aperture.

1,920,196
BOBBIN STOP MOTION
Harmon Howorth, Cumberland, Md., assignor to Celanese Corporation of America, a Corporation of Delaware
Application August 20, 1931. Serial No. 558,263
2 Claims. (Cl. 242—39.)



1. As a new article of manufacture, an attachment for redraw machines comprising a casting having a plurality of slots therein, an arm pivotally mounted in one of said slots, a roller carried by said arm and means for adjusting the height of said arm.

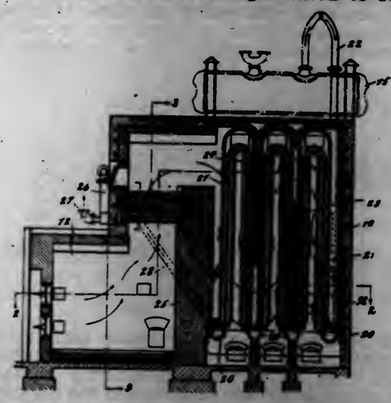
1,920,197
TRAIN CONTROL SYSTEM
Alfred Ernest Hudd, Evanston, Ill., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a Corporation of Delaware
Application October 6, 1926. Serial No. 139,794
43 Claims. (Cl. 246—63.)



1. In a system of vehicle speed control, in combination, a movable speed control element, and magnetic means placed intermittently along the path of travel of the vehicle for varying the speed at which the element moves with respect to the speed of the vehicle.

1,920,198
SUPERHEATER
David S. Jacobus, Montclair, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey
Original application February 17, 1922, Serial No. 537,153. Divided and this application April 18, 1928. Serial No. 271,057
11 Claims. (Cl. 122—485)

1. In combination, a fluid heater comprising a chamber the walls of which are provided with openings, and tubes having their ends untreated and expanded in said openings, the remaining portions of said tubes being treated to render



them resistant to deterioration, said treatment rendering the tubes difficult to expand.

1,920,199
CLOSURE FOR COLLAPSIBLE TUBES AND THE LIKE
Charles J. Jesnig, Philadelphia, Pa.
Application September 27, 1932.
Serial No. 635,019
9 Claims. (Cl. 221—60.)



1. In combination, a collapsible tube having a neck provided with a conical end surface and a passage extending therefrom to the interior of the neck, a cap having an inner conical surface seating over the end of the neck and a discharge outlet, said cap arranged for movement toward and away from the conical surface of the neck, and a yieldable sealing element interposed between said conical surfaces free to move longitudinally thereof in correspondence with the movement of the cap.

1,920,200
KNITTED HEADWEAR
David Karger, Milwaukee, Wis.
Application May 12, 1932. Serial No. 610,749
1 Claim. (Cl. 2—201.)



A knitted headwear, comprising a circular knitted body portion closed at one end portion and open at its other end, said body portion comprising upper and lower sections, each of said sections having an intermediate bulge and united by a constricted portion, the lower section being folded inwardly on itself substantially at the bulge therein, and the end portion of the inwardly folded portion continuing into the upper section to provide an internal band.

1,920,201
ALTERNATING PISTON ROTARY ENGINE
Aron Kolko, Colombes, France
Application October 25, 1930, Serial No. 491,233, and in France October 28, 1929
6 Claims. (Cl. 123—11.)

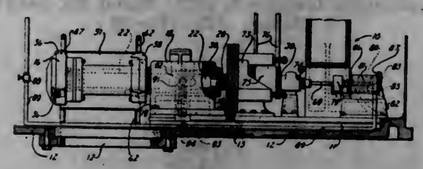


1. A rotary machine of the class described, including the combination, with at least two rings provided with blades, a shaft and a cam thereon having at least one angular projection, of a circular drum concentrically mounted upon said shaft and having twice as many apertures therein as there are angular projections upon said cam, a radially movable free roller disposed in each of said apertures, and a series of bosses fixed alternately upon said rings and divided into two groups, there being as many bosses in each group as there are angular projections on said cam, and each group of which is arranged to simultaneously cooperate with said rollers.

1,920,202
LUBRICATING COMPOSITION
Alfred R. Lange, Elizabeth, and Frank B. Mason, New Providence, N. J., assignors to Swan-Finch Oil Corporation, New York, N. Y., a Corporation of New York
No Drawing. Application December 1, 1928
Serial No. 323,197
8 Claims. (Cl. 87—9)

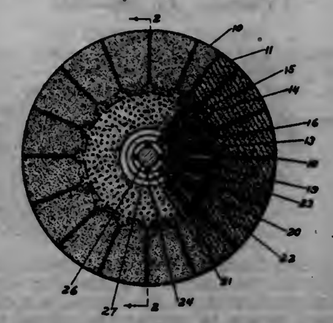
1. A grease comprising a lime soap of a fatty acid having a molecular weight above 285 and a mineral oil, said grease having a free fatty acid content not exceeding approximately 0.5%.

1,920,203
APPARATUS FOR HANDLING MATERIAL
Einer W. Larsen, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York
Application March 7, 1930. Serial No. 433,862
11 Claims. (Cl. 242—25.)



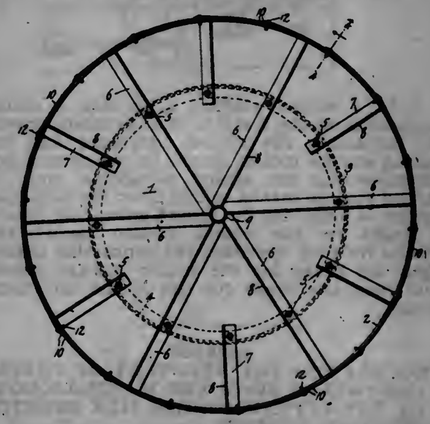
1. In a reeling device, an arbor for carrying the reel, spaced pivoted fingers on the arbor movable to engage the reel at a plurality of spaced points to lock the reel on the arbor, cam means for actuating the fingers and pneumatic means for rendering the cam means inoperative to permit removal of the reel.

1,920,204
ABRASIVE WHEEL MOUNT
Thure Larsson, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts
Application May 12, 1930. Serial No. 451,699
6 Claims. (Cl. 51—207.)



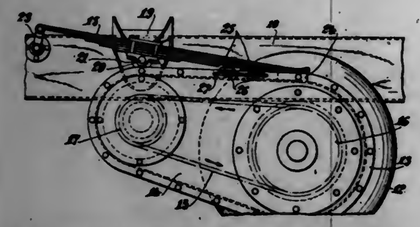
1. A grinding wheel comprising an abrasive annulus having a large center hole, a single-piece centering hub of smaller diameter than the hole which is located therein, a suitable cement positioning said hub within the annulus, and readily accessible adjusting screws affixed to the centering hub and projecting inwardly therefrom which are engageable with a supporting shaft whereby the grinding wheel may be adjustably centered upon said shaft.

1,920,205
CABLE REEL
Arthur Lowy, Newark, N. J., assignor to New York Engineering Company, New York, N. Y., a Corporation of New York
Application April 4, 1930. Serial No. 441,590
4 Claims. (Cl. 242—77)



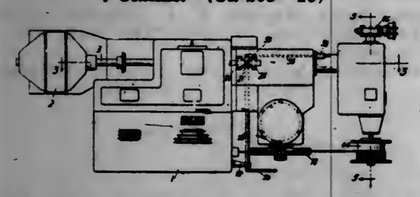
4. A cable reel comprising a drum, head plates detachably secured to said drum, a rim carried by each head plate, central bushings secured to said head plates, long spokes secured to said head plates each having one end attached to the central bushing and the other end attached to the rim, and intermediate short spokes secured to said head plates each having one end attached to the rim and the other end extending inwardly at least to said drum.

1,920,206
SPRING SUSPENSION FOR INDIVIDUALLY SPRUNG WHEELS
Alfred F. Masury, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware
Application June 17, 1932. Serial No. 617,751
4 Claims. (Cl. 280—124)



1. A vehicle having a frame, a wheel, a mounting device on the frame to mount the wheel as an independent unit on the frame, a spring on the frame, means to mount the spring on the frame to engage the top surface of the mounting device, a bearing pad on the mounting device, and means to vary the position of the pad to vary the effective length of the spring under load.

1,920,207
STRAND WORKING APPARATUS
Edwin J. McIlvried, Cleveland, Ohio, assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York
Application August 12, 1929. Serial No. 385,171
7 Claims. (Cl. 205—16)

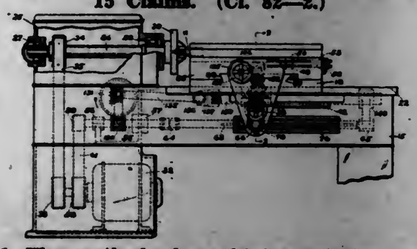


1. In a strand working apparatus, a strand advancing means, a strand storage means, means for actuating the strand advancing and the strand storage means, means for connecting and disconnecting the strand advancing and the strand storage means to and from the actuating means, a brake for the strand advancing means, a brake for the strand storage means, and means for first operating the connecting means, then the brake for the strand storage means, and then the brake for the strand advancing means.

1,920,208
PROCESS FOR THE RECOVERY OF COPPER COMPOUNDS FROM THE WASTE LIQUORS OF THE CUPRAMMONIUM SILK STRETCH SPINNING PROCESS
Ido Mutti, Gozzano, Italy, assignor to the Firm American Bemberg Corporation, New York, N. Y., a Corporation of Delaware
No Drawing. Application March 27, 1931, Serial No. 525,862, and in Germany March 28, 1930
17 Claims. (Cl. 23—125)

1. A process for recovering copper compounds from highly diluted copper containing precipitating liquid obtained in the cuprammonium silk stretch spinning process, which comprises adding to the liquid an alkali and a solution of magnesium salt, the mud containing copper hydroxide and magnesium hydroxide which is formed being separated off from the supernatant liquid.

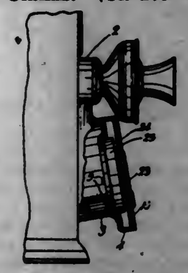
1,920,209
LATHE AND METHOD OF TURNING ROUND BODIES
Charles H. Norton, Plainville, Conn., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts
Application April 17, 1931. Serial No. 530,798
15 Claims. (Cl. 82—2.)



1. The method of machining rotating work pieces comprising the steps of rapidly rotating the work, continuously feeding towards the work axis a plurality of lathe tools arranged along the work, and during the feeding movement causing a relative oscillation of the lathe tools and work through a given distance, regardless of the length of the work, which will cause the paths cut by the tools to overlap each other.

15. A lathe comprising a base, a rotatable work support thereon, means to rapidly rotate said support, a tool carriage movable on the base and longitudinally of the work, a multiplicity of lathe tools mounted in spaced relation on said carriage and substantially along the entire length of the portion of the work to be cut and on opposite sides thereof, power operated mechanism to continuously feed all of the tools simultaneously into the work, means operated in timed relation with the work rotation to cause a rapid oscillation of the carriage and lathe tools longitudinally of the work during the engagement of the tools with the work, means to adjust the extent of said oscillation whereby each tool will be caused to cut a non-recurring path which may progressively intersect with adjacent cut paths, and adjustable mechanism to disengage the power operated tool infeed when the work has been reduced to a predetermined size.

1,920,210
CALLING DEVICE AND CALLING DEVICE INDICIA RING SUPPORT
Herbert F. Obergfell, River Forest, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a Corporation of Delaware
Application January 2, 1932. Serial No. 584,470
7 Claims. (Cl. 179—90.)



1. In combination with an impulse transmitting device of the rotatable dial type, the provision of a support having an outwardly and upwardly extending portion and having a continuation of said portion thence extended inward in approximately the plane of the rotatable dial of the device, an indicia member, and means solely above the indicia member for securing said member in place on said last referred to portion.

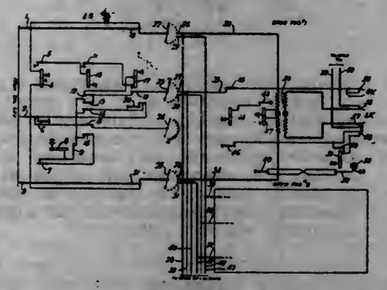
1,920,211
REFINING OF LEAD
Clarence T. Patterson, Syracuse, N. Y., assignor to The Solvay Process Company, Syracuse, N. Y., a Corporation of New York
No Drawing. Application January 20, 1932 Serial No. 587,761
12 Claims. (Cl. 75—15)

1. In a process for purifying lead the improvement which comprises treating the lead in molten condition with moist chlorine gas.

1,920,212
METHOD OF MANUFACTURING ARTIFICIAL THREADS OR FILAMENTS
Reginald William Payne and Robert Pierce Roberts, Spondon near Derby, England, assignors to Celanese Corporation of America, a Corporation of Delaware
No Drawing. Original application December 12, 1928, Serial No. 325,480, and in Great Britain December 23, 1927. Divided and this application February 27, 1930. Serial No. 431,965
4 Claims. (Cl. 18—54.)

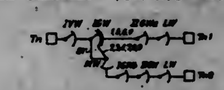
1. Process for the production of artificial filaments presenting reduced lustre characterized in that solutions of cellulose esters in volatile solvents and containing xylene are spun by the dry or evaporative method of formation under such conditions that the xylene exerts a precipitating action on the filaments in the natal state of the filaments.

1,920,213
TELEPHONE SYSTEM
Edward S. Peterson, Elmwood Park, Ill., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a Corporation of Delaware
Application November 30, 1931 Serial No. 577,933
9 Claims. (Cl. 179—27.)



1. In a telephone system, a rotary hunting switch accessible from a preceding selector, a plurality of trunks accessible to said switch and extending to a plurality of operators' positions, respectively, means responsive to the seizure of said switch by the preceding selector for operating it to select an idle trunk extending to one of said operators' positions, means controlled by the operator at said position in case she is too busy to answer the call for causing said switch to select an idle trunk extending to a different operator's position, and means in said switch for holding the preceding selector operated during the time said switch is selecting said second idle trunk.

1,920,214
TELEPHONE SYSTEM
Alexander Bruno Preuss, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt near Berlin, Germany
Application October 7, 1931, Serial No. 567,481, and in Germany October 10, 1930
11 Claims. (Cl. 179—18.)



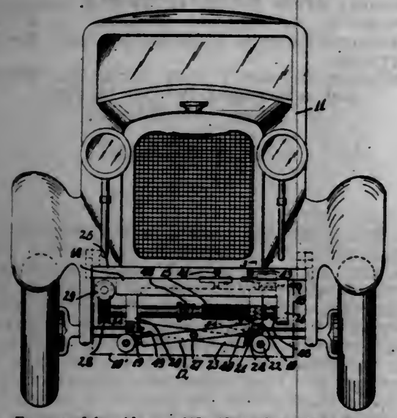
1. In a telephone system, a first exchange, a second exchange, a trunk line extending from said first exchange to said second exchange, a switch at said first exchange for setting up local connections; and means controlled by the setting of the switch at said first exchange for setting the switch at said second exchange over said trunk line, said means including contact groups in the switch at said first exchange, multiple contacts in said contact groups the number of which corresponds to the groups of connected lines in the switch at said second exchange, and means controlled by said multipled contacts for generating impulses for setting the switch in said second exchange.

1,920,215
DIRECTION FINDER LOOP AND CONTROL
John A. Proctor, Lexington, Mass., assignor, by mesne assignments, to General Electric Company, a Corporation of New York
Application May 22, 1928. Serial No. 279,736
9 Claims. (Cl. 250—33.)



9. In a radio direction finder, a loop, leads from the mid-point and ends of the loop, a tubular pedestal, a condenser mounted on the pedestal and connected to the mid-point lead, a separate tubular member of insulating material within the pedestal, said tubular member having lateral opposed apertures at its ends, said loop end leads passing through one pair of said opposed apertures and reversely through said other pair of opposed apertures, thus forming means for suspending said tubular member.

1,920,216
AUTOMATIC VEHICLE JACK
Gaetano Ramondetta, New York, N. Y., assignor of ten per cent to Thomas Pupillo, ten per cent to Giovanno Lopizzo, ten per cent to Anthony Seta, thirty per cent to Sebastiano Costanzo, and ten per cent to Sebastiano Reibera, New York, N. Y.
Application May 14, 1930. Serial No. 452,239
4 Claims. (Cl. 254—126.)



1. In combination with the chassis of a motor vehicle, a jack attached on the front and rear thereof, each comprising a transverse member, a screw rotatively supported thereon, a follower slidably mounted on said member and threadedly engaging said screw, a stationary member fixed upon said transverse member, pairs of spaced pivoted cross rods each pair having one top end pivotally mounted on the stationary member and the other top end pivotally mounted on said follower, rollers on the bottom of said rods, said rods being of telescoping sections, means for rotating said screw in one or the other direction by connection with the motor of said vehicle to cause said rods to extend or assume a normally folded condition or an extreme folded condition, and means for latching the sections of said rods in adjusted positions in said extended or folded condition and automatically unlatching said sections for new adjustments in said extreme folded condition.

1,920,217
RHEOSTAT
Newton C. Schellenger, Elkhart, Ind., assignor to Chicago Telephone Supply Company, Elkhart, Ind., a Corporation of Indiana
Application December 7, 1931. Serial No. 579,552
10 Claims. (Cl. 201—55.)



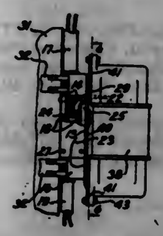
1. In a rheostat, a flat resistance element, a non-flexible conducting contactor, said contactor having a flat surface in contact with said resistance element, an operating shaft, an arm being operatively connected to said shaft, and a universal connection between said arm and said contactor having an interfitting tapered lug and chamber in which the sidewall of the chamber is engaged by the lug whereby said contactor may be moved along the surface of said resistance element upon the actuation of said shaft and to permit said contactor to seat itself properly on the resistance element.

1,920,218
SHOCK ABSORBER
Albert B. Shultz, Buffalo, N. Y., assignor to Houde Engineering Corporation, Buffalo, N. Y., a Corporation of New York
Application December 15, 1930. Serial No. 502,280
14 Claims. (Cl. 188—89.)



1. A shock absorber comprising a body having a fixed wall provided with a curved bearing surface and a yielding wall forming parts of a working chamber adapted to contain a resistance liquid, said yielding wall having a curved bearing surface which is concentric with the curved surface of said fixed wall, and a piston oscillating in said chamber and having a wing, the outer end of which engages the surface of said fixed wall and a hub arranged at the inner end of said wing and having a curved surface engaging the curved bearing surface of said yielding wall.

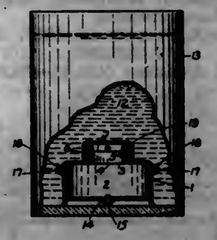
1,920,219
SUPPORTING DEVICE
Claude Theodore Siebs, Nutley, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York
Application October 17, 1928. Serial No. 312,964
2 Claims. (Cl. 247—9.)



1. A transformer mounting comprising a junction box, headed members on a face thereof for receiving slotted lugs on a transformer casing, whereby a transformer or other electrical apparatus may be interchangeably mounted on the said junction box, removable side plates on said junction box to permit the joinder of electrical conductors therein, and means for supporting the junction box on a pillar.

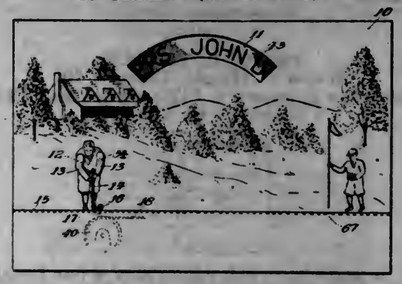
1,920,220
AERATING DEVICE
Harrison L. Staley, Martinsville, Ind.
Application February 13, 1931. Serial No. 515,552
6 Claims. (Cl. 119—5.)

1. An aerating device for live fish containers, comprising a body having an isolated air chamber therein, an opening in the wall of said body, a projecting neck defining said opening, said projecting neck being provided with an annular groove thereon, a permeable element adapted to cover said opening, means to lockingly secure the outer edge of said permeable element in the annular groove of said projecting neck, and a sec-



ond closable hole in said body to drain the water from said air chamber after osmosis has occurred through said permeable element between the air in said chamber and water in said container.

1,920,221
ADVERTISING DISPLAY DEVICE
Harry D. Stitsell, Highland Park, Ill.
Application January 6, 1933. Serial No. 650,278
16 Claims. (Cl. 40—126)



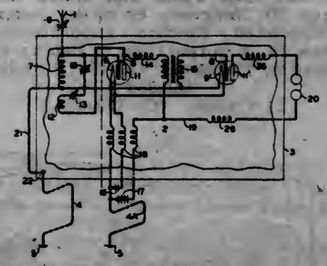
1. An advertising display device comprising a display wall provided with an elongated narrow slit, an endless conveyor located in juxtaposition to the slit, a member adapted to be moved longitudinally of the slit, a link connecting said member to the conveyor and extending through the slit, a motor, operative connections between the motor and conveyor for moving the conveyor and means for intermittently holding the conveyor in stationary position while the motor is running and driving said operative connections.

1,920,222
PROCESS OF TREATING COMESTIBLES
Harden F. Taylor, Scarsdale, N. Y., assignor to The Atlantic Coast Fisheries Company, New York, N. Y., a Corporation of Maine
No Drawing. Application May 9, 1928. Serial No. 276,493. Renewed December 14, 1932
30 Claims. (Cl. 99—14.)

7. A method of treating flesh which comprises subjecting said flesh to a solution containing an alkaline substance and sodium chloride whereby the pH value is increased to such a value that the flesh will exhibit a substantially increased tendency to hold its water in firm bondage without any substantial absorption of extraneous water and freezing said flesh.

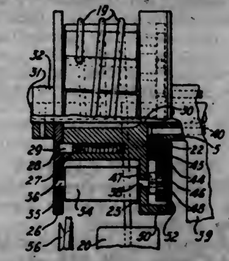
18. Flesh of dead fish having a pH value of approximately 7 and exhibiting a substantially increased tendency to hold its water in firm bondage.

1,920,223
SHORT WAVE SIGNALING APPARATUS
James O. Watkins, San Francisco, Calif., assignor to International Communications Laboratories, Inc., New York, N. Y., a Corporation of New York
Application September 16, 1930
Serial No. 482,190
10 Claims. (Cl. 250—20.)



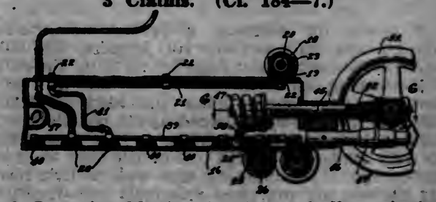
9. A device for preventing external electrostatic capacity from disturbing radio signaling apparatus, comprising a shield for the aparatus, and a ground connection therefor of such length as would produce a voltage node on the shield at the frequency of the signaling wave.

1,920,224
ROTATING MECHANISM
Leo L. Weaver, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York
Application October 6, 1930. Serial No. 486,659
19 Claims. (Cl. 254—176.)



1. In a strand handling apparatus, a rotative member, a roller mounted therein, the axis of the roller being angularly disposed with respect to the axis of the strand.

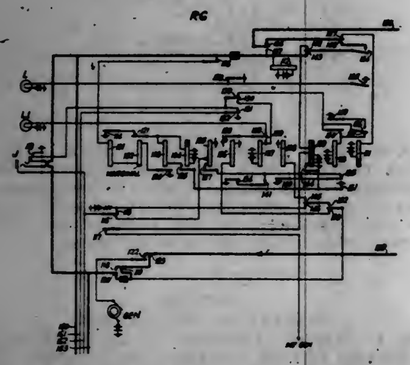
1,920,225
TRACTOR LUBRICATING SYSTEM
Rollin H. White, Cleveland Heights, Ohio
Application May 29, 1930. Serial No. 457,319
3 Claims. (Cl. 184—7.)



1. In a tracklaying tractor, a hollow pivoted side frame, a longitudinally sliding hollow shaft extending forwardly from the side frame, a front idler bearing carried by the sliding hollow

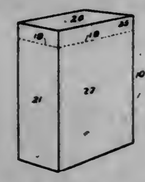
shaft, means establishing communication between the hollow shaft and the interior of the bearing and a lubricating conduit in the hollow side frame connected to the interior of the shaft.

1,920,226
TELEPHONE SYSTEM
John Wicks, Oak Park, and Harry G. Evers, Chicago, Ill., assignors, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a Corporation of Delaware
Application December 11, 1931. Serial No. 580,364
21 Claims. (Cl. 179—27.)



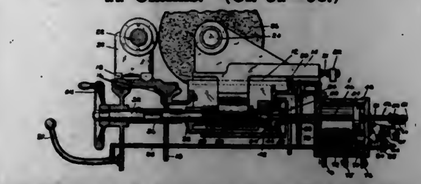
1. In an impulse repeating device, a closed incoming circuit adapted to be momentarily interrupted to transmit an impulse to the device, a normally open outgoing circuit, means responsive to the interruption of the incoming circuit for closing the outgoing circuit, and means responsive to the reclosure of the incoming circuit for momentarily interrupting the outgoing circuit.

1,920,227
STORAGE CARTON
Harold K. Wilder, Battle Creek, Mich., assignor to Kellogg Company, Battle Creek, Mich., a Corporation of Delaware
Application January 11, 1932. Serial No. 585,933
1 Claim. (Cl. 229—51.)



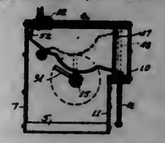
A blank for forming a carton comprising aligned side wall sections for forming the side walls of the carton and flaps for forming the ends of the carton, all except one of the side wall sections of the blank being provided adjacent one end thereof with spaced apart readily fracturable indentations forming a line extending entirely across all except one of the side walls of the carton, the remaining side wall section having therein an unbroken relatively non-fracturable continuous hinge defining formation extending entirely across said remaining section in alignment with and arranged as a continuation of said line of spaced apart readily fracturable indentations.

1,920,228
FEEDING MECHANISM FOR MACHINE TOOLS
Wallace H. Wood, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts
Application September 25, 1929. Serial No. 395,008
11 Claims. (Cl. 51—95.)



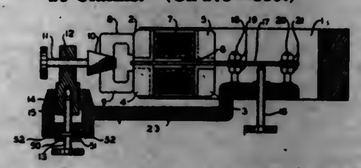
1. Feed mechanism for a machine tool, comprising a carriage, a feed screw connected therewith, means for turning the screw to position the carriage, fluid pressure mechanism for bodily moving the feed screw together with the carriage, a controlling valve for said latter mechanism, and shifting means therefor arranged to be automatically shifted either by the movement of the carriage or feed screw according to which of the two arrives first at a predetermined point in its path.

1,920,229
PERIODIC SWITCH
Arthur C. Wright, Chicago, Ill.
Application February 4, 1931. Serial No. 513,511
5 Claims. (Cl. 200—24.)



1. A periodic switch comprising a bar forming an electric terminal, a plurality of contact arms mounted on said bar, a plurality of independently movable contact members respectively urged into the paths of said arms so as to be moved thereby, separate means for clamping each of said contact members to said bar independently of the other contact members, said clamping means being operable independently of one another so as to permit each of said contact members to be turned on said rod without disturbing the clamping means of said other contact members, and a plurality of separate adjustable means for independently limiting the strokes of said members.

1,920,230
TELEPHONE SYSTEM
Eduard O. Zwietusch, Berlin-Steglitz, Germany, assignor to International Communications Laboratories, Inc., New York, N. Y., a Corporation of New York
Application July 28, 1931, Serial No. 553,592, and in Germany August 15, 1930
16 Claims. (Cl. 175—339.)



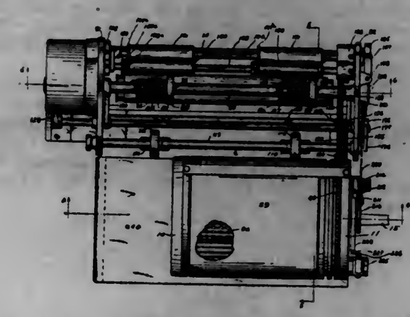
1. A device comprising an armature and pole pieces, means for adjusting the zero position of the armature between said pole pieces, and a single adjusting means for moving the pole pieces toward or away from said armature.

1,920,231
COLOR PREPARATION FOR BUTTER, OLEOMARGARINE, ETC.
Leon Adler, St. Louis, Mo.
No Drawing. Application July 31, 1930 Serial No. 472,191
6 Claims. (Cl. 99—13.)

1. A coloring preparation for coloring edible fats and oils, comprising an oil-free, oil-soluble and water-insoluble coloring matter, water, and sufficient gum to hold said coloring matter in suspension in said preparation, the preparation being in dilute liquid condition.

5. The method of coloring an edible fat or oil comprising the step of incorporating with and dispersing through said fat or oil an oil free aqueous suspension in dilute liquid condition of a suitable coloring material oil soluble and water insoluble dye.

1,920,232
NUMBERING ATTACHMENT FOR PRINTING MACHINES
William R. Allen, Shaker Heights Village, Ohio, assignor, by mesne assignments, to Multigraph Company, Wilmington, Del., a Corporation of Delaware
Application December 23, 1929. Serial No. 416,042
15 Claims. (Cl. 101—77.)



1. The combination of a main printing couple, and a supplemental printing couple, including a plurality of numeral printing devices, each with its own operator, and a common actuator for the operators, and means whereby the operator for one of the devices may be moved to an inactive position relative to its printing device.

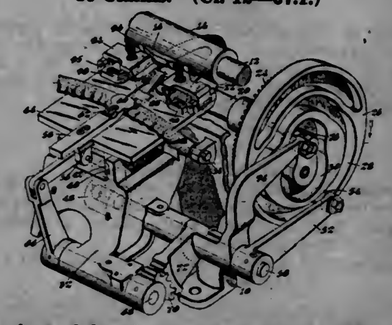
1,920,233
ALUMINUM-COPPER PISTON ALLOY
Robert S. Archer, Lakewood, and Louis W. Kempf, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania
No Drawing. Application October 29, 1929 Serial No. 403,353
6 Claims. (Cl. 75—1.)

1. An aluminum-base alloy containing from about 6 per cent to 8 per cent silicon, about 6 per cent to 8 per cent nickel, about 6 per cent to 8 per cent copper, and characterized by high tensile strength at elevated temperatures and high modulus of elasticity.

1,920,234
METHOD OF PRODUCING ALUMINUM BRONZE POWDER AND LUBRICANTS THEREFOR
Furman C. Arthur, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania
No Drawing. Application May 13, 1932. Serial No. 611,247
7 Claims. (Cl. 134—76.)

2. The method of making aluminum bronze powder comprising working aluminum to reduce the same to a thin flake-like particle form and lubricating the metal during processing with stearic acid and ricinoleic acid.

1,920,235
RAND FORMING MACHINE
Fred Ashworth, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application September 4, 1931. Serial No. 561,205
16 Claims. (Cl. 12—67.1.)

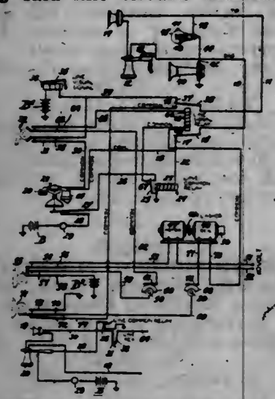


1. A rand forming machine having, in combination, cooperating forming rolls, and rand feeding and bending means associated therewith and including spaced curved benders, and a separate yieldingly mounted presser located adjacent to the operative face of each bender.

1,920,236
POLICE SIGNAL SYSTEM
Gustav F. C. Bauer, Tonawanda, N. Y., assignor to National Police Signal Company, Buffalo, N. Y., a Corporation of New York
Application September 18, 1931 Serial No. 563,501
10 Claims. (Cl. 179—5.)

1. In combination with a common battery telephone system, comprising a central station switchboard, a plurality of substations and a line circuit connecting each of said substations with said switchboard, said line circuits being normally impressed with said common battery telephone current; a substation telephone set in each line circuit, a substation signal device connected to its respective line circuit and actuated by current having a voltage in excess of that of said common battery, a switchboard operator's telephone set, a line circuit switching key associated with each line circuit at said switchboard and adapted to connect said switchboard operator's telephone set with any of said line circuits, a common relay having its windings common to one side of all of said line circuits and also common to one side of said switchboard operator's telephone set, said common relay being energized through any circuit change which permits battery to flow through any of said

line circuits, a source of signal energy having a voltage in excess of said common battery for the operation of said signal devices, means for connecting said line circuits with said source



of signal energy and means actuated through the energization of said common relay for cutting off the supply of signal energy to all of said line circuits and thereby rendering all signal devices in the system inoperative.

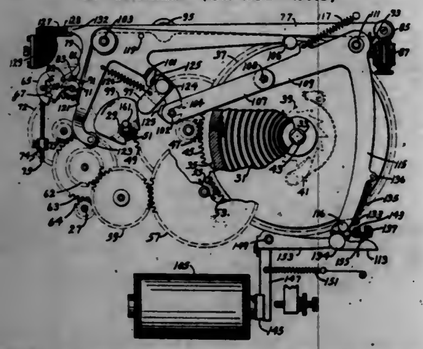
1,920,237

SIGNAL RECORDER

Clarence E. Beach, Boston, and Foster E. Weld, Newton, Mass., assignor to The Gamewell Company, Newton Upper Falls, Mass., a Corporation of Massachusetts

Application April 1, 1929. Serial No. 351,725

30 Claims. (Cl. 234—27.5)



5. In a signal mechanism, the combination with recording mechanism and tape feeding mechanism, of a constantly impelled driving train, a governing mechanism comprising a bell-crank lever having a stop arm and a restoring arm, said stop arm having an offset portion, and a tape feed controlling member mounted in the offset portion thereof.

1,920,238

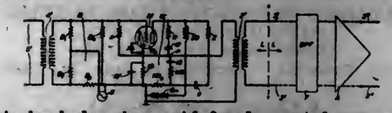
WAVE TRANSLATING SYSTEM

Harold S. Black, Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York

Application April 3, 1931. Serial No. 527,371

20 Claims. (Cl. 179—171.)

1. The method of modulation which comprises so combining fundamental waves, including waves to be modulated and modulating waves, as to produce a resulting wave containing fundamental components having the same frequencies as said fundamental waves and modulation products having frequencies differing from said fundamental components, isolating said modulation products from said fundamental compo-



nents by balancing said fundamental waves exclusive of modulation products against said resulting wave in such phase and amplitude relative to said fundamental components as to neutralize said fundamental components in said resulting wave, and utilizing certain of said modulation products.

1,920,239

PROCESS OF PREPARING CELLULOSE

Antonio Bayarte Bori and José Martinez Estape, Habana, Cuba, assignors, by direct and mesne assignments, to said Estape

No Drawing. Application May 14, 1931

Serial No. 537,490

16 Claims. (Cl. 92—14.)

1. The process of obtaining substantially pure alpha cellulose which comprises the step of digesting canes selected from a group consisting of those scientifically known as Arundo Donax (Castilla Cane) Gynerium Saccharoides (Carrizo) Gynerium Sagittatum (Brava Cane) Malacca Cane, Otate, Feathergrass, Henequen and Ramie, in an alkaline solution comprising an alkaline hydroxide, sodium sulphide, and ammonia to extract the desired quality of cellulose from the cane under treatment.

1,920,240

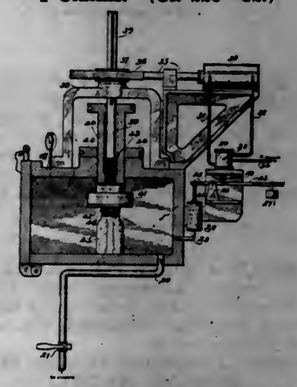
APPARATUS FOR VACUUM SEALING SCREW CAP CONTAINERS

Hugh S. Brady, Wheeling, W. Va., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va., a Corporation of West Virginia

Application September 7, 1928

Serial No. 304,546

4 Claims. (Cl. 226—82.)



1. An apparatus for vacuumizing screw cap containers, including a sealing closet, a capping head for engaging the screw caps on the containers, means for automatically rotating said head, and means operated by the desired vacuum in the sealing closet to control the automatic operation.

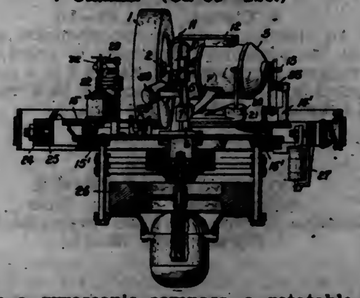
1,920,241

GYROSCOPIC COMPASS

Arthur E. Brewerton, Purley, England, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York

Application November 16, 1931, Serial No. 575,235, and in Great Britain July 26, 1930

7 Claims. (Cl. 33—226.)



1. In a gyroscopic compass, a rotatable element, a spinning motor for spinning the same about a normally horizontal axis and having its armature mounted on said element and its stator journaled thereon and supported thereby, pendulous means secured to the stator for preventing reactive rotation thereof and for damping the compass, and a spherical bearing for supporting said element, armature and stator for turning about a vertical axis and for oscillation about a horizontal axis at an angle to the spinning axis and also furnishing the spinning bearing for said element and armature.

1,920,242

HYDROGENATION OF MONO-VINYLACETYLENE

William S. Calcott, Penns Grove, N. J., Albert S. Carter, Wilmington, Del., and Frederick B. Downing, Carneys Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware

No Drawing. Application April 24, 1931

Serial No. 532,684

20 Claims. (Cl. 260—170.)

1. The process which comprises reacting monovinylacetylene and hydrogen in the presence of a hydrogenating catalyst.

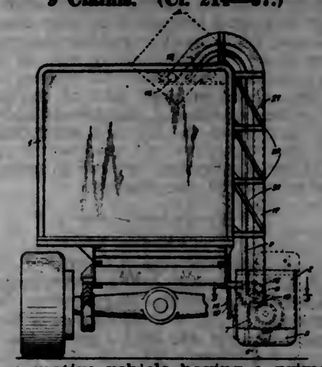
1,920,243

LOADING VEHICLE

Louis Casper, Richmond Hill, N. Y.

Application March 31, 1932. Serial No. 602,102

9 Claims. (Cl. 214—67.)



1. In a motive vehicle having a prime mover therein to propel the same; an electric generator mounted in said vehicle which is also operated by said prime mover; a loading body attached to and made a part of said vehicle; a movable hopper or the like in operable relation with said vehicle and adjacent to said loading body; electric motor means attached to said hopper and integral thereto, said electric motor means energized by the generator aforesaid to cause said hopper to raise and discharge the contents therein into said loading body and then to lower the hopper aforesaid to its initial starting position.

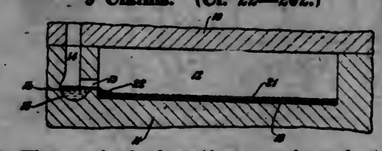
1,920,244

METHOD OF MAKING CAST PRODUCTS

Donald S. Connelly, Wooster, and Theodore J. Hahn, Canton, Ohio, assignors to Wooster Products Inc., Wooster, Ohio, a Corporation of Ohio

Application June 2, 1932. Serial No. 615,172

9 Claims. (Cl. 22—202.)



1. The method of casting metal products embodying an outer abrasive wearing portion, which includes sprinkling a mold surface with pulverulent inorganic material having a relatively low melting point, spreading a layer of granular abrasive material over the pulverulent inorganic material, and slowly introducing molten metal into the mold.

1,920,245

NOZZLE

James Frank Cranford, St. Petersburg, Fla.

Application July 15, 1932. Serial No. 622,746

1 Claim. (Cl. 128—239.)



A convertible bath device comprising a bowl, a threaded portion on the large end of the bowl to detachably receive a spray pan, a neck formed on the other end of the bowl to receive a hose, a nipple including a threaded end and being secured in the neck with the threaded end extending into the bowl to threadedly receive a syringe nozzle when the spray pan is removed from the bowl.

1,920,246

PREPARATION OF ALKYL HALIDES

Herbert Wilkins Daudt, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware

No Drawing. Application June 6, 1930.

Serial No. 459,616

15 Claims. (Cl. 260—166.)

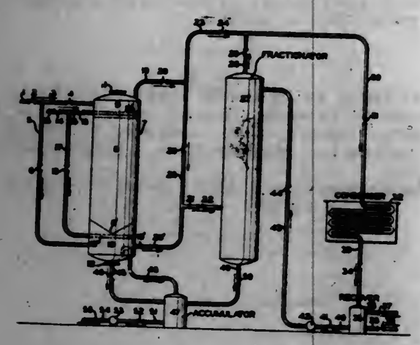
8. The process which comprises treating an aliphatic monohydroxy alcohol with hydrogen chloride in the presence of a solid alcohol-dehydrating metal oxide maintained at a temperature of substantially 260–280° C.

1,920,247

TREATMENT OF HYDROCARBON OILS

Roland B. Day, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota

Application June 8, 1931. Serial No. 542,738
18 Claims. (Cl. 196—35.)



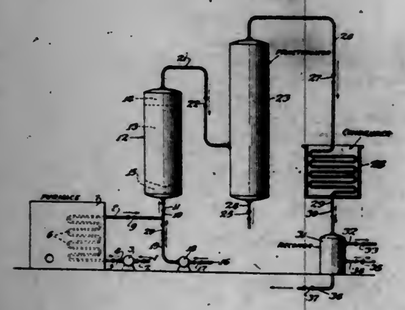
1. A process for refining hydrocarbon oils which comprises treating the oil with added aqueous hydrogen chloride in the presence of a free metal selected from the group consisting of aluminum, manganese, zinc, chromium, iron cadmium, cobalt, nickel, tin, lead, antimony, bismuth, arsenic, copper and mercury.

1,920,248

PROCESS FOR REFINING GASOLINE-CONTAINING DISTILLATES

Roland B. Day, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of Delaware

Application May 25, 1932. Serial No. 613,517
5 Claims. (Cl. 196—35.)



3. A process for refining gasoline-containing distillates which comprises treating the distillate with added aqueous hydrogen chloride in the presence of zinc and copper at a temperature substantially above the normal initial boiling point of gasoline while under sufficient superatmospheric pressure to preclude substantial normal vaporization and to maintain a substantial portion of the gasoline in liquid phase.

1,920,249

ALUMINUM BASE ALLOY CONTAINING COPPER, NICKEL, AND SILICON

Walter A. Dean, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania

No Drawing. Application July 22, 1931.
Serial No. 552,557
6 Claims. (Cl. 75—1.)

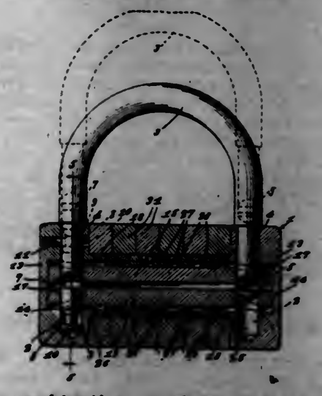
1. An aluminum-silicon-copper-nickel alloy in which the elements named are in substantially the following proportions: Nickel 2 to 4 per cent, copper 5 to 8 per cent, silicon 5 to 8 per cent, and aluminum 77 to 88 per cent.

1,920,250

COMBINATION PADLOCK

Antonio Diaz, Habana, Cuba

Application February 29, 1932. Serial No. 595,916
2 Claims. (Cl. 70—113.)



2. A combination padlock comprising end members having sockets in opposing faces thereof, a connecting element received in the sockets and secured to the end members and having oppositely disposed lug grooves and a single key groove, said end members and element having alining sockets, a shackle received by the last-named sockets and having notches, a toothed key slidable in the key groove to be engaged and disengaged with the notches, spacing elements on said connecting element and having offsets fitting in the lug grooves and each provided with a notch to receive the key, operating members mounted on the spacing elements for rotation relative thereto, locking elements having spaced ends to receive the key and journaled on the connecting element and frictionally engaging the operating members to be rotated thereby, one of the end members having a chamber to receive one end of the key, a lug on said end of the key and located in the chamber, a plunger slidable in the chamber to engage the lug and extending exteriorly of the respective end member to be manually slid for positioning the key in engagement with the notches of the shackle.

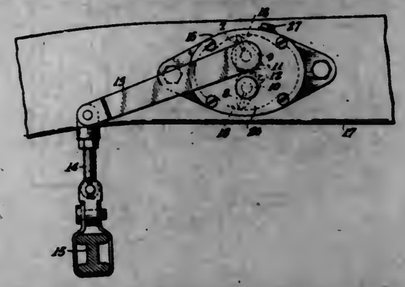
1,920,251

SHOCK ABSORBER

George A. Gillen, Bronx, N. Y., assignor, by mesne assignments, to Houde Engineering Corporation, Buffalo, N. Y., a Corporation of New York

Application August 28, 1931. Serial No. 559,818
7 Claims. (Cl. 188—89.)

1. A shock absorber comprising a casing for holding a checking fluid, a rocking piston journalled to operate in said casing, said casing having a wall surface cooperatively opposed to the free end of the rocking piston and extending eccentrically to the center of piston movement, said piston having a hub portion at the back of the



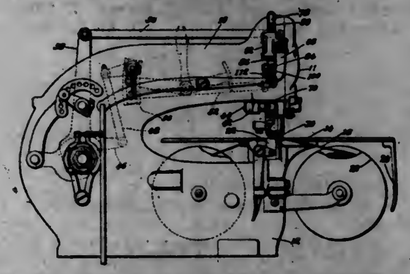
same and means in cooperative relation with said hub portion for preventing fluid passage about the back of the piston, and including a second rocking piston having a hub portion geared to the back of the first piston.

1,920,252

PRESSER FOOT MECHANISM

Perley R. Glass, Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey

Application July 8, 1930. Serial No. 466,412
16 Claims. (Cl. 164—88.)



16. In a perforating machine, a frame, a rod slidably mounted in said frame, a presser-foot on said rod, an abutment carried by said rod at one side of the frame, a power-operated pitman having springs interposed between said pitman and said abutment whereby the operation of the pitman moves the rod to and fro, an adjustable stop upon said abutment, a treadle-operated lever arranged for engagement with said stop whereby actuation of the lever will move the presser-foot away from the work, and springs surrounding said rod for cooperation with opposite sides of said frame, thereby to prevent overthrow of the rod.

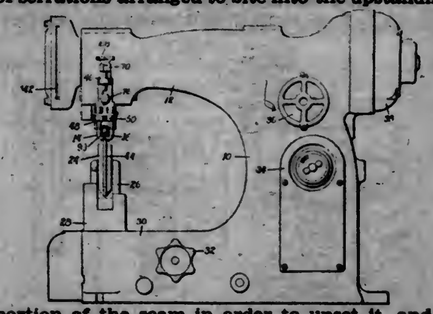
1,920,253

SEAM FINISHING MACHINE

Perley R. Glass, Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey

Application January 30, 1931. Serial No. 512,401
37 Claims. (Cl. 69—7)

1. In a seam pressing machine, in combination, a work support, and a seam pressing tool cooperating with said support to flatten the seam and a piece of work fed therebetween, the work engaging face of said tool comprising a plurality of serrations arranged to bite into the upstanding



portion of the seam in order to upset it, and a plurality of flats for smoothing the seam.

1,920,254

PYROTECHNIC COMPOSITION FOR PRODUCING YELLOW SMOKE

George U. Graff, Washington, D. C.

No Drawing. Application January 18, 1933
Serial No. 652,430
5 Claims. (Cl. 52—24)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

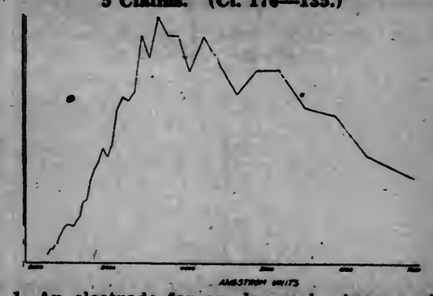
5. A pyrotechnic composition for producing yellow smoke, comprising potassium bichromate, an oxygen-yielding salt of bismuth and magnesium substantially in the proportions of 13:4:3, respectively.

1,920,255

ELECTRODE FOR THERAPEUTIC ARC LAMPS

Clarence E. Greider, Lakewood, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York

Application May 22, 1930. Serial No. 454,759
5 Claims. (Cl. 176—135.)



1. An electrode for arc lamps having a radiation rich in waves of lengths between about 2800 and 3100 A consisting of a cored carbon, the core of which contains flame material consisting of the metals iron, chromium, manganese and titanium in approximately equal proportions by weight.

1,920,256

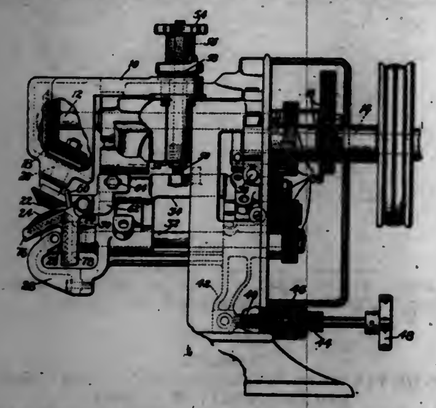
APPARATUS FOR ASSEMBLING HEEL-LIFTS AND RANDS

John R. Hadaway, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey

Application December 15, 1930. Serial No. 502,400
23 Claims. (Cl. 12—67.1)

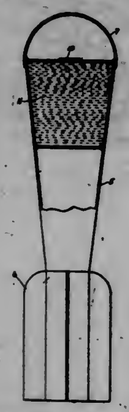
1. An apparatus for assembling heel-lifts and rands comprising a rotatable roll having a conical

lift-engaging surface, a co-operating rotatable roll having a conical rand-engaging surface,



means for rotating the rolls and a lift- and rand-gage associated with the rolls, both of said rolls decreasing in diameter outwardly from the gage.

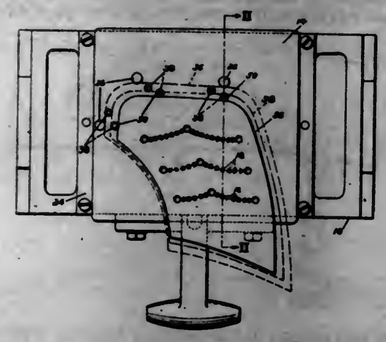
1,920,257
PRACTICE BOMB
Herman E. Halland, United States Navy
Application January 4, 1932. Serial No. 584,609
1 Claim. (Cl. 102—26.)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A practice bomb including a fragile body, a fragile nose member overlapping and secured to the body to normally restrain the same from spreading, said nose being adapted to become torn asunder from the body solely by external force due to impact, and a reservoir within the body adapted to be ruptured when the nose is freed from the body.

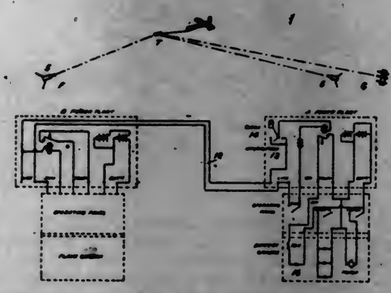
1,920,258
PERFORATING DIE
Charles E. Hardenbrook, Jr., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application December 11, 1931. Serial No. 580,386
9 Claims. (Cl. 164—59.)

1. A perforating die comprising a base, punch members carried by the base, a plurality of sleeves resiliently mounted for movement heightwise of the base, and removable gage members



positioned in the sleeves for locating work in operative relation with respect to the punch members.

1,920,259
METHOD FOR DETERMINING AND MEASURING DISTANCES
Albert M. Jackson, United States Army, Brooklyn, N. Y.
Application July 12, 1929. Serial No. 377,896
2 Claims. (Cl. 33—1.)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

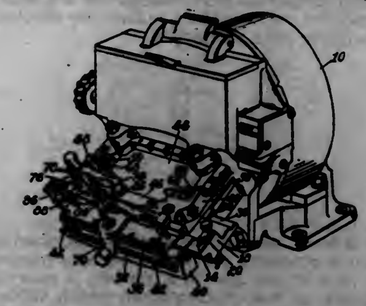


2. A system of determining the deviations in three perpendicular planes of an object with respect to a moving object which consists in taking a motion picture with a camera of the objects from the ends of a base line, electrically synchronizing the shutters of the cameras, producing a time record image on the films whereby the films are marked for comparative identity as to time, and then measuring the deviations between the objects on synchronously taken films.

1,920,260
MECHANISM FOR SUPPLYING FASTENINGS
Bernhardt Jorgensen, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application December 6, 1930. Serial No. 500,557
24 Claims. (Cl. 1—6.)

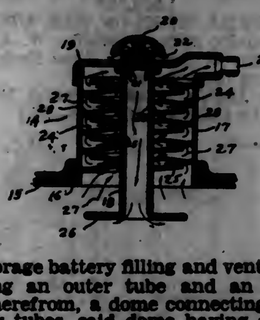
1. In mechanism of the class described, a plurality of raceways for headed fastenings, and a plurality of members movable simultaneously at

the will of the operator to press on the tops of the heads of fastenings in the several raceways



for preventing delivery of fastenings from the raceways.

1,920,261
STORAGE BATTERY VENTILATING PLUG
Robert A. Lavender, United States Navy
Application September 26, 1931
Serial No. 565,470
6 Claims. (Cl. 136—177.)
(Granted under the Act of March 2, 1883, as amended April 30, 1928; 370 O. G. 757)

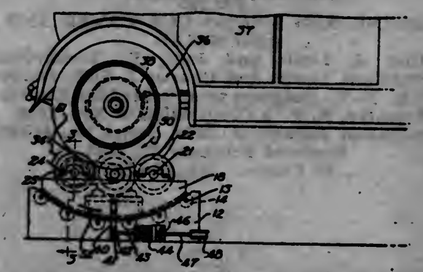


1. A storage battery filling and ventilating plug comprising an outer tube and an inner tube spaced therefrom, a dome connecting said outer and inner tubes, said dome having an air passage leading to an air exhausting passage, baffle means in the space between the tubes comprising an inwardly and upwardly inclined spiral plate projecting from said outer tube and an outwardly and upwardly inclined spiral plate projecting from said inner tube and inter-threaded with said first-mentioned plate forming a tortuous air passage therebetween, said inner tube providing an entrance air passage to the battery.

1,920,262
ALUMINUM ALLOY
Louis W. Kempf and Walter A. Dean, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania
No Drawing. Application July 23, 1932
Serial No. 624,345
2 Claims. (Cl. 75—1.)

2. An alloy consisting of from 9 to about 14 per cent by weight of copper, from about 5 to about 12 per cent by weight of silicon, and from about 2 to about 6 per cent by weight of nickel, the balance being substantially aluminum, said alloy being characterized by an internal structure relatively highly resistant to deterioration of properties under the influence of elevated temperatures.

1,920,263
APPARATUS FOR MEASURING BRAKING COMPONENTS
Harold W. Langbein, Los Angeles, Calif., assignor, by direct and mesne assignments, of one-half to Fabian E. Macabee and Edward L. Macabee, Hayward, Calif., and one-half to Harry C. Schroeder, Oakland, Calif.
Application August 24, 1927. Serial No. 215,106
4 Claims. (Cl. 265—25)



4. In combination, a frame, reaction means comprising supporting and driving means for supporting and driving a wheel having a brake associated therewith and mounted in said frame to pivot about a fixed point and gravitationally retained in a normal position, and measuring means associated with said reaction means and actuated by the displacement from normal of said reaction means for measuring the effectiveness of the brake to be tested.

1,920,264
VALVE PIN WASHER AND FERRULE MAKER AND ASSEMBLER
Arthur J. Lewis and John W. Richardson, Stratford, Conn., and Charles John Spill, Garden City, N. Y., assignors to A. Schrader's Son, Inc., Brooklyn, N. Y., a Corporation of New York
Application August 3, 1929. Serial No. 383,398
20 Claims. (Cl. 29—33.)



1. A machine of the class described, comprising pin feeding means, a rotatable dial having peripheral recesses for receiving the pins, means disposed intermediate the pin feeding means and the dial for receiving a fed pin in one position and delivering it to a recess in the dial in reverse position, and means for pushing the pin radially inwardly into the dial recess, the movements of the various means being intermittent and operatively timed.

20. An assembling machine of the class described, comprising a conveyer having a plurality of spaced recesses for receiving a valve pin having a cup mounted thereon, said conveyer being intermittently movable to present the recesses successively to spaced apart stations whereat the following mechanisms are operable; means for

feeding a pin to each recess, means for applying a washer upon a pin, means for applying a ferrule to said pin over said washer, means for operating on said assembled parts to prevent their separation, and means for discharging the assembled units from the recesses, the various mechanisms being intermittently time-controlled.

1,920,265

SPRING AND SPRING CUP MAKER AND ASSEMBLER

Arthur J. Lewis and John W. Richardson, Stratford, Conn., and Charles J. Spill, Garden City, N. Y., assignors to A. Schrader's Son Inc., Brooklyn, N. Y., a Corporation of New York

Application January 2, 1930, Serial No. 418,004
Renewed February 17, 1933
19 Claims. (Cl. 29—33.)



1. A machine of the character described, comprising a conveyor for carrying spaced pins in upright position, said conveyor being intermittently movable to successively present pins at a station, means at said stations for presenting a coil spring above a pin at said station and releasing said spring so that it will drop over the pin by the action of gravity on the spring, and means movable downwardly over the spring to insure its positioning upon the pin.

12. A machine of the character described, comprising a rotatable dial having a plurality of spaced peripheral, upright recesses, and a circumferential groove in its outer wall, the upright recesses being adapted to receive valve pins in upright position and the circumferential groove being adapted to receive an arcuate guiding element for supporting a cup positioned within an upright recess, said dial being intermittently movable to present the recesses successively to different stations, means at one station for feeding a pin to each upright recess, means at a subsequent station for applying a perforated cup into a vertical recess to seat upon the arcuate guiding element, means at a following station for moving the pin upwardly through the perforation in the cup and means for swaging the upper end of the pin, the arcuate guiding element extending in the circumferential groove between the last two named stations and serving to support the fed cup as it is moved by the dial from the cup-applying station to the pin-swaging station.

1,920,266

ASSEMBLING MACHINE

Arthur J. Lewis and John W. Richardson, Stratford, Conn., Charles J. Spill, Garden City, N. Y., and Harry B. Haven, Milford, Conn., assignors to A. Schrader's Son, Inc., Brooklyn, N. Y., a Corporation of New York

Application January 18, 1930. Serial No. 421,772
30 Claims. (Cl. 29—33.)

1. A machine of the character described, comprising an intermittently movable conveyor for successively presenting valve pins or the like to a station, means for presenting a valve seat member above a pin at said station and releasing said seat member so that it will drop over the pin by the action of gravity on said seat member, and means at said station for aligning the pin and the valve seat to insure the positioning of the latter over the former.



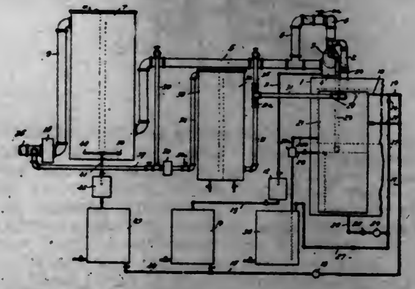
30. A machine of the character described, comprising a conveyor for intermittently presenting valve pins or the like to a station, a raceway in proximity to said station down which valve seat members are fed, interrupter means at the lower end of said raceway for releasing the valve seat members singly in timed relation, means for receiving a released valve seat member and presenting it in superposed relation to a valve pin at said station, and means at said station for centering the pin and guiding the valve seat member over said pin as said seat member moves downwardly, said interrupter means being operable through the movement of the pin centering means.

1,920,267

DISTILLATION OF TAR, ETC.

Stuart Parmelee Miller, Tenafly, N. J., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey

Application March 2, 1927. Serial No. 171,955
18 Claims. (Cl. 202—30.)



1. The method of distilling a material of the group consisting of tar, tar oils, and pitches which comprises providing a body of the material, to be distilled in a still, passing through the vapor space of the still above the body of material therein hot coal distillation gases at a temperature sufficient to effect distillation of the material, continuously withdrawing the material from the body thereof and bringing it into intimate contact with the hot gases in the vapor space of the still, and drawing off the resulting admixed gases and vapors from the still and recovering condensable constituents therefrom.

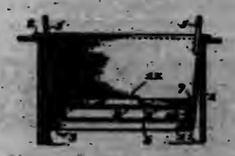
1,920,268

METAL COFFEE RECEPTACLE

Saburo M. Moriya, Arden, Del., assignor of one-half to Frank L. Grier, Milford, Del.

Application May 18, 1932. Serial No. 612,108
7 Claims. (Cl. 53—3.)

1. A metal coffee receptacle comprising a tapered shell having an outwardly extending flange at its upper end and an inwardly extending annular groove about its lower end, a perforated plug having a tapered wall extending in the same plane with the tapered shell and adapted to be received



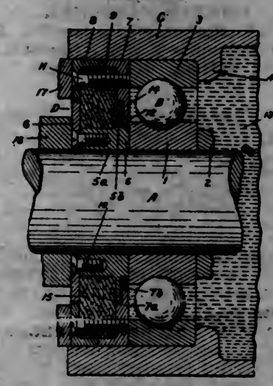
within said annular groove, and a filter cloth provided with an edge binding clamped between said plug and groove.

1,920,269

PACKING UNIT

Edward A. Murphy, United States Army, Raritan Arsenal, Metuchen, N. J.

Application December 10, 1930. Serial No. 501,328
4 Claims. (Cl. 286—5.)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



4. A packing unit comprising annular members of different diameters, the member having the larger diameter being internally channelled and the other member being externally channelled whereby an annular chamber is provided when the members are assembled rim to rim, a packing within the chamber and covering the rim joints between said members, and spring means for pressing the packing against the sides of said members.

1,920,270

REFINING AND PURIFICATION OF HYDROCARBON OILS

Jacque C. Morrell, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota

No Drawing. Original application March 25, 1926, Serial No. 97,461. Divided and this application January 9, 1931. Serial No. 507,764
5 Claims. (Cl. 196—35.)

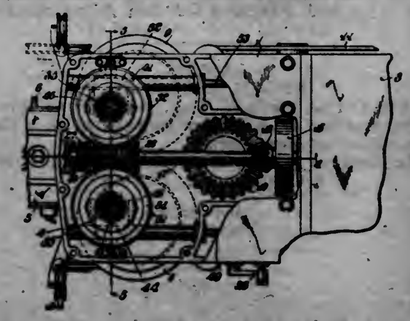
1. A process for purifying gasoline-containing distillates which comprises treating the distillate at elevated temperature and while maintained substantially in liquid phase with hydrogen chloride in the presence of added metal selected from the group consisting of zinc, tin and iron.

1,920,271

MINING MACHINE

Charles F. Osgood, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts

Application October 20, 1930. Serial No. 489,890
21 Claims. (Cl. 262—30.)



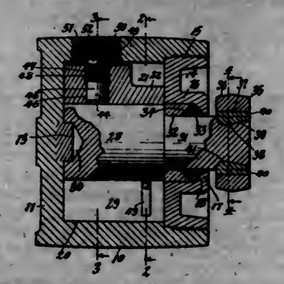
1. In a mining machine, a machine frame adapted to rest upon and slide in any direction over the mine floor, a horizontal motor carried by said frame having its power shaft extending longitudinally of the machine, cutting mechanism driven from one end of said motor including a kerf cutter projecting forwardly from said frame, and feeding mechanism driven from the same end of said motor including relatively rotatable feed operating and controlling members disposed with their axes parallel to a transverse vertical plane and disposed wholly above the uppermost plane of said kerf-cutter, said members each adapted to cooperate directly with flexible feeding means, and mechanism for effecting rotation of said members either separately or simultaneously at relatively high speed or at relatively low speed whereby one member may be driven at a relatively low speed while the other member is simultaneously driven at a high speed.

1,920,272

SHOCK ABSORBER

Ralph F. Peo, Buffalo, N. Y., assignor to Houde Engineering Corporation, Buffalo, N. Y., a Corporation of New York

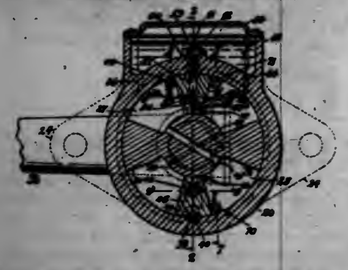
Application March 5, 1931. Serial No. 520,218
8 Claims. (Cl. 188—89.)



1. A hydraulic shock absorber comprising a housing enclosing a cylindrical space, a partition in said housing dividing said space into a lower segmental working chamber and an upper replenishing chamber, the underside of said partition having a segmental bearing surface which is concentric with said working chamber, a circumferential groove in said bearing surface, and a vertical valve seat intersecting said groove, a

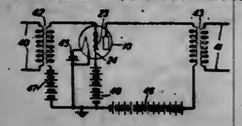
regulating valve arranged in said seat and having a screw connection with said partition for moving said valve more or less across said groove, a piston oscillating in said working chamber and having a hub engaging said bearing surface and extending across said groove, said housing provided with a filling opening above said regulating valve and a closure for said filling opening.

1,920,273
SHOCK ABSORBER
Ralph F. Poe, Buffalo, N. Y., assignor to Houde Engineering Corporation, Buffalo, N. Y., a Corporation of New York
Application May 4, 1931. Serial No. 534,724
3 Claims. (Cl. 188—89.)



1. A hydraulic shock absorber comprising a hollow body having a circular inner side, a partition arranged within the body and forming a wall of a working chamber which is adapted to contain a resistance liquid, said partition being open at one end and closed at the other, a locating ring formed integrally with said partition and engaging the interior of said body and a piston adapted to oscillate in said working chamber.

1,920,274
WAVE TRANSLATING SYSTEM
Howard A. Pidgeon and James O. McNally, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application June 5, 1931. Serial No. 542,252
8 Claims. (Cl. 179—171.)



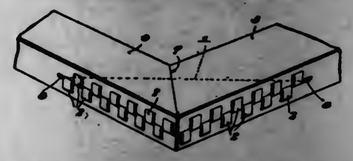
1. A circuit comprising a vacuum tube having a cathode, an anode, a control grid and a space-charge grid in substantially the same space relation as said control grid with respect to said anode and said cathode, means for applying a positive potential of as much as one hundred volts to said anode, means for applying a negative biasing potential of as much as twenty volts to said control grid, means for applying a varying potential to said control grid, and means for applying a positive biasing potential of as much as twenty-five volts to said space-charge grid, said potentials having such values and each of said grids having its parts so located relatively to the parts of the other grid with respect to said cathode and said anode that when the potential of said control grid is near its most negative value the control grid effectively neutralizes the action of the space-charge grid in reducing the field due to space-charge near the cathode and shields the space-charge grid, and when the control grid potential is near its closest approach to zero the space-charge grid effectively reduces the space-charge field near the cathode.

1,920,275
METHOD OF FORMING METAL TYPE TUBES
Frank H. Poeppelmeier, Dayton, Ohio, assignor, by mesne assignments, to Set-O-Type Manufacturing Company, Cleveland, Ohio, a Corporation of Delaware
Original application May 13, 1927, Serial No. 191,099. Divided and this application February 5, 1931. Serial No. 513,501
2 Claims. (Cl. 153—2)



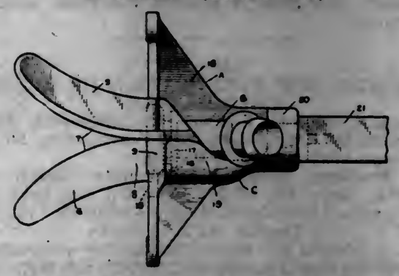
1. The herein described method of forming a type tube from metal, which consists in first shearing a metal strip to the length required, with an ear formed on one end and prongs at its other end, and then bending said strip to channel form.

1,920,276
CORNER FASTENER
John M. Richens, Jacksonville, Fla.
Application November 4, 1931. Serial No. 573,031
3 Claims. (Cl. 20—92.)



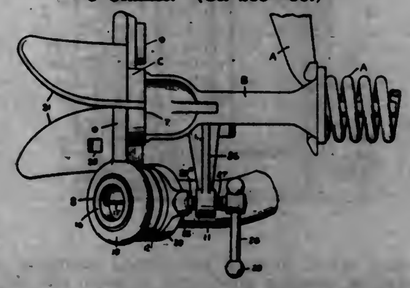
1. A corner fastening member comprising a body portion consisting of a right triangle, said body portion having ears struck up on the edges adjacent the right angle, the bases of certain of said ears being bent at substantially 45° from the plane of the body portion, certain of said ears being bent toward one face and the other ears being bent toward the other base and all of the said ears having inwardly bent ends, provided with teeth.

1,920,277
AUTOMATIC TRAIN PIPE CONNECTER HEAD
Joseph Robinson, New York, N. Y.
Application June 24, 1929, Serial No. 373,325
Renewed October 21, 1932
10 Claims. (Cl. 285—58.)



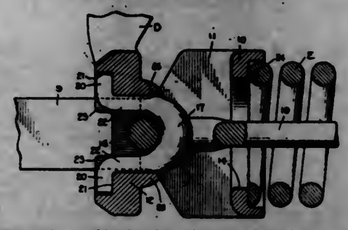
1. In combination, an automatic train pipe connecter head having an opening extending therethrough, a conduit mounted in said opening, means for preventing longitudinal movement of said conduit in said opening, said means comprising a projection rigid with the head extending inwardly toward the center of said opening and engaging said conduit, said head having a slot or way extending laterally from said opening, and also extending from the front face of the head rearwardly, said slot being of sufficient width to permit passage of said conduit laterally, and whereby said conduit may be moved laterally through said slot and out of said engagement with said projection and out of said opening.

1,920,278
AUTOMATIC TRAIN PIPE CONNECTER
Joseph Robinson, New York, N. Y.
Application July 27, 1929, Serial No. 381,493
Renewed October 21, 1932
8 Claims. (Cl. 285—58.)



8. Means for removably locking a conduit in line with an opening in a train pipe connecter head, said means comprising a part on one side of said opening, a member carried by said conduit and rotatable into engagement with said part, a threaded device arranged on the other side of said opening and movable into and out of engagement with said member whereby said member and conduit are forced forwardly toward the opening in said head.

1,920,279
AUTOMATIC TRAIN PIPE CONNECTER
Joseph Robinson, New York, N. Y.
Application July 16, 1930, Serial No. 468,434.
Renewed October 21, 1932
11 Claims. (Cl. 285—58.)



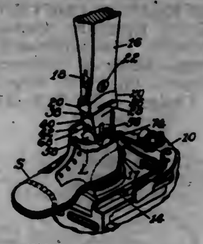
1. An automatic train pipe connecter comprising in combination a coupling head, a hollow member extending rearwardly therefrom, a bracket extending from above said member downwardly into the hollow thereof, said lower portion of the bracket being perforated, said member being adapted to move vertically relative to the lower end of said bracket when said connecter is coupled, an anchor device in the perforation in said bracket, a tie rod pivotally engaging said anchor device, and a spring held in position on said member by said tie rod to yieldingly extend said coupling head.

1,920,280
SUBMARINE PROPULSION
Lawrence Y. Spear, Hugo E. Grieshaber, and Ernest Nibbs, New London, Conn., assignors to Electric Boat Company, Groton, Conn., a Corporation of New Jersey
Application September 24, 1932
Serial No. 634,694
14 Claims. (Cl. 114—16.)



1. In combination, a substantially cylindrical hull section, a transverse floor, frames supporting the floor from the lower side of the hull section, a plurality of engine-generator units disposed two abreast in said hull section, said units comprising each an engine and a generator having shafts disposed vertically, the engine of each unit being disposed substantially above the floor and the generator of each unit disposed substantially below the floor, and a vertical step bearing disposed between the engine and generator for sustaining the vertical load on the generator shaft.

1,920,281
SHOE SUPPORT
John F. Standish, Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application March 27, 1931. Serial No. 525,821
13 Claims. (Cl. 1—32.)

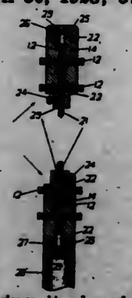


1. In a shoe-support, the combination with a jack-post, of a bed-plate arranged for contact with the cone of a last, a mounting member for the bed-plate arranged to extend therefrom through and outside a jacked lasted shoe, said member being smaller in its transverse dimension longitudinally of the jacked shoe than is the contact-area between the last-cone and bed-plate, and a slide movable on the jack-post and carrying the mounting member.

1,920,282
PROCESS OF PRODUCING CHLORINATED HYDROCARBON LIQUIDS
Fernando Somoza Vivas, Pelham Manor, N. Y.
No Drawing. Application September 10, 1931. Serial No. 562,196
7 Claims. (Cl. 260—166.)

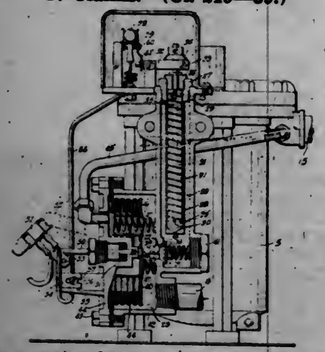
1. The process of producing a non-inflammable solvent and dry cleaning agent which comprises subjecting a mixture of ethane, methane, propane, and butane gases to chlorine gas while under pressure in excess of substantially one hundred pounds per square inch and in the presence of a catalyzer for chlorination.

1,920,283
MEANS FOR CLEANING BOILER AND CONDENSER TUBES
Guysbert B. Vroom, United States Navy
Original application November 30, 1929, Serial No. 410,840. Divided and this application March 19, 1931. Serial No. 523,527
8 Claims. (Cl. 15—104.20.)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. A brush having its brush surface formed of the ends of a plurality of straight portions of a cable, a retaining member having a plurality of holes therein each having driven therein one of said cable portions, each portion having the normal lay of its strands substantially maintained in its length within its hole and having a relatively short cleaning end projecting from its hole and in which projection the normal lay of its strands is unlaid, and said portions being unrestrained except for their fit in their holes.

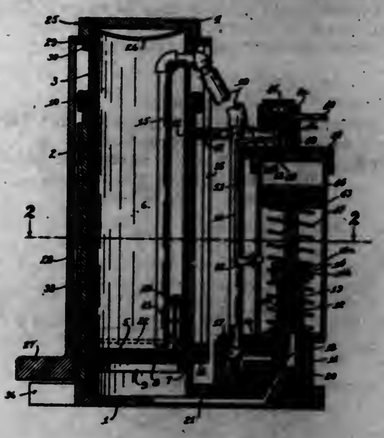
1,920,284
WATER HEATER CONTROL
Burling D. Wells, Danbury, Conn., assignor to Harvey Hubbell, Incorporated, Bridgeport Conn., a Corporation of Connecticut
Application March 17, 1930. Serial No. 436,263
17 Claims. (Cl. 219—39.)



1. In a water heater, a heating device, inlet and outlet connections for the water to and from said device, a pressure operated motor in said outlet, a normally closed valve between the motor and the heating device in position to be operated by said motor, and means for controlling the heating device operated by said motor.

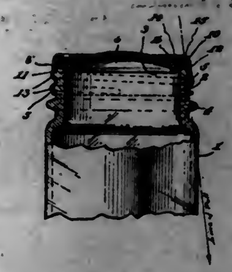
1,920,285
FLUID MOTOR
Charles E. Wilkins and Arthur W. Rafferty, Sacramento, Calif.
Application October 27, 1930. Serial No. 491,420.
3 Claims. (Cl. 121—164.)

1. A fluid actuated motor for the described purpose comprising a cylinder having an inlet and an adjacent outlet; a piston operable therein; a pair of oppositely disposed independent poppet valves controlling said inlet and outlet, each valve having a head and a stem and said valves being shifted in one direction by contact between the head of one of them and said piston at one end of its stroke; means for releasably holding one



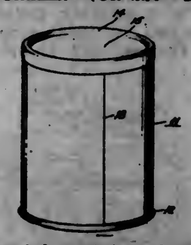
of said valves in open and closed positions; an operating member positioned between the stems of said valves for engagement with both; and means connected with said operating member and contacted by said piston at the other end of its stroke for shifting said valves in the other direction.

1,920,286
TWO-PIECE JAR CLOSURE
John J. Williams, Wheeling, W. Va., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va., a Corporation of West Virginia
Application July 21, 1931. Serial No. 552,255
4 Claims. (Cl. 215—97.)



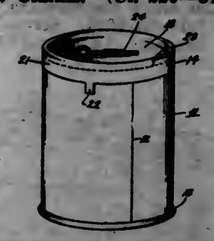
1. The combination with a glass container, a closure seated on the container mouth, an annular bead on the top of the closure adjacent the edge thereof, the edge of the closure being in substantial alignment with the neck of the container, threads projecting from the neck of the container, a fastener ring, an inturned portion at the top of the ring engaging over said bead, the skirt of said ring flaring outwardly and provided with threads to engage the threads of the container to clamp the closure in sealing position, the line of pull being through the center of said bead and the inturned portion of the ring engaged thereover, for the purpose described.

1,920,287
CONTAINER CLOSURE
John M. Young, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey
Application July 10, 1929. Serial No. 377,142
4 Claims. (Cl. 220—42.)



1. A sheet metal container having a peripherally curved body and cover, said cover having a depending flange devoid of inward projections and designed for application to said body, the surface of the body which engages the cover being devoid of outward projections, the internal diameter of the cover flange being so proportioned to the external diameter of the body at its end that when the aforesaid flange is applied to the body there will be sufficient tensional stress in the flange and a sufficient degree of compression in the can body as to produce a permanent and substantially inseparable bond between the can body end and the aforesaid cover-flange.

1,920,288
CONTAINER CLOSURE
John M. Young, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey
Application July 10, 1929. Serial No. 377,145
7 Claims. (Cl. 220—54.)



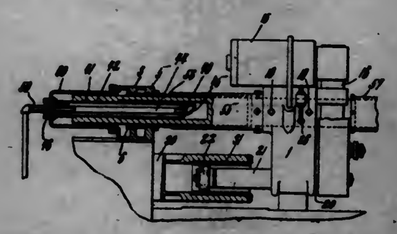
1. In a container, a container body having a sealing area of predetermined diameter, a cover for said container having a depending flange of substantial width and predetermined smaller diameter than said sealing area, and having a portion providing a tearing strip, said flange being adapted to be stretched within the limits of its elasticity by forcing the same over said area to form a tight seal with the latter, said flange being in a condition of tension to the point that the cover is permanent with and irremovable from the body.

1,920,289
METHOD FOR DEHYDRATING, WITHOUT DECOMPOSITION, HYDRATED SALTS
Harold Simmons Booth and Gilberts G. Torrey, Cleveland Heights, Ohio
No Drawing. Application June 26, 1930
Serial No. 464,165
3 Claims. (Cl. 23—50.)

1. The method of dehydrating a hydrated salt, which consists in introducing the salt to be dehydrated into a bath of fused ammonium salt.

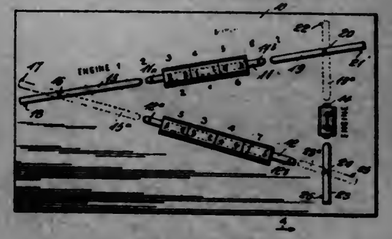
3. The method of dehydrating beryllium salts which consists in introducing the beryllium salt into a fused bath of an ammonium salt.

1,920,290
GRINDING MACHINE OR THE LIKE
William L. Bryant, Springfield, Vt.; Blanche B. Bryant, administratrix of said William L. Bryant, deceased, assignor to Bryant Chucking Grinder Company, Springfield, Vt., a Corporation of Vermont
Application May 1, 1930. Serial No. 448,939
6 Claims. (Cl. 51—50.)



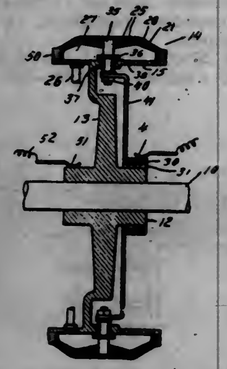
1. In combination, a bar, bearings for supporting said bar for rocking and axial movement, an arm fixed to said bar, said bar having tubular end portions, stationary plungers extending into said tubular portions and fitting fluid tight therein to form chambers therewith, said plungers having fluid passages therethrough leading into said chambers, means for selectively delivering or exhausting fluid under pressure through said passages into or out of said chambers to thereby move said bar and arm axially of said bar in either direction and means for supporting a tool and work in cooperative relation, one of said means being carried by said arm.

1,920,291
EDUCATIONAL APPLIANCE
Clarence W. Burger, Cherrydale, Va.
Application May 5, 1932. Serial No. 609,518
7 Claims. (Cl. 35—16.)



1. In an educational game, a portable board, three independent stationary track members located on said board and extending along lines which form a triangle when projected, and a movable track member pivoted at each of the apex positions of said triangle and selectively movable into alignment with adjacent stationary track members for permitting transfer of an engine and cars in similitude along the track members from a disordered arrangement upon certain of the stationary track members to an assembled orderly alignment upon a selected set of track members disposed in alignment.

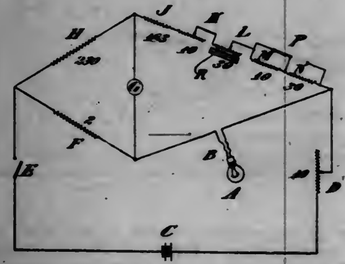
1,920,292
PULP MOLDING MACHINE
Merle P. Chaplin, Waterville, Maine, assignor, by mesne assignments, to Fidelity Trust Company, Portland, Maine, a Corporation of Maine, trustee
Application March 29, 1928. Serial No. 265,551
25 Claims. (Cl. 92—57.)



11. In the method of making an article from wet pulp, those steps consisting in holding it on a heating die by suction, in heating the article by the die while drawing the moisture of the heated article towards its die contacting surface by the suction thereon.

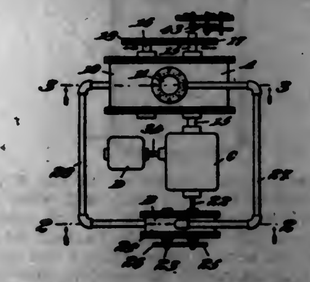
15. A die for pulp molding machines, said die having a perforated face adapted to receive a layer of wet pulp thereon, means for heating said die and means to exhaust the moisture from the heated layer of pulp thereon through the perforations of said face.

1,920,293
OPTICAL PYROMETER
Earnshaw Cook, Baltimore, and Eric L. Anderson, Sparrows Point, Md., assignors to Bethlehem Steel Company, a Corporation of Pennsylvania
Application October 12, 1929. Serial No. 399,325
1 Claim. (Cl. 88—14.)



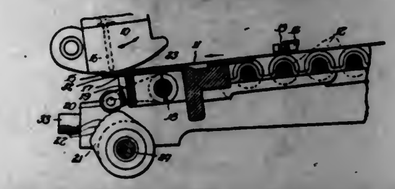
In an optical pyrometer of the disappearing filament type, a Wheatstone bridge comprising a branch containing a standard lamp and a low fixed resistance, a second branch consisting of a very high fixed resistance and one or more variable resistances having moving contacts, the total resistance of said second branch being substantially higher than that of said first branch, and scales associated with the moving contact of one of said variable resistances calibrated in terms of temperature.

1,920,294
MEASURING MECHANISM
Robert S. A. Dougherty, Bethlehem, Pa.
Application August 16, 1928. Serial No. 299,967
12 Claims. (Cl. 73—167.)



11. In a fluid meter, a fluid conduit, a movable fluid metering means mounted therein, a conduit by-passing said movable fluid metering means, a member in the by-passing conduit adapted to be moved as a result of the flow of fluid in said by-passing conduit, a power driven member, and means actuated by the movable member in the by-passing conduit for moving said movable fluid metering means by power from said power driven member.

1,920,295
SHEET FEEDING MECHANISM
Edward F. Dudley, Oak Park, Ill., assignor to the Miehle Printing Press & Manufacturing Company, Chicago, Ill., a Corporation of Illinois
Application June 15, 1928. Serial No. 285,617
15 Claims. (Cl. 192—128.)

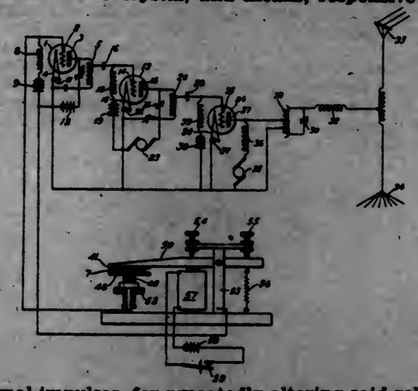


15. In a printing press, the combination of sheet feeding means, an impression cylinder, oscillating sheet transfer means arranged to engage a sheet while at rest on said sheet feeding means to convey it to said cylinder, and pneumatically controlled mechanism operatively associated with said transfer means whereby the operation of the press is interrupted when a sheet is not in proper register.

1,920,296
TRANSMITTING SYSTEM
John B. Coleman, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application August 7, 1926. Serial No. 127,725
2 Claims. (Cl. 250—17.)

1. A telegraph keying device comprising a piezo-electric crystal, supporting means therefor, movable means associated therewith, means for adjusting the space relationship of the movable

means to the crystal, and means, responsive to



signal impulses, for repeatedly altering said relationship.

1,920,297
CROTYL CELLULOSE AND CROTYL CELLULOSE COMPOSITIONS
Harry B. Dykstra, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware
No Drawing. Application July 25, 1930
Serial No. 470,773
10 Claims. (Cl. 134—79.)

10. A composition comprising an unsaturated cellulose ether from the group consisting of crotyl cellulose and allyl cellulose, and a drier.

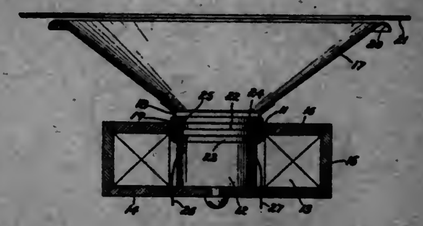
1,920,298
MANUFACTURE OF RUBBER SUBSTITUTES AND PRODUCTS DERIVED THEREFROM
Mario Faldini, Milan, Italy, assignor to Societá Italiana Pirelli, Milan, Italy, a Company of Italy
No Drawing. Application June 24, 1931, Serial No. 546,669, and in Great Britain August 13, 1930
15 Claims. (Cl. 106—23.)

1. A process for making a composition of brown substitute (factice) for direct addition to aqueous dispersions of rubber or the like, which comprises the steps of vulcanising a fatty oil by heat treatment thereof with sulphur and thereafter, while the vulcanised oil is still, from the vulcanising step, at a temperature between 90° and 100° C. to be fluid, emulsifying it by the addition with agitation of water containing a dispersing agent.

9. The manufacture of a rubber composition consisting of an aqueous mixed dispersion of rubber and brown substitute (factice), which comprises vulcanising a fatty oil by heat treatment thereof with sulphur, thereafter, while the vulcanised oil is still, from the vulcanising step, at a temperature between 90° and 100° C. to be fluid, emulsifying it by the addition with agitation of water containing a dispersing agent and incorporating the resulting emulsion in an aqueous dispersion of rubber.

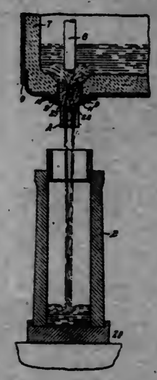
1,920,299
DYNAMIC LOUD SPEAKER
Herman J. Fanger, Oakland, Calif., assignor of one-half to Edmund R. Week, Jr., Oakland, Calif.
Application June 17, 1930. Serial No. 461,718
7 Claims. (Cl. 179—115.5.)

1. In a dynamic sound reproducer, means providing a magnetic field in an air gap, said means comprising a pair of magnetic members closely spaced to define the gap, a conductor in said gap, influenced by signal current impulses, and means for supporting said conductor on one of said



members whereby relative sliding movement between said supporting means and the conductor is prevented, said supporting means being located in a groove in the pole face.

1,920,300
TEEMING NOZZLE
Albert J. Gesel and William M. Murray, Buffalo, N. Y.
Application December 21, 1929. Serial No. 415,629
12 Claims. (Cl. 22—84.)

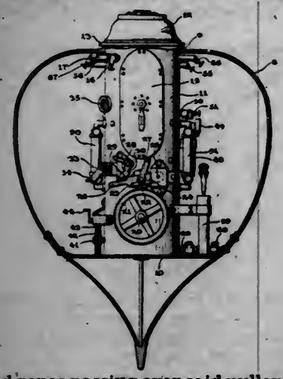


1. A teeming nozzle having a swirl preventing chamber in the intermediate portion thereof, a passage leading from the upper end of the nozzle into the swirl preventing chamber, and passages from the swirl preventing chamber to the lower end of the nozzle, said swirl preventing chamber being of non-circular cross section to resist the tendency of the metal to swirl in said chamber.

1,920,301
LIFE SAVING DEVICE FOR SUBMARINES
Herbert F. Good, Philadelphia, Pa., assignor of three-twentieths to Frank Maddenford, Frankford, Pa.
Application November 5, 1929. Serial No. 404,938
3 Claims. (Cl. 114—16.6)

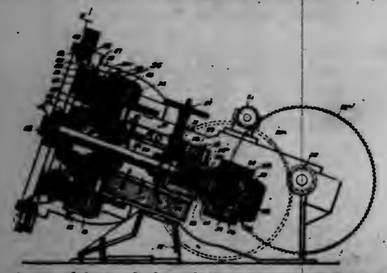
1. In combination, a submarine having a tube, a buoy adapted to enter the tube, means to permit an occupant of the submarine to enter the buoy, means for tethering the buoy to the submarine, and means for ejecting the buoy from the

tube, said ejecting means being arranged in entirety at a lower elevation than the buoy and comprising legs projecting downwardly from the buoy, guide tracks for the legs, fixed pulleys, a winding



shaft, and ropes passing over said pulleys and having certain of their ends connected to the lower ends of the legs, and their other ends connected to the winding shaft.

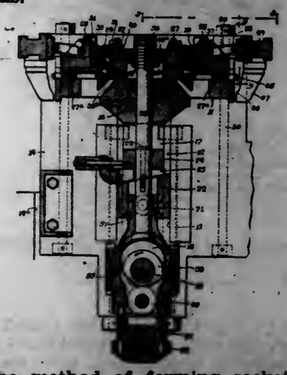
1,920,302
METAL WORKING MACHINE
Carl C. Grotnes, Park Ridge, Ill.
Application July 30, 1930. Serial No. 471,653
23 Claims. (Cl. 153—2.)



1. A machine of the character described comprising a stationary frame, a movable frame carried thereby, two annularly arranged sets of opposed die blocks mounted on one of said frames for radial movement toward and away from each other, cam means acting between one of said frames and the die blocks of the first set operable upon movement of the movable frame in a given direction to move the die blocks of said first set toward the other set to provide a backing of a predetermined diameter for an annular article, and toggle links acting between the die blocks of the other set and said other frame and operable upon continued movement of said movable frame in said given direction to move the blocks of said other set toward and into operative relation to said first set to press an annular article positioned therebetween to the diameter determined by said first set of die blocks.

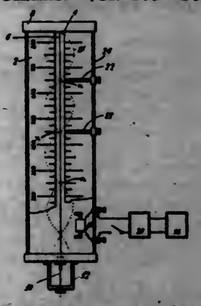
1,920,303
METHOD OF AND MACHINE FOR MAKING WHEEL RIMS
Carl C. Grotnes, Park Ridge, Ill.
Application May 15, 1931. Serial No. 537,551
16 Claims. (Cl. 153—2.)

11. A rim forming machine having, in combination, an annular support, an annular set of inner die blocks each having an elongated radially extending base plate with parallel side edges, an annular set of outer die blocks slidable on the base plates of the inner die blocks and also having parallel side edges, and a plurality of triangularly shaped guide blocks secured to the support and providing guiding surfaces coacting with the opposite edges of both the inner and outer die blocks.



16. The method of forming sockets in wire wheel rims, with spoke holes in the bottoms of said sockets, which consists in perforating the rim to form each hole by means of a cylindrical perforating element, then shaping the portion of the rim about the hole to form the socket, and finally compressing the metal of the socket about the punch to reduce the hole to true cylindrical form.

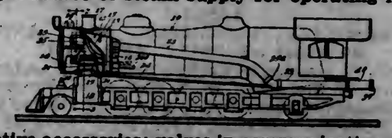
1,920,304
INDICATOR
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware
Application January 16, 1930. Serial No. 421,118
16 Claims. (Cl. 175—368.)



1. In combination, a member having a narrow slit therein, a linear mechanical oscillator positioned within the slit, and means to set up vibrations in the oscillator whereby only nodal points on the oscillator are visible through the slit.

1,920,305
LOCOMOTIVE
Benjamin F. Harrison, Glenns Ferry, Idaho, assignor to The Standard Stoker Company, Incorporated, a Corporation of Delaware
Application June 10, 1929. Serial No. 369,830
2 Claims. (Cl. 60—73.)

1. In a locomotive of the forced draft type having a smoke box and flues in communication with said smoke box, the combination of an exhaust chamber within said smoke box arranged to receive steam exhausted by the locomotive; an outlet arranged to conduct steam from said exhaust chamber; a secondary chamber embraced by said exhaust chamber, said secondary chamber forming a source of steam supply for operating loco-

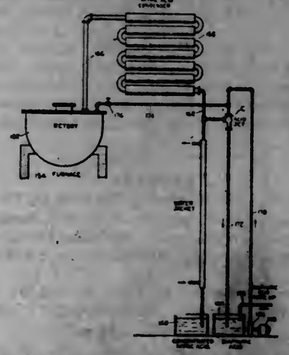


motive accessories; valves in communication with said exhaust chamber and said secondary chamber, said valves being arranged to open at a predetermined pressure within said exhaust chamber, and passages extending through said secondary chamber forming a passageway for the gases issuing from said flues.

1,920,306
PROCESS OF PREPARING CELLULOSE ESTERS
Joseph F. Haskins, Kenmore, N. Y., assignor to DuPont Rayon Company, New York, N. Y., a Corporation of Delaware
No Drawing. Application January 22, 1930
Serial No. 422,547
10 Claims. (Cl. 260—101.)

1. The process of making a cellulose ester which comprises heating a compound containing the cellulose nucleus and a reactive OH group with a carboxylic acid anhydride and a catalyst from the group consisting of an ammonium halide and a pyridine hydrohalide in a non-basic solution.

1,920,307
METHOD AND APPARATUS FOR THE LIBERATION OR CONCENTRATION OF ACIDS BY HEATING UNDER REDUCED PRESSURE
Ingenuin Hechenbleikner and Nicolay Titlestad, Charlotte, N. C., assignors to Chemical Construction Corporation, Charlotte, N. C., a Corporation of Delaware
Application July 24, 1931. Serial No. 552,894
36 Claims. (Cl. 23—160)



1. In processes including the liberation of vapors of nitric acid under the application of heat, the method of reducing the necessary heat, which includes operating the system under a vacuum created on the Venturi principle by running a liquid medium past the outlet of the system.

2. Apparatus for the liberation of vapors of nitric acid under the application of heat, comprising retort means, heating means therefor, and a Venturi or jet vacuum pump at the outlet of the system.

26. The method of concentrating a dilute acid, which includes subjecting the dilute acid to heat and to a dehydrating agent in order to obtain concentrated acid gases, condensing the gases, and establishing a high vacuum in the system on the Venturi principle by running a liquid past the outlet from the system.

1,920,308
GOLF BAG
George H. Hiles, Long Beach, Calif.; Leta S. Hiles executrix of said George H. Hiles, deceased
Application January 20, 1930. Serial No. 422,004
3 Claims. (Cl. 150—1.5)



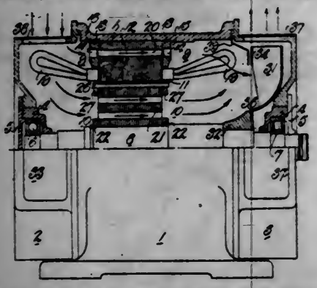
1. A golf bag comprising a flexible body provided with longitudinally extending pockets for the individual clubs, said pockets being open at both ends, and a means to releasably close the bottom end of the bag to permit the shafts of the longer clubs to project below the bottom of the bag when the bag is hung up.

3. A golf bag comprising a flexible approximately rectangular body adapted to be folded lengthwise to form an elongated bag, separate longitudinally extending pockets for the golf clubs secured on the inner side of the bag, zipper strips extending in opposite directions from the center of one end margin of the body along said margin and along the respective longitudinal margins of the body, a zipper slide mounted on the strips located at a point near the upper end of the bag when the zipper strips are interlocked with each other, the upper portion of the body adjacent the zipper slide being folded and hanging down to form a collar at the upper end of the bag said zipper strips extending continuously along the margins of said body at said collar and cooperating with the zipper slide to enable the collar to be folded upwardly to close the upper end of the bag by running the zipper slide to the upper ends of the zipper strips.

1,920,309
ELECTRIC MOTOR
Donald Bright Hoseason, Bowdon, England, assignor to Associated Electrical Industries Limited, a Company of Great Britain
Application October 22, 1929, Serial No. 401,441, and in Great Britain November 5, 1928
4 Claims. (Cl. 171—252.)

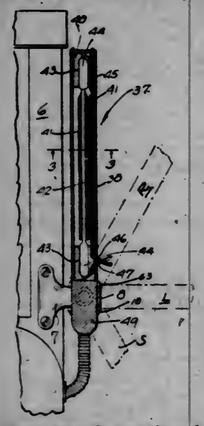
1. An "industrial" type induction motor comprising laminated stator and rotor cores with a small air gap and a maximum rotor peripheral speed of about 10,000 feet per minute, an impeller for causing external air to flow in contact with the internal motor parts, the core of at least the stator having between the slot base circle and the other periphery a large number of small axially extending air ducts providing substan-

tially pure axial ventilation of the motor and having such total cooling surface area whilst said impeller has such capacity that the "dissipation constant" within said axial ducts is greater than 3000 per kilowatt of electrical energy dissipated in heat, the slot conductor insulation being such that it has a total effective thermal conductivity as between slot conductor and slot walls which permits a flow of heat corresponding closely to the aforesaid "dissipation constant", and a winding of at least the stator of such small cross-sectional area, with slots of correspondingly small



cross-sectional area, that the minimum copper current density varies between about 5000 amperes per square inch in small motors and 3000 amperes per square inch in large motors, whereby without the permissible temperature rise being exceeded and the "performance" being impaired, the power/weight ratio is increased with a reduction in cost of the motor more than in proportion to the increases in weight and cost and air flow losses occasioned by the provision of the axial core ducts, high air flow and insulation of a predetermined high thermal conductivity.

1,920,310
SIGNALING DEVICE
Roy G. Jewell, Oakland, Calif., assignor of one-half to Charles S. Chandler, Oakland, Calif.
Application July 18, 1928. Serial No. 293,607
2 Claims. (Cl. 116—54.)



1. Operating means for a signal arm comprising a housing adapted to be detachably secured to a bracket, a fixed shaft extending longitudinally through one end of said housing, a bevel gear rotatably mounted on a vertical axis in the lower portion of said housing, said lower portion being threadedly secured to the upper portion of said housing, a flexible shaft for rotating said bevel gear, and a second bevel gear rotatably mounted on said fixed shaft and meshing with said bevel gear, a hub on said second bevel gear, said hub extending through said housing and adapted for attachment of a signal arm thereto.

1,920,311
GERMICIDE, FUNGICIDE, ETC., AND METHOD OF USING THE SAME
Morris S. Kharasch, College Park, Md., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware
No Drawing. Original application October 6, 1923, Serial No. 666,989. Divided and this application July 30, 1928. Serial No. 296,421
3 Claims. (Cl. 167—33.)

1. The method of treating small grains which consists in intermixing with the grains a dry mixture comprising a mercurised substituted aniline compound having a mercury atom attached to a carbon of a substituted benzene ring and an inert filler.

1,920,312
COLLAPSIBLE CRATE
Frank J. Klinka, Milwaukee, Wis.
Application May 10, 1930. Serial No. 451,420
10 Claims. (Cl. 220—6.)



1. A collapsible crate comprising top and bottom members stamped from bendable metal and each having two opposite curled edges, hingedly connected sides comprising spaced similar slats stamped from bendable metal, means hingedly connecting the slats of adjacent sides, and connecting means carried by the curled edges of the top and botttom adapted for engagement with said means hingedly connecting the sides.

1,920,313
HEAT EXCHANGE APPARATUS
Robert Mautsch, Brussels, Belgium, assignor to Manufacture Generale Metallurgique, Societe Anonyme, Brussels, Belgium, a Company of Belgium
Application November 25, 1931, Serial No. 577,328, and in Belgium November 28, 1930
7 Claims. (Cl. 257—249.)



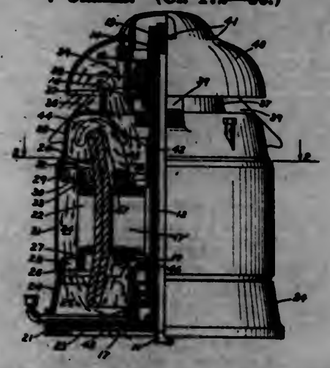
1. In a heat exchange apparatus, parallel tubular members, fins threaded on said tubular members, said fins having corrugations formed therein, said corrugations comprising groups of large corrugations and groups of small corrugations both extending parallel with the direction of flow of the medium surrounding said tubes, said tubular members being expanded internally, said fins gripping the periphery of each of said members along a sinuous line and forming therewith a rigid whole.

1,920,314
FLASH LIGHT
Bernard F. Muldoon, Mountain View, N. J., and John E. Johnson, Brooklyn, N. Y., assignors to Henry Hyman, Brooklyn, N. Y.
Application May 6, 1929. Serial No. 360,676
4 Claims. (Cl. 240—10.67)



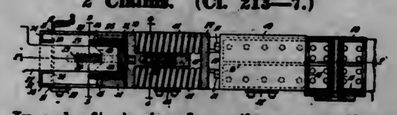
1. In a flash light, a casing, a cover pivoted intermediate its ends at one end of said casing, a transverse pivot for said cover extending across the inside of said casing, an electric bulb carried by said cover, spring means for opening said cover, and a contact element carried by said cover and insulated therefrom and adapted to contact with a battery terminal and a terminal of said bulb, said battery terminal operating as a stop to limit the extent of opening of said cover.

1,920,315
DYNAMO-ELECTRIC MACHINE
Thomas G. Myers, Los Angeles, Calif., assignor to U. S. Electrical Manufacturing Company, Los Angeles, Calif., a Corporation of California
Application August 4, 1930. Serial No. 472,788
7 Claims. (Cl. 172—36.)



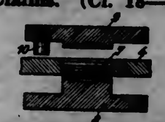
1. In a dynamo electric machine having a stationary and a rotary member, said members having a vertical axis, and a casing for said members, comprising an upright flange, cover member surrounding the flange and defining an annular space therewith, a deflector inside said casing and below the flange, and a fan having one or more blades that extend upwardly past the outside of the deflector.

1,920,316
RAILWAY DRAFT RIGGING
John F. O'Connor, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware
Application February 15, 1929. Serial No. 340,267
2 Claims. (Cl. 213—7.)



1. In a draft rigging for railway cars, the combination with a coupler having a shank member; of a yoke movable rearwardly during a buffing action; a coupler key connecting the yoke and coupler; a front follower within the yoke, said follower having a rearwardly extending post thereon engageable with the inner end of the yoke to limit relative movement of the follower and yoke and effect movement in unison of said follower and yoke during buffing action of the mechanism, said post being longitudinally slotted; a key extending through the slot of the post and being movable lengthwise of said slot to an extent at least equal to the maximum relative movement of the follower and yoke, said key being held against outward movement with respect to the car and having movement inwardly of the car and yoke, said key limiting outward movement of the follower by engagement with the rear end wall of the slot of the post; and cushioning means between the follower and inner end of the yoke.

1,920,317
PROCESS OF DECORATING BUTTONS
Heinrich Oexmann, Berlin-Lichterfelde, Germany
Application February 15, 1929, Serial No. 340,234, and in Germany May 14, 1927
3 Claims. (Cl. 18—55.)

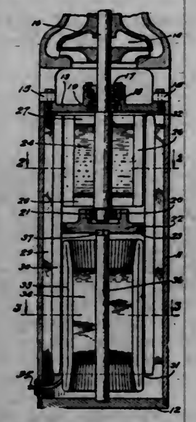


1. A process for decorating buttoms and other transparent articles made of pressed material in which it is desired to give the impression that the pattern extends right through the article, consisting in filling into a mold a layer of pulverous base material, in applying on this layer color in the form of the desired pattern, in covering this color with a second layer of base material which fills the interstices between the color pattern, in applying on this second layer color in the form of the desired pattern registering with the pattern of the color applied on the first layer of base material, in repeating this procedure until the desired thickness is attained, and in applying pressure to form the finished article.

1,920,318
SUBMERSIBLE POWER UNIT
George T. Pfleger, Los Angeles, Calif., assignor to U. S. Electrical Manufacturing Company, Los Angeles, Calif., a Corporation of California
Application February 3, 1930. Serial No. 425,537
2 Claims. (Cl. 172—280.)

1. In an electrical power unit for use in a well, a fluid tight, substantially cylindrical casing capable of submergence in the well, a magnetic core arranged adjacent the inner wall of the casing and enclosed therein, a short circuited low voltage winding supported on said core, a stationary

high voltage inducing winding encompassed by said core and cooperating with said low voltage winding to induce a low voltage therein, a low voltage secondary winding axially spaced from



the inducing winding, in cooperative relation to the short circuited winding, and encompassed by said core, and means whereby mechanical power developed by said secondary winding is rendered available exterior of the casing.

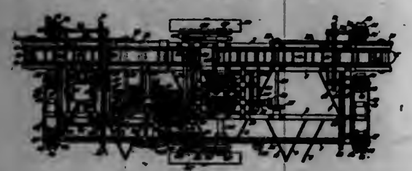
1,920,319

SUBGRADING MACHINE

Theodore R. Regenhardt and Charles Kassel, Cape Girardeau, Mo., assignors to Regenhardt Construction Company, Cape Girardeau, Mo., a Corporation of Missouri

Application May 14, 1931. Serial No. 537,296

14 Claims. (Cl. 37—108.)



8. A subgrader comprising a frame, a series of mold boards supported by said frame for loosening a continuous strip of earth and materials equal in width to the distance from one end to the other end of said series of mold boards, conveyor mechanism supported by said frame for discharging laterally the earth and materials loosened by said mold boards, a motor supported by said frame, mechanism operated by said motor for adjusting said frame and said mold boards in position for operation, and mechanism operated by said motor for operating said conveyor mechanism.

1,920,320

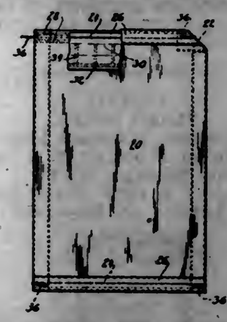
PAPER BAG AND CLOSURE THEREFOR

John A. Rosmait, Manistee, Mich., assignor to Filer Fibre Company, Filer City, Mich., a Corporation of Michigan

Application June 5, 1931. Serial No. 542,321

7 Claims. (Cl. 229—62.)

7. A paper bag having side walls secured together by a line of stitching, a sealer strip extending transversely across the bag covering said line of stitching, said sealer strip secured to the bag throughout its length on both sides of the line of stitching spaced from the line of stitching, said sealer strip further secured by a line of securement extending across each end of the strip be-



tween said lengthwise lines of securement, said sealer strip further secured to the bag by transverse lines of securement arranged at spaced apart intervals throughout its length between the two end lines of securement.

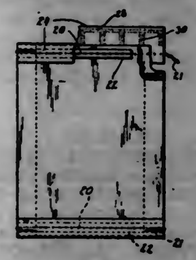
1,920,321

PAPER BAG AND CLOSURE THEREFOR

John A. Rosmait, Manistee, Mich., assignor to Filer Fibre Company, Filer City, Mich., a Corporation of Michigan

Application June 5, 1931. Serial No. 542,322

5 Claims. (Cl. 229—62.)



4. A paper bag having side walls secured together at one end by a line of stitching, a sealer strip folded over the end of the bag and adhesively secured thereto by parallel spaced apart lines of adhesive arranged above and below the line of stitching on each side wall and by narrow transverse lines of adhesive extending across the line of stitching on each side wall between said spaced apart parallel lines of adhesive.

1,920,322

PAPER BAG

John A. Rosmait, Manistee, Mich., assignor to Filer Fibre Company, Filer City, Mich., a Corporation of Michigan

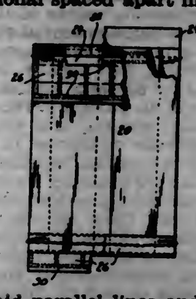
Application June 5, 1931, Serial No. 542,223

Renewed October 3, 1932

8 Claims. (Cl. 229—62)

7. A paper bag having side walls secured together at one end by a line of stitching, an end closure strip extending across the end of the bag down along each side wall over the line of stitching and secured to each side wall by a line of adhesive extending parallel to and below said line of stitching by a narrow line of adhesive extending transversely across each end of the strip connecting said parallel lines of adhesive

and by additional spaced apart lines of adhesive



connecting said parallel lines and arranged between said two end lines of adhesive.

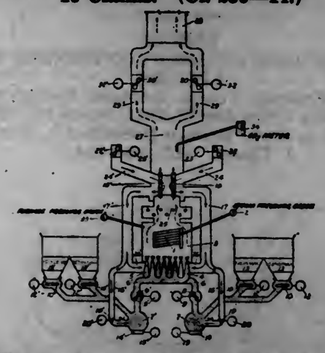
1,920,323

METHOD AND SYSTEM OF REGULATION

Allen M. Rossman, Wilmette, Ill., assignor to Rossman, Sargent & Lundy Patents Corporation, Chicago, Ill., a Corporation of Illinois

Application December 3, 1929. Serial No. 411,336

19 Claims. (Cl. 236—14.)



1. The method of regulating the movement of air through a furnace having forced draft and induced draft which comprises periodically adjusting the value of both forced and induced draft according to a fixed ratio, and periodically adjusting the relative values of forced and induced draft between periods of simultaneous adjustment of the values of the same.

1,920,324

DYE COMPOUNDS AND PROCESS OF PRODUCING SAME

Albert H. Schmidt, Palatine, Ill.

No Drawing. Application August 2, 1930

Serial No. 472,758

7 Claims. (Cl. 8—6.)

1. The process of preparing a dyeing composition, which comprises forming an alcoholic solution of amomnium resinate, and combining with said solution a solution of a water-soluble synthetic organic dye capable of reacting therewith to form a water insoluble color when dry.

1,920,325

ELECTRIC INDUCTION FURNACE

Karl Schmidt, Berlin-Lichtenrade, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany

Application October 25, 1929, Serial No. 402,526, and in Germany October 25, 1928

2 Claims. (Cl. 13—26.)

1. An electric induction furnace comprising a laminated ring of magnetic material having openings therethrough near the inner periphery and parallel to the axis of the ring, heating means for reducing metal to a molten state and for causing its rotation consisting of a single set of multi-



phase windings arranged in said openings, and a removable crucible positioned within and surrounded by the ring of magnetic material and having an unobstructed interior.

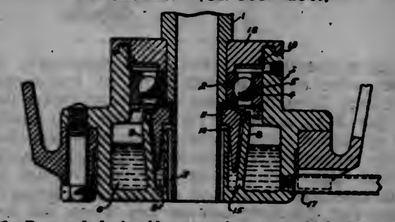
1,920,326

VERTICAL OIL BEARING

Raymond W. Schuck, Homewood, and John L. Brown, Verona, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania

Application January 30, 1930. Serial No. 424,552

2 Claims. (Cl. 308—187.)



1. In a lubricating system, a disk-like body, a converging frusto-conical member depending from the outer circumference of the disk-like body and a plurality of oil-thrower elements attached to the disk-like body and projecting beyond the upper extremity of the depending member, the oil-thrower elements having oil-throwing surfaces diverging outwardly and downwardly from their centers.

1,920,327

BRIQUETTE AND METHOD OF MANUFACTURING BRIQUETTES

Charles W. Sewell, Allentown, Pa.

Application May 6, 1925. Serial No. 28,423

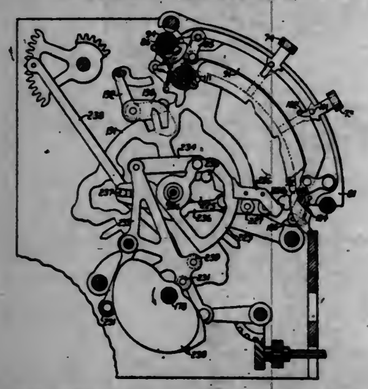
3 Claims. (Cl. 44—10.)



1. The method of producing semi-carbonized briquettes, which comprises initially heating from a primary source the briquette to the point of ignition, and thereafter conveying the burning briquette through a series of chambers having gradually decreasing temperatures.

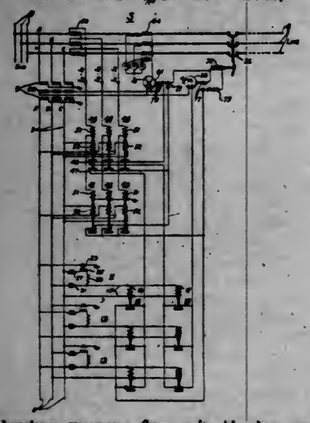
3. In the manufacture of smokeless fuel, the process which comprises briquetting bituminous coal with a suitable binder under pressure, transferring the briquetted material to a conveyor passing substantially horizontally through a heated chamber, and subjecting said material to hot gases, the time of exposure of said material to said hot gases being substantially between ten and thirty minutes.

1,920,328
CASH REGISTER
Bernis M. Shipley, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland
Original application March 29, 1923, Serial No. 628,477. Divided and this application June 24, 1927. Serial No. 201,214
8 Claims. (Cl. 235—27.)



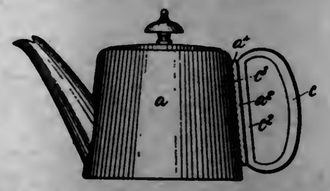
1. In a machine of the class described, the combination of a divided bank of transaction and clerks' keys, a release bank comprising item and total keys, a total lever movable into adding, total of items, clerks' and transaction positions, means compelling an operation of a transaction key and then a clerk's key before a release key can be operated in adding operations, means for locking out the item release key when the total lever is in "total of items" position and for locking out the clerks' or transaction keys when the total lever is positioned in a transaction or clerk's position, and means for disabling said compelling means to permit the keys to be depressed as determined by said locking means.

1,920,329
HIGH-SPEED RELAYING EQUIPMENT
Leonard S. C. Tippett, Sydney, Australia, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application May 1, 1930. Serial No. 448,988
22 Claims. (Cl. 175—294.)



8. Relaying means for selectively responding to faults of a particular type, to wit single-phase grounds, on a three-phase transmission line, comprising a potential-bus source of derived three-phase voltages having a potential suitable for relaying, a three-phase voltage-responsive relaying network comprising two serially connected impedances connected across one phase of the three-phase source, and an auxiliary transformer having its secondary winding and another serially connected impedance connected in shunt across one of the first-mentioned impedances, the primary winding of said auxiliary transformer being energized from another phase of said three-phase source, one of said three impedances being an over-voltage relay coil, and the values of the respective impedances being such that the coil receives a current proportional to the scalar value of the vector sum of one of the line-to-ground voltages of the source, plus a voltage-compotent substantially equal to .577 j times the opposite delta voltage of the source, plus a modifying voltage-component derived from said delta voltage suitable for causing the resultant relay voltage to be substantially unaffected by variations in the resistance of a ground fault on the line-phase corresponding to the said line-to-neutral voltage of the source.

1,920,330
HANDLE FOR VESSELS CONTAINING HOT LIQUIDS
Percy Frederic Towns, Onchan, Isle of Man
Application November 12, 1931, Serial No. 574,496, and in Great Britain December 3, 1930
1 Claim. (Cl. 16—114.)

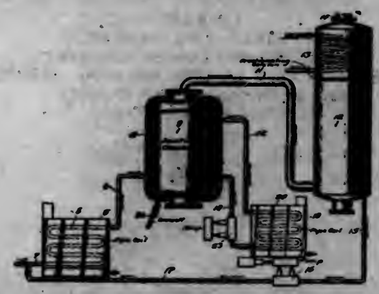


In combination with a vertically disposed dove-tailed channel formed on the exterior of a vessel and having a closed upper end, a removable handle for said vessel, said handle comprising a hand grip portion of thermally insulating material, and a vertical web integral with the hand grip portion, said web comprising dove-tailed walls corresponding to the dove-tailed channel and adapted to be connected by an upwardly sliding engagement with said channel, the upper end of the vertical web being adapted to positively engage the closed upper end of the dove-tailed channel.

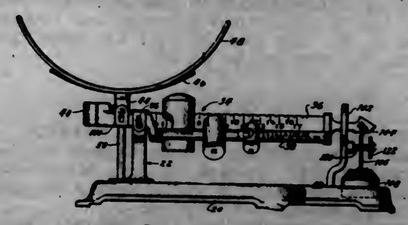
1,920,331
CONVERSION OF HIGH-BOILING HYDROCARBON OILS INTO LOWER BOILING HYDROCARBON OILS
William E. Warwick, Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana
Application November 9, 1925. Serial No. 67,826
6 Claims. (Cl. 196—59.)

1. The method of converting high boiling hydrocarbon oils into lower boiling hydrocarbon oils which comprises passing such oil in a flowing stream through a heated zone in which the oil is heated to conversion temperatures above 700° F. under pressure, discharging the heated oil into an enlarged chamber in which further conversion of the oil takes place with superatmospheric pressure maintained thereupon, and maintaining

the unvaporized oil in said chamber at a conversion temperature by passing portions of it in an independent flowing stream through an independent heating zone and back to said chamber in an independent stream at a point substantially remote from the point of introduction of oil from said first named heating zone.



1,920,332
SCALE
Mathias J. Weber, Chicago, Ill., assignor to Continental Scale Works, Chicago, Ill., a Corporation of Illinois
Application February 23, 1929. Serial No. 342,136
24 Claims. (Cl. 265—49.)

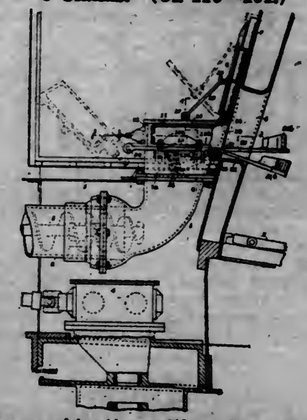


1. In a scale of the class described, a frame, a fulcrumed scale beam on said frame, actuating means for imparting movement to the beam in response to weight placed upon the scale, said actuating means having a fulcrum connection with said beam, and means spaced from said latter fulcrum for supporting the actuating means against lateral displacement, said lateral supporting means including a pair of bars, one of said bars being positioned within the same plane as the other bar, said bars being provided with co-operating knife edges for engaging the beam actuating means, whereby frictional resistance in laterally supporting said actuating means is materially reduced.

1,920,333
METHOD FOR THE PRODUCTION OF NITROSYLCHLORIDE
Colin W. Whittaker and Frank O. Lundstrom, Washington, D. C., dedicated to the free use of the public
No Drawing. Application February 27, 1932
Serial No. 595,672
9 Claims. (Cl. 23—203)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The method of producing nitrosylchloride which comprises treating solid substances in a humid condition, such substances containing alkali chlorides, with oxides of nitrogen.

1,920,334
LOCOMOTIVE STOKING MECHANISM
David T. Williams, New York, N. Y., assignor to the Standard Stoker Company, Incorporated, a Corporation of Delaware
Application September 21, 1927
Serial No. 220,964
9 Claims. (Cl. 110—101.)



8. The combination with a furnace having a firing opening, of a fuel receptacle having at its upper end a housing portion communicating with said opening, said housing portion being hinged at its end remote from the furnace to swing away therefrom a removable top cover for said housing and a detachable manifold forming the rear wall thereof.

1,920,335
BOTTLE STOPPING LIQUID LIFTER AND DISPENSER
Edwin C. Wood, East Orange, N. J.
Application October 6, 1931. Serial No. 567,322
5 Claims. (Cl. 215—58.)

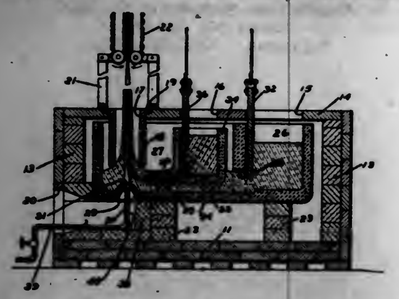


1. A bottle stopper and liquid lifter comprising in combination a hollow head of compressible material, and a separate liquid lifting section of compressible material removably seated in said hollow and having also therein a hollow, which latter is in communication with said first hollow, said head including a manipulable portion, whereby on manipulation of said portion to partly compress said head the stopper may be partly moved through the opening of a bottle for inserting said section into the liquid.

1,920,336
METHOD AND APPARATUS FOR DRAWING GLASS
William J. Woods, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York
Application January 25, 1932. Serial No. 588,714
5 Claims. (Cl. 49—17.1.)

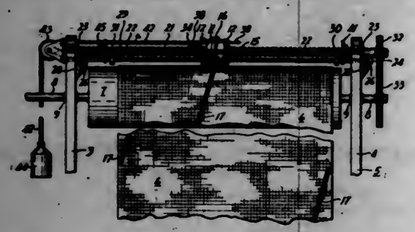
5. In an apparatus for drawing glass, a container for clear glass, a shaping sleeve project-

ing into the container from above and extending below the surface of the glass contained therein, means for drawing glass upwardly through the shaping sleeve, a container for contrasting glass having a shaping nozzle which extends below the



surface of the clear glass for introducing a shaped strip of contrasting glass into the clear glass as it is drawn upwardly through the shaping sleeve and means for introducing air into the glass as it is being drawn to form a bore therein.

1,920,337
MARKING MACHINE
Philip A. Wooster, San Francisco, Calif.
Application January 21, 1932. Serial No. 587,936
4 Claims. (Cl. 33—36.)



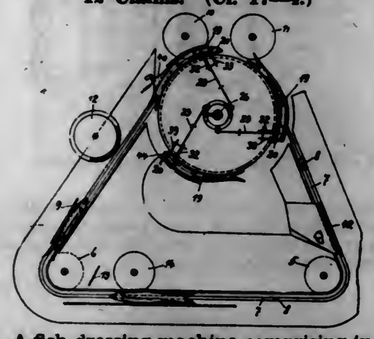
1. In a machine of the class described, a roller for supporting an advancing strip of material, a slidable carriage positioned cooperatively adjacent said roller, screw means for moving said carriage upon advance of said strip, means on said carriage for applying a mark to said strip, and means for driving said screw means in accordance with advance of said strip so that said applying means applies a mark on the bias of said strip for a predetermined length thereof.

1,920,338
SHOE AND METHOD OF MAKING THE SAME
Fred L. Ayers, Portland, Me.
Application September 16, 1932
Serial No. 633,537
15 Claims. (Cl. 12—142.)



13. The method which comprises lasting and securing upper materials including upper and lining to an edge portion of an innersole extending beyond the normal outline and substantially in the plane thereof of said innersole between the upper and lower faces of said innersole, the marginal portions of said materials being turned outwardly, trimming off said extension innersole edge, and cementing an outersole underlying said innersole to said margins.

1,920,339
FISH DRESSING MACHINE
Rudolf Baader, Lubeck, Germany
Application April 14, 1930, Serial No. 444,292, and in Germany June 19, 1929
12 Claims. (Cl. 17—4.)



1. A fish dressing machine comprising in combination a rotative turntable, a pulley integral with said turntable, equally spaced pins secured to said pulley, a perforated belt in geared relation with said pins, a pair of idler pulleys arranged at remote points from said turntable, fish impaling pins secured to the belt in spaced relation, fish dressing tools arranged on opposite sides of the belt and on said turntable, and means for operating said tools.

1,920,340
MANUFACTURE OF COATED PAPERS
Frank William Bailey, Sydney Francis William Crundall, and Howard Spence, Manchester, England, assignors to Peter Spence & Sons, Limited, Manchester, England
No Drawing. Application July 28, 1931, Serial No. 553,684, and in Great Britain August 1, 1930
6 Claims. (Cl. 91—68.)

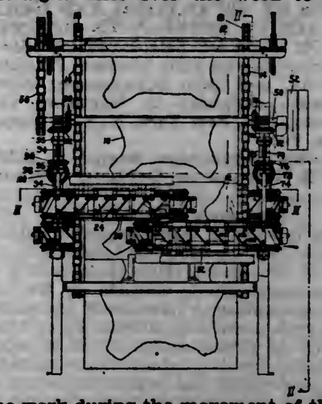
1. A pigment for a paper coating composition consisting of clay as a filler pigment and anhydrous calcium sulphate.

5. The process for the manufacture of coated papers, which process comprises applying to the surface of a sheet of paper a coating composition containing a pigment consisting of china clay and anhydrous calcium sulphate.

1,920,341
MACHINE FOR OPERATING UPON HIDES, SKINS, AND LEATHER
Harrie A. Ballard, Beverly, Mass., assignor to The Turner Tanning Machinery Company, Portland, Me., a Corperation of Maine
Application November 8, 1929. Serial No. 405,760
8 Claims. (Cl. 149—19.)

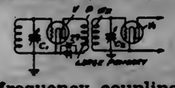
2. In a machine for operating upon hides, skins, leather and other similar pieces of work, a movable work support having oppositely facing parallelly arranged work supporting surfaces, a plurality of sets of blades arranged upon opposite sides of the path of the work support to operate upon the work backed by the work parallel supporting surfaces, means for moving the work support between and past the sets of blades, and means for moving the blades

along straight lines over the work to operate



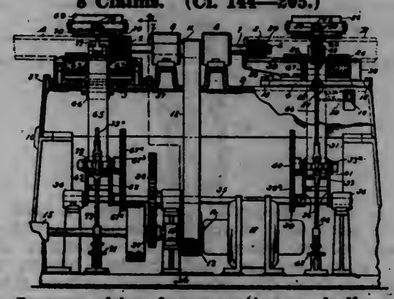
upon the work during the movement of the work support.

1,920,342
HIGH FREQUENCY AMPLIFIER
Edwin A. Beane, Oak Park, and Edward F. Andrews, Chicago, Ill., assignors, by direct and mesne assignments, to Radio Corporation of America, a Corporation of Delaware
Original application June 17, 1924, Serial No. 720,549. Divided and this application March 1, 1932. Serial No. 596,030
13 Claims. (Cl. 179—171.)



1. A radio frequency coupling system having input terminals and comprising a main resonant circuit including as elements a coil and a condenser, at least one of which is adjustable to tune the coupling system over a range in frequency, a circuit inductively coupled to said resonant circuit including a fixed self-inductance having a resonant frequency lower, but not greatly lower, than the lowest frequency within said range and an electron discharge tube having its output electrodes coupled across opposite terminals of said fixed self-inductance.

1,920,343
CORE SPLICING MACHINE
Edwin W. Bebie, Hawthorne, N. J., assignor to International Paper Company, a Corporation of New York
Application August 8, 1930. Serial No. 473,804
8 Claims. (Cl. 144—205.)

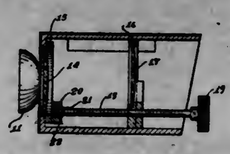


1. In a machine for operating on hollow core sections, the combination of a rotary cutter, a supporting member for the core section, rotatable holding means on said member adapted to support the core section with its end portion offset relative to the cutter to have an annular external cut made in the side thereof, means for rotating said holding means to rotate the core section about its longitudinal axis, a positioning member carried by said supporting member to enter the end of the supported core section, said positioning member being independent of the core holding and rotating means, and means for effecting a relative movement between the supporting member and the cutter to engage the outer side of the core section with the cutter.

1,920,344
PRODUCTION OF FATTY ACIDS
Christoph Beck, Ludwigshafen - on - the - Rhine, and Heinrich Diekmann, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application July 11, 1931, Serial No. 550,274, and in Germany July 23, 1930
10 Claims. (Cl. 260—116.)

1. In the production of fatty acids by the destructive oxidation of difficultly volatile paraffin hydrocarbons, and saponification of the resulting oxidation products, the step which comprises subjecting a resulting soap to extraction with a liquefied paraffin hydrocarbon material containing at least 8 carbon atoms in the molecule as has served as initial material in the oxidation.

1,920,345
FOG PENETRATING APPARATUS
Carl Biernat, Glasford, Ill.
Application January 14, 1931, Serial No. 508,693
Renewed April 15, 1933
2 Claims. (Cl. 88—1.)



1. A fog penetrating apparatus comprising a box, suction cups at one of the walls of said box to attach the same to a smooth surface, said wall having a window, a lens held within said window, a movable frame in said box distanced from said window, a lens held in said frame, and a means for bringing said lens in the movable frame into proper focus.
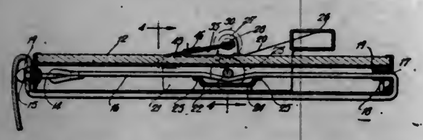
1,920,346
FIXED CONDENSER
Octave Blake and Haim Beyer, New York, N. Y., assignors to Cornell Electric Manufacturing Co. Inc., Long Island City, N. Y., a Corporation of New York
Original application December 30, 1930, Serial No. 505,502. Divided and this application July 19, 1932. Serial No. 623,346
1 Claim. (Cl. 175—41.)



A non-inductive condenser comprising a supporting core, a pair of metal strips interleaved

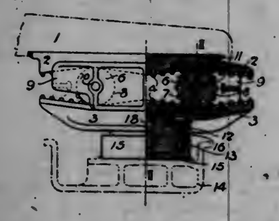
with insulating strips wound on said core with one edge of each of the metal strips projecting beyond opposite sides of the insulating strips, a metal cap secured to the core at each end in contact with the first few turns of the projecting edge of the metal strip, the edges of the remaining turns of the metal strips being pressed down into contact so that some turns of one strip are short-circuited on the remaining turns of the same strip, and leads connected to said caps.

1,920,347
RAZOR BLADE SHARPENER
Harry Blau, New York, N. Y.
Application December 18, 1931
Serial No. 581,954
1 Claim. (Cl. 51—153.)



A razor blade sharpening device comprising a rectangular casing, a honing element mounted at the top of said casing, a carriage slidable lengthwise of said casing, a blade holder pivotally mounted in said carriage and disposed above said honing element, a flexible strop fixed within said casing at one end thereof and having its other end extended exteriorly of said casing and adapted to be extended over either the bottom of the casing or the top of the casing between said honing element and blade holder, means for holding said strop taut, a roller journalled in said carriage and disposed in frictional contact with one side of that portion of the strop housed within said casing, and means for transmitting reverse turning movement from said roller to said pivoted blade holder upon reciprocation of said carriage.

1,920,348
RAILROAD TRUCK CENTERING DEVICE
James G. Blunt, Schenectady, N. Y.
Application November 4, 1930. Serial No. 493,285
13 Claims. (Cl. 308—226.)

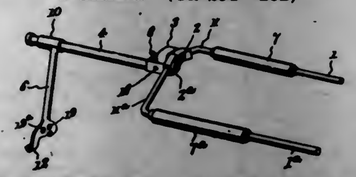


6. In a centering device for a railroad truck comprising upper and lower roller seats having rollers interposed therebetween to provide for their relative lateral movement and adjustment, means comprising a guide member rotatably disposed beneath the lower seat, and a rocker member within said guide member adapted for support on said truck and supporting said seats, adapted to permit parallel and vertical alignment of said seats to be maintained during said relative lateral movement.

1,920,349
PROCESS OF SEPARATING AND ISOLATING THE ACTIVE SUBSTANCES OF THE POSTERIOR LOBE OF THE HYPOPHYSIS
Max Bockmühl and Fritz Lindner, Frankfort-on-the-Main, and Otto Schaumann, Wiesbaden, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York
No Drawing. Application August 20, 1930, Serial No. 476,712, and in Germany September 7, 1929
4 Claims. (Cl. 167—74.)

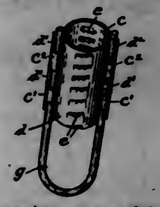
1. The process of separating and isolating the substances of the posterior lobe of the hypophysis acting on the uterus from those acting on the blood-pressure which consists in treating the solution containing a mixture of the active substances with adsorbing substances of the group consisting of preparations of silicic acid or of silicates in a feebly acid solution, separating the filtrate containing the substance acting on the uterus from the adsorbent and treating the latter at first with a feeble acid and washing out the substance acting on the blood-pressure from the adsorbent by means of a weakly alkaline solution.

1,920,350
DEVICE FOR MOUNTING WHEELS ON HUBS
Pierre Marcel Bourdon, Paris, France, assignor to Michelin et Cie, Clermont-Ferrand, France, a Corporation of France
Application December 27, 1932, Serial No. 649,061, and in France January 6, 1932
5 Claims. (Cl. 254—131)



1. A device for the mounting and demounting of wheels of vehicles comprising a handle, branch members pivoted with respect to one another and to the handle, and a support slidable on the handle to interlock with the members.

1,920,351
MOP CONNECTER
Harold L. Bradley, Hyde Park, Mass., assignor to Howard Dustless-Duster Co., Boston, Mass., a Corporation of Massachusetts
Application May 8, 1931. Serial No. 535,921
7 Claims. (Cl. 15—147.)

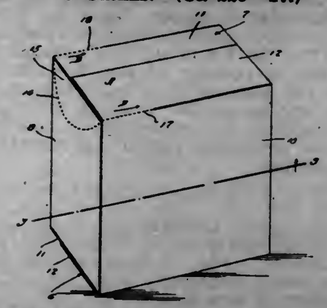


3. A mop connecter comprising a pair of curved segmental members arranged to form a tubular socket when their corresponding edge portions are engaged, each member having lugs projecting from the opposite edge portions thereof, the lugs of each member being arranged to extend reversely with relation to the curvature of the member, to provide oppositely disposed recessed faces at each side of the socket, and a U-form yoke having its middle portion adapted to receive the mop fabric and having its end portions slidable between the faces of said lugs to connect the members in tubular relation and to clamp the mop fabric between the yoke and the adjacent end of the socket.

1,920,352
THERMAL TYPE CARBON BLACK
Roy H. Brownlee, Pittsburgh, Pa.
No Drawing. Application March 14, 1932
Serial No. 598,880
7 Claims. (Cl. 134—60.)

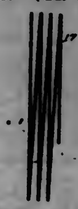
1. As a new material of manufacture a thermal type carbon black resulting from the thermal disassociation of a hydrocarbon in passage through flame and past a refractory surface heated to at least the disassociation temperature of the hydrocarbon, said carbon black characterized by a flocculence at least as marked as that of standard channel black.

1,920,353
MERCHANDISING CARTON
James William Campbell, Salem, Va.
Application February 6, 1933. Serial No. 655,509
3 Claims. (Cl. 229—17.)



1. A dispensing and packaging carton comprising a box-like container embodying a bottom, top, end and side walls, the upper portions of one of the end walls being formed with a perforated line designed to define a pouring notch, and an internal closure unit attached to the under side of said top and embodying a closing flap for said notch, said flap being usable after the notch is formed by the consumer.

1,920,354
EDGE-WOUND CORE
David E. Carpenter, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application August 21, 1931. Serial No. 558,519
14 Claims. (Cl. 171—252.)



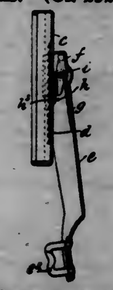
13. A laminated core for an electric machine comprising an edge-wound helix of a continuous strip-punching having teeth which are in substantial alinement, and having means for binding the helically-wound punching together.

1,920,355
MOP
Max L. Cass, Pasadena, Calif., assignor of four-tenths to Theodore Gutmann, Pasadena, Calif.
Application May 14, 1932. Serial No. 611,419
4 Claims. (Cl. 15—229.)



1. A mop, comprising a tubular shell, a handle having one end connected with an end of the shell, a mop head formed of strands of material, a sleeve of rigid material bound firmly about the ends of the strands at one end of the head, said sleeve being designed for insertion into the other end of the shell and having opposite apertures aligning with apertures in the shell, and a pin extending through the aligned apertures of the shell and sleeve, the said pin being forced through the mop strands and firmly wedging the same in and against the wall of the sleeve.

1,920,356
HASP FASTENING FOR SUIT AND ATTACHÉ CASES AND THE LIKE
Charles William Cheney, Birmingham, England
Application May 6, 1932, Serial No. 609,574, and in Great Britain July 6, 1931
3 Claims. (Cl. 292—285.)



3. A two-piece hasp member comprising an attachment plate, a central line of ratchet teeth formed upon the face of said plate, a rigidly built hasp directly mounted at its one end upon the attachment plate to bodily slide therealong and to bodily hinge thereon at said end, a hasp spring to normally swing the entire hasp out-

wardly to oblique position from its hinged end, a pivoted pawl directly and immediately applied to the hinged end of the hasp to be always a part of said hasp and adapted to engage and disengage the line of ratchet teeth of the attachment plate and a pawl spring also carried by the hasp and adapted to operate upon the pawl only.

1,920,357
HEAT EXCHANGE DEVICE
Charles E. Clark, West Hartford, Conn.
Application April 17, 1933. Serial No. 666,395
4 Claims. (Cl. 257—262.)

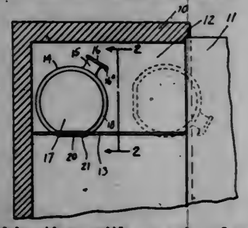


1. A heat exchange device having a tube, a plurality of spaced apart radiating plates surrounding said tube and each having openings spaced radially from said tube, and spacing lugs carried by said plates and disposed at an angle to the planes thereof, the lugs of each plate having at their free end tongues engaging in the openings of the next succeeding plate whereby to prevent relative rotation between the plates, said tongues further having shoulders adapted to engage the opposed face of the succeeding plate whereby to hold the plates in spaced apart relation.

1,920,358
INSULATING CONCRETE
Horace N. Clark, Bridgewater Township, Somerset County, N. J., assignor to Refractory and Engineering Corporation, New York, N. Y., a Corporation of New Jersey
No Drawing. Application January 7, 1931
Serial No. 507,303
2 Claims. (Cl. 106—18)

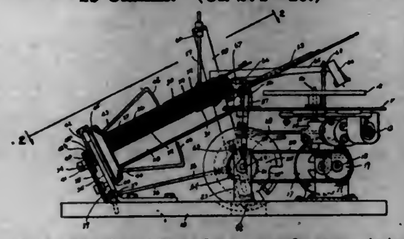
1. A new composition of matter for forming strong, heat insulating, non-shrinking concrete comprising an intimate mixture of 15 to 40% of a quick setting Portland cement, 40 to 65% of mineral wool and 20 to 30% of a diatomaceous earth.

1,920,359
VESSEL AND TRACK CONSTRUCTION FOR REFRIGERATORS
Alvie C. Crimmel, Hartford City, Ind.
Application July 21, 1932. Serial No. 623,835
12 Claims. (Cl. 221—68.)



1. In combination with a pair of spaced substantially horizontal trackways, a receptacle slidably and tiltably supported thereon and partially depending between the same, including a peripheral body wall positioned between the trackways and terminating in a relatively large upwardly directed mouth, opposite substantially flat sides, and connections between the sides and body, said connections being arranged for supporting the receptacle upon the trackway and being a concave fillet with a comparatively sharp inner squared corner.

1,920,360
AUTOMATIC RECORD CHANGING PHONOGRAPH
Joseph Arnold Darwin, East Orange, N. J., assignor to the Capehart Corporation, Fort Wayne, Ind.
Application July 28, 1931. Serial No. 553,596
13 Claims. (Cl. 274—10.)



1. In an automatic phonograph, a rotatable turntable, a magazine positioned wholly to one side of the turntable for containing a stack of records supported one upon the other to be reproduced on said turntable, means for movably supporting said magazine mechanism for sliding a record from the top of the stack, transferring it to horizontal position on said turntable and returning the same after reproduction to said magazine, and means for reversing the position of said magazine for permitting a reproduced record to be repositioned upon said turntable in reverse position.

1,920,361
PENCIL AND METHOD OF FINISHING SAME
William Dancke, Linden, N. J., assignor to Joseph Dixon Crucible Company, Jersey City, N. J., a Corporation of New Jersey
Application May 18, 1932. Serial No. 611,971.
7 Claims. (Cl. 41—38.)



4. The method of finishing a pencil which comprises applying a primary coat of coloring material thereto, knurling the pencil by pressure after drying the primary coat to produce parallel longitudinally extending depressions with ridges therebetween without removing the material of the primary coat, applying a secondary coat of material of different color from the first coat, and before the secondary coat dries removing surplus portions thereof by passing it through a hole in a resilient member, said hole having a cross-section complementary to that possessed by the pencil before it was knurled.

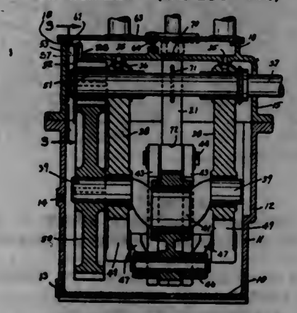
7. A pencil of the character described comprising an elongated body portion provided on its periphery with longitudinally-extending rounded ridges with depressions located between them, a primary coating of substantially uniform thickness of finishing material entirely covering the periphery of the pencil, and a secondary coating of variable thickness of finishing material disposed over the primary coating, the thicker portions of said secondary coating being located in the depressions and the thinner portions thereof being located on the ridges.

1,920,362
HOLLOW RIVET SETTING TOOL
Ernest P. Dean, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a Corporation of Washington
Application October 9, 1931. Serial No. 567,869
10 Claims. (Cl. 218—19.)



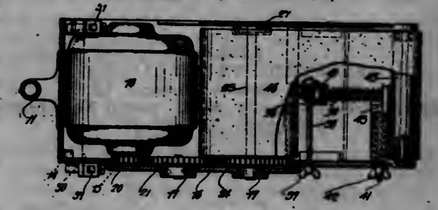
1. A tool for setting hollow rivets by drawing out a nail shank to spread the rivet shank with the nail head, comprising a die apertured to receive the nail shank and to bear upon the rivet head, and cooperating elements reacting from said die and each mounted on the same pivot, disposed thereon, to clamp the nail shank and to draw the nail through the die and outwardly of the rivet.

1,920,363
PUMP MECHANISM
Stuart Dean, Indianapolis, Ind., assignor to Dean Brothers Co., Indianapolis, Ind., a Corporation
Application March 13, 1931. Serial No. 522,257
12 Claims. (Cl. 184—11.)



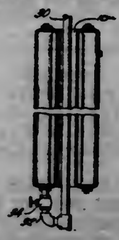
1. In a pump the combination of an overhead lubricant supply basin having gravity, supplying outlets and an inlet opening discharging above the bottom of the basin, a pair of meshing gears therebeneath, the lower gear being adapted to run in lubricant, a disc rotatably mounted adjacent the upper gear and overlapping the meshing contact of the gears for receiving lubricant discharged from the gears at the contact, and scraping means positioned adjacent the disc in juxtaposition to the inlet for receiving lubricant from and carried by the disc and discharging the lubricant to the basin.

1,920,364
SURFACING MACHINE
Nicklous Degen, Mason City, Iowa
Application November 27, 1931
Serial No. 577,647
3 Claims. (Cl. 51—170)



1. In a surfacing machine, a housing, an abrading belt, a pair of rollers mounted in the housing for mounting said abrading belt, one of said rollers being an idle roller, a plate slidably mounted in the housing for supporting said idle roller, means for driving the other roller to drive the belt, means for adjusting said plate transversely of the housing, and resilient means for moving said plate longitudinally of the housing to place the abrading belt under tension.

1,920,365
RADIATOR
Harry Del Mar, New York, N. Y.
Application August 15, 1931. Serial No. 557,247
7 Claims. (Cl. 257—141.)

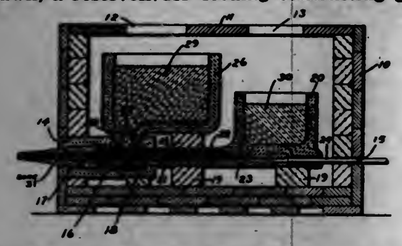


4. A radiator of the character described comprising in combination, a vertically disposed jacket having inlet and outlet connections, a flue formed by the inner wall of said jacket, and a feed line passing through said flue.

1,920,366
MANUFACTURE OF DRAWN GLASS
Joseph A. De Silva, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York
Application January 14, 1932. Serial No. 586,643
7 Claims. (Cl. 49—17.1)

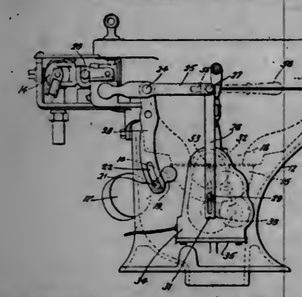
5. In an apparatus for drawing glass tubing, a horizontal shaping sleeve from which the glass is drawn in the form of tubing, a molten glass reservoir for feeding glass into the sleeve, means extending into the sleeve to shape and introduce a

stream of contrasting glass into the glass as it is drawn, a reservoir for feeding contrasting glass



into the shaping and introducing means, and means to form a bore in the glass as it is drawn.

1,920,367
ELECTRIC WATER CLOSET
John C. Duner, Chicago, Ill.
Application January 21, 1931. Serial No. 510,078
5 Claims. (Cl. 4—8)



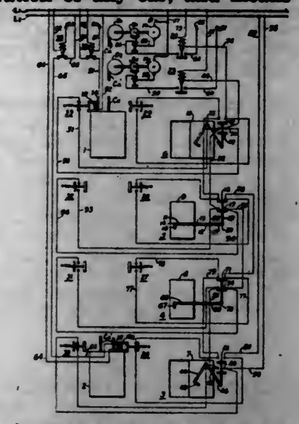
3. A water closet, comprising a closet bowl, a dump pan normally closing the outlet of said bowl and pivoted to swing downwardly in flushing, an electric motor and connections between said motor and said dump pan for swinging said dump pan downwardly in dumping and returning said dump pan after flushing.

1,920,368
METHOD OF PRODUCING NITROGEN CONTAINING CASES
John J. Egan, Brooklyn, N. Y., assignor to Electro Metallurgical Company, a Corporation of West Virginia
No Drawing. Application May 14, 1929
Serial No. 363,113
10 Claims. (Cl. 148—16)

3. The method of producing hard nitrogen-containing cases on ferrous alloy articles which comprises treating the articles by heating to temperatures of about 460° C. to about 580° C. in the presence of ammonia and at least one of the following substances: urea, a solid alkali cyanide, a solid alkaline earth cyanamide.

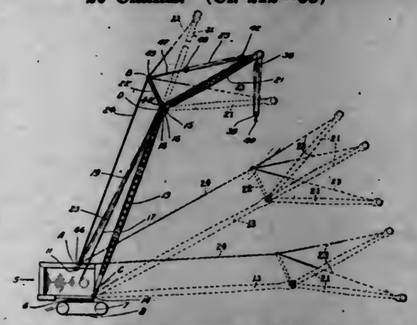
1,920,369
ELEVATOR DOOR OPERATING SYSTEM
Charles E. Ellis, Jr., Mahwah, N. J., assignor to Westinghouse Electric Elevator Company, Chicago, Ill., a Corporation of Illinois
Application September 30, 1932
Serial No. 635,520
8 Claims. (Cl. 187—16)

1. In an elevator system having a plurality of cars operable past a plurality of doors in a hatchway, means associated with each door and responsive to an open position thereof for preventing operation of any car, and means operably



responsive to the stopping of a car at a door for rendering ineffective the preventing means associated with that door for the other cars.

1,920,370
EXTENSION BOOM FOR CRANES
Charles E. Forsythe and James A. Forsythe, New York, N. Y.
Application November 14, 1931. Serial No. 574,997
20 Claims. (Cl. 212—55)

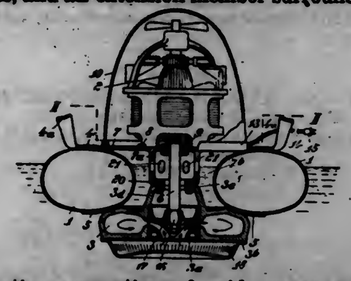


1. As an article of manufacture, an extension boom for use with the pivotally mounted boom of a crane, derrick and the like, said extension boom having a detachable pivotal mounting on said crane boom and means for arcuately swinging said extension boom in a vertical plane about said pivotal mounting, said swinging means including, in combination, a strut, a fixed guy for supporting said strut, and adjustable means between said strut and the outer end of said extension boom for raising and lowering the extension boom about its pivotal mounting independently of movement of the crane boom about the latter's pivotal mounting.

1,920,371
FLOATING PUMP UNIT
John Coard Franke, Berlin-Wilmersdorf, Germany
Application April 12, 1932, Serial No. 604,817, and in Germany April 18, 1931
4 Claims. (Cl. 103—87)

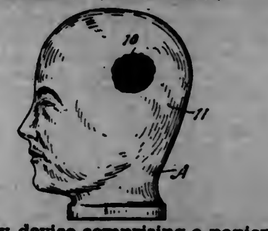
1. A floating pump unit comprising a source of power, a pump operatively connected to said source, a float connected to said unit and so arranged that said source is above, and said pump

is below, the level of the liquid on which the unit floats, and an extension member surrounding the



operative connection of said source and said pump, said member having holes therein which extend partly above and partly below the level of the liquid.

1,920,372
PAPIER-MÂCHÉ ARTICLE
Alfred C. Fulton, Ashtabula, Ohio, assignor to the Aetna Rubber Company, Ashtabula, Ohio, a Corporation of Ohio
Application January 21, 1932. Serial No. 587,932
4 Claims. (Cl. 40—126.)



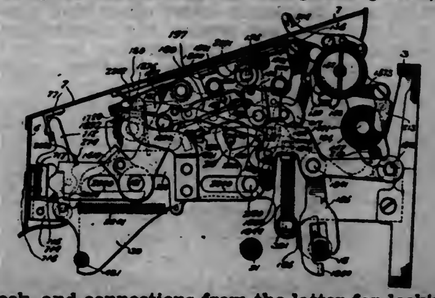
1. A display device comprising a papier-mâché body portion, and a coating of rubber, said rubber coating impregnating the adjacent surface of said papier-mâché.

1,920,373
PROCESS OF SYNTHESIZING ORGANIC COMPOUNDS CONTAINING OXYGEN
Henri Albert Gesselin, Montereau, France, assignor to Société Chimique de la Grande Paroisse Azote & Produits Chimiques, Paris, France, a Corporation of France
No Drawing. Application January 23, 1931, Serial No. 510,850, and in France February 7, 1930
5 Claims. (Cl. 260—112)

1. A process for the production of oxygen-containing aliphatic compounds by the action of carbon monoxide on water vapor, in which artificial zeolites, resulting from the union of salts of a strongly alkaline character with metallates, are employed as catalysts.

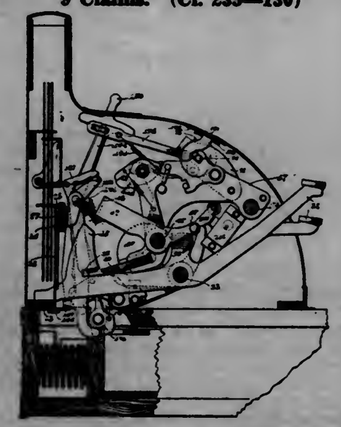
1,920,374
CASH REGISTER
Charles W. Green, Ilion, N. Y., assignor, by mesne assignments, to the National Cash Register Company, Dayton, Ohio, a Corporation of Maryland
Application October 20, 1925. Serial No. 63,695
19 Claims. (Cl. 235—2)

3. In a machine of the class described, a plurality of totalizers, item entering means therefor, a normally locked platen pivoted between said totalizers and adapted to rock in either direction to print a total from one totalizer or another, manipulative means for rocking said platen, a



lock, and connections from the latter for locking said item entering means and releasing said platen for operation.

1,920,375
CASH REGISTER
Charles W. Green, Ilion, N. Y., assignor, by mesne assignments, to the National Cash Register Company, Dayton, Ohio, a Corporation of Maryland
Original application April 13, 1927, Serial No. 183,392. Divided and this application May 17, 1930. Serial No. 453,163
9 Claims. (Cl. 235—130)

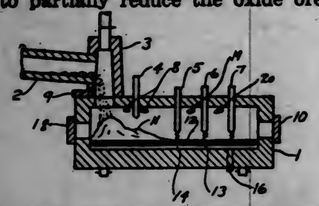


1. In a cash register, the combination of a totalizer, a plurality of operating keys adapted to insert items in the totalizer, said totalizer comprising a plurality of readable totalizer elements, a shutter normally concealing said elements from view, a manually operable device for restoring the totalizer elements to zero, means comprising a plate for normally preventing operation of the manually operable device, means for locking the operating keys, and a single, manually operable control lever for simultaneously operating the keylocking means and moving the shutter and plate to ineffective position.

1,920,376
ELECTROTHERMIC REDUCTION PROCESS
Albert E. Greene, Medina, Wash.
Application December 18, 1930. Serial No. 503,235
14 Claims. (Cl. 75—22.5)

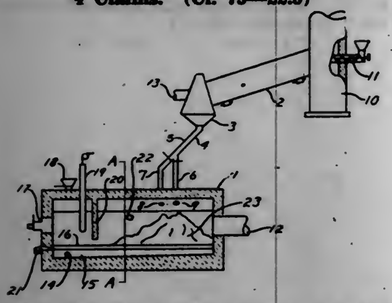
1. The method of reducing oxide ore and producing a low carbon metal, said method consisting in preparing a charge of intimately mixed

and fine ore, carbonaceous material and flux, the latter in such amount as to form a slag comprising acid and basic oxides other than those desired reduced, then feeding the charge into a reducing and melting chamber and heating it there to partially reduce the oxide ore, subse-



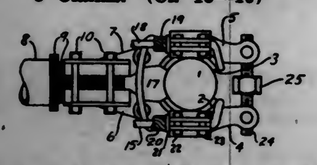
quently melting the slag material and maintaining in it a sufficient amount of the metal oxide to cause low carbon metal to be collected beneath, but limiting the temperature whereby the reduced metal forms a solid or semi-solid mass beneath the slag.

1,920,377
SELECTIVE REDUCTION
Albert E. Greene, Medina, Wash.
Application July 16, 1931, Serial No. 551,180, and in Canada June 18, 1925
4 Claims. (Cl. 75—22.5)



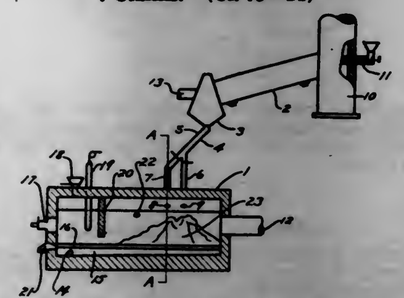
1. The method of treating an iron ore containing phosphorus to reduce the iron and separate it from the phosphorus, said method comprising preparing a charge of crushed ore, carbonaceous material and calcium oxide material in proportions to not completely reduce the iron oxide and to form a slag containing at least ten percent of iron oxide and over fifty percent of calcium oxide, passing this charge into a smelting hearth chamber and heating it on a bath of molten slag therein to a temperature sufficient to reduce the oxide of iron but insufficient to reduce the phosphorus or fuse the charge, and subsequently fusing the slag forming materials and collecting the reduced iron beneath the slag.

1,920,378
ELECTRIC FURNACE ELECTRODE HOLDER
Albert E. Greene, Medina, Wash.
Application July 16, 1931. Serial No. 551,181
3 Claims. (Cl. 13—16)



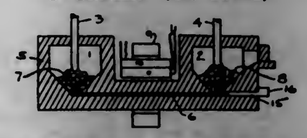
1. An electrode contact element comprising a water-cooled contact portion, and an integral lug having a recess for the reception of a conductor and having a separate passage for cooling fluid in the lug adjacent the conductor surface.

1,920,379
PRODUCING AND MELTING SPONGE IRON
Albert E. Greene, Medina, Wash.
Application July 17, 1931, Serial No. 551,410, and in Canada June 18, 1925
7 Claims. (Cl. 75—14)



1. The method of producing molten iron from iron oxide material which comprises reducing the iron oxide at a temperature below the sintering point of the material in the presence of an excess of carbonaceous material, passing the resulting product containing reduced iron together with carbonaceous matter and unreduced material into a melting furnace, and collecting the reduced metal in molten condition beneath a slag containing oxide of iron in sufficient quantity to prevent the remaining carbonaceous material from entering the molten metal beneath.

1,920,380
ELECTRIC INDUCTION FURNACE
Albert E. Greene, Seattle, Wash.
Application March 24, 1932. Serial No. 601,014
5 Claims. (Cl. 13—4)

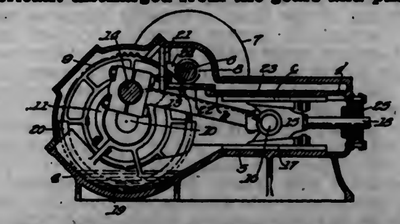


1. In an induction furnace comprising a straight channel section as part of the single turn induction circuit, said straight section connecting with two larger chambers having adjustable electrodes entering from above, means for inserting a bar thru the straight channel so as to extend into both the larger chambers, whereby a circuit can be completed from one electrode thru the bar to the other electrode.

1,920,381
LUBRICATING MEANS FOR PUMPS
Edgar E. Greve, Bellevue, Pa., assignor, by mesne assignments, to Oil Well Supply Company, of Pittsburgh, Pa., a Corporation of New Jersey
Application February 13, 1929. Serial No. 339,624
2 Claims. (Cl. 184—13)

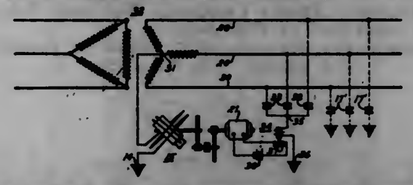
1. The combination with a pump casing having a lubricant reservoir disposed therein, a pair of spaced apart curved troughs associated with the reservoir and communicating therewith, a gear mechanism within the casing including a pair of gears each operable within a trough, and

a pair of pinions mounted above the liquid level and meshing with the gears, and means associated with the pinions for catching and passing lubricant discharged from the gears and pinions



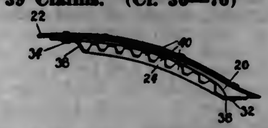
to other working parts of the pump including a baffle plate located intermediate of the gears, and centrally disposed troughs disposed below said pinions.

1,920,382
NEUTRAL-IMPEDANCE DEVICE
Samuel B. Griscom and Robert D. Evans, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania
Application June 5, 1931. Serial No. 542,348
13 Claims. (Cl. 172—237)



2. In combination with an alternating-current system, means for establishing an electrical neutral point in said system, means for connecting said neutral point to the ground through an inductive circuit, and means for changing the reactance of said inductive circuit through a predetermined range of values, upon the passage of current through said circuit.

1,920,383
SHANK PIECE AND METHOD OF MAKING SHOES
John B. Hadaway, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application April 26, 1930, Serial No. 447,664
Renewed September 2, 1932
39 Claims. (Cl. 36—76)

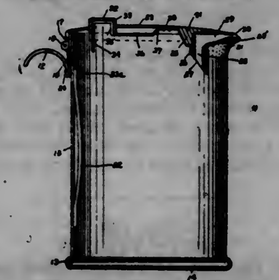


18. A collapsible shank piece comprising a longitudinally arched strip having a portion offset from the curve of the arch to hold the body portion of the strip initially spaced a substantial distance from the insole of a shoe in which the shank piece is to be incorporated, said offset portion being non-resilient and constructed and arranged to yield under the application of a predetermined amount of pressure applied during the manufacture of the shoe to enable the body portion of the strip to be pressed into and permanently to retain a position closer to the insole of the shoe.

1,920,384
STOVE WICK AND ITS COMPOSITION
Adolph A. Halter, Cleveland, Ohio
No Drawing. Application June 2, 1932
Serial No. 615,035
2 Claims. (Cl. 67—69)

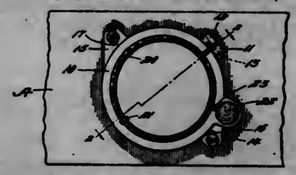
1. A wick for the purpose specified made of pumice four parts, charcoal one part, coke one part, sand one part, grit one part, resin one-eighth part, silicate of soda and water mixed into a paste, then dried, and then vitrified by heat.

1,920,385
CAN PERFORATING AND CONTENTS POURING LID
Victor N. Hamilton, Los Angeles, Calif., assignor to W. D. Rogers and Harry Kema, both of Los Angeles, Calif.
Application October 25, 1930. Serial No. 491,168
2 Claims. (Cl. 65—61)



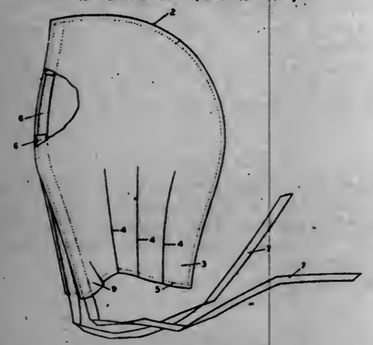
2. In a device as described, in combination a tubular can, a lid closing the same and hinged thereto at one end, said lid having a circular hole, a cap telescoping in said hole with its closed part disposed outermost, a spring arm having an upturned terminal secured to the underside of the lid, whereby it is spaced below the lid, the opposite end of the spaced portion of the spring arm being shaped to provide an inverted U-shaped member engaging the closed top and the side wall of the cap and having a terminal projecting below the cap at right angles to the spring arm and forming a prick punch.

1,920,386
RING HOLDER
Charles E. Harding, Whitinsville, Mass., assignor to Whitinsville Spinning Ring Company, Whitinsville, Mass., a Corporation of Massachusetts
Application March 26, 1932. Serial No. 601,323
5 Claims. (Cl. 118—59)



1. In combination, a split ring holder adapted to be seated on a ring rail, a ring holding flange on said ring holder, a ring seated on said flange, an annular oil groove in said ring, a wick in said oil groove, an oil reservoir in said holder, said holder having a communicating passage communicating said reservoir with said ring oil groove, and means engaging the split ends of said ring holder for locking said ring in said holder.

1,920,387
WAVE SAVING CAP
Florence Harper, Port Washington, N. Y.
Application March 2, 1933. Serial No. 659,297
2 Claims. (Cl. 2—68)



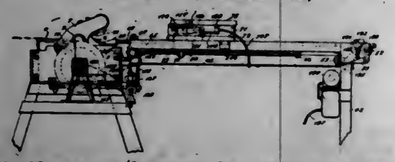
1. A wave saving cap comprising a head and neck covering portion of chamois having its exterior surface waterproofed and its interior body portion absorbent to perspiration, said head and neck portion being shaped to fit the contour of the head and retain the hair in position, and means including a tape for fastening the cap.

1,920,388
SHEET-FEEDER
Charles W. Harreld, Cleveland, Ohio, assignor to Harris - Seybold - Potter Company, Cleveland, Ohio, a Corporation of Delaware
Application November 19, 1930
Serial No. 496,616
20 Claims. (Cl. 271—30)



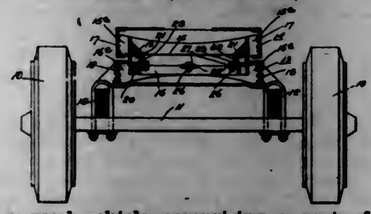
1. In a sheet-feeder, sheet-forwarding means and suction means for separating and advancing a sheet from a pile to said forwarding means, said suction means being moved forwardly and downwardly beneath the sheet when said sheet is under control of said forwarding means.

1,920,389
SHEARING MECHANISM
Edgar M. Hawkins and Otto M. Hoch, Rochester, N. Y., assignors to M. D. Knowlton Company, Rochester, N. Y., a Corporation of New York
Application August 22, 1930. Serial No. 477,058
45 Claims. (Cl. 164—49)



21. Shear mechanism for cutting a web of moving material, comprising a frame slidable in a direction parallel to the direction of movement of the web, relatively movable cutting blades mounted on said frame, actuating means for reciprocating said frame and moving said blades relatively to each other, a delivery table, a trip carriage adjustably fixed to said table, a trip plate on said carriage in the path of movement of the web, connections between the trip plate and the actuating means to initiate the operation of the later, a slidably mounted barrier carriage, a barrier mounted on said barrier carriage, screw shafts engaging threaded nuts on the barrier carriage to connect the same with the cutter frame for concurrent reciprocation therewith and adjustment of the barrier carriage independently of the frame when the shafts are rotated, sleeves carried by the trip carriage splined to the screw shafts to permit free reciprocation of said shafts, worm gears splined to said sleeves and held against longitudinal movement on the trip carriage, longitudinal racks on the delivery table engaged by said worm gears, whereby rotation of the screw shafts will effect concurrent adjustment of the trip carriage with the barrier carriage, connections between the trip carriage and the barrier carriage to raise and lower the barrier as the barrier carriage is reciprocated, and means for simultaneously rotating said screw shafts in either direction.

1,920,390
FIFTH WHEEL CONSTRUCTION
Harry W. Helms, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin
Application June 13, 1928. Serial No. 284,925
1 Claim. (Cl. 280—125)

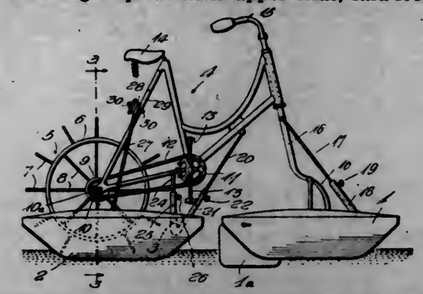


In a road vehicle comprising a main frame and a sub-frame associated with an axle, a fifth wheel structure swivelly connecting the main frame and the sub-frame and comprising a pair of cooperating members having opposed concentric annular portions whose diameter is nearly as great as the width of the sub-frame to ensure stability of the main frame thereon, the main frame comprising side rails spaced apart with the upper annular member of the fifth wheel structure disposed between them and supported by integral transverse beam elements with vertically disposed web portions secured directly to said side rails and disposed mainly between the upper and lower bounding planes of said rails, the lower member of the fifth wheel being similarly secured to the side rails of the sub-frame substantially within the upper and lower bounding planes of the same, whereby the lower side of the main frame is supported closely adjacent the upper side of the sub-frame.

1,920,391
WATER BICYCLE
Ernest C. L. Herwig, New Orleans, La.
Application September 7, 1932
Serial No. 632,019
1 Claim. (Cl. 115—27)

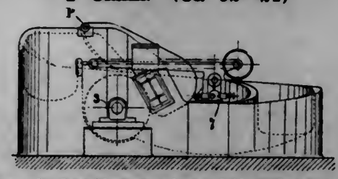
A water bicycle comprising a frame having a steering shaft and propelling wheels, a forward pontoon attached to the steering shaft, rear pontoons located one at each side of the propelling wheel and attached to the frame, rods connected

at their lower ends with the rear pontoons, said rods having loops at their upper ends, said loops



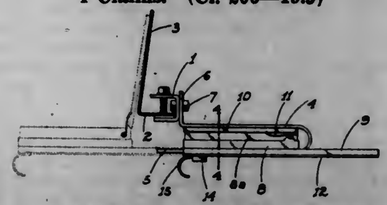
overlapping each other and securing devices passing through the loops and attaching said rods to the frame.

1,920,392
PULP BEATING ENGINE
Edouard Héry, Paris, France
Application April 25, 1931, Serial No. 532,918, and in Germany May 2, 1930
1 Claim. (Cl. 92—24)



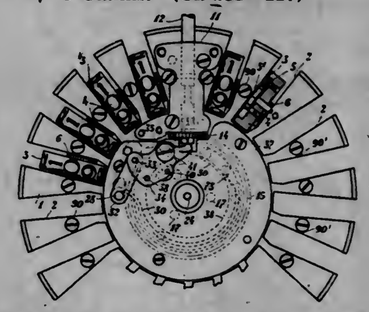
In a pulp beating engine of the class described, comprising a rotatable cylinder and a bed-plate frictionally cooperating with said cylinder, a member for supporting the bed-plate, said member being pivotally mounted on the frame of the beating engine, the pivot center being situated substantially at the intersection of the perpendicular erected on the cylinder radius passing through the center of the friction surface of the bed-plate on the cylinder at a distance from the center of the cylinder in the direction of the bed-plate equal to half the length of the maximum wear of the bed-plate, and of the perpendicular erected on the middle point of the line connecting the extreme positions of the center of the friction surface of the bed-plate.

1,920,393
CONTAINER AND HOLDER UNIT
Webb Jay, Miami Beach, Fla.
Application September 8, 1931
Serial No. 561,630
4 Claims. (Cl. 206—19.5)



1. In combination, a container, a support comprising upper and lower bars connected together at one end, means supporting the container from the lower bar for movement lengthwise thereof from a position over said bar to one beyond the free end of the upper bar, a lid hinged on the container along its edge nearest the connected ends of the bars, and a spring acting on the lid to raise the same; said container and lid when in closed relationship together fitting between the bars.

1,920,394
WATCH-SHAPED GOLF-SCORER
Georges Jeanneret, St. Imier, Switzerland
Application December 11, 1931, Serial No. 580,387, and in Germany December 17, 1930
5 Claims. (Cl. 235—117)



1. In a watch-shaped golf-scorer having a dial with pointers and a circular series of small windows disclosing the numerals of numeral wheels the combination of a circular base plate having radially arranged slots, numeral wheels mounted on axles within said slots in planes standing vertically on said base plate, said plate having a concentric circular notch cut into the teeth of the base plate left by said slots and adapted to serve as bearings for the axles of the numeral wheels.

1,920,395
PROCESS OF PRODUCING YEAST WITHOUT ALCOHOL
Ernst Jellinek, Vienna, Austria
No Drawing. Application October 15, 1930, Serial No. 488,994, and in Austria October 22, 1929
4 Claims. (Cl. 195—20)

1. Process of producing yeast without alcohol which comprises the propagating of yeast in a sugary nutritive solution while bubbling air through the solution slowly, the said process consisting essentially in allowing the yeast to propagate, adding thereto the nutritive solution, yeast nutrients and seed yeast for a complete operation, separating the produced yeast from the alcoholic wort, diluting the separated yeast with water, subjecting the same to strong aeration and slowly effecting the propagating of the said yeast by continuously adding the separated alcoholic wort to the yeast while the latter is being aerated, whereby the alcohol of the alcoholic wort is consumed and utilized as a source of carbon for the production of cells.

1,920,396
MEDICINE GLASS COVER AND MARKER
Edward Johnson, Montclair, N. J., assignor to Meinecke & Company, New York, N. Y., a Corporation of New Jersey
Application September 16, 1932
Serial No. 633,415
3 Claims. (Cl. 215—7)

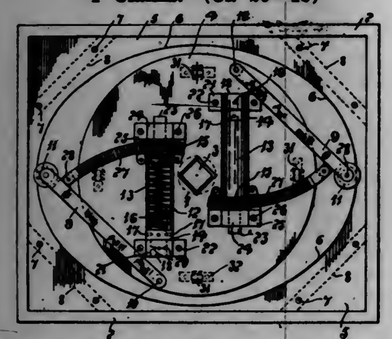
1. A medicine glass cover comprising a disc having a depending rim, part of the top portion of said disc carrying a depression therein forming a container for medicine, the wall of said depres-

sion adjacent said rim forming with the rim a groove adapted to receive the upper edge of a medicine glass and facilitate seating of said cover



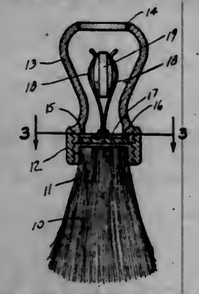
thereon and the undepressed portion of said disc providing means for the application of suitable identifying indicia.

1,920,397
REVOLVING DOOR
Frederick William Johnson, Brighton, England
Application June 30, 1932, Serial No. 620,131, and in Great Britain July 13, 1931
4 Claims. (Cl. 20—18)



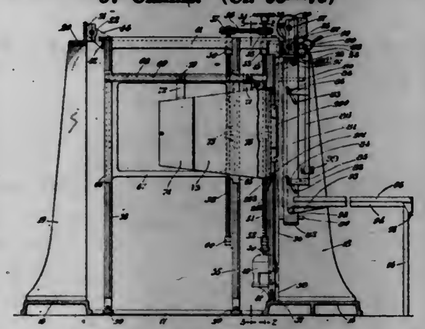
1. A device for use in conjunction with revolving doors for automatically returning a revolving door to a predetermined normal position comprising a member with a cam shaped track and a loaded member engaging its said track, one of said members being connected with the door and the other being separate from the door so that the one connected with the door is carried along the other as the door is moved to the open position, the arrangement being such that said loaded member is gradually displaced against the influence of its load as the door is rotated by reason of its engagement with and the shape of the said cam shaped track so as to store up energy which upon release of the door returns the door to the closed position.

1,920,398
SHAVING BRUSH
Edward S. Jones, Columbus, Ind.
Application October 10, 1932. Serial No. 636,992
4 Claims. (Cl. 15—133)



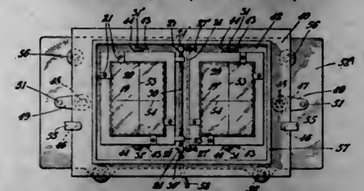
1. A shaving brush having a hollow handle and a brush portion, an externally threaded head secured to the upper end of the brush portion, an externally threaded base formed on said handle, an internally threaded collar adapted to mate therewith for removably securing said holder and brush portion together, an internal shoulder formed adjacent the base of the handle, and a holder mounted in said handle adapted to be clamped in position between said shoulder and the top of the brush portion.

1,920,399
PHOTO-COMPOSING MACHINE
Harry C. Jones, New York, N. Y.
Application February 26, 1927. Serial No. 171,126
37 Claims. (Cl. 95—76)



1. In a photo-composing machine, a pair of stationary uprights rigidly held in spaced relation, an open frame movable between said uprights in a plane parallel with their faces, a press plate carried by said frame, and cam actuated means for moving said frame and plate towards and from the body of the machine.

1,920,400
MEANS FOR MAKING REGISTERED PRINTS
Harry C. Jones, New York, N. Y.
Application May 16, 1929. Serial No. 363,467
21 Claims. (Cl. 95—76)



1. In a device for making registered prints, a pair of frames each provided with means for holding a negative, and connections, including means for adjusting one of said frames in relation to the other frame, whereby to obtain predetermined relative positives of the negatives, said connections being fixed on the respective frames.

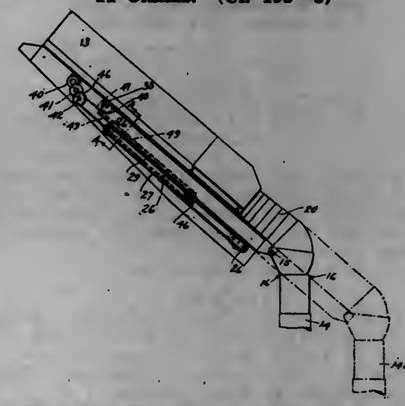
1,920,401
EYELASH CURLER
Edgar E. Kahn, Mount Vernon, N. Y.
Application November 5, 1932. Serial No. 641,328
11 Claims. (Cl. 132—32)

1. An eyelash curler comprising a member made of a single piece of resilient metal comprising a pair of arms interconnected at one end thereof, said arms normally tending to spring apart and adapted to be pressed together, a prong of concave cross-section integrally formed on one of said arms, and a prong integrally formed on the other of said arms adapted to be received within the



concave surface of said first prong upon pressing said arms together.

1,920,402
CAR DUMPER
Robert W. Kaltenbach, Cleveland Heights, Ohio
Application January 2, 1931. Serial No. 506,072
11 Claims. (Cl. 193—3)



1. In a car dumper, the combination with a material receiving pan, of a member supported by the pan and movable longitudinally thereof, a discharge chute pivotally connected to said member, a closed extensible connection between the lower end of the pan and the upper end of the chute for providing communication between the pan and chute, and an electric motor operatively connected to said member for moving it with reference to the pan, whereby the chute may be moved, as a unit, with reference to the pan, while remaining in operative communication therewith.

1,920,403
PROCESS FOR PRODUCING POLYMERIZATION PRODUCTS OF VINYL HALIDES
Fritz Klatte, Rheinfelden in Baden, and Hermann Müller, Frankfort-on-the-Main/Schwanheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application August 4, 1931, Serial No. 555,135, and in Germany August 8, 1930
6 Claims. (Cl. 260—2)

1. The process of producing polymerization products of vinyl chloride which comprises heating 1000 parts of vinyl chloride containing about 5 parts of benzoyl peroxide within an autoclave to about 50 to 60° C., maintaining said temperature for about 24 hours and distilling off the unconverted monomeric vinyl chloride from the resulting pulverulent polyvinyl chloride.

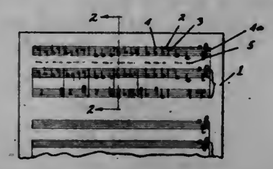
6. In the process for polymerizing vinyl halide by exposure to heat in the presence of a peroxide catalyst and in the absence of a diluent, the steps which comprise activating the vinyl halide by exposing it in the gaseous state to the action of actinic light rays, carrying out polymerization in a closed vessel at a temperature between about 30 to about 60° C., interrupting polymerization when about one half of the monomeric vinyl halide is polymerized and thereupon separating the polymerized product by distilling off the monomeric vinyl halide.

1,920,404
NUT SHREDDING MACHINE
Edwin B. Knowles and John J. Parnell, Albany, Ga.; said Parnell assignor to B. R. W. Knowles, Albany, Ga.
Application July 13, 1931. Serial No. 550,315
2 Claims. (Cl. 146—113)



1. In a nut shredding device, a base, an opening in said base, a ledge integral with said base and extending over said opening, a shield plate at one end of the base, a bracket at the opposite end of the base, a resilient clamping arm for the base formed on said bracket, a feed screw having its opposite ends rotatably mounted in the shield plate and bracket, means for rotating the screw, means for frictionally holding a nut against the screw, and a cutter secured to the screw adjacent to the shield plate.

1,920,405
PROCESS OF MAKING FINE LINE PRINTING PLATES
Joseph Kornmann, Cincinnati, Ohio
Application May 14, 1930. Serial No. 452,401
3 Claims. (Cl. 41—46)

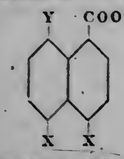


1. The method of making a fine line printing plate which consists in first mechanically sinking a design in a master plate, applying a coating of ink to the master plate without filling in the sunken design, transferring the coating of ink to a transparent sheet, and utilizing said sheet as a photographic negative to produce the printing plate.

1,920,406
PROCESS OF PREPARING DERIVATIVES OF NAPHTHALENE-1.4.5.8-TETRACARBOXYLIC ACID
Georg Kränzlein and Heinrich Vollmann, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware
No Drawing. Application July 17, 1931, Serial No. 551,558, and in Germany August 14, 1930
5 Claims. (Cl. 260—124)

1. The process which comprises heating at a

temperature of between about 100° C. and about 300° C. a compound of the general formula:



wherein Y stands for a halogen atom and one X represents a carboxylic acid group and the other X a halogen atom with cuprous cyanide, at least one of the reaction components being dissolved in a dissolving agent.

1,920,407

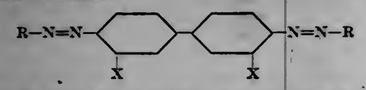
YELLOW AZO DYESTUFF

Rudolph Krech, Mannheim, Wilhelm Scheurer, Ludwigshafen - on - the - Rhine, and Adolph Koch, Hochst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application June 14, 1932, Serial No. 617,259, and in Germany February 28, 1931

8 Claims. (Cl. 260—78)

1. Azo coloring matters corresponding to the general formula:



in which the X's are hydrogen or methyl groups or methoxy groups, and R is the radicle of an acetoacetic acid arylide free from carboxylic, sulphonic and azo groups.

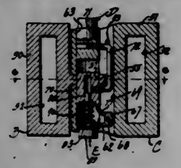
1,920,408

COUPLING DEVICE

Harvey E. Lafayette, Waukegan, Ill., assignor to Irving Air Chute Company, Inc., Buffalo, N. Y., a Corporation of New York

Application July 13, 1931. Serial No. 550,578

29 Claims. (Cl. 24—230)



1. In a coupling the combination of a pair of complementary connecting parts having apertured connecting portions, a locking pin for releasable extension through the openings to connect said parts, and plunger actuated pivoted detent means for normally holding said locking pin in a locking connection of said coupling parts.

1,920,409

SWAGED TIP FOR MECHANICAL PENCILS

William H. Lindemon and Mark George Lammers, Fort Madison, Iowa, assignors to W. A. Sheaffer Pen Company, Fort Madison, Iowa, a Corporation of Delaware

Application February 24, 1931. Serial No. 517,899

1 Claim. (Cl. 29—148.2)

The method of forming a tip for mechanical pencils consisting in upsetting one end of a metallic tube to form a thickened wall tapering inwardly to a fixed internal diameter extending over a substantial area at the other end thereof while retaining a uniform external diameter over the full length, in swaging said tube to provide a



conical-shaped exterior and a uniform internal diameter at said thickened wall, and in internally threading said thickened wall at said uniform diameter.

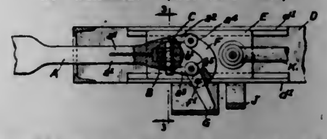
1,920,410

RAILWAY CAR COUPLER

Rudolf Lorenz and Heinrich Egen, Essen, Germany, assignors to Fried. Krupp Aktiengesellschaft, Essen, Germany, a Corporation of Germany

Application March 15, 1932, Serial No. 598,900, and in Germany May 1, 1931

10 Claims. (Cl. 213—12)



1. In combination with a car frame, a bar slidably mounted thereon, a coupler pivotally attached thereto, and means to clamp said coupler to said bar to prevent swinging movement thereof.

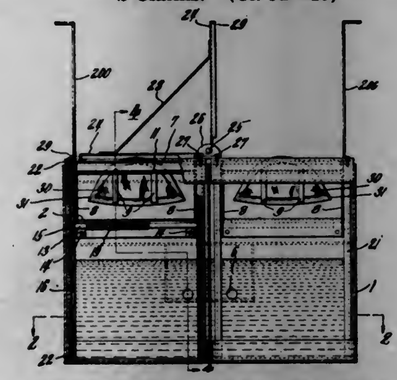
1,920,411

APPARATUS FOR CONDITIONING SHOE STIFFENER PARTS AND THE LIKE

Stanley P. Lovell, Newton, Mass., assignor to Arden Box Toe Company, Watertown, Mass., a Corporation of Massachusetts

Application January 13, 1932. Serial No. 586,299

2 Claims. (Cl. 91—46)



1. In apparatus of the class described, a carriage for receiving a row of blanks in spaced, vertical relationship, a horizontal shaft on which said carriage is mounted rotatably secured to said carriage, a gear affixed to said shaft, a vertical rack with which said gear engages, means permitting a downward movement of said carriage under an applied force so as to cause a rotation of said shaft by said rack, and a coil spring encompassing said shaft and one end of which is fixed to said shaft and the other to said carriage, whereby said spring becomes tensioned during the descent of said carriage and causes its automatic ascent when the applied force is removed.

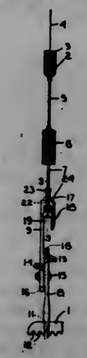
1,920,412

HARNESS CONNECTION FOR LOOMS

Henry Lussier, Salem, Mass.

Application February 23, 1933. Serial No. 657,942

3 Claims. (Cl. 139—88)



1. In combination with a loom having harness actuating means and a harness provided with a connecting staple projecting downwardly from the harness, a connector extending between the harness actuating means and said staple comprising a two-section longitudinally adjustable body, means for positively locking the two sections in adjusted position, means for securing the connector to the harness actuating means, a screw having threaded engagement with the upper end of the body and adjustable longitudinally thereof acting by engagement at its lower end with the staple on the harness to adjust the effective length of the connector, thereby constituting a supplemental adjustment to the adjustment provided by the two-section body and means to flexibly attach the connector to the staple.

1,920,413

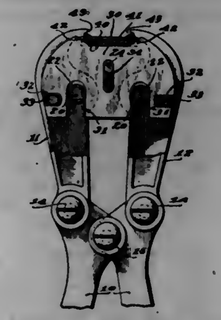
DEVICE FOR APPLYING BOX STRAPS

Francis L. McGary, Hardinsburg, Ky.

Application May 28, 1928. Serial No. 281,126

Renewed June 18, 1931

7 Claims. (Cl. 81—9.1)



1. A device for applying box straps comprising a pair of supporting plates, jaws pivotally mounted on the plates and provided at their inner faces with cutting edges, a die plate removably mounted on the supporting plates and cooperating with the jaws and moved by the movement thereof for shearing by a draw cut the metal of an assembled sleeve and overlapped strap ends, and means for actuating the jaws.

1,920,414

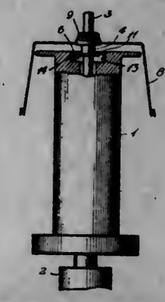
FLIER CONSTRUCTION

Michael J. McHale, Scranton, Pa.

Application February 19, 1931. Serial No. 517,023

8 Claims. (Cl. 117—23)

1. A flier assembly for spinning machines, including in combination, a flier having a concentric foot member of uniform diameter and



mounted for rotation on a spindle, a bobbin on said spindle, and a removable bushing having an ovoid shaped aperture in the end of said bobbin and in locking engagement with said foot.

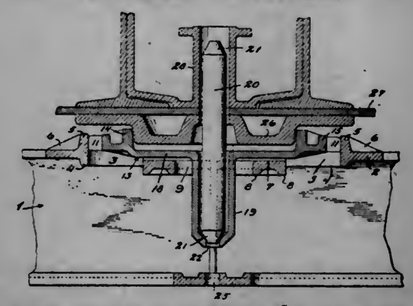
1,920,415

CENTER PLATE AND GUIDE STRUCTURE

Mark H. Martin, Baltimore, Md., assignor to T. H. Symington & Son, Inc., Baltimore, Md., a Corporation of Maryland

Application October 15, 1927. Serial No. 226,446

17 Claims. (Cl. 105—201)



1. In a truck and body bolster combination, a connection therebetween comprising a depending center plate on the body bolster, a member mounted for sliding movement longitudinally of the truck bolster and embracingly engaging the center plate, and a king pin engaging said member and the center plate.

1,920,416

COLLAPSIBLE GRILLAGE GUARD FOR DOOR AND WINDOW OPENINGS

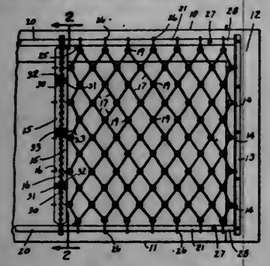
Ernst Melaun, Indianapolis, Ind.

Application March 13, 1931. Serial No. 522,219

2 Claims. (Cl. 20—71)

1. A collapsible grillage guard for openings such as windows and doors, including a pair of substantially parallel support and retaining members positioned in juxtaposition to opposite sides of the opening to be guarded, a plurality of substantially parallel anchorages slidably associated with said members and approximately transverse thereto, a plurality of rings adapted to

lie in a single plane including the anchorages and the support members, and a plurality of links also in said plane, each having eyes at opposite ends, one eye being loosely connected to a ring or anchorage and extending diagonally and the other eye of said link being loosely connected to another ring for forming a collapsible rectangularly ar-



ranged link grillage whereby the grillage may be collapsed into a small compass and when collapsed does not extend longitudinally beyond the spacing between the parallel supports and lies between the anchorages and does not project laterally from said plane.

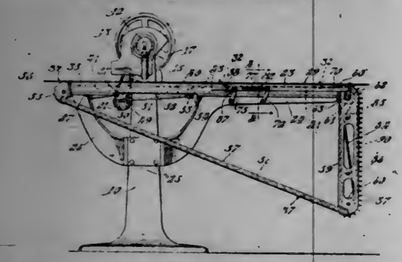
1,920,417

CONVEYING MECHANISM FOR A STITCHING MACHINE AND THE LIKE

Irving R. Metcalf, St. Charles, Ill., assignor to Latham Machinery Company, a Corporation of Illinois

Application May 27, 1929. Serial No. 366,210

37 Claims. (Cl. 198—221)



2. A conveying mechanism comprising a frame, conveying dogs mounted on said frame, power actuating means for moving said dogs relatively with respect to each other, said actuating means being mounted on said frame for imparting a step by step movement to said dogs, and means mounted on said frame and actuated by said first named means for successively positioning said dogs to be engaged by said actuating means.

1,920,418

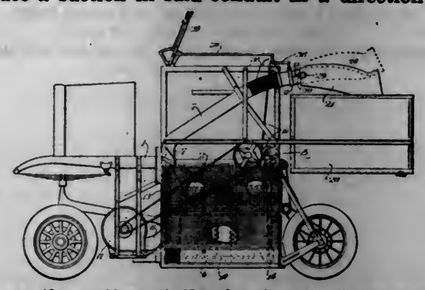
MEANS FOR CONVEYING AND CLEANING COTTON IN A HARVESTING MACHINE

George R. Meyercord and William Waterman, Chicago, Ill.; said Waterman assignor to said Meyercord

Application June 3, 1931. Serial No. 541,758

12 Claims. (Cl. 56—14)

1. In a cotton harvesting machine having means to pick cotton and discharge it in a predetermined zone, a trough positioned to receive the cotton thus discharged, a conveyer screw in said trough, a conduit extending transversely of the screw and having an open end adjacent to the forward end of the screw, and means to produce a suction in said conduit in a direction to



draw the cotton at the front end of the screw into the conduit.

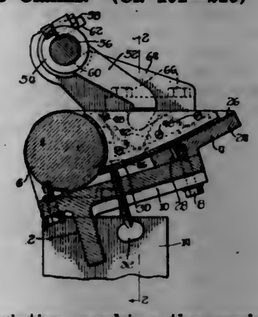
1,920,419

PRINTING MACHINE

Walter K. Miller, La Grange, Ill., assignor to Shellmar Products Company, Chicago, Ill., a Corporation of Delaware

Application December 5, 1931. Serial No. 579,179

3 Claims. (Cl. 101—210)



1. In a printing machine, the combination of an ink feeding roll, an ink receptacle, a partition for said receptacle, a batt of fibrous material carried by said partition and adapted to conform to the contour of said roll and receptacle for preventing passage of ink from one part of said roll and receptacle to another, said partition having a recess portion, and an arm received in said recess for holding said partition in position.

1,920,420

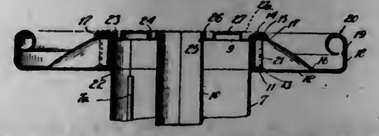
METALLIC SPOOL OR REEL

Wallace C. Mills, Rockford, Ill., assignor to J. L. Clark Manufacturing Co., Rockford, Ill., a Corporation of Illinois

Application November 20, 1929

Serial No. 408,442

17 Claims. (Cl. 242—123)



5. A spool comprising a tubular body formed of sheet metal and heads secured to opposite ends of the body and each comprising two circular plates, and a spacer member interposed between said plates adjacent the body, said spacer member being in the form of a ring of relatively thin material bent to increase the effective cross-sectional area of the ring.

1,920,421

METALLIC SPOOL

Wallace C. Mills, Rockford, Ill., assignor to J. L. Clark Manufacturing Co., Rockford, Ill., a Corporation of Illinois

Application June 9, 1930. Serial No. 459,870

10 Claims. (Cl. 242—123)



3. A spool comprising a tubular body having a plurality of lugs projecting from one end thereof, and a head comprising a disk extending radially from said body and having a plurality of slots therein through which said lugs are adapted to pass, a second disk within the body and forming an end closure plate therefor, and an annulus in the form of a fold the opposed legs of which are respectively formed integral with the two disks and bent from a point within the body upon said lugs in transverse relation to the body.

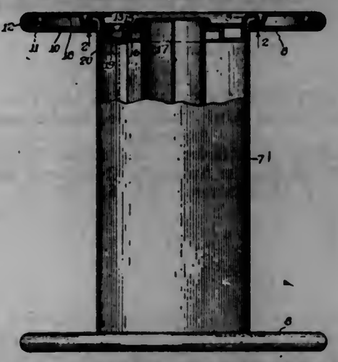
1,920,422

METALLIC SPOOL

Wallace C. Mills, Rockford, Ill., assignor to J. L. Clark Manufacturing Co., Rockford, Ill., a Corporation of Illinois

Application June 23, 1930. Serial No. 463,065

11 Claims. (Cl. 242—123)



1. A spool comprising, in combination, a tubular body having a plurality of lugs projecting from one end thereof, and a head comprising a face plate and an overlying backing plate encircling the end of the body and secured together at their outer peripheries, said backing plate engaging with the body so as to be held against movement axially thereof toward the opposite end of the body, and said face plate having an annulus formed integral therewith, said annulus being in the form of a fold adapted to receive said lugs and bent into interengaging relation thereto.

1,920,423

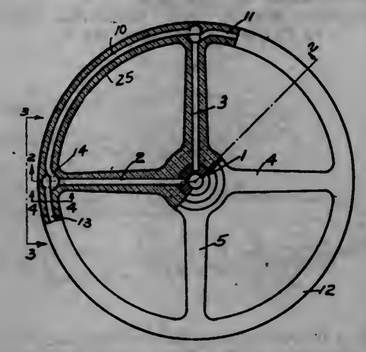
COMPOSITE STEERING WHEEL

Courtney N. Mitchell, Cleveland Heights, Ohio, assignor, by mesne assignments, to The J. & M. Machine Company, Cleveland, Ohio, a Corporation of Ohio

Application February 5, 1929. Serial No. 337,593

4 Claims. (Cl. 74—33)

1. In a wheel of the character described, the combination of a hub, a series of metallic spokes permanently secured to said hub at one end and extending radially outward therefrom, and a series of curved rim members each extending between two adjacent spokes, said rim members at their ends being overlapped and distorted to bring the rim members proper into substantially the



same circumferential plane, and said overlapped portion of said rim members being permanently secured to the outer ends of said spokes.

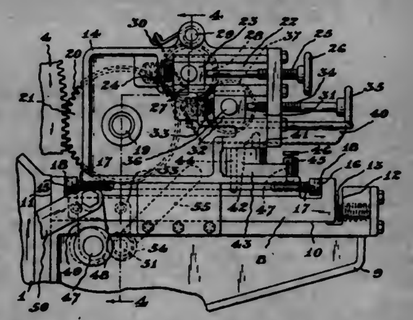
1,920,424

INKING MECHANISM

Samuel J. Mollett, Massillon, Ohio

Original application February 28, 1929, Serial No. 343,523. Divided and this application June 27, 1930. Serial No. 464,158

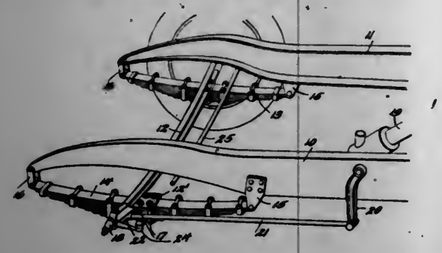
6 Claims. (Cl. 101—351)



1. The combination with a form cylinder, of an inking mechanism comprising a frame, a plurality of ink transferring rollers journaled in the frame, one of the rollers being contiguous to the form cylinder, an ink pan in which one of said rollers operates, and means for detachably supporting the ink pan on the frame comprising pivoted supporting members, one at each end of said frame movable into and out of pan supporting position, and releasable means for holding said members in pan supporting position.

3. In a printing press, the combination with a form cylinder of a carriage mounted for movement toward and away from the form cylinder, a frame slidably mounted on the carriage for adjustment in the direction of movement of the carriage, inking mechanism mounted on said frame including a roller adjacent the form cylinder, means for adjusting the frame on said carriage, a fixed stop for limiting the movement of the carriage toward the form cylinder, springs acting on the carriage to hold the same against said stop, and manually controlled means for shifting the carriage in opposition to said spring.

1,920,425
MOTOR VEHICLE
Alfred Moorhouse, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan
Application May 3, 1930. Serial No. 449,491
10 Claims. (Cl. 280—106.5)



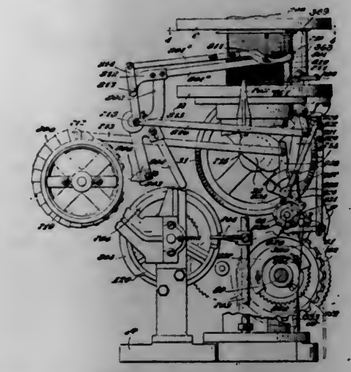
8. In a motor vehicle, in combination, two side frame members, two vehicle springs of substantially the same form and capacity, means connecting one spring to its associated side frame member and substantially similar means connecting the second spring to its associated side frame member, road wheels, stub axles upon which said wheels are rotatably mounted, and means connecting the stub axles to the springs respectively, one such means being effectively attached to its associated spring at a point which does not correspond to the point of attachment of the other such means to the second spring, so that the springs are unequally distorted when the stub axles move simultaneously toward the side frame members through equal distances.

1,920,426
VAT DYESTUFFS OF THE PYRAZOLANTHRONE SERIES AND PROCESS OF MAKING THEM
Paul Nawiasky and Artur Krause, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware
No Drawing. Original application December 21, 1926, Serial No. 156,256. Divided and this application November 25, 1927, Serial No. 235,750, and in Germany December 22, 1925
8 Claims. (Cl. 260—45)

3. The process of producing yellow to red vat dyestuffs of the pyrazolanthrone series which comprises acting with an alkaline condensing agent on a compound selected from the group consisting of alkylene dipyrazolanthrones and the alkyl-pyrazolanthrones which can be obtained by treating a pyrazolanthrone in the presence of an acid condensing agent with an alkyl ester of an aryl-sulphonic acid.

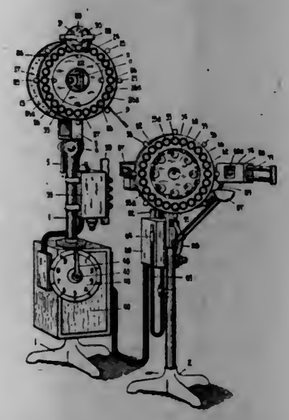
1,920,427
AUTOMATIC MACHINE FOR MAKING PATTERNED HOSIERY
Albert E. Page, Brooklyn, N. Y., assignor to Scott & Williams, Incorporated, New York, N. Y., a Corporation of Massachusetts
Application August 29, 1929. Serial No. 389,183
24 Claims. (Cl. 66—50)

1. In a knitting machine, a grooved needle carrier, needles and jacks in said grooves, a cam for advancing said jacks and needles, means for causing relative motion between said needle carrier and jack cam, and a reader cam acting transversely on said jacks, said jacks being adapted to be positioned in said carrier according to their contact with said reader cam to position said jacks out of range of their advancing cam, selector butts on said jacks at different longitudinally-spaced positions for contact with said reader cam, means for moving the reader cam in the



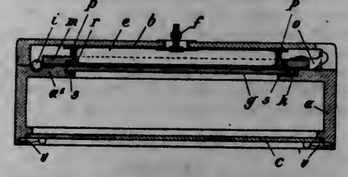
direction of the length of said jacks serially according to a pattern, and means for vibrating said reader cam first at one and then at another position longitudinally of said jacks through a distance corresponding to the spaces between recurrent selector butts.

1,920,428
OPTICAL TESTING APPARATUS
Harold George Pank, Adelaide, South Australia, Australia
Application September 18, 1930, Serial No. 482,755, and in Australia October 7, 1929
13 Claims. (Cl. 88—20)



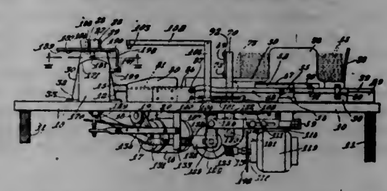
1. In an optical testing apparatus, a fixed circular disc having a central aperture therein, a series of lamps mounted at the back thereof, said disc having a series of holes corresponding to the number of lamps, a rotatable annular plate having a series of apertures therein which register with the holes in the said disc; colored glass plates fitted in the apertures of the said annular plate; bearings for supporting the annular plate, and means for rotating the latter.

1,920,429
PRINTING APPARATUS
Carl Theodor Pastor, Krefeld, Germany
Application August 4, 1931, Serial No. 554,979, and in Germany June 21, 1930
2 Claims. (Cl. 101—126)



1. A printing apparatus for mono- and multicolor printing, in which the colored picture is produced by part sieve stencils printed superposed, comprising in combination a box, a lid adapted to close said box, a transparent work plate in said box, frames adapted to be singly inserted in said box, a gauze covering each frame, guide elements adapted to automatically adjust and secure said frame to said work plate and to allow said frame to fall back on said work plate, and pressure means accommodated in said lid over said frame adapted to exert pressure on said frame.

1,920,430
AUTOMATIC SOUND REPRODUCER
Joseph N. Pepin, Chicago, Ill., assignor to G. Curtis Bird, Wilmette, Ill.
Application May 27, 1929. Serial No. 366,282
21 Claims. (Cl. 274—10)



2. In a sound reproducing device, the combination with a rotatable support, of a magazine adapted to receive a plurality of records in horizontal stacked relation, means for overturning a record from said support to effect the transfer thereof to said magazine, and means operative in timed relation with said transferring means to move the lowermost record from said magazine to said support.

1,920,431
DRUM CONTROLLER
Hans Petersen, Wauwatosa, Wis., assignor, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis., a Corporation of Wisconsin
Application December 26, 1930
Serial No. 504,974
17 Claims. (Cl. 200—8)

1. In a device of the character described, a cylindrical drum member having a plurality of means at axially and circumferentially spaced points for the attachment of independent contact segments, independent contact segments having portions adapted for engagement with the outer surface of the drum member and means engageable with any of the drum member carried means for mounting the segments on the drum member at selected locations defined by said drum member carried means and with said

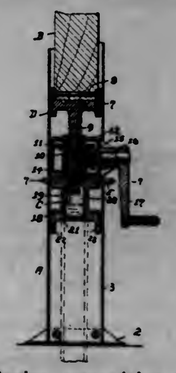


segment portions held in engagement with the outer cylindrical surface of the drum member.

1,920,432
NICKEL WELDING WIRE CONTAINING TITANIUM
Norman B. Pilling, Elizabeth, N. J., and Theodore E. Kihlgren, West New Brighton, Staten Island, N. Y., assignors to the International Nickel Company, Inc., New York, N. Y., a Corporation of Delaware
No Drawing. Application September 6, 1929
Serial No. 390,857
12 Claims. (Cl. 219—8)

1. As an article of manufacture, a welding element composed of a major portion of refined nickel, about 0.20% to about 4.0% silicon, about 0.05% to about 2.0% titanium, and more than 0.12% to about 0.2% magnesium, said magnesium being present in amount sufficient not only to combine with the sulphur present but also to be available for functioning actively during fusion welding.

1,920,433
SHORING DEVICE
Francis A. Poole, Cleveland, Ohio
Application August 13, 1928, Serial No. 299,243
Renewed December 2, 1932
14 Claims. (Cl. 254—100)



1. A shoring device, comprising a pair of telescopic members, a power device including a pair of co-operating members for effecting a spreading

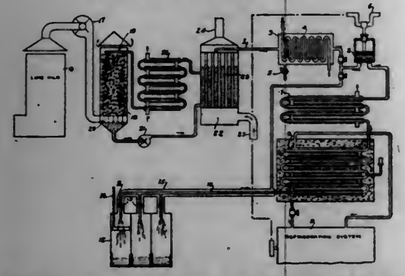
movement between said telescopic members, and means for locking said pair of power device members alternatively at different places longitudinally to one of said telescopic members.

1,920,434

SYSTEM OF MANUFACTURE OF SOLIDIFIED CARBON DIOXIDE GAS

Ford L. Prescott, Dayton, Ohio, assignor of one-third to Dann C. Squires and one-third to J. F. Diehl, Coral Gables, Fla.

Application November 4, 1929
Serial No. 404,842
1 Claim. (Cl. 62—121)



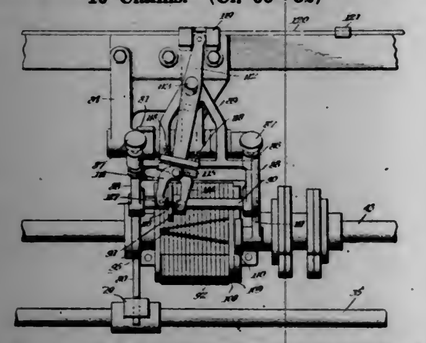
Method for solidifying carbon dioxide comprising causing the carbon dioxide to traverse a cycle in which it is successively liquefied by compression, cooled in stages by different mediums to successively lower temperature levels, at least one of which stages includes heat interchange from the compressed liquid through the walls of the evaporator of a Carnot cycle refrigeration system, and permitted to expand in a chamber, collecting the snow formed by part of the carbon dioxide in the expansion stage, returning the unsolidified portion of the expanded carbon dioxide super-cooled by the expansion to the compressor, and introducing make-up carbon dioxide gas to the induction side of the compressor, said make-up gas being precooled out of contact with the cooling medium prior to its introduction to the compressor.

1,920,435

FULL-FASHIONED KNITTING MACHINE

Emil Richter, Philadelphia, Pa., assignor to Schletter & Zander, Inc., Philadelphia, Pa., a Corporation of Delaware

Application February 15, 1930. Serial No. 428,761
10 Claims. (Cl. 66—82)



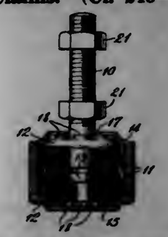
1. In a full-fashioned knitting machine having body yarn-feeding means, sinkers, a needle-bar, needles thereon and automatic means for relative adjustment of the needles and sinkers to vary the length of the stitches, the combination therewith of means for introducing auxiliary or splicing yarns in areas spaced from the selvages of the fabric, auxiliary stitch-lengthening means for causing the stitches of body yarn to be lengthened in the parts of courses falling within such areas relatively to those in the remainder of such courses, said means including a sectional cam on the main cam shaft composed of sections each carrying a riser on its peripheral face, the respective risers being of a width corresponding to the width of the different parts of said areas, substantially as set forth.

1,920,436

VIBRATION INSULATOR

Andrew L. Riker, Fairfield, Conn., assignor to Rubber Shock Insulator Corporation, Bridgeport, Conn., a Corporation of Delaware

Application March 13, 1931. Serial No. 522,286
5 Claims. (Cl. 248—16)



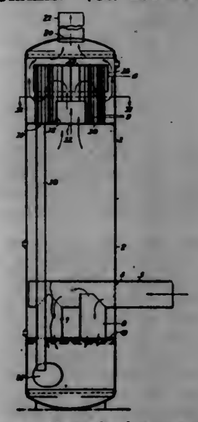
1. A vibration insulator comprising a casing formed interiorly with seats at opposite ends thereof, a damping element comprising a pair of rubber blocks respectively engaging said seats, each block being formed at its outer end with lugs bearing against said seats, a pair of oppositely cupped spacers in which the inner ends of the blocks are seated, and a bolt riveted to the spacers and passing axially through one of the blocks and the casing, the latter being formed with an opening to clear the bolt and also being peripherally spaced from the damping element.

1,920,437

SEPARATING DEVICE

Donald A. Sillers, Dallas, Tex.

Application April 11, 1930. Serial No. 443,409
5 Claims. (Cl. 183—91)



5. A mist extracting device comprising a plurality of spaced spiral vanes arranged to form a ring, said spiral vanes having pockets facing into the path of the mist, spaced plates for covering the ends of said ring, one of said plates having a wall extending around the outer periphery of said ring, and the other of said plates having an opening therein corresponding with the inner opening of said ring and a wall extending around said inner opening, both of said walls extending toward the opposite plate, and means whereby gas may be introduced into and discharged from the extractor, said inner and outer walls causing the gas to flow through the openings between the vanes in a direction at an angle to said spaced end plates.

1,920,438

TREATMENT OF ABSORBENT MATERIAL

Charles P. Spaeth, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware

No Drawing. Application November 13, 1931
Serial No. 574,916
17 Claims. (Cl. 52—18)

1. The process of producing a dynamite ingredient which comprises fusing ammonium nitrate with urea, permitting the melt to permeate and be thoroughly absorbed by an absorptive material, and cooling the impregnated absorptive material so that the melt will solidify within the pores and voids and substantially coat the surface of the absorptive material.

1,920,439

TINNING LONG STRIPS

Abram P. Steckel, Youngstown, Ohio, assignor to The Cold Metal Process Company, Youngstown, Ohio, a Corporation of Ohio

No Drawing. Application November 11, 1930
Serial No. 495,002
7 Claims. (Cl. 91—70.2)

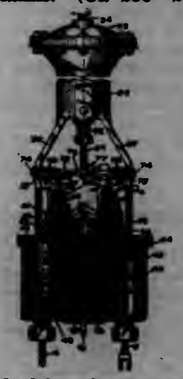
1. In a method of tinning continuous steel strips which includes the steps of drawing the strip through molten tin and between a pair of pinch rolls, and intermittently reversing the direction of rotation of the rolls.

1,920,440

FLUID FUEL CONTROLLER

Carlton D. Stewart, Berkeley, Calif., assignor to Associated Engineering and Supply Company, San Francisco, Calif., a Corporation of California

Application July 28, 1931. Serial No. 553,500
7 Claims. (Cl. 236—26)



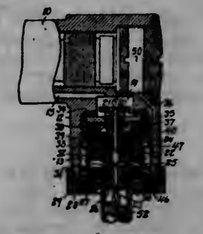
5. In a fluid fuel burning apparatus, the combination with means for controlling the supply of fluid fuel including a piston operable by variations in fluid pressure, of a relay valve means for controlling the supply and release of fluid under pressure to and from said piston and operable to cut off the exhaust of fluid from said piston upon operation to supply fluid under pressure thereto, and pilot valve means for controlling the operation of said relay valve means.

1,920,441

SELF-CLOSING OUTLET-FITTING FOR AIR-GAUGES

Paul C. Swole, Clinton, Conn.

Application February 1, 1932. Serial No. 590,101
3 Claims. (Cl. 284—17)



1. A self-closing outlet-fitting for air-gauges, comprising a tubular neck, a bushing-cap having threaded engagement with said neck, a valve-seat in said bushing-cup, a packing-cup threaded into said bushing-cup, a compressible packing in said packing-cup, a valve-plunger formed with a head to engage the valve-seat and having a bearing on the inner end of said packing, a valve-extension connected with said plunger and formed with a shoulder bearing on the outer end of said packing, and an axial passage through said stem and extension into said head, and a radial passage intersecting the said axial passage within said head.

1,920,442

PURIFICATION OF SOLUTIONS OF ZINC SALTS

Urlyn C. Tainton, St. Louis, Mo.

No Drawing. Application June 30, 1930
Serial No. 465,071
7 Claims. (Cl. 23—125)

1. The method of purifying solutions of zinc salts from elements electro-negative to zinc such as cadmium, cobalt, and germanium, which consists in bringing the solution into intimate contact with metallic zinc in the presence of tellurium supplied to the solution to further the precipitation of such elements as cadmium, cobalt and germanium.

1,920,443

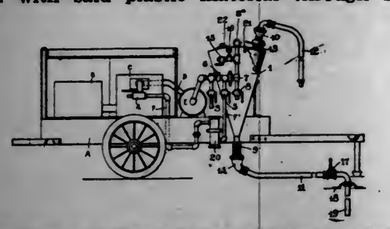
MACHINE FOR PLACING PLASTIC MATERIALS

Charles G. Milburn, Upper Arlington, Ohio

Application February 6, 1933. Serial No. 655,537
2 Claims. (Cl. 103—235)

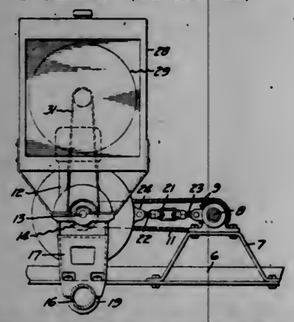
1. In portable means for placing a plastic of high specific gravity, an air pump adapted to be converted from a suction to a force pump, a closed tank of cone form inverted and having at its top an intake opening, a manually operable cut-off valve for closing the same and an intake flexible hose communicating with the tank through said opening, said tank having at its bottom or apex end a discharge opening provided with a manually operable cut-off valve and

a flexible discharge hose, and means connecting the top of said tank with said convertible suction and force pump whereby in operation a vacuum may be created in the tank to charge the tank with said plastic material through said



upper hose and then after suitable manipulation of said valves create pneumatic pressure in the tank to discharge the plastic material through said lower hose under pressure to the point of application of said plastic material.

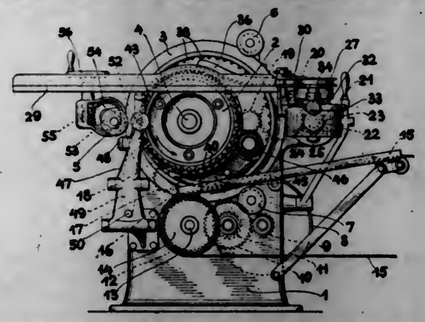
1,920,444
ENGINE MOUNTING
Lowell H. Thoen, Stockton, Calif., assignor, by mesne assignments, to Caterpillar Tractor Co., San Leandro, Calif., a Corporation of California
Application October 10, 1927. Serial No. 225,109
4 Claims. (Cl. 308—11)



1. An engine mounting comprising a horizontal supporting shaft, an engine, a plurality of spaced upright brackets secured to said engine and pivoted on said shaft, said brackets serving to reenforce the engine structure and holding the engine in balanced position with the center of gravity of the engine approximately vertically above the axis of said shaft, means for rigidly holding said engine in balanced position, and a driving connection to said engine.

1,920,445
MACHINE FOR STAMPING SOFT KNEADABLE MASSES INTO BON-BONS AND THE LIKE
Hermann Thürlings, Viersen, Germany
Application July 26, 1932. Serial No. 624,716
5 Claims. (Cl. 107—15)

1. A machine for stamping soft kneadable masses into bon-bons and the like comprising a rotatable wheel, mould-halves carried on the periphery of said wheel, an annular member, means supporting said annular member for free rotation, mould-halves carried on the internal periphery of the annular member and adapted to co-operate with the mould-halves carried on the wheel, said wheel being eccentrically disposed relatively to the annular member so that the co-operating mould-halves contact at a definite point and are separated by a space at other points, means for rotating the wheel and means



for feeding a soft mass in a path extending in opposed directions to the space between the separated mould-halves.

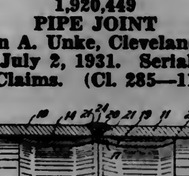
1,920,446
OIL BURNER
William Tryon, Lima, Peru
Application July 31, 1931. Serial No. 554,330
4 Claims. (Cl. 158—92)



1. A burner including a base having a hollow, centrally positioned, upstanding member with a chamfered upper surface, a disk-shaped valve member having a chamfered edge coacting with said chamfered upper surface to provide a narrow air slit, said base having an annular shoulder and said valve having depending means resting on said shoulder for spacing the valve member from said chamfered face, a casing coacting with said base, said casing having a plurality of slits for the admission of air and means for supplying oil to the upper surface of said base.

1,920,447
VEHICLE WINDSHIELD WIPER, THE LIKE NORMALLY USED ON MOTOR CARS AND OTHER PROPELLED CARRIAGES
Ernest Clayton Tilly, Ilford, England
Application August 24, 1932, Serial No. 630,311, and in Great Britain July 17, 1931
3 Claims. (Cl. 121—97)

3. A windshield wiper, comprising a casing having a pair of semi-circular sections secured together, a partition clamped between the sections to divide the casing into separate compartments, an oscillating vane housed in one of the compartments, a sleeve attached to the vane and disposed within the casing, said sleeve having a first and second set of ports opening at opposite sides of the vane and a port diametrically opposite said sets of ports, a concentric sleeve valve disposed in the sleeve, said sleeve valve having port openings at opposite sides to cooperate

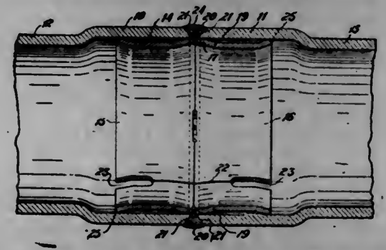


with the first set of ports in the sleeve and opposed ports to cooperate with the second set and the diametrically opposed ports of the sleeve, said sleeve valve structure ports opening into the respective compartments of the casing, and actuating means disposed in the other compartment of the casing for the valve structure to control the oscillation of the vane.

1,920,448
MOLD FOR MATRIX SETTING AND TYPE-LINE CASTING MACHINES
Eduard Uhthoff, Berlin-Charlottenburg, Germany, assignor to Typograph G. m. b. H., Berlin, Germany
Application June 14, 1932, Serial No. 617,178, and in Germany August 11, 1931
6 Claims. (Cl. 199—55)

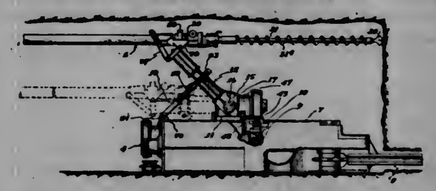
1. A casting mold for matrix-composing and line-casting machines including a pair of lateral cheeks spaced apart at their ends so as to leave a casting slit, a distance stay inserted in the casting slit and firmly secured to one of the cheeks of the casting mold, the stay extending to about half the depth of the casting slit and being of a very narrow width of about 4.5 millimeters and also having a very slight taper of approximately $\frac{1}{10}$ millimeter on each side from the base to the middle of the line.

1,920,449
PIPE JOINT
Herman A. Unke, Cleveland, Ohio
Application July 2, 1931. Serial No. 548,303
5 Claims. (Cl. 285—111)



1. An aligning and coupling device for adjacent pipe ends comprising a split metal sleeve adapted to telescope into said pipe ends, said sleeve having oppositely tapered annular sections for wedging engagement with said pipe ends whereby the split wall of said sleeve is compressed to substantially closed tubular form, said sleeve also having a substantially cylindrical section intermediate said tapered sections for cooperation with said pipe ends after the latter have traversed said tapered sections.

1,920,450
MINING MACHINE
Frederick W. Vodoz, Wilmette, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois
Application September 10, 1930
Serial No. 480,885
5 Claims. (Cl. 262—9)



1. In combination with a mining machine, a motor, and drilling mechanism supported on said mining machine comprising a supporting arm having one end supported on said mining machine for pivotal movement about a transverse axis and having its opposite end extending towards the rearward end of said mining machine and having a drilling head supported on said opposite end for adjustable movement with respect thereto about an axis extending transversely of the longitudinal axis of said arm and extending towards the forward end of said mining machine, said drilling head having a drill thereon for drilling in the mine wall forwardly of said mining machine, and power transmission means carried within said supporting arm for operatively connecting said drilling head with said motor.

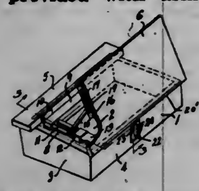
1,920,451
MANUFACTURE OF CONDENSATION PRODUCTS OF A UREA AND FORMALDEHYDE
Walter von Knilling, Mannheim, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, of Frankfort-on-the- Main, Germany, a Corporation of Germany
No Drawing. Application July 5, 1928, Serial No. 290,704, and in Germany July 16, 1927
10 Claims. (Cl. 260—3)

1. A process for producing condensation products of a urea and formaldehyde which comprises fusing a mixture of at least one urea substance, selected from the group consisting of urea and thiourea, a solid polymer of formaldehyde and an alkaline condensing agent in the absence of a liquid diluent and hardening the condensation product obtained by heating.

1,920,452
DESK
Robert E. Wagner, Lakewood, Ohio
Application April 22, 1932. Serial No. 606,830
7 Claims. (Cl. 45—91)

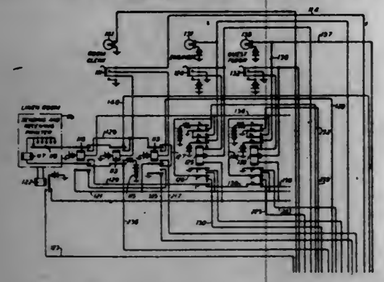
1. A desk of the character described, comprising a body provided with a top opening and a lid unit therefor, said lid unit comprising a frame pivoted to the body along one edge of said

opening and provided with arms, supporting



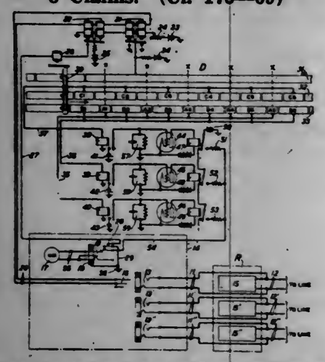
members slidable along said arms, and a lid hinged thereto.

1,920,453
TELEGRAPHIC INTERCOMMUNICATING SYSTEM
Edward F. Watson, Larchmont, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York
Application January 13, 1932. Serial No. 586,451
17 Claims. (Cl. 178—4.1)



1. In a telegraph system, a plurality of central offices, a plurality of outlying stations, normally opened line circuits interconnecting said offices and connecting certain of said offices with said stations, circuit closing devices at each of said central offices and certain of said outlying stations for closing the line circuits extending to certain other central offices and certain outlying stations either separately or simultaneously.

1,920,454
SIGNAL DISTORTION INDICATING DEVICE
Allan Weaver, Port Washington, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York
Application April 21, 1931. Serial No. 531,768
8 Claims. (Cl. 178—69)



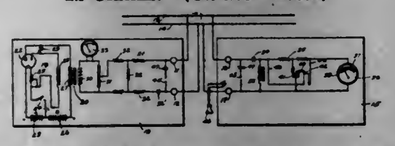
1. In an impulse transmission system, a transmission line, a device for indicating and measuring the distortion of received signal impulses which manifests itself in lengthening or shortening the duration of signal impulse, comprising a plurality of circuits, means responsive to every significant change in current in the impulses received over said line for selecting one of said selective circuits, and means responsive to the selected circuits to indicate the degree of distortion present in the impulses received over the transmission line.

1,920,455
BOX CAR CONSTRUCTION
George F. Zaun, San Bernardino, Calif.
Application May 23, 1931. Serial No. 539,506
3 Claims. (Cl. 105—375)



1. Improvements in racks for box cars and the like, comprising a pair of racks maintained in alignment, hinge means for securing the racks in working relation, one of said racks being provided with a housing, a link chain within said housing adapted to be extended therefrom, and a swing catch secured to the box car for engagement with said chain for securing the racks in substantial parallelism.

1,920,456
TRANSMISSION TESTING APPARATUS
Lee E. Adler, Dallas, Tex.
Application June 29, 1931. Serial No. 547,650
12 Claims. (Cl. 179—175.3)

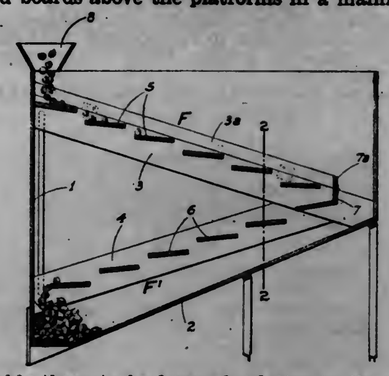


1. The method of measuring transmission efficiency of telephone lines and the like which consists in impressing an alternating current of a predetermined value through a pad multiplier corresponding to a number of transmission units in excess of the maximum transmission units gained by the line section under test to a point of the line from which measurements are to be made and simultaneously measuring the proportionate amount of said current received at another point of the line at the end of the section of line under test to indicate the difference between said pad multiplier and the transmission equivalents of the line circuit under test.

1,920,457
CONVEYER STAIRS
Frank D. Barling, Linden, Calif.
Application March 7, 1931. Serial No. 520,906
2 Claims. (Cl. 193—28)

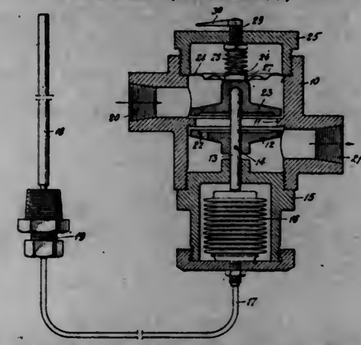
1. A conveyer structure including spaced side boards having a downward slope from one end to the other, and platforms extending between and supported by said boards in stepped relation from the upper to the lower ends thereof, the platforms being disposed on a slope in the same direction as but less than that of the boards and being disposed below the upper edges of the

side boards, and means mounting the portions of said boards above the platforms in a manner to



enable them to be lowered relative to the platforms.

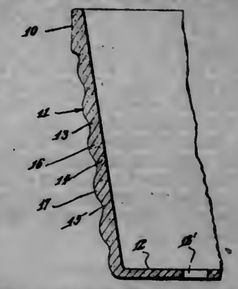
1,920,458
CONTROL VALVE
Frank J. Bast, Queens Village, N. Y., assignor to Charles J. Tagliabue Mfg. Co., Brooklyn, N. Y., a Corporation of New York
Application January 31, 1930. Serial No. 424,768
8 Claims. (Cl. 236—99)



1. A control valve for regulating the flow of a fluid in response to variations in temperature at a selected point, comprising a valve casing having a passageway therein, a valve seat in said casing, a valve stem, two valve elements positioned on said stem one on each side of said seat, an expansible member associated with said valve elements and operative in response to variations in temperature at said point to control said passageway through one of said elements, an opening through such element, whereby a fixed amount of fluid is fed when said element is in its closed position, and a spring operative upon collapse of said expansible member to force the other element against the valve seat to close said passageway completely.

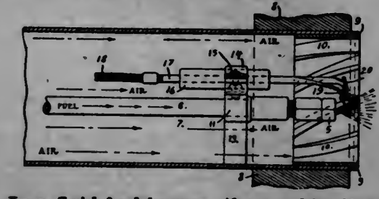
1,920,459
METHOD OF MAKING A CERAMIC CONTAINER
Watson E. Bockmon, Los Angeles, Calif.
Application July 31, 1931. Serial No. 554,209
2 Claims. (Cl. 25—156)

2. In a method of making ceramic containers and receptacles from plastic clay compositions, the steps of compressing the plastic material at vertically spaced substantially horizontal zones during the molding of walls of receptacles to form relatively dense wall portions spaced by relatively porous wall portions, said relatively



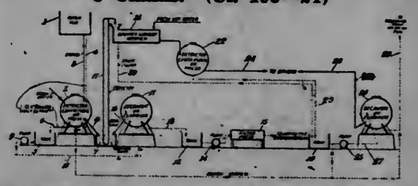
porous wall portions being subjected to lower pressure during said molding than said compressed portions, and then drying and burning the molded receptacles.

1,920,460
FLUID FUEL BURNER
Robert F. Bruns, Sarpy County, Nebr.
Application October 19, 1931. Serial No. 569,705
2 Claims. (Cl. 158—28)



1. In a fluid fuel burner, the combination with a fuel-nozzle adapted to deliver a jet of fuel, and a draft-tube surrounding said nozzle and adapted to direct an air-stream longitudinally past the same; of ignition-electrodes disposed adjacent to said nozzle and having wide terminal portions spaced apart longitudinally of the draft tube and extending transversely thereof, the forward of said transverse terminal portions having a face at the gap between the electrodes inclined to the draft-tube axis, and said inclined face being positioned to deflect a portion of the air-stream through the gap and toward the fuel-jet, for the purpose set forth.

1,920,461
MANUFACTURE OF MALT EXTRACT
Lee H. Clark, Ardmore, Pa., assignor to the Sharples Specialty Company, Philadelphia, Pa., a Corporation of Delaware
Application April 21, 1928. Serial No. 271,958
8 Claims. (Cl. 195—24)

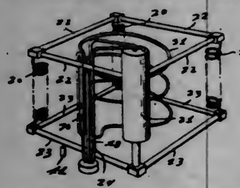


1. In the manufacture of malt extract, the steps comprising mashing the malt with water, mechanically removing residual solids from the resulting liquor, washing the removed solids with fresh quantities of water, removing the

wash water from the solids, and clarifying the wash water removed from the solids and returning it to the mashing operation.

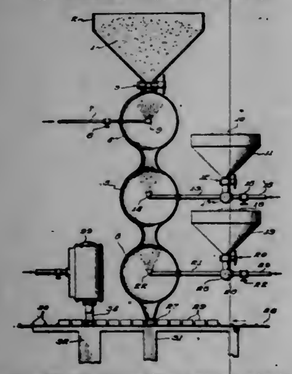
3. In apparatus for the manufacture of malt extract, a mash tun for heating malt with water, an extractor, means for conducting mash from said tun to said extractor, a clarifier, means for conducting clarified liquid from said second from said extractor, means for washing the solids, means for conducting solids from said extractor and said clarifier to said washing means, a second clarifier, means for conducting wash water from grains washed in said washing means to said second clarifier, and means for conducting clarified liquid from said second clarifier to said tun.

1,920,462
CARBONATED BEVERAGE REFRIGERATING APPARATUS
William E. Doughty, Detroit, Mich., assignor to James Vernor Company, Detroit, Mich., a Corporation of Michigan
Application July 27, 1931. Serial No. 553,448
7 Claims. (Cl. 62—126)



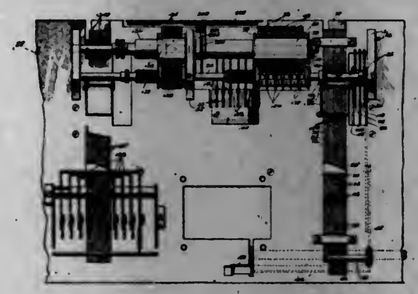
2. In a refrigerating apparatus of the class described, upper and lower headers encircling a space adapted to receive a container, an upright tank connected at its upper and lower ends respectively to said headers, an upright coil having its ends connected respectively to said upper and lower headers, and means for maintaining liquid refrigerant at a predetermined level in said tank, for the purpose set forth.

1,920,463
ARTIFICIAL STONE
Jay Calhoun Edwards, Chicago, Ill.
Application November 10, 1931. Serial No. 574,153
2 Claims. (Cl. 91—68)



1. The method of coating separated sand particles with a water film, spraying cementitious materials on said water film, and spraying finely divided filler over said moistened cementitious material.

1,920,464
CASH REGISTER
Frederick L. Fuller, Ilion, N. Y., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland
Application December 3, 1926. Serial No. 152,384
32 Claims. (Cl. 235—2)



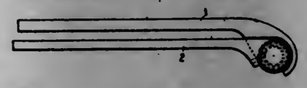
18. In a machine of the class described, a plurality of type carriers, a platen provided with a depression therein normally overlying said type carriers, and means for successively shifting said type carriers laterally to bring the same into operative relationship with the effective surface of said platen.

19. In an accounting machine, the combination of a series of keys, a group of elements, and means controlled by the keys for controlling a differential positioning of the group of elements and then moving all but one to normal, the movement to normal being in the same direction as the positioning movement.

1,920,465
REFINING FERROUS METALS
Herbert Harris, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York
No Drawing. Application October 5, 1931
Serial No. 567,129
13 Claims. (Cl. 75—27)

1. The process of purifying ferrous metal which comprises treating the molten metal with a reagent containing a fluoride of an alkali metal and an oxide of an alkaline earth metal.

1,920,466
HINGE
Howard B. Haskins, Highland Park, and John W. Lakin, Detroit, Mich., assignors to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan
Application June 17, 1931. Serial No. 545,036
7 Claims. (Cl. 16—128)



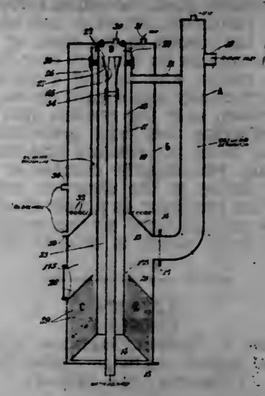
1. A hinge comprising in combination apertured male and female butts, a pin adapted to be received in the said apertures for interconnecting the said butts, distortable material positioned in one of said apertures, and a bushing split longitudinally thereof interposed between the distortable material and the said pin the said pin having a greater diameter than the bushing when closed.

1,920,467
PALETTE
Charles D. Jarrett, Chicago, Ill.
Application August 21, 1931. Serial No. 558,430
5 Claims. (Cl. 41—5)



5. In combination, a palette comprising a palette surface, means carried on said surface for receiving tubes of paint, means formed integral with but spaced above said palette surface defining an opening of small area, and conduit means extending between said tube receiving means and said opening and providing communication therebetween, said conduit means having a bore substantially larger in area than the area of said opening.

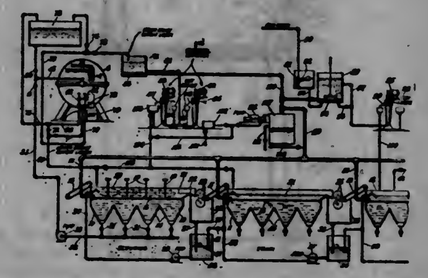
1,920,468
SEPARATION OF IMMISCIBLE LIQUIDS
Leo D. Jones, Philadelphia, Pa., assignor to The Sharples Specialty Company, Philadelphia, Pa., a Corporation of Delaware
Application May 23, 1928. Serial No. 279,918
10 Claims. (Cl. 183—3)



8. In a gravity separator for a mixture of immiscible liquids, a container having a mixture inlet, a conduit leading upwardly from a point in said container below said inlet for conducting one constituent of said mixture from said container, a nest of frustro-conical plates in said container and separated to provide settling passages of limited vertical dimension sufficiently large to permit the entry of an oil and water-mixture therebetween and allow settling thereof in said passages, said passages extending between said inlet and the point in said container from which said conduit leads, and weirs controlling the separate discharge of liquids from the separator.

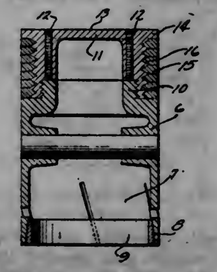
10. In a gravity separator for a mixture of immiscible liquids, a separating compartment, separate discharge passages for receiving separated constituents passing from said compartment and annular weirs controlling the level of liquids in said discharge passages in balance against each other, one of said annular weirs being arranged within the other in close lateral proximity thereto, and said weirs being confined within a relatively small area, one of said weirs being of tortuous configuration whereby to afford a relatively extensive periphery as compared with a corresponding cylindrical weir enclosing a similar area.

1,920,469
WOOL SCOURING
Leo D. Jones, Philadelphia, Pa., assignor to The Sharples Specialty Company, Philadelphia, Pa., a Corporation of Delaware
Application June 8, 1929. Serial No. 369,280
4 Claims. (Cl. 37—6)



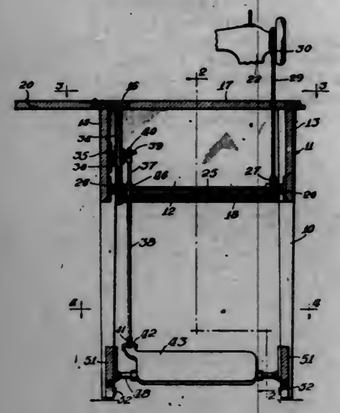
1. In apparatus for scouring wool, a series of scouring bowls adapted for the passage of wool successively therethrough, a wringer associated with each bowl and adapted to wring wool passing therefrom, a tank associated with each bowl and with the wringer associated therewith and adapted to collect scouring liquor removed from the wool thereby, a pipe leading to each tank from the tank associated with the next succeeding bowl and provided with a valve, a float in each tank for controlling said valve in said pipe leading thereto, and means for passing liquor to each of said bowls of said series from the tank associated therewith.

1,920,470
PISTON, PACKING, AND THE LIKE
Matthew G. Kurth, Madison, Wis.
Application July 8, 1931. Serial No. 549,358
7 Claims. (Cl. 309—30)



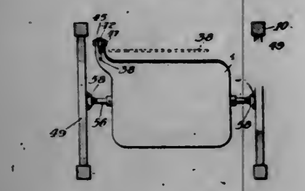
1. The combination with a member to be packed having a helical groove of V-shaped cross section, of a helical packing member having its internal periphery formed to correspond in cross section to said groove and operatively engaged therein, the walls of said groove being fixed and the sides of the convolutions of the packing member normally contacting.

1,920,471
SEWING MACHINE
Raymond F. List and Walter A. Smith, Belvidere, Ill., assignors to National Sewing Machine Company, Belvidere, Ill., a Corporation of Illinois
Application September 14, 1931
Serial No. 562,676
8 Claims. (Cl. 45—27)



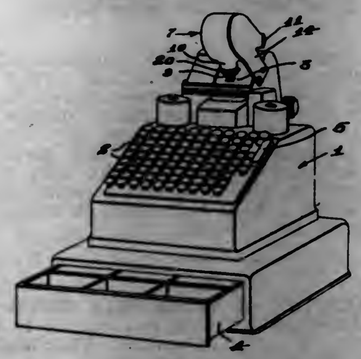
1. A treadle operated, drop head cabinet type sewing machine comprising a sewing head hinged to the cabinet, power-transmitting mechanism in the cabinet, supports for the cabinet, a treadle, means located externally of the cabinet for detachably connecting the treadle to the power-transmitting mechanism, and means for removably mounting the treadle relatively to the cabinet supports, whereby upon release of the detachable connecting means said treadle may be moved bodily relative to said supports by said connecting means.

1,920,472
SEWING MACHINE
Raymond F. List and Walter A. Smith, Belvidere, Ill., assignors to National Sewing Machine Company, Belvidere, Ill., a Corporation of Illinois
Application October 12, 1931. Serial No. 568,332
10 Claims. (Cl. 45—27)



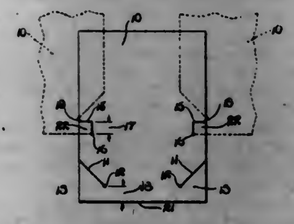
2. In a treadle operated sewing machine provided with a treadle and spaced apart supports for carrying the sewing mechanism, means for disengageably mounting the treadle in said supports, said means comprising a fixture secured to each of said supports and a fixture-engaging member mounted on each end of the treadle rod, the fixture being slotted downwardly from its top, and the fixture-engaging member having a lug formed at its upper end for entering said slot.

1,920,473
PERISCOPE ATTACHMENT FOR CASH REGISTERS
Alfred D. Maury, Ilion, and John A. Fitz Gerald, Utica, N. Y., assignors, by direct and mesne assignments, of one-third to Theodore W. Schmidt, Ilion, N. Y., one-sixth to Charles E. Maurice, Mohawk, N. Y., one-third to said John A. Fitz Gerald, and one-sixth to said Alfred D. Maury
Application October 5, 1931. Serial No. 566,848
3 Claims. (Cl. 88—24)



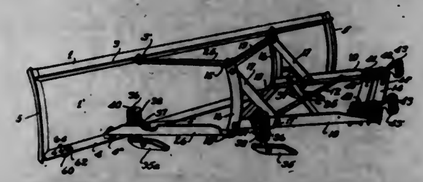
1. The combination, with a cash register including a suitable case, recording ribbon mechanism, key operated printing mechanism for printing on the ribbon in the case; of a unitary projector mountable on the case over the reading line of the ribbon and having a sight opening directed horizontally and a light entrance spaced from the ribbon over the reading line and mirrors for reflecting the light projected through the entrance from the reading line through the sight opening, whereby the number at the reading line is visible to the observer, and a lamp carried by the projector as a unit therewith and arranged to project light on the reading line of the ribbon from which it reflects through the projector.

1,920,474
SHINGLE
Adam F. Martin, Saginaw, Mich.
Application August 5, 1931. Serial No. 555,157
7 Claims. (Cl. 108—7)



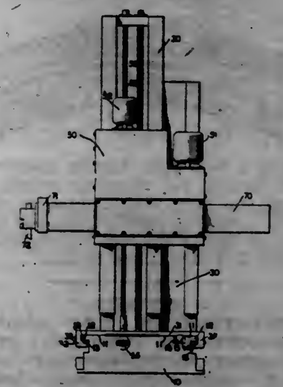
3. In combination, a shingle consisting of a flat sheet of material of substantially rectangular shape, said piece of material having diagonal slits extending from opposite sides thereof towards one end thereof, and L-shaped slits extending inwardly and downwardly from the said sides.

1,920,475
TRACK CLEARING IMPLEMENT
Edward B. Meyer, Cleveland, Ohio
Application July 13, 1931. Serial No. 550,431
14 Claims. (Cl. 37—42)



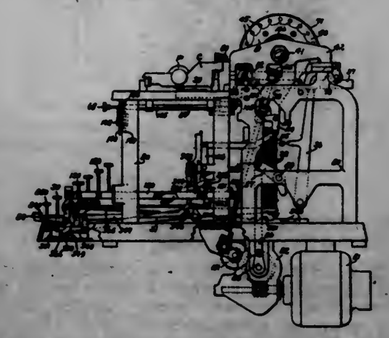
1. In an impelment of the class described, a moldboard blade adapted to operate either broadside or at an acute angle to the direction of movement of the blade, a frame having blade engaging surfaces at its front end arranged to engage the blade at materially spaced elevations and spaced apart horizontally material distances and adapted to operatively engage the blade simultaneously for shoving the same during such broadside operation, a hinge connection adjacent one of said surfaces between the frame and blade, and means for rigidly securing the blade to the frame while swung about said hinge connection in the acute angle operating position aforesaid.

1,920,476
TRAVERSING SUPPORT FOR METAL WORKING MACHINES
Henry E. Morton, Muskegon Heights, Mich.
Application April 13, 1931. Serial No. 529,580
7 Claims. (Cl. 90—38)



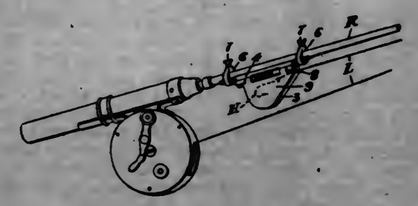
1. In a device of the class described, a member having ways thereon, a second member slidably mounted upon said ways, gibs located on the second member in parallelism to the direction of movement of the two members, said first member having surfaces at right angles to the surface of contact between the two slidably mounted members, said surfaces adapted to be engaged by the said gibs, said first member having another set of surfaces parallel to the direction of movement of the two members and at right angles to the previously mentioned surfaces on the first member, gibs on the second member adapted to slidably engage the last mentioned set of surfaces, said last mentioned surfaces with their contacting gibs being spaced farther apart laterally than the other two gibs and their respective surfaces.

1,920,477
MULTIPLE REGISTER CALCULATING MACHINE
Robert L. Muller, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan
Application October 2, 1930. Serial No. 485,890
42 Claims. (Cl. 235—60)



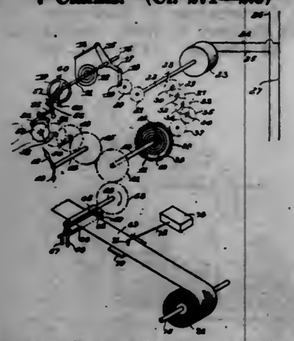
1. A calculating machine having actuator racks, a transfer mechanism, a register magazine, a plurality of registers in said magazine, each of said registers comprising a plurality of rotatable pinions, means for indexing said magazine to selectively bring the registers to indexed position, register moving means for completely removing the indexed register from said magazine and moving it to active position for cooperation with said actuator racks and said transfer mechanism to enable a calculating operation to be performed in said register, said register moving means including portions acting to automatically move said register out of active position with respect to said racks and transfer mechanism after a calculating operation has been completed.

1,920,478
HOOK AND BAIT HOLDER
Fred E. Norton, Kennebunk, Me.
Application April 11, 1932. Serial No. 604,567
4 Claims. (Cl. 43—33)



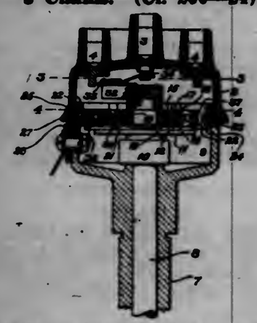
1. A protective holder for a baited fish hook or like angling lure attached to a line, comprising a flat casing open on one face and having one straight side wall and an opposite continuously curved side wall defining its enclosure, a rod bearing along the straight side wall, means for clamping said bearing to a rod, a cover hinged to the straight side of the casing, a spiral spring protectively disposed in the cover hinge and normally closing said cover, said curved side wall meeting said straight side wall in a forward taper and having a line receiving notch at the juncture therewith and closed to said cover.

1,920,479
RECORDING METER
Arthur F. Poole, Ithaca, N. Y.
Application July 21, 1931. Serial No. 552,183
7 Claims. (Cl. 271—2.3)



1. In a recording meter the combination of a source of regulated current, a synchronous motor connected thereto, paper feeding means, spring actuated mechanism to drive the same and means controlled by said motor to govern the speed of said driving means.

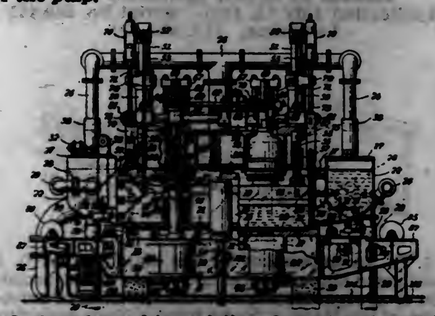
1,920,480
DISTRIBUTOR HEAD
Frederick C. Selleck, Cold Spring, N. Y.
Application March 16, 1931. Serial No. 522,971
3 Claims. (Cl. 200—24)



1. A distributor head for high tension ignition systems including in combination a shaft, a casing divided into a shaft supporting member and an insulating cap member, an insulating ring within the casing, a conductor ring adapted to be driven in an orbital path within the insulating ring, a continuous conductor associated with the insulating ring and exposed at intervals along the path of contact between the conductor ring and insulator ring, and means associated with the shaft for driving the conductor ring.

1,920,481
MANUFACTURE OF FIBER SHEETS AND APPARATUS THEREFOR
Daniel Manson Sutherland, Jr., Morrisville, Lower Makefield Township, Bucks County, Pa.
Application April 8, 1931. Serial No. 528,478
7 Claims. (Cl. 92—61)

1. A method of charging with aqueous pulp a horizontal mold for forming pulp sheets by pressing and drawing off the water from the pulp in the mold; which method comprises admitting the pulp into the mold at opposite edges and concurrently allowing the air in the mold to escape from its mid region, separately from the water of the pulp.



3. A wet machine of the character described for forming pulp sheets, comprising a horizontal mold with relatively movable top and bottom walls, means for introducing aqueous pulp into the mold at opposite edges and for venting air from between the inflowing pulp streams, while preventing escape of water from the pulp until after the mold is fully charged, and means for thereafter drawing away the water from the pulp in the mold.

1,920,482
BELT
Harry A. Toulmin, Jr., Dayton, Ohio, assignor to the Dayton Rubber Manufacturing Company, Dayton, Ohio, a Corporation of Ohio
Application September 29, 1931
Serial No. 565,834
1 Claim. (Cl. 74—63)



In a belt, a belt body having means arranged centrally thereof for resisting longitudinal extension of the belt, and means on either side thereof for resisting longitudinal compression of the belt, and highly resilient inserts between sections of the last mentioned means.

1,920,483
PRESERVATION OF THE AROMA OF TOBACCO AND TOBACCO GOODS
Georg Senftner, Berlin, Germany, assignor to Werkhof Gesellschaft mit beschrankter Haftung, Bremen, Germany
No Drawing. Application November 2, 1929, Serial No. 404,515, and in Germany November 9, 1928
1 Claim. (Cl. 131—11)

Envelope for tobacco products comprising porous cellulosic material and a sterine distributed in the pores of said material.

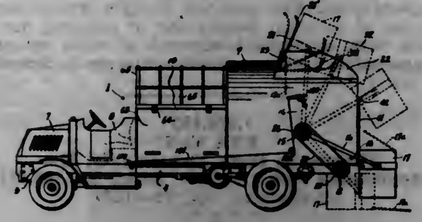
1,920,484
ROTARY PUMP
Otto Siemen and Johannes Hinsch, Itzehoe, Germany
Application May 7, 1930, Serial No. 450,516, and in Italy May 27, 1929
5 Claims. (Cl. 103—96)

1. A rotary pump comprising a vaned rotor, and an enclosing casing forming a neat fit with said rotor, the side walls of said casing being formed with segmental channels carried about the axis of rotation of the rotor so as to be swept by the tips of the vanes and forming nearly a complete circle, the channels being open towards the wheel and gradually reduced in depth to nothing at the ends, the casing having an induction port



arranged so as to be swept by the root portions of the vanes where the latter move in an upward direction and in the neighbourhood of one end of said channels, and an exhaust port arranged so as to be swept by the root portions of the vanes beneath the axis of rotation and in the neighbourhood of the other end of the channels.

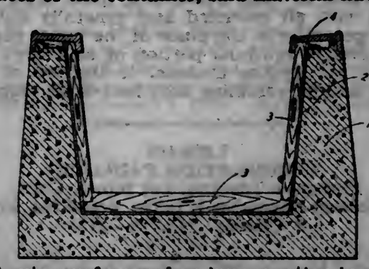
1,920,485
VEHICLE FOR COLLECTION AND HAULING OF GARBAGE
Jesse W. Silver, Tacoma, Wash., assignor to Sanitary Garbage Body Mfg. Co., a Corporation of Washington
Application May 27, 1929. Serial No. 366,280
3 Claims. (Cl. 214—67)



1. In a vehicle of the character described, a storage tank having a top opening, a supporting shaft about which the tank may pivot for rear end dumping, a cover normally covering the tank opening and hingedly attached to the tank at the forward edge of the opening to swing upwardly and forwardly to open position and having an upwardly curved flange at its opening edge, a stop fixed to the tank adjacent the rearward edge of the opening, a bucket support, pivotally attached to opposite sides of the tank, a bucket suspended from the support, means operable through the tank supporting shaft for actuating the support to carry the bucket from loading position to a position for engaging said cover flange to move the latter to open position and for subsequently causing the bucket to engage said stop so that a farther movement of the support causes the bucket to be inverted to discharge its contents into the tank through said top opening.

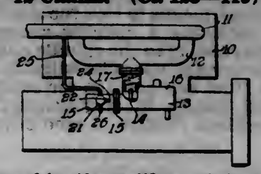
1,920,486
PICKLING VAT AND COATING THEREFOR
William E. Smith, Lakewood, Ohio
Application November 29, 1929. Serial No. 410,424
5 Claims. (Cl. 217—3)

4. A container, and a lining of acid and alkali resistant material intimately applied to the inner surfaces of the container, said material having a



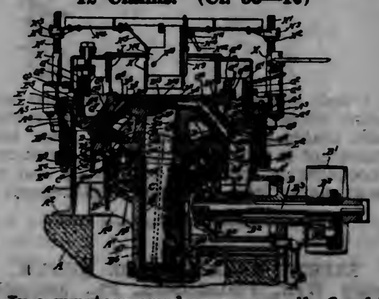
hard outer surface and an inner portion in a substantially plastic condition.

1,920,487
AUTOMATIC FUEL REGULATOR FOR INTERNAL COMBUSTION ENGINES
Charles L. Stokes, Los Angeles, Calif., assignor, by mesne assignments, to Lynn A. Williams, Evanston, Ill., and Clifford C. Bradbury, Glencoe, Ill., Trustees
Application May 19, 1927. Serial No. 192,581
12 Claims. (Cl. 123—119)



1. The combination with an internal combustion engine having an exhaust passage, of a carburetor having an air entry, a valve spindle in the air entry, a valve mounted on the spindle, a thermoresponsive element adapted to control said valve, a spring on one end of the spindle and a conduit leading from the exhaust passage to said thermo-responsive element.

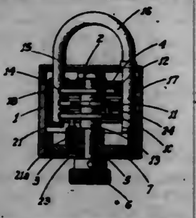
1,920,488
GYRATORY CONE CRUSHER
Edgar B. Symons, Hollywood, Calif., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin
Application October 20, 1930. Serial No. 489,734
12 Claims. (Cl. 83—10)



1. In a gyratory crusher, a normally fixed bowl, a crushing portion therefor, an upwardly conic crushing head, and a stationary bearing beneath the head adapted to form the support for the head, means for moving the crusher head on the bearing, the bearing being spherically concaved from a center above the top of the crusher head to cause the movements of the crusher head to resemble the movements it would have if pivotally

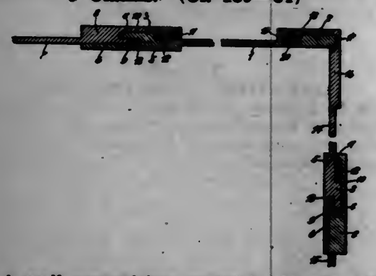
suspended at such point, said head being provided with an extended and generally flat top lying generally in the plane of the upper edge of the effective crushing portion of said bowl, and means for feeding material to the top of said head, and for confining such feed to said top.

1,920,489
COMBINATION PADLOCK
Francisco Toscano, Los Banos, Calif.
Application November 1, 1932. Serial No. 640,605
3 Claims. (Cl. 70—113)



3. A padlock comprising a body, a shackle having opposite legs slidable in the body, a spindle turnable in the body and operable from exteriorally of the same, means to lock the shackle against movement including a member concentric with and turnable relative to the spindle and selectively adjustable means operable without disturbing the shackle from any position for connecting the member and spindle in driving relationship in different positions relative to each other.

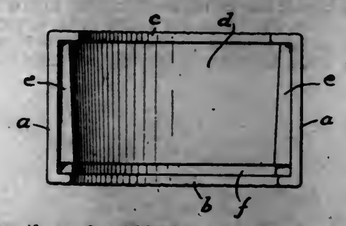
1,920,490
WALL CONSTRUCTION
Michael J. Tracy, St. Louis County, Mo., assignor to Pauly Jail Building Company, St. Louis, Mo., a Corporation of Missouri
Application November 19, 1931. Serial No. 576,056
8 Claims. (Cl. 189—34)



1. A wall comprising upright edgewise alined adjacent metallic plates, interlocking extensions on said plates holding said plates from lateral displacement in either direction, and a locking device cooperating with said extensions and holding said plates from edgewise displacement.

1,920,491
SAFETY RAZOR BLADE HONER
Clarence Wolf, Philadelphia, Pa., assignor to Wolf Edger Company, Philadelphia, Pa., a Corporation of Delaware
Application September 24, 1930
Serial No. 484,007
2 Claims. (Cl. 51—211)

1. A sharpener for flexible razor blades comprising a body having a sharpening surface in the form of a concave cylindrical segment, a flange along each end thereof, a ledge along each edge thereof, said ledges lying in a plane, and flanges extending above the ledges and having their upper ends below planes tangent to the surface at



the edges thereof, said last named flanges meeting the end flanges thereby forming a wall completely surrounding the body, said body also having a narrow shallow groove along one end flange.

1,920,492
THERAPEUTIC SILICA COMPOUNDS AND METHOD OF MAKING THE SAME
Rudolf Zellmann, Radebeul near Dresden, Germany, assignor to Chemische Fabrik von Heyden, A. G., Radebeul near Dresden, Germany, a Corporation of Germany
No Drawing. Continuation of application Serial No. 327,197, December 19, 1928, and in Germany February 18, 1925. This application December 19, 1928. Serial No. 327,196
6 Claims. (Cl. 167—72)

1. The method of preparing solid therapeutically effective compounds, said method comprising mixing an aqueous solution of a colloidal inorganic substance selected from a group consisting of colloidal metals and of colloidal metal salts with an aqueous solution of silica sol and evaporating the homogeneous mixture to dryness.

1,920,493
EYE NUT
Thomas B. Rash, Kansas City, Mo.
Application July 27, 1928. Serial No. 295,794
2 Claims. (Cl. 24—123)



2. In an anchor eye element adapted for threaded engagement with an anchor rod, means forming a pair of cable seats, extending through the body of said element, each seat being of arcuate section, directed toward the end of said element opposite the rod-engaging portion, and adapted to engage a substantial area of a dead-ended cable, said cable seats being disposed substantially at a right angle to each other, and extending across the element; means adjacent each of said seats, adapted to serve as a spacer between each cable and its dead end, means forming a transverse partition between said cable seats, and an annular projection on the body of said element adapted to coact with the anchor rod, to position an anchor wrench.

1,920,494
MANUFACTURE OF COUMARIN
Edgar C. Britton and William Robert Reed, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan
No Drawing. Application December 10, 1928
Serial No. 325,120
9 Claims. (Cl. 260—54)

1. In a method of making coumarin, the step which consists in reacting an ester of dichlor-ortho-cresol with an anhydrous acetate of an alkali-forming metal in the presence of a catalyst selected from the group consisting of the anhydrous chlorides of the metals aluminum, iron and cobalt.

4. The method of making coumarin which comprises reacting an ester of dichlor-ortho-cresol with an anhydrous acetate of an alkali-forming metal, acetic anhydride and salicylaldehyde being included with the reacting ingredients, whereby the formation of such two last-named compounds from the primary reacting materials is repressed.

1,920,495
METHOD OF MAKING WOVEN WIRE SCREEN
Hugh E. Brown, Cleveland Heights, and John Boehm, University Heights, Ohio, assignors to The W. S. Tyler Company, Cleveland, Ohio, a Corporation of Ohio
Application June 27, 1931. Serial No. 547,356
7 Claims. (Cl. 140—7)



1. In a method of making a woven wire screen, the steps which consist in pre-crimping a series of warp wires, subjecting the same to heat treatment and then weaving the same with a series of weft wires into a screen.

1,920,496
INSULATING OR WALL BOARD PRODUCT
Carroll E. Carpenter, Western Springs, Ill., assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois
No Drawing. Application August 23, 1928
Serial No. 301,701
3 Claims. (Cl. 92—3)

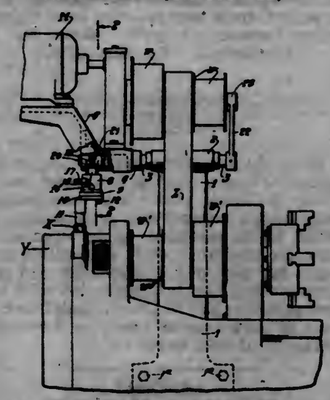
1. A fibre board of substantial thickness, high insulating value and cellular structure, comprising a mixture of relatively short, hard wood fibres from the group of woods:—oak, gum, tupelo, hackberry, magnolia, elm, maple, birch, beech, and relatively long, soft wood fibres from the group of woods:—cypress, cottonwood, willow.

1,920,497
BUTTON AND ITS MANUFACTURE
John M. Clark, Detroit, Mich, and Ira D. Ford, Roseland, Ontario, Canada, assignors to Universal Button Fastening and Button Company, Detroit, Mich., a Corporation of Michigan
Application November 7, 1930. Serial No. 494,160
8 Claims. (Cl. 79—3)



1. A method of making steel buttons which is characterized by placing an elongated steel blank in a die-recess, with a slight clearance between the blank and said recess; initially forming, at least partially, a fastener-receiving cup in one extremity of the blank which is located within said die-recess; projecting the opposite extremity of the blank beyond the restraint of said die-recess and upsetting said projecting portion to form partially a button head; successively projecting additional increments of the blank beyond the restraint of said die-recess and performing further heading operations upon said successive increments; inserting in the fastener-receiving cup of the button a diametrically disposed bar, and shouldering the button shank to hold said bar in place; and completing said fastener-receiving cup and rabbeting said serrating marginal parts of the underface of the button head, during the progress of heading operations.

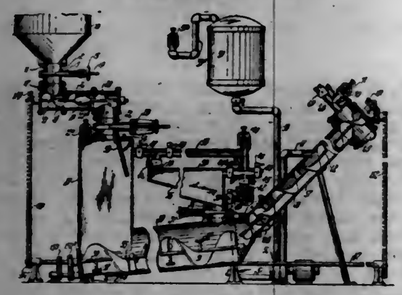
1,920,498
MEANS FOR MOUNTING ELECTRICALLY ACTUATED MECHANISMS FOR DRIVING LATHES AND OTHER MACHINES
Otto Cullman, Chicago, Ill.
Application October 27, 1930. Serial No. 491,631
12 Claims. (Cl. 308—11)



1. A rigidly mounted standard, a bearing on said standard, a bar horizontally supported in said bearing, and a table, one side of said table rigidly mounted on said bar, in combination with a member loosely mounted on said bar, an additional member secured on the under side of said loosely mounted member, and an adjustable foot thereon, a standard on said loosely mounted member, a longitudinally movable member in said last named standard, means to limit the longitudinal movement of said movable member, adjustable belt tautening means on said longitudinally movable member interposed between it

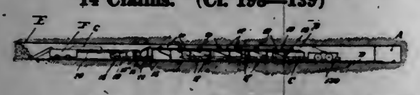
and said table, to support one side of said table, and a spring member interposed between said loosely mounted member and said table.

1,920,499
APPARATUS FOR CONTINUOUS SOLVENT EXTRACTION AND METHOD THEREOF
Walter E. Flumerfelt, Dallas Center, Iowa
Application February 4, 1931. Serial No. 513,368
7 Claims. (Cl. 87—6)



1. In a solvent extraction apparatus, an extraction chamber, means for conveying material therethrough in one direction and means for causing solvent flow therethrough in an opposite direction, a conveyor for removing material from the discharge end of the extraction chamber, means for causing solvent flow in said conveyor in the direction of movement of material therein, means for withdrawing solvent from the conveyor at a height above the extraction chamber, and means for squeezing solvent from the material in the conveyor above the point of solvent removal therefrom.

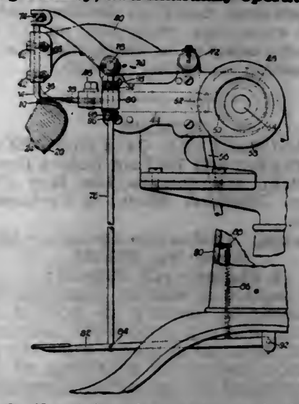
1,920,500
CONVEYER APPARATUS FOR LOADING CARS
John A. Garcia and Samuel M. Cassidy, Chicago, Ill.; said Garcia assignor to said Cassidy
Application January 18, 1932. Serial No. 587,252
14 Claims. (Cl. 198—139)



1. A portable conveyer apparatus for loading cars comprising an endless belt and means for supporting the same above and longitudinally of a railway track comprising a plurality of belt supporting units adapted to be connected one with another provided with retractible supporting means for movably supporting said units on said railway track and provided also with legs disposed on opposite sides of the railway track whereby a train of cars may be positioned beneath and longitudinally of said belt.

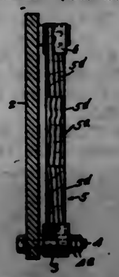
1,920,501
TRIMMING MACHINE
George Geddu, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application January 24, 1931. Serial No. 510,915
2 Claims. (Cl. 12—82)

1. A trimming machine comprising a trimming gage the work-engaging portion of which is formed and arranged to bear in a channel in the bottom surface of the insole of a lasted shoe, cutting means arranged to sever a lip or flange of material projecting from said channel with a cut that may be flush with the bottom surface of the insole, the entire work-engaging portion of the gage being arranged at the feeding-in side of the trimming locality, and manually operative means



by which the trimming gage and the cutting means may be relatively shifted while in operation to alter the closeness of the trimming cut.

1,920,502
HYGROSTATIC CONTROL
Worth C. Goss, Seattle, Wash., assignor to Humidity Control Company, Seattle, Wash., a Corporation of Washington
Application November 6, 1930. Serial No. 493,804
5 Claims. (Cl. 297—1)



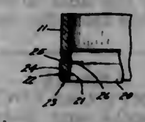
5. A humidity sensitive element comprising two flat strips of material joined face to face throughout the length of the element; the first of said strips being relatively non-hygroscopic and flexible and the second strip being a wooden hygroscopic strip with the direction of grain perpendicular to the face of the first strip.

1,920,503
STRUCTURAL GLASS FOR COVERING WALLS AND CEILINGS
Willis D. Hadley, St. Louis, Mo.
Application December 2, 1931. Serial No. 578,499
3 Claims. (Cl. 72—18)



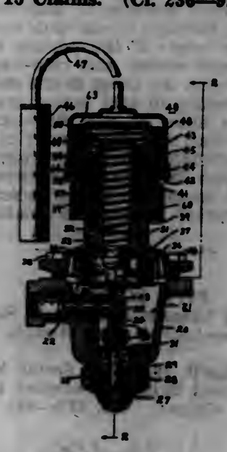
1. Structural glass of the character described comprising a plate of glass having a smooth outer surface, inclined rough cut walls to define spaces in said surface and rough cut walls at the outer edges of said plate, said walls serving as a bonding surface for pointing material.

1,920,504
CONTAINER
John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey
Application October 31, 1929. Serial No. 403,705
3 Claims. (Cl. 229—5.5)



2. A container, having a tubular fibre body and metallic ends, each of said ends being formed integrally with an annular channel embracing an end of the said body and in direct tight contact with the outside surface of the body and also with the inside surface of the body, and having a curled peripheral edge embedded in the outer wall of the body and an annular offset shoulder tightly fitting the inner wall of the body and cooperating with said curled edge whereby said end is securely held on said body.

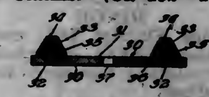
1,920,505
REFRIGERATING APPARATUS
Charles F. Henney and Daniel L. Kaufman, Dayton, Ohio, assignors to Frigidaire Corporation, Dayton, Ohio, a Corporation of Delaware
Application February 28, 1931. Serial No. 519,109
13 Claims. (Cl. 236—92)



4. An expansion valve including a valve chamber, inlet and outlet means for said valve chamber, a valve for controlling the inlet means, a member extending from said valve chamber, thermostatic means for controlling the operation of said valve including a cap member having a bellows therein sealed to the cap at its lower edges, said cap member being slidably mounted upon said first mentioned member, means operatively connecting said bellows and said valve, and means for sliding said cap member upon said first mentioned member to adjust said thermostatic means.

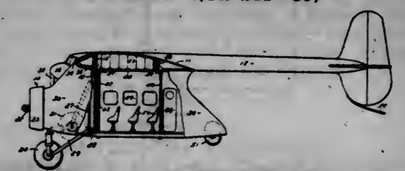
7. A sealed clamping means including a pair of members having enclosed cooperating clamping shoulders and cooperating threaded portions and means for conducting molten solder adjacent said clamping shoulders.

1,920,506
TRACTION DEVICE
Otho F. Hipkins, Port Deposit, Md.
Application November 17, 1930
Serial No. 496,141
2 Claims. (Cl. 152—14)



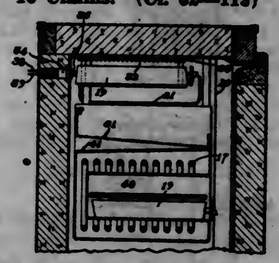
1. A traction shoe for a vehicle wheel comprising a base member provided with grooves, rubber traction blocks mounted in said grooves, and wear caps embracing the tops and sides of said blocks, the sides of each cap having flanges extending inwardly into the body of the corresponding block substantially parallel to the face of said member to leave a cushion layer between the cap and base member.

1,920,507
AIRPLANE CONSTRUCTION
Halbert H. Holloway, Los Angeles, Calif.
Application June 2, 1932. Serial No. 614,885
5 Claims. (Cl. 244—30)



1. Airplane construction comprising; a flying structure; a power unit normally connected to said structure at three spaced points only, and quickly detachable from all portions thereof; a quickly detachable cabin nacelle not enclosed by other structure, and that is normally connected to the flying structure independently of the power unit, immediately at the rear thereof; and means within the control of an operator for instantly releasing the nacelle from said structure in any flying position.

1,920,508
REFRIGERATING APPARATUS
Harry B. Hull, Dayton, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a Corporation of Delaware
Application February 29, 1928. Serial No. 258,004
16 Claims. (Cl. 62—113)



1. A refrigerator comprising a cabinet, a refrigerating element adapted to cool said cabinet, a tray adapted to contain a substance to be congealed by said refrigerating element, a controllable heat exchange means within said cabinet for heating the congealed substance, means for supporting said tray in heat exchange relation with said first means for releasing the congealed sub-

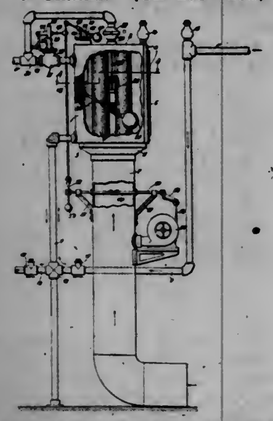
stance and means in heat exchange relation with the refrigerating element for receiving and storing the released substance.

1,920,509
HINGE
Arthur E. Jones, Elkhart, Ind., and Harvey H. Lewis, Atchison, Kans., assignors to Henry Weis Manufacturing Company, Inc., a Corporation of Indiana
Application July 28, 1928. Serial No. 295,954
25 Claims. (Cl. 16—154)



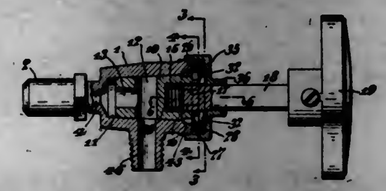
1. A hinge comprising a casing, said casing being provided with a concaved supporting bottom portion, a cup-shaped member convexed to lie on said portion, the cup-shaped member being provided with an inclined upper edge, a pintle rotatable with respect to said casing and cup-shaped member, and a roller carried by said pintle and riding on said upper edge of said cup-shaped member.

1,920,510
BOILER RETURN AND VACUUM TRAP
Stanley F. Knefel, Raymond Knefel, Clement Knefel, and Emmanuel Knefel, St. Louis, Mo.
Application October 10, 1932. Serial No. 636,998
8 Claims. (Cl. 103—252)



1. A device of the character described comprising a combined condenser and vacuum trap, a valve for admitting steam into said condenser and trap, vertical flues passing through the condenser and open at their top to atmosphere, a draft tube communicating with the flues at their bottom, a damper for opening and closing the tube, an actuator controlled by the temperature in said condenser and trap for opening and closing said valve and said damper, an inlet and outlet for pumped liquid, a float, and a steam inlet controlled by the float to provide pressure for forcing the liquid from the condenser.

1,920,511
SAFETY GAS COCK
Frederick W. Kulicke and Robert W. Butler, Philadelphia, and Clarence W. Moore, Roslyn, Pa., assignors to Mitchell Specialty Company, Philadelphia, Pa., a Corporation of Pennsylvania
Application February 26, 1931. Serial No. 518,378
10 Claims. (Cl. 251—165)



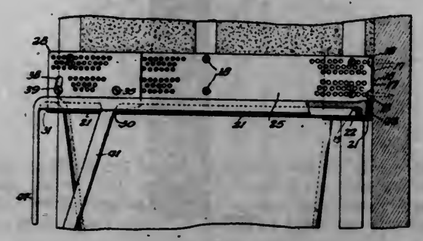
1. In a safety gas cock the combination of a casing having an opening therein the front end of which is enlarged, a rotatable valve plug located in said opening the front end of which projects into the enlarged portion of said opening, the said valve plug having a recess in its front end and notches in the edges of the portion of the plug surrounding said recess, and ring-like members mounted one upon the other in the enlarged portion of the opening in said casing, the inner diameter of the inner of said ring-like members being greater than that of the outer of said members, the inner member being provided with stop projections upon the inner edge thereof and the outer of said members having notches in the inner edge thereof in opposed relation to each other.

1,920,512
PIPE COUPLING
James Hunter Lamont, Edinburgh, Scotland, assignor of one-half to John Waugh, Edinburgh, Scotland
Application April 20, 1932, Serial No. 606,309, and in Great Britain December 19, 1931
9 Claims. (Cl. 285—86)



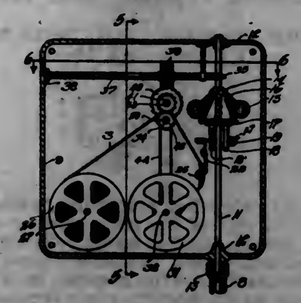
4. A pipe joint comprising, in combination, a substantially conical member adapted to enter the ends of two pipes to be joined, a correspondingly bored collar on one of said pipes, a split collet rearwardly of said collar, a coupling nut adapted to cause said split collet to grippingly engage said pipe, and means on said coupling nut adapted to coact with means associated with the other pipe for drawing the two pipes together, all the elements of said joint having metal-to-metal contact with each other and with said pipes.

1,920,513
BATHTUB HANGER
William B. Lucke, Wilmette, Ill.
Application May 12, 1932. Serial No. 610,761
10 Claims. (Cl. 4—173)



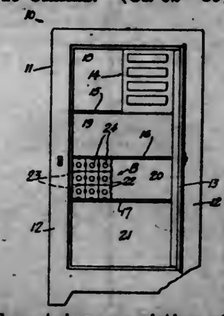
1. Means for supporting a bath tub, embodying a hanger comprising a body portion formed of overlapping members secured together for adjustment whereby the length of the hanger may be varied, end members secured to the respective body members at substantially right angles thereto, said end members embodying sections secured together and adapted for relative adjustment, said body members and end members provided with laterally projecting flanges adapted to engage under the rim of a tub for supporting the tub, and means for securing the said hanger to an upright, one of the sections of each end member adapted to be shifted with respect to its co-operating section, and out of the way of a portion of a tub, to permit the tub to be readily positioned with respect to the hanger and then moved back into operative position with relation to the tub.

1,920,514
RECORDING SPEED INDICATOR
Ezekiel W. Lyen, Yakima, Wash.
Application July 5, 1928, Serial No. 290,318
Renewed January 7, 1933
1 Claim. (Cl. 234—1)



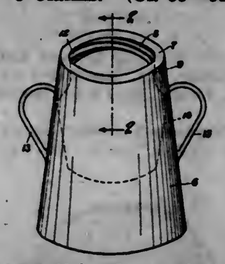
A mounting for a fountain pen adapted to bear on a moving tape, consisting of a flexible arm fixedly secured to a rockable shaft and carrying a fountain pen; a blade secured to the same shaft and disposed in the same direction as the arm; a screw adjustably secured to said blade and disposed to engage the flexible arm at a point well removed from its point of support in a manner to bend the flexible arm and maintain it in proper contact with a moving tape.

1,920,515
HEAT EXCHANGE CONTAINERS AND BATTERIES THEREOF
John E. Marsden, Philadelphia, Pa.
Application August 27, 1932. Serial No. 630,662
19 Claims. (Cl. 62—89)



1. A closed container consisting of a heat conducting material, said container having a polygonal cross section, all sides of the container having longitudinal and transverse ribs terminating in spaced relation to each other to provide openings therebetween, whereby a battery consisting of a plurality of said containers disposed in side by side contact with each other includes channels extending through said battery.

1,920,516
ARTICLE OF TABLEWARE
Marcellus J. McKenzie, Cincinnati, Ohio
Application March 14, 1933. Serial No. 660,693
5 Claims. (Cl. 65—61)

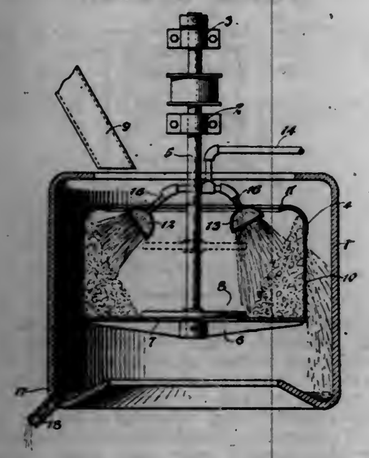


1. As a new article of manufacture, an article of tableware comprising an open bottomed hollow jacket having at least one inclined wall for concealing a common commodity jar having a threaded top portion, and an internally screw threaded portion adjacent to the top of the jacket and adapted to engage the screw threaded top portion of the jar when the jar is inserted into the jacket from below and rotated therein, the distance between the screw threaded portion of the jacket and the opening of the jacket bottom being greater than the height of the jar.

1,920,517
PURIFICATION OF SOLID AROMATIC COMPOUNDS CONTAINING ADHERING IMPURITIES
Wesley Minnis, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York
Application June 7, 1929. Serial No. 369,241
9 Claims. (Cl. 260—142)

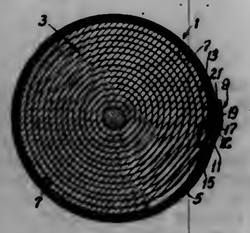
1. The method of purifying a solid aromatic organic substance in the form of particles having an impurity adhering to the surfaces thereof,

which comprises heating the adhering impurity to a sufficient extent to reduce its adhesion to said particles but insufficient to cause substantial melting of said particles, and removing said im-



purity from said particles while subjecting the surfaces of the particles to the erosive action of a rapid stream of liquid in which both the solid substance and the adhering impurity are substantially insoluble.

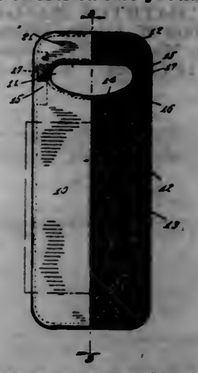
1,920,518
FASTENER
Philip E. Morrill, Webster Groves, and Charles V. Brady, St. Louis, Mo., assignors to Bemis Bro. Bag Co., St. Louis, Mo., a Corporation of Missouri
Application February 9, 1931. Serial No. 514,374
3 Claims. (Cl. 150—1)



1. A container comprising an inner lining having outer and inner lateral edges, said edges being juxtapositioned, an outer reticulated fabric also formed to provide juxtaposed edges, and permeable adhesive material for binding together said fabric juxtaposed edge areas and said outer lining edge.

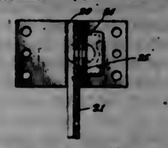
1,920,519
POLICE CLUB
Michael F. Morrissey, Indianapolis, Ind.
Application March 16, 1933. Serial No. 661,020
6 Claims. (Cl. 273—84)

1. A policeman's club, comprising a flat flexible striking member of greater width than thickness so that different effects can be produced by strik-



ing with it flatwise or edgewise, said member having a grip portion at one end.

1,920,520
CIRCLE SUSPENSION
Benjamin Nord, New York, N. Y., assignor to Whitney Metal Products Corp., New York, N. Y., a Corporation of New York
Application December 6, 1932. Serial No. 645,924
6 Claims. (Cl. 108—29)



5. In a circle suspension, the combination with a plate mounting provided with a double-walled rib, one of the walls of the rib having a recess; of a shank member provided with integral projections in engagement with said recess, and shank attaching means disposed between said projections and in engagement with the other wall of said rib.

1,920,521
LOCKING DEVICE
Lewis Preston Patterson, West Los Angeles, Calif.
Application November 5, 1932. Serial No. 641,390
3 Claims. (Cl. 70—14)

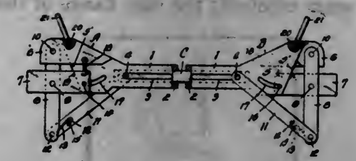


1. In a locking device, a casing having a socket adapted to receive the point portion of a hook while it extends through an eye bolt, a jaw mounted upon said casing having a recessed portion to overlie said hook to prevent its withdrawal from said socket portion when the jaw is in a closed position, and means to lock said jaw in a closed position.

1,920,522
DOUBLE WIRE AND CABLE GRIPPING DEVICE
Newt A. Pinson, Jefferson, Ga.
Application November 7, 1932. Serial No. 641,586
5 Claims. (Cl. 24—134)

1. A cable grip comprising two tubular shanks, a bar connecting said shanks and upon which

the shanks are movable toward and away from each other, a stationary jaw on each shank, a movable jaw associated with and below each stationary jaw, a lever pivoted to each stationary

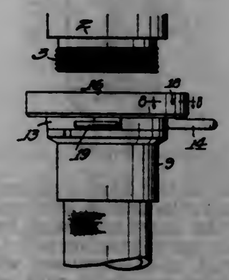


jaw, said levers being also pivoted to the movable jaws and means for guiding the movement of the movable jaws toward and away from the stationary jaws in parallel relation thereto.

1,920,523
OLEAGINOUS SOLUTION OF MERCURY COMPOUNDS AND METHOD OF PREPARING THE SAME
George W. Raiziss, Philadelphia, Pa., assignor to Abbott Laboratories, North Chicago, Ill., a Corporation of Illinois
No Drawing. Application January 8, 1930. Serial No. 419,466
9 Claims. (Cl. 167—71)

1. As a new composition of matter, an oleaginous solution of an organic mercuri-halide compound, which is suitable for the treatment of infections in the human organism.

1,920,524
COUPLING
William S. Reed, Deceased, Leominster, Mass., by Allie L. Reed, Executrix, Leominster, Mass.
Refiled for abandoned application Serial No. 389,926, September 3, 1929. This application April 22, 1933. Serial No. 667,512
5 Claims. (Cl. 285—150)



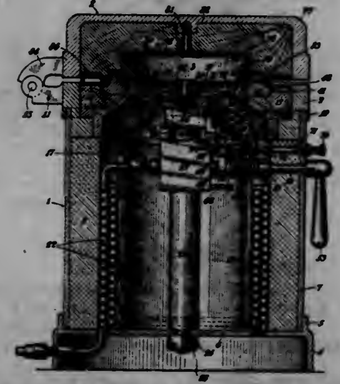
1. A coupling, comprising a body member, and a head member swiveled thereon, said head member being provided with vertical radial open-topped slots in its walls, a series of jaws located in said slots, cams under said jaws to force them inwardly, means to actuate said cams, said jaws having teeth thereon constituting a part of a continuous screw-thread around the coupling member, the jaws having slots for receiving said cams and having lateral projections along the side and said coupling member having slots for said projections to prevent all tendency of the jaws to tilt and to remove the pressure of the jaws against the cap.

1,920,525
METHOD FOR MANUFACTURING TOOTHED V-TYPE BELTS OF RUBBER IMPREGNATED CLOTH
Rudolf Roderwald, Berlin, Germany, assignor to The Dayton Roderwald Company, Dayton, Ohio, a Corporation of Ohio
Application October 20, 1930, Serial No. 489,919, and in Germany November 14, 1928
5 Claims. (Cl. 154—4)



1. A method of manufacturing toothed V-type belts of rubber impregnated cloth, consisting in that a surrounding band provided with apertures is laid into a toothed mold, so that the teeth of the mold enter and penetrate the said apertures, then teeth of a cheap material are brought into the gaps between the teeth of the mold, then the teeth of the cheap material and the teeth of the mold are covered by a plurality of layers of a valuable material, then the surrounding band is closed by overlapping its ends on the outer side of the uppermost layer of valuable material, then the said mold is closed and the whole vulcanized.

1,920,526
ICE FORMING DEVICE
Harry B. Rudd, Douglaston, N. Y.
Application November 17, 1928
Serial No. 320,060
19 Claims. (Cl. 62—121)

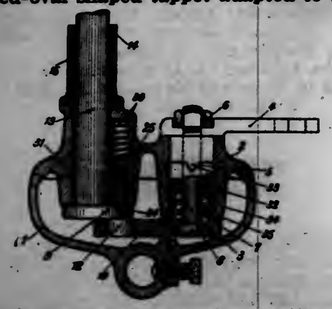


1. Ice forming apparatus comprising a base plate, an outer sleeve on said base plate, a top ring seating on said sleeve, a ring of heat insulation seating on said top ring, a receptacle seating on said insulation ring, a sleeve of insulation lining said outer sleeve, a cylindrical coil of pipe within said insulation sleeve, an inner sleeve of insulation within said coil, and a member within said inner sleeve and connecting said base plate and receptacle to hold the elements assembled, said pipe communicating with said receptacle.

1,920,527
DIRIGIBLE HEADLIGHT
Johannes Carel Schulmayer, Bloemendaal, Netherlands
Application September 21, 1931, Serial No. 563,931, and in Germany January 24, 1931
7 Claims. (Cl. 240—62)

1. In a device of the character described, a movable member having a cam aperture formed

in its free end, said cam aperture having a recess formed in one of its surfaces and a corresponding projection on its opposite surface, and a pointed-oval shaped tappet adapted to be forci-



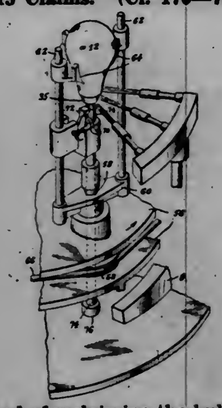
bly moved in predetermined respective positions within said cam aperture, thereby determining the angular positions of a rotatable lamp in respect to its vertical axis, operatively connected with said tappet.

1,920,528

PROCESS OF RECLAIMING ELECTRIC LAMPS AND BULBS

Albert M. Butler and Ralph C. Lane, Danvers, Mass., assignors, by mesne assignments, to Electric Lamp Patents Company, Incorporated, New York, N. Y., a Corporation of New York

Application April 12, 1932. Serial No. 604,726
15 Claims. (Cl. 176—7)



1. A method of reclaiming the bulbs of burned-out electric lamps, consisting of removing the base from the bulb, breaking the exhaust tube thereinto, heating to a plastic condition a portion of the bulb neck adjacent to its end, thinning said portion by a separating movement of the bulb at opposite sides thereof, cutting said thinned portion apart by the application of a flame thereto, and thereafter removing the mount from the bulb.

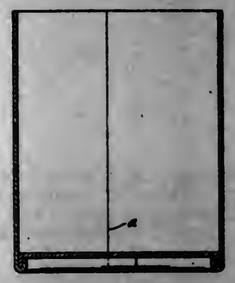
1,920,529

PAPER CONTAINER

Melvin H. Sidebotham, West Newton, Mass., assignor to Specialty Automatic Machine Company, Chelsea, Mass., a Corporation of Massachusetts

Application July 13, 1931. Serial No. 550,402
2 Claims. (Cl. 225—5.6)

1. A paper container comprising a cylindrical body member of single thickness having a vertical seam consisting of overlapped marginal portions of the body, and a circular disk having an outwardly turned flange enclosed by an inwardly turned end edge of the said body, that portion of the seam adjoining the said flange of the disk



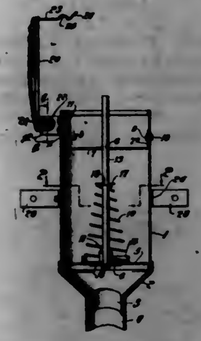
being preliminarily compressed to a hardened condensed tapered sharp-edged condition to fit and correspond completely with the outer surface of the outwardly turned flange of the disk and produce a leak-tight joint between the said body and disk.

1,920,530

OIL FILLING DEVICE FOR CRANK CASES

Herbert C. Snow, Auburn, Ind., assignor to Manning & Co., Chicago, Ill., a Corporation of Illinois

Application April 9, 1930. Serial No. 442,976
7 Claims. (Cl. 220—86)



1. A device of the kind described embodying therein a casing having an inlet end and a discharge end, the latter end being formed with a discharge neck for connection with the filler tube of an engine, a cover associated with said inlet end and a valve associated with said discharge end and movable longitudinally of the casing to close and open said discharge end upon manipulation of the cover to open and close said inlet end.

1,920,531

PERMANENT WAVE HEATER

Samuel Sommer, San Francisco, Calif.

Application April 4, 1932. Serial No. 602,945
7 Claims. (Cl. 132—36)

1. In combination with a hair curler, a heater adapted to embrace the same, shield members mounted on the heater in pivotal relation thereto and having portions adapted to be interposed between the curler and the scalp and to come in

close proximity to each other to prevent the



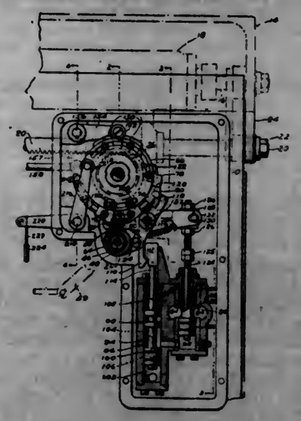
escape of steam from between the heater and curler toward the scalp.

1,920,532

MACHINE TOOL CARRIAGE CONTROL

Clarence C. Stevens, Forestville, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut

Application May 29, 1930. Serial No. 457,236
21 Claims. (Cl. 51—59)



1. In mechanism of the character described, a frame, a carriage, means for reciprocating the carriage through a short stroke, an oscillated member, means for gearing said member to the carriage for operation thereby and constructed and arranged to give the member a greater amplitude of oscillation than the carriage, and means on said oscillated member for controlling carriage movements; substantially as described.

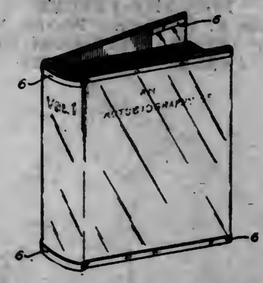
1,920,533

MATERIAL FOR WRAPPING OR COVERING ARTICLES

Nathan J. Strauss, New York, N. Y., assignor to Freydberg Bros., Inc., New York, N. Y., a Corporation of New York

Application September 13, 1932
Serial No. 633,010
8 Claims. (Cl. 281—34)

1. A covering or wrapping material comprising a sheet of thin substantially transparent flexible material, and a binding strip of pliant nonresilient material secured along each of two



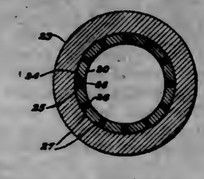
opposite edges of the sheet on both faces thereof and encasing said edges.

1,920,534

CORROSION RESISTANT LINING FOR CRACKING APPARATUS

Garrett V. Swearingen and Enale S. Dixon, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y., a Corporation of Delaware

Application May 19, 1930. Serial No. 453,434
11 Claims. (Cl. 219—10)



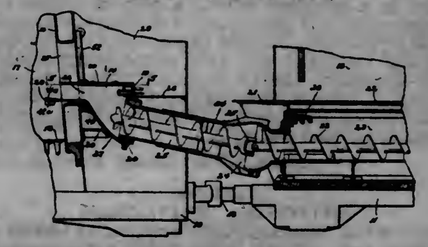
1. The method of protecting a vessel or conduit which comprises inserting therein a lining formed from relatively thin corrosion resisting metal, joining the lining to the vessel or conduit with bonds composed of a plurality of layers of corrosion resisting metal successively super-imposed by fusion welding upon the ends of said vessel or conduit and forming a protective covering therefor.

1,920,535

LOCOMOTIVE STOKER

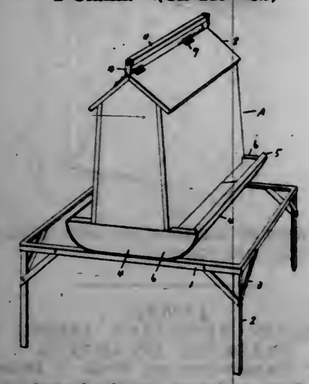
Edwin Archer Turner, New York, N. Y., assignor to The Standard Stoker Company, Incorporated, a Corporation of Delaware

Application September 17, 1928
Serial No. 306,297
5 Claims. (Cl. 110—101)



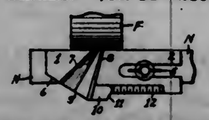
2. In a locomotive stoker, in combination, a feed conveyor adapted for the delivery of fuel to a firebox, distributing means for projecting and distributing all the fuel over the fire, and means above said distributing means for discharging a steam blast to form a cover of steam over the fuel.

1,920,536
POULTRY FEEDER
William F. Vahlkamp, Wayne, Nebr.
Application July 20, 1931. Serial No. 551,986.
1 Claim. (Cl. 119—52)



In a poultry feeder, a trough having a pair of end members of considerable thickness and a bottom and side forming member of considerable less thickness, end members each having a straight upper edge, a flat lower edge and its ends curving upwardly and outwardly from the lower edge to the upper edge with the ends of the bottom and side forming member fastened to said lower and curved end edges with its side edges extending upwardly beyond the upper edges of the end members and bent to extend inwardly and upwardly, and a hopper having its ends resting on intermediate portions of the end members of the trough.

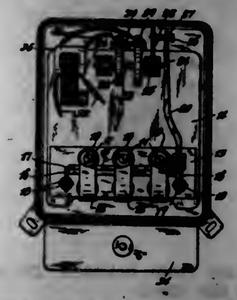
1,920,537
GUIDE FOR CORRECT GRINDING OF TWIST DRILLS
Wilfred B. Ward, Richmond, Ind., assignor to Robert H. Price, Richmond, Ind.
Application May 6, 1932. Serial No. 609,709
2 Claims. (Cl. 51—239)



1. A guide for the correct grinding of twist drills, comprising an oblong plate, means for securing said plate in operative position with relation to a grinding wheel, a pair of ridges integral with said plate and extending thereabove, said ridges being located diagonally with relation to said plate and with each other and providing a V-shaped channel between said ridges, with said channels formed tapering convergently with the juncture of said ridges inclined at an angle with relation to said plate.

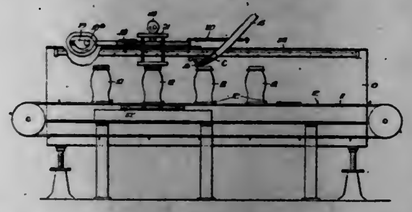
1,920,538
SWITCHING MECHANISM
Juan Wenk, Madrid, Spain, assignor to Landis & Gyr, A-G., of Zug, Switzerland, a Corporation of Switzerland
Application June 18, 1930, Serial No. 462,010, and in Switzerland June 27, 1929
3 Claims. (Cl. 200—122)

1. Switching mechanism including in combination a stationary contact, a movable contact, means for normally holding said movable contact in one position, a lever for moving it to its other position, a pivoted member for moving the lever



and a bimetal spiral spring connected to said pivoted member to move the movable contact out of its normal position.

1,920,539
PACKAGE SEALING METHOD AND APPARATUS
William P. White, Glencoe, Ill., assignor to White Cap Company, Chicago, Ill., a Corporation of Delaware
Application December 20, 1930. Serial No. 503,715
34 Claims. (Cl. 226—82)

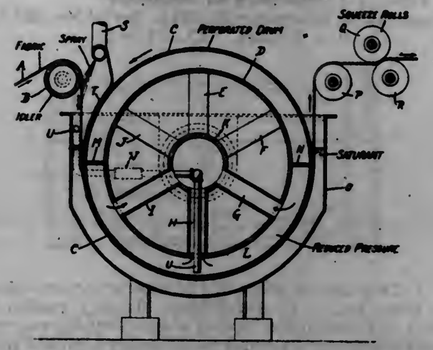


22. A method of packaging which comprises placing the material to be packaged in an open-mouthed container, enveloping the mouth of the container with an atmosphere of hot gas and moving the open mouth of the container progressively through said atmosphere in such fashion that said mouth is enveloped thereby and freely accessible thereto, applying a closure on the mouth of the container while it is moving through said atmosphere, and hermetically sealing the closure on the container immediately after its application and without cessation of its progressive movement.

1,920,540
PROCESS FOR COLORING FRUITS AND VEGETABLES
John R. Winston, Robert Claude Wright and John F. Wootten, Washington, D. C., dedicated to the Government and the People of the United States of America
No Drawing. Application March 21, 1931
Serial No. 524,410
4 Claims. (Cl. 99—11)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The process of coloring fruits and vegetables which comprises maintaining, by continuous flow of ethylene gas, in coloring chambers containing fruits and vegetables to be colored, a uniform concentration of ethylene gas sufficient to color the fruits and vegetables and incapable of causing deterioration.

1,920,541
PROCESS FOR SATURATING FABRIC
Joseph Zavertnik, Harrington Park, and Alexander A. MacCubbin, Montclair, N. J., assignors to The Barrett Company, New York, N. Y., a Corporation of New Jersey
Application September 11, 1929
Serial No. 391,854
9 Claims. (Cl. 91—68)



1. In a process for impregnating fabric in which said fabric is supported on a perforated surface during impregnation with a saturant and a differential pressure is applied to opposite sides of the fabric to promote impregnation, the step which comprises first applying a fluid to one side of the fabric to render it more pliable and adapted to fit closely to said surface and thereafter passing the side of the fabric to which fluid has been applied into contact with said perforated surface.

1,920,542
NEW DYEING PREPARATION AND ITS CONVERSION TO DYESTUFFS
Arthur Zitscher, Wilhelm Seidenfaden, and Karl Jellinek, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware
No Drawing. Application September 3, 1931, Serial No. 561,088, and in Germany September 4, 1930
20 Claims. (Cl. 8—6)

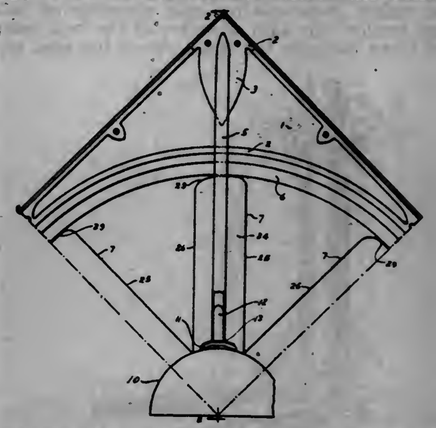
1. As new compositions of matter the dyeing preparations comprising a diazo-sulfonate of the diaryl-amine series corresponding to the probable general formula:

X—NH—R—N=N—SO_3—alkali-metal

wherein X means a naphthalene nucleus or a radical of the benzene series which may contain in the para-position to the NH-group a further —N=N—SO_3—alkali-metal group and R means a radical of the benzene series and a combining component containing a hydroxy or a O-alkali-metal group whereof the adjacent position is capable of attaching an arylazo group, which dyeing preparations yield in the presence of caustic alkali by steaming azo-dyestuffs insoluble in water and alkali.

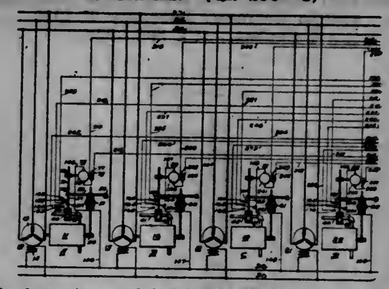
1,920,543
FAN
Edward L. Anderson, Grosse Ile, Mich., assignor to American Blower Corporation, Detroit, Mich., a Corporation of Delaware
Application January 2, 1931. Serial No. 506,059
9 Claims. (Cl. 230—117)

9. In combination, a motor, a fan driven thereby, a Venturi ring, a ring plate supporting said Venturi ring, shouldered projections on said plate, saddle and stub projections on said motor, and hollow struts mounted on said stub and shouldered projections at spaced intervals to support the motor and fan within the Venturi



ring, and fan blades on said fan of airfoil section, one face of each of said blades being a plane, and a streamlined housing for said motor and a streamlined section for said struts whereby said airfoil sections operate with a minimum of air disturbance.

1,920,544
AUTOMATIC REGULATING SYSTEM
John H. Ashbaugh, Longmeadow, Mass., and Ralph A. Geiselman, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application August 11, 1931. Serial No. 556,248
22 Claims. (Cl. 290—4)

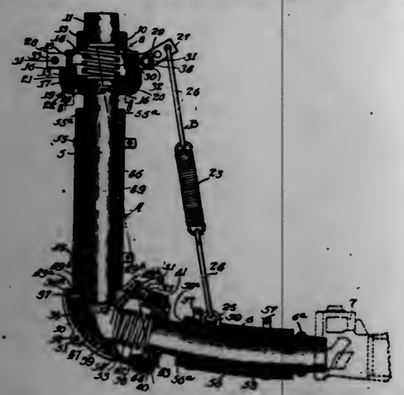


22. A system of load-distribution supervision for a plurality of parallel-operated machines comprising equipment for transferring, in accordance with a predetermined schedule, the control of a load-adjusting regulator from one machine to another upon the engagement of load-responsive contact members associated with the machine under regulator control.

1,920,545
PIPE COUPLING
Francis Norwood Bard, Highland Park, Ill.
Application September 8, 1930. Serial No. 480,287
5 Claims. (Cl. 285—91)

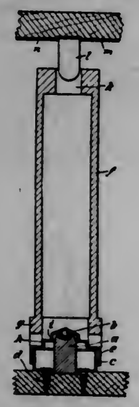
2. A flexible pipe structure having a ball pipe joint between adjoining sections thereof, said joint comprising ball and casing members on the respective sections and a ball-seating gasket re-

tained in said casing member, said ball member being a hard metal part fitted on the end of the pipe section which carries it, said pipe section having an external annular shoulder and the bore of the ball member having an internal shoulder which abuts against said shoulder on said pipe section, the said shoulder of the ball member being between the shoulder on the pipe sec-



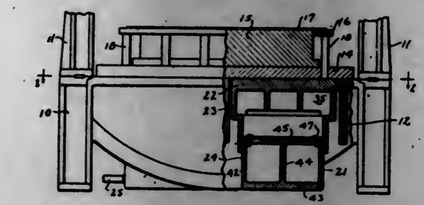
tion and the extreme end of said pipe section, said ball member being formed to provide an annular groove around its said shoulder at the side thereof adjacent said extreme end of said pipe section, and said extreme end of said pipe section being swaged over said shoulder of the ball member, whereby the ball member is secured fast on said pipe section.

1,920,546
BEARING SUPPORT
August Gottfried Brunner, Plauen, Germany
Application January 13, 1931, Serial No. 508,467, and in Germany February 7, 1930
7 Claims. (Cl. 308—228)



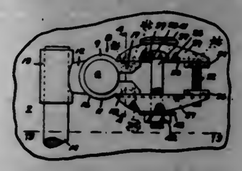
1. A bearing support for vertical delivery spools in spinning machines, comprising a supporting bell provided with centering steps for the lower end of the spool tube, an upright supporting bolt for said bell, a steel ball arranged in a cup in said bolt and adapted to take the thrust of and centre the bell, and a depending bolt adapted to engage in and support the upper end of the spool tube, said depending bolt allowing axial displacement and tilting of the spool tube for the detachment of the latter from the supporting bell.

1,920,547
PRESS
Arthur A. Byerlein, Detroit, Mich., assignor to General Machinery Corporation, Hamilton, Ohio, a Corporation of Delaware
Application December 26, 1931. Serial No. 583,188
4 Claims. (Cl. 267—1)



1. In a power press of the character described, a press bed, a pressure plate slidably guided in said bed, said plate having a downwardly extending cylindrical wall and a stationary member having an upwardly extending wall telescopically related to said cylindrical wall, said pressure plate and member forming a closed fluid pressure chamber, the upper portion of said chamber having substantially greater cross-sectional area than its area at the telescopically related walls.

1,920,548
BATTERY TERMINAL CLAMP
Samuel E. Carlson, Alhambra, Calif.
Application February 26, 1930. Serial No. 431,474
6 Claims. (Cl. 173—259)

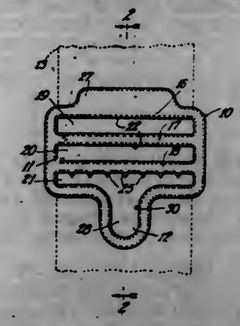


1. A terminal clamp comprising a pair of arms having a passage therebetween adapted to receive the terminal to be clamped, a pair of levers engaging said arms, and means for forcing said levers toward each other to clamp said arms upon said terminal, said levers being pivotally engaged with said arms to dispose said forcing means optionally in a plurality of positions.

1,920,549
SLIDE LOOP
John M. Clark, Detroit, Mich., assignor to Universal Button Fastening & Button Company, Detroit, Mich., a Corporation of Michigan
Application July 14, 1932. Serial No. 622,391
4 Claims. (Cl. 24—73)

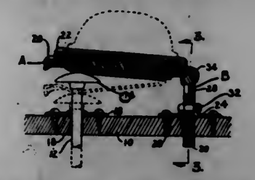
4. An article of the character described comprising in combination a stamped sheet metal blank slotted along parallel lines to provide a plurality of spaced parallel bars, the metal at the margins of said slots being turned back to give the bars a channel shaped section, the turned back metal along the lower edge of the lower bar being formed with a plurality of teeth which project downwardly below the lower bar to provide suspender gripping means, and a suspender

strap passing around the lower bar and imposing its pull on the lower bar in the region of said



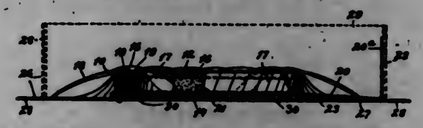
teeth whereby said teeth effectively prevent slippage of the strap.

1,920,550
ACCELERATOR FOOT PEDAL
Harry J. Cocks, Des Moines, Iowa, assignor to Metal Products Company, Des Moines, Iowa
Application July 29, 1929. Serial No. 381,951
1 Claim. (Cl. 74—91)



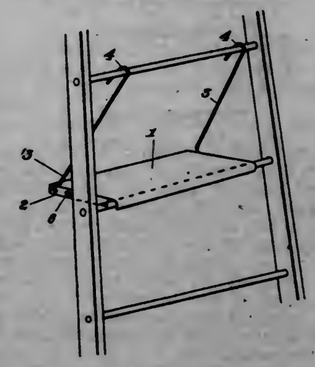
An accelerator foot pedal comprising a support of T-shape, a threaded mounting plate therefor, and a pedal element hingedly connected with said support and adapted to engage an accelerator push rod, said support having a supporting leg threaded into said mounting plate and supported thereby and said pedal element having a pair of ears spaced on opposite sides of said supporting leg and encircling the arms of said T-shaped support to provide such hinge connection.

1,920,551
WREATH STRUCTURE
Carrie Orr Daum, Bath Township, Summit County, Ohio, assignor to Cleveland Wreath & Spray Company, Inc., Barberton, Ohio, a Corporation of Ohio
Application January 14, 1932. Serial No. 586,606
9 Claims. (Cl. 41—12)



9. A wreath package comprising a box body, a combined wreath and easel structure including a frame having a ground-impaling prop pivoted thereto and swung aside toward a corner of the box, between the frame and the bottom of the box body, and easel legs with forwardly-projecting extremities bendable downwardly for insertion in the ground, and severable ties binding said structure to the back of the box body.

1,920,552
DETACHABLE SAFETY LADDER STEP
Charles M. Dollerhide, Davenport, Iowa
Application December 26, 1929. Serial No. 416,547
3 Claims. (Cl. 304—34)



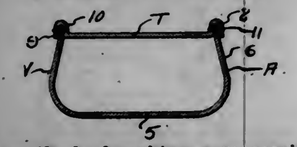
1. In a detachable ladder step, a metal plate with depending end flanges each provided with a pair of perforations, rods having upper hook elements and having lower ends formed in substantially U-shape angularly disposed relatively to the plane of the upper hook elements, said rods assembled in one of the perforations of each end flange of the plate and the prongs of said hook elements being adapted to engage in the other perforation of each of said flanges when said step is in a folded position.

1,920,553
CONNECTING MEANS FOR SCREENED CABLES
Giuseppe Fossati, Monza, Italy, assignor to Fabbrica Italiana Magneti Marelli Società Anonima, Milan, Italy
Application February 25, 1931, Serial No. 518,188, and in Italy March 1, 1930
4 Claims. (Cl. 173—269)



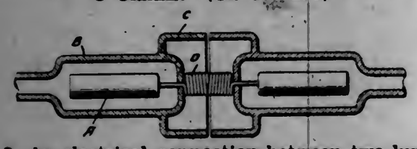
1. Means for connecting a cable having a screening sheath thereon, with a screened member in ignition means for internal combustion engines, said connecting means comprising a resilient conducting member enclosing the cable and encircling the end portion of said cable and having one end fastened on said cable sheath at a point spaced from the cable end and its other end loose on said cable for engagement with said screened member and an annular ball head on the last named end of said resilient member.

1,920,554
MOCCASIN
Fred J. Grams, Mishawaka, Ind.
Application February 19, 1932. Serial No. 594,029
3 Claims. (Cl. 12—142)



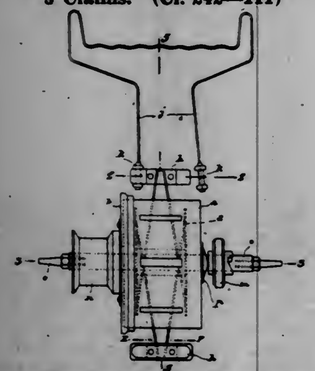
1. The method of making a moccasin, which consists in first forming a U-shaped channel having spaced parallel walls on the marginal edge of the upper, second placing the upper edge of the vamp in the channel; then temporarily uniting the top edge of the vamp with the walls of the channel by an adhesive, and finally machine stitching through the walls of the channel and the top edge of the upper with the machine stitching disposed in a horizontal plane at right angles to the walls of the channel and the side walls of the vamp.

1,920,555
NEON TUBE SIGN
Drago Grbovic, New York, N. Y.
Application March 24, 1932. Serial No. 600,923
3 Claims. (Cl. 40—130)



2. An electrical connection between two luminous gas tubes comprising, an enlargement formed on the end of each tube, an electrode in each enlargement, a resilient wire extending from the electrode and passed through and beyond the outer end of the enlargement, the outer end of the wire being bent into a coil engaging the coil of the other wire and means forming an enclosure for said coils.

1,920,556
EXTENSIBLE SWIFT FOR THE WINDING OF HANKS OF SILK, COTTON, OR OTHER YARNS OF DIFFERENT DIAMETERS
Alfred Gubelmann, Villeurbanne, France
Application December 11, 1931, Serial No. 580,423, and in France April 1, 1931
3 Claims. (Cl. 242—111)

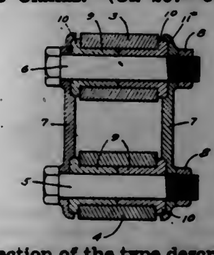


1. An expansible swift for hanks of textile yarn of the type referred to comprising a shaft, a slotted cage loosely mounted on the shaft, discs keyed to the shaft one at each end of the cage, a plurality of converging arms pivoted in pairs on the discs with each pair projecting through a slot in the cage, a pair of resilient transverse members connecting the two arms of each pair together and yarn carrying arms secured to the transverse members.

1,920,557
PROCESS OF PRODUCING AND TREATING SULPHOCYANATE SALTS
Emil Hene, Berlin-Grunewald, Germany
No Drawing. Application August 16, 1929, Serial No. 386,497, and in Germany November 19, 1928
2 Claims. (Cl. 23—75)

1. The process of producing sulphocyanate salts comprising melting together nonaqueous sulphydrates and dicyandiamide at a temperature between 200° and 500° C.

1,920,558
OIL-LESS SPRING SHACKLE
Raymond Henry, Rock Island, Ill., assignor, by mesne assignments, to Henry Manufacturing Co., Davenport, Iowa, a Corporation of Iowa
Application July 17, 1925. Serial No. 44,231
5 Claims. (Cl. 267—54)

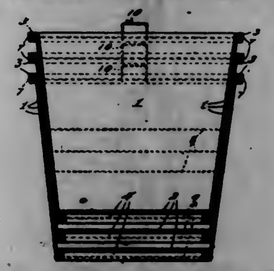


1. A connection of the type described, comprising a member having a cylindrical bearing, a bolt extending through said bearing, laterally spaced side arm members supported on the end portions of the bolt, a bushing interposed between the bolt, the bearing and said side arm members, consisting of two elastic tubular members extending into the opposite end portions of said bearing and abutting against each other, each of said elastic tubular members having a head at its outer end adapted to abut against the adjacent end of the bearing, annular recesses formed directly in the inner faces of said side arm members and fitting over and engaging the outer surfaces of said heads to confine the same and resist outward expansion thereof, and means coacting with said bolt and with said side arm members for compressing said tubular members, said side arm members being oscillatable relatively to said bolt.

1,920,559
THERMOELECTRIC ELEMENT AND THERMOCOUPLE
Otto Hermann, St. Louis, Mo., assignor to Thermo Electric Company, St. Louis, Mo., a Corporation of Missouri
No Drawing. Application July 30, 1931
Serial No. 554,166
2 Claims. (Cl. 136—5)

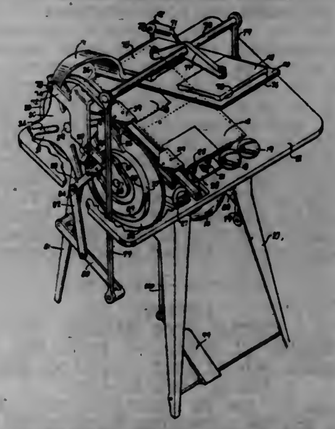
2. A thermo-couple, the positive element of which consists of an alloy of 55% copper and 45% nickel and the negative element of an alloy of 60–63% antimony, 34–37% zinc and 1–4.5% arsenic.

1,920,560
WIREBOUND CONTAINER
Leslie M. Hile, Benton Harbor, Mich.
Application July 14, 1930. Serial No. 467,927
2 Claims. (Cl. 217—122)



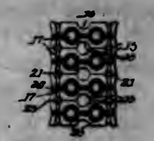
1. A wirebound blank for use in making a downwardly tapering container of polygonal cross-section, comprising a plurality of flat side wall sections, each of which is tapered toward the bottom of the blank, said sections being arranged in contiguous relation with the wider portions of adjacent sections spaced to a greater extent than the narrower portions thereof, whereby the sections are arranged in a substantially arcuate formation, cleats, one secured to the upper wider portion of each section against that face which is outer in the finished container, and another secured to the lower narrower portion of each section against that face which is inner in the finished container, top and bottom binding wires flexibly securing the sections together, said bottom wire being secured to the outer faces of the sections, and said upper wire being secured to the outer faces of the cleats, whereby the cleats serve to tension the top wire and bring the wider portions of adjacent sections toward each other when the blank is folded, to form a container capable of being nested.

1,920,561
PHOTOGRAPHIC PRINTING MACHINE
Arthur W. Jacobi, St. Louis, Mo., assignor of two-thirds to O. J. Coughly and R. E. Ponder, both of St. Louis, Mo.
Application June 12, 1930. Serial No. 460,636
31 Claims. (Cl. 95—73)



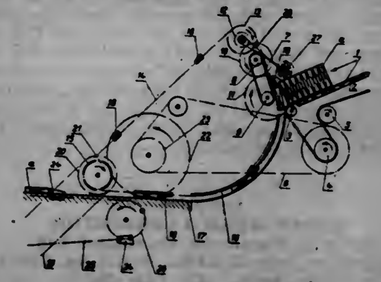
1. A photographic printing machine including a plurality of printing areas adapted to be illuminated, a conveyor operable intermittently to transfer elements to be printed, from a position on one of said areas to a position on another thereof, and means for repositioning said elements with respect to said printing areas.

1,920,562
RADIATOR CONSTRUCTION
Harry Jaffe, Chicago, Ill., assignor to Johnston Tool & Die Co., Chicago, Ill., a Corporation of Illinois
Application August 8, 1930. Serial No. 473,796
3 Claims. (Cl. 257—129)



1. In radiator core construction, the combination of a plurality of pairs of separator plates, the plates of each pair being sinuous in edge elevation to provide alternate depressions and ridges, the depressed portions of each of the pair of plates being in contact, a tube confined between the plates, said core being made up of a series of said pairs of plates and confined tubes, the ridge portions of the plates of each pair being in contact with the corresponding portions of the plates of an adjacent pair, said contacting ridge portions of adjacent pairs being grooved to provide for the reception of an intermediate vertical tube, each of said plates having a rib extending vertically and formed along the margin thereof, said rib projecting into the open spaces resulting from the formation of the depressions and ridges.

1,920,563
APPARATUS FOR TRANSFERRING BOXES FROM A PILE
Ernst Hermann Jähne, Dresden, Germany, assignor to "Universelle" Cigarettenmaschinen-Fabrik, J. C. Muller & Company, Dresden, Germany
Application February 24, 1931, Serial No. 517,995, and in Germany July 26, 1930
11 Claims. (Cl. 198—35)



1. An apparatus for transferring filled boxes without shock from a pile to a position where they are subjected to further treatment comprising a conveyor belt, means for pressing a pile of boxes against said conveyer belt so that said conveyor belt may remove the foremost box by friction, a curved guideway, an endless chain traveling along said curved guideway, means upon said chain for engaging said foremost box which has been entirely or partly transferred to said curved guideway by said conveyor belt and

means for moving said endless chain at approximately the delivery speed of said conveyor belt.

1,920,564

AGENT FOR SIZING TEXTILE FIBERS AND A PROCESS OF SIZING TEXTILE FIBERS

Kurt Jochum and Arthur Voss, Frankfort-on-the-Main, Hermann Geier, Mainz-Kastel, and Ewald Dickhäuser, Gersthofen near Augsburg, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application November 24, 1931, Serial No. 577,158, and in Germany November 29, 1930

2 Claims. (Cl. 91—68)

1. The process which comprises treating textile fibers with an agent containing a highly viscous polyvinyl alcohol which in an aqueous solution shows about 10 to 25 times the viscosity of an aqueous glycerine solution of equal concentration.

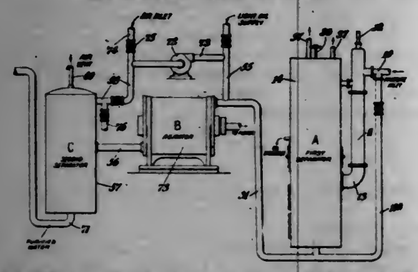
1,920,565

SEPARATION OF MIXTURES OF WATER WITH OIL

Leo D. Jones, Philadelphia, Pa., assignor to The Sharples Specialty Company, Philadelphia, Pa., a Corporation of Delaware

Application June 12, 1928. Serial No. 284,848

12 Claims. (Cl. 196—3)



10. The method of separating oil from ballast water in which it is contained in the form of a finely divided emulsion or suspension of a relatively minute proportion of oil in water, which comprises adding to the mixture an oil of substantially lower specific gravity than the average specific gravity of the oil contained therein, bringing the added oil into contact with the dispersed particles of oil and effecting a coalescence of the added oil therewith by agitation, and then separating the added oil together with the oil already contained in suspension or emulsion, from the mixture by subsidence.

1,920,566

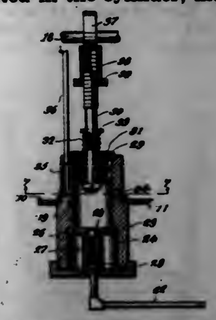
FORCE FEED LUBRICATOR

Erich L. Kaegebein, Hammond, Ind.

Application July 25, 1930. Serial No. 470,715

1 Claim. (Cl. 184—28)

A force feed lubricator comprising an oil reservoir, a cylinder extending into the reservoir, having its bore enlarged defining an internal annular shoulder, a valve plate fitted against said shoulder having an axial way therethrough defining a valve seat, a cylinder head for the cylinder, a sleeve arranged between the cylinder head and the valve plate and surrounding the way in said valve plate, a valve for the valve seat, an expansion spring arranged in the sleeve for normally holding the valve on its seat, an oil feed pipe extending into the sleeve, a piston reciprocately mounted in the cylinder, means for operating the piston, said cylinder having an oil inlet port communicating with the reservoir and arranged above the valve plate in said cylinder.



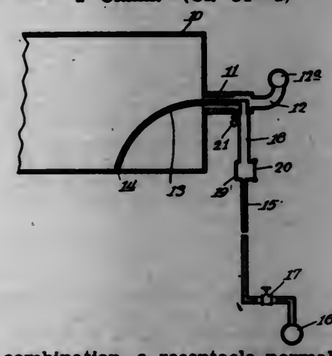
1,920,567

HEATING SYSTEM

Daniel H. Keck, Appleton, Wis., assignor to Paper Patents Company, Neenah, Wis., a Corporation of Wisconsin

Application April 3, 1930. Serial No. 441,196

1 Claim. (Cl. 34—4)



In combination, a receptacle normally sealed from the atmosphere, means for supplying steam to said receptacle for heating the same, a pipe having an intake leg communicating with the bottom portion of said receptacle and provided with a substantially vertical discharge leg extending to a discharge end, a valve disposed in said discharge leg, said discharge leg intermediate of its length having an enlarged portion of a vertical length at least substantially as great as that of said intake leg so as to prevent siphoning from said receptacle, and said discharge leg between said enlarged portion and said valve being relatively long so as to serve as a balance which will automatically control the flow of condensate through said valve in accordance with the amount of condensate being formed in said receptacle.

1,920,568

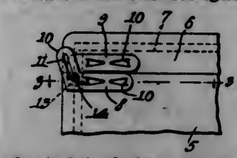
CIGAR BOX HINGE

Samuel C. Kling, of York, Pa.

Application July 22, 1932. Serial No. 624,082

1 Claim. (Cl. 16—179)

A hinge for use in connection with the lid of a box, and the upstanding flange at the upper end of the box, said hinge comprising a box section adapted to be secured to the box, an upwardly and rearwardly inclined end portion having an elongated slot formed therein, the lower end of the slot being offset, a lid section, one end of the lid section extending at right angles, a headed extension secured to the right angled portion and slidable in the elongated slot, and



said hinge adapted to hold one edge of the lid into engagement with the flange of the box, whereby the lid is supported at an oblique angle with respect to the box, providing a support by means of which the box may be lifted.

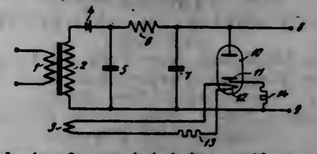
1,920,569

DEVICE FOR KEEPING CONSTANT THE TERMINAL VOLTAGE OF SOURCES OF CURRENT

Ladislaus Körös, Berlin-Tempelhof, Germany, assignor to N. V. Stabilovolt, 's-Gravenhage, Netherlands

Application November 11, 1929, Serial No. 406,486, and in Hungary November 12, 1928

5 Claims. (Cl. 171—312)



1. A device for maintaining uniform potential difference between two conductors carrying continuous current and comprising an arc discharge gap and a resistance bridged in series between said conductors, said discharge gap having a negative voltage characteristic and the resistance having a positive voltage characteristic balancing the negative voltage characteristic of the discharge gap whereby the algebraic sum of the effects of such characteristics is zero.

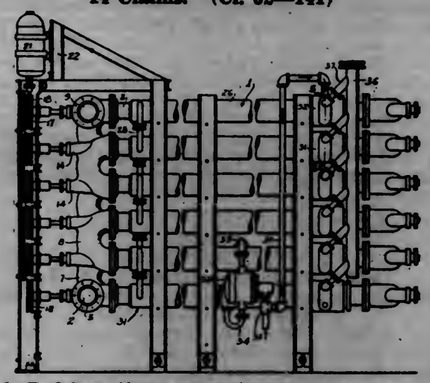
1,920,570

DISTRIBUTIVE REFRIGERATING EVAPORATOR

Benjamin F. Kubaugh, Louisville, Ky., assignor to Henry Vogt Machine Co., Louisville, Ky., a Corporation of Kentucky

Application February 4, 1933. Serial No. 655,267

14 Claims. (Cl. 62—141)



1. Refrigerating evaporator comprising a conduit arranged serially in superposed tiers, constituted by substantially horizontal limbs with end connections, jackets individual to said limbs and forming therewith evaporator chambers, means for supplying liquid refrigerant serially to said chambers beginning with the uppermost chamber, said means comprising in part, conduits interconnecting said chambers and arranged to determine a liquid level in each of said chambers, and means individual to each chamber for conducting away the expanded gas originating in each chamber.

1,920,571

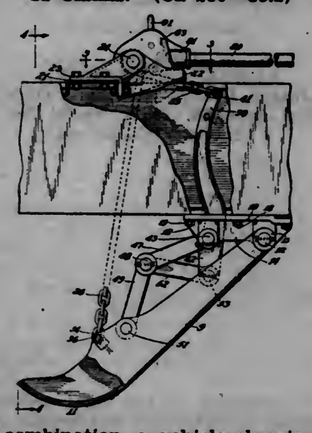
COMBINED CHASSIS FRAME AND SUPPORT

Joseph Kuchar, Chicago, Ill., assignor to Athey Truss Wheel Co., Chicago, Ill., a Corporation of Illinois

Application February 21, 1930

Serial No. 430,157

11 Claims. (Cl. 280—33.1)



1. In combination, a vehicle chassis frame, a support therefor, an adjustable mechanism for forcibly raising and lowering said support, means for holding said mechanism in adjusted position, said mechanism comprising a shaft journalled on said frame, means for rotating said shaft, and a plurality of chains operably connecting said support to said shaft, said chains being respectively adapted to raise and lower said support upon rotation of said shaft in opposite directions.

1,920,572

FURNACE GRATE STOKER CONTROL

William A. Lacke, Chicago, Ill., assignor, by mesne assignments, to Pullman Car & Manufacturing Corporation, a Corporation of Delaware

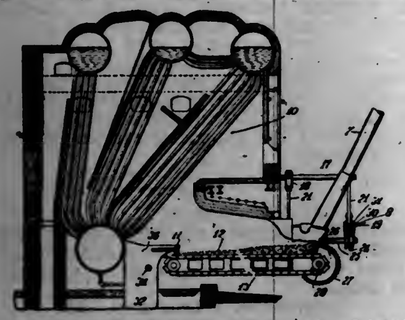
Application November 2, 1928

Serial No. 316,704

4 Claims. (Cl. 236—15)

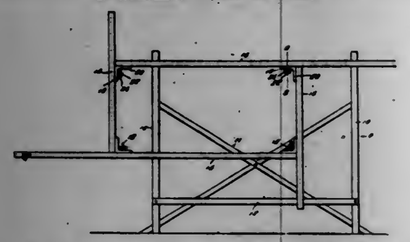
1. In grate stoker mechanism for feeding fuel through a furnace, the combination with a control unit comprising a tube anchored at one end in the wall of the furnace and having its inner end adjacent the discharge end of the stoker and a thermostat supported thereon within the radiant heat zone of the hot coals and ashes passing from the stoker, of means associated with said unit for shielding the thermostat from the enveloping heat of the furnace and ashpit, and a solenoid in series with the thermostat and so placed with respect to said stoker mechanism as to cause reduction of speed thereof upon closure of said circuit, said tube at its wall end being

open to the atmosphere whereby the thermostat supported upon its inner end will be swept by air



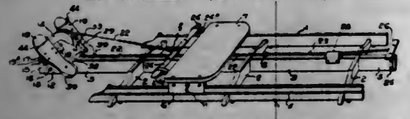
drawn therethrough and in the path of heated materials discharged from the stoker.

1,920,573
CURTAIN STRETCHER
Joseph Ladige, Struthers, Ohio
Application June 29, 1932. Serial No. 620,009
2 Claims. (Cl. 45—24)



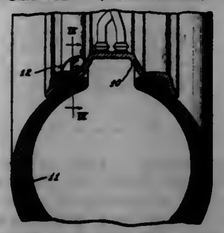
1. In a structure of the class described, an easel having a transverse reinforcing rail and including a foldable hinged prop, a curtain stretcher frame comprising spaced parallel longitudinal bars and transverse end bars adjustably connected together, one of said longitudinal bars being fixedly attached to the vertical end members of said easel, one of the end bars of said frame being provided adjacent its ends with a keeper hook, and the reinforcing rail of said easel being provided with a longitudinal groove forming a guideway and keeper for said hook.

1,920,574
EXERCISING MACHINE
August F. Luxzi, Wichita Falls, Tex.
Application January 14, 1932. Serial No. 586,536
12 Claims. (Cl. 272—72)



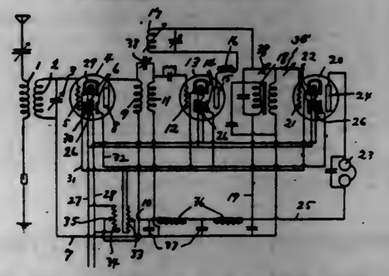
1. An exercising machine including tracks in parallel relationship having a seat constrained to travel from end to end thereof, a grooved drum rotatably disposed forwardly of said machine, foot pieces lockably disposed to either side of said drum, friction means arranged to be brought against the surface of said drum and indirectly controlled by said foot pieces, and means surrounding said drum having yieldable connection to a stationary part of said machine and accessible to an operator on said machine.

1,920,575
WHEEL RIM ORNAMENTAL BEAD
George Albert Lyon, Allenhurst, N. J.
Application July 28, 1932. Serial No. 625,307
6 Claims. (Cl. 41—10)



1. The combination with a wheel rim having a circular groove therein of an ornamental circular bead disposed over said groove so as to overlie the same and having an underturned portion in engagement with said groove and an outer curved marginal portion the edge of which is slightly spaced from the rim so as not to offer any resistance to the free movement of said under turned portion into engagement with the groove.

1,920,576
COMBINED AMPLIFYING AND RECTIFYING SYSTEM
Michel E. Macksoud, New York, N. Y., assignor to The Electron Corporation, East Orange, N. J., a Corporation of New Jersey
Application July 3, 1926. Serial No. 120,376
5 Claims. (Cl. 250—27)

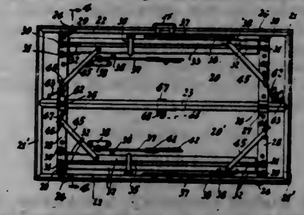


2. In a rectifying and amplifying circuit the combination comprising an audion having grid and plate electrodes, a two part cathode emitter and a heater for said emitter, said heater being adapted to be connected directly to a source of alternating current, a high resistance connected across said heater, an input circuit including said grid which is connected to the approximate center of said resistance, a connection between the two parts of the emitter including a high resistance and an output circuit including a connection from the plate to the approximate center of said second resistance, whereby the alternating current is fully rectified and applied to said plate.

1,920,577
FOLDING TABLE
Felix Malinowski, Brooklyn, N. Y.
Application October 24, 1931. Serial No. 570,856
4 Claims. (Cl. 45—116)

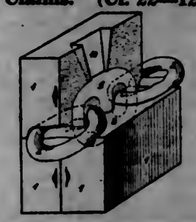
1. A table comprising two elongated rectangular plates, inset flanges adjacent the ends and one side edge of each plate, flanges on the extreme edge of the opposite side of said plates, all of said flanges extending uniformly to form

a chamber between said plates when juxtaposed, transverse straps having hinges connecting said plates to extend over the last named flanges, and entirely across said plates, means to bolt said hinges when the plates are extended in op-



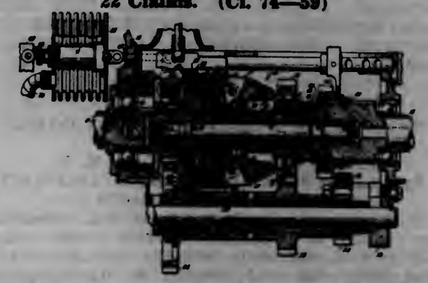
erative positions, foldable legs pivotally engaged at the outer ends of said straps, means for locking said legs when extended at right angles from said supports, and a handle on one of said inset flanges.

1,920,578
DEVICE FOR PRODUCING CAST CHAINS COMPOSED OF SINGLE LINKS
Paul Matsow, Magdeburg, Germany
Application April 2, 1932, Serial No. 602,831, and in Germany April 7, 1931
2 Claims. (Cl. 22—126)



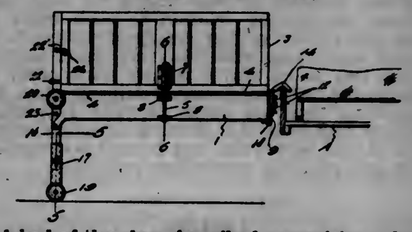
1. A device for casting individual links in chains, comprising in combination a multiple part mould box, and metal walls on the adjacent sides of said mould parts having recesses for accommodating and surrounding the finished links, the space within said box parts adapted to accommodate the sand for forming the complete mould for the link to be cast said sand mould being held by the recessed portions of said metal walls.

1,920,579
TRANSMISSION
Frank C. Mock, Montclair, N. J., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J., a Corporation of New Jersey
Application March 30, 1932. Serial No. 602,038
22 Claims. (Cl. 74—59)



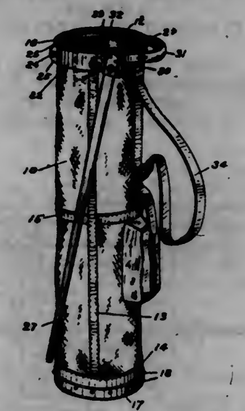
1. In a device of the character described, a driving shaft, a driven shaft, a clutch for connecting the shafts, vacuum means for controlling the clutch, speed responsive means for controlling the clutch, torque responsive means for controlling the clutch, and means for connecting the shafts around the clutch upon disengagement thereof.

1,920,580
CHILD'S BED
Katherine L. McGlauthen, St. Louis, Mo.
Application January 20, 1932. Serial No. 587,797
1 Claim. (Cl. 5—99)



A bed of the class described comprising a body, ears extending downwardly and outwardly from the corners of one side thereof, legs pivoted to the ears intermediate the ends of the legs, a tubular telescopic member on the lower end of each leg, means for holding said member in adjusted position, a wheel supported on a horizontal axis at the lower end of each tubular member, a wheel supported on a horizontal axis at the upper end of each leg, said wheels engaging a surface when the legs are moved to a horizontal position, with the wheels carried by the legs spaced outwardly from said side of the body and said tubular members being extended to place the wheels carried thereby at a point beyond the center of gravity of the body, whereby the body will be supported in stable position on the pairs of wheels without toppling over.

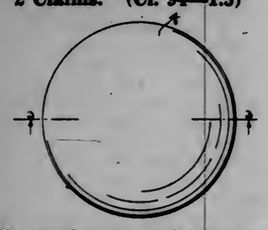
1,920,581
SUPPORTING DEVICE FOR GOLF BAGS
Thomas W. Murphy and John C. Otis, Pierpont, and William G. Waddel, Webster, S. Dak.; said Murphy assignor of one-third to Elizabeth J. Murphy, Pierpont, S. Dak.
Application May 23, 1930. Serial No. 454,922
1 Claim. (Cl. 150—1.5)



A supporting device for a golf bag, comprising a pair of supporting legs, separate means for pivotally attaching an intermediate portion of each supporting leg to the golf bag so that a

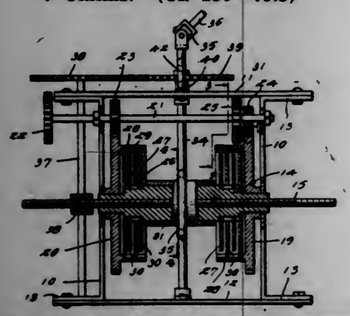
relatively long length of the leg is disposed below its pivot and a relatively short length of the leg is disposed above its pivot, and a spring element attached to said relatively short lengths of the supporting legs and adapted to normally hold said relatively long lengths of the legs in inoperative position adjacent said bag, said spring element being adapted to be manipulated to simultaneously swing said supporting legs upon their pivots to move said relatively long lengths of the legs to bag supporting position, and said separate pivotal means for said supporting legs having relation to each other to cause said relatively long lengths of the legs to be spread apart and said relatively short lengths of the legs to be moved toward each other to tension and twist said spring element when the supporting legs are swung toward supporting position, and stops for limiting swinging movement of said supporting legs beyond said inoperative and said bag supporting positions.

1,920,582
TRAFFIC MARKER
George Dalton Myers, Cincinnati, Ohio, assignor to The Edwards Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio
Application November 4, 1930
Serial No. 493,346
2 Claims. (Cl. 94—1.5)



1. A traffic marker comprising a metal plate, and a metal pin extending from the plate, said pin consisting of two portions, one of said portions lying within the other portion, forming the end of the pin and extending into the plate, the metal of the other portion of the pin and plate being continuous.

1,920,583
MOTOR CONTROLLED STEERING MECHANISM
John O'Hare, Chicago, Ill.
Application September 3, 1932
Serial No. 631,732
7 Claims. (Cl. 180—79.3)



1. A motor operated steering mechanism including tubular internally threaded shaft, a screw-threaded rod disposed within said shaft and shifted by the shaft in one direction or the other as the shaft is rotated in one direction or the other, clutch elements mounted upon the opposite ends of said shaft, gear wheels loosely mounted upon the opposite ends of the shaft, clutch elements carried by the gear wheels and coacting with the first named clutch elements, motor operated means for driving said gear wheels in relatively opposite directions, and manually operated means for clutching either one of said gear wheels to the rotatable shaft.

1,920,584
SAWING OF LOGS
Karl Erik Rudolf Österberg, Stockholm, Sweden, assignor to J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag, Stockholm, Sweden, a Joint-Stock Company of Sweden
Application October 1, 1932, Serial No. 635,827, and in Sweden November 14, 1931
16 Claims. (Cl. 143—157)



1. In a sawing machine, a saw blade, a guiding member behind said saw blade and entering the saw kerf for guiding the material sawn, a second guiding member farther away from the saw blade, and means for bringing said second guiding member out of guiding function.

16. In a sawing machine, a set of saw blades, a support behind said saw blades, a threaded spindle rotatably mounted in said support, a slide slidably arranged on said spindle, a guiding member on said slide, said guiding member being adapted to enter a saw kerf for guiding the material sawn, and means for rotating said spindle, to adjust the position of said guiding member at an angle to the direction of feed of the material sawn.

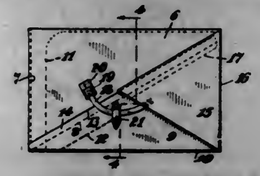
1,920,585
CONDENSATION PRODUCT OF ALKALI METAL BISULPHITES WITH OCTADECADIENE -9, 11-ACID-1 OR ITS AMIDE
Karl Ott, Leverkusen, and Heribert Schüssler, Cologne-Deutz, Germany, assignors, by mesne assignments, to General Aniline Works, Inc., New York, N. Y.
No Drawing. Application January 29, 1931, Serial No. 512,202, and in Germany February 10, 1930
2 Claims. (Cl. 260—112)

1. New wetting and emulsifying agents being chemically condensation products from alkali metal bisulphites and a member of the group consisting of octadecadiene -9, 11-acid-1 and its amides.

1,920,586
BRIEF CASE, PORTFOLIO, AND OTHER CONTAINER
Nathan Ottinger, New York, N. Y.
Application June 1, 1931. Serial No. 541,217
2 Claims. (Cl. 150—52)

1. A container having a body wall constituting one side of an article receiving pocket, and a wall section extending partially over one side of said body wall and secured in fixed relation thereto to constitute the other side wall of the pocket, said wall section having a free edge extending diagonally across said body wall at the

open side of the pocket, relatively movable side and end closure flaps for the pocket connected with said body wall and foldable relative thereto into superimposed relation and each externally overlapping the free edge of said pocket wall section, means for connecting said foldable closure

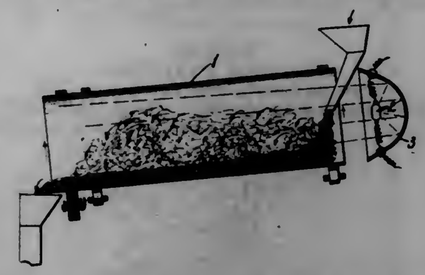


flaps and holding the same against relative movement from their closed positions, said means including a flexible strap attached to one of said flaps and releasably engaging a part on the other flap, and means for securing the free end of said strap to said pocket wall section beyond the free edge thereof.

1,920,587
ANTIRICKETIC SUBSTANCE AND THE PRODUCTION THEREOF
August J. Pacini, Chicago, Ill., assignor to Sun-A-Sured, Inc., a Corporation of Delaware
No Drawing. Application February 4, 1928
Serial No. 252,049
3 Claims. (Cl. 99—11)

3. The method of producing vitamins comprising suspending cholesterol in a liquid so as to produce an opalescent suspension and treating it with aspergillus oryzae.

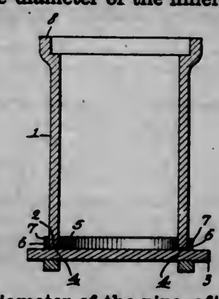
1,920,588
METHOD OF TREATING TOBACCO
August J. Pacini, Chicago, Ill., assignor to Charles M. Richter, New York, N. Y.
Application December 5, 1930. Serial No. 500,295
12 Claims. (Cl. 131—6)



1. The process of treating tobacco which comprises dampening said tobacco with water to which has been added a sauce and an agent which counteracts the opacity of constituents of said sauce, and irradiating said dampened tobacco.

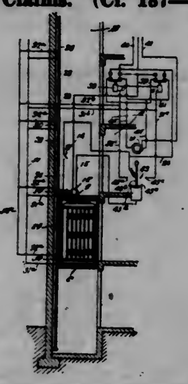
1,920,589
RING CUP FOR FICTILE PIPES
George Ralph Payne, Texarkana, Ark.
Application October 10, 1932. Serial No. 637,165
4 Claims. (Cl. 34—16)

1. A device for receiving the end of a fictile pipe, during drying, comprising a channel-shaped ring-cup including a base and inner and outer walls, the diameter of the outer wall being such that it will embrace the end of a green pipe closely, and the diameter of the inner wall being less



than the diameter of the pipe, after the pipe has dried.

1,920,590
SYSTEM OF CONTROL FOR ELECTRIC ELEVATORS
John Pedersen, St. Louis, Mo.
Application February 2, 1931. Serial No. 512,970
2 Claims. (Cl. 187—29)

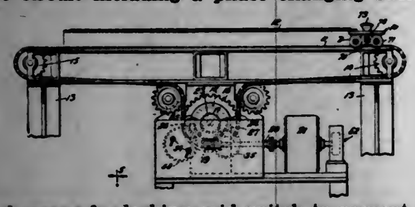


1. In an elevator, the combination of a car, an electric hoisting motor mechanism, a controller therefor including a car switch, direction switches and a car position controlled means to close the proper direction switch to level the car with a landing whether the car over-runs or under-runs the landing when the car switch is centered to the "off" position; said car switch, direction switches and position controlled means being in the circuit of the motor mechanism; and said position controlled means including elongated contacts arranged above and below the landing, an insulating section between the contacts and substantially level with the landing, together with a shiftable contact cooperable with said upper and lower contacts, said shiftable contact being mounted on the car for movement toward and away from said contacts and insulating sections and electrically operable means for shifting said contact arranged in circuit with the direction switches and controlled thereby to release the shiftable contact when the car switch is centered to the "off" position.

1,920,591
RECIPROCATING MECHANISM
Thomas Pesci, Raritan, N. J., assignor to the Cott-A-Lap Company, Somerville, N. J., a Corporation of New Jersey
Application July 5, 1932. Serial No. 620,968
19 Claims. (Cl. 164—73)

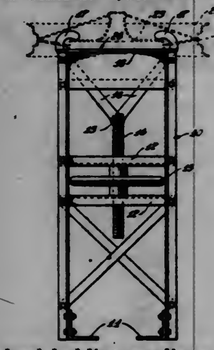
9. In an apparatus for reciprocating one mem-

ber across the path of a second member, an electric circuit including a phase changing switch,



and means for locking said switch to prevent its operation during movement of said first member.

1,920,592
WHEEL HOLDING DEVICE
John A. Peters, Highland Park, Ill.
Application May 31, 1932. Serial No. 614,581
2 Claims. (Cl. 144—288)



1. In a wheel-holding appliance, the combination of a supporting-frame having a slotted horizontal table at its top, an upright screw, a rotatable hand-wheel threaded onto said screw, means carried by said frame for supporting said hand-wheel and holding it against vertical displacement while permitting rotation of the hand-wheel to feed the screw up or down, and a pair of wheel-clamping members having hook-shaped top ends extended up through the slot means of said table, said members being pivotally connected at their lower ends to said screw in offset relation to one another thereby permitting the upper hook ends of the members to pass by one another thus allowing both of said hook ends to face either inwardly toward one another or outwardly from one another.

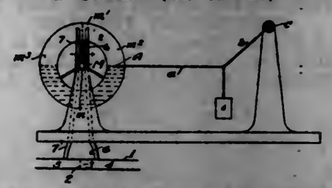
1,920,593
MEANS FOR AND METHOD OF DELIVERING MOLTEN GLASS CHARGES TO SHALLOW MOLDS
Karl E. Peiler, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware
Application September 25, 1931
Serial No. 565,071
9 Claims. (Cl. 49—55)

1. Apparatus for delivering charges of molten glass to molds having cavities formed with a horizontal dimension of greater extent than the depth of said cavities, comprising means for receiving a separated mold charge from a source of supply and for temporarily retaining said mold charge above and in parallel relation with the cavity of the mold for which said charge is intended, and means for operating said charge receiving and retaining means to release the charge as a unit without causing any substantial change



of shape thereof so that said charge may drop downward into said mold cavity.

1,920,594
RING BALANCE
Paul Rheinländer, Altena in Westfalen, Germany, assignor to Paul de Bruyn, Duesseldorf, Germany
Application September 16, 1931, Serial No. 563,134, and in Germany July 8, 1929
1 Claim. (Cl. 73—31)



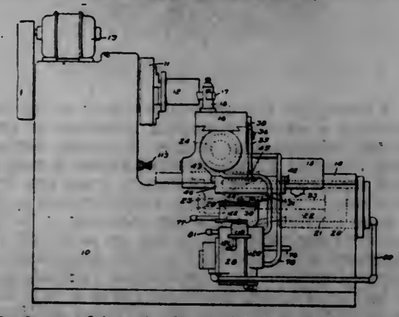
In measuring apparatus of the class described, in combination with a ring balance, a counterweight, a guide link connected to the ring balance and to the counterweight, and a guide link connected to the counterweight and to a fixed point, spaced from the ring balance, so that the weight is caused to move, when the ring balance is deflected, in a curved path outside the ring balance, to offer resistance to the movement of the ring balance.

1,920,595
CLOSURE FASTENER
Joseph B. Ruegg, San Francisco, Calif.
Application July 30, 1932. Serial No. 626,933
3 Claims. (Cl. 292—228)



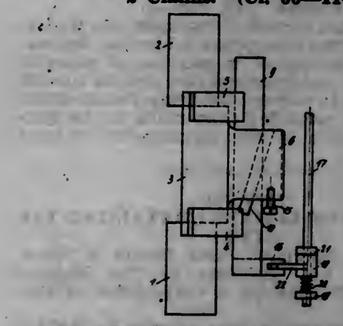
1. A closure fastener comprising a casing for attachment to the closure, said casing having two opposed walls one of which is formed with an opening, a latch passing loosely through said opening and projecting from said casing, the projecting portion of said latch having a portion at one of its sides to engage a striker, said latch having a T-head rockably received within the casing to allow pivotal movement of the latch, compression springs between said one wall of the casing and one side of said T-head, said springs holding the other side of said T-head against the casing side wall opposite said opening, said T-head having a corner at the side of the latch opposite said striker-engaging portion adapted to slide upon the last mentioned casing wall when the latch is rocked in releasing direction to cause slight movement of said striker-engaging portion away from the casing, and spring means in said casing for normally rocking said latch in the opposite direction.

1,920,596
HYDRAULIC ACTUATING AND CONTROL VALVE MEANS
Robert A. Schafer, Richmond, Ind., assignor to The National Automatic Tool Company, Richmond, Ind., a Corporation of Indiana
Application February 19, 1929. Serial No. 341,200
24 Claims. (Cl. 60—97)



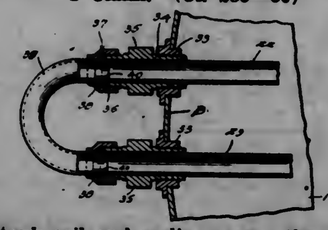
1. A machine tool combining a support; a major tool element movably mounted thereon; fluid pressure operating means therefor; a second major element mounted on said machine tool; fluid pressure operating means therefor; cam template means for at least one of said elements to guide the movements thereof; a single positively related control valve means including simultaneously shiftable piston valve for both said fluid pressure operating means; and means for operating said valve means to produce a predetermined machine cycle, said valve means being arranged to vary the rate of flow of liquid and thereby the rate of movement of said elements during a single cycle.

1,920,597
FLAT HOSIERY FRAME
Curt Scheller, Chemnitz, Germany
Application January 19, 1933, Serial No. 652,548, and in Germany June 20, 1932
2 Claims. (Cl. 66—114)



1. In a flat hosiery frame having needle bars subdivided in each section, the central portions of which are adjustable relative to the side portions, a slide for each central portion, said slide being displaceable in the direction of the needle row and supported relative to the side portions, a rib disposed on said slide at a slight angle obliquely to the needle row, companion ribs at the foot of the central portion, said companion ribs cooperating with said first rib and adapted to adjust the central portion of the section vertically to the needle row when said slide with the adjusting rib is displaced parallel to the needle row, a stopping device on said slide, and a counter stopping device on the sides of the central portion of the section, said counter stopping device being engaged by said first stopping device to limit the motion of the central portion when the needles thereof are in line with those of the side portions.

1,920,598
HEATING COIL
William H. Schirmer, Hibbing, Minn.
Application April 9, 1932. Serial No. 604,323
1 Claim. (Cl. 285—30)



A tank coil and sealing means therefor comprising a pipe having unthreaded end portions adapted to extend through and outwardly of a tank wall, a flanged member adapted to be secured to a tank wall, a threaded sleeve loosely engaging about an end of the pipe and having external threads engaging said flanged member, a seat formed on the outer end of said sleeve, an annular threaded member having one portion thereof of greater diameter than another portion, said other portion loosely engaging about a second pipe, a material between said two portions constituting a second seat, and an annular member having oppositely tapered peripheral portions interposed between said two seats and the abutting ends of the pipes to spread said ends and hold said ends against the seats upon inward movement of said angular threaded member relative to the sleeve.

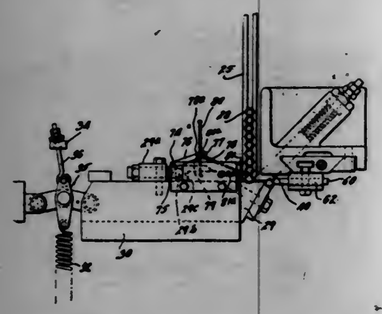
1,920,599
VAPORIZER
Charles F. Schuh, Lexington, Mass., assignor to The Cando Corporation, Cambridge, Mass., a Corporation of Massachusetts
Application September 13, 1932
Serial No. 632,935
4 Claims. (Cl. 167—3)



3. A vaporizing device of the character described comprising a relatively thin, flat disc of paper or other absorbent material impregnated with vaporizable material, said disc having a flaring portion, and a central opening adapted to receive the neck portion of an electric lamp bulb, said flaring portion extending outwardly and

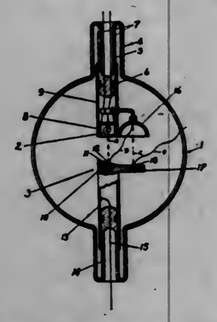
projecting annularly to provide a substantial area adapted to overhang the outer periphery of the bulb thereby affording an extended heat exposed surface.

1,920,600
MACHINE FOR FINISHING BOLTS AND SCREWS
Howard D. Simkins, East Cleveland, and Oliver P. De Lee, Cleveland, Ohio, assignors to The Superior Screw & Bolt Manufacturing Company, Cleveland, Ohio
Application May 31, 1928. Serial No. 281,966
8 Claims. (Cl. 10—165)



1. A machine of the class described comprising a chute for feeding blanks, means for receiving and moving the blanks from the end of the chute, and means controlled by said last-named means movable forwardly along the chute and for positively moving the blanks along the chute and thereby preventing the same from sticking in said chute.

1,920,601
ELECTRON DISCHARGE DEVICE
Charles Morse Slack, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania
Application July 31, 1928. Serial No. 296,489
11 Claims. (Cl. 250—35)



1. An electron discharge device comprising an envelope containing an electron emitting cathode, an anode disposed opposite said cathode, means for directing the electrons from said cathode upon said anode to produce X-radiations, a second cathode positioned to intercept a portion of said X-radiations and to produce secondary electron emission therefrom, and means for increasing the velocity of said secondary electrons.

1,920,602
CLAMP FOR TUBES, BARS, AND THE LIKE
Alfred Smallwood, Handsworth, Birmingham, England
Application September 11, 1930, Serial No. 481,289, and in Great Britain September 11, 1929
2 Claims. (Cl. 189—36)



1. A clamp for use upon tubes, bars or the like comprising a pair of clamping members of substantially semicircular shape in cross section hinged together along adjacent edges, a pair of spaced lugs extending outwardly from the free edge of one of said members, a bolt pivoted to the free edge portion of the other member to be received between said lugs, a nut on said bolt for engagement with said lugs to draw the clamping members together into embracing relation to a tube, bar or the like, the outer edges of said lugs being provided with inwardly directed stiffening and reinforcing flanges, the inner corners at the junction of the free edges of said flanges being disposed for engagement with the tube, bar or the like when the members are drawn into embracing relation therewith, and the inner ends of said flanges from said corners to the lugs being formed for clearance from the tube, bar or the like when the inner corners of the flanges are engaged therewith, whereby said inner corners are adapted to bite into and effectively grip the bar, tube or the like under the influence of the clamping pressure exerted upon the clamping members by the nut.

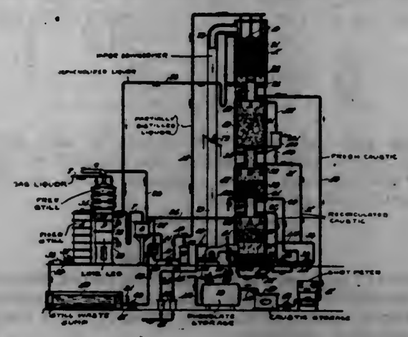
1,920,603
METHOD OF REVIVIFYING FOULED GAS PURIFYING MATERIAL
Frederick W. Sperr, Jr., Pittsburgh, Pa., assignor to The Koppers Company of Delaware, a Corporation of Delaware
Application October 23, 1928. Serial No. 314,528
4 Claims. (Cl. 252—2)

1. The method of revivifying spent gas purifying material which comprises subjecting the material to the action of a mixture of gases of combustion of carbonaceous fuel and air in such proportions as to prevent the temperature of the material being revivified from rising to the ignition temperature of the constituents of said material.

1,920,604
TREATMENT OF LIQUIDS CONTAINING TAR ACIDS
Frederick W. Sperr, Jr., and Joseph A. Shaw, Pittsburgh, Pa., assignors to The Koppers Company of Delaware, a Corporation of Delaware
Application January 9, 1931. Serial No. 507,618
20 Claims. (Cl. 260—154)

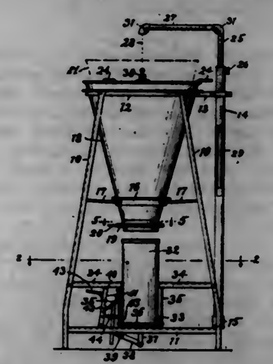
1. The process of treating a liquid containing tar acid which comprises recirculating gas through said liquid and through an absorbent for tar acids, and preventing contamination of

said absorbent with normally gaseous acidic im-



purities by chemically combining said impurities to form substantially insoluble compounds.

1,920,605
ICE CREAM MIXER
Edwin L. Steward, Conneaut, Ohio
Application August 13, 1932. Serial No. 628,697
7 Claims. (Cl. 226—100)

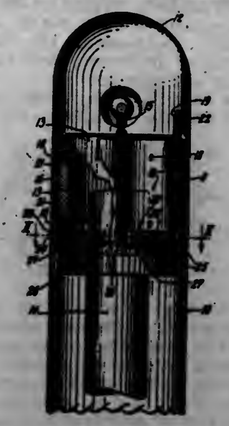


1. In apparatus of the class described, the combination of a hopper, a valve for controlling the discharge from the hopper, means for holding a receptacle in position to be filled from said hopper, and a revoluble partition member in said hopper for dividing the interior thereof into a plurality of compartments.

1,920,606
X-RAY CATHODE SHIELD
Nelson H. Stewart, Verona, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania
Application December 1, 1931. Serial No. 578,243
7 Claims. (Cl. 250—35)

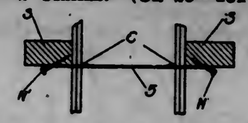
1. An X-ray tube including an envelope with a cathode, an anode and a screen therein, relatively thin supporting means bearing against the outer surface of said screen and against the inner wall of the envelope, and means associated with said screen and shielding from said anode

one edge of said supporting means facing said



anode to lower the potential gradient at the edge of said supporting means facing said anode.

1,920,607
TIE STRAP
Omar Summers, Seattle, Wash., assignor of one-half to Roman Yesse, Seattle, Wash.
Application July 1, 1929. Serial No. 375,903
2 Claims. (Cl. 25—131)



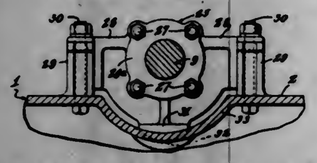
1. A tie strap for use with wooden concrete forms consisting of a strip of sheet metal intended for placement on edge in vertical kerfs; gauge lugs formed from the body of the strip, said lugs having considerable length and forming but a small angle where they leave the body of the strip and adapted to engage the inside wall of a form with the free ends of the lugs.

1,920,608
BATTERY CONNECTION
Dorsey Thompson, Philadelphia, Pa.
Application November 28, 1930
Serial No. 498,581
8 Claims. (Cl. 173—259)



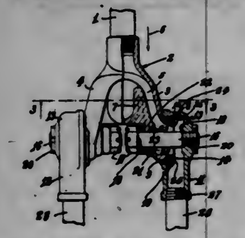
1. A device for connecting a cable to a terminal post of a storage battery comprising a U-shaped member having apertures in its arm portions adapted to engage the terminal post, and the loop portion thereof being adapted to receive the end of the cable, and a clamping member disposed between the arms of the U-shaped member having one surface engaging the terminal post and having another surface engaging the end of the cable and serving to clamp the end of the cable in the loop portion of the U-shaped member.

1,920,609
BEARING STRUCTURE
Edward Timbs and Daniel Ward Walters, Los Angeles, Calif., assignors to The National Supply Company of Delaware, New York, N. Y., a Corporation of Delaware
Application July 17, 1929. Serial No. 378,992
2 Claims. (Cl. 308—22)



1. In a bearing structure, the combination of a one-piece self-contained bearing housing having laterally extending arms and a depending arm formed integrally therewith, a supporting base having two spaced standards extending upwardly from said base beyond the horizontal center line of said housing, means on said base to engage the depending arm to restrain the housing from any axial movement, and means passing vertically through the laterally extending arms and the standards of said base to hold the housing to said base.

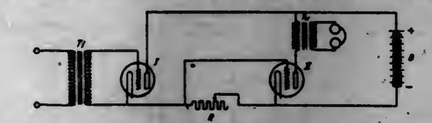
1,920,610
STEEL HOSE JOINT
Edward Timbs, Los Angeles, Calif, assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio
Application November 3, 1930. Serial No. 493,061
3 Claims. (Cl. 285—96)



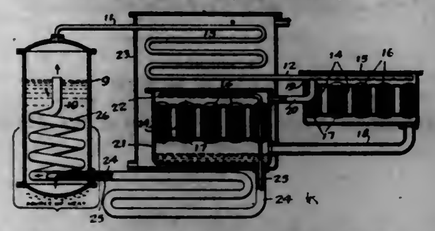
1. In a device of the class described, the combination of a coupling member providing a pair of spaced branches, a pair of coupling members adapted for connection to said branches, the said coupling members providing a path through the device for the flow of fluid, means for pivotally connecting the second said coupling members to said branches, the last said means including bolts extending transversely of the path of flow of fluid through said device, packing between each branch and its coupled member, and means adjusting said bolts to independently adjust said packing for each branch.

1,920,611
AMPLIFYING SYSTEM
Anton Leendert Timmer, Eindhoven, Netherlands, assignor to Radio Corporation of America, a Corporation of Delaware
Application October 3, 1929, Serial No. 396,991, and in the Netherlands October 4, 1928
6 Claims. (Cl. 179—171)

1. In an amplifier circuit a plurality of space discharge devices having cathode, anode and control electrodes, a source of potential, the cathode of one of said devices being directly connected to the control electrode of a following device, means for operating said control electrode at a positive potential with respect to the cathode of said last named device, a variable impedance connected between said control electrode and the low potential side of said source and means for connecting the anodes of both of said devices to a common point of high potential of said source.



1,920,612
REFRIGERATION
Baltzar Carl von Platen and Carl Georg Munters, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware
Application June 17, 1926, Serial No. 116,751
Renewed March 2, 1932
12 Claims. (Cl. 62—119.5)



1. The method of refrigerating which comprises separating methyl-amine in gaseous form from a solution thereof, condensing the methyl-amine, introducing the condensed methyl-amine into the presence of an auxiliary agent, and producing complementary diffusion of the methyl-amine and the auxiliary agent, absorbing the methyl-amine into solution and again separating methyl-amine from solution.

7. A method of refrigerating which comprises separating an amine in gaseous form from a solution thereof, condensing the amine, mixing the condensed amine with liquid isobutane, evaporating the liquid mixture, absorbing the amine into solution separating the isobutane from the solution, condensing the isobutane, again separating the amine from solution and condensing the same, and again mixing the amine and isobutane condensates.

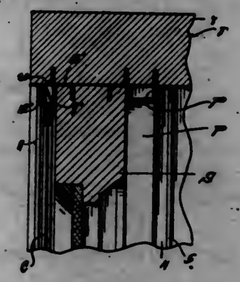
1,920,613
APPARATUS FOR MOVING MATERIAL
Fletcher L. Walker, Westwood, Calif.
Application November 5, 1928. Serial No. 317,329
11 Claims. (Cl. 254—166)



1. The combination of a tractor; a hoisting drum mounted thereon; a trailer; a hitch connecting the trailer with the tractor; a lifting lead on the trailer; and a cable extending from the drum through the lead and adapted to apply lifting force to a load, the line of the cable from the drum to the lead being below a line from the hitch to the lead.

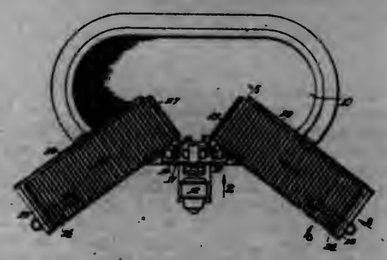
CARNEGIE LIBRARY OF ATLANTA

1,920,614
WINDOW STRUCTURE
Olaf L. Ware, Minneapolis, Minn.
Application May 24, 1930. Serial No. 455,387
2 Claims. (Cl. 20—11)



1. A strip for a window frame made from a single sheet of metal and comprising a reverted flange insertible within a slot in the window frame, flanges at opposite sides of said first named flange and substantially at right angles thereto, said second named flanges having contact with an outer face of a jamb, the outer longitudinal margins of the second named flanges being defined by outstanding flanges, one of said last named flanges intermediate its ends being provided with a notch to provide an entrance for a screen.

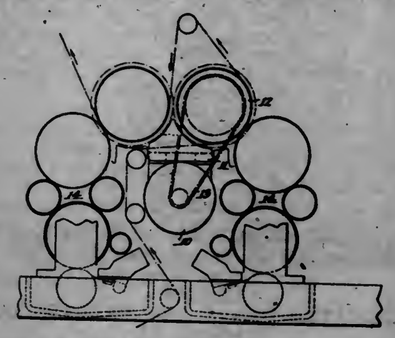
1,920,615
CONVEYER
Henry A. Wise Wood, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia
Application October 2, 1929. Serial No. 396,826
3 Claims. (Cl. 198—69)



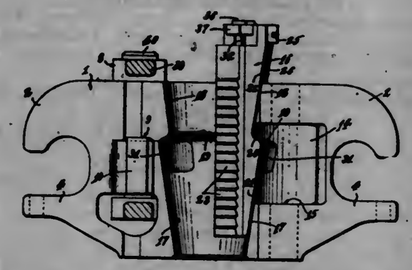
1. A conveyer for the purpose described, comprising an endless apron and means for operating it, a frame on which said apron is located inclined transversely so that objects on the conveyer will not have any tendency to be discharged over the high edge thereof, and a buffer plate along the low edge for insuring the delivery of the objects on the conveyer from a point at the end of said low edge.

1,920,616
PRESS UNIT DRIVE
Henry A. Wise Wood, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia
Application February 9, 1931. Serial No. 514,375
3 Claims. (Cl. 101—220)

1. In a printing press unit, the combination with the printing couples of a motor for operating the press located inside the press immediately beneath the printing couples, and means for driving one of the cylinders of the printing couples directly from the motor.



1,920,617
DOOR TYPE SLIP ELEVATOR
Forrest Joseph Young, Los Angeles, Spencer William Long, Redondo Beach, and John Shelby Morgan, Jr., Inglewood, Calif., assignors to The National Supply Company, Toledo, Ohio, a Corporation of Ohio
Application June 30, 1931. Serial No. 547,870
10 Claims. (Cl. 24—263)

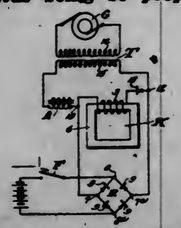


1. In a device of the class described, the combination of a body, a gate pivotally supported by the body, the body and the gate being formed to provide a tapered bore, tapered segmental slips mounted within the bore, means for yieldably supporting the slips, and yieldably mounted bumper pins carried by the segmental slips for seating the slips in pipe-engaging position within the bore of the elevator.

1,920,618
VOLTAGE REGULATING APPARATUS
Conrad H. Zierdt, Rosedale, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania
Original application October 12, 1928, Serial No. 312,048. Divided and this application October 25, 1930. Serial No. 491,197
1 Claim. (Cl. 171—119)

Voltage regulating apparatus for use with a source of alternating current connected with a load and an impedance interposed between the two, comprising, in combination with the foregoing elements, a reactor having an iron core provided with only a single winding the whole of which is connected in multiple with said load, and an asymmetric unit of the copper oxide type included in series with said windings, the parts

of said apparatus being so proportioned that



when normal voltage is applied to the load the flux density in said core is near saturation.

1,920,619

LAMINATED GLASS AND PROCESS OF MAKING IT

John C. Zola, Tarentum, Pa., assignor to Duplate Corporation, a Corporation of Delaware

No Drawing. Application March 3, 1931 Serial No. 519,898 4 Claims. (Cl. 49—81)

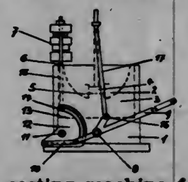
1. A laminated plate comprising a glass sheet, a sheet of cellulose ester plastic and a binder between the sheets comprising a polyhydric alcohol polybasic acid condensation resin having incorporated therein during polymerization a glycerol ester of a fatty acid.

1,920,620

DIE CASTING MACHINE

Gottlob Aichele, Nellingen, near Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany, a Company of Germany

Application May 4, 1932, Serial No. 609,193, and in Germany May 6, 1931 7 Claims. (Cl. 22—58)



1. In a die casting machine for casting machine bearing liners having opposed mould parts for clamping a bearing step placed between them, an abutment for the bearing step between said opposed mould parts, said abutment having a core member and adapted to co-operate with the opposed mould parts and the bearing step to form a mould to receive the liner metal, and means for forcing molten liner metal into the mould between the core member and the bearing step, actuating means for moving the said mould parts towards and away from one another and an operating lever operatively connected thereto and to the means for forcing the molten liner metal into the mould, so as to enable the mould-clamping and casting operations to be effected by a single operation of the said lever.

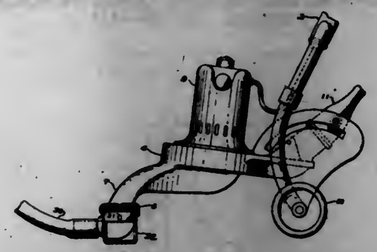
1,920,621

HOSE CONNECTER FOR VACUUM CLEANERS

George W. Allen, Hyde Park, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Mass., a Corporation of Massachusetts

Application May 19, 1930. Serial No. 453,842 15 Claims. (Cl. 15—9)

1. A hose connecter for a vacuum cleaner nozzle comprising a body portion having a bottom and side walls to enclose the cleaner nozzle, elastic material between the nozzle and said walls,



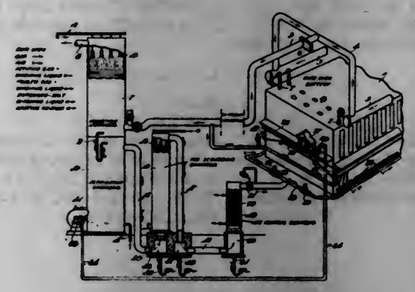
and means for securing the connecter to the nozzle.

1,920,622

GAS MANUFACTURE APPARATUS

Joseph Becker, O'Hara Township, Allegheny County, Pa., assignor to The Koppers Company of Delaware, a Corporation of Delaware

Application November 5, 1930. Serial No. 493,589 3 Claims. (Cl. 202—105)



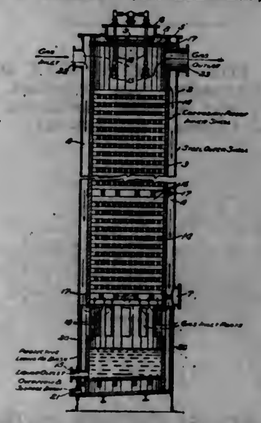
1. In combination, a coke oven battery having a series of alternate coking chambers and heating walls therefor comprising combustion flues arranged side-by-side in a row and having means adapted for supplying fuel gas to said combustion flues and regenerators for air adapted for supplying preheated air to said combustion flues for combustion of said fuel gas; a gas purification absorption chamber and an actification chamber; means for recirculating a liquid through said absorption chamber and thence through said actification chamber; means for conveying gas from coking chambers through said absorption chamber for contact with liquid recirculated therethrough; air inlet means adapted for supplying air into said actification chamber for contact with liquid recirculated therethrough; a scrubbing chamber communicating with said actification chamber for conveying the air therefrom and adapted for scrubbing of entrained salt with liquid from the air conveyed thereby; a heating chamber communicating with said scrubbing chamber for conveying the air therefrom and adapted for heating the air conveyed thereby to such a temperature as to prevent condensation of moisture from said air when supplied to said regenerators for air; and means for conveying air while hot from the heating chamber into said air regenerators for conveyance thereby to the combusiton flues of the heating walls.

1,920,623

GAS AND LIQUID CONTACT APPARATUS

Joseph Becker, O'Hara Township, Allegheny County, Pa., assignor to The Koppers Company of Delaware, Pittsburgh, Pa., a Corporation of Delaware

Application May 18, 1931. Serial No. 538,123 2 Claims. (Cl. 261—108)



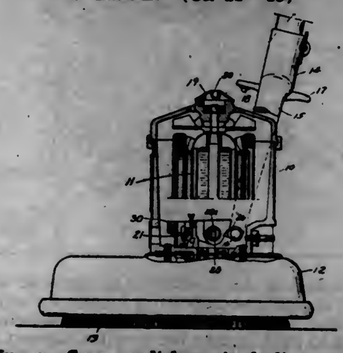
1. Apparatus for treating a gas with a corrosive liquid, comprising an outer steel shell, an inner wooden shell spaced from the outer shell and providing a gas passage between the two shells, said passage communicating with a gas inlet and with the interior of the inner shell, means for passing liquid and gas through the inner shell in contact with each other, a liquid outlet adjacent the bottom of the apparatus, the inner shell having a bottom spaced from the bottom of the outer shell to provide a seepage chamber for collecting corrosive liquid seeping from the bottom of the inner chamber, said seepage chamber being lined with corrosion resistant material and having an outlet.

1,920,624

FLOOR POLISHER

Tord Erik Daniel Bilde, Stockholm, Sweden, assignor to Inventia Patent-Verwertungs-Gesellschaft, Schaffhausen, Switzerland, a Corporation of Switzerland

Application December 23, 1929, Serial No. 415,961, and in Germany December 24, 1928 6 Claims. (Cl. 15—49)



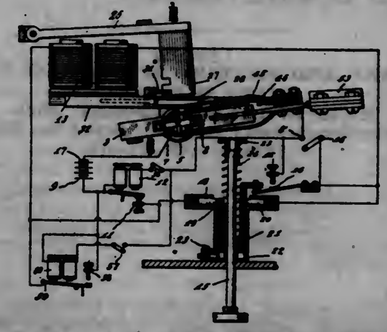
1. In a floor polisher including rotatable brush mechanism, a housing, a motor in said housing operatively connected to said brush mechanism, a handle pivotally mounted on said housing and an electric switch having a throw-arm; means for mounting said switch within said housing, a spring arranged to exert a force tending to hold said throw-arm in off position, a two-branch lever within said housing engaging said throw-arm with one branch and having a bearing surface on the other branch comprising a plurality of arcuate surfaces, a shaft connected to said handle extending through said housing, and an arm in said housing connected to said shaft and adapted to engage said bearing surface to close said switch when the handle is in inclined position and permitting said spring to open the switch when the handle is in substantially vertical position or substantially horizontal position.

1,920,625

ELECTRICAL DETECTION AND SEPARATION OF COINS FROM SUBSTITUTES

Turner D. Bottome, of Indianapolis, Ind.

Application April 17, 1931. Serial No. 530,898 16 Claims. (Cl. 194—100)



1. A check detector and separator consisting of an electrolyzing circuit and structure comprising an electrolytic cell, means for receiving a check in said circuit to act as an anode in said cell, a separate source of electrical current connected in said circuit, said current being of sufficiently great amperage to produce superpolarization of said anode during a limited time interval, and an electromagnet having an energizable armature, said electromagnet being electrically connected in and completing said electrolyzing circuit; means for short-circuiting said electromagnet during said limited time interval, then for opening said short-circuit; means for removing and for directing a check from said electrolytic cell, said directing means being controlled by the amount of amperage flowing through said electromagnet after said short-circuit has been opened to energize or not to energize said armature to direct the check to be retained or to be rejected depending upon the material of which the check is made.

1,920,626

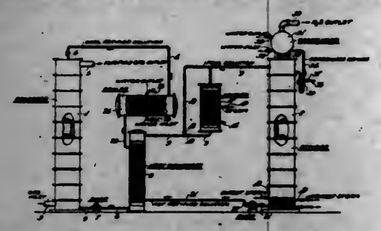
SEPARATION AND PURIFICATION OF GASEOUS MIXTURES

Gilbert A. Bragg, Pittsburgh, Pa., assignor to The Koppers Company of Delaware, a Corporation of Delaware

Application September 9, 1931. Serial No. 561,877 5 Claims. (Cl. 23—3)

1. The process of separating acidic gases such as H_2S, CO_2 and HCN from a gaseous mixture containing them, which comprises washing the

flowing gaseous mixture with an absorbent liquid, removing the absorbent liquid from the gas, heating it to drive off absorbed acidic gases and recirculating it over the flowing gaseous mixture for further absorption of acidic gases, said liquid comprising a solution containing alkali metal



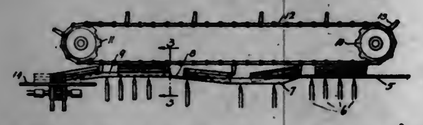
present in a compound or compounds having an alkaline reaction, and boron present as free boric acid or in combination with a portion or all of said alkali metal, the molar ratio of said alkali metal to said boron being from 0.75:1 to 0.40:1, calculated as ROH (where R represents alkali metal) and H_3BO_3, respectively.

1,920,627

MEANS AND METHOD OF COATING CONCRETE SILO BLOCKS

Walter O. Brassert, Kalamazoo, Mich.

Application January 12, 1931. Serial No. 508,107
9 Claims. (Cl. 91—70)



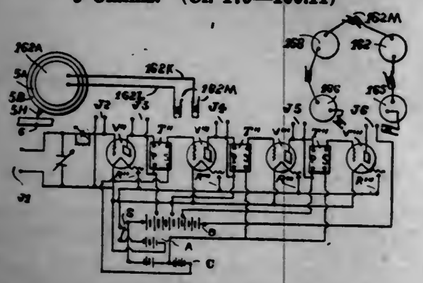
1. The method of proofing a preformed silo slab against ensilage acids and moisture which comprises heating one face of the slab to remove moisture, partially immersing the slab in molten paraffin or asphalt to coat and impregnate the heated face and then draining off excess paraffin or asphalt.

1,920,628

COMBINED RADIO AND PHONOGRAPHIC RECORDING AND REPRODUCING SYSTEM

John Bailey Browning, Camden, N. J.

Original application June 26, 1922, Serial No. 570,906, now Patent No. 1,743,706, dated January 14, 1930. Divided and this application February 18, 1927. Serial No. 169,306
9 Claims. (Cl. 179—100.11)



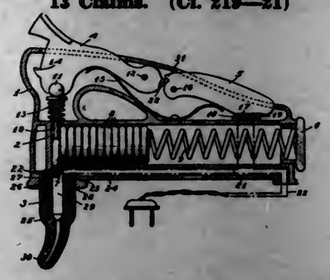
1. An apparatus of the class described, comprising a radio receiving set, an electrical reproducer for phonograph records, an audio frequency amplifier, electric circuits connecting said amplifier with the aforesaid devices, a loud speaker electrically connected to the output of said amplifier, phonograph record recording means, and means operatively connecting said loud speaker and said recording means whereby sound produced by the loud speaker may be simultaneously heard and recorded.

1,920,629

DEVICE FOR MELTING WAX DISKS

Gustave Chevassus, San Francisco, Calif.

Application May 10, 1930. Serial No. 451,472
13 Claims. (Cl. 219—21)



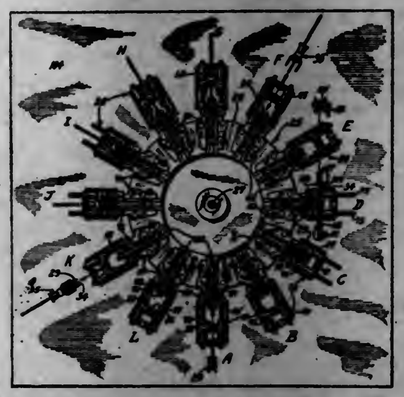
1. A device of the character described, comprising a casing having a chamber therein to hold a stack of meltable disks, said chamber having a disk outlet port therein; a nozzle separate from the chamber and in registry with the outlet port; means to eject disks, one by one, from the chamber into the nozzle; and means to heat the nozzle to melt the disk ejected thereinto whereby the melted material will flow from the nozzle.

1,920,630

AUTOMATIC ELECTRODE MOUNTING MACHINE

Robert W. Conn, Edgewood, R. I., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania

Application June 26, 1930. Serial No. 463,856
12 Claims. (Cl. 250—27.5)



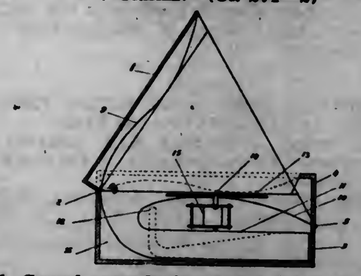
1. A machine for mounting a filament wire to support members comprising means for supporting a grid, means for shaping a filament wire within said grid, means for moving support members adjacent to ends of said shaped filament, and means for securing said ends to said support members.

1,920,631

SOUND AMPLIFYING HORN

Stavros Coumbopoulos, Paris, France

Application June 29, 1932, Serial No. 619,829, and in France July 21, 1931
7 Claims. (Cl. 274—2)



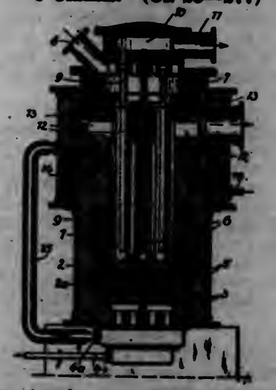
1. Sound reproducing apparatus comprising a box consisting of a fixed portion and a lid articulated thereto, fixed partial side walls extending a limited distance upward, upward extensions of the side walls extending between the partial fixed side walls and said lid when the box is open, means for locating said upward extensions of the side walls within the box when the same is closed, an amplifying sound conduit within the box below the level of the upward extensions of said side walls, and a fixed portion in said box facing the lid but spaced from the same, which sound conduit together with the space defined between said fixed partial side walls, fixed portion, upward extensions of the side walls and the lower side of said lid forms a practically integral and acoustically continuous sound amplifying horn whereof the section along the longitudinal axis of the horn varies in a predetermined manner according to the laws of the progressive amplification of sound and propagation of low frequency sound waves.

1,920,632

CONTRIVANCE FOR CARRYING OUT GAS REACTIONS AT HIGH TEMPERATURES

Joseph Daniels, Essen-Ruhr, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa., a Corporation of Delaware

Application August 3, 1931, Serial No. 554,822, and in Germany August 5, 1930.
6 Claims. (Cl. 23—277)



1. Apparatus for carrying out gas reactions at high temperatures comprising: an oven chamber having an outer enclosing wall of refractory material of relatively poor heat conductivity; a plurality of reaction tubes of highly refractory material and of relatively high heat conductivity extending downwardly into said oven chamber and closed to said chamber; gas offtake conduits within said tubes and communicating therewith for off-flow upwardly through said conduits of the reaction products from said tubes; means for leading gas to be treated into the tubes between the same and the conduits therein for flow downwardly to the lower end of the tubes; flameless combustion means for maintaining continuous passage of combustion gas of substantially flameless combustion in direct contact with the outer bottoms of said tubes; and gas off-flow means for flowing of said hot combustion gases in contact with the outer surfaces of the tubes substantially throughout their lengths.

1,920,633

MACHINE FOR LAYING OFF SURFACE CONTOURS TO SCALE

Charles B. Dannemberg and Harry Whittaker, Wilmington, Del.

Application March 26, 1931. Serial No. 525,496
6 Claims. (Cl. 234—8)



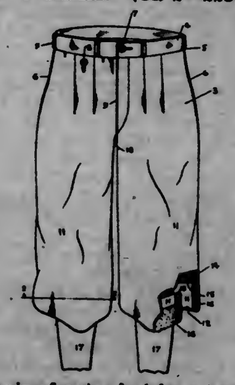
1. A machine for laying off road and other surface contours to scale, comprising an elongated substantially rigid member supported for vertical reciprocatory movement and having means upon one end to facilitate its movement in vertical position over the surface to be plotted, a marking element, mechanism coupling said elongated member with said marking element for translating movement at a reduced ratio from the member to the marking element, a chart engaged by and moved relative to the marking element in a path at right angles to the direction of movement thereof, and means for supporting the structure for movement in a horizontal path over the surface being charted.

1,920,634

OUTER KNICKERS

Harry C. D'Annunzio, Rochester, N. Y., assignor, by mesne assignments, to Fashion Park Manufacturing Corporation, a Corporation of New York

Application May 13, 1932. Serial No. 611,033
5 Claims. (Cl. 2—228)



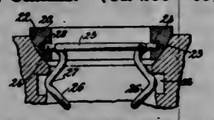
1. In a pair of outer knickers two leg elements having lower open ends and means whereby they

hang free from contact at the knee in simulation of the usual knee fastened and draped knickers comprising a complete ring of flexible padding in the lower ends of each of said leg elements.

1,920,635
GASKET-ATTACHING MEANS

Frank W. Dearborn, Brooklyn, N. Y., assignor to Gold Car Heating & Lighting Company, Brooklyn, N. Y., a Corporation of New York

Application December 7, 1932. Serial No. 646,115
4 Claims. (Cl. 285—69)

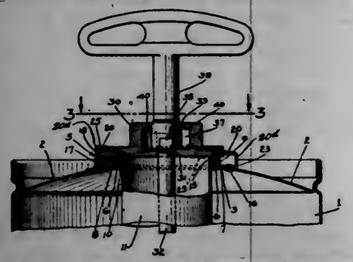


2. A gasket having an attaching element closely following its inner surface, said attaching element having pivotal connections with the gasket at substantially diametrically opposite points, an intermediate movement-limiting portion and intervening resilient attaching fingers extending rearwardly and substantially perpendicularly with respect to the face of the gasket, the portion of the gasket adjacent the movement-limiting portion of the attaching element having spaced stops to determine the range of swing of the movement-limiting portion of the attaching element and its attaching fingers.

1,920,636
SPRAYER CONSTRUCTION

Nicholas W. De Frees, Hastings, Minn., assignor to H. D. Hudson Manufacturing Company, Chicago, Ill., a Corporation of Minnesota

Application February 18, 1931. Serial No. 516,676
9 Claims. (Cl. 221—77)



1. A device of the class described comprising a tank, having an opening, an annulus having a wall engaging the tank wall and overlying the opening, that part of the annulus wall which overlies the tank opening having an opening, a gasket surrounding the annulus opening, a cylinder passing through the gasket and annulus opening and having a flange engaging the gasket, a piston rod for the cylinder, a cap traversed by the piston rod, said annulus and cap having means cooperable to cause said cap to press the flange against the gasket when the cap is rotated, means by which rotation of the rod rotates the cap, and means sealingly securing the tank wall-engaging portion of said annulus wall to said tank wall.

1,920,637
DEVELOPMENT OF OIL FIELDS

Henry L. Doherty, New York, N. Y.

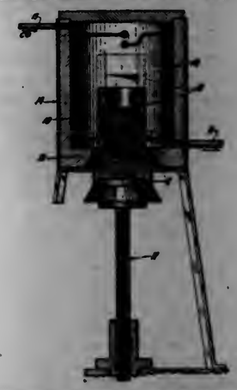
No Drawing. Application September 5, 1925
Serial No. 54,817
5 Claims. (Cl. 166—21)

1. A method of producing oil from an underground oil body under gas pressure comprising, shutting-in wells projecting into the oil body when the ratio of gas to oil produced reaches a predetermined point, rapidly building up a localized gas pressure in the region surrounding each well by pumping a gaseous fluid into the individual wells, opening the wells simultaneously to effect a sudden drop in pressure in the region of each well, and allowing oil and gas again to flow through the wells.

1,920,638
METHOD OF PREPARING OXIDE FREE METAL CONTAINING NO VOIDS

Frank H. Driggs, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania

Application February 6, 1932. Serial No. 591,299
11 Claims. (Cl. 75—62)



5. The method of producing a cuprous oxide free copper body substantially free from voids, comprising fusing a metallic copper mass, progressively solidifying said mass in a preferred direction while maintaining a portion thereof in a molten condition, reducing the cuprous oxide present in said molten portion, said progressive solidification taking place in said preferred direction with a portion of said mass on the forward side of said direction being the last increment thereof to solidify and maintaining the quantity of oxide present in said molten mass below 3.6% during substantially the entire solidification operation.

1,920,639
COMPOSITION OF MATTER FOR USE IN TREATMENT OF DISEASES OF THE SKIN

Olaf Haraldson, Minot, N. Dak.

No Drawing. Application July 8, 1930
Serial No. 466,578
3 Claims. (Cl. 167—63)

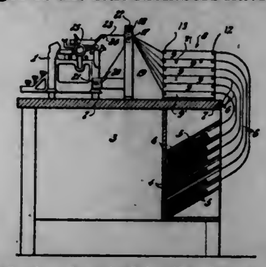
1. A medicinal salve for the treatment of skin diseases of fungus origin, comprising a paste containing uncombined formaldehyde and a colloidal vehicle which retains the formaldehyde until liberated by the body heat, said vehicle containing a sufficient quantity of glycerine to prevent too rapid drying of the paste until the same is applied to the skin, but insufficient to prevent liberation of formalin gas to the skin when a thin layer of the paste is subjected to body heat.

1,920,640
CARBON COPYING SYSTEM

Edward Hane, Holyoke, Mass.

Application October 22, 1930. Serial No. 490,457
2 Claims. (Cl. 197—126)

1. As an article of manufacture a tray for the purpose described, comprising bottom and side members secured thereto, rods mounted for rotation in the opposite ends of the side members, the upper edges of the side members having openings,

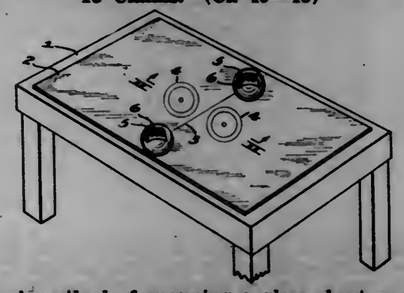


and dowel pins located in the lower edges of the side members, whereby several trays may be stacked one above the other.

1,920,641
PROCESS AND APPARATUS FOR SEPARATING GLASS SHEETS

Herman S. Heichert, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania

Application July 13, 1932. Serial No. 622,243
13 Claims. (Cl. 49—48)

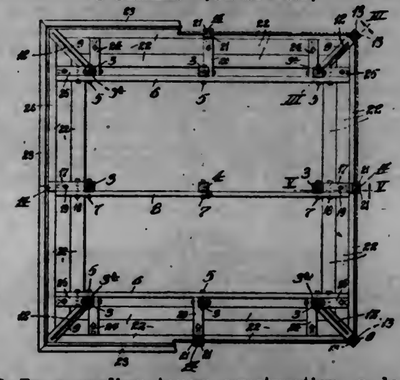


1. A method of snapping a glass sheet scored on its upper face which consists in applying a lifting force to the upper surface of the sheet adjacent the line of scoring.

1,920,642
COOLING TOWER CONSTRUCTION

William J. Hoffmann, St. Louis, Mo., assignor to Lilie Hoffmann Cooling Towers, Inc., St. Louis, Mo., a Corporation of Missouri

Application October 18, 1929. Serial No. 400,503
8 Claims. (Cl. 20—0.5)

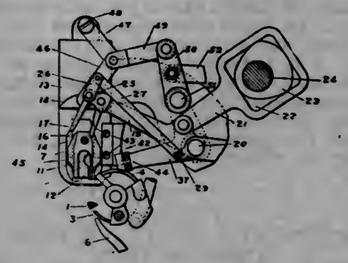


8. In a cooling tower construction, a louvre having right angle corners and comprising corner uprights, an outwardly and upwardly diagonally diverging post extended from each upright, and side boards having end engagement with said posts.

1,920,643
SEWING MACHINE

Otto F. Hoppe, Frankfort-on-the-Main, Germany, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey

Application February 13, 1931, Serial No. 515,500, and in Great Britain February 25, 1930.
10 Claims. (Cl. 112—37)

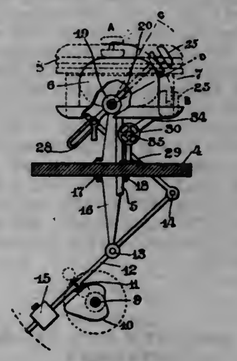


1. In a sewing machine, the combination with a curved hook needle of a stationary bobbin case, a loop spreader comprising two fingers, means for moving the fingers to cause them to engage the needle loop and for moving them relatively to each other to spread the loop, a loop taker comprising a hook, and means for actuating the loop taker to cause its hook to take the loop from the fingers and move about the bobbin case.

1,920,644
HAT FINISHING MACHINE

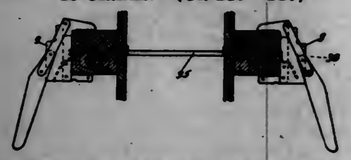
James H. Johnson, Columbus, Ohio

Application November 5, 1929. Serial No. 405,001
4 Claims. (Cl. 223—30)



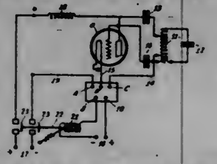
1. In a hat finishing machine, an ironing tool adapted to iron both the crown and the brim of a hat, a walking beam carrying a swinging ironing tool and a spring for drawing said swinging ironing tool toward the hat, means for actuating said walking beam including a lever and a cam for actuating the same, a link connecting said lever and the walking beam, the means connecting said link with the walking beam being adjustable whereby the stroke of the iron can be varied to iron either the crown or the brim.

1,920,645
CONCRETE FORM CONSTRUCTION APPARATUS
Paul A. Jones, Cincinnati, Ohio
Application March 4, 1930. Serial No. 433,034
13 Claims. (Cl. 140—117)



1. A clamp for concrete forms comprising in combination a body, a pair of jaws and an operating handle having a pivot, one of said jaws fixed to said body, the other of said jaws having means whereby it is slidable in said body so as to be moved toward or away from the other jaw, a link operatively connecting said slidable jaw with said operating handle, and adjustable means for mounting the pivot of said operating handle on said body at different effective points.

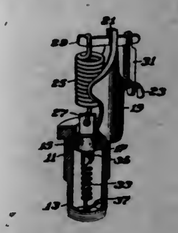
1,920,646
PROTECTIVE RELAY FOR TUBE TRANSMITTERS
Fred H. Kroger, Ridgewood, N. J., assignor to Radio Corporation of America, a Corporation of Delaware
Application July 18, 1929. Serial No. 379,167
3 Claims. (Cl. 250—17)



1. Protective means to be used with radio apparatus including a thermionic tube having a circuit including a source of potential connected with the output electrodes thereof and a circuit connected with the input electrodes thereof comprising, means for maintaining the ratio of current in said circuits at a predetermined constant value including a thermal element in each of said circuits, said thermal elements each having one end fixed and the free ends united physically by a pivoted element, the position of which depends on the relative length of the element, a pair of circuit closing contacts adjacent said pivoted element, a switch in said circuit including said source of potential, and a relay having an armature connected with said switch and an actuating winding connected with said contacts and said pivoted element.

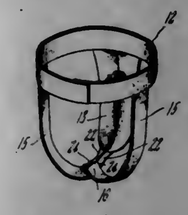
1,920,647
SIPHON BREAKER FOR OIL BURNING SYSTEMS
Harry E. Lake, Brookline, Mass.
Application June 24, 1930. Serial No. 463,377
6 Claims. (Cl. 137—161)

1. A siphon breaker for oil burning systems comprising a casing provided with means for connecting it with and in communication with a suction fuel line, and provided with an air inlet aperture, a valve normally closing said air inlet aperture, and located with respect thereto in position to be acted on by the suction in the fuel line in a direction to open the valve, securing means including a fusible link for holding said valve seated against the suction in the fuel line, and means acting on the valve in the same direction



as the suction on the fuel line, and co-operating therewith for positively insuring the unseating of said valve on the fusing of the fusible link.

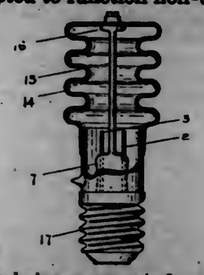
1,920,648
ATHLETIC SUPPORTER
Charles K. Lane, Rockland, Mass.
Application January 26, 1933. Serial No. 653,575
1 Claim. (Cl. 128—160)



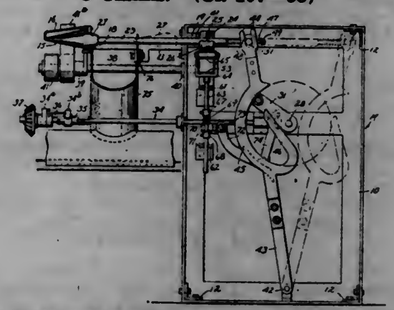
An atheletic supporter including a waist band, a pouch depending from the front portion of the waist band, buttock straps depending from the side portions of the waist band, said waist band, pouch and buttock straps being of woven fabric, the lower ends of said straps being overlapped and stitched together to form a laminated rectangular flexible rear crotch pad member adapted to bridge and conform to the lower portion of the wearer's rump crease, and conform to the rear portion of the crotch, and a narrow oblong compressible forward crotch pad member composed of a blank of compressible sheet material having a body portion and ears folded over and stitched to the body portion, and provided with obliquely extending end edges exposing seats for the pouch and the rear pad member on the ends of the body portion, the lower end of the pouch and a corner portion of the rear crotch pad member being stitched to said seats, the supporter being characterized by the facts that the layers of the rear crotch pad member are integral with the buttock straps, and the area of the blank from which the forward crotch pad member is formed is reduced to a minimum.

1,920,649
HIGH AMPERAGE RECTIFIER
Ernest Anton Lederer, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania
Application November 13, 1924
Serial No. 749,594
2 Claims. (Cl. 250—27.5)

1. An electrical discharge device comprising an envelope, a gaseous filling, at least one anode and a cathode adapted to function non-thermionically, said cathode being corrugated and surfaced at least in part with alkali metal.

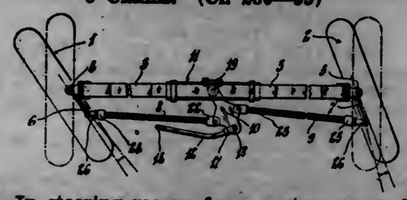


1,920,650
CONE MACHINE
Abraham Levy, Brooklyn, N. Y.
Application December 7, 1932. Serial No. 646,121
5 Claims. (Cl. 107—58)



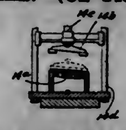
5. In a cone making machine, the combination of a plurality of spindles having conical mandrels at adjacent ends thereof, a plurality of conical molds, means for reciprocating said spindles in sequence for moving said mandrels in and out of engagement with said molds successively, a continuously driven belt disposed transversely of said spindles, a collar fixed adjacent the rear end of each spindle, and means for pressing portions of said belt against said collars for rotating each spindle when the mandrel portion thereof is within its respective mold, the annular edge of each collar on the side thereof adjacent the mandrels being beveled as and for the purpose described and specified.

1,920,651
STEERING ARRANGEMENT FOR MOTOR CARS
Donald Gordon Mackenzie, Montreal, Quebec, Canada
Application February 6, 1931, Serial No. 513,833, and in Great Britain February 10, 1930
8 Claims. (Cl. 280—95)



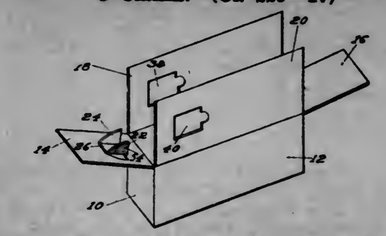
1. In steering means for a motor car or like vehicle, an axle formed of upper and lower grouped spring leaf members spaced and bracketed centrally and at the ends, a pivot bearing within the central bracket, wheels pivoted to the end brackets knuckle arms secured to the wheel structures, connecting rods extending from said knuckle arms, a bell crank pivotally secured on either side to said connecting rods, and an operating rod suitably connected thereto.

1,920,652
METHOD OF HEATING, HARDENING, AND TEMPERING OF HOLLOW STEEL PROPELLER BLADES
James H. McKee, Pittsburgh, Pa., assignor to Pittsburgh Screw and Bolt Corporation, a Corporation of Pennsylvania
Application April 5, 1932. Serial No. 603,259
4 Claims. (Cl. 148—21)



1. The method of hardening and tempering tubular propeller blades which consists in heating a blade to a temperature of approximately 1650 to 1700° F., quenching the heated blade, applying a continuous pressure to succeeding transverse sections of the blade during the quenching operation, reheating the blade between a temperature of 900 to 1200° F., and then cooling the blade slowly while applying pressure to succeeding transverse sections thereof.

1,920,653
CARTON SPOUT
William B. McLaughlin, San Francisco, Calif., assignor, by direct and mesne assignments, to Fibreboard Products Inc., San Francisco, Calif., a Corporation of Delaware
Application April 14, 1930. Serial No. 444,336
3 Claims. (Cl. 229—17)

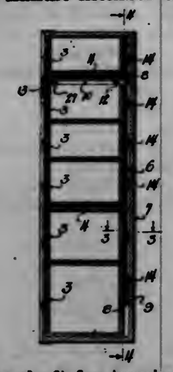


1. A carton comprising a flap having a portion thereof foldable to provide a spout, and a second flap overlying the first flap and having a portion separable therefrom so that the same may be removed independently of the spout prior to folding out the spout portion, the portion removed from the second flap providing an aperture thru which the spout may extend, and a third flap overlying the second flap and having a portion separable therefrom, the portion removed from the third flap providing an aperture in register with the aperture of the second flap.

1,920,654
DRAWER LOCKING MECHANISM FOR TRUNKS
Frank W. Meyer, Oshkosh, Wis., assignor, by mesne assignments, to Oshkosh Trunks, Inc., Oshkosh, Wis., a Corporation of Wisconsin
Application February 3, 1930. Serial No. 425,536
5 Claims. (Cl. 45—94)

1. The combination with the drawer section of a trunk having a tier of slidable drawers there-

in of a locking mechanism arranged in the section to the rear of the drawers for simultaneously locking or unlocking them, a shaft rotatably supported in the section between two of the drawers and connected with the locking mechanism for actuating it, a handle member connected to the



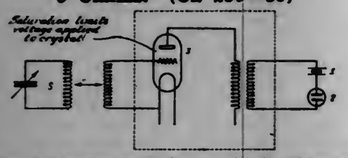
outer end of the shaft for turning it, said handle member being accessible and operable at all times from the exterior of the drawers whether locked or unlocked, and means whereby the handle member may be held against accidental movement when in drawer unlocking position.

1,920,655

OVERLOAD PROTECTION MEANS FOR PIEZO-ELECTRIC CRYSTALS

Fritz Michelssen, Berlin, Germany, assignor to Telefunken Gesellschaft Für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany

Application May 24, 1928, Serial No. 280,206, and in Germany June 25, 1927
5 Claims. (Cl. 250—39)



1. An arrangement to protect piezo-electric crystals from overloads, characterized by the feature that a limiting tube is connected effectively in series with the crystal for radio frequencies applied thereto which limiting tube is adjusted to become saturated upon presence of excessive voltages, thereby limiting the voltage applied to the crystal to a safe value.

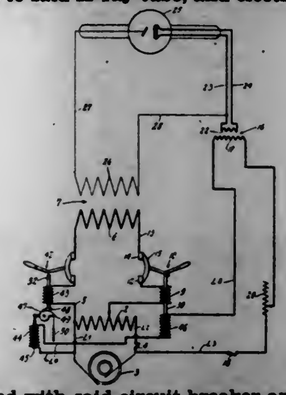
1,920,656

AUTOMATIC ADJUSTMENT OF CIRCUIT BREAKERS

Montford Morrison, Montclair, N. J., assignor to Westinghouse X-Ray Company, Inc., a Corporation of Delaware

Application December 31, 1930. Serial No. 505,789
4 Claims. (Cl. 250—34)

1. In an X-ray system, an X-ray tube, a high tension transformer for energizing said X-ray tube, a source of energy for said high-tension transformer, a circuit breaker interposed between said source and said high tension transformer responsive to the occurrence of abnormal conditions in said system for disconnecting said high tension transformer from said source, a low tension transformer for supplying heating currents to said X-ray tube, a rheostat connected to said low tension transformer for varying the current supplied to said X-ray tube, and electrical means



associated with said circuit breaker and in series with said rheostat for adjusting said circuit breaker in response to operation of said rheostat.

1,920,657

REEL FOR FILMS AND OTHER FLEXIBLE MATERIAL

Kurt Morsbach, Berlin-Grunewald, Germany, assignor to Projector G. m. b. H., Berlin, Germany, a Corporation of Germany

Application March 19, 1931, Serial No. 523,698, and in Germany March 25, 1930
3 Claims. (Cl. 242—74)



1. A reel for flexible strips, comprising two disks, a hollow core connecting said disks and provided with a peripheral opening, a securing device for the leading end of the film, said securing device being movable between said disks and through said peripheral opening of the core into the interior thereof whereby said securing device may be brought either into the interior of the core or to a position at the periphery of the reel disks, and a pivoted arm carrying said securing device and located externally on one of said disks, this disk being provided with a slot concentric with the pivot of said arm and extending from the peripheral portion of such disk into registry with, and inwardly beyond, the peripheral opening of the core.

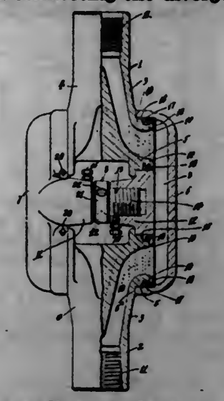
1,920,658

PRESSURE PACKED SWING JOINT

Demery Ambrose Murphy, Torrance, and Arthur Judson Hodge, Lomita, Calif., assignors to The National Supply Company, Toledo, Ohio, a Corporation of Ohio

Application December 12, 1930. Serial No. 501,866
5 Claims. (Cl. 285—18)

1. In a pressure packed swing joint, the combination of a pair of similar coupling members having diverging fluid passages formed therein, and a pair of transverse trunnions formed at their ends through which said diverging fluid passages extend, a pair of heads adapted to connect the trunnions of said coupling members so as to permit relative pivotal movement of said trunnion members, the heads having fluid passages therein connecting the divergent fluid pas-



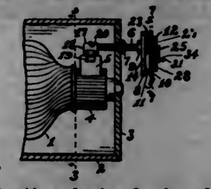
sages of the coupling members on opposite sides of the swing joint, jack receiving sockets terminating short of said passages in the opposed faces of said heads and a jack engaging said sockets for drawing said head members together over their respective trunnions.

1,920,659

DEVICE FOR INDICATING WEAR OF BRUSHES

Elton T. Naylon, East Cleveland, Ohio

Application June 29, 1932. Serial No. 619,858
12 Claims. (Cl. 116—114)



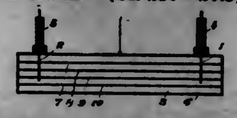
1. In an indicating device for brushes, the combination with a brush of a pivotally supported means adapted to move as the brush wears away, and means actuated by the first mentioned means for indicating the movement thereof.

1,920,660

GLOW DISCHARGE RECTIFIER WITH HOLLOW CATHODES

Johannes Nienhold, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany

Application December 16, 1932, Serial No. 647,553, and in Germany August 27, 1931
1 Claim. (Cl. 250—27.5)



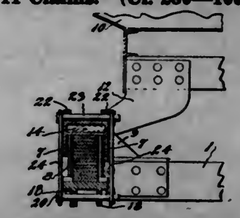
A rectifier of the glow discharge type comprising an evacuated envelope containing a rarified atmosphere, a plurality of anodes, a hollow cathode, conductive means forming part of said cathode and positioned therein subdividing the hollow space between the anodes within the cathode into a plurality of interstices, the width of said interstices being substantially small enough to prevent the direct passage of electrostatic lines of force between said anodes at the pressure conditions prevailing within said envelope.

1,920,661

SPRING SUSPENSION

Ralph T. Osman, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation

Application May 29, 1930. Serial No. 457,214
11 Claims. (Cl. 280—106.5)



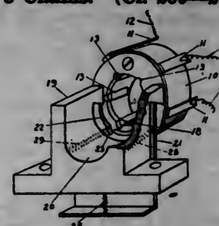
1. In a vehicle of the class described, a main frame, a pair of endless belt supporting traction frames pivoted adjacent one end to the main frame, a U-shaped inverted transverse channel member secured to the main frame at one end and provided with a hollow bearing member adapted to receive a lubricant, a spring pivotally carried with respect to said bearing member and housed by said housing, said spring extending into said traction frames, and bearing members carried by said traction frames for engaging the ends of the spring.

1,920,662

RADIOTUBE BASE PIN LOCATING DEVICE

Hugo Palm, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania

Application December 8, 1928. Serial No. 324,749
3 Claims. (Cl. 250—27)



1. A device for receiving and adjusting a radio tube having a plurality of contact elements, comprising a socket, a support adjacent to said socket, a guide plate having a notch intermediate said support and said socket, said guide plate being arranged to engage the contact elements of said tube means for rotating said tube to dispose a contact element thereof in the notch in said guide plate and means for moving said tube toward said socket.

1,920,663

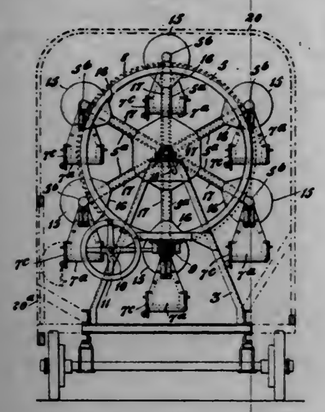
VEHICLE FOR COLLECTING CONTAINERS

Raymond Guy Palmer, Sherbourne Hill, Warwick, England

Application November 28, 1930, Serial No. 498,692, and in Great Britain January 6, 1930
3 Claims. (Cl. 211—146)

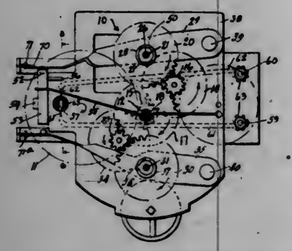
1. A vehicle for collecting containers embody-

ing standards supported from the vehicle at each end thereof, wheel members supported from and rotatably mounted relatively to said standards, a plurality of trays pivotally suspended form the wheel members at equi-distantly spaced intervals so that the trays tend to remain in a vertical position under the action of gravity, said trays each being adapted to receive a number of con-



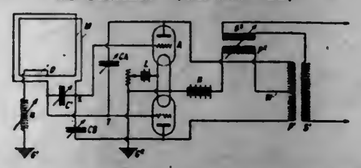
tainers, means for bringing the trays successively into a loading and unloading position, a braking means in conjunction with each tray for restraining the pivotal movement of the trays and thus preventing their swinging relatively to the wheel members while loading and unloading and when the vehicle is in transit, and a common actuating member for effecting the simultaneous operation of the braking means when required.

1,920,664
TIME SWITCH
Benjamin Perrone, Woodside, and Frank Santoro, New York, N. Y.
Application September 22, 1932
Serial No. 634,268
4 Claims. (Cl. 200—39)



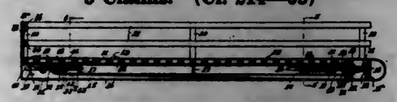
1. In combination with an alarm clock, having a pair of slidable alarm release gears, a spring lever controlled by each of the said gears, a pair of electric terminals in electric circuit, a pivotally mounted arm, a contact pin thereon, a projection on each of the said levers for engagement with the said arm to rotate same about its pivot to engage or disengage the terminals when the gears are slid to release the spring, a roller on each of the said levers, and a plane so arranged with respect to the rollers as to lift the lever projections out of the path of the arm after the said arm has been so rotated.

1,920,665
SYMMETRICAL LOOP RECEIVER
Harold O. Peterson, Riverhead, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware
Application April 2, 1925. Serial No. 20,052
20 Claims. (Cl. 250—11)



1. A method of developing oscillations consisting of balancing the oscillations in a loop by dividing the loop circuit into symmetrical circuits, conducting the oscillations from either side of the loop to an element of a thermionic relay, and by-passing part of the oscillations to a different element of another thermionic relay, whereby the local oscillations set up by either thermionic relay are neutralized.

1,920,666
ROLLING SHELF
Floyd J. Powell, Marshall, Mo., assignor to Ullin A. Burnett, Marshall, Mo.
Application May 9, 1932. Serial No. 610,291
8 Claims. (Cl. 214—65)



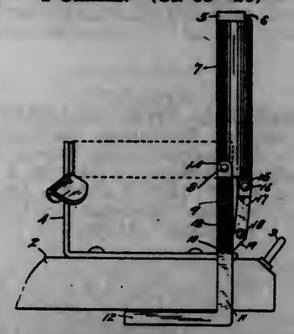
1. In a rolling shelf unit, a rectangular body frame, endless belt means on said body frame, a movable platform element comprising transverse slat members respectively secured to said endless belt means whereby to be movable the one by and with the other, means on said body frame for slidably supporting the opposite end portions of said platform slat members movably thereon separately from said endless belt means, and separate endless belt means connected to said platform element for moving said platform element and said first mentioned endless belt means in their connected relation.

1,920,667
ROTARY BRUSH
Rudolf R. Radinse, Avon Lake, Ohio
Application February 1, 1933. Serial No. 654,584
3 Claims. (Cl. 15—179)



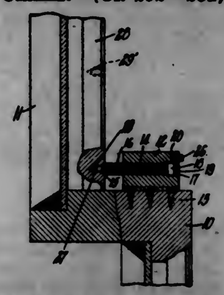
3. A rotary brush comprising a circular disk having tongues projecting therefrom, looped brush units engaged by said tongues, and clamping plates at opposite sides of the disk, between the rims of which the loops are clamped, the tongues extending through openings in the plates and being bent down upon the outer sides thereof.

1,920,668
SAFETY SADIRON
Thomas L. Reed, Los Angeles, Calif.
Application January 29, 1932. Serial No. 589,678
4 Claims. (Cl. 68—26)



1. A sadiron body having a heating means and provided with a swinging handle, manually set handle locking means to retain the handle in a lowered position for operating the iron, and prop means connected to the iron body and to the handle and including a spring device interposed between the handle and an element of the prop whereby the handle is automatically opened to an erect position unusable for ironing operation of the iron.

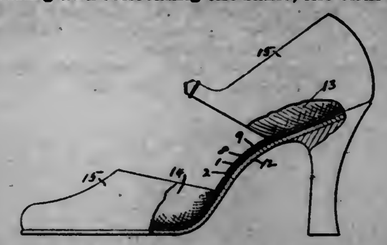
1,920,669
LOCK FOR WINDOW SASHES AND DOORS
Joseph A. Riccelli, Cambridge, Mass.
Application July 8, 1932. Serial No. 621,327
3 Claims. (Cl. 292—251)



1. A window sash and door lock having, in combination, a bracket adapted to be fastened to the lower sash of a window or to a door, a locking screw having screw-threaded engagement with said bracket, said screw having an annular groove in its periphery, a stop slidably mounted in said bracket above said screw and adapted to enter said annular groove when the screw is in an advanced position and lock it against longitudinal movement, and means having screw-threaded engagement with said bracket to lock said stop in said annular groove.

1,920,670
FABRIC ENVELOPE COVERED METAL SHANK FOR SHOES
Herbert H. Reese, Rochester, N. Y.
Application December 16, 1931. Serial No. 581,423
2 Claims. (Cl. 36—76)

1. A metal shank stiffener for shoes, including an elongated body, and a flattened tube having continuous seamless walls of a material pervious to cement and provided with a longitudinal opening receiving the elongated body and completely covering and concealing the same, the ends of the



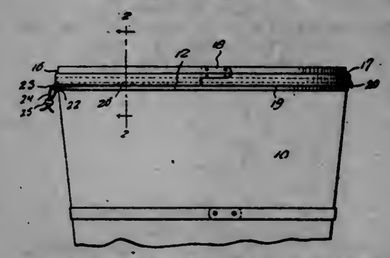
tube being extended beyond the ends of the body to form terminal cementing attaching portions and collapsed and sealing the body within the tube.

1,920,671
APPARATUS FOR MAKING MEDLEY PICTURES
James W. Anderson, Berkeley, Calif., assignor to Anderson Manufacturing Company, Hollywood, Calif., a Corporation of California
Application April 25, 1930. Serial No. 447,206
5 Claims. (Cl. 88—24)



1. In a device of the type described, a timer, a source of light, a holder for a series of negatives comprising a sheet of imperforations therein, one for each negative, means to hold each negative at an opening, a lens, a vignetter comprising an opaque sheet having a series of openings therein, one for each negative, said openings in said vignetter corresponding in position to said openings in said negative holder, and means to hold a photographically receptive medium.

1,920,672
RECEPTACLE CLOSURE
Tonnes C. Andersen, Ruthton, Minn.
Application March 17, 1931. Serial No. 523,310
4 Claims. (Cl. 217—76)



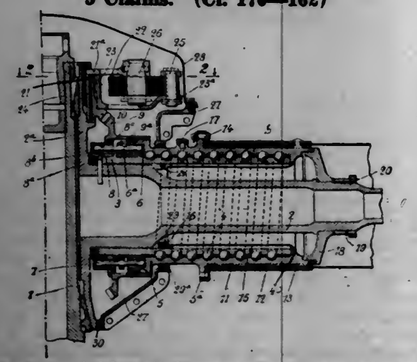
1. In combination, a wooden receptacle having a grooved upper edge, a band surrounding the receptacle and having a groove to be received in the groove of the receptacle, a wooden cover, a split resilient rim carried by the cover, depending therefrom and having an inwardly directed bead to snap in the groove, and a slot above said bead, and a finger projecting from the band and passed through said slot of the rim to provide a hinged connection between the cover and receptacle.

1,920,672
AIR CIRCULATING MEANS FOR PORTABLE HAMMERS
James N. Baker, Towson, Md., assignor to The Black & Decker Manufacturing Company, Towson, Md., a Corporation
Application August 14, 1931. Serial No. 557,013
8 Claims. (Cl. 125—33)



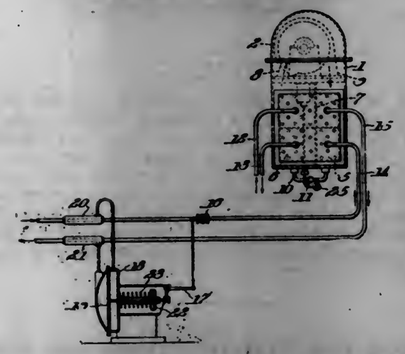
3. In a portable power hammer, a ram, a barrel therefor including guiding means for the ram, an air passage extending longitudinally thereof to cool the barrel and guide, the ram cooperating with the opposite ends of the guide after the manner of a double pump, a port admitting air into the guide in the path of the ram at one end, means for passing air through said port, the ram operating to expel air from the guide into said passage which has an admission port adjacent said first mentioned port for this purpose, the passage also having a port at its opposite end leading into the opposite end of the guide, said port being covered by the ram as it descends, the ram serving to compress the air from the passage when said port is covered, and to expel this air, the construction including a discharge opening for this purpose.

1,920,674
VARIABLE PITCH PROPELLER
Marius Jean-Baptiste Barbarou, Neuilly-Sur-Seine, France
Application April 8, 1930, Serial No. 442,656, and in France May 11, 1929
5 Claims. (Cl. 170—162)



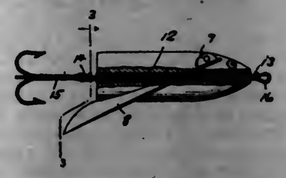
1. A variable pitch propeller comprising in combination a member secured to the driving shaft, a blade rotatably and axially movable on said member, a ball bearing cage between said member and blade, balls held by said cage and movable in helical grooves of said member and blade, a motion proportionating device for connecting said cage with said blade and member, and yielding means for opposing said helical motion.

1,920,675
REFRIGERATING MACHINE
Adolf Baumann, Wettingen, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a joint stock company
Application May 7, 1932, Serial No. 609,875, and in Germany December 20, 1930
8 Claims. (Cl. 62—3)



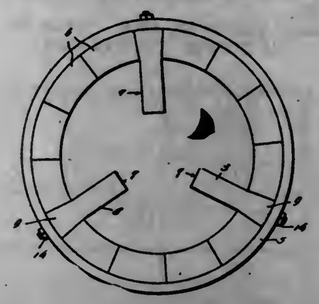
1. A refrigerating machine of the type including a water-cooled condenser, and means for controlling the quantity of water circulated through said condenser, said controlling means including an adjustable element for regulating the flow of the cooling water, and means including thermostats at the water inlet to and the water exit from the condenser for adjusting said control means to maintain a substantially constant difference between the temperature of the water flowing to and the water leaving said condenser.

1,920,676
REVOLVING FISH LURE
August H. Burckhardt, Russell, Minn.
Application August 21, 1931, Serial No. 558,619
Renewed June 10, 1933
2 Claims. (Cl. 43—47)



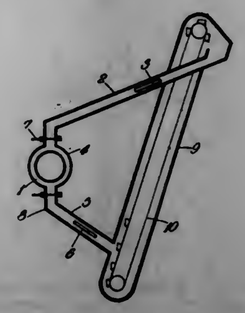
1. A fish lure comprising a stem, a body rotatably arranged on the stem, a spiral fin having ears on its inner edge, one ear being spaced from the rear end of the fin, said ears being attached to the front and rear of the body and at substantially opposite sides thereof with the rear end of the fin projecting beyond the body to be formed of bendable material whereby said end can be bent in either direction, means for attaching a line to the front end of the stem, and means for attaching a hook to the rear end of the stem.

1,920,677
KILN LINING
Richard W. Burke, Coplay, Pa.
Application September 16, 1932
Serial No. 633,540
1 Claim. (Cl. 222—7)



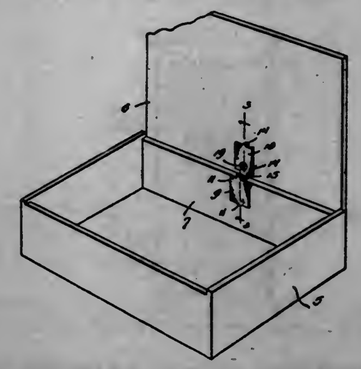
In a kiln, a shell, a brick lining for the shell, a plurality of relatively wide bricks, said wide bricks being interposed between the bricks of the lining so as to project inwardly of the kiln beyond the lining bricks, means for securing the wider bricks to the shell, said wide bricks each being provided with a transversely extending reinforcing member protruding beyond the block and its outermost side, said shell being provided with an opening therein, said projecting portion of the reinforcing element being disposed through the opening of the shell, and securing means on the reinforcing element at the outside of the shell.

1,920,678
PROTECTION OF METALLIC SURFACES FROM CORROSION
Sherard Osborn Cowper-Coles, Sunbury-on-Thames, England
Application September 10, 1928, Serial No. 304,980, and in Great Britain September 19, 1927
9 Claims. (Cl. 91—70.1)



6. A method of protecting metallic surfaces from corrosion by the process known as Sherardizing, which consists in placing the articles to be treated in a receptacle, introducing the Sherardizing mixture into said receptacle, withdrawing the mixture from the said receptacle prior to the removal of the coated articles, and applying heat sufficient to raise the said mixture to the operative temperature only when the mixture is outside the said receptacle.

1,920,679
BOX LID SUPPORT
Owen H. Crew, Tulsa, Okla.
Application August 26, 1932. Serial No. 630,593
3 Claims. (Cl. 217—60)



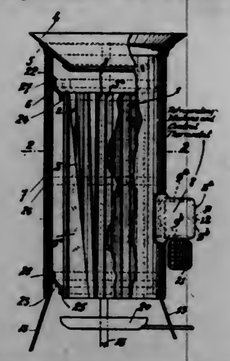
1. The combination with a box body and its hinged lid, of a plate secured to the lid on the under side and near the hinged edge thereof and having an integral depending forwardly facing hook, and a second plate secured to the inside of the back of the box body and having an upstanding rearwardly facing integral hook to receive the hook of the first-named plate when the lid is opened and thereby support the lid in a substantially vertical open position.

1,920,680
PENCIL FERRULE
Albert L. Davis, Watertown, Conn., assignor to The Waterbury Brass Goods Corporation, Waterbury, Conn., a Corporation of Connecticut
Application May 10, 1933. Serial No. 670,255
8 Claims. (Cl. 120—38)



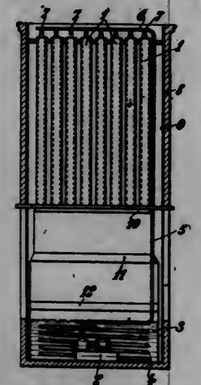
1. An article of manufacture including a two part ferrule comprising a pencil receiving part and an eraser receiving part, said eraser receiving part having an annular flange at its inner end, said pencil receiving part including a portion to telescope with said flange, and means whereby on relative rotation of said parts after they have been telescoped a surface of one is wedged against a complementary surface of the other and the parts are rigidly connected.

1,920,681
CONDENSING APPARATUS
Jean de Chasseriat, Trelissac, France
Application March 13, 1931, Serial No. 522,383, and in France January 21, 1931
10 Claims. (Cl. 62—140)



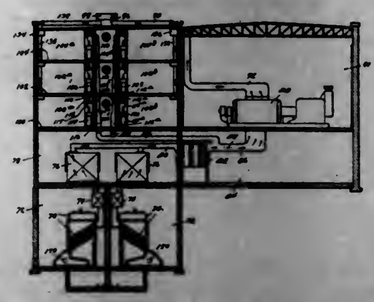
1. A condensing apparatus for use with a refrigerating machine, for collecting the humidity of the atmosphere, comprising in combination, a cylinder provided with longitudinal grooves, a nest of longitudinal tubes acting as an evaporator for said machine and disposed in contact with said cylinder, and means for collecting the water formed on the walls of said cylinder.

1,920,682
METHOD AND DEVICE FOR COOLING GASES BY CONTACT WITH A LIQUID
Humbert Frossard de Saugy, Paris, France
Application June 5, 1931, Serial No. 542,402, and in France June 16, 1930
3 Claims. (Cl. 261—11)



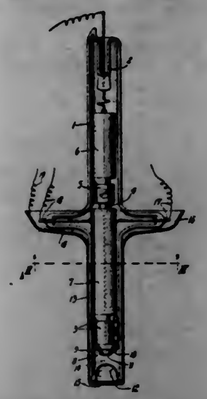
1. A method of cooling the air of enclosures by contact with a liquid, consisting in conducting said liquid through an enclosure in substantially vertical, downward direction along cooling surfaces about half way down inside the enclosure and thereupon causing the liquid to trickle "cascade-wise" in a thin stream in the lower half of the enclosure along condensing surfaces in order to carry along the surrounding air by adherence and without relative velocity between the air and the liquid thereby obtaining an exchange of calories between said two fluids without any substantial evaporation of the liquid.

1,920,683
ELECTRICAL GENERATING AND DISTRIBUTION SYSTEM AND APPARATUS THEREFOR
William S. Edsall, Brookline, Mass., assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass., a Corporation of Massachusetts
Application August 12, 1926. Serial No. 128,867
21 Claims. (Cl. 175—296)



1. The combination of an electric switch having an oil-containing casing in which the separable switch members are contained, said casing having a vent passage therethrough, and means to normally maintain an inert gaseous atmosphere about said casing and the outlet of said vent passage.

1,920,684
X-RAY DEVICE
Louis Frederick Ehrke, Newark, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania
Application October 14, 1930. Serial No. 488,592
2 Claims. (Cl. 250—35)



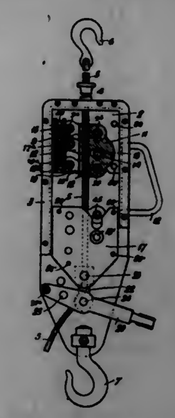
1. An electric discharge device comprising an enclosing dielectric envelope having an anode and a cathode therein, said envelope having an elongated section, said elongated section having a re-entrant bulbous portion integral therewith at one end thereof, a part of said bulbous portion being relatively thin as compared to the corresponding dimension of the remainder of the envelope and a protective covering secured to said elongated section at said end, said covering being out of contact with said relatively thin part of said bulbous portion, said covering being removably secured to said envelope and surrounding said bulbous portion.

1,920,685
ELECTRIC WATER HEATER
William L. Evans, Washington, Ind.
Application December 13, 1929. Serial No. 413,692
14 Claims. (Cl. 219—38)



1. In an electric water heater of the class described wherein a tank is mounted within a casing spaced from the inner walls thereof to provide a heating chamber between the tank and casing, a corrugated sheet metal heating unit of considerable area within the chamber and surrounding the tank.

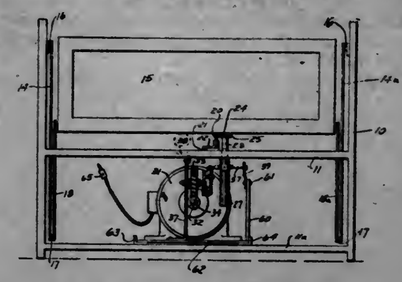
1,920,686
HAULING AND LIFTING APPARATUS
Simon Faure, Firminy, France
Application December 9, 1930, Serial No. 501,044, and in France December 26, 1929
8 Claims. (Cl. 254—135)



1. Apparatus for hauling on a rope comprising a first rope clip, a second rope clip, means for moving said second clip towards and away from said first clip, controlling means for holding one clip in action when the other is out of action, and means for reversing the action of said controlling means with respect to the direction of movement of said clip moving means.

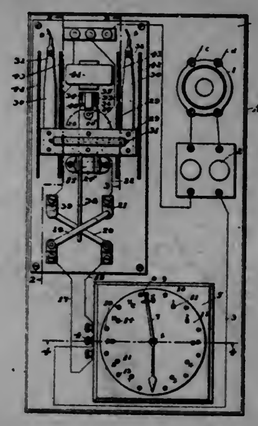
1,920,687
ELECTRICALLY DRIVEN CRADLE
John Fleaca, Cleveland, Ohio
Application July 5, 1932. Serial No. 620,840
3 Claims. (Cl. 74—14)

1. The combination of a gear and its shaft, a crank plate on the shaft, and power transmitting devices operated by the crank plate, said devices



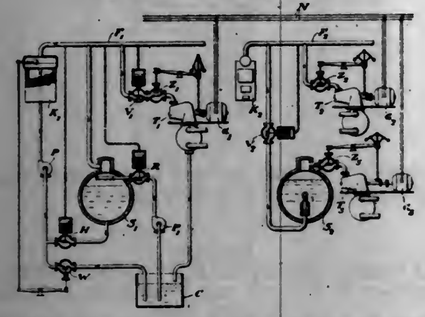
including a cylinder carried by the crank plate and a piston working in the cylinder.

1,920,688
ELECTRIC CONTROLLED TIMING DEVICE
Harrison H. Fogwell and Charles H. Judd, Los Angeles, Calif.
Application August 25, 1928. Serial No. 302,106
8 Claims. (Cl. 161—1)



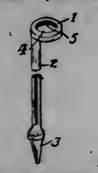
1. In an electric system, the combination of a main circuit, a switch in said circuit, an auxiliary circuit, a pair of electromagnets in parallel arrangement in said auxiliary circuit, an armature for one of said electromagnets, a carrier for said armature, a pivoted leg connected with said carrier and rocked as the armature is moved, a pair of spring contacts in the circuits leading to said electromagnets, said spring contacts being on opposite sides of the said leg so as to be operated by the latter in opposite directions as the said leg is rocked, switch members connected with the said leg and forming the movable parts of the switch in the main circuit, said members being operated to close the main circuit when the said armature is attracted, means for temporarily holding the said switch members in their closed positions, and means under control of the other electromagnet for releasing the said switch members and breaking the main circuit, the said leg and the cooperating spring contacts being so arranged that, upon the movement of the said armature carrier in either direction, the leg moves one spring contact away from its cooperating contact point and permits the other spring contact to engage with its cooperating contact point.

1,920,689
POWER PLANT
Carl Föhl, Stockholm, Sweden, assignor to Ruths-accumulator Aktiebolag, Berlin, Germany, a Corporation of Sweden
Application June 21, 1928, Serial No. 287,243, and in Germany June 28, 1927
16 Claims. (Cl. 290—4)



1. The method of operating a power installation having a plurality of power plants on a common load net, comprising using a base load power plant for carrying a base load, using a peak load power plant for carrying a peak load, utilizing excess steam generated in said base plant for increasing steam generation in said base plant, and utilizing excess steam generated in said peak plant for increasing the power output of said peak plant.

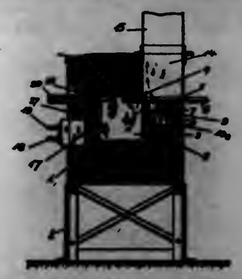
1,920,690
HAIR WAVER OR CURLER
Hannah Chisholm Fraser and Mary Ann Fraser, Bournemouth, England
Application December 15, 1931, Serial No. 581,136, and in Great Britain December 20, 1930
6 Claims. (Cl. 132—44)



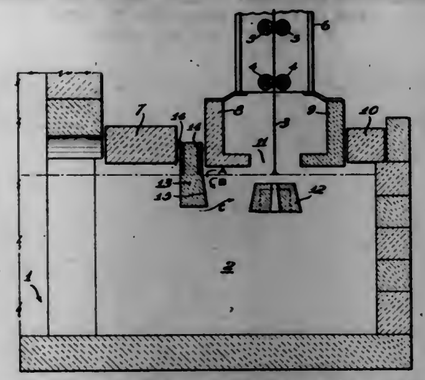
1. A hair waving or curling device comprising a shank, a tongue-piece at one end of the shank, a head having an aperture therein through which said tongue-piece is adapted to be passed, and means whereby said head is rigidly united to said shank so that the axis of said aperture maintains a parallel or substantially parallel relationship with said shank even with said tongue-piece in said aperture said head constituting a rigid hair retaining abutment and finger grip for said shank.

1,920,691
APPARATUS FOR HEATING ARTICLES
Heinrich Frischkorn, Gelsenkirchen, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa., a Corporation of Delaware
Application December 30, 1931, Serial No. 583,858, and in Germany January 2, 1931
7 Claims. (Cl. 263—9)

1. Apparatus for heat treatment of a part only of an article comprising: a heat treating chamber provided with means for heating an article inserted therein, said chamber having an article inlet opening for insertion of the part of the article to be heat treated; a channel outside the chamber near said inlet opening and adjacent the supporting point for an article in said inlet opening; cooling medium supply means in said channel; said channel being open outwardly toward the article supporting point and being broadened towards the same from the cooling medium supply means therein.



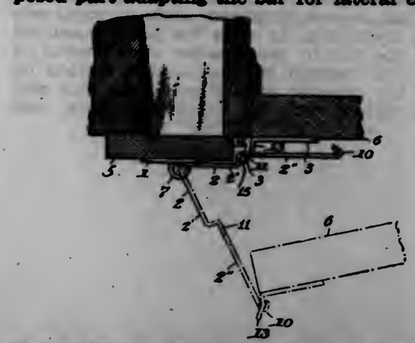
1,920,692
GLASS DRAWING TANK
Howard L. Halbach, Clarksburg, W. Va., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania
Application June 23, 1932. Serial No. 618,880
6 Claims. (Cl. 49—17)



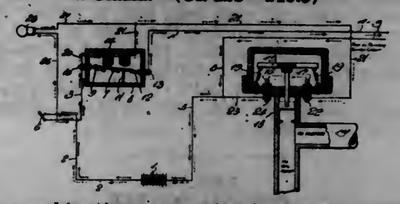
1. In combination in apparatus for making sheet glass including a melting tank and a drawing extension communicating therewith, means for drawing a glass sheet from the extension, and a skim bar of refractory material lying in the glass bath between the inlet end of the drawing extension and the line of draw remote from the meniscus of the sheet having its side toward the line of draw extending downwardly and forwardly from the glass level.

1,920,693
DOORSTOP
Charles W. Halsey, Evansville, Ind.
Application December 3, 1931. Serial No. 578,809
3 Claims. (Cl. 292—262)

2. In a door stop, a locking bar adapted for connection at one end to means for its attachment to the door frame and having a free part which may be engaged with a keeper on the door, characterized by a narrowed part located between its broader parts and disposed in angular relation to the bar, said narrowed, angularly disposed part adapting the bar for lateral engagement with, or disengagement from, the keeper when the door is closed.



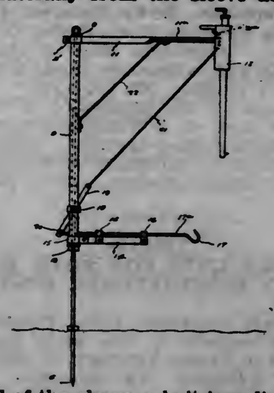
1,920,694
AUTOMATIC ENGINE STOPPING MEANS
Manley Martin Hancock, Binghamton, N. Y.
Application February 12, 1931. Serial No. 515,324
1 Claim. (Cl. 123—146.5)



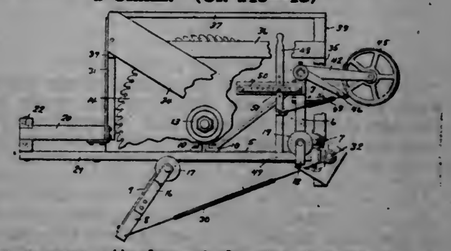
In combination, an engine having an ignition circuit embodying a manually-actuated ignition switch and a second ignition switch of self-closing form, the latter having an electro-magnet for opening it; a circuit for said electro-magnet branched from said ignition circuit and embodying said manually-actuated ignition switch but not said second ignition switch, said circuit of said electro-magnet embodying a second self-closing switch, means controlled by the lubricating oil of the engine for holding said second self-closing switch open, a tell-tale, and a circuit for said tell-tale branched from said electro-magnet circuit and embodying said manually-actuated ignition switch; whereby upon closing said manually-actuated switch the engine may be operated until diminished oil permits closing of said second self-closing switch and the latter effects simultaneous opening of said second ignition switch and operation of said tell-tale, and whereby opening of said manually-actuated ignition switch will again cause closing of said second ignition switch and discontinuance of said tell-tale, thereby discontinuing current consumption.

1,920,695
TRAP GUN
Paul B. Hass, Chamberlain, S. Dak.
Application May 9, 1932. Serial No. 610,192
3 Claims. (Cl. 42—34)

1. In a trap gun, a stake rod having an end adapted to be driven into the ground, an elongated sleeve mounted on the upper portion of said rod for rotation about the longitudinal axis of the rod, a supporting arm extending from said sleeve adjacent the upper end thereof, a trap gun proper supported on the outer end of said arm and having the barrel thereof disposed straight downward, a lever pivotally supported on said sleeve adjacent the lower end thereof, a link pivotally connected with said lever at one end and having a free end formed to engage the trigger of the trap gun proper, a guide arm extending laterally from the sleeve adjacent the lower end of the sleeve, a bait impaling hook including a shank mounted on said guide member slidable longitudinally thereof and pivotally connected with said lever whereby upon shifting of said bait hook said lever will be rotated for tripping the trigger of the trap gun.



1,920,696
SAW ATTACHMENT FOR TRACTORS
Aphel O. Hillan, Wentworth, S. Dak.
Application April 7, 1933. Serial No. 664,984
1 Claim. (Cl. 143—43)



In a saw attachment for tractors, a frame structure, means for securing the frame structure to the tractor frame, guide means mounted on the frame structure, rods engaging the guide means for movement longitudinally relative to the supporting frame structure, a log supporting table mounted on one end of the rods for movement therewith and having one end thereof extending laterally beyond the supporting frame structure, and provided in said extended end with a saw accommodating slot, a saw mounted on the frame structure and disposed laterally thereof at the side of the frame structure beyond which said one end of the log supporting table extends, to be accommodated in said slot upon movement of the log supporting table toward the saw, a lateral extension on the free end of one of said rods, a U-shaped standard secured at one end thereof to the extended end of the saw table, a saw guard pivoted at one end to the said lateral extension of said one rod, and inter-engaging means on the upper end of said standard and the free end of the saw guard for securing said last-named end of the saw guard to the standard for supporting the guard between said standard and lateral extension on said one rod in operative position to said saw.

1,920,697

PHOSPHORIC ACID SALT OF β-BROMETHYL-TRIMETHYL-AMMONIUM-THEOBROMINE-1-ACETATE AND PROCESS OF PRODUCING THE SAME

Heinrich Hornstein, Berlin-Halensee, Germany, assignor to Hermann Koch, Berlin, Germany

No Drawing. Application May 19, 1932, Serial No. 612,388, and in Germany January 25, 1932
2 Claims. (Cl. 260—34)

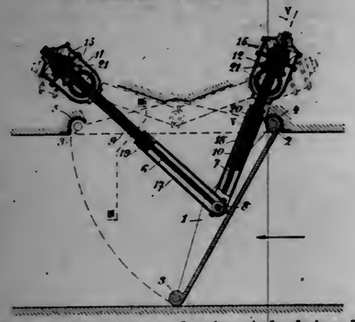
1. A process for the production of the phosphoric acid salt of β-bromethyltrimethyl-ammonium-theobromine-1-acetate, which comprises treating β-bromethyl-trimethyl-ammonium-theobromine-1-acetate with phosphoric acid.

1,920,698

ADJUSTABLE GATE FOR BOTH WAYS OF FLOW IN SUBSTANTIALLY HORIZONTAL SLUICES

Albert Huguenin, Paris, France

Application December 5, 1930, Serial No. 500,347, and in France February 25, 1930
5 Claims. (Cl. 251—10)



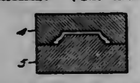
1. In combination a horizontal sluice having even bottom and side walls and an upper wall having a recess therein, and a shutting gate adapted to be selectively pivoted at its opposite ends and to seat in its closed position against the sluice walls to prevent flow therethrough, sliding pivot rods placed at the two corresponding opposite ends of the said recess, holes being provided at the ends of said gate and adapted to receive said pivot rods respectively, and means for engaging and disengaging these pivot rods into said holes.

1,920,699

METAL DIE

Roy T. Hurley, Dobbs Ferry, N. Y.

Application August 20, 1932. Serial No. 629,603
3 Claims. (Cl. 22—136)



1. As an improved article of manufacture a die, for forming articles of predetermined shape, made of an alloy of copper and beryllium in the proportions of 1 to 10 percent of beryllium and the balance of copper.

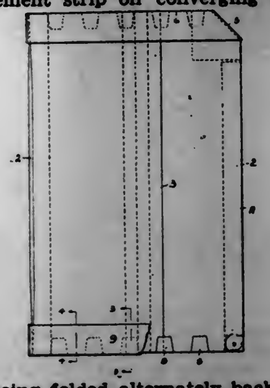
1,920,700

PAPER BAG

Roy W. Jaite, Lakewood, Ohio

Application May 29, 1931. Serial No. 541,017
1 Claim. (Cl. 229—62)

A paper bag, comprising a multiple number of seamed tubes, sleeved together with their pasted seams longitudinally arranged on the same side of the bag, a re-enforcement strip of paper extending longitudinally upon the plain unseamed wall of the bag to the opposite ends thereof, a plurality of tapered locking tongues formed by slitting the opposite ends of said tube and said re-enforcement strip on converging lines, said



tongues being folded alternately back upon the opposite walls of said bag, and a binder strip pasted to and encircling the edge of said bag and covering said tongues, said tongues being of small width so that a plurality of said locking tongues extend over said re-enforcing strip to securely interlock said strip with the opposite ends of said bag.

1,920,701

POTATO SORTER

George M. Jenkins, Hemingford, Nebr.

Application December 15, 1930. Serial No. 502,564
5 Claims. (Cl. 209—71)



1. In a potato grading and sorting machine, a frame, side and intermediate endless grading belts extending longitudinally of the frame, the side belts being of the same mesh, means for initially delivering potates to the side grading belts, said side grading belts also constituting picking tables, means for receiving the potates from the side and intermediate belts comprising side roller picking and sorting belts and an intermediate grading belt of the same mesh as the first intermediate grading belt, and guide members extending from all of the first grading belts for delivering the potatoes from the side grading belts to the roller supporting and picking roller belts and the potatoes from the first intermediate grading belt to the second grading intermediate belt.

1,920,702

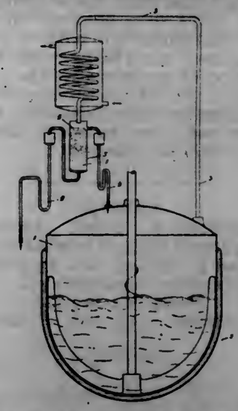
MANUFACTURE OF CELLULOSE ETHERS, IN PARTICULAR BENZYLCELLULOSE

Anatolio Lautenberg, Milan, Italy, assignor to "Châtillon", Società Anonima Italiana per la Seta Artificiale, Milan, Italy, a Corporation of Italy

Application October 6, 1930, Serial No. 486,817, and in Italy December 21, 1929
5 Claims. (Cl. 260—152)

1. A process for the manufacture of cellulose ethers, especially benzyl cellulose, consisting in regulating the concentration of caustic soda in

the reacting mass at an approximate temperature of 95° C. by the elimination of water in the



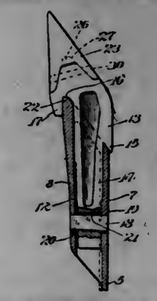
form of an azeotropic mixture with an added inert substance.

1,920,703

DIPPER FRONT

Samuel G. Llewellyn, Evanston, Ill., assignor to Pettibone Mulliken Company, a Corporation of Delaware

Application August 28, 1931. Serial No. 559,969
5 Claims. (Cl. 37—141)



5. A dipper front comprising a front proper the upper edge of which is formed of spaced apart wall portions, ribs connecting said wall portions, the upper edge of the wall portion at the rear side of said front terminating below the upper edge of the other wall portion, a wall portion spanning the space between said first named wall portions at the top thereof and inclining downwardly and rearwardly whereby the upper edge of said front presents a cutting edge, said inclined wall portion formed with openings to receive teeth, and teeth formed with rearwardly sloping shoulders abutting the cutting edge wall and with lips overlapping the upper edges of the first named wall portions, the bases of said teeth extending downwardly into said openings and between said spaced apart wall portions.

1,920,704

TRACING CHART

Charles Lorber, Louisville, Ky.

Application October 17, 1932. Serial No. 638,245
4 Claims. (Cl. 35—8)

1. The combination for use with a grooved tracing chart; of a pad consisting of a multiplicity of sheets of transparent tracing paper permanently bound together at one edge and adhesively detachably connected together along a



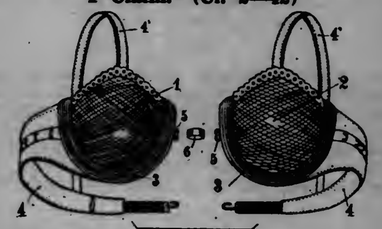
second edge to form a multiplicity of superposed casings.

1,920,705

BUST-HOLDER

Viggo Madsen, Paris, France

Application October 1, 1930. Serial No. 485,747
1 Claim. (Cl. 2—42)



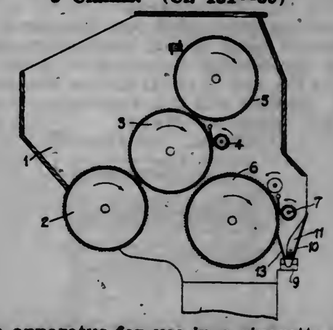
A bust-holder comprising two independent, quickly replaceable, sheaths adapted to receive the breasts of the wearer, fastening means carried inwardly by each of the sheaths, flexible elastic interconnecting means between the said sheaths, whereby the sheaths may automatically accommodate themselves to the breasts of the wearer towards and away from each other and along opposite vertical directions, said flexible elastic means comprising a looped tissue band slidably and removably mounted on the aforementioned fastening means, and means for maintaining the bust-holder in place on the wearer.

1,920,706

CIGARETTE MAKING MACHINE

Walter Everett Molins, London, England

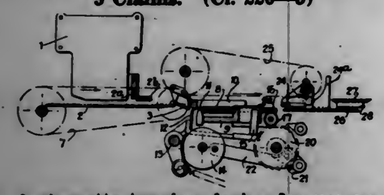
Application November 8, 1929, Serial No. 405,799, and in Great Britain November 15, 1928
5 Claims. (Cl. 131—39)



1. In apparatus for use in a cigarette making machine, the combination with means for supporting a travelling web for movement in a predetermined path, of means for discharging loose tobacco upon said web in a direction having a component in the direction of movement of the web, said last named means including plurality

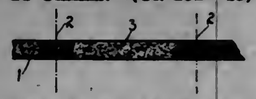
of stationary elements spaced longitudinally of the web, said elements being interposed in the path of the discharging tobacco and inclined downwardly and forwardly in the direction of movement of the web.

1,920,707
PACKING MACHINERY
Walter Everett Molins, Deptford, London, England
Application June 6, 1931, Serial No. 542,617, and in Great Britain June 7, 1930
5 Claims. (Cl. 226—5)



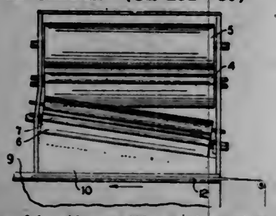
1. A cigarette turning device for use on packing machines comprising a series of rotatable parallel rollers operable to move the cigarettes about their longitudinal axes, and means for engaging the seams of the cigarettes thus moved to arrest the movement, said means being positioned beneath the upper surface of said rollers.

1,920,708
METHOD OF MANUFACTURING CIGARETTES
Desmond Walter Molins, Bexley, England
Application July 13, 1931, Serial No. 550,521, and in Great Britain April 28, 1931
14 Claims. (Cl. 131—43)



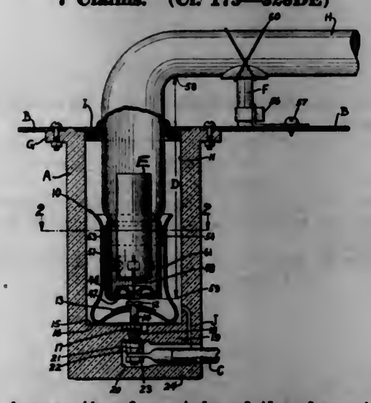
1. A method of manufacturing cigarettes on continuous rod cigarette machines consisting in varying the density of the tobacco in the continuous rod produced by the machine, from point to point, and subsequently cutting the rod at the points of maximum density to produce cigarettes having relatively dense ends.

1,920,709
CIGARETTE MAKING MACHINE
Walter Everett Molins, London, England
Original application November 8, 1929, Serial No. 405,799, and in Great Britain November 15, 1928. Divided and this application December 27, 1932. Serial No. 649,037
11 Claims. (Cl. 131—39)



7. The combination with a cigarette machine feed chute of elongated form having an open bottom and adapted to confine tobacco falling therethrough in a shower, of means extending longitudinally of said chute for discharging loose tobacco downwardly through the chute along a substantial portion of the length of the same so that the tobacco particles move through substantially linear paths in a common direction, and means travelling under the bottom of said chute in a path inclined at an acute angle with respect to the direction of movement of the tobacco particles and with respect to the direction in which said first named means extends for intercepting the particles and forwarding the tobacco out of the range of action of the chute.

1,920,710
LUMINESCENT TUBE TERMINAL CONNECTION SOCKETS
Ferdinand L. Nelson, Los Angeles, Calif.
Application September 22, 1931
Serial No. 564,329
7 Claims. (Cl. 173—328DE)



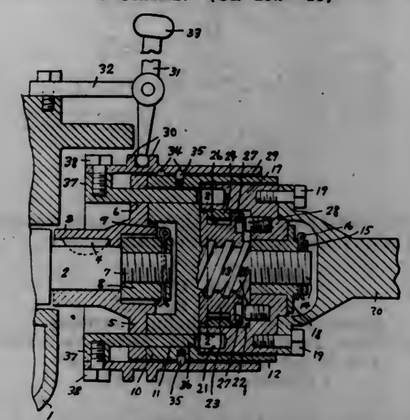
1. A mounting for a tube of the character described embodying: a socket adapted to receive an end of said tube, said socket having a plurality of resiliently expansible side wall segments and a domed bottom wall; and means operable upon said domed bottom wall for controlling the radial position of said side wall segments relative to each other.

1,920,711
SAFETY RAZOR
Mino Pelizzola, Milan, Italy
Application November 1, 1929, Serial No. 404,180, and in Italy November 8, 1928
2 Claims. (Cl. 30—12)



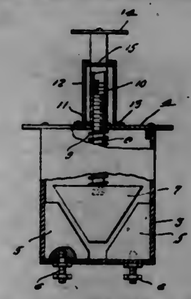
2. A safety razor comprising a pair of blocks, a handle fixed to one block, blades having the same width and arranged in a plane between the blocks, flat spacing plates between the blades and being in intimate contact therewith throughout their width, the said blades, blocks and plates being disposed in inclined relation with respect to the longitudinal axis of the handle, each blade having a cutting edge on its longitudinal sides and clamping means cooperating with the blocks for holding the longitudinal edges of the blocks, blades and plates in stepped relationship and the cutting edges of the blades in the same parallel plane.

1,920,712
FREEWHEELING DEVICE
Charles F. Pilcher, St. Louis, Mo.
Application July 17, 1931. Serial No. 551,480
4 Claims. (Cl. 192—48)



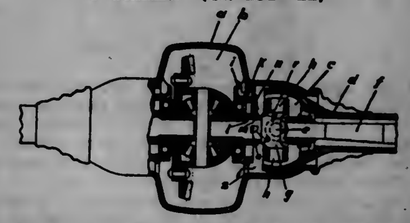
4. In a free wheeling device, a member having a recess therein, a clutch member located in the recess, one of said members having sockets therein and the other member having projections thereon for engaging the sockets when the clutch member has been moved to a certain position, a member including a spirally threaded shaft and said clutch member having a spirally threaded bore through which the shaft passes, said clutch member having an annular groove in its periphery, a split friction ring located in the groove for forcing the ring outwardly against portions of the wall of the recess, a projection on the clutch member engaging a part of the ring for moving the ring with the clutch member, a driven shaft connected with the first mentioned member and a drive shaft connected with the member carrying the spirally threaded shaft.

1,920,713
SAFETY SWITCH
Samuel S. Prince, Binghamton, N. Y.
Application November 25, 1932. Serial No. 644,377
2 Claims. (Cl. 200—158)



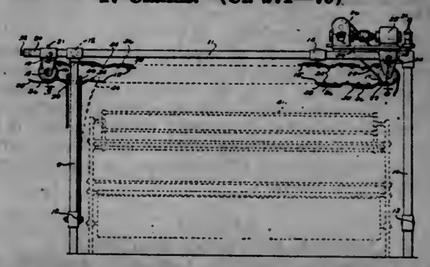
1. A circuit controlling switch comprising a casing, a pair of fixed contacts arranged in said casing, a cylindrical housing supported on one wall of said casing exteriorly thereof, a tubular rod rotatably supported in said housing, a threaded rod having threaded engagement with said tubular rod for axial movement relative thereto, and extending into said casing, a contact on said threaded rod for movement therewith into and and out of engagement with said first mentioned contacts, and a spring convoluted about said threaded rod and interposed between said movable contact and said one wall of said casing.

1,920,714
LUBRICATING MEANS
Franz Roller, Stuttgart-Wangen, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany, a Company of Germany
Application February 10, 1932, Serial No. 592,109, and in Germany February 11, 1931
4 Claims. (Cl. 184—11)



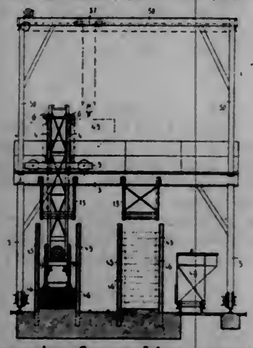
1. In a power-driven vehicle a gear casing, rotary gear members in the said casing, a pocket disposed laterally in the casing, in which the lubricating oil thrown about by the gear members can be caught, a casing chamber forming a lateral continuation of the gear casing, a driving shaft, a driven shaft and a joint having pivot pins for connecting the said two shafts in the said chamber, a connecting opening between the said pocket and the lateral casing chamber, and positioned to direct oil caught in the pocket to flow down into the casing chamber and on to one of the said shafts, in proximity to the pivot pins of said joint so as to enable the oil impinging on said shaft to be driven by centrifugal force into the joint, as set forth.

1,920,715
LAUNDRY FLAT PIECE SPREADER AND CARRIER
Lee R. Sager, Minneapolis, Minn., assignor of one-third to Antone Wayne Julian and one-third to Merton A. Pocock, Minneapolis, Minn.
Application March 23, 1931. Serial No. 524,587
17 Claims. (Cl. 271—79)



1. A device of the class described comprising a flexible carrier, and a lever-acting member secured to the carrier and holding the same buckled, whereby when the carrier is placed under tension tending to straighten the buckle therein it will press said member toward the carrier.

1,920,716
CONCRETE AND LIKE BLOCK MAKING MACHINE
Wilhelm Schäfer, Mannheim, Germany
Application July 7, 1932, Serial No. 621,241, and in Germany March 28, 1931
4 Claims. (Cl. 25—41)



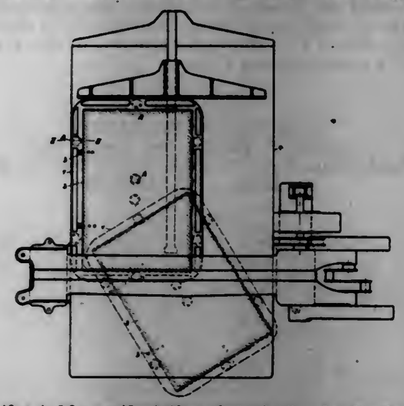
1. An apparatus for making concrete and like building blocks, floor plates and the like, comprising in combination a movable main-frame adapted to travel along slowly and steadily, a bogie carried by the main-frame and adapted to move transversely towards the path of the main-frame; two mould-walls forming the mould and movably mounted at the lower end of the bogie, two groups of core-pieces movably carried by the bogie between the mould-walls, a movable mounting-frame (18) carrying the mould-walls and the one group of the core-pieces, a second movable mounting-frame for carrying the second group of core-pieces, a supporting frame fixed to the bogie and supporting the two movable mounting-frames, an eccentrical arrangement, joining rods and driving levers, all mounted on the bogie to impart an alternate jerking motion to the two groups of core-pieces and the mould-walls, an auxiliary frame carried by the main-frame to move transversely towards the path of the main-frame, a tamping machine with tampers carried by the bogie and means for driving the main-frame, the bogie, the tamping machine and the eccentrical arrangement.

1,920,717
PROCESS FOR PRODUCING ANILINE BLACK AND FOR PREVENTING THE WEAKENING OF THE FIBERS
Karl Schmidt, Munich-Gladbach, Germany
No Drawing. Application December 31, 1927, Serial No. 244,037, and in Germany July 8, 1926
2 Claims. (Cl. 8—6)

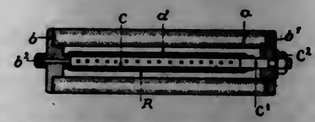
1. In the process of dyeing fibrous material with aniline black a single dye-bath comprising the combination with an aniline salt, an alkali metal chlorate and a salt of a heavy metal, of an organic catalyst consisting of phenylene diamine and a protectively acting alkali salt consisting of potassium thiocyanate, as and for the purposes set forth.

1,920,718
PAPER CUTTING MACHINE
Karl Stegmann, Bautzen, Germany, assignor to Johne-Werk Grofische Maschinen-Aktiengesellschaft, Bautzen, Germany
Application January 13, 1930, Serial No. 420,574, and in Germany May 29, 1929
9 Claims. (Cl. 164—59)

1. In a device of the kind described in combination, a cutting machine table, a plate arranged above the table, means yieldingly mounted on the undersurface of the plate and engaging the table so that the plate is freely displaceable in any desired direction on the table.

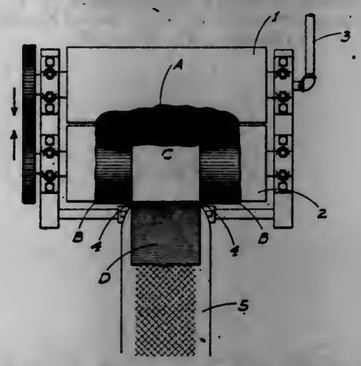


1,920,719
AERATING DEVICE
Eugen Stich, Mannheim, Germany
Application January 9, 1932, Serial No. 585,742, and in Germany January 15, 1931
4 Claims. (Cl. 261—121)



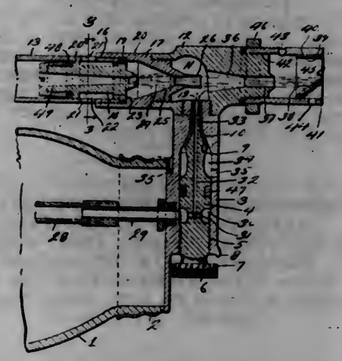
1. A porous aerating head adapted to be submerged in a liquid and having an outer hollow porous body made of burnt clay and the like, a perforated gas supply pipe within said body and a non-return valve member permitting passage of gas through said perforations in the gas pipe to the interior of the porous body but preventing the fall of pressure within said body when the gas pressure in the supply pipe fails.

1,920,720
METHOD OF APPLYING RETREAD RUBBER TO TIRES
William B. Thurman and Herbert J. Woock, Lodi, Calif., assignors to Super Mold Corporation
Application June 8, 1931. Serial No. 542,994
3 Claims. (Cl. 154—14)



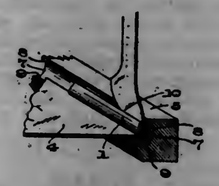
3. The method of applying retreading rubber to tires including removing the old rubber on the tire to expose the fabric mesh of the carcass, heating the carcass and then pressing heated unvulcanized rubber into the exposed mesh, such rubber being then built up to a thickness desired for the tread of the tire.

1,920,721
SPRAYING DEVICE
Leslie L. Tirrell, Washington, D. C.
Application March 24, 1930. Serial No. 438,519
5 Claims. (Cl. 299—84)



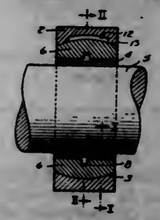
1. A spraying device comprising a body having a liquid passage therethrough, means at one end of said passage for attaching it to a source of liquid under pressure, a discharge nozzle at the other end of said passage, ejector means in said body whereby liquid flowing in said passage towards said discharge nozzle will draw air from the surrounding atmosphere into the passage, a second ejector in said passage between said ejector means and said discharge nozzle having a suction chamber therein, a liquid receptacle, an outlet conduit for said receptacle connected to said suction chamber for feeding liquid from said receptacle into said passage.

1,920,722
MEANS FOR FASTENING GLASS
Sotoji Umegaki, Nishi Sugamo Machi, Kitatoshima Gun, and Hideaburo Hisamatsu, Hachimandori, Shibuya Machi, Toyotama Gun, Tokyo Fu, Japan
Application October 28, 1931. Serial No. 571,622
3 Claims. (Cl. 20—56.4)



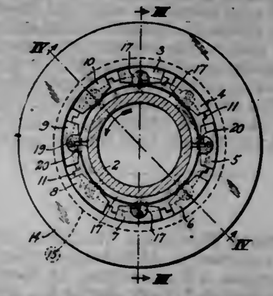
1. Means for fastening a pane of glass, comprising a strip of elastic material adapted for insertion in a grooved frame member and provided with spaced longitudinal grooves, one of the grooves being adapted to receive and embrace the edge of a pane of glass and the other groove being adapted to engage behind the corner of the groove in a frame.

1,920,723
BEARING
August Gunnar Ferdinand Wallgren, Stockholm, Sweden, assignor to Aktiebolaget Nomy, Stockholm, Sweden, a Corporation of Sweden
Application December 2, 1929, Serial No. 410,918, and in Sweden December 8, 1928
16 Claims. (Cl. 308—73)



1. A bearing of the character described comprising an annular bearing ring having an internal surface of generally spherical form, a plurality of bearing blocks having operative positions within said ring and adjacent said spherical surface, means for tilting said blocks and said surface being cut away at a portion thereof.

1,920,724
BEARING
August Gunnar Ferdinand Wallgren and Carl Gustaf Janson, Stockholm, Sweden, assignors to Aktiebolaget Nomy, Stockholm, Sweden, a Corporation of Sweden
Application October 29, 1931, Serial No. 571,875, and in Sweden November 4, 1930
28 Claims. (Cl. 308—73)

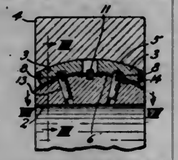


1. A bearing comprising relatively rotatable members, a plurality of blocks having operative positions between said members and carried along with one of said members during rotation, means permitting limited movement between said blocks and said one of said members, and additional means for preventing such limited movement during a period of rotation in a given direction.

1,920,725
BEARING
August Gunnar Ferdinand Wallgren, Stockholm, Sweden, assignor to Aktiebolaget Nomy, Stockholm, Sweden, a Corporation of Sweden
Application November 14, 1931, Serial No. 574,939, and in Sweden November 14, 1930
23 Claims. (Cl. 308—73)

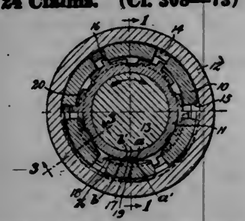
1. A bearing comprising relatively rotatable members, a plurality of bearing blocks having operative positions between said members, said blocks and one of said members having smooth cooperating surfaces, said blocks and the other of said surfaces having irregular co-

operating surfaces for tilting the blocks, and means for mounting the blocks to have turning



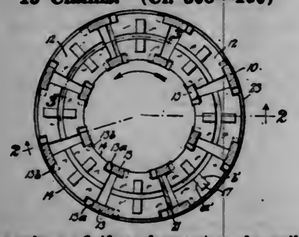
movement about axes intersecting the smooth and the irregular surfaces.

1,920,726
BEARING
August Gunnar Ferdinand Wallgren, Stockholm, Sweden, assignor to Aktiebolaget Nomy, Stockholm, Sweden, a Corporation of Sweden
Application February 8, 1932, Serial No. 591,467, and in Sweden and Germany February 13, 1931
24 Claims. (Cl. 308—73)



1. A bearing comprising inner and outer bearing members and a plurality of blocks having operative positions radially between said members, one of said members and said blocks having cooperating surfaces curved in axial direction and adapted to slide with respect to each other, and the other of said members and said blocks having cooperating surfaces positioned obliquely with respect to the axis of rotation of the bearing and tending to cause the blocks to tip under the influence of axial thrust load on the bearing.

1,920,727
BEARING
August Gunnar Ferdinand Wallgren, Stockholm, Sweden, assignor to Aktiebolaget Nomy, Stockholm, Sweden, a Corporation of Sweden
Application March 1, 1932, Serial No. 596,045, and in Sweden March 6, 1931
15 Claims. (Cl. 308—160)

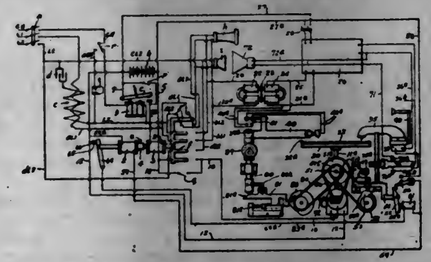


1. A bearing of the character described comprising relatively rotatable bearing members, a plurality of bearing blocks having operative positions axially between said members, one of said members and said blocks having cooperating surfaces for causing rotation in one direction to tilt the blocks one way and rotation in the other direction to tilt the blocks the other way, means for permitting and limiting shift of position between said blocks and one of said members, and means providing an unloaded zone for facilitating said shift of position upon reversal of direction of rotation of the bearing.

1,920,728
CELLULAR SLAG
Rothe Weigel, Wilmette, Ill., and Paul W. Bachman, Nashville, Tenn., assignors to Victor Chemical Works, Chicago, Ill., a Corporation of Illinois
No Drawing. Application January 27, 1933 Serial No. 653,922
10 Claims. (Cl. 49—77.5)

1. The method of treating slag for the purpose set forth, comprising maintaining a body of molten slag, cooling the body with steam to a temperature above the congealing temperature of the slag, and then introducing controlled amounts of water into the body of the slag to expand it to the desired volume.

1,920,729
TELEPHONE MESSAGE RECORDING AND REPRODUCING APPARATUS
Ernest M. Wilson, Portland, Oreg., assignor to H. A. Hartshorn, Wm. F. Klinker, and Ernest M. Wilson, all of Portland, Oreg., as trustees
Application February 24, 1930. Serial No. 430,871
2 Claims. (Cl. 179—6)

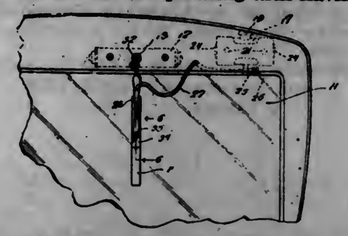


1. In a sound reproducing device the combination of a transmitter and an electric telephone circuit in which the transmitter is connected, a receiver and a second electric circuit in which the receiver is connected, an amplifying element in the second circuit, and a relay element adapted to transmit substantially only the oscillations induced by the voice in the said first circuit, said relay element comprising electro-magnets connected in said circuits respectively and a diaphragm between said magnets, the strengths of said magnets being relatively proportioned to induce magnetic fields of substantially equal force on both sides of the diaphragm, means actuated by the signal current of the telephone circuit for connecting the latter with its electro-magnet, sound reproducing means and recording elements connected with said amplifying element, mechanical means actuated by said sound recording elements for disconnecting the electro-magnets from the telephone circuit and said amplifying element.

1,920,730
WINDSHIELD WIPER
John F. Wiseman, Dorchester, Mass.
Application June 12, 1931. Serial No. 543,956
3 Claims. (Cl. 15—250)

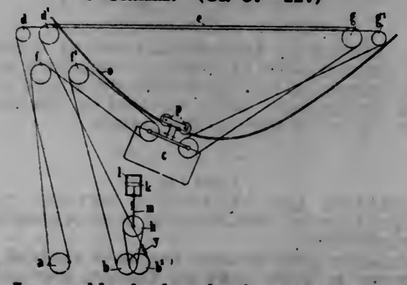
1. A windshield wiper including a holder, a wiping element received thereby, a substantially U-shaped socket member receiving the holder and having a relatively large upper end and a relatively restricted lower end, said socket being

open at both ends, a lug projecting inwardly from one wall of the socket at the upper end thereof, and a curved resilient operating arm having one



end passed through the socket and bearing against the holder, said arm having an opening in its length to receive said lug.

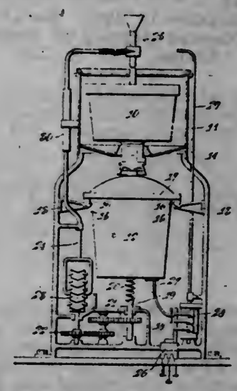
1,920,731
DREDGER
Georg Zapf, Cologne, Germany, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany
Application November 28, 1930, Serial No. 498,862, and in Germany December 3, 1929
3 Claims. (Cl. 37—117)



1. In a cable dredger having a bucket and a supporting cable therefor intended to be lowered during the dredging so as to enable the bucket to remove the material to be dredged, and to be raised, so as to enable the bucket to be traversed above the ground, a single traversing rope for the bucket, guide pulleys for said traversing rope, a driving drum for operating the traversing rope for dredging, driving pulleys for operating the traversing rope to move the bucket over the ground, said driving pulleys being intended to be braked during dredging, the combination with a tensioning pulley for said driving pulleys with the traversing rope passed round the tensioning pulley in its passage from one driving pulley to the other, of means for preventing slipping of the traversing rope during the operation of the driving drum for operating the rope for dredging, said means comprising mechanical displacing means in engagement with the shaft of the tensioning pulley for varying the tension in the rope.

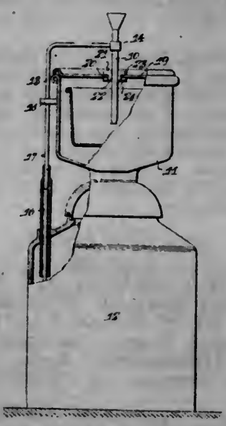
1,920,732
SPINNING CENTRIFUGE
Waldemar Zur Löwen, Wuppertal-Barmen, Germany, assignor to American Bemberg Corporation, New York, N. Y., a Corporation of Delaware
Original application August 11, 1931, Serial No. 556,428, and in Germany August 25, 1930. Divided and this application December 16, 1932. Serial No. 647,593
6 Claims. (Cl. 118—49)

1. In a device of the class described, a spinning pot, a motor for rotating the same, a thread guide tube for laying thread in said spinning pot, a housing for said spinning pot and motor, resilient cushioning means associated therewith, and on which said motor is suspended and means



for imparting reciprocatory motion to said thread guide tube comprising a shaft, a flexible connection between said shaft and said motor, and means associated with said shaft to impart reciprocatory movement to said thread guide tube.

1,920,733
SPINNING CENTRIFUGE
Waldemar Zur Löwen, Wuppertal-Barmen, Germany, assignor to American Bemberg Corporation, New York, N. Y., a Corporation of Delaware
Original application August 11, 1931, Serial No. 556,428, and in Germany August 25, 1930. Divided and this application December 16, 1932. Serial No. 647,594
3 Claims. (Cl. 118—49)



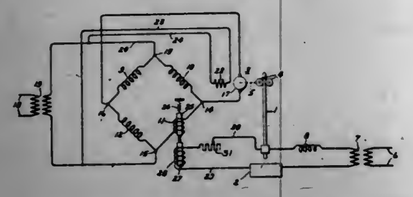
1. In a spinning mechanism comprising a spinning pot, a housing therefor, a cover for said housing having an opening formed centrally therein, a reciprocating thread guide tube to distribute thread in said spinning pot, means to position said thread guide concentric to the axis of said spinning pot, comprising a guide in which said thread guide tube reciprocates and loosely fitting said opening and means to secure said guide adjustably in said opening.

1,920,734

AUTOMATIC ARC WELDING APPARATUS

Peter P. Alexander, Marblehead, Mass., assignor to General Electric Company, a Corporation of New York

Application October 11, 1930. Serial No. 488,080
Renewed October 26, 1932
5 Claims. (Cl. 219—8)



1. Automatic arc welding apparatus comprising electrode feeding mechanism, a motor for operating said feeding mechanism, a balanced circuit, means for connecting said motor in said circuit, means for controlling said circuit, and means responsive to a characteristic of the welding arc for operating said last-mentioned means.

1,920,735

PROCESS OF EFFECTING BACTERIAL FERMENTATION WITHOUT MULTIPLYING THE CELLS

Stefan Bakonyi, Dessau, Germany, assignor to Deutsche Hydrierwerke A.-G., Berlin-Charlottenburg, Germany, a Corporation of Germany

No Drawing. Application January 31, 1929, Serial No. 336,667, and in Germany February 21, 1928
9 Claims. (Cl. 195—20)

1. The process of effecting fermentation which comprises first propagating bacteria in a sterile mash and then conducting fermentation by the aid of said bacteria in a mash unfavorable to propagation but favorable to fermentation.

9. In a process for effecting fermentation of a mash which is fermentable by butyl-acetonic bacteria but which is unfavorable to cell growth or multiplication of said bacteria, the step which comprises inoculating said mash with a culture of said butyl-acetonic bacteria possessing sufficient enzymatic activity to ferment the entire mash without the necessity of further cell growth or multiplication.

1,920,736

PROCESS OF CARRYING OUT FERMENTATIONS AND SIMILAR BIOCHEMICAL REACTIONS BY MEANS OF BACTERIA

Stefan Bakonyi, Dessau, Germany, assignor to Deutsche Hydrierwerke A.-G., Berlin-Charlottenburg, Germany, a Corporation of Germany

No Drawing. Application January 31, 1929, Serial No. 336,668, and in Germany August 3, 1928.
10 Claims. (Cl. 195—20)

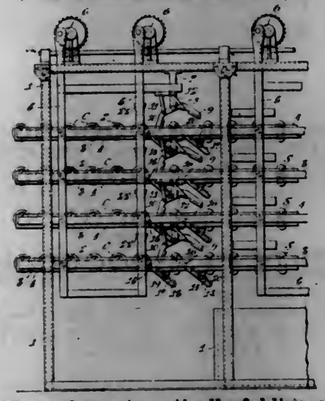
1. A process for the bacterial fermentation of crude carbohydrate materials containing antifermentative substances which comprises inoculating a dilute mash of said crude carbohydrate and after fermentation has become active, adding the remainder of the crude carbohydrate at intervals in the form of small additions of concentrated mash.

1,920,737

FILAMENT TREATING

Viktor Beplate, Sydowsaue near Stettin, Germany, assignor to American Glanzstoff Corporation, New York, N. Y., a Corporation of Delaware

Application July 8, 1931, Serial No. 549,554, and in Germany July 9, 1930
6 Claims. (Cl. 18—8)



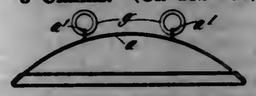
1. A device for automatically folding or pressing together cakes of filaments comprising movable frames and a gripping mechanism, said gripping arrangement being actuated by the movement of one of the movable frames.

1,920,738

CLEANING AND POLISHING DEVICE, PARTICULARLY APPLICABLE FOR MANICURE PURPOSES

Marguerite Edith Bentley, Longfield, England, assignor to Tribo Limited, London, England, a Company of Great Britain

Application August 25, 1931, Serial No. 559,184, and in Great Britain November 7, 1930
8 Claims. (Cl. 132—78)



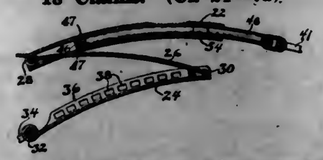
1. A cleaning or polishing device, more particularly intended for manicure purposes, comprising a single piece holder of springy material, a band and means for attaching said band to said holder, the band being kept in tension by the springiness of the holder.

1,920,739

STRAP TIGHTENER

Arthur F. Bernard, Providence, R. I.

Application October 25, 1932. Serial No. 639,509
18 Claims. (Cl. 24—71)



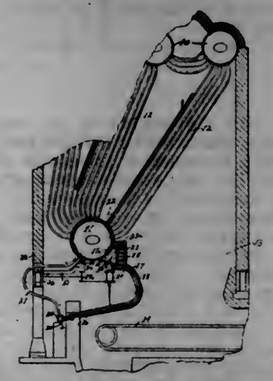
16. In a strap tightener, a top connector section, a bottom connector section, means for pivotally attaching said connector sections together, each of the connector sections having means for attaching a strap end thereto, one of the connector sections including a variably positionable member slidable therein, combined locking and adjusting means carried by the said variably positionable member and by the other connector section, said combined locking and adjusting means serving to secure the two connector sections together, and to permit variable positioning of the slidable member.

1,920,740

STEAM BOILER

John E. Black, Rumson, N. J., assignor, by mesne assignments, to Fuller Lehigh Company, a Corporation of Delaware

Application April 19, 1927, Serial No. 184,852
Renewed July 1, 1931
15 Claims. (Cl. 122—302)



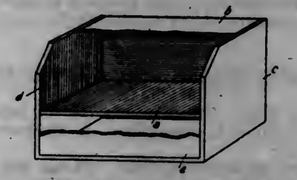
1. A water tube boiler of the Stirling type having an arch below and in front of the lower drum of the boiler, cooling tubes to support said arch, a wall supported upon and extending upwardly from said arch to a point in front of said lower drum, backing plates for said wall having vertical bulb portions on the front thereof, said wall comprising tile and said bulbs engaging recesses in said tile, whereby the tile are permitted free expansion in a generally vertical direction and an angle member connected to said lower drum, said backing plates having hooks cooperating with said angle member to form a gas seal and the plates being substantially in contact with each other to form a continuous backing for the tile.

1,920,741

RADIOCABINET

Cornelis Bol, Eindhoven, Netherlands, assignor to Radio Corporation of America, a Corporation of Delaware

Application September 11, 1928, Serial No. 305,286, and in the Netherlands September 20, 1927
2 Claims. (Cl. 250—16)



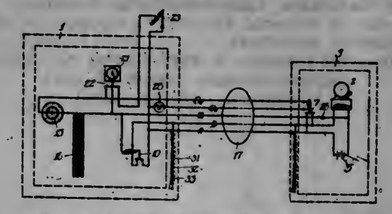
1. A method of constructing radio cabinets which comprises partitioning the cabinet interior into at least two compartments one of said compartments serving to house the tuning elements of the radio apparatus and coating the inside surface of at least the compartment adapted to house the tuning elements with a spray of shielding material.

1,920,742

PROTECTIVE SYSTEM

Arthur B. Chapman and Alexander H. Vadnais, Oshkosh, Wis., assignors to Double A Alarm Company, Inc., Oshkosh, Wis., a Corporation of Wisconsin

Application February 28, 1927. Serial No. 171,577
2 Claims. (Cl. 177—316)



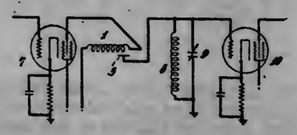
1. In a protective system, a guarded housing, a signaling casing outside of said housing, a signaling device and an energy source within said casing, a local energizing circuit for said signaling device within said casing, a switch included in said circuit, a coil for controlling said switch, a circuit for said coil constituting a protective circuit and including said energy supply source and a pair of conductors extending from said source to said guarded housing and returning to said coil at said signaling casing, said coil closing said switch to energize said signaling circuit on rupture of said protective circuit; a normally open protective circuit including said source of current and the portion of one of said pairs of conductors which extends from said energy source to said guarded housing, an additional conductor extending between said housing and said casing and said signaling device; and a coil at said guarded housing connected between said additional conductor and the portion of the other of said pair of conductors extending from said energy source to said guarded structure, and a trip circuit closer controlled by said last named coil to permanently connect said additional conductor and said first mentioned portion upon the energization of said coil.

1,920,743

COUPLING DEVICE

Benedict V. K. French and Monte Cohen, Springfield, Mass., assignors to United American Bosch Corporation, Springfield, Mass., a Corporation of New York

Application December 2, 1931. Serial No. 578,462
8 Claims. (Cl. 179—171)

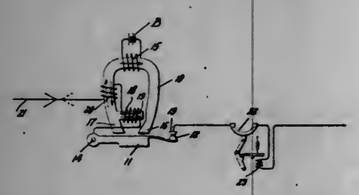


1. A coupling device for the amplifying stages of a radio receiver, comprising a coil connected to one of said stages and a conductive capacity element insulatably disposed in the windings of said coil connected to another of said stages.

1,920,744
MATERIAL FOR PREPARING METAL FOR PAINTING
Alfred Douty, Elkins Park, Pa., assignor to American Chemical Paint Company, Ambler, Pa., a Corporation of Delaware
No Drawing. Application March 12, 1930 Serial No. 435,371
4 Claims. (Cl. 148—8)

1. A material for preparing metal for painting, being an admixture comprising ortho arsenic acid, an oil solvent and an absorbent material.

1,920,745
ELECTRORESPONSIVE DEVICE
Hans Grünholz, Charlottenburg, Germany, assignor to General Electric Company, a Corporation of New York
Application October 5, 1927, Serial No. 224,269, and in Germany March 14, 1927
11 Claims. (Cl. 175—294)



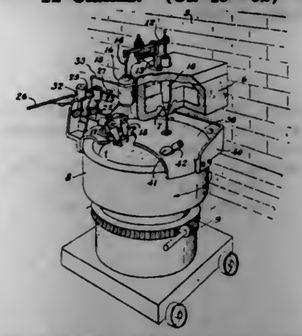
1. An electroresponsive device comprising a movable magnetic member, an electromagnet for magnetically holding the same in a predetermined position, a releasing winding associated with the electromagnet to render the holding force thereof ineffective upon a predetermined current flow in a predetermined direction in the releasing winding, and means operable upon current flow in said releasing winding in a direction opposite to said predetermined direction for preventing material variation in the holding force of said electromagnet.

1,920,746
AIRPLANE TOY
Roscoe M. Guillow, Wakefield, Mass.
Application January 23, 1932. Serial No. 588,330
9 Claims. (Cl. 46—50)



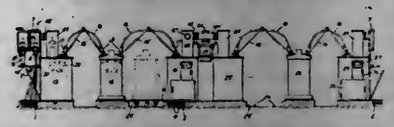
1. A toy airplane glider comprising a body, wings hinged together and adapted to be folded on a median line and hinged to the body at their rear edge, whereby said wings may be folded and extended longitudinally of the body, and yieldable means for spreading said wings; the wings in unfolding presenting a positive angle of incidence and thereby tending instantly to produce gliding action.

1,920,747
GATHERING POOL LEVEL REGULATOR
Roswell F. Hatch, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware
Application October 23, 1928. Serial No. 314,377
11 Claims. (Cl. 49—62)



1. Apparatus for operating on molten glass, comprising a glass melting tank having a discharge outlet, a container to receive glass therefrom, means for regulating the rate of delivery of glass from the outlet to the container, means for causing glass to flow in said container, a detector adapted to engage the surface of the glass in the container, mechanism for supporting said detector for movement transversely of the glass and including means for carrying the entire weight of the detector at all times, and independently of the level of the glass in the container, and connections between the detector and the regulating means, whereby the rate of delivery of glass to the container is varied in accordance with the level of the glass therein.

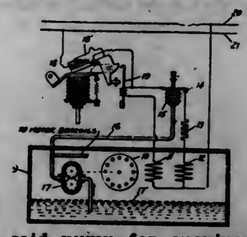
1,920,748
ELECTRICAL SWITCH GEAR
Herman J. H. Huber, Brookline, Pa., assignor to General Electric Company, a Corporation of New York
Application March 7, 1930. Serial No. 434,076
6 Claims. (Cl. 175—298)



1. Metal-clad switchgear comprising oil circuit breakers, bus and line cables, disconnecting switches for isolating said circuit breakers with respect to said cables, each disconnecting switch being housed and mounted within a metallic casing mounted independently of and spaced from said breakers, a superstructure for housing electrical connections between the disconnecting switch and its respective cables mounted on and overhanging said metallic casing, and insulating bushings for the cable conductors mounted within and depending from said super-structure.

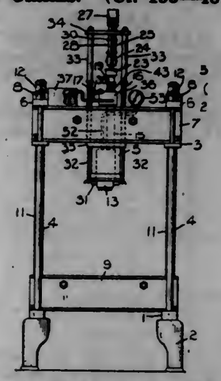
1,920,749
STARTING MEANS FOR A SPLIT PHASE MOTOR
Leonard P. Hutt, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application March 26, 1930. Serial No. 439,204
3 Claims. (Cl. 172—279)

2. In combination, a motor provided with a running winding and a starting winding, a pressure lubricating pump driven by said motor for lubricating the bearings of said motor, a line switch for controlling the energization of said windings, a circuit opening means associated with said starting winding, fluid pressure means con-



nected to said pump for opening said circuit opening means in response to a predetermined pressure produced by said pump, said pressure corresponding to substantially the running speed of said motor.

1,920,750
MANUALLY OPERATED PRESS
Patrick J. Kearney, Toronto, Ontario, Canada
Application November 21, 1932
Serial No. 643,712
9 Claims. (Cl. 153—48)



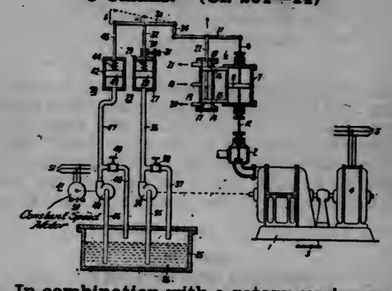
1. In a press, a base portion having an abutment at its top, a pressure exerting element supporting frame having an abutment at its bottom, and a hinged connection between the frame and the base portion for enabling the frame to be swung to a horizontal position clear of the base portion, the frame abutment resting on the base abutment when the frame is in the vertical position and supporting such frame on its base portion.

1,920,751
SHOE BINDING
Samuel M. Kessler, Brooklyn, N. Y.
Application June 8, 1932. Serial No. 615,962
1 Claim. (Cl. 36—57)



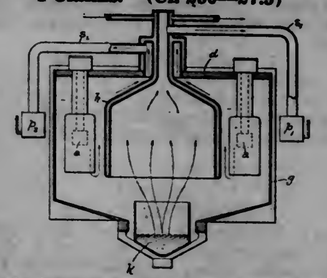
As a new article of manufacture, a binding for the top edges of shoe uppers, said binding comprising an uninterrupted binding strip having an edge thereof attached near the top edge of the shoe upper on one side of the latter with a part of the binding strip overlying said top edge and another part depending on the other side of the shoe upper, and an uninterrupted tape of less width than the binding strip and integrally united at one of its edges to the binding strip intermediate the longitudinal edges of the latter, said tape being positioned between the last mentioned side of the shoe upper and the adjacent part of the binding strip.

1,920,752
FLUID PRESSURE REGULATOR
Friedrich Kissing, Charlottenburg, and Arnold Maas, Berlin-Tegel, Germany, assignors to General Electric Company, a Corporation of New York
Application April 28, 1932, Serial No. 608,010, and in Germany May 4, 1931
5 Claims. (Cl. 264—14)



1. In combination with a rotary engine, a pressure governor having a movable member and including a pump driven by the engine for controlling the same, actuating fluid for the pressure governor, means for compensating the actuation of the pressure governor in response to viscosity changes of the actuating fluid, said means including a pressure responsive device connected to the movable member of the pressure governor, a second pumping means for supplying actuating fluid to the pressure responsive device, and a constant speed motor for driving the second pumping means.

1,920,753
VAPOR ELECTRIC DISCHARGE DEVICE
Christian Krämer, Berlin-Pankow, Germany, assignor to General Electric Company, a Corporation of New York
Application April 15, 1930, Serial No. 444,568, and in Germany July 24, 1929
4 Claims. (Cl. 250—27.5)



1. An electric discharge device including a container, an anode supported by a wall of said container, a cowl supported by said wall and dividing said container into two concentric chambers separate from each other at the upper portions

thereof, two separate evacuating means to exhaust said chambers separately, one of said evacuating means opening into said cowl at a point therein in the upper portion thereof, the other of said evacuating means opening into said container at a point therein outside said cowl and in the upper portion of the outer of said concentric chambers.

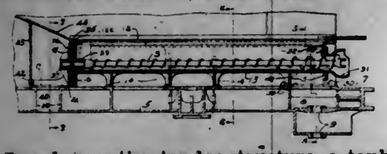
1,920,754

LOCOMOTIVE TENDER CONSTRUCTION

William L. Lentz, Tuckahoe, N. Y., and William M. Sheehan, St. Louis, Mo.; said Sheehan assignor to General Steel Castings Corporation, Granite City, Ill., a Corporation of Delaware

Application December 14, 1929. Serial No. 414,149

32 Claims. (Cl. 105—234)



1. In a locomotive tender structure, a tank including an underframe forming the tank bottom, a stoker housing integral with said underframe, said housing including a conveyor trough spaced above the bottom of said tank, the structure being adapted to contain liquid throughout the width of the underframe in the space below said trough.

1,920,755

TENDER STRUCTURE

William L. Lentz, Tuckahoe, N. Y., and William M. Sheehan, St. Louis, Mo.; said Sheehan assignor to General Steel Castings Corporation, Granite City, Ill., a Corporation of Delaware

Application December 14, 1929. Serial No. 414,150

14 Claims. (Cl. 105—234)



1. In a device of the class described, a T-shaped structure including a trough with side walls and lateral projections from the upper portions of said walls, said trough and projections forming an imperforate top wall of a liquid compartment.

1,920,756

SOFTENING WATER

Otto Liebknecht, Neubabelsberg, Germany, assignor to The Permutit Company, New York, N. Y., a Corporation of Delaware

No Drawing. Application September 16, 1931, Serial No. 563,231, and in Germany December 1, 1930

7 Claims. (Cl. 210—24)

1. In softening water, the process which comprises alternately softening hard water by contact with serpentine and regenerating said serpentine by contacting with a solution of sodium chlorid.

1,920,757

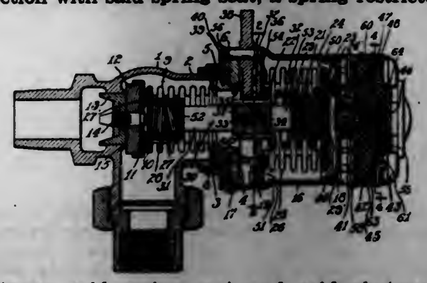
RADIATOR VALVE

William B. Mackintosh, Wabash, Ind., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a Corporation of Delaware

Application May 19, 1930. Serial No. 453,611

7 Claims. (Cl. 236—42)

1. In a device of the class described, a valve casing providing an inlet, an outlet, and a valve seat therebetween, a valve in said casing for cooperation with said seat, a stem having a threaded connection with said valve, a collapsible and expansible chamber, a bellows forming one wall of said chamber, a spring seat connected to said bellows, a spring abutment stationarily mounted in said casing, said stem having a threaded connection with said spring seat, a spring restricted



between said spring seat and said abutment, means for causing relative rotation between said stem and said valve and spring seat, a block of heat insulating material secured to said casing, a container mounted on the side of said block removed from said casing, and a tube providing communication between said container and said chamber.

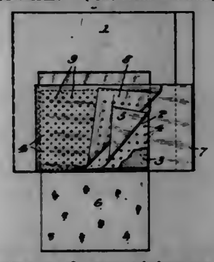
1,920,758

HAIR WAVING PAD

Everett G. McDonough, Mount Vernon, N. Y., assignor to Zotos Corporation, New York, N. Y., a Corporation of New York

Application January 4, 1933. Serial No. 650,080

11 Claims. (Cl. 132—36.2)



1. A hair waving pad comprising an outer wrapper, an exothermic material containing envelope having its face perforated, a sealing flap folded over and removably adhered to the perforated face of the envelope for sealing its perforations, an absorbent sheet adapted to be moistened and placed upon the perforated face of the envelope after the sealing flap has been stripped therefrom, and an inner flap and the said sealing flap being adapted to be folded over onto the moistened absorbent sheet.

1,920,759

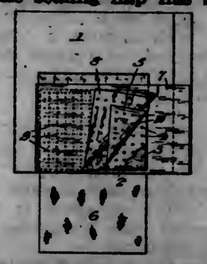
HAIR WAVING PAD

Everett G. McDonough, Mount Vernon, N. Y., assignor to Zotos Corporation, New York, N. Y., a Corporation of New York

Original application January 4, 1933, Serial No. 650,080. Divided and this application March 3, 1933. Serial No. 659,475

2 Claims. (Cl. 132—36.2)

1. A hair waving pad comprising an outer wrapper, an exothermic material containing envelope having its face perforated, a sealing flap folded over and removably adhered to the perforated face of the envelope for sealing its perforations, an absorbent sheet adapted to be moistened and placed upon the perforated face of the envelope after the sealing flap has been stripped therefrom, and an inner flap and the said sealing flap being adapted to be folded over onto the moistened absorbent sheet, said inner flap and sealing flap both being perforated.



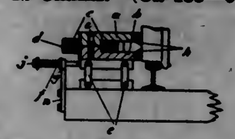
1,920,760

EDDY CURRENT CAR RETARDER

August Meyer, Berlin-Schoneberg, Germany, assignor to Gesellschaft fur Oberbauforschung und Rangiertechnik m. b. H., Berlin, Germany

Application November 11, 1930, Serial No. 494,914, and in Germany November 26, 1929

12 Claims. (Cl. 188—62)



1. An eddy current car retarder comprising a brake rail containing pole plates, various magnet cores arranged one after another along the brake rail between the pole plates, each magnet core being provided with an exciting winding.

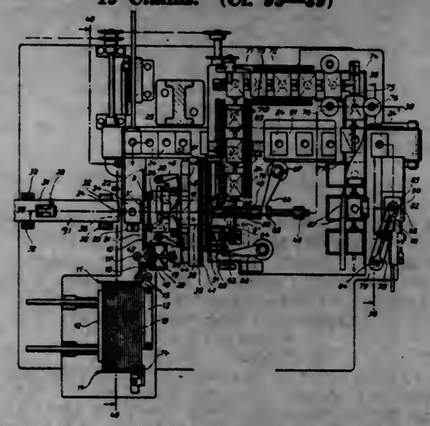
1,920,761

METHOD OF AND APPARATUS FOR THE PRODUCTION OF COVERED BOXES

Carl Wilhelm Müller, Dresden-Weisser Hirsch, Germany, assignor to the firm Universelle Cigarettenmaschinen-Fabrik J. C. Muller & Co., Dresden, Germany

Application September 7, 1929, Serial No. 391,063, and in Germany September 20, 1928

19 Claims. (Cl. 93—39)



1. In the production from foldable blanks of boxes comprising a base, a neck-forming member and a lid, uniting the structure comprising the base-forming and lid-forming blank with an open gummed neck-forming strip and shaping said parts between a shaping channel and a forming block movable along said channel to constitute a complete box structure.

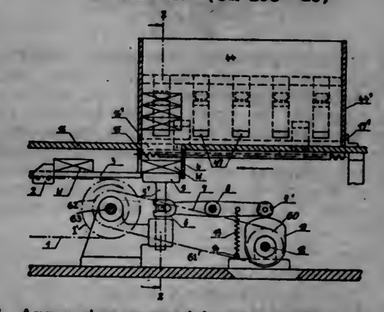
1,920,762

METHOD OF TREATING ARTICLES PRODUCED IN ONE MACHINE AND CONSUMED IN ANOTHER MACHINE

Johannes Neff, Dresden, Germany, assignor to the Firm "Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Co., Dresden, Germany

Application May 5, 1930, Serial No. 449,825, and in Germany January 13, 1930

11 Claims. (Cl. 198—19)



1. Apparatus comprising a machine for handling the articles produced in a producing machine including a collector, means for delivering the articles individually into said collector from the producing machine, means for causing said articles to be collected in separate piles, a slide on which the collector is mounted for the purpose of intermittent displacement, racks provided on said slide, pinions meshing with said racks, cams co-operating with the slide, spring clamps for holding the collectors in position and a stop rail adapted to abut against the collector.

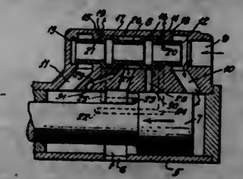
1,920,763

VALVE CONTROLLED FLUID PRESSURE TOOL

Gustave M. Nell, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey

Application April 10, 1929. Serial No. 353,928

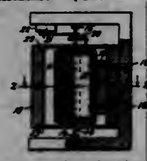
4 Claims. (Cl. 121—28)



1. A fluid pressure tool having a cylinder providing a piston chamber having a main exhaust port, a piston reciprocable in said cylinder and arranged to overrun said port, a tubular valve having motive fluid admitted to the bore thereof and controlling with its ends the distribution of the same to the opposite ends of said piston chamber, said valve having opposed shift areas, means controlled by the movement of said valve for supplying motive fluid in limited amount to said shift areas, means under control of said piston for supplying motive fluid to said areas

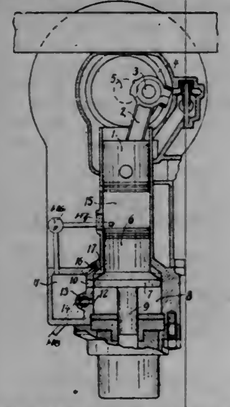
from said piston chamber, and continuously open vents of restricted size in connection with said shift areas.

1,920,764
ELECTRICAL INSTRUMENT
Clifford A. Nickle, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application October 19, 1931. Serial No. 569,616
8 Claims. (Cl. 171—95)



1. A current-responsive instrument comprising in combination, a current conducting coil, a shaft rotatably supporting said coil, and a permanent magnet of substantially circular cross section magnetized in a direction transverse to its axis, and having a coaxial opening therein to permit said shaft to be mounted substantially in the axis of said magnet, said coil surrounding said magnet so as to be in inductive relation therewith.

1,920,765
PERCUSSION TOOL
Ludvik Rasch, Oslo, Norway
Application April 30, 1930, Serial No. 448,460, and in Germany May 7, 1929
14 Claims. (Cl. 123—7)



1. In a percussion tool, the combination of means forming a percussion chamber, and including walls defining opposite ends of the chamber, a freely movable reciprocable percussion piston having a relatively large area portion slidable in the percussion chamber, relatively small area portion protruding therefrom through one of the end walls, said small area portion adapted to be exposed to exterior explosive means to move the piston on its actuating stroke, and a percussion bar of relatively small cross sectional area compared to said large area portion and projecting centrally therefrom through the other end wall, means providing an auxiliary pressure containing chamber having longitudinally spaced apart ports placing the same in communication with the portions of the percussion chamber on opposite sides of said large area portion of the piston, said piston controlling said ports and acting when closing either port to close the portion of the percussion chamber between said large area portion and the adjacent end wall to form a cushioning chamber in advance of said large area portion of the piston in each of its reciprocatory directions of movement.

1,920,766
MOTOR FUEL
Ludwig Rosenstein and Walter J. Hund, San Francisco, Calif., assignors to Shell Development Company, San Francisco, Calif., a Corporation of Delaware
No Drawing. Application September 4, 1930
Serial No. 479,796
11 Claims. (Cl. 44—9)

1. A liquid motor fuel containing a compound having a seleno cyanate radical, which imparts a high compression value to the fuel.

11. A high compression liquid motor fuel comprising hydrocarbon, in which has been incorporated dicyan diselenide.

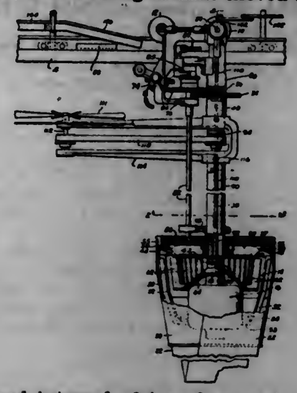
1,920,767
STOP MOTION FOR ROVING AND SPINNING MACHINES
Walter J. Scott, Woonsocket, R. I.
Application April 28, 1931. Serial No. 534,503
7 Claims. (Cl. 19—165)



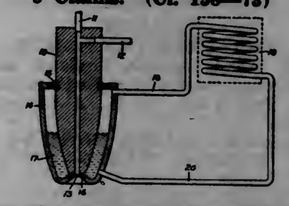
1. In a stop motion, a base, a contact element thereon, a second contact element hingedly mounted on said base and movable towards said first contact element, means operable by tensile strength of the thread for holding said second contact element away from contacting engagement, and additional means mounted on said base, movable for engaging and positively holding said second contact element away from contacting engagement.

1,920,768
APPARATUS FOR OPERATING ON SPINNING FRAMES AND OTHER MACHINES
William J. Smith, Brockton, Mass., assignor to Firth-Smith Company, Boston, Mass., a Corporation of Massachusetts
Application December 31, 1928
Serial No. 329,421
17 Claims. (Cl. 15—20)

1. Apparatus of the class described having in combination, an overhead track, an air impelling device suspended from the track and adapted to travel along the track, and means acting automatically at a predetermined point in its travel to move said device laterally with relation to the track and to its normal path of travel about a pivotal point arranged adjacent the track, maintaining it thus moved for a predetermined interval of travel so as to permit it to clear an obstruction in its path and then returning it to its initial position to cause it to resume its normal path of travel.



1,920,769
REFRIGERATED BURNER NOZZLE
Alexander R. Stevenson, Jr., Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application November 22, 1930. Serial No. 497,519
5 Claims. (Cl. 158—73)



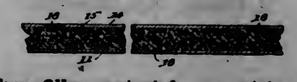
2. In an oil burner furnace, a nozzle having an opening for introducing fuel oil into the furnace, a cooling device for said nozzle including a sealed annular container surrounding the nozzle for maintaining a liquid having a boiling point below the carbonization temperature of the fuel oil in heat-conducting relation with the nozzle adjacent said opening, and a condenser for vaporized fluid communicating with said casing and disposed above the level of liquid in the path of the combustion air for the burner.

1,920,770
MECHANICAL PENCIL
Ivan D. Tefft and Kenneth S. Parker, Janesville, Wis., assignors to The Parker Pen Company, Janesville, Wis., a Corporation of Wisconsin
Application June 4, 1931. Serial No. 542,030
22 Claims. (Cl. 120—14)

2. A pencil which comprises a barrel having an open-ended portion, an elongated spare lead container frictionally and removably supported in the open-ended portion of said barrel by frictional engagement only therein, said container having both ends closed and having a slot in one side for the discharge of leads therefrom, and said container being slidably adjustable relative to the open end of said barrel to open said slot in one position and to cause said barrel to close said slot in another position, and another barrel portion detachably mounted upon said first barrel portion independently of said spare-lead container to complete the pencil barrel and to normally conceal said spare lead container.

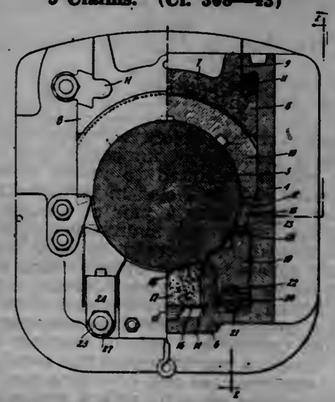


1,920,771
SHOE FILLER
Andrew Thoma, Cambridge, Mass., assignor to North American Chemical Company, Boston, Mass., a Corporation of Massachusetts
Application August 6, 1927. Serial No. 211,157
12 Claims. (Cl. 154—46)



1. A shoe filler material, comprising a sticky binder having mingled therewith finely divided solid substance normally impregnated with water containing just sufficient oil to make the particles slippery.

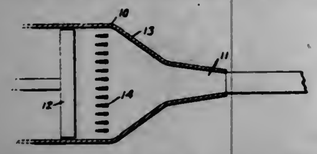
1,920,772
LOCOMOTIVE DRIVING BOX
Harry S. Vincent, Ridgewood, N. J.
Application August 12, 1927. Serial No. 212,439
5 Claims. (Cl. 308—43)



1. In a locomotive driving box closed at the bottom and having upwardly extending legs, a pair of spaced walls extending upwardly from said bottom, said walls cooperating with each other to form a lubricator pocket and with said

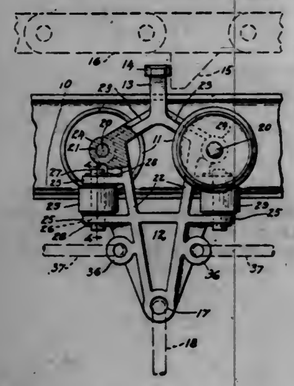
legs to form a bearing pocket on each side of said lubricator pocket, all of said parts being formed integrally.

1,920,773
GRANULE AND METHOD OF PRODUCING SAME
Samuel F. Walton, Hamburg, N. Y., assignor, by mesne assignments, to The Patent and Licensing Corporation, New York, N. Y., a Corporation of Massachusetts
Application July 3, 1930. Serial No. 465,528
11 Claims. (Cl. 25—156)



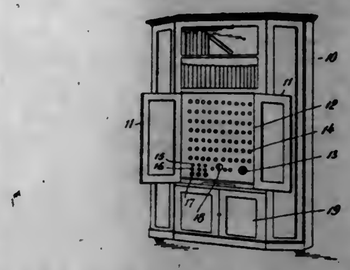
1. The process of producing granules suitable for roofing purposes or the like which comprises extruding a bar of plastic clay-like material of laminated structure, subjecting said bar to sudden heat whereby to set up expansive forces within the bar, effective to cause surface disruption of the bar into granular particles.

1,920,774
TROLLEY FOR CONVEYER SYSTEMS
Jervis B. Webb, Royal Oak, Mich.
Application November 2, 1931. Serial No. 572,866
1 Claim. (Cl. 105—155)



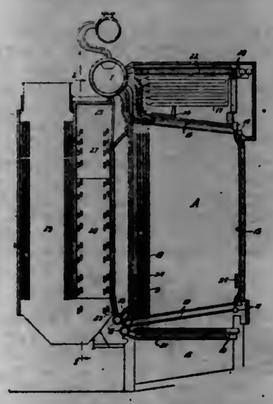
A load carrying trolley assembly of the type wherein a plurality of flangeless load carrying trolley wheels mounted to rotate upon horizontal axes and supported in juxtaposition to a conveyer chain upon a pair of parallel spaced supporting tracks are maintained against excessive movement laterally to said tracks by auxiliary rollers rotating upon vertical axes and located between the opposed edges of said tracks characterized by said wheels and rollers being mounted upon a one piece frame having formed integrally therewith a pair of bearings for said trolley wheels, a pair of spaced lugs located below each of said bearings and providing bearings for the axles of said auxiliary rollers, and said frame also being provided with an upward extension midway between said trolley wheels for engagement by said conveyer chain and means for securing a load to said frame located in vertical alignment with said extension.

1,920,775
CENTRALIZED RADIO SYSTEM
James Leonard Whittaker, Allendale, N. J., assignor of one-third to Ralph E. Hantzsch, Springfield, N. J., and one-third to Dallas R. Lamont, Brooklyn, N. Y.
Application December 11, 1930, Serial No. 501,551
Renewed October 28, 1932
13 Claims. (Cl. 179—1)



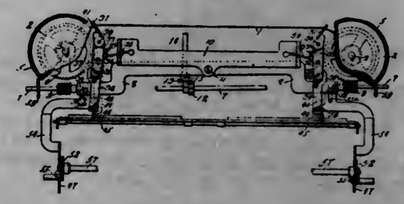
1. A centralized system of the character disclosed which comprises a plurality of primary circuits, a plurality of load circuits, an individual selector switch associated with each load circuit having a plurality of positions for the selection of a desired primary circuit, and a master switch having at least one position which serves to connect a plurality of said primary circuits to different respective positions of said individual selector switches, whereby the said individual selector switches are operative to select a desired primary circuit.

1,920,776
HIGH PRESSURE BOILER
Wilfred R. Wood, London, England, assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware
Application April 2, 1930. Serial No. 440,883
3 Claims. (Cl. 122—235)



1. In a high pressure reheat-type boiler installation; a generally box-like combustion chamber substantially completely defined, in its upright walls, by rows of tubes adapted for radiant heat transfer; a water wall at the bottom of the chamber; a plurality of water tubes extended across an upper portion of the chamber; means for burning fuel in suspension in said chamber; a superheater above the tubes last mentioned; an offtake communicating with the chamber laterally of said superheater and having a pass extended downwardly adjacent one side wall of the chamber and a pass extended upwardly for discharge of the products of combustion, whereby to provide a generally compact installation; a reheater in an advance portion of the first pass of said offtake including tubes extended generally transversely of the direction of flow through said pass; by-pass means associated with a portion of the reheater tubes, the remainder of the reheater tubes and said by-pass means being constructed to provide for the passage of substantially all products of combustion through the said remainder with different adjustments of said by-pass means; and additional heat absorption elements in the second pass of the offtake; whereby nearly the whole of the heat available from the fuel and flame stream and products of combustion is transferred to the water tubes defining the combustion chamber by radiation and to the superheater and the reheater by convection.

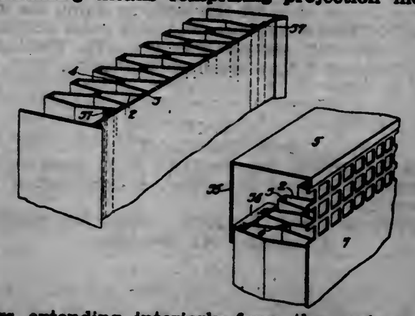
1,920,777
TYPEWRITER
John H. Barr, Ithaca, N. Y., assignor to Barr-Morse Corporation, Ithaca, N. Y.
Application May 19, 1930. Serial No. 453,444
12 Claims. (Cl. 197—165)



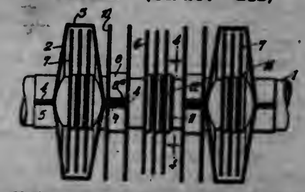
5. In a typewriter, a pair of spools, a ribbon connected at its ends to said spools and extending between them, whereby the ribbon may be wound alternately on said spools, a carriage, means operable from said carriage for operating said spools to wind the ribbon in accordance with the travel of the carriage, and adjustable to vary the direction of winding of said ribbon on said spools, a plurality of printing devices, a universal bar operable by any of said printing devices, carriage letter spacing mechanism, members directly operable upon said spool operating means to cause a reversal in the direction of travel of said ribbon at a single operation of either member, and shiftable positively by said ribbon into and out of positions in which they are directly operated by said universal bar and said carriage spacing mechanism, to cause reversal in the direction of travel of said ribbon.

1,920,778
CASING OR COVER FOR RADIATORS
Irving T. Bennett, Brooklyn, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, a Corporation of Delaware
Application November 16, 1927. Serial No. 233,594
3 Claims. (Cl. 237—79)

1. In a casing for a radiator, comprising top, front and side sections one of which is perforated at least in part to permit the egress of heated air, means to support the casing upon a radiator, and means to restrain the same from lateral displacement thereon, said supporting and restraining means comprising projection members extending interiorly from the casing and adapted to engage a radiator surface.

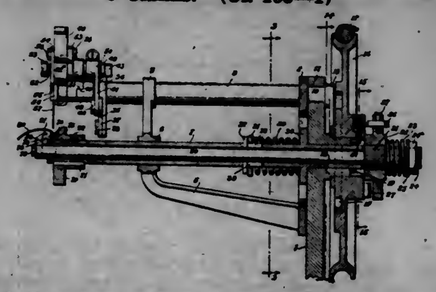


1,920,779
RADIATOR
Irving T. Bennett and Frank C. Reynolds, Brooklyn, N. Y., assignors, by mesne assignments, to American Radiator & Standard Sanitary Corporation, a Corporation of Delaware
Original application July 12, 1928, Serial No. 292,309. Divided and this application December 12, 1929. Serial No. 413,473
6 Claims. (Cl. 257—141)



6. A radiator comprising a tubular heating element and an extended area structure applied thereto comprising laterally extending fins with flanges at one edge surrounding said tube and fastening rings embracing said flanges and compressed thereon to form circumferential grooves in the flanges and corresponding grooves in the tubular heating element so that the flanges engage the heating element with an intimate heat conducting relation and are mechanically locked by said grooves in such relation.

1,920,780
MACHINE FOR AFFIXING FRAMES TO BAGS OR PURSES
Salvatore Cardinale, Copiague, N. Y., assignor to Cardinal Machine Co. Inc., New York, N. Y., a Corporation of New York
Application January 5, 1932. Serial No. 584,888
8 Claims. (Cl. 153—1)



1. In a machine for attaching frames to bags, the combination with means for inserting a por-

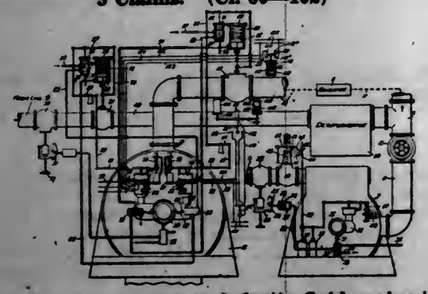
tion of the bag in the frame, means for squeezing the frame to cause the same to clamp the inserted portion of the bag, and means for shifting the frame and bag progressively with the bag-insertion and frame-bending operations.

1,920,781

POWER PLANT

Reed J. Caughey, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York

Application April 28, 1932. Serial No. 608,025
5 Claims. (Cl. 60—102)



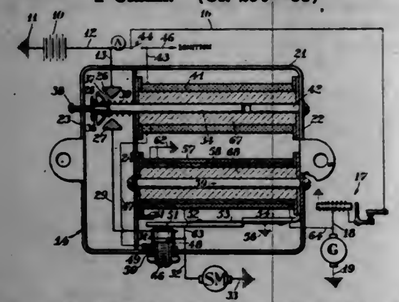
1. In a cross-compound elastic-fluid engine including a high pressure and a low pressure engine, a conduit including a reheater for conveying exhaust of the high pressure engine to the low pressure engine, means for supplying live elastic fluid to the low pressure engine, said means including a second conduit and a desuperheater connected to the first-named conduit at a point ahead of the reheater as regards the direction of flow of fluid, valve means in the first-named conduit, intercepting valve means in the first named conduit provided near the inlet of the low pressure turbine for regulating the flow of fluid through the second conduit, speed-governing means driven by the low pressure turbine for controlling said valve means, and means for adjusting the speed-governing means in response to changes in flow of elastic fluid through the first named conduit.

1,920,782

AUTOMATIC STARTING SYSTEM FOR INTERNAL COMBUSTION ENGINES

Frank T. Christian, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York

Application December 19, 1930. Serial No. 503,432
1 Claim. (Cl. 290—38)



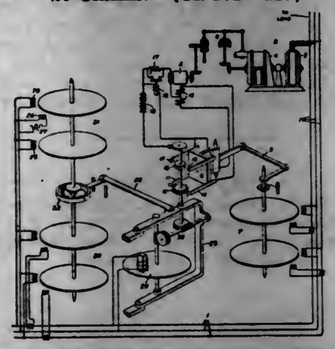
In an automatic starting system for internal combustion engines, a starting motor, a switch for controlling said motor, electromagnetic means for operating said switch, and means including an electromagnetic relay for controlling said operating means to open the switch when the engine starts and to close the switch in case the engine stalls, the electrical characteristics of the operating means and of said relay being so designed as to cause retardation of the action thereof, said retardations being cumulative with respect to the closure of the starting switch when the engine stalls.

1,920,783

ELECTRICAL REGULATOR

Alan G. Darling, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York

Application December 31, 1931. Serial No. 584,072
20 Claims. (Cl. 171—119)



1. A regulator having, in combination, a pair of cooperating contacts, means for moving one of said contacts in accordance with changes in the instantaneous value of a quantity to be regulated, and means for moving the other contact in accordance with changes in the integrated value of a quantity to be regulated.

1,920,784

HEMSTITCH AND EMBROIDERY SEAM

Albert H. De Voe, Westfield, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey

Application April 23, 1932. Serial No. 607,058
7 Claims. (Cl. 112—266)



1. A body-material provided with a row of hemstitch-seam apertures with intervening cross-bars which are individually bound by the concatenated loops of a single-thread chain-stitch seam anchored in the body-material adjacent each of said apertures.

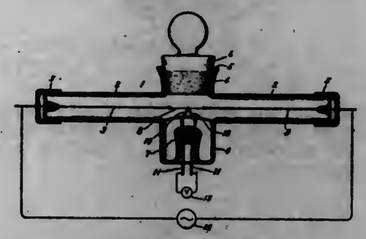
1,920,785

HIGH FREQUENCY CURRENT MEASURING APPARATUS

Warren A. Ford, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York

Application November 1, 1929. Serial No. 404,194
1 Claim. (Cl. 136—4)

In apparatus for measuring alternating current of radio frequencies, a hermetically sealed envelope constituted of a relatively long glass tubing closed at both ends, an arm projecting substantially normal to and substantially from the middle of said tubing and terminating in a reentrant stem, a heater member and thermocouple within the envelope, leading-in wires for the heater member passing substantially in rectilinear alignment through the ends of the glass



tubing, leading-in wires for the thermocouple fused in the reentrant stem, said glass tubing being provided with an opening of a size sufficient to allow access to the junctions between the said wires and the heater member and also the thermocouple, said opening being in alignment with said junctions and adapted to be hermetically closed.

1,920,786

CONTAINER OF THE HAND OPENING AND CLOSING TYPE AND COVER THEREFOR

Amos V. Green, Denver, Colo.

Application April 5, 1930. Serial No. 441,799
1 Claim. (Cl. 229—5.5)



A combination in a paper container and its cover, of the body portion of the container having a straight rearwardly and upwardly inclined circumferential surface at its open circumferential edge, said edge being folded over inwardly against the inner surface of the container, and pressed tightly against the said edge portion, thus stiffening and strengthening said edge of the body of said container, the said upwardly extending inclined portion of said end portion having a straight flat upwardly inclined surface extending circumferentially around the body of said container and blending at its upper and highest edge portion into a long straight circumferential portion of greater diameter than the body of the container, with a cover member for the body member of said container, said cover having a straight vertical inner side that at its outer edge is of a diameter to fit loosely over the end of the upwardly inclined tapering edge of the body portion of the container and arranged to engage and bear against the upwardly and backwardly inclined surface of the tapering end of said container and slide upon it to the top of the said enlarged long portion of the body of the container when the cover is pressed down over it, whereby a long liquid tight joint is made between the body of the container and its cap.

1,920,787

PROCESS OF OBTAINING PURIFIED SULPHONIC ACIDS

Eduard Josef Hammers and Egon Eichwald, Amsterdam, Netherlands, assignors, by mesne assignments, to The Flintkote Corporation, Boston, Mass., a Corporation of Massachusetts

No Drawing. Application November 1, 1929, Serial No. 404,197, and in the Netherlands April 30, 1929
3 Claims. (Cl. 260—159)

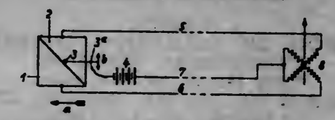
1. The method of separating and purifying the organic acids present in acid sludge resulting from the treating of hydrocarbon oil with sulphuric acid, comprising treating the sludge with water to separate the bulk of the free sulphuric acid in a dilute condition, separating the dilute acid from the impure organic acids, adding water and tar oil together with a small quantity of organic nitrogen base to the separated impure acids to cause separation of an aqueous layer containing the impurities and an oily layer containing the purified organic acids, separating the layers and finally removing the oil from the purified acids.

1,920,788

DEVICE FOR TRANSMITTING MEASURED VALUES TO A DISTANT POINT

Herbert Hausrath, Karlsruhe, Germany, assignor to the Firm Neufeldt & Kuhnke G. m. b. H., Kiel, Germany

Application December 14, 1929, Serial No. 414,200, and in Germany December 20, 1928
7 Claims. (Cl. 177—351)



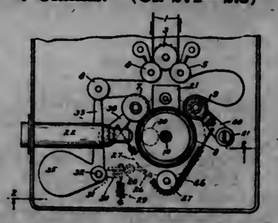
1. Arrangement for transmitting measured values, comprising a transmitter having means for transmitting two periodically recurrent impulses of a gradually variable ratio of duration, including movable means for varying such ratio, an indicator of the values to be transmitted and means for operating said movable means by said indicator in accordance with such values, and a receiver for said current impulses of a type responsive to the quotient of the energies supplied to it by said impulses and line conductors between said transmitter and said receiver for transmitting said impulses.

1,920,789

FILM DRIVING APPARATUS

Charles L. Heisler, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York

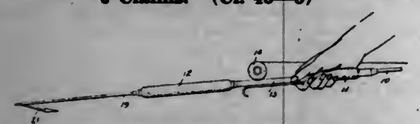
Application December 28, 1929. Serial No. 417,212
7 Claims. (Cl. 271—2.3)



1. In apparatus for recording sound on a film and for reproducing sound from a record film including a sprocket and a drum arranged to en-

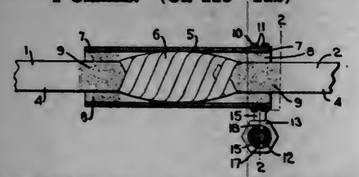
gage a film at spaced points thereof, means for regulating the speed of the drum in accordance with the speed of the film as moved by the sprocket, including a brake and a controlling member therefor movable in response to changes in the length of the film between the sprocket and drum and having a mass operative to maintain the controlling member in contact with the film and to control the pressure applied by the brake, the mass of said member serving to render the brake substantially unresponsive to sudden small variations in the speed of the film.

1,920,790
GAFF
Leland W. Hendrie, Philadelphia, Pa.
Application May 25, 1931. Serial No. 539,920
6 Claims. (Cl. 43—5)



1. The combination with a fishing pole, having a tubular handle open at the end opposite the pole, a spring within the tubular handle, a shaft within the tubular handle adapted to place the spring under tension, a gaff carried pivotally by the shaft, a spring tending to move the gaff upon its pivot, and means to lock the shaft within the tubular handle.

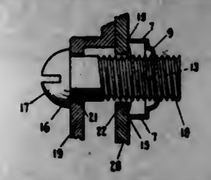
1,920,791
METHOD OF SOLDERING TOGETHER CYLINDRICAL SURFACES
Philip Hogan, Newton, Mass.
Application May 13, 1931. Serial No. 537,013
4 Claims. (Cl. 113—112)



1. The steps in the method of making a spliced joint in a transmission cable having a lead sheath which consists in applying a coating of solder material to the inside of the joint sleeve at the ends thereof and also to the exterior of the sheath of the cable ends at the portion where said sheaths are to be soldered to the sleeve, placing the sleeve in its proper position relative to the joint, reducing the diameter of the sleeve at its ends to fit the enclosed sheath, heating the sleeve ends sufficiently to fuse the soldering material, and pressing the reduced ends of the sleeve firmly against the sheath as the solder fuses.

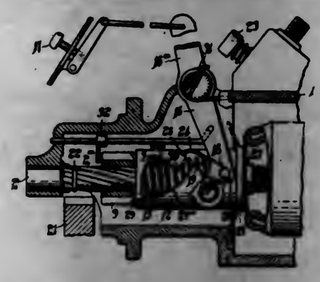
1,920,792
NUT LOCK
James Rowland Hotchkin, Montclair, N. J., assignor to The Palnut Company, a Corporation of New Jersey
Application December 18, 1929. Serial No. 414,859
3 Claims. (Cl. 151—37)

1. A locking nut made of sheet metal comprising flat sides substantially parallel to the axis of the nut and a top with an opening therein, said sides enclosing a hollow space, said top being formed into a dome from spring members whose upper sides are convex and adapted to fit a screw thread, said members being outside of said space and surrounding an opening to said space, one side of said dome being higher than



the other, and the intersection of said sides having corners forming anchor feet lower than the sides, for engagement with a surface against which the nut is to be forced.

1,920,793
ENGINE STARTER
Maunsell B. Jackson and Kenneth M. Clipsham, Toronto, Ontario, Canada, assignors to Leaside Engineering Co. Limited, Leaside, Ontario, Canada
Application October 15, 1929. Serial No. 399,845
39 Claims. (Cl. 74—7)

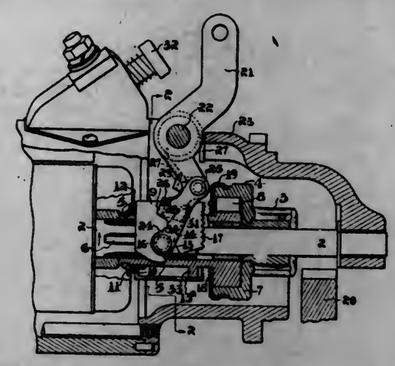


1. In a mechanism for connecting a rotatable device with a gear, the combination with a pinion slidably connected with said device and adapted to be shifted into engagement with the gear, of manually operable means for shifting said pinion into engagement with the gear, said manual means including provisions which operate in case the pinion collides with the gear to produce rotation of said pinion in one direction of rotation while said pinion is pressed against the gear whereby said pinion may be brought into enmeshing relation with the gear, the said manual means also including provisions which operate in case a corner of a pinion tooth has jammed against a corner of a gear tooth to produce rotation of said pinion in a direction of rotation opposite to the first mentioned direction of rotation whereby said pinion will be moved to release the corner jam.

1,920,794
ENGINE STARTER
Maunsell B. Jackson and Kenneth M. Clipsham, Toronto, Ontario, Canada, assignors to Leaside Engineering Co. Limited, Leaside, Ontario, Canada
Application April 7, 1930. Serial No. 442,398
20 Claims. (Cl. 74—7)

1. An engine starter including a rotatable shaft having a starter pinion mounted thereon for meshing with a gear of an engine to be started; and means for axially moving the pinion and for rotating it first in one direction of rotation in

case the pinion collides with the gear, the said means including an arm having a hinged extension adapted, upon the turning movement of the



pinion in the first direction being stopped, to move relative to the arm to reverse the direction of rotation of the pinion.

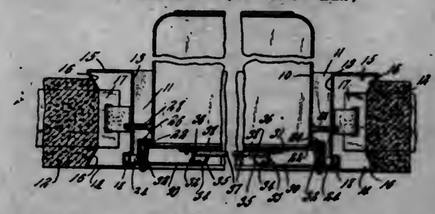
1,920,795
PRODUCTION OF HYDROCYANIC ACID
Alphons O. Jaeger, Mount Lebanon, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware
No Drawing. Application September 16, 1929 Serial No. 393,118
14 Claims. (Cl. 23—151)

1. A method of producing hydrocyanic acid which comprises passing a mixture selected from the group consisting of carbon monoxide and ammonia; oxides of nitrogen and aliphatic hydrocarbons; and formamid over a contact mass containing at least one multi-component zeolite with which a dehydration catalyst is associated at temperatures of 400–900° C.

1,920,796
PURIFICATION OF ORGANIC COMPOUNDS
Alphons O. Jaeger, Mount Lebanon, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware
Original application November 21, 1927, Serial No. 234,660. Divided and this application September 28, 1929. Serial No. 395,967
5 Claims. (Cl. 260—168)

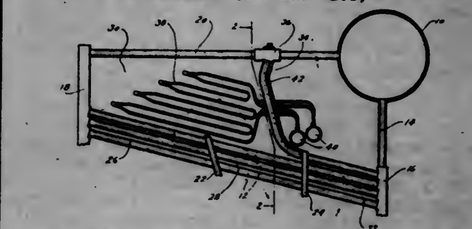
1. A method of purifying polynuclear hydrocarbons containing impurities more readily oxidized than they themselves which comprises passing them in vapor phase and admixed with air through a bed of catalyst in direct physical contact therewith, the temperature of the bed being maintained at the desired value for selective oxidation of the impurities by conducting such portion of at least one of the gaseous components of the mixture as the exotherm of the reaction may require into the bed in indirect heat exchange relation with catalyst, reversing the direction of flow of the gas at a point materially spaced from the surface of the catalyst and conducting it toward said surface in direct heat exchange relation but without physical contact with the catalyst, then releasing it adjacent to said surface of the catalyst to permit it to flow therethrough as specified, said surface of the catalyst thus being maintained comparatively hot while the body thereof is comparatively cool.

1,920,797
CABINET AND ANALOGOUS DEVICE
James R. Jones, Jamestown, N. Y., assignor to Art Metal Construction Company, Jamestown, N. Y.
Application March 31, 1931. Serial No. 526,589
9 Claims. (Cl. 312—112)



6. The combination of a case, a frame in which the case is arranged with space between the case and the frame permitting adjustment of the case within the frame, and a front flange removably secured to the front end of the case and projecting outwardly therefrom into a recess in the inner perimeter of said frame.

1,920,798
BAFFLE FOR STRAIGHT TUBE BOILERS
James F. Kavanagh, Calumet City, Ill., assignor to The Superheater Company, New York, N. Y.
Application February 2, 1932. Serial No. 590,361
2 Claims. (Cl. 122—478)

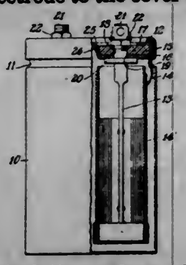


1. A boiler of the type having a bank of horizontally inclined straight generating tubes, a steam and water drum, means for connecting the ends of said tubes to said drum to complete the circulation therethru, baffling arranged to provide up and down passes for gases thru said bank, said baffling including tubes extending at a sharp angle upward away from said generating tubes, means for causing a thermal circulation thru the tubes in said baffling, and a superheater having headers lying on one side of the tubes in the baffling and its heating surface on the other side thereof.

1,920,799
SEAL FOR ELECTROLYTIC CONDENSERS
Julius Edgar Lilienfeld, Winchester, Mass., assignor to The Amrad Corporation, Medford Hillside, Mass., a Corporation of Ohio
Application July 25, 1929. Serial No. 380,844
10 Claims. (Cl. 175—315)

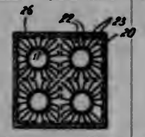
1. In an electrolytic condenser having a metal shell affording a container for the electrolyte, adapted to be turned over at its upper edge and provided with an inwardly directed support below said edge: a sealing cover member for the condenser carried by said support and comprising a disk of rigid material, an enveloping cap of elastic material covering entirely the inner face and sides of the disk with inwardly turned flange extending partly over the outer face of the disk, the

top edge of the cell being adapted to be crimped thereover to clamp the said cover member between it and the support to effect a seal therebetween, and the said disk and cap being provided with registering electrode perforations, and means to secure an electrode to the cover elements.



4. In an electrolytic condenser having a metal shell affording a container for the electrolyte, adapted to be turned over at its upper edge and provided with an inwardly directed support below said edge: a sealing cover member for the condenser carried by said support and comprising a disk of rigid material and an enveloping cap of elastic material covering entirely the inner face and sides of the disk with inwardly turned flange extending partly over the outer face of the disk, the top edge of the cell being adapted to be crimped thereover to clamp the said cover member between it and the support to effect a seal therebetween, and the said disk and cap being provided with registering electrode perforations, means to secure an electrode to the cover elements, and a vent opening provided in the disk cooperating with a rupturable portion of the base of the cap.

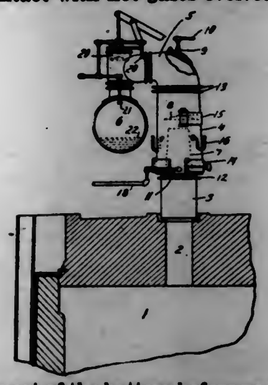
1,920,800
HEAT EXCHANGER
John Woods McCausland, Chicago, Ill., assignor to The Griscom-Russell Company, New York, N. Y., a Corporation of Delaware
Application August 7, 1931. Serial No. 555,700
2 Claims. (Cl. 257—247)



1. In a heat exchanger, the combination of a shell and a tube bundle within said shell and substantially filling the same, said bundle comprising a plurality of tubes and a plurality of longitudinally extending fins on each of said tubes, at least some of said fins having a radial flank portion and a lip portion at the outer edges of the flank portion extending at an angle to the flank portion, said finned tubes each having a rectilinear contour whereby the finned tubes may be nested in close proximity to each other with a minimum of space for the by-passing of fluid therebetween.

1,920,801
DISTILLATION OF TAR, ETC.
Stuart Parmelee Miller, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey
Original application December 31, 1926, Serial No. 158,137. Divided and this application June 7, 1929. Serial No. 369,193
8 Claims. (Cl. 202—84)

1. A by-product coke oven battery which comprises means to remove tar from the gases from the ovens of part of the battery thereby producing a cooled vapor-containing gas, means to bring tar into contact with hot gases evolved by ovens



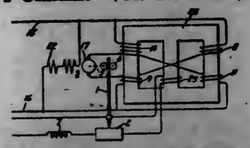
of another part of the battery before passing them through cooling means and means to condense vapors obtained from such contact separately from the vapors contained in said cooled gas.

1,920,802
HAND BAG
Samuel Miller, New York, N. Y.
Application February 6, 1933. Serial No. 655,436
4 Claims. (Cl. 150—34)



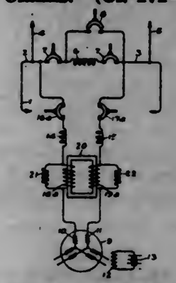
1. The combination with a handbag, of an open-sided casing member secured to the inner face of the front wall of the bag, a sliding receptacle positioned in said casing, and a finger piece attached to the sliding receptacle and extending through the front wall of the handbag, the said wall being provided with an elongated slot for said finger piece to accommodate the movements of the latter.

1,920,803
CONTROL SYSTEM FOR ALTERNATING CURRENT MOTORS
Boris V. Nagashev, Lynn, Mass., assignor to General Electric Company, a Corporation of New York
Application October 11, 1930. Serial No. 488,077
4 Claims. (Cl. 172—274)



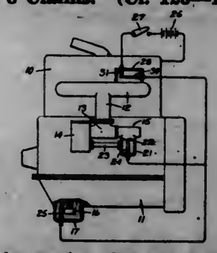
1. A motor control system comprising an alternating current motor, a bridge circuit, means for connecting said motor in said circuit, a coil in said circuit, a magnetic structure for said coil, a magnetizing winding on said magnetic structure, means for connecting said magnetizing winding and said bridge to a source of alternating current electromotive force and means for regulating the energization of said magnetizing winding.

1,920,804
SYSTEM OF DISTRIBUTION
Leo H. Perry, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application November 19, 1931
Serial No. 576,132
10 Claims. (Cl. 171—97)



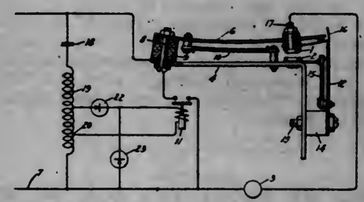
10. In combination, a source of alternating current comprising two separately insulated generating circuits, a distribution system connected to be energized from said circuits, inductive means for interconnecting said generating circuits having two windings in series, respectively, with corresponding phase windings of said generating circuits arranged so that for a predetermined distribution of the currents of said generating circuits the resultant magnetomotive force of said inductive means is substantially zero, normally closed switches associated with said generating circuits responsive to an abnormal flow of current in said distribution system for insolating said generating circuits, means responsive to the isolation of either of said generating circuits for short circuiting said windings in series with the phase windings of one of said generating circuits, and means having a positive non-linear volt-ampere characteristic in parallel relation with with said last mentioned means for limiting to a safe value the voltages induced in the windings of said inductive means during the interval of time between the isolation of either of said generating circuits and the short circuiting of said windings.

1,920,805
HEATING SYSTEM FOR INTERNAL COMBUSTION ENGINES
Charles P. Randolph, Oak Park, Ill., assignor to Edison General Electric Appliance Company, Chicago, Ill., a Corporation of New York
Application March 15, 1932. Serial No. 598,926
8 Claims. (Cl. 123—196)



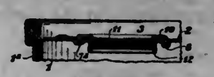
1. A heating system for an internal combustion engine comprising heating means arranged to heat and vaporize fuel before it is supplied to said engine, heating means arranged to heat the lubricating medium of said engine and means dependent upon the temperature of a portion of said engine normally heated by the operation thereof for controlling both of said heating means.

1,920,806
CONTROL DEVICE
Theodore A. Rich, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application September 1, 1931. Serial No. 560,672
10 Claims. (Cl. 200—122)



8. The combination, in a thermo-relay, of a pair of thermo-electric devices each of said devices having a heat responsive member, said members being arranged at an angle to each other, and each of said members being biased to a normal position and operable in response to heat to a second position, and one of said members being arranged in its normal position to support the other member in its second position, and in response to heat to release said second member whereby said second member is operated under its bias to its normal position, a heating circuit for said thermo-electric devices, said heating circuit including a switch arranged to disconnect one of said devices from the circuit while the other device is connected in the circuit, said switch being interposed between said members whereby it is maintained closed when said second member is supported by said one member and is opened when said second member is released.

1,920,807
CONTAINER
Fredrick J. Runser and Rudolph Blaho, Cleveland, Ohio, assignors to The Byrne Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio
Application December 6, 1930. Serial No. 500,487
3 Claims. (Cl. 285—49)



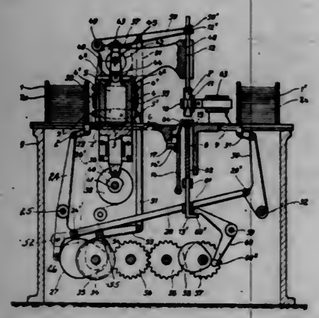
1. A container having a sheet metal wall formed with an opening and provided with a neck surrounding said opening, the metal of the wall surrounding said neck being formed with a plurality of depressions disposed concentrically to said neck, a bung comprising a body adapted to be formed of sheet metal and fitting into said neck and having a rim at one end secured to said neck and a flange at its other end, and an inwardly extending collar on said flange provided on its free edge with projections which fit into said depressions and interlock the bung and wall together.

1,920,808
SURGICAL BANDAGING
Eugen Sander, Munich-Menterschwaige, Germany
Application May 10, 1930, Serial No. 451,442, and in Germany May 10, 1929
1 Claim. (Cl. 128—154)



A surgical dressing comprising an adhesive plaster having an opening therein, a ring of resilient material engaging a face of the plaster about said opening, a layer of dressing material overlying said opening on the opposite face of the plaster and a second adhesive plaster overlying said dressing material and removably attached to the first plaster.

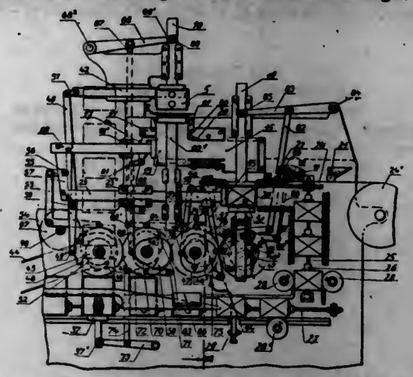
1,920,809
METHOD OF PRODUCING BOX OR CONTAINER PARTS HAVING A CURVED BOTTOM
Johannes Schmiedel, Dresden, Germany, assignor to the Firm Universelle Cigarettenmaschinen-Fabrik J. C. Muller & Co., Dresden, Germany
Application February 18, 1930, Serial No. 429,250, and in Germany February 26, 1929
8 Claims. (Cl. 93—36)



1. A method of producing box or container parts having a curved face consisting in folding a box blank already curved as regards a portion thereof about a forming block having a wall whose shape corresponds to the curved portion of said blank.

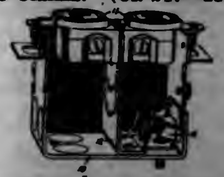
1,920,810
PROCESS FOR MAKING CIGARETTE CARTONS
Johannes Schmiedel, Dresden, Germany, assignor to the Firm Universelle Cigarettenmaschinen-Fabrik, J. C. Muller & Co., Dresden, Germany
Application September 23, 1930, Serial No. 483,772, and in Germany October 1, 1929
6 Claims. (Cl. 93—39)

1. A process of making cigarette cartons without inserted neck strips comprising arranging a box blank having a longitudinal wing provided with a neck portion and a lid blank also having a longitudinal wing so that the said neck portion overlies the latter named longitudinal wing, then folding the blanks about a form and enclosing the latter, then binding the folded blanks together,



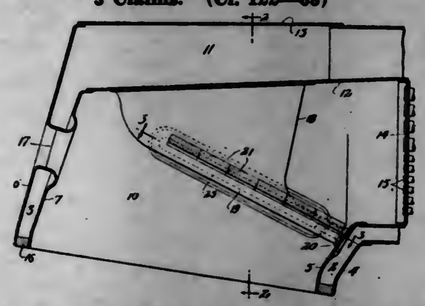
then cutting open the so bound folded blanks along three edges and then removing the form.

1,920,811
OUTLET BOX
Gerhard P. Schwabacher, Bridgeport, Conn., assignor to General Electric Company, a Corporation of New York
Application October 26, 1931. Serial No. 571,072
3 Claims. (Cl. 247—15)



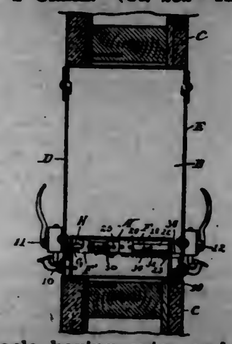
1. In combination, an outlet box, a wiring device secured in said box, a partition separating said box into two compartments and having a U-shaped top with the sides of the U-engaging grooves in the sides of the wiring device, and means including a cable clamp to secure said partition in said box.

1,920,812
LOCOMOTIVE
Chester A. Siegel, Newark, and John P. Neff, East Orange, N. J., assignors to American Arch Company, New York, N. Y., a Corporation of Delaware
Application March 14, 1930. Serial No. 435,704
3 Claims. (Cl. 122—68)



1. A locomotive fire-box construction having side wall water legs spaced from each other different distances as between an upper rear portion of the box and a lower forward portion thereof, an arch brick supporting structure intermediate said side water legs and extended generally from an upper rear portion of the box forwardly and downwardly to a lower forward portion thereof, an arch brick supporting element in the form of a water leg communicating with a side water leg, extended similarly to said structure from an upper rear portion of the box forwardly and downwardly to a lower forward portion thereof and varying in width to present an inner arch brick supporting edge generally parallel to said structure, and refractory arch bricks having opposite ends supported on said structure and said element, whereby bricks of uniform dimensions transversely of the fire-box may be employed substantially throughout the length of the refractory arch.

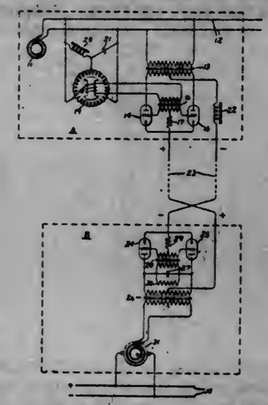
1,920,813
RECEPTACLE LOCK
Earl W. Storms, Los Angeles, Calif.
Application July 20, 1931. Serial No. 551,865
1 Claim. (Cl. 232—41)



A receptacle having outer and inner doors, means for releasably fastening said doors closed, and mechanism for locking said outer door in closed position, said mechanism comprising, a catch member projecting inwardly from said outer door, a latch hinged in said receptacle to swing vertically and laterally into substantially horizontal normal position for cooperative engagement with said catch when the outer door is closed, means urging said latch into said normal catch engaging position, depressible means actuated by the opening movement of said inner door for swinging said latch vertically out of the path of and out of engagement with said catch when the inner door is opened and releasing said latch to move into catch engaging position when the inner door is closed, a block slidably supported on said latch and adapted to move forwardly and close the entrance into the latch when the latter tends to swing into catch engaging position, and a spring mounted to slide said block forwardly into blocking position and permitting said block to retract under the action of said catch entering into engagement with said latch after the outer door has been opened and again closed following the closing of the inner door.

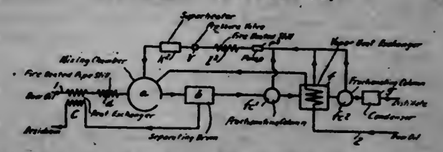
1,920,814
ELECTRIC DISTRIBUTION SYSTEM
Charles W. Stone, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application February 17, 1931. Serial No. 516,391
6 Claims. (Cl. 171—97)

3. A system of electrical distribution comprising synchronous generating equipment, a synchronous consumption machine remote from said generating equipment, and means for non-synchronously energizing said consumption machine from said generating equipment comprising means for rectifying the output of said generating equipment, a direct current feeder circuit



for transmitting said rectified energy to said consumption machine, and means for inverting said rectified current to alternating current of a frequency dependent upon an electrical condition of said system for energizing said consumption machine.

1,920,815
DISTILLATION OF CRUDE OILS
Frank Tinker, Streetly, England, assignor to Sinclair Refining Company, New York, N. Y., a Corporation of Maine
Original application February 9, 1927, Serial No. 167,047. Divided and this application September 9, 1930, and in Great Britain April 28, 1926. Serial No. 480,716
5 Claims. (Cl. 196—58)



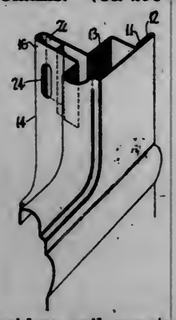
1. In the distillation of mineral oils, the improvement which comprises passing a stream of raw oil through a heating zone into a mixing zone and heating it to a distillation temperature in the heating zone, introducing a hot oil mixture including this thus heated raw oil from the mixing zone into a separating zone, discharging residuum from the separating zone, taking off vapors from the separating zone and partially condensing the same, passing a stream of condensate from this partial condensation through a fire-heated heating zone separate from the first mentioned heating zone and heating it to a cracking temperature under superatmospheric pressure therein, reducing the pressure on the hot oil products discharged from this fire-heated heating zone, passing a stream of these hot oil products under reduced pressure through another fire-heated heating zone separate from the first mentioned heating zone and heating it to a higher cracking temperature therein, introducing the hot oil products from the last mentioned fire-heated heating zone into the mixing zone and taking off vapors from the partial condensation and condensing the same.

1,920,816

VEHICLE DOOR CONSTRUCTION

George Trautvetter, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania

Application January 16, 1932. Serial No. 586,998
3 Claims. (Cl. 296—44)



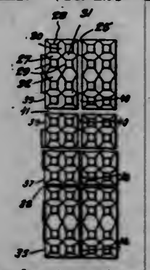
1. A metal widow rail construction built up of inner and outer stampings, the inner stamping having a transverse web portion forming the jamb portion of a door and its inner edge reversely bent, the reversely bent portion being spaced from the transverse web portion, the outer panel stamping being formed along one margin of double angular form, the reverse bent portion of the inner panel overlapping and secured to an intermediate portion of said double angular margin, and the edge of the outer panel secured to said jamb portion of the inner panel, openings being provided in the reversely bent portion of the inner stamping to permit access of a tool for securing the edge of the outer stamping to the jamb portion of the inner stamping.

1,920,817

FIRE BOX CONSTRUCTION

Myron P. Van Woert, Cleveland, Ohio, assignor, by mesne assignments, to Waugh Equipment Company, New York, N. Y., a Corporation of Maine

Application December 6, 1929. Serial No. 412,115
7 Claims. (Cl. 126—163)



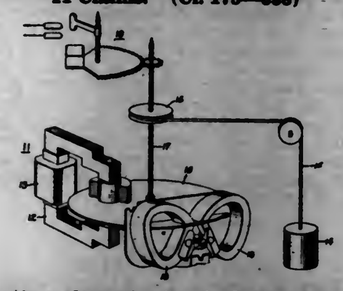
1. In a fire-box having an exit opening for gases of combustion, a grate made up of a plurality of individual grate bars, each of which has a fuel-supporting surface made up of a plurality of minor areas and also a plurality of openings for the passage of air around all sides of said minor areas, the aggregate areas of the fuel-supporting surfaces of the several bars being the same, with the aggregate areas of the air openings in a unit of grate surface adjacent the exit opening being less than those in a unit of grate surface more remote from said exit opening in a direction lengthwise of the grate.

1,920,818

ELECTRORESPONSIVE DEVICE

Victor E. Verrall, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York

Application April 26, 1932. Serial No. 607,584
11 Claims. (Cl. 175—338)



1. A time element relay including a rotatably mounted induction disk and actuating means therefor including a shaded pole electromagnet having an air gap in which said disk is movable and an energizing winding centrally disposed on the core of the electromagnet, the core of said electromagnet being provided with a flux control opening centrally disposed with respect to said winding for locally increasing the flux density and causing the reluctance of said core to change in a predetermined manner as the current in said winding changes whereby to control the time-current characteristic of the relay over a predetermined range of current values.

1,920,819

ELECTROLYTIC REFINING OF BRASS

Charles A. Rose, Cranford, N. J., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey

No Drawing. Application January 2, 1930. Serial No. 418,158
3 Claims. (Cl. 204—57)

1. An electrolytic process for treating brass which comprises forming said brass into anodes, electrolyzing said anodes in an electrolyte of sulphuric acid whereby copper is deposited on the cathode and the zinc content of the electrolyte increases, maintaining the copper content of the electrolyte substantially constant by circulating said electrolyte over a quantity of copper oxide, continuously withdrawing sufficient electrolyte to maintain the zinc content below a predetermined value, removing the copper in the portion so withdrawn by electrolysis and electrolyzing the copper-free electrolyte with insoluble anodes to deposit zinc therefrom.

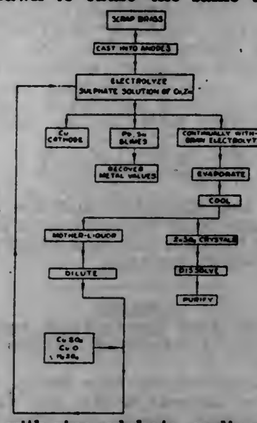
1,920,820

REFINING OF BRASS

Charles A. Rose, Cranford, and Berry Marvel O'Harra, Westfield, N. J., assignors to American Smelting & Refining Company, New York, N. Y., a Corporation of New Jersey

Application May 24, 1930. Serial No. 455,168
2 Claims. (Cl. 204—57)

1. The process of treating brass which comprises forming said brass into anodes, treating said anodes in cells containing an electrolyte of substantially 75 grams per liter copper and substantially 40 grams per liter zinc in sulphate solution, continuing said treatment until the zinc content is increased to approximately 100 grams per liter and the copper is decreased to approximately 15 grams per liter, continuously withdrawing portions of the electrolyte of the above concentration and continuously adding further corresponding quantities of electrolyte of the first mentioned composition, evaporating the portion so withdrawn to cause the same to be super-



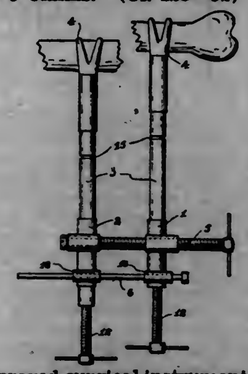
saturated with zinc sulphate, cooling to approximately 20° C. whereby a portion of the zinc sulphate crystallizes, removing the mother liquor, diluting with water to its original volume and adding copper to bring the copper content to approximately 75 grams per liter and utilizing the same as the source of electrolyte for said cells.

1,920,821

DISTRACTION BONE FORCEPS

Jan Jacob Stephanus Wassenaar, Pilgrims Rest, Transvaal, Union of South Africa

Application December 31, 1931, Serial No. 584,215, and in the Union of South Africa September 22, 1931
6 Claims. (Cl. 128—92)



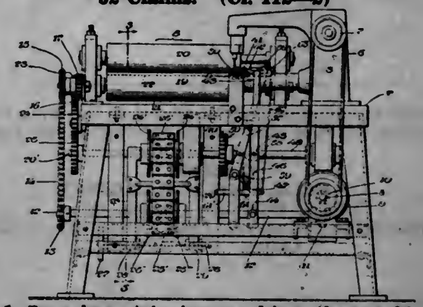
1. An improved surgical instrument of the distraction bone forceps type, comprising two straight gripping members terminating at one end in fixed forked claw-like jaws, separate guide brackets in which said members are slidable and rotatable, a transverse guide rod slidably connected to the brackets and retaining said jaw members in parallel relationship, a hand operated rod threadedly connecting said guide brackets to adjust said parallel relationship, and a hand operated screw rod cooperating with a tapped bore in the other end of each jaw member and having a ball at the inner end and a cylindrical sliding member having a curved jaw member positioned to cooperate with said forked claw-like jaws for bone gripping purposes, and also having a socket in which said ball end of the hand operated rod is engaged.

1,920,822

BAG STRINGING MACHINE

Edward E. West, Richmond, Va.

Application May 27, 1930. Serial No. 456,138
32 Claims. (Cl. 112—2)



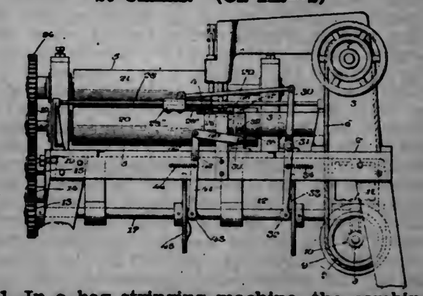
1. In a bag stringing machine, the combination of means for continuously feeding a web of material, means for feeding a string into position to be infolded by the hem of such continuously fed web of material, means for folding the hem over the string, means for stitching the hem, and means operative in the rear of the folding means for cutting the web at intervals after the folding of the hem and during the feeding thereof adjacent to the infolded string to permit access to the string.

1,920,823

BAG STRINGING MACHINE

Edward E. West, Richmond, Va., and Dewey Clymer, Reidsville, N. C., assignors, by direct and mesne assignments, to said Edward E. West

Application July 25, 1930. Serial No. 470,616
20 Claims. (Cl. 112—2)



1. In a bag stringing machine, the combination of means for folding a hem in a continuously fed web of material, a string carrying perforator for conveying the string under the hem and through the hem fold to form loops, means for engaging the loops and drawing out the string, and means for stitching the hem with the string therein.

1,920,824

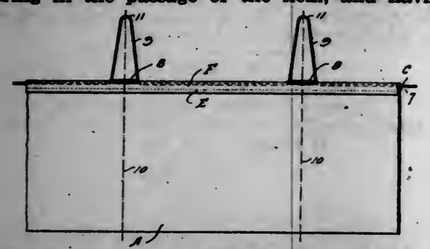
DRAW STRING BAG AND METHOD OF MAKING THE SAME

Edward E. West, Richmond, Va.

Application July 29, 1931. Serial No. 553,742
8 Claims. (Cl. 150—11)

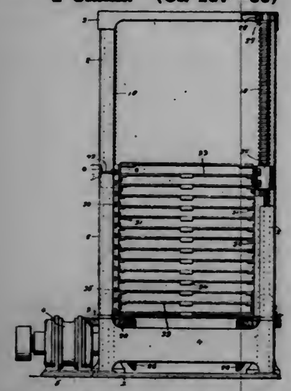
1. A bag comprising a body portion having a seam along a side thereof and a hem at its top, said hem provided in its folded edge with slits

extending to the edge of the seam, and a draw string in the passage of the hem, and having



finger grasping ends extending thru the inner end portions of the slits to the exterior of the hem.

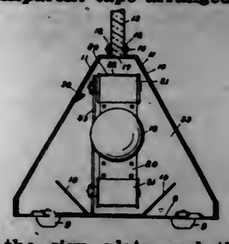
1,920,825
PAGE STORAGE CABINET
Leo K. Williams, Omaha, Nebr.
Application January 7, 1931. Serial No. 507,221
1 Claim. (Cl. 187—36)



In a page storage cabinet for newspapers which includes a frame, an elevator therein, a reversible electric motor for operating the elevator, and an electric circuit for the motor, said elevator having shelves and having spaced openings opposite the shelves, a bar secured in the frame and having openings therethrough alining with the first-named openings, spring influenced catches partly movable into the openings in the bar, a normally closed electric circuit breaker on one side of the frame and electrically connected in the circuit and includes a fixed contact and a spring influenced pivotally supported contact, a revoluble head on the pivoted contact, a key having a stem insertible through any of the registering openings in the elevator and bar and designed to be engaged by the catch that alines with such openings, said key having an outer angle end to engage with the head of the pivoted contact for moving the same away from the fixed contact when the elevator is raised or lowered, a hand operated switch electrically connected in the circuit and to the motor to cause the reverse turning of the motor and to operate the elevator in two vertical directions.

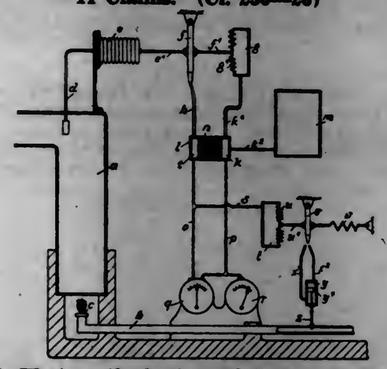
1,920,826
ANIMATED ILLUMINATED SIGN
George A. Wing, Cincinnati, Ohio, assignor to The Cincinnati Advertising Products Company, Cincinnati, Ohio, a Corporation of Ohio
Application September 9, 1930. Serial No. 480,679
9 Claims. (Cl. 40—130)

9. In an animated illuminated sign, the combination with a sign plate of light pervious material bearing display matter, and a supporting means therefor, of a source of light arranged to project rays only upon one edge of the sign plate, a transparent tape arranged to move in-



termediate the sign plate and the source of light, said tape being vari-colored to change the character of the light rays, and means for transmitting motion to the tape.

1,920,827
METHOD OF AND APPARATUS FOR REGULATING OR GOVERNING PHYSICAL CONDITIONS
Guido Wünsch, Steglitz near Berlin, Germany, assignor to Askania-Werke Akt. Ges. Vorm. Centralwerkstatt Dessau und Carl Bamberg-Friedenau, Berlin-Friedenau, Germany
Application September 21, 1927, Serial No. 221,122, and in Germany September 21, 1926
11 Claims. (Cl. 236—26)



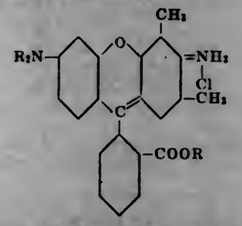
10. That method of regulating or governing temperature in a heated space which comprises delivering fluid under pressure from a source of substantially constant pressure fluid to a governing chamber; varying the quantity of the fluid delivered to the governing chamber in response to changes in temperature in the heated space; simultaneously and gradually modifying the fluid pressure in the governing chamber as the temperature in the heated space changes; and applying the modified pressure to control the supply of heat to said space.

1,920,828
AMINO-XYLENOLS AND PROCESS OF PRODUCING SAME
Max Wyler, Manchester, England, assignor to Imperial Chemical Industries Limited, a Corporation of Great Britain
No Drawing. Application June 24, 1930, Serial No. 463,568, and in Great Britain June 27, 1929
7 Claims. (Cl. 260—130.5)

1. In the process of preparing an amino-xylenol, the steps of nitrating an N-acyl-xylidine compound to introduce a nitro group, reducing the resulting nitro group to an amino group to obtain an acyl-xylylene-diamine, and replacing the amino group so formed with a hydroxyl group.

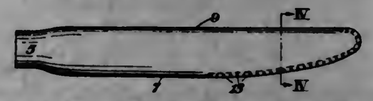
1,920,829
MANUFACTURE OF BASIC DYESTUFFS
Max Wyler, Manchester, England, assignor to Imperial Chemical Industries Limited, a Corporation of Great Britain
No Drawing. Application June 24, 1930, Serial No. 463,569, and in Great Britain June 27, 1929
7 Claims. (Cl. 260—63)

6. A product having the probable formula in the form of its hydrochloride



where R equals alkyl and obtainable by condensing an amino-xylenol compound with a 4-alkyl-amino - 2-hydroxybenzophenone - 2' - carboxylic acid and thereafter effecting esterification of the free carboxyl group of the condensate.

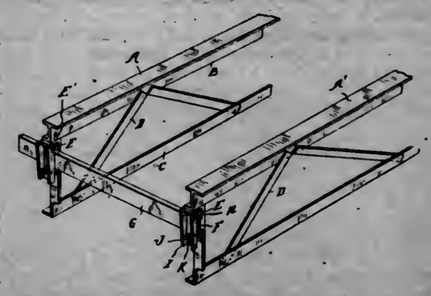
1,920,830
METHOD OF MAKING PROPELLER BLADES
Hamilton Neil Wylie, Whitley, near Coventry, England, assignor to Sir W. G. Armstrong Whitworth Aircraft Limited, Whitley, near Coventry, England
Application January 27, 1932, Serial No. 589,271, and in Great Britain February 4, 1931
1 Claim. (Cl. 29—156.8)



The method of forming a single blade for a propeller, which consists in taking a metal tube of substantially constant outside diameter and with its wall decreasing in thickness towards its tip and pressing the tube to desired aerofoil shape, cutting the shaped tube around the tip and slightly into the leading edge and mainly into the trailing edge for a substantial distance from the tip and removing the metal therefrom to provide a tip and trailing edge formation to the propeller, and uniting the cut free edge portions of the tube.

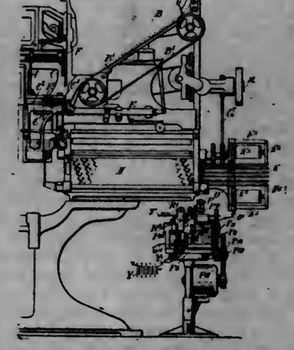
1,920,831
TRANSVERSE BRACING FOR METALLIC FLOOR JOISTS
William F. Zabriskie, Detroit, Mich., assignor to Gabriel Steel Company, Detroit, Mich., a Corporation of Michigan
Application December 10, 1928. Serial No. 324,986
4 Claims. (Cl. 189—36)

1. In a floor construction, the combination with a series of metallic joists, each provided with top and bottom cord members, of vertical struts extending between said top and bottom cord members and provided at intermediate points with laterally projecting lugs, and a channel bar extending transversely to the series of joists adjacent to said struts and with the chan-



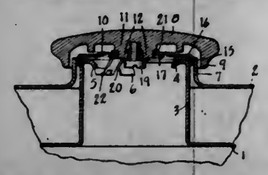
nel portions thereof embracing said lugs and means for clamping said bar to each of said struts to form a rigid connection thereto.

1,920,832
TYPOGRAPHICAL COMPOSING MACHINE
William Ackerman, Towners, and George P. Kingsbury, Hollis, N. Y., assignors to Mergenthaler Linotype Company, a Corporation of New York
Application September 11, 1929
Serial No. 391,752
10 Claims. (Cl. 199—29)



1. In a typographical composing mechanism, the combination of a magazine containing a set of two-character matrices, escapements controlling the release of the matrices therefrom, a series of power-operated reeds for actuating the escapements, a corresponding series of slides controlling the operation of said reeds, a series of locking bars cooperating directly with the slides and movable to active or inactive position singly or in groups to establish different combinations in controlling the operation of the individual reeds, an assembler wherein the released matrices are composed in line, an auxiliary rail section mounted in the assembler and adjustable to different positions to control the level at which the matrices are composed, electrical means for operating the rail, a perforated tape feed mechanism, means responsive to certain symbols in the tape for operating the locking bars, and means responsive to other symbols in the tape for controlling the operation of the assembler rail section.

1,920,833
CLOSURE
Michael B. Andrie, Grand Rapids, Mich., assignor to W. B. Jarvis Company, Grand Rapids, Mich.
Application October 28, 1929. Serial No. 402,884
5 Claims. (Cl. 220—40)



5. In a closure, the combination of a neck having internal keepers, a chambered body member, a spring closure member mounted at its center within said body member and against relative rotative movement thereto, said closure member having a downturned flange at its outer edge engaging said neck, and a latch member provided with lugs coacting with said keepers.

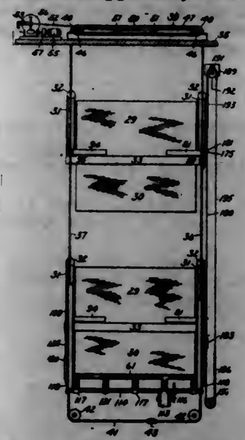
1,920,834
BELT BUCKLE
Raymond W. Ayers, Roseburg, Oreg.
Application March 5, 1932. Serial No. 597,031
1 Claim. (Cl. 24—180)



A buckle for use with a belt, comprising a body portion formed of a length of sheet metal material curved longitudinally with respect to the length of the belt, inturned end portions forming a part of the body portion, the inturned end portions extending an appreciable distance over the rear surface of the body portion, and spaced from the body portion, providing a space through which a belt is passed, the front and rear edges of the body portion being curved outwardly providing flat surfaces contacting with the belt, the inwardly extended portions of the body portion having curved portions providing bearings, a loop member, pintles extending laterally from the loop member and fitted in the bearings, a stud carried by the loop member and adapted to move into an opening of the belt passed through the buckle, said stud contacting with one of the outwardly curved edges of the body portion, and said loop member being outwardly curved, and to which one end of the belt is secured.

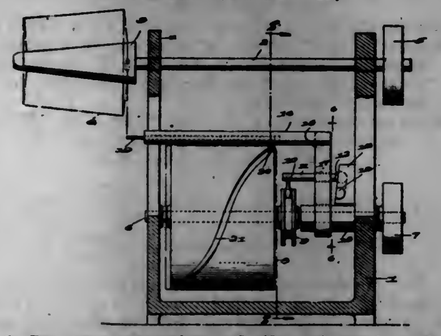
1,920,835
DOOR OPERATING MECHANISM
James E. Bancroft, Detroit, Mich., assignor, by mesne assignments, to The Peelle Company, New York, N. Y., a Corporation of New York
Application November 23, 1929
Serial No. 409,284
14 Claims. (Cl. 187—52)

1. An operating mechanism for the slidable doors of an elevator hatchway having an elevator car therein comprising a power transmitting means extending vertically of the hatchway, a power actuated crank, means including a connecting rod pivoted to the crank and arranged to move the power transmitting means vertically, means affected by the position of the elevator car and arranged to connect the power transmitting means to any one of said doors when the elevator car is stopped adjacent thereto, and



means to stop the movement of said crank as it reaches either of its dead center positions.

1,920,836
CONE WINDING APPARATUS
Joseph H. Barnes, New Castle, Del., assignor of one-third to Delaware Rayon Company, New Castle, Del., and one-third to Leon H. Ryan, New Castle, Del.
Application August 4, 1931. Serial No. 555,107
14 Claims. (Cl. 242—43)

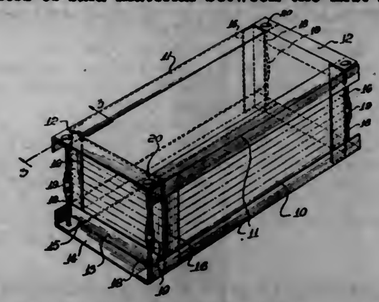


1. In an apparatus of the character described, the combination of a winding spindle, a thread guide reciprocable longitudinal of the winding spindle, means including cam means for reciprocating the thread guide, and means responsive to movement of the thread guide radially of the winding spindle for adjusting the position of the cam means.

1,920,837
CRATE FOR SHEET MATERIALS
Charles R. Birdsey, Hinsdale, Ill., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois
Application June 22, 1929. Serial No. 372,825
9 Claims. (Cl. 206—60)

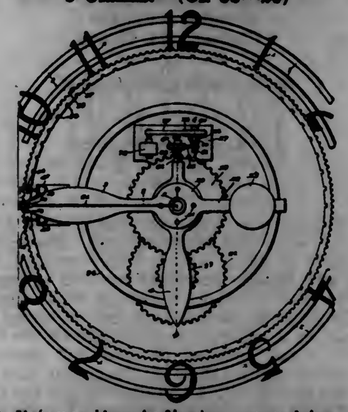
1. In a shipping crate, in combination with a stack of sheet material in face to face, abutting position, of angle strips extending across the corners of opposite faces of said stack of material, bolt means for compressing said angle strips together in pairs, and secondary unconnected angle strips extending vertically along the stack

corners of said material between the first men-



tioned angle strips so as to limit the compression of said first angle strips.

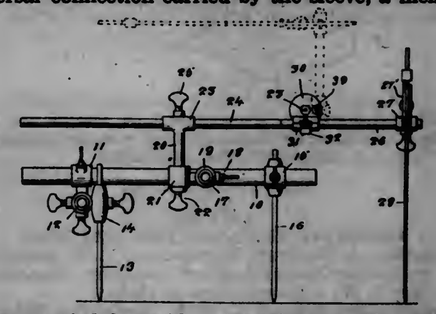
1,920,838
TIME INDICATOR
Leonard C. Butts, Spokane, Wash.
Application October 26, 1931. Serial No. 571,126
5 Claims. (Cl. 58—26)



1. A distance time indicator comprising, a clock dial, a hollow rotatable arbor, minute and hour hands rotatable about the axis of said arbor, a dial train controlling relative movement of said hands, a driving electric motor carried by said arbor, a releasing electric motor carried by said minute hand, a locking ring near said dial having rack teeth and locking notches, a propulsive gear meshing with said rack teeth and operated by said driving motor for advancing said minute hand intermittently, a locking block normally urged to engage said notches to lock said minute hand between intermittent advancement of the latter, a source of current, a master clock having a circuit closer, and an electric circuit including said master clock and source of current and said driving and releasing motors for causing alternate operation of the latter to advance and release said minute hand.

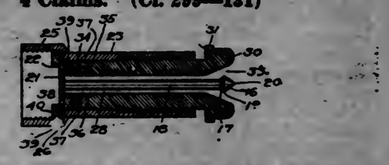
1,920,839
POINTING DEVICE FOR STONE CARVERS
Charles Cattaneo, South Norwalk, Conn.
Application May 4, 1929. Serial No. 360,552
1 Claim. (Cl. 33—174)

A pointing device for stone carvers, comprising two bars arranged in substantially T-shape and adjustably connected to each other whereby one bar may be adjusted endwise of the other bar, a pair of vertical legs adjustably connected to one of the bars adjacent the ends thereof, a third vertical leg adjustably secured to the other bar adjacent one of the ends thereof, said legs forming a three point support for the bars and each leg being adjustable vertically and horizontally relative to its respective bar, a stud adjustable endwise of one of the bars and arranged horizontally and at right angles thereto, a sleeve adjustably mounted on the first lug and arranged horizontally and at right angles thereto, a universal connection carried by the sleeve, a mem-



ber carried by said universal connection and normally disposed vertically and terminating above said bars, a rod adjustably secured to said member and capable of endwise adjustment above the bars, a second rod adjustably and pivotally secured to one end portion of the first rod, and capable of adjustment endwise of the first rod and angularly thereto, a mounting adjustable on the second rod and endwise of the latter, and a pointer adjustably secured to the mounting.

1,920,840
HOSE NOZZLE
Michel Chouinard, Montreal, and Joseph Philippe Paradis, Longueuil, Quebec, Canada, said Paradis assignor to said Chouinard
Application November 23, 1931. Serial No. 576,866
4 Claims. (Cl. 299—131)

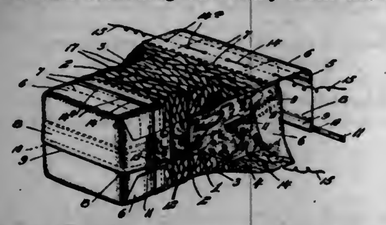


1. A hose nozzle comprising a barrel casing containing a central stem having a spear head carrying at its lower end a closure for the bottom of the casing with ports therethrough, a flange disc valve mounted on a rubber compressible gasket and carrying on the outer side a compressible gasket guarded by said flange, a spray member having a flaring outlet in the head cooperating with said spear head in forming a spray, and having an annular unobstructed outlet passage through the body joining said flaring mouth and forming a water passage beginning at the ports in said closure, means for turning said body in said valve casing and engaging said disc valve and a locking member securing said closure to the bottom of said valve casing.

1,920,841
PAPER WRAPPER FOR EXPANSIBLE MATERIALS
John W. Clark, New York, N. Y.
Application December 19, 1928. Serial No. 326,988
6 Claims. (Cl. 100—14)

6. In a wrapper structure for bales, a pair of wrapper sections adapted to be positioned upon

opposite sides of a bale and each provided with end portions, and means carried by said end portions and extending outwardly from the side



edges thereof for attachment to a bale tie to hold the end portions of said wrapper section in close proximity to the bale ends.

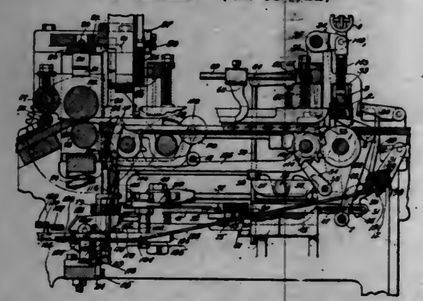
1,920,842

GRADING AND EVENING MACHINE

Leander A. Cogswell, Manchester, N. H., assignor to Lacene Manufacturing Company, Manchester, N. H., a Corporation of Maine

Application October 6, 1922. Serial No. 592,915

78 Claims. (Cl. 69—11)



1. A machine of the kind described, comprising ingoing mechanism for receiving and feeding blanks, including grade detecting mechanism for detecting the grade of successive blanks of stock according to thickness, and feeding mechanism and timing means for controlling the entrance of blanks to the detecting mechanism, and a main grader of the kind so described herein controlled in response to said grade detecting mechanism, combined with means to operate said timing means to admit a blank to the detecting mechanism before a preceding blank has entered and been operated upon by said main grader.

1,920,843

CABLE REEL

Frank J. Counihan, Indiana, Pa.

Application May 5, 1931. Serial No. 535,241

1 Claim. (Cl. 173—367)

A reel for covered conductor wires employed in blasting, comprising a ring having a peripheral groove on which the covered wires are wound and through which ring one arm of an operator is designed to be inserted to serve as a journal for the ring, the outer ends of the wires being uncovered and designed to be connected to an explosive cap which is inserted in a blast, the reel having one of its sides provided with an opening through which is passed the second end of the covered wires, and the covering on the said ends of said wires being removed, a clip for frictionally engaging and electrically connecting the said uncovered ends of the wires, said clip comprising a metal base having spaced metallic arms exerting a pressure toward each other and one of said arms having its outer end arched



over but spaced away from the second arm of the clip.

1,920,844

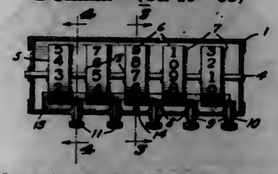
OIL CHANGING INDICATOR

Robert Curry, Louisville, Ky.

Application September 19, 1932

Serial No. 633,893

1 Claim. (Cl. 40—68)



An oil changing indicator comprising a casing having a front wall provided with sight openings, a plurality of disks mounted for rotation in said casing and having numbers thereon arranged to show through the sight openings, means for individually rotating said disks, a bar arranged longitudinally in the casing and slidable on the bottom thereof, a rod secured to said bar midway its ends and extending through the casing and means threaded on the outer end of said rod for moving the bar into and out of engagement with respect to the disks and being engageable with the casing for securing the bar in binding contact with the disks to prevent casual movement thereof.

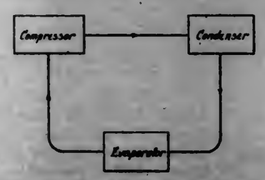
1,920,845

REFRIGERATING SYSTEM

Christian Dantsizen, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York

Application October 26, 1932. Serial No. 639,606

12 Claims. (Cl. 62—178)



8. A method of reducing the production of non-condensible gaseous decomposition products in a refrigerating system which comprises circulating a few per cent by weight of a glyceride of a fatty acid through said system in contact with the refrigerant therein.

1,920,846

PREPARATION OF ALKYL HALIDES

Herbert W. Daudt, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware

No Drawing. Application October 2, 1930

Serial No. 486,861

24 Claims. (Cl. 260—166)

1. The method of producing ethyl chloride which comprises passing ethyl ether and hydrochloric acid, said acid being present in an amount which is in excess of that required to molecularly combine with the ether used, over aluminum oxide heated to about 360° C.

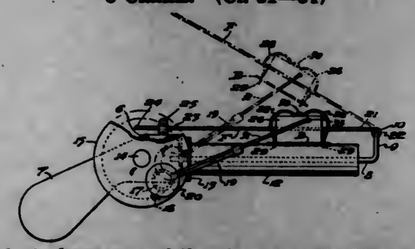
1,920,847

SHARPENING DEVICE FOR SAFETY RAZOR BLADES

William R. Daughtry, Birmingham, Ala.

Application October 2, 1929. Serial No. 396,873

8 Claims. (Cl. 51—84)



1. A sharpener of the class described having a sharpening roller, an inherently resilient frame substantially parallel to the axis of the roller, a blade carrier reciprocable along said frame and yieldingly urged toward the roller by the resiliency of said frame, means mounting said roller and frame, and driving mechanism mounted on said means and operatively connected to the carrier and to the roller for simultaneously reciprocating the carrier and rotating the roller.

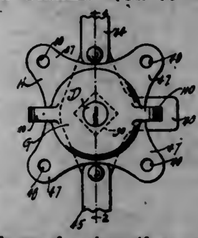
1,920,848

LOCK MECHANISM

William S. Diehl, Shillington, Pa., assignor to Reading Hardware Corporation, Reading, Pa., a Corporation

Application December 19, 1931. Serial No. 582,133

12 Claims. (Cl. 70—91)



2. In a lock mechanism the combination of a support upon which the lock is to be mounted and having a lock receiving opening therein, a sleeve-like keeper member affixed upon the inner side of the support and having a passageway therethrough aligning with the opening of said support, said sleeve-like keeper having at the inner side of said support a transverse socket opening into said passageway of the sleeve, a cylinder casing rotatably bearing in said passageway of the sleeve-like member, a plug rotatable in the cylinder casing, a plunger having a cam connection with the plug and actuable upon rotation of the plug into and out of projecting relation with respect to the socket of the sleeve-like member, a removable handle cap on the outer end of the cylinder member at the outer side of the support and having a reduced annular portion bearing in the sleeve-like keeper member and overlapping the jointed connection surrounding the opening of said support, said cap having a front wall with an opening therein in which the outer end of the plug is exposed, said plug having a key slot therein, and tumbler mechanism associated with the plug and the cylinder casing and having springs actuable against the cap and maintained in position thereby.

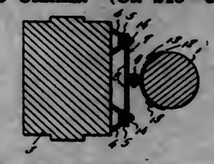
1,920,849

TRANSFORMER SUPPORTING MEANS

Lorenzo J. Driggs, Altoona, Pa.

Application October 21, 1931. Serial No. 570,193

3 Claims. (Cl. 248—30)



3. Transformer supporting means comprising hangers connected with the transformer and having their upper ends engaging a part of a support, a bracket including a pair of complemental half sections, said sections comprising opposed, connected intermediate portions, arms extending from one end of the intermediate portions at an angle thereto, means for adjustably and detachably connecting the arms to the hangers, and arms extending from the other ends of the intermediate portions for abutting engagement with the support.

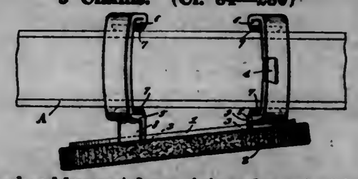
1,920,850

SHOULDER REST FOR STRINGED MUSICAL INSTRUMENTS

Edward C. Ebert, South Brownsville, Pa.

Application July 20, 1932. Serial No. 623,622

3 Claims. (Cl. 84—280)



1. A shoulder rest for a stringed musical instrument comprising a base plate, a pad of a soft resilient material secured to the base plate, longitudinally spaced spring arms secured to the base plate, confronting shoulders formed with each spring arm, cushion knobs secured to the shoulders, and one of said arms being longer than the other to dispose the base plate and the pad at an inclination.

1,920,851

PROCESS FOR PRODUCING FORMATES OF ALKALINE EARTH METALS

Egon Elöd, Karlsruhe, and Max Enderli, Oestrich, Germany, assignors to the Firm of Rudolph Koepp & Co., Oestrich, Germany, a Society of Germany

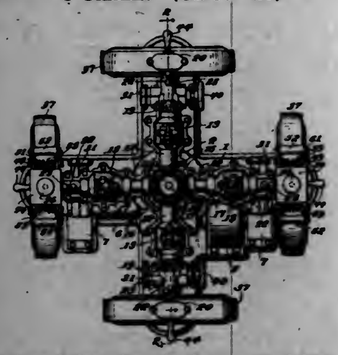
No Drawing. Application November 25, 1930, Serial No. 498,200, and in Germany March 14, 1925

15 Claims. (Cl. 260—114)

1. A method of producing formates of the alkaline earth metals consisting in causing a gas

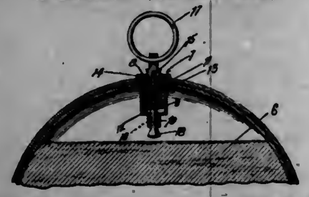
which comprises carbon monoxide to act on 100 parts by weight of alkaline earth metal hydroxide at formate producing temperatures and pressures in presence of not more than 30 parts by weight of a catalyst consisting of at least one alkali metal formate.

1,920,852
TIRE RETREADING MACHINE
Nicholas Feinen, Buffalo, N. Y.
Application October 14, 1931. Serial No. 568,818
3 Claims. (Cl. 90—20)



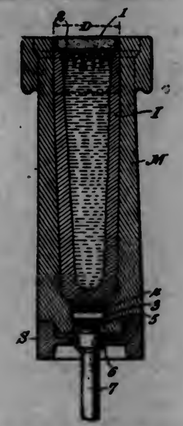
1. A tread forming device comprising a base, vertical supporting means on the base, a horizontal shaft and clutch housing carried by said supporting means, a shaft journaled in the housing, power means on the base, means connecting the power means to the shaft, an adjustable shaft carried by the housing, a clutch in the housing and connecting the shafts, tire supporting means adjustably mounted on the supporting means and movable towards and from the housing, cutters actuated by said adjustable shaft to act on a tire carried by said tire supporting means, and means imparting movement to the tire supporting means.

1,920,853
HEAT FLASK
Ralph S. Ferguson, Baltimore, Md.
Application May 18, 1931. Serial No. 538,387
2 Claims. (Cl. 126—263)



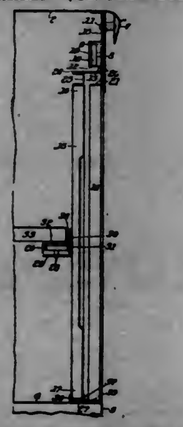
1. Heat flask comprising a casing, means in said casing having the property of changing its state with evolution of heat when contacted by air, said casing being provided with valve structure for controlling the admission of air to said casing, said valve structure comprising a shell having an external valve seat, and an annular edge at its inner end, a stem reciprocably mounted in said shell and extending therethrough, having a valve engaging said seat and having a flared inner end extending beyond said shell adapted to engage the inner end of said shell in valve relation when said external valve is opened, said stem and shell providing an air passage communicating between the exterior of the casing and the interior of said casing in intermediate positions of said valve stem, a spring mounted in said shell normally holding said external valve closed, the means for operating said valve.

1,920,854
HEAT INSULATING MEANS FOR USE IN PRODUCING METALLIC CASTINGS
Emil Gathmann, Baltimore, Md.
Original application July 6, 1932, Serial No. 621,100. Divided and this application September 26, 1932. Serial No. 634,950
5 Claims. (Cl. 22—1)



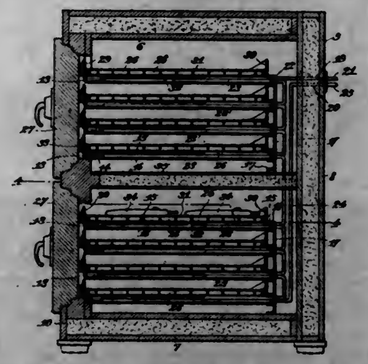
1. Portable means for covering the top of molten ingot metal in a mold comprising a quantity of heat-insulating material of sufficient volume to cover the top of the ingot to a depth of at least one-fourth of the minimum cross section of the ingot at its top, and a jacket enveloping said material.

1,920,855
SLIDING DOOR CABINET
John Edward Gloekler, Pittsburgh, Pa.
Application May 20, 1932. Serial No. 612,449
10 Claims. (Cl. 312—189)



7. In combination with a cabinet having an upper wall above a front opening, an inner trackway supported on the upper wall, a pair of overlapping doors each having supporting rollers engaging the trackway, a supporting bracket for each roller secured to the top of each door, the roller bracket of one door extending upwardly across the other door to prevent interference.

1,920,856
COOLING DEVICE
Arturo González and José M. González, Habana, Cuba
Application July 11, 1932. Serial No. 621,990
6 Claims. (Cl. 62—99)



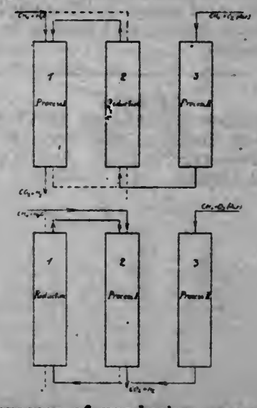
6. In a device of the class described, a chest having an opening, a door for closing the opening, two horizontal open members disposed in the chest, one above the other behind the opening, a pipe having a coil disposed on one of the members and a drawer disposed on the other member for removal through the opening, the drawer being open at its sides and an open bottom across which are disposed supporting members spaced apart.

1,920,857
DENTAL IMPRESSION MATERIAL
Laurence E. Harrison, Long Beach, Calif., assignor, by mesne assignments, to Dental Plastics Company, Los Angeles, Calif., a Corporation of California
No Drawing. Application June 23, 1930
Serial No. 463,345
6 Claims. (Cl. 18—47)

1. A dental impression material consisting principally of rubber and a solid material of a resinous nature similar to balata and adapted to soften upon warming and to solidify upon chilling, said material also comprising a colloid-forming material and a finely divided solid lubricant material, all of said ingredients being intimately mixed together by milling, and said material containing only a very small proportion of water and having a softening temperature between 35 and 55° C.

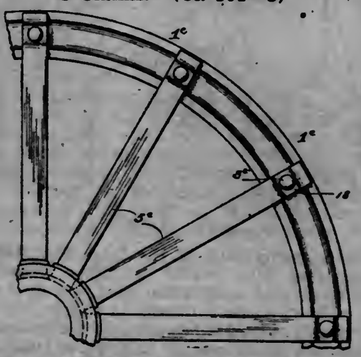
1,920,858
PROCESS OF CONVERTING GASES RICH IN METHANE INTO MORE VALUABLE PRODUCTS
Hans Harter, Wurzburg, Germany
Application February 14, 1929, Serial No. 339,962, and in Germany February 16, 1928
11 Claims. (Cl. 23—212)

1. The process of producing gases containing hydrogen by converting gases rich in methane, which comprises mixing with steam a portion of the gas to be treated, passing the mixture over a heated ferriferous catalyst in a first apparatus to produce hydrogen and carbon dioxide, mixing another portion of the gas to be treated with a gas rich in oxygen and heating the mixture in a second apparatus to produce carbon monoxide and hydrogen, and utilizing the products of the process carried out in the second apparatus for reducing and heating the catalytic substances in the first apparatus.



7. The process of producing gases containing hydrogen by converting gases rich in methane, which comprises mixing with steam a portion of the gas to be treated, passing the mixture over a heated catalyst in a first apparatus, said catalyst mainly consisting of metallic iron and a siliceous substance in which difficultly reducible metallic oxides and oxides easily reducible by hydrogen are distributed, to produce hydrogen and carbon dioxide, mixing another portion of the gas to be treated with a gas rich in oxygen and heating the mixture in a second apparatus to produce carbon monoxide and hydrogen, and utilizing the products of the process carried out in the second apparatus for reducing and heating the catalytic substances in the first apparatus.

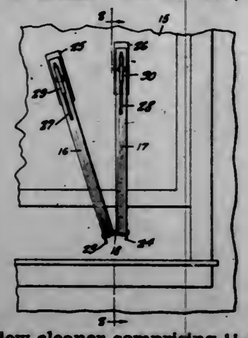
1,920,859
METAL WHEEL STRUCTURE
Joseph L. Hecht, Davenport, Iowa, assignor to French & Hecht Incorporated, a Corporation of Iowa
Application September 9, 1930. Serial No. 480,707
3 Claims. (Cl. 301—5)



1. In a metal wheel, the combination of an annular rim member presented edgewise to the ground and provided with a circumferentially extending strengthening formation, spokes connected to the rim member and provided at their outer ends each with a circumferentially extending formation to interlock with said strengthen-

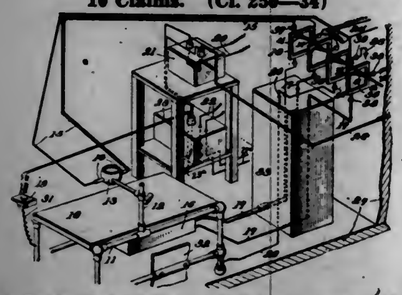
ing formation on the rim, the interlocking formations being so constructed and arranged that force exerted on the rim is transmitted directly to the spokes through said interlocking formations, said interlocking formations also preventing relative radial movement between the rim and the spokes, and means holding the rim member and spokes together and serving to hold said parts interlocked.

1,920,860
WINDOW CLEANING DEVICE
Victor R. Hedden, New York, N. Y.
Application January 29, 1932. Serial No. 589,700
2 Claims. (Cl. 15—220)



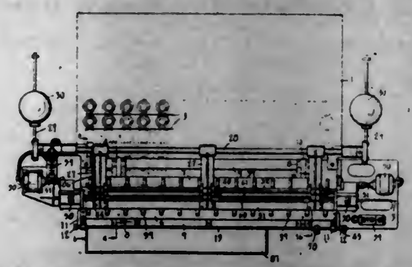
2. A window cleaner comprising U-bars, a pair of spaced pads carried by each of said bars, one on each leg of the same, the corresponding pads of each pair being adapted respectively to contact with the inside and outside of a window pane, and operative connections between the U-bars to insure coordinate movement of the same in the window cleaning operation.

1,920,861
PROTECTIVE SYSTEM AND RADIANT ENERGY APPARATUS
William F. Hemler, Washington, D. C.
Application September 10, 1930
Serial No. 481,051
10 Claims. (Cl. 250—34)



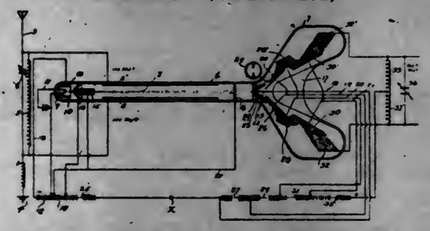
1. In an apparatus of the type described, the combination with metal portions therein, of means to ground said metal portions, and a plurality of X-ray tubes, means to supply high tension current to said tubes including exposed electric conductors to one of said tubes, unexposed conductors to the other of said tubes, said conductors being located in proximity to said metal portions, and means to connect said metal portions to earth when said unexposed conductors are electrified, and to disconnect said metal portions from earth when said exposed conductors are electrified.

1,920,862
SPRING ASSEMBLING MACHINE
Lawrence H. Heuer, Detroit, Mich., assignor to L. A. Young Spring and Wire Corporation, Detroit, Mich.
Application January 2, 1932. Serial No. 584,330
40 Claims. (Cl. 140—3)



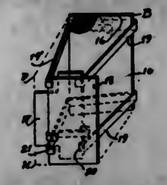
1. In a machine of the class described, the combination with a work table, of bottom jaw plates mounted thereon, one of said jaw plates being adjustable to and from the other, chucking jaws mounted on said jaw plates in opposed relation and adapted to support pairs of coiled springs having offsets in their end coils with offsets of their bottom coils in aligned relation, oscillating head members having upper jaw plates mounted thereon, one of said upper jaw plates being adjustable to and from the other, spring holding jaws mounted on said upper jaw plates and having downwardly facing grooves adapted to receive the upper end coils of springs mounted in said chucking jaws and support the pairs of springs with offsets of their upper end coils in aligned relation, said upper jaws having outwardly projecting fingers engaging the upper end coils of the springs opposite the point of their engagement in said upper jaw grooves, tie member guides comprising coacting members mounted on said jaw plates in opposed coacting relation and for longitudinal adjustment thereon relative to the jaws, said guide members having opposed longitudinal channels provided with flaring mouths and terminating in complemental spiral grooves at their ends adjacent the jaws, and feed means for rotating and advancing helical tie members through said guides and into engagement with the aligned offsets of the top and bottom end coils of the chucked springs.

1,920,863
AMPLIFICATION OF RADIANT ENERGY
Matthew S. Hopkins, Jr., Washington, D. C.
Application October 7, 1932. Serial No. 636,732
11 Claims. (Cl. 179—171)



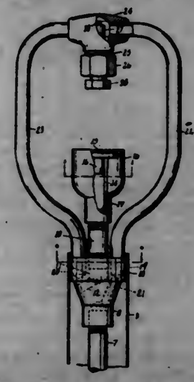
1. The combination in an electronic valve, of an electron beam and a pair of control electrodes so located that a change in potential difference between said electrodes will sway the beam means to produce from the beam an intermittent stream of electrons and one or more other electrodes receiving said intermittent stream of electrons and amplifying this stream in the form of emitted secondary electrons.

1,920,864
FRAME FOR CIGARETTE PACKAGES
Anton Jacobsen, Brooklyn, N. Y.
Application March 9, 1932. Serial No. 597,668
3 Claims. (Cl. 206—41)
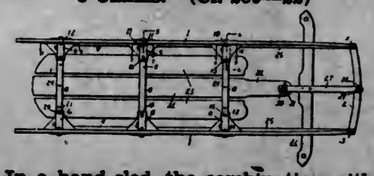


1. A shape-keeping and cigarette-delivery frame for cigarette packages, comprising in combination, a broad stiffening wall at the one side of the package and extending parallel to the cigarettes, another stiffening wall at the opposite side of the package and consisting of two narrower plates partly overlapping each other, rubber bands connecting the said two narrower plates in such a manner as to create a tendency to change the combined width of the latter, and rubber bands connecting the two walls in a direction crosswise to the length of the cigarettes, so as to pull the two walls nearer together, at the same time fencing the cigarettes laterally.

1,920,865
ATOMIZER OR SPRAYER
Charles H. Jarvis, Battle Creek, Mich., assignor to United Steel & Wire Company, Battle Creek, Mich.
Application October 3, 1932. Serial No. 635,891
2 Claims. (Cl. 299—58)



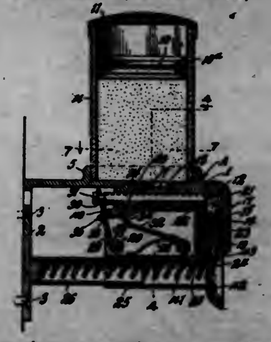
1. In an atomizer, the combination of a supply pipe, a coupling head on the upper end of said supply pipe having a central threaded socket and a drain passage leading from said socket to the side of said head, said head having a pair of arm sockets, one of said arm sockets being connected to said supply pipe, a casing surrounding said supply pipe and head, a support mounted in said threaded socket and supplying a drain passage, an atomizer disk mounted in said support, a combined drain cup and baffle threaded upon said support for adjustment thereon relative to said atomizing disk, bowed arms mounted in said arm sockets, one of said arms constituting a water delivery pipe, a coupling connecting said arms, and a nozzle mounted on said coupling to discharge a jet of water upon said disk.

1,920,866
SLED
William E. Kidder, Kalamazoo, Mich., assignor to Kalamazoo Sled Company, Kalamazoo, Mich.
Application June 23, 1930. Serial No. 462,999
5 Claims. (Cl. 280—22)



4. In a hand sled, the combination with runners of T-cross section, of a top, knees having downwardly diverging legs of channel cross section provided with outwardly projecting flanges on their edges extending to the bottoms thereof, the lower ends of the legs being forked to receive the upwardly projecting central web of the runners and provide attaching ears, and rivets arranged through said attaching ears and the upwardly projecting webs of the runners.

1,920,867
DISPENSING APPARATUS
Noel R. Kirk, Tientsin, China
Application June 3, 1932. Serial No. 615,190
12 Claims. (Cl. 221—102)

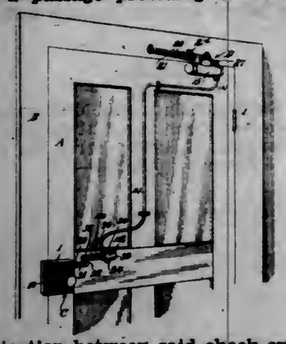


1. A dispensing apparatus comprising a cylinder provided with a discharge opening; a piston reciprocably mounted in said cylinder; piston operating means; a spring for urging said operating means in one direction; and connections between said piston and said operating means adapted to move said piston to perform automatically both a discharge stroke and part of a succeeding return stroke during movement of said operating means under the urge of said spring.

1,920,868
LATCH OPERATING MEANS
Noel R. Kirk, Tientsin, China
Application June 16, 1932. Serial No. 617,671
3 Claims. (Cl. 16—49)

2. The combination with a door, of a door latch bolt; a door closer adapted constantly to urge said door to closed position; a fluid pressure controlled door check connected to said door, said check including a check cylinder and a check piston; a latch cylinder; a latch piston operable therein

and being connected to said latch bolt; and means forming a passage providing constantly closed



communication between said check cylinder and said latch cylinder.

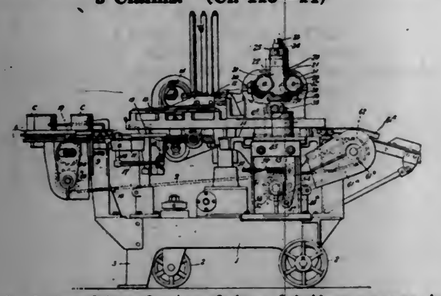
1,920,869

MACHINE FOR APPLYING FRICTION COVERS TO CONTAINERS

Alfred L. Kronquest, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York

Application December 16, 1929. Serial No. 414,473

3 Claims. (Cl. 113—14)



1. A machine for applying friction covers to containers comprising conveying means for feeding the containers in a straight line, means for loosely applying a friction plug closure to the container while it is traveling, a closing head for seating the cover in the container while it is traveling including a supporting stem, a head carried thereby, a sleeve in which said stem is mounted for vertical adjustment, said sleeve having laterally projecting portions, two parallel shafts having their axes in a horizontal plane and at right angles to the path of travel of the container, cranks carried by the shaft and engaging the laterally projecting portions of the sleeve for supporting and moving the sleeve bodily while maintained in a vertical position so that said head is caused to engage and travel with the container while seating the cover thereon, and means traveling with the container for supporting the same while the cover is being seated.

1,920,870

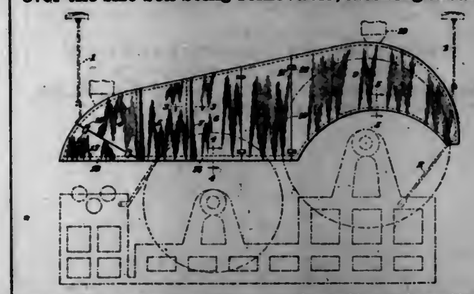
SLASHER HOOD

Claude Lancaster, Spartanburg, S. C.

Application July 22, 1931. Serial No. 552,532

2 Claims. (Cl. 28—28)

1. A hood adapted to be supported over the cylinders and size box of a slasher, made up of panels, certain of which have their edges formed with interengaging tongues and grooves, one of the side panels being removable, latching means for holding the said removable panel on the adjacent panels, the end section of the hood arranged over the size box being removable, latching means



for holding such section on the adjacent section, a top including a frame which is secured to all but the removable side panels, and pipes for suction fans arranged on the top and communicating with the hood adjacent to the ends thereof.

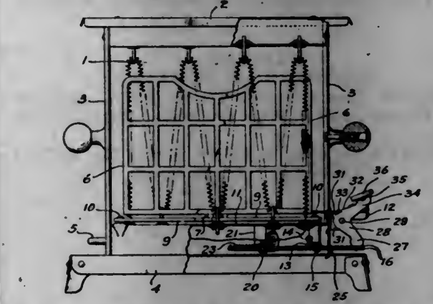
1,920,871

HEATING DEVICE

Louis V. Lucia, Hartford, Conn., assignor, by mesne assignments, to The Beardsley & Wolcott Mfg. Co., a Corporation of Connecticut

Application December 2, 1927. Serial No. 237,310

56 Claims. (Cl. 53—5)



1. In combination, a heater including a frame and a movable rack thereon, and means including a depressible actuating member engageable by an operator and operative by said member to reverse said rack relative to said heater.

56. In a toaster, co-operating heater and toast rack means, one stationary and the other comprising a plurality of pivoted elements on opposite sides of said stationary means, pivoted members, vertically disposed pivot means for said members, means between such members and such elements for swinging said elements upon operation of said members, an actuating member movable in substantially horizontal planes, means actuated thereby for moving said pivoted members about said pivot means, and hand operated means for actuating said actuating member.

1,920,872

REGENERATIVE FURNACE

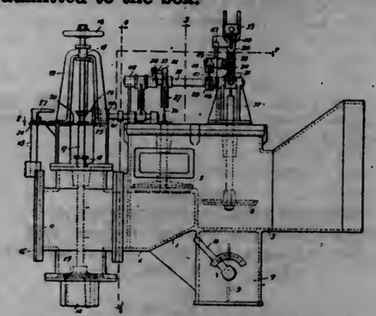
Matthew Hamilton McEwan, London, England

Application April 20, 1929, Serial No. 356,773, and in Great Britain April 28, 1928

11 Claims. (Cl. 137—144)

1. Apparatus for controlling the supply of gaseous fluid to a regenerator of a regenerative furnace, such as a coke oven or the like, adapted to

be fired by rich gas or by lean gas, comprising a box having communications with a source of air and a source of lean gas respectively, valves controlling said communications, a device cooperating with said valves and adapted to maintain either of said valves locked in closed position as long as the other of said valves is open, and an inlet valve controlling communication between the box and the regenerator and governing the admission to the regenerator of the lean gas or air admitted to the box.



5. Apparatus for controlling the supply of gaseous fluid to a regenerator of a regenerative furnace, such as a coke oven or the like, adapted to be fired by rich gas or by lean gas, comprising a box having valve-controlled communications with a source of air and a source of lean gas respectively, an inlet valve controlling communications between the box and the regenerator and governing the admission to the regenerator of lean gas or air supplied to the box, a waste gas valve controlling communication between the regenerator and a waste gas flue, and a reversal mechanism for actuating the inlet and waste gas valves, which mechanism comprises a member adapted to rotate between two extreme positions and means whereby the earlier stage of the rotation from either position to the other determines the closing of one of said valves and a later stage of the said rotation determines the opening of the other of said valves.

1,920,873

EXCAVATING APPARATUS

Loudon E. MacFadyen, Easton, Pa., assignor to Taylor Wharton Iron & Steel Company, High Bridge, N. J., a Corporation of New Jersey

Application February 11, 1932. Serial No. 592,356

13 Claims. (Cl. 37—141)



8. A front or lip having spaced fore and aft ranging concavo-convex portions below the plane of the top and formed by depressed sockets to receive tooth elements which fill the sockets and make the top substantially flush, and by bottom lugs alined with the sockets and effective as an anchorage for other elements of the same tooth.

1,920,874

SPRAYING NOZZLE

Nathaniel W. Meloon, Buffalo, N. Y.

Application May 12, 1931. Serial No. 536,812

6 Claims. (Cl. 299—114)

1. A spraying nozzle, comprising a casing having a tapped inlet opening at one end adapted for connection of a liquid supplying element thereto, an exit opening at its other end, and a pressure chamber between its ends, a swirler element open at one end and closed at its other end and comprising a cylindrical wall and a bottom wall, said swirler element having its closed end projecting into said pressure chamber



and the cylindrical wall thereof being slit and having the metal thereof at one side of said slit bulged inwardly to provide a liquid-directing wall entering the interior of the swirler element and forming an inlet opening wholly within said cylindrical wall.

1,920,875

JEWELRY

Herbert L. Miskend, New York, N. Y., assignor to Lande & Miskend, Inc., New York, N. Y., a Corporation of New York

Application January 23, 1933. Serial No. 652,992

10 Claims. (Cl. 63—16)



1. An article of jewelry comprising two complementary loop shaped members having their sides parallel to each other, one of said loop shaped members being provided with prongs, the other of said members being provided with corresponding recesses, and an ornamental mounting joining said two loop shaped members and means to keep said loop members in contact with each other.

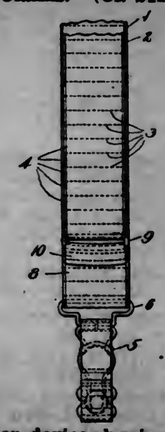
1,920,876

ADJUSTABLE GARMENT SUPPORTER

Harold Q. Moore, Westerly, R. I., assignor to George C. Moore Company, Westerly, R. I., a Corporation of Rhode Island

Application October 31, 1930. Serial No. 492,536

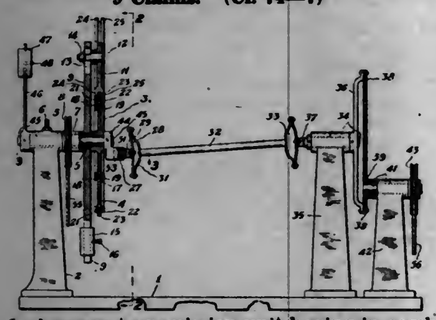
7 Claims. (Cl. 241—1)



1. A supporter device, having in combination an elongated two-ply elastic fabric constructed with a series of pockets throughout its length along at least one of its edges, means attached to one end of the fabric adapted to cooperate with the pockets to hold the end in fixed relation

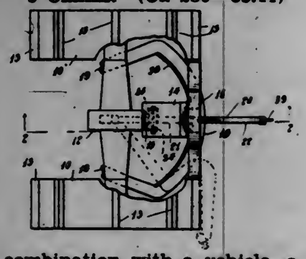
therewith, and garment-supporting means carried by the fabric between such end and its cooperating pocket and freely slidable over the intervening pockets.

1,920,877
POWER TRANSMISSION UNIT
George Bert 'Odatte, Cleveland, Ohio, assignor of one-fifth to Robert L. Beck and one-fifth to James G. Hill, Cleveland, Ohio
Application March 7, 1933. Serial No. 659,969
9 Claims. (Cl. 74—7)



1. A power transmission unit having in combination a fixed gear having external gear teeth, an internal gear engaged therewith and moving eccentrically about said fixed gear, a pivoted member mounted concentrically with said fixed gear member and carrying a roller adapted to engage the circumference of said internal gear, and means connected to said internal gear for supporting the same and for transmitting power.

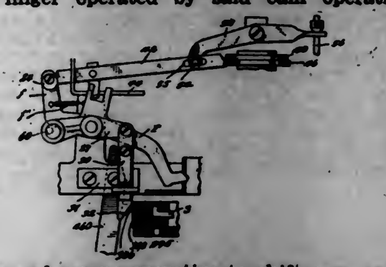
1,920,878
HITCHING DEVICE FOR TRACTORS
Clifford A. Odegard, Gonvick, Minn.
Application July 30, 1932. Serial No. 626,699
5 Claims. (Cl. 280—33.44)



1. In combination with a vehicle, a hitching device pivotally connected thereto on a substantially vertical axis between wheels thereof, said hitching device having a crook, whereby a portion of a wheel may extend into the same during turning, and means operable to move the crook from a vertical position to a substantially horizontal position wherein it receives the wheel.

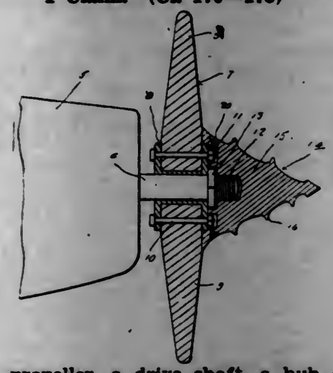
1,920,879
VARIABLE SPLICING MEANS FOR KNITTING MACHINES
Frank R. Page, Brooklyn, N. Y., assignor to Scott & Williams, Incorporated, New York, N. Y., a Corporation of Massachusetts
Application December 24, 1931. Serial No. 583,102
17 Claims. (Cl. 66—133)

13. In a knitting machine, a sinker operating cam, a dial spindle, cams operated by said spindle, means for operating said sinker operating cam from said spindle operated cams, a splicing yarn finger operated by said cam operating



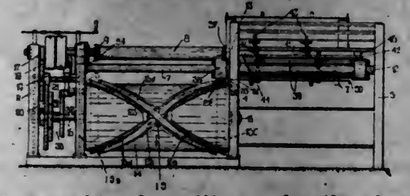
means and means operative to shift cam operating means from one to another of said spindle operated cams.

1,920,880
PROPELLER CONSTRUCTION
Elgia Lawerence Parker, Hobart, Ind.
Application January 13, 1932. Serial No. 586,409
1 Claim. (Cl. 170—173)



In a propeller, a drive shaft, a hub on the drive shaft, propeller blades, bolts for securing the blades to the hub, a screw body having a concentric groove therein, nuts on the bolts, said screw body having its groove receiving the nut engaged ends of the bolts, and a set screw disposed through the body to bind against one of the nuts to prevent rotation of the screw body with respect to the hub.

1,920,881
MANUFACTURE OF TUBES FROM PAPER, CARDBOARD AND THE LIKE MATERIALS
George Calvert Paton and James Stanley Paton, Liverpool, England, assignors to James Stanley Paton, Liverpool, England
Application October 15, 1931, Serial No. 569,050, and in Great Britain December 16, 1930
4 Claims. (Cl. 164—69)



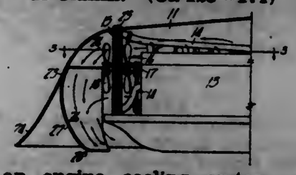
4. A machine for cutting up lengths of cardboard or like tube into relatively short sections comprising a rotatable mandrel, a cradle adapted to receive lengths of tube one at a time, a rotatable drum having a cam track formed therein, an actuating member extending from said cradle and engaging in said cam track to cause displacement of the cradle longitudinally of the mandrel for delivering and withdrawing tubes to and from the mandrel, said cam track comprising circumferential portions one at each end of the drum adapted to cause the cradle to dwell for a predetermined period of time at each end of its stroke and inclined portions connecting diagonally opposite ends of said circumferential portions adapted to cause traversing of the cradle, pairs of gate members at the junction of said inclined cam track portions adapted to be simultaneously displaced by engagement therewith of said actuating member from a position in line with one track portion to a position in line with the other track portion, a plurality of knives movable towards and away from the mandrel and means for automatically displacing said knives towards the mandrel to cut the tube into sections whilst rotating with the mandrel.

1,920,882
DISPLAY CASE
Robert E. Pellow, Waco, Tex.
Application July 12, 1932. Serial No. 622,142
2 Claims. (Cl. 312—114)



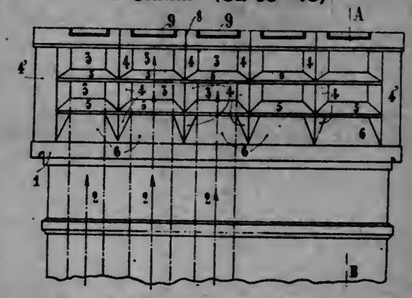
1. A display case comprising spaced end pieces having upper rounded portions and straight bottom edges, substantially U-shaped strips secured to the end pieces next to the bottom straight edges thereof, a transparent covering about the end pieces at the upper rounded portions and having its longer edges received in said U-shaped strip, a band located between the end pieces and secured medially of and to the inner face of said covering, brackets carried by the end pieces and secured to said band at opposite ends thereof, and bands transversely disposed relative to the covering at the outer side thereof and joined with the U-shaped strips.

1,920,883
ENGINE COOLING SYSTEM
Chester A. Perkins, South Bend, Ind.
Application July 7, 1932. Serial No. 621,233
11 Claims. (Cl. 123—174)



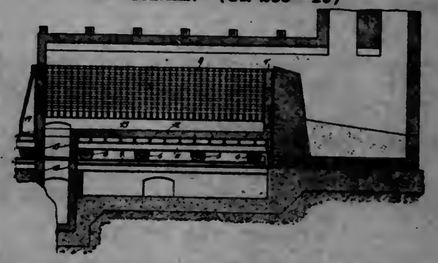
1. In an engine cooling system, a water-jacketed engine, a radiator having connection with said water jacket, a hood enclosing said engine and radiator and having a closed front spaced from said radiator, said hood having an air intake opening in one side thereof and an air outlet opening forwardly of said radiator, whereby air enters said hood rearwardly of said radiator thence moves forwardly to and through said radiator and thence is discharged through said outlet opening.

1,920,884
SUCTION STACK FOR CHIMNEYS
Louis Petrovitch, Paris, France
Application January 9, 1930, Serial No. 419,709, and in France January 10, 1929
1 Claim. (Cl. 98—78)



A suction stack for chimneys having a plurality of flues, comprising a plurality of vertical partitions arranged between the flues, each of said partitions having oppositely disposed deflected tapered edges inclined in opposite directions, and longitudinal downwardly deflected partitions secured to said vertical members at opposite sides of the stack.

1,920,885
CHECKER CHAMBER FOR REGENERATIVE FURNACES AND THE LIKE
Leon Thomas Petit, Pittsburg, Calif.
Application March 18, 1933. Serial No. 661,624
10 Claims. (Cl. 263—19)

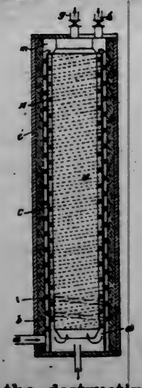


1. In a checker chamber for regenerative furnaces and the like, permanently located side, back end and top walls and a separate removable unit consisting of the bottom, front end wall and checker brick assembly of said chamber.

1,920,886
VALUABLE PRODUCTS FROM CARBONACEOUS SUBSTANCES
Mathias Pier, Heidelberg, Max Wildhagen, Mannheim, and Walter Schunck, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J., a Corporation of Delaware
Application March 24, 1928, Serial No. 264,444, and in Germany March 26, 1927
10 Claims. (Cl. 196—62)

1. A process for the conversion of carbonaceous substances into liquid hydrocarbons by de-

structive hydrogenation with hydrogen at an elevated temperature and at a pressure of more than atmospheric, which comprises preheating the said hydrogen, then bringing it into indirect heat exchange with the hot substances under treatment, thereby heating it to a temperature approaching the reaction temperature, thereupon heating it further to a temperature exceeding the reaction temperature and then bringing it into direct heat exchange with the said substances under treatment.



6. Process for the destructive hydrogenation of distillable carbonaceous materials with hydrogen at a pressure sufficient for the conversion which comprises passing a mixture of hydrogen and carbonaceous materials at a temperature sufficient for the conversion through one part of a divided reaction space, passing the hot mixture after its exit from said part of said space through another part of said space in a direction counter-current to the flow of the mixture in said first part and in indirect heat contact with the mixture in the first part of said space.

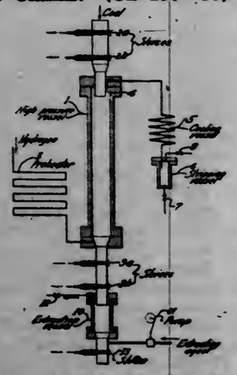
1,920,887

PRODUCTION OF VALUABLE LIQUID PRODUCTS FROM SOLID DISTILLABLE CARBONACEOUS MATERIALS BY DESTRUCTIVE HYDROGENATION

Mathias Pier, Heidelberg, Germany, assignor, by mesne assignments, to Standard-I. G. Company, Linden, N. J., a Corporation of Delaware

Application July 11, 1929, Serial No. 377,622, and in Germany July 17, 1928

6 Claims. (Cl. 196—53)



1. Process for obtaining liquids from solid distillable carbonaceous materials which comprises subjecting said materials to destructive hydrogenation at a temperature of 300 to 600° C., and a pressure of at least 20 atmospheres in the presence of an excess of hydrogen, the temperature, pressure, hydrogen pressure and duration of treatment being so correlated as to effect a substantial conversion of said carbonaceous materials into high boiling oils containing any asphalt present in an emulsified state but with the formation of little benzines, and removing said high boiling oils from the treated solid materials, and then subjecting the residue of the treated solid materials to an extraction with an organic solvent which is not a precipitant for asphalt to dissolve from said residue the organic substances which are liquid and those which liquefy upon heating.

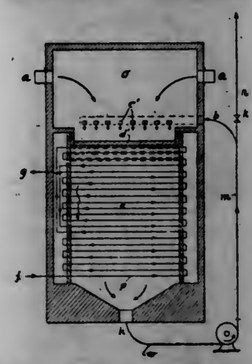
1,920,888

DESTRUCTIVE HYDROGENATION OF DISTILLABLE CARBONACEOUS MATERIALS

Mathias Pier, Heidelberg, and Wilhelm Rumpf, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J., a Corporation of Delaware

Application October 1, 1929, Serial No. 396,486, and in Germany October 9, 1928

2 Claims. (Cl. 196—116)



1. In the process for destructively hydrogenating bituminous materials with hydrogen at a temperature and pressure suitable for destructive hydrogenation and in which the hydrogen and bituminous material react with the evolution of heat and are passed at the pressure desired for the destructive hydrogenation through a tortuous confined pathway heated to the destructive hydrogenation temperature, the method of avoiding localized superheating in said confined pathway which comprises heating said confined pathway by a mixture consisting of flame gases diluted with cool gases of combustion to give said mixture a temperature at least 100° C. higher than the temperature of the destructive hydrogenation, but below 800° C.

1,920,889

CARPET SWEEPER

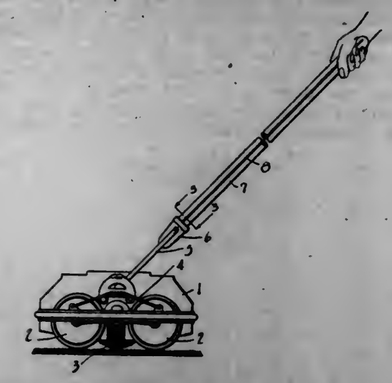
Fred W. Pullen, Grand Rapids, Mich., assignor to Bissell Carpet Sweeper Co., Grand Rapids, Mich.

Application July 18, 1929. Serial No. 379,109

4 Claims. (Cl. 175—264)

1. The combination of a carpet sweeper, a wood handle therefor with a metallic bail connected to the carpet sweeper, and a graphite line

along the said handle from top to bottom



adapted in use to connect the metallic parts with the hand of the user.

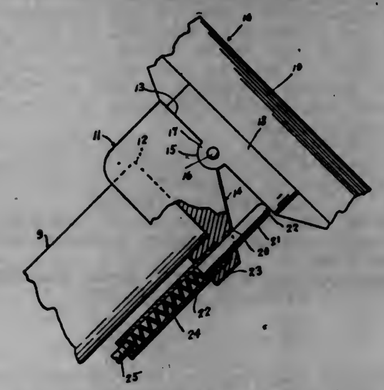
1,920,890

STEERING MECHANISM

Anders Rasmussen, New Albany, Ind.

Application October 25, 1932. Serial No. 639,515

3 Claims. (Cl. 74—89)



1. In a structure of the character described, a steering column, a mounting element on the upper end of the steering column, a second mounting element hinged to the first mounting element, a steering wheel fixed on the second mounting element, the steering wheel being arranged to be tilted relative to the steering column into a vertical position, a spring pressed member slidable axially in the first mounting element and engaged with a side portion of the second mounting element for yieldably maintaining the steering wheel in normal position.

1,920,891

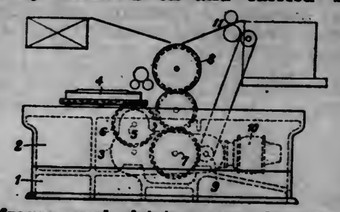
DRIVING GEAR FOR PRINTING PRESSES

Walter Rockstroh, Dresden, Germany

Application May 3, 1932, Serial No. 608,961, and in Germany September 28, 1931

11 Claims. (Cl. 101—250)

1. A printing press, comprising an impression member and a printing member, means for feeding the material to be printed between them, a main frame for said press, a subsidiary frame detachably mounted on and carried by said



main frame, and driving gear for the press housed in said subsidiary frame.

1,920,892

SPIRIT LEVEL

Phillip H. Rogers, Rocky Mount, N. C.

Application November 24, 1931. Serial No. 577,078

3 Claims. (Cl. 33—214)



1. In a level construction, a housing, a level fixedly mounted in the housing, an annulus, means for yieldably securing said annulus to said housing, said securing means including an annular member U-shaped in cross section, and bolts extending through the annulus and said U-shaped annular member.

1,920,893

POWDER COMPACT

Alfred P. Rudolph, Denver, Colo.

Application December 2, 1932. Serial No. 645,252

6 Claims. (Cl. 132—78.5)



1. A magazine powder puff comprising, a box having one side closed by a flexible diaphragm and the other side by a wall having a plurality of small openings, the box being divided into two compartments by means of a partition which is provided with an opening and a covering of fabric on the outer surface of the wall having the openings, the compartment between the partition and the flexible wall containing powder, whereby when the flexible wall is pressed inwardly, powder will be transferred through the opening in the partition into the compartment between the partition and the perforated wall and out through the small openings in the latter.

1,920,894

ELECTRIC SWITCH

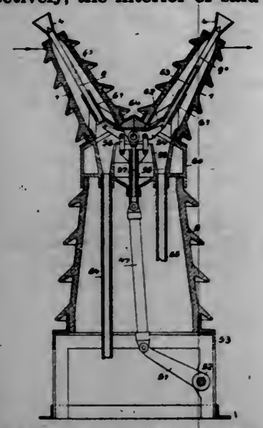
Sigwart Ruppel, Frankfort-on-the-Main, Germany

Application April 8, 1930, Serial No. 442,534, and in Germany May 24, 1929

5 Claims. (Cl. 200—148)

1. A double-pole circuit breaker of the gas-blast type comprising two pairs of relatively mov-

able contacts connected in series, each pair of contacts including a stationary nozzle-like contact and a coacting rod contact, a pair of hollow insulating casings on each of which a stationary contact is mounted, said movable rod contacts extending longitudinally of and within said casings respectively, the interior of said casings ar-



ranged to be in communication with a source of high pressure gas so that upon separation of said contacts gas may be directed from said casings and through said nozzle-like contacts to extinguish the arc, said casings being inclined in diverging directions so that the arc gases at the individual breaks are separated.

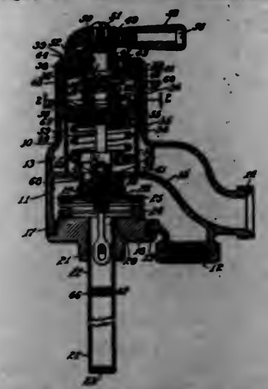
1,920,895
SUGAR DISPENSER
Theodore C. Sewell, Portland, Oreg.
Application August 29, 1932. Serial No. 630,940
3 Claims. (Cl. 221—98)



1. A sugar dispenser comprising a container, a discharge chamber mounted on the top thereof and in communication with the container through a port in the top, the discharge chamber having a discharge port, and a cup mounted in the discharge chamber and rockable to close the port of communication between the chamber and the container and open the discharge port of the chamber, and vice versa.

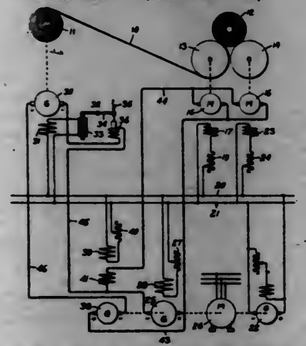
1,920,896
RADIATOR VALVE
Paul F. Shivers, Wabash, Ind., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a Corporation of Delaware
Application May 12, 1930. Serial No. 451,585
3 Claims. (Cl. 236—42)

1. Thermo-responsive valve mechanism comprising a casing provided with an inlet passage and an outlet passage, a partition separating said passages and provided with a port, a valve seat surrounding said port, a valve in said inlet passage and movable into and out of cooperable relation with said seat, thermo-sensitive means tending, upon increase in the temperature thereof, to move said valve toward said seat, a stem on said valve and projecting into said outlet passage, an abutment on said stem, a



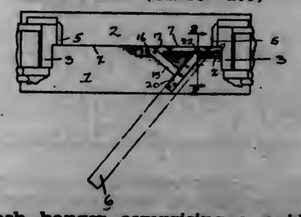
spring engaging said abutment, a threaded element in said outlet passage, a projection on said element and extending outside said casing, a nut threadedly mounted on said threaded element and providing an abutment for the opposite end of said spring, means engaging said projection for rotating said threaded element, and a plurality of fingers on said nut slidably received in grooves in said casing for preventing rotation of said nut.

1,920,897
CONTROL SYSTEM
David R. Shoults, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York
Application March 5, 1932. Serial No. 597,034
9 Claims. (Cl. 242—75)



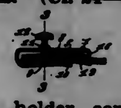
1. A motor control system including a driving motor arranged to continuously drive a load, a dynamo electric machine mechanically connected to said load so as to oppose the driving effort of said motor, an auxiliary generator, field windings therefor, connections for connecting said auxiliary generator in local circuit with said dynamo electric machine, and means for separately exciting at least one of said field windings so that said dynamo electric machine exerts a torque on said load while at standstill.

1,920,898
SASH HANGER
Arthur C. Seule, San Francisco, Calif.
Application November 7, 1928, Serial No. 317,754
Renewed August 7, 1931
10 Claims. (Cl. 16—179)



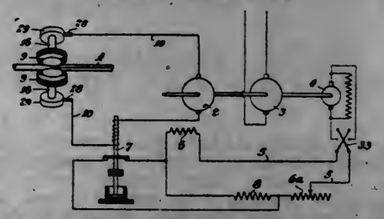
1. A sash hanger comprising a guide plate having a guideway therein extended lengthwise of the plate, one end of the guideway being curved inwardly toward the edge of the guide plate, and a pair of curved slots arranged in matching relation across the width of the plate at the end thereof opposite the guideway; a sash plate having an end thereof slidably pivoted in the guideway; and a carrier arm pivoted at one end to the sash plate and slidably pivoted at its other end to the curved slots in the guide plate.

1,920,899
HAIRCLOTH HOLDER
William L. Sullivan, Pasadena, Calif.
Application May 27, 1932. Serial No. 613,980
3 Claims. (Cl. 24—243)



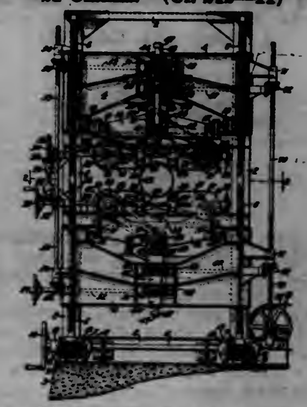
1. A hair cloth holder comprising a clip formed from a single piece of material bent upon itself to provide a body, an inner jaw and an outer jaw, said inner jaw being grooved to provide the jaw with a central rib, the said outer jaw being grooved to provide the latter with spaced end ribs, and a movable member extended through the body and contacting with the inner jaw to force the latter toward the outer jaw.

1,920,900
APPARATUS FOR PRODUCING ELECTRICALLY WELDED PIPE AND TUBING
Wilfred Sykes, Chicago, Ill., assignor, by mesne assignments, to Clayton Mark & Company, Chicago, Ill., a Corporation of Delaware
Original application January 9, 1928, Serial No. 245,309. Divided and this application June 5, 1930. Serial No. 459,302
5 Claims. (Cl. 219—6)



4. In apparatus for electrically welding a tube blank, a pair of welding electrodes for engaging the tube on opposite sides of the seam to be welded, means for causing the tube to travel longitudinally while engaged by said electrodes, and means for supplying to said electrodes a direct current of substantially constant value for thereby causing the walls on the opposite sides of the seam to be formed into a continuous and uninterrupted weld, said means comprising a separately excited direct current generator connected to said electrodes.

1,920,901
PIPE WRAPPING MACHINE
Dozier Finley, Berkeley, Calif., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware
Application January 12, 1931. Serial No. 508,143
21 Claims. (Cl. 242—11)



1. A machine for imparting a combined rotary and longitudinal motion to a cylindrically-shaped object comprising an endless belt adapted to tractionally engage the object, means for holding said belt at a selected angle to the axis of said object, means contacting with the belt and bearing against the object for firmly holding the belt in tractional engagement with the object, and means for driving the belt.

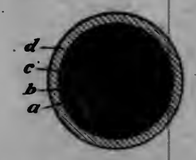
1,920,902
MACHINE FOR MAKING PADS FOR SOCK HOLDERS
Jacob Goldschmidt, Duesseldorf, Germany
Application August 9, 1929, Serial No. 384,754, and in Germany October 17, 1927
1 Claim. (Cl. 223—15)



In a machine for finishing blank into pads for sock holders, erecting dies having holes adapted to retain certain marginal portions of the blank, an upper die head adapted to move through said holes with the blank for erecting the retained marginal portions of the blank, means on the last erecting die for folding the erected portions down onto the body of the blank, a plunger on said upper die head, means for advancing said plunger beyond the upper die head, a finishing die having a hole of larger area than said plunger, a lower die head adapted to enter the hole in the finishing die in the opposite direction to the movement of said plunger, the blank being engaged between said plunger and said lower die head; and means on said finishing

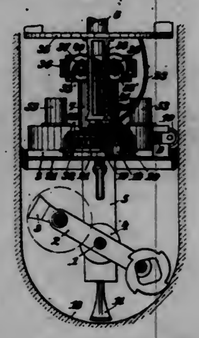
die for folding over the erected portions of the blank down onto the body of the blank in the clearance between said plunger and the hole in said finishing die.

1,920,903
HIGH TENSION CABLE
Karl August Haanen, Cologne-Mulheim, and Hans Meurer, Cologne, Germany, assignors to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany
Original application July 7, 1925, Serial No. 42,184, and in Germany December 27, 1924, now Patent No. 1,808,407, dated June 2, 1931. Divided and this application May 24, 1926. Serial No. 111,396
1 Claim. (Cl. 173—264)



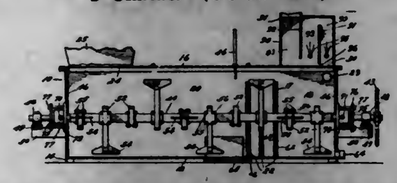
An electric cable including a conducting core and insulating impregnated unloaded and unsized paper covering said core, said paper having had its thickness reduced at least 15% from its original thickness by compression thereof and having a density above 0.9 grams per cubic centimetre in its unimpregnated state and the necessary tensile strength for wrapping it round the conducting core.

1,920,904
ROCK-BORING MACHINE
Ludwig Hammer, Vienna, Austria
Application March 31, 1931, Serial No. 526,690, and in Austria March 25, 1930
22 Claims. (Cl. 262—7)



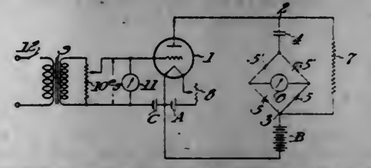
1. Rock-boring machine comprising in combination a circular carrier, clamping means on said carrier for securing it in the well, a vertical bearing arranged in said carrier, a forked member mounted freely movable in said bearing, a system of chisels mounted rotatable in a vertical plane in said forked member, means mounted on said forked member for rotating said system of chisels, a pressure pipe secured to said rotating forked member, a suction pipe also secured to the latter, the outlet of said pressure pipe facing the inlet of said suction pipe and both pipes being located at a right angle to the rotating system of chisels.

1,920,905
LIME SLAKING APPARATUS
Elmer E. Harper, Kansas City, Mo.
Application May 13, 1929. Serial No. 362,606
4 Claims. (Cl. 23—287)



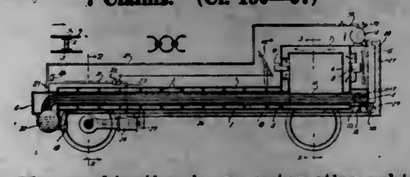
3. Lime slaking apparatus comprising a receptacle, mechanical agitating means comprising a shaft provided with bearings outside the receptacle and stirring arms operating inside the receptacle, and water supply means comprising a connection providing an annular inlet port around the shaft and through the corresponding end wall of the receptacle.

1,920,906
TUBE TESTER
William Nelson Goodwin, Jr., Newark, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a Corporation of New Jersey
Application October 31, 1930. Serial No. 492,560
7 Claims. (Cl. 250—27)



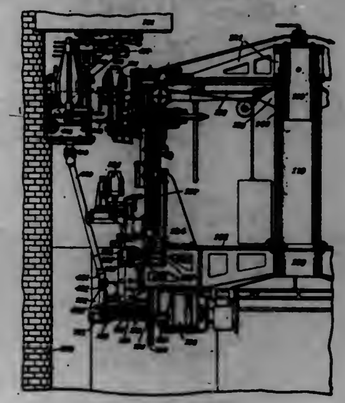
1. In the process of determining the mutual conductance of a vacuum tube, the method which comprises impressing a predetermined alternating current voltage upon the grid circuit of said tube, rectifying the alternating component resulting in the plate circuit from said impressed voltage, and measuring the rectified current.

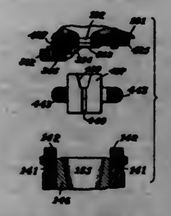
1,920,907
STEAM GENERATOR FOR AUTOMOTIVE VEHICLES
Walter Douglas La Ment, Larchmont, N. Y., assignor to La Ment Corporation, New York, N. Y., a Corporation of New York
Application July 28, 1927. Serial No. 209,024
7 Claims. (Cl. 180—67)



1. The combination in an automotive vehicle, a combustion chamber and steam generating elements extending longitudinally throughout a substantial portion of the length thereof, a casing enclosing said elements through which casing the heating gases may pass, a longitudinally celled casing outside said first mentioned casing and through which the air to be used for combustion passes before entrance thereof into the combustion chamber.

1,920,908
MACHINE FOR MAKING ARTICLES FROM MOLTEN MATERIAL
Frank H. Lobb, Ridley Park, Pa., assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware
Original application April 29, 1921, Serial No. 465,440. Divided and this application August 22, 1927. Serial No. 214,691
42 Claims. (Cl. 49—55)





1. In a machine for making molded articles, traveling molded mechanism, means for supplying moldable material to said mechanism, a knife controlling the flow of material from said means, and for severing the material supplied by said means, said knife, during its severing movement, traveling in the same direction as the said molding mechanism, and a forming cup interposed between said knife and said molding mechanism.

12. In a machine for making molded articles, molding mechanism, means, located above said mechanism, for supplying moldable material thereto, a forming cup and a trough movable laterally in unison between said supplying means and said molding mechanism, to bring said cup and trough selectively into receiving relation to said supplying means, and means for adjusting said cup up or down relatively to said trough.

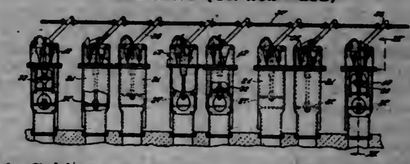
1,920,909
IRON OR STEEL AND PROCESS OF MAKING OR TREATING SAME
Joseph R. C. Marsh, Chicago, Ill., assignor to Francis N. Bard, Chicago, Ill.
No Drawing. Application January 10, 1920
Serial No. 350,549
2 Claims. (Cl. 75—45)

2. The method of treating a ferro metal which consists in combining in a melted state such metal and copper, then combining with the molten combination of said metal and copper a proper proportion of manganese while said combination and said manganese are in a melted state, and then combining with this combination chromium while this combination and said chromium are both in a melted state.

1,920,910
ALLOY STEEL AND ITS MANUFACTURE
Joseph Russel Cornell Marsh, Arlington Heights, Ill., assignor to Francis Norwood Bard, Chicago, Ill.
No Drawing. Application October 24, 1923
Serial No. 670,524
4 Claims. (Cl. 75—1)

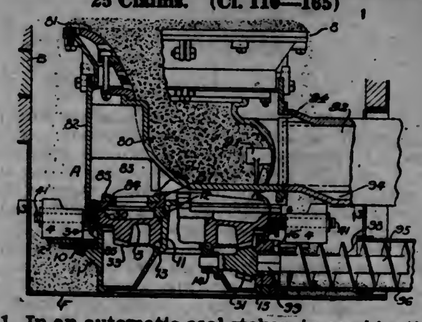
2. As a new product, a stable surface alloy steel capable of being worked and comprising aluminum from .07 to .38 percent, copper from .70 to 1.25 percent, carbon from .09 to .30 percent and the balance iron.

1,920,911
COKING APPARATUS
Nils Albin Olsson, Bellevue, and Chauncey P. Fuller, Pittsburgh, Pa., assignors to The Koppers Company of Delaware, a Corporation of Delaware
Application November 20, 1929
Serial No. 408,660
7 Claims. (Cl. 202—151)



1. Coking apparatus comprising structure adapted for combustion therein, means for conducting air and fuel gas to and waste gases from said structure and comprising reversing boxes for controlling the supply of combustible media to said structure and the discharge of waste gases therefrom, each of said reversing boxes comprising a valve for controlling the supply of fuel gas, a second valve for controlling the supply of air and a third valve for controlling the flow of waste gases, a controlling member connected to said third valve and means for selectively connecting said controlling member to either the fuel gas valve or the air valve.

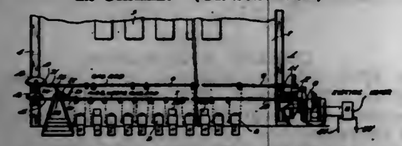
1,920,912
COAL STOKER
Adolph Ousdahl, Seattle, Wash., assignor, by mesne assignments, to Henry M. Brooks, New York, N. Y., William Tudor Gardiner, Augusta, Maine, and Richard Kingsley Hawes, Fall River, Mass., as Trustees
Application August 29, 1927. Serial No. 216,059
25 Claims. (Cl. 110—165)



1. In an automatic coal stoker, in combination, a burner structure, supply conduits connected

thereto, means for advancing fuel through a supply conduit, a base supporting said burner structure, an ash ring supported on said base, ash scrapers movable over said ash ring, an ash conduit adapted to receive ashes from said ring, and means independent of said fuel advancing means and said burner structure for moving said scrapers.

1,920,913
COKE OVEN APPARATUS
Frederick J. Pfluke and Linn B. Bowman, Rochester, N. Y., assignors to The Koppers Company of Delaware, a Corporation of Delaware
Application February 26, 1929. Serial No. 342,859
12 Claims. (Cl. 202—151)



1. A coke oven apparatus comprising gas-combustion heating means therefor; a common passageway for conveying gas to the combustion means and for conveying waste gas therefrom; valved gas-inlet means for conveying gas for the combustion means to said common passage; valved waste-gas-outlet means for conveying waste gas of the combustion means from said common passage; reversing mechanism for controlling the positions of the valves of said valved means, and interlocking means for preventing the opening of the valve of one of the valve means when the valve of the other valved means is open.

1,920,914
DEHUMIDIFIER
George E. Poggel, Louisville, Ky., assignor to Advance Manufacturing Company, Louisville, Ky., a Corporation of Kentucky
Application April 29, 1929. Serial No. 359,063
2 Claims. (Cl. 183—4)



1. In a dehumidifier, the combination with an outer shell of open-work construction, of an inner shell of open-work construction comprising inner and outer walls each having interstices, and an open air circulating space within the confines of the inner wall which is in air communication with the space between the said inner and outer walls, dehumidifying chemicals contained within the space between the inner and outer walls of the inner shell, and heating means within the said open air space which circulates the air which enters the open air circulating space within the confines of the inner wall of the inner shell, and thereby causes the air outside the dehumidifier to travel through the chemicals and to circulate past them.

1,920,915
DEHUMIDIFIER
George E. Poggel, Louisville, Ky., assignor to Advance Manufacturing Company, Louisville, Ky., a Corporation of Kentucky
Application February 25, 1930
Serial No. 431,214
4 Claims. (Cl. 183—4)



3. In a dehumidifier, the combination with an air-previous container for holding and exposing chemicals having moisture-absorbing property, of a chemical-holding reservoir adapted for feeding chemicals to the container, a moisture-precipitating fabric surrounding the air-previous chamber, and means controlling the feed of the chemicals from the reservoir to the container.

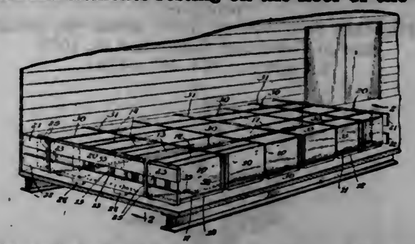
1,920,916
SELECTIVE SEAM DETECTOR
Charles G. Richardson, Springfield, Vt., assignor to Parks & Woolson Machine Company, Springfield, Vt., a Corporation of Vermont
Application March 3, 1932. Serial No. 596,449
12 Claims. (Cl. 26—17)



1. A selective feeler mechanism for energizing seam-protecting means embracing a feeler finger arranged to be engaged and moved to energizing position by a passing cloth-seam extending transversely of the cloth, and means for shifting said finger transversely of the cloth to release the finger from engagement with a narrow protuberance on the cloth before the feeler is moved to energizing position.

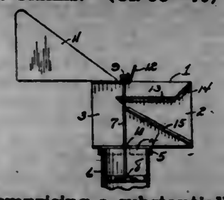
1,920,917
METHOD OF AND MEANS FOR LOADING AND TRANSPORTING MERCHANDISE
Lewis J. Scales, Gary Ind., assignor to Signode Steel Strapping Company, Chicago, Ill., a Corporation of Delaware
Application February 23, 1933
Serial No. 658,104
7 Claims. (Cl. 105—369)

1. The method of transporting merchandise in a vehicle which consists in binding together as a unit by a flexible metallic binder a group of merchandise elements resting on the floor of the ve-



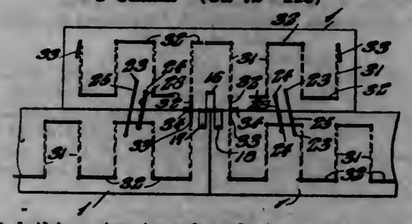
hicle, and applying a braking effect to the binder to control the shifting on the vehicle floor of the load group encircled thereby.

1,920,918
VENTILATOR CAP
Dickson Stainhofer, Lewistown, Mont.
Application June 22, 1932. Serial No. 618,768
2 Claims. (Cl. 98—70)



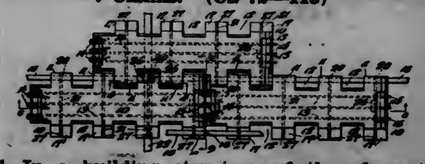
1. A cap comprising a substantially rectangular shaped casing having intake and exhaust ends, means rotatably connecting the casing to a flue for permitting the latter to exhaust into said casing, a vane secured to said casing, the top wall of said casing being cut away to form an entrance, and a deflector for engaging air currents travelling in a downward direction, a partition in said casing and underlying the cut away portion of the top wall of the casing, and an upwardly and rearwardly extending baffle in said casing cooperating with the partition to direct air currents entering the inlet end of the casing in an upward and rearward direction.

1,920,919
BUILDING STRUCTURE
Frederick M. Vennie, Philadelphia, Pa.
Application May 17, 1929. Serial No. 363,894
1 Claim. (Cl. 72—118)



A lathing structure for plaster walls comprising supporting studs, panels extended across the front faces of said studs and secured with respect thereto, means including clips for holding adjacent panels together, each panel being reinforced by means of a continuous wire extending both longitudinally and laterally of said panel, whereby the longitudinally extended portion of said wire is exposed and the laterally extended portion of said wire is concealed, the arrangement of said wire being such that the exposed portions of said wire when severed may have the cut ends thereof twisted with respect to the cut ends of an exposed portion of said wire of a companion plaster board, each of said panels being apertured in spaced and staggered relation, and a pair of tie rods arranged in parallelism, which tie rods are arranged at an inclination, each tie rod passing from a panel back through an aperture and across the front faces of adjacent panels for coupling said adjacent panels together independently of said clips.

1,920,920
BUILDING CONSTRUCTION
Frederick M. Vennie, Philadelphia, Pa.
Application December 13, 1930. Serial No. 502,156
7 Claims. (Cl. 72—118)

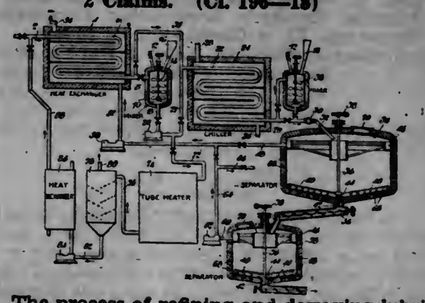


1. In a building structure of the character stated, rectangular floor slabs of pre-cast cementitious material the opposed longitudinal edges of each slab being provided with spaced, laterally disposed fingers, the fingers of adjacent slabs being arranged to have interlocked connection one with another, and the lateral edges of which have interlocked, hook and eye connection one with another.

1,920,921
ARC CARBON
Merrill J. Dorcas, Cleveland, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York
No Drawing. Application January 27, 1928
Serial No. 250,069
2 Claims. (Cl. 176—134)

1. A core for carbon electrodes comprising calcium fluoride 40 parts, strontium fluoride 10 parts, sodium or potassium silicate 5 parts, carbon flour 45 parts, and tar sufficient to bind.

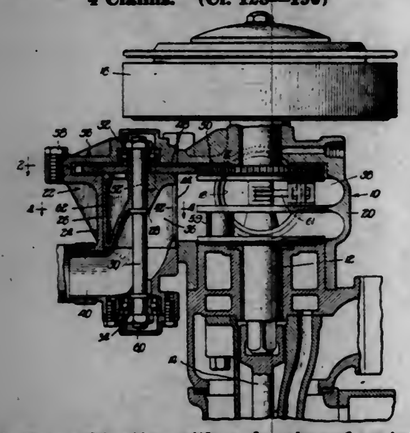
1,920,922
PROCESS FOR DEWAXING AND REFINING OILS
Henry N. Lyons, South Orange, N. J., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware
Application April 29, 1929. Serial No. 358,795
2 Claims. (Cl. 196—13)



2. The process of refining and dewaxing lubricating oil stocks, which comprises mixing the oil stock to be treated with a refining clay, heat-

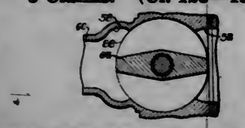
ing the mixture in a confined stream to a temperature sufficient to vaporize any water contained in the mixture, passing the heated mixture into a vapor separating chamber from which the vaporized water is permitted to escape, cooling the remaining oil-clay mixture to a temperature sufficient to precipitate the wax in the mixture, and separating the clay and precipitated wax from the oil by a mechanical thickening operation.

1,920,923
OUTBOARD MOTOR ASSEMBLY
Louis J. Johnson, South Bend, Ind., and Harry L. Johnson, Waukegan, Ill., assignors to Johnson Brothers Engineering Corporation, South Bend, Ind., a Corporation of Indiana
Application January 28, 1929. Serial No. 335,446
4 Claims. (Cl. 123—190)



1. In combination with a chamber of an internal combustion engine, a rotary valve unit including a closed casing independently secured to the wall of said chamber and communicating therewith, said casing provided with a bore, a cylindrical valve rotatable within said bore, a shaft extending axially of and supporting the cylindrical valve, a gear connected to said cylindrical valve and extending through the valve opening into the chamber, a separate removable member for protectively covering and enclosing said gear, and means connecting said gear with a movable element of the engine.

1,920,924
ROTARY VALVE
Walter L. Gorden, Waukegan, Ill., assignor to Johnson Brothers Engineering Corporation, Waukegan, Ill., a Corporation of Indiana
Application November 8, 1929. Serial No. 405,680
3 Claims. (Cl. 123—190)



1. A rotary valve assembly comprising a casing having an inlet port and an outlet port, and a valve body rotatable therein having only a diametric partition which forms a plurality of openings with the casing walls in which it is rotated together constituting a double passage which connects the inlet and outlet twice each rotation of the body.

1,920,925
ELECTRICALLY OPERATED VALVE
Wilhelm Juchheim and Ernst Juchheim, Ilmenau, Germany
Application February 23, 1932, Serial No. 594,522, and in Germany November 19, 1931
2 Claims. (Cl. 137—139)



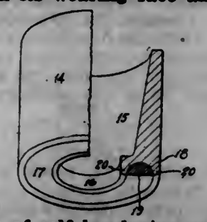
1. An electrically operated valve for gas and liquids, comprising in combination, the valve body proper having the shape of a cylinder and being made of glass, the said cylinder being open at its ends and made integral with tubular elongations serving as inlet and outlet for gas and liquids, a piston made of glass arranged within said cylinder, the top of said piston and the upper part of said cylinder having perfectly ground cone surfaces of identical shape, the cone surface of said cylinder serving as valve seat, a magnetic envelop surrounding the body of said glass-made piston, an annular, enlarged portion formed in the lower part of said cylinder, a sieve disposed in said enlarged portion and adapted to support said piston in its inoperative position, a field coil, an annular projection carried exteriorly by said cylinder and situated intermediate said sieve and said cone surface of the cylinder, the said projection being adapted for supporting said field coil which embraces said cylinder, said field coil when receiving current over a contact device, influencing said magnetic envelop in the manner of a solenoid and causing raising movement to said piston up to the valve seat, thereby shutting off passage of supply, the interruption of current causing said piston to fall by its initial weight down upon the said supporting sieve, thereby opening the valve.

1,920,926
MINERAL OIL EMULSION
Harry Noonan, White Plains, N. Y., assignor to The Drug Products Co., Inc., Long Island City, N. Y., a Corporation of New York
No Drawing. Application November 6, 1930 Serial No. 493,922
3 Claims. (Cl. 167—56)

1. A laxative comprising a colloidal oil-in-water type mineral oil emulsion comprising a homogeneous and fine dispersion of substantially 70% by volume of a highly refined mineral oil in a jelly comprising substantially $\frac{1}{8}$ of 1% of psyllium seed, substantially $\frac{1}{16}$ of 1% agar agar and substantially 7/100 of 1% gelatine.

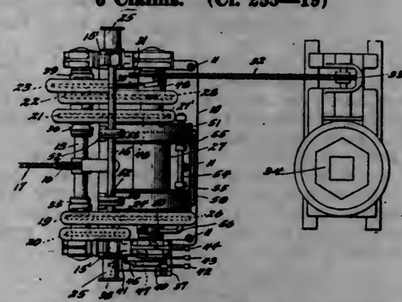
1,920,927
FERRULE FOR CABLE ENDS AND METHOD OF FORMING SAME
Walter H. Nourse, Portland, Oreg., assignor to Electric Steel Foundry Company, Portland, Oreg.
Application March 21, 1931. Serial No. 524,398
1 Claim. (Cl. 24—123)

A steel ferrule for cable ends comprising a cylindrical steel sleeve having a cable opening in one end thereof and an enlarged recess in the opposite end thereof communicating with said cable opening, the end of said sleeve having the cable opening therein having an annular recess around same on its wearing face and having a



continuous ring of self hardening metal welded into said recess, said metal being of a character enabling same to withstand a temperature sufficient to melt zinc without affecting the Brinell hardness of the welding material.

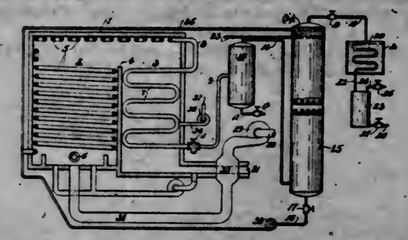
1,920,928
DRAW WORKS
Victor W. Zilen, Buffalo, N. Y.
Application August 31, 1929. Serial No. 389,833
6 Claims. (Cl. 255—19)



1. Draw-works for installation on the derrick floor as a complete and independent unit comprising a one piece metal base, uprights integral with said base, horizontal line and drum shafts mounted on said uprights with the axis of the line shaft substantially below the horizontal plane passing through the axis of the drum shaft, sprockets on said shafts and chain connections between the line shaft and the drum shaft sprockets for driving the latter at different speeds, and levers mounted on said base for controlling said connections.

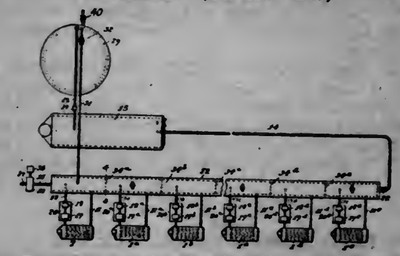
1,920,929
PROCESS FOR CRACKING PETROLEUM HYDROCARBONS
Walter M. Cross, Kansas City, Mo., assignor to Gasoline Products Company, Inc., New York, N. Y., a Corporation of Delaware
Application May 9, 1929. Serial No. 361,632
2 Claims. (Cl. 196—58)

1. A process of cracking hydrocarbon oil comprising the steps of passing oil through a section of a continuous coil in a heating zone, effecting combustion for said heating zone and subjecting the oil during substantially its entire travel through said section of the continuous coil to the radiant heat of combustion whereby it is rapidly brought to a cracking temperature, then passing the oil through another section of the coil in a second heating zone where it is subjected to convection heat from combustion gases derived from said first heating zone controlled to maintain the oil at a cracking temperature lower than the cracking temperature attained by it in said first heating zone, then passing the oil through another section of the coil in the second heating zone



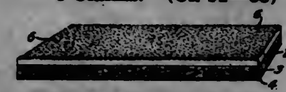
where the temperature of the oil is rapidly decreased by the introduction of a cooling medium into the oil, and removing and vaporizing the oil.

1,920,930
APPARATUS FOR TREATING HYDROCARBONS
Walter M. Cross, Kansas City, Mo., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del., a Corporation of Delaware
Original application November 1, 1916, Serial No. 128,839. Divided and this application filed March 31, 1921. Serial No. 454,718
4 Claims. (Cl. 196—108)



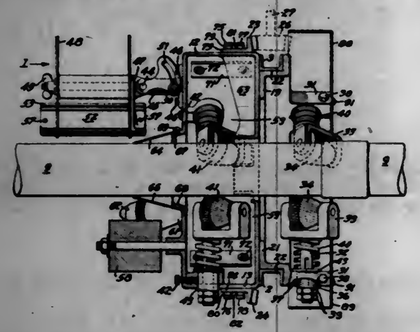
1. In an apparatus for treating petroleum, the combination with a plurality of tubes through which oil is circulated for the purpose of raising it to a conversion temperature, of an enlarged conversion chamber connected therewith, connections adapted to permit the continuous circulation of oil through the tubes and the conversion chamber, a still having communication with the conversion chamber, a pressure reduction valve in the communicating line between the conversion chamber and still, a single condensing means connected by separate lines to the still and conversion chamber for condensing the volatile material separated out in the respective stages.

1,920,931
ROOFING MATERIAL
Dozier Finley, Berkeley, Calif., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware
Application February 17, 1930. Serial No. 429,040
3 Claims. (Cl. 91—68)



1. A roofing material comprising a moisture-proof layer, and a variegated surface layer of bimetallic granules, said granules being of one metal partially coated with a metal of different color.

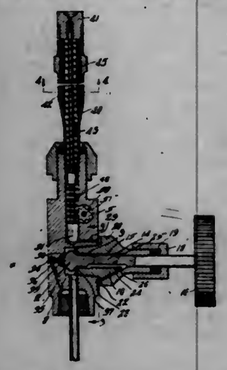
1,920,932
PIPE WRAPPING MACHINE
Dozier Finley, Berkeley, Calif., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware
Application May 30, 1930. Serial No. 457,601
11 Claims. (Cl. 242—11)



1. A pipe wrapping machine comprising a frame, a rotor journaled on the frame and adapted to surround the pipe to be wrapped, a plurality of adjustable spring pressed rollers on the rotor for advancing the machine along the pipe, the rear portions of said rollers being cylindrically shaped and the forward portions being conically shaped, and means for applying a helical winding to the pipe.

2. A pipe wrapping machine comprising a frame, a rotor journaled on the frame and adapted to surround the pipe to be wrapped, means on the rotor for advancing the machine along the pipe, means for applying a helical winding to the pipe, and means for applying a fluid to the pipe.

1,920,933
LIQUID FUEL VAPOR BURNER
Chester A. Hoff, Akron, Ohio, assignor to The Akron Lamp Company, Akron, Ohio, a Corporation of Ohio
Application January 11, 1930. Serial No. 420,040
6 Claims. (Cl. 67—41)



5. In a vapor burner, means for starting the burner comprising a mixing chamber for air and liquid fuel, a tortuous passage from the chamber to the burner, and means to admit air to the chamber comprising a valve adapted to cooperate with a capillary port in the wall of the chamber for the admission of air thereto and having a needle for entering the port.

1,920,934
CORROSION RESISTING STEEL
William Herbert Keen, Albany, N. Y., assignor to Chas. W. Guttzeit, New York, N. Y.
No Drawing. Application July 10, 1928
Serial No. 291,697
17 Claims. (Cl. 75—1)

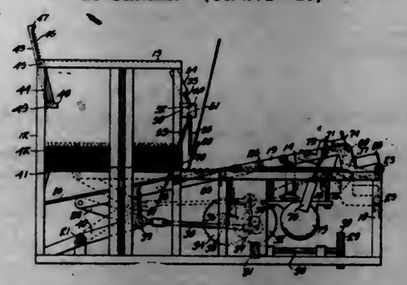
1. A corrosion resisting steel containing 1.5% to 20% chromium, and 0.5% to 2% magnesium, the remainder being substantially iron.

1,920,935
ARTIFICIAL FISH BAIT
Herman F. Khoenle, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio
Application February 10, 1930. Serial No. 427,084
4 Claims. (Cl. 43—47)



1. An artificial fish bait comprising a bait body, hooks suspended from the lower side and rear end of the bait body, fastenings secured to the bait body for the hooks including a screw eye threaded into the rear end of the bait body for suspending the rear hook, a sleeve in said end of the bait body about the shank of the screw eye, said sleeve projecting from the end of the bait body, a spinner journaled on the projecting portion of the sleeve, said sleeve being formed with an enlarged cup at its rear end embracing the forward portion of the eye of the screw eye, and a fin on the upper side of the bait body.

1,920,936
PHONOGRAPH
Wendell E. Miller and William J. Sheubrooks, West Palm Beach, Fla., assignors to Automatic Phonograph Corporation, a Corporation of Delaware
Application November 7, 1929, Serial No. 405,404
Renewed December 19, 1932
17 Claims. (Cl. 274—10)



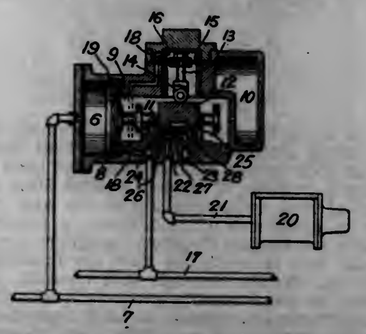
1. A phonograph for playing a series of records comprising a tilting table, a stationary record support, means for tilting the table to move a record from playing position to the record support and for reversely tilting it for moving a record from the record support to playing position, and means operable by the tilting table for moving the tone arm out of playing position and restoring it to playing position as a record is placed on the table, substantially as set forth.

1,920,937
SHADE ROLLER
William Dasley, Fairfield, Conn., assignor to William F. Smith and Charles F. Schmelz, both of Bridgeport, Conn.
Application July 14, 1932. Serial No. 622,425
16 Claims. (Cl. 156—28)



1. A device of the character described comprising a case, a pulley adapted to have one end of the shade roller coupled thereto, a brake-band anchored at one end on said case and having its free portion frictionally engaging said pulley, and a plate secured to said case and retaining said pulley within the same.

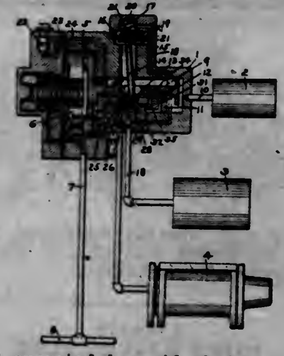
1,920,938
VALVE LOADING DEVICE
Ellis E. Hewitt, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania
Application May 11, 1929, Serial No. 362,333
Renewed August 12, 1932
9 Claims. (Cl. 303—1)



1. A valve device for fluid pressure apparatus including a valve in a valve chamber, and fluid pressure operated means subject to the opposing pressures of said chamber and a substantially constant pressure for holding said valve to its seat.

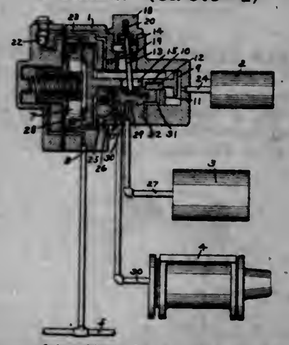
1,920,939
VALVE SEATING DEVICE
Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania
Application May 8, 1931. Serial No. 535,955
13 Claims. (Cl. 303—1)

1. In a fluid pressure operated valve device, the combination with a slide valve contained in a slide valve chamber normally charged with fluid under pressure, and exposed on its seat side to fluid under pressure, of an abutment subject on one side to the pressure in said valve chamber and on the opposite side to an opposing pressure, and a stem having rocking engagement with said



valve and operated by said abutment to exert pressure on said valve.

1,920,940
MEANS FOR HOLDING SLIDE VALVE TO SEAT
Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania
Application May 8, 1931. Serial No. 535,954
Renewed August 12, 1932
6 Claims. (Cl. 303—1)

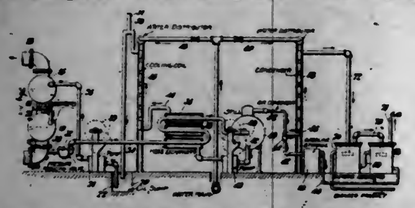


1. The combination in a casing containing a slide valve subject on its seating face to fluid under pressure, of a pin having one end engaging and movable with said slide valve, and a spring acting on said pin for holding said slide valve seated, the pressure exerted by the spring being the sole pressure which is transmitted through the pin to the valve.

1,920,941
PROCESS FOR RECOVERING GASOLINE AND OTHER HYDROCARBON LIQUIDS FROM NATURAL GAS
Wilbur G. Laird, New York, N. Y., assignor to Henry L. Doherty, New York, N. Y.
Application January 5, 1927. Serial No. 159,052
2 Claims. (Cl. 196—8)

1. In the process of producing natural gas gasoline from natural gas, in which hydrocarbons from natural gas are absorbed by means of an absorbing medium, the improvement which comprises effecting the separation of said hydrocarbons from said medium by distillation, passing the vapors so produced through a condensing zone in an air cooled condenser to effect a condensation of a portion of the heavier hydrocar-

bons, passing the vapors leaving said condenser into a separate condensing zone in an upright



condensing unit whereby additional hydrocarbons are condensed, and mixing said condensates to produce said gasoline.

1,920,942

PAPER MANUFACTURE

Harold Robert Rafton, Andover, Mass., assignor to Raffold Process Corporation, a Corporation of Massachusetts

No Drawing. Application August 26, 1931 Serial No. 559,594

23 Claims. (Cl. 92—38)

1. In the manufacture of paper filled with alkaline filler, the improvement which comprises refrigerating the aqueous fibrous mix from which said paper is made at a point prior to that at which the web formed from said mix passes from the web-forming device.

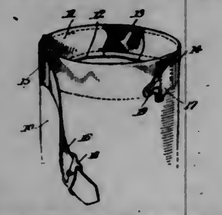
1,920,943

SELF-SUPPORTING HOSIERY

William L. Thompson, Indianapolis, Ind., assignor to Real Silk Hosiery Mills, Inc., Indianapolis, Ind., a Corporation of Indiana

Application November 8, 1930. Serial No. 494,401

12 Claims. (Cl. 2—240)



1. In combination with a stocking leg, a circumferentially-extending supporting means, entirely encircling the same, said means being elastic for only a portion of its length and secured to the stocking fabric at the ends of such portions so that the band will effect a tension over a restricted part of the circumference of the stocking leg.

1,920,944

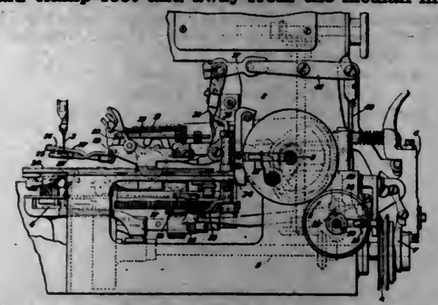
THREAD-CUTTING MECHANISMS FOR SEWING MACHINES

Alfred R. Wood, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey

Original application December 4, 1931, Serial No. 578,966. Divided and this application December 1, 1932. Serial No. 645,186

2 Claims. (Cl. 112—252)

1. In a buttonhole sewing machine, the combination with a work-clamp having right and left clamp-sections divided by a median line and each including an upper clamp-foot, of a thread-trimmer and nipper device pivotally mounted on the clamp-foot of one of said sections in position to perform its closing movement toward the side of said clamp-foot and away from the median line



of the work-clamp, and means for opening and closing said device.

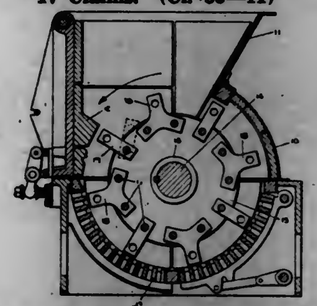
1,920,945

ROTARY MATERIAL REDUCING MACHINE

John T. Fowler, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio

Application July 25, 1930. Serial No. 470,717

17 Claims. (Cl. 83—11)



1. In a machine of the class described, a casing having an upwardly directed feed opening, a rotor body in said casing, said rotor body comprising a number of spaced coaxial discs and a series of rods supported about the axis of the discs in apertures of said discs, a number of radially projecting flotation hammers mounted on said rods between the discs for floating material fed thereto through said opening, and a number of centrifugally projected material reducing hammers pivoted to said rods between the discs and having relatively great yieldability under tangentially directed impacts as compared to the flotation hammers, said material reducing hammers only partially filling the spaces between their adjacent discs.

1,920,946

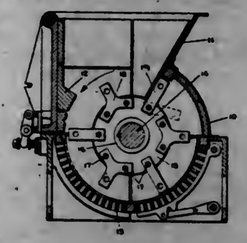
ROTARY MATERIAL REDUCING MACHINE

Walter J. Armstrong, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio

Application July 25, 1930. Serial No. 470,738

18 Claims. (Cl. 83—11)

1. In a machine of the class described, a casing having an upwardly directed feed opening, a rotor body in said casing, said rotor body comprising a number of spaced co-axial discs and a series of rods supported about the axis of the discs in apertures of said discs, a number of radially projecting flotation hammers mounted on said rods between the discs for floating material fed thereto through said opening, and a number of centrifugally projected material reducing hammers pivoted to said rods between the discs and having relatively great yieldability under tangentially directed impacts as compared to the flotation hammers, said flotation and material reducing hammers only partially filling the spaces between their adjacent discs, the reducing hammers having a normally greater radial projection than the flotation hammers, said hammers being arranged in alternating rows extending axially of the rotor body with the hammers of each two adjacent rows staggered relative to the hammers of the next two adjacent rows to form groups each comprising a leading flotation hammer and a trailing material reducing hammer.



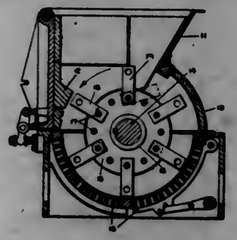
1,920,947

ROTARY MATERIAL REDUCING MACHINE

Walter J. Armstrong, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio

Application July 25, 1930. Serial No. 470,739

16 Claims. (Cl. 83—11)



1. In a machine of the class described, a rotor body, relatively heavy hammers pivoted to the rotor body and acting to float material on the rotor upon rotor rotation, and relatively light hammers pivoted to the rotor body, said relatively light hammers being relatively yieldable under tangential reducing impact upon said material as compared to the relatively heavy hammers, the heavy hammers having a smaller normal radial projection than the light hammers.

1,920,948

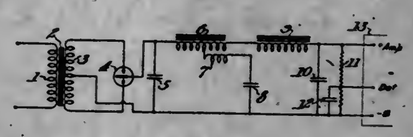
ELECTRICAL FILTER

George B. Crouse, New York, N. Y., assignor, by mesne assignments, to Byrnes, Townsend & Potter, Washington, D. C., a firm consisting of Charles H. Potter, James F. Pierce and Richard L. Scheffler

Application January 27, 1928, Serial No. 249,917 Renewed November 7, 1932

12 Claims. (Cl. 178—44)

7. In apparatus for energizing an audion circuit from a source of rectified current, a series impedance, a circuit shunted across the supply line at the audion circuit side of said impedance, said circuit being resonant at substantially the frequency of the most disturbing alternating component present in the rectified current, and a high series inductance between said shunt circuit and the audion circuit.



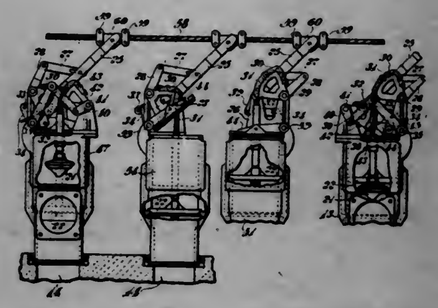
1,920,949

COKE OVEN APPARATUS

Lorenz S. Herrmann, Jr., Mount Lebanon Township, Allegheny County, Pa., assignor to The Koppers Company of Delaware, a Corporation of Delaware

Application January 28, 1930. Serial No. 423,974

11 Claims. (Cl. 137—144)



1. A valve mechanism for coke ovens comprising two passageways for fuel gas and air respectively, a valve for each passageway, an oscillatable lever, a shaft oscillatable with said lever and means for selectively connecting said shaft to the one or the other of said valves.

8. A valve mechanism comprising a plurality of each of fuel gas valves, air valves and waste gas valves, certain of each of which valves are open while the other valves are closed, means for controlling said valves to reverse their positions comprising a plurality of levers occupying similar positions and each lever being connected to a plurality of valves, link-and-lever mechanisms for connecting said levers to said valves and a single member for actuating all of said levers.

1,920,950

BRACKET FOR BELT PULLEYS

Alwin Page, Jr., Bellevue, Pa., assignor to The Koppers Company of Delaware, a Corporation of Delaware

Application March 1, 1930. Serial No. 432,324

3 Claims. (Cl. 308—20)

3. A bracket for supporting belt pulleys comprising a standard having recesses extending at an angle to each other and adapted to receive ends of shafts extending at right angles to the respective recesses, each of said recesses having a

relatively restricted outer portion and a relatively enlarged portion for coacting with corresponding portions of the shafts to be received to restrain certain movements of the latter.



1,920,951

GAS MANUFACTURE

Charles J. Ramsburg, Edgeworth, Pa., assignor to The Koppers Company of Delaware, a Corporation of Delaware

No Drawing. Application September 27, 1928 Serial No. 308,870

2 Claims. (Cl. 202—33)

1. The process of producing coke-oven gas of substantially normal B. t. u. value, which comprises adding approximately one percent by weight of gas oil to coal to be coked, coking said coal and then removing light oils from the resulting gas.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office

Vol. 433—No. 2 TUESDAY, AUGUST 8, 1933 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual index, $12.25; single numbers, 25 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
Issue of August 8, 1933	221
Trade-Marks Canceled	221
Adjudicated Patents	221
Notice of Cancellation	221
Changes in Classification	221
Applications Under Examination	222
Decisions of the U. S. Courts—	
In re Jacobi	223
In re Wagenhorst	223
Patent Suits	229
Disclaimers	230
Trade-Marks Published (155 Applications)	231
Trade-Mark Registrations Granted	253
Trade-Mark Registrations Renewed	259
Labels	261
Prints	262
Reissues	263
Designs	264
Patents Granted	272

August 8, 1933

Trade-Marks	155	No. 305,143 to No.	305,295,	inclusive.
T. M. Renewals	70			
Labels	33	No. 42,466 to No.	42,527,	inclusive.
Prints	3	No. 14,294 to No.	14,296,	inclusive.
Reissues	4	No. 18,912 to No.	18,915,	inclusive.
Designs	26	No. 90,432 to No.	90,457,	inclusive.
Patents	1069	No. 1,920,952 to No.	1,922,020,	inclusive.
Total	1,360			

Trade-Marks Canceled

144,064. Oiled cloth. Stephens & Wilkes, Inc., New York, N. Y. Registered June 21, 1921. Canceled July 15, 1933.

182,218. Glass containers. Evans Self Sealing Can Company, Inc., Tacoma, Wash. Registered April 1, 1924. Canceled July 15, 1933.

188,750. Medicine. Frank F. Witte, doing business as The Oriental & Occidental Medicine Co., Elliott Station, Detroit, Mich. Registered September 2, 1924. Canceled July 15, 1933.

190,260. Medicine. F. F. Witte, doing business as Red Seal Laboratories, Detroit, Mich. Registered October 7, 1924. Canceled July 15, 1933.

196,305. Cream meal. McDaniel Milling Company, Carthage, Mo. Registered March 17, 1925. Canceled July 15, 1933.

225,083. Fresh citrous fruits. W. H. Jameson, Corona, Calif. Registered March 8, 1927. Canceled July 15, 1933.

275,411. Shaving cream. Pro-Products Co., New York, N. Y. Registered September 23, 1930. Canceled July 15, 1933.

289,028. Wax polishing compound. Diamond Surfacing Products Co., Rhode Hall, Jamesburg, N. J. Registered November 17, 1931. Canceled July 15, 1933.

Adjudicated Patents

(D. C. N. Y.) Root patent, No. 1,821,150, for controlling valve for vacuum-operated power means, claims 1, 2, 3, and 4 *Held* valid and infringed. *Bragg-Kliesrath Corporation* v. *Walter S. Vogel & Co.*, 3 F. Supp. 518.

(C. C. A. Mich.) Rubsam patent, No. 1,396,362, for vehicle wheel, claims 4–6 *Held* invalid. *General Motors Corporation* v. *Rubsam Corporation*, 65 F.(2d) 217.

(C. C. A. Mich.) Rubsam patent, No. 1,576,225, for vehicle wheel, claims 7, 8, and 11 *Held* invalid. *Id.*

(C. C. A. Mich.) Rubsam patent, No. 1,576,226, for vehicle wheel, claim 1 *Held* invalid. *Id.*

Notice of Cancellation

U. S. PATENT OFFICE, *Washington, July 19, 1933.*

Louis M. Myers, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of the Hanson Scale Company, 523–531 North Ada Street, Chicago, Illinois, to effect the cancellation of the trade-mark registration of Louis M. Myers, Consumers Building, Chicago, Illinois, No. 119,556, dated November 27, 1917, and the notice of such proceeding sent by registered mail to the said Myers at the said address having been returned by the post-office as undeliverable, notice is hereby given that unless said Myers, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Changes in Classification

Order No. 3,245, July 19, 1933, directs:

In class 47, Plant Husbandry (Division 1), establish the following subclasses and definitions:

59 Plants.
60 Flowers.
61 Roses.
62 Fruits.

59. PLANTS. This subclass includes all patents on plants except those in the subclasses indented hereunder.

60. PLANTS, FLOWERS. Patents on flowers.

61. PLANTS, FLOWERS, ROSES. Patents on roses.

62. PLANTS, FRUITS. Patents on fruits.

The patents contained in these subclasses have been taken from class 47, subclass 1, Miscellaneous.

Condition of Applications Under Examination at Close of Business July 22, 1933

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 40,977; Trade-Mark Division, 901. Oldest new case, Mar. 18, 1933; oldest amended, Mar. 16, 1933.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application awaiting office action: New	Oldest new application awaiting office action: Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Mar. 22	Mar. 22	623
6708	2. HERRMANN, D. (Act.), Fishing and Trapping; Dairy; Animal Husbandry; Presses, Tobacco; Velocipedes; Butchering.	Mar. 24	Mar. 25	860
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Mar. 23	Mar. 23	602
7083	4. DONNELLY, A. E. (Act.), Conveyers; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds.	Mar. 23	Mar. 24	584
3628	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound-Recording; Knotters; Buckles, Buttons, Etc.	Apr. 22	Apr. 24	494
4806C	6. LEWERS, A. M., Carbon Chemistry	Apr. 8	Apr. 10	1,102
5725	7. JARBOE, C. G., Optics; Photography	Apr. 4	Apr. 4	1,083
7514	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	May 16	May 15	520
4624	9. ADAMS, R. E., Pumps: Fluid and Fluid-Current Motors	Apr. 26	Apr. 27	891
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Apr. 22	Apr. 22	517
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Mailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Mar. 23	Mar. 23	708
7701	12. HENRY, C. O., Machine Elements; Cylinders and Pistons; Mechanical Starters; Stop Mechanisms.	Apr. 10	Apr. 10	617
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Apr. 17	Apr. 17	659
5097	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	May 1	May 3	487
4897	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Apr. 5	Apr. 5	1,212
5612	16. SPENCER, C. J., Telegraphy; Telephony	Apr. 22	Apr. 22	600
5701	17. ARMSTRONG H. (Act.), Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Mar. 23	Mar. 23	1,089
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	May 23	May 24	307
4096	19. KENNEDY, A. B., Furnaces and Stoves; Fuel-Burners	Mar. 24	Mar. 24	1,082
6613	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	June 1	June 3	205
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Mar. 23	Mar. 23	865
5724	22. RINGLE, D. (Act.), Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion; Boating, Implements.	Mar. 28	Mar. 28	1,029
7802	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Mar. 23	Mar. 23	884
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	May 4	May 8	485
5709	25. BLAKELY, C. F., Agitating; Classifying Solids; Centrifugal-Bowl Separators; Mills; Thrashing; Vegetable and Meat Cutters and Comminutors.	Mar. 22	Mar. 25	1,122
5803	26. ADAMS, W. M., Electricity, Generation; Motive Power	May 3	May 3	472
5708	27. CLARK, W. N. (Act.), Brushing, Scrubbing, and Cleaning; Washing Apparatus	Apr. 22	Apr. 24	504
4628	28. BENSON, A. R., Internal-Combustion Engines	Mar. 23	Mar. 22	802
5052	29. SHKLARIN, J. B. (Act.), Woodworking; Tools; Compound Tools; Furniture; Metal Working	Apr. 28	May 2	326
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	Apr. 22	Apr. 22	699
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Mar. 22	Mar. 26	1,220
4086	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Apr. 27	Apr. 25	497
6098	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roofs; Wooden Buildings.	Mar. 24	Mar. 23	1,172
6625	34. SAPERSTEIN, S. (Act.), Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders; Fluid Pressure Brakes.	Mar. 15	Mar. 16	1,020
3600	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Filling and Closing Portable Receptacles.	Mar. 24	Mar. 27	789
7624	36. McFAYDEN, A. D. (Act.), Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Mar. 22	Mar. 22	1,335
5889	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 22	Apr. 22	598
7510	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells; Hydraulic Cement and Lime; Roads and Pavements.	Mar. 24	Mar. 24	764
4874	39. WHITNEY, F. J. (Act.), Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Apr. 6	Apr. 6	826
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Apr. 5	Apr. 5	1,202
6082	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices; Typewriting Machines.	Apr. 8	Mar. 29	605
5882	42. CUTTING, H. O., Electric Signaling	Mar. 22	Mar. 22	933
4886B	43. KLINGE, E. F., Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Apr. 3	Apr. 3	903
4087B	44. SHAFFER, C. H., Refrigeration; Dispensing Beverages	Mar. 22	Mar. 23	831
7097	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	May 22	May 24	355
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems	Apr. 11	Apr. 12	571
7600	47. BARKER, H., Clutches; Brakes; Motors	Apr. 7	Apr. 8	981
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Mar. 31	Mar. 30	663
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers	Mar. 22	Mar. 22	876
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating Processes; Carbohydrates and Condensation Products.	Mar. 22	Mar. 22	979
5628	51. BACKUS, C. D., Radiant Energy	Apr. 23	Apr. 23	812
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Mains and Pipes.	Apr. 20	May 19	507
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	May 18	May 17	496
5874	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Mar. 24	Mar. 24	862
6887	55. BOWEN, S. T.—Bread, Pastry, and Confection Making; Cutlery	Apr. 22	Apr. 24	365
	55. BOWEN, S. T.—Designs	June 16	June 24	261
4725	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Mar. 23	Mar. 24	881
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	May 3	Apr. 22	421
5605	58. DOWELL, E. F., Abrading	May 4	May 4	355
4709	59. RICHARD, V. I., Chemistry; Fertilizers	Apr. 15	Apr. 15	710
5806	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Mar. 22	Mar. 22	1,008
6724	61. PARKS, G. E., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus.	Mar. 24	Mar. 22	605
7525	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles; Cloth, Leather, and Rubber Receptacles.	Apr. 8	Apr. 8	1,321
4888	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Mar. 24	Mar. 24	1,130
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel; Alcohol.	Apr. 6	Apr. 6	1,101
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Mar. 24	Mar. 24	1,054
2099B	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND.—Trade-Marks	June 22	July 10	799
	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND.—Labels and Prints	July 1	July 8	102

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE JACOBI

No. 3,224. Decided May 1, 1933

PATENTABILITY—RIGHT TO MAKE THE CLAIM.

A claim for a lock copied from a patent *Held* properly refused to the applicant since that claim includes limitations not disclosed in the application.

Appeal from the Patent Office. Affirmed.

Mr. Ira Milton Jones for Jacobi.

Mr. T. A. Hostetler for the Commissioner of Patents.

GRAHAM, *P. J.:*

The appellant has filed application in the United States Patent Office for a patent on alleged improvements in locks. A number of claims were allowed, but claim 30, which was copied from claim 9 of the patent to Shinn, No. 1,761,092, dated June 3, 1930, now reissue No. 17,936, was rejected by both the Examiner and the Board of Appeals upon the ground that appellant could not properly make said claim. The claim is as follows:

30. In a lock the combination of a casing adapted to be secured in an element, a plug rotatable in and insertable endwise into the casing, key-operable tumblers for locking the plug in the casing, said plug having a groove adjacent its inner end, a holding device in the groove and adapted to extend into engagement with the casing to secure the plug against withdrawal from the casing, and means to permit a releasing device to pass from the front end of the lock to the rear or inner end for the purpose of releasing the holding device.

The lock in question is a modification of the type in which a rotary plug is manipulated by a key, and which plug has a means upon the inner end thereof by which a lock bolt is placed in such position as to secure the door, or other member in which the lock is mounted, against opening. The appellant states, as one of the objects of his invention, the following:

Another object of this invention resides in the provision of a lock device of the character described in which the means for retaining the lock cylinder against retraction is readily movable to an inactive position to permit the removal of the lock cylinder, by the insertion of a slug or extension member ahead of the key.

The issue in the case, as we see it, is whether the following language in the rejected claim reads upon appellant's disclosure:

said plug having a groove adjacent its inner end, a holding device *in the groove and adapted to extend into engagement with the casing.* * * * (Italics ours.)

The appellant claims it does so read, while the Solicitor for the Patent Office contends that such is not the case.

The patent to Shinn shows a retaining device which is composed of a groove in the inner end of the plug, into which is fitted a crescent-shaped piece of stamped plate metal. This crescent-shaped metal element is held permanently within said slot at all times, but is ordinarily elevated above and away from immediate contact with the slot at the central portion of the crescent, by a central stem and spiral spring, fitted into a recess in the plug. The plug can be removed from the casing by the insertion of a tool through an opening provided for that purpose through the plug and casing, and by means of which tool the crescent-shaped element may be depressed by the compression of the spiral spring. In this manner the plug may be withdrawn from the casing.

The appellant's device works in another way. His retaining device is a crescent-shaped piece of spring steel, mounted within the casing and having an inwardly directed bead which projects through an opening in the casing and into a groove on the inner end of the plug member. The plug member is withdrawn from the lock by means of the insertion of a small slug into the key slot ahead of the key, and which slug raises the bead on the retaining device, so that the plug may be withdrawn. It will be noted, however, that when the plug is withdrawn, the retaining device remains within the casing, whereas in Shinn it remains with the plug.

In our opinion, when rejected claim 30 recites "a holding device in the groove," the meaning plainly intended is that the retaining device shall be mounted in the groove and remain there, as is the case in the Shinn patent from which said claim was copied. Therefore, the Board of Appeals was not in error in holding that this claim did not read upon the appellant's disclosure.

The appellant contends that the rejected claim should be allowed because the device therein described is the equivalent of the device shown by Shinn and set out in the rejected claim. It does not appear that this point was anywhere contended for before, or decided by, either of the Patent Office tribunals. It is not specifically set forth in the reasons for appeal, and apparently is argued for the first time in this court. In view of this, this point need not further be considered. However, were the question properly raised, it would not seem to be applicable. The rejected claim contains certain clearly expressed limitations. These limitations may not be disregarded. If appellant's rejected claim does not read upon his disclosure, including such limitations, he may not have his claim allowed, even for purposes of interference. *In re Fischer*, 19 C. C. P. A. (Patents) 1231, 58 F.(2d) 1058.

The decision of the Board of Appeals is affirmed. Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE WAGENHORST

No. 3,059. Decided April 24, 1933

1. APPEALS—ASSIGNMENTS OF ERROR—WHAT MAY BE CONSIDERED THEREUNDER.

"It therefore follows that where, as here, the Board of Appeals has affirmed the decision of the Examiner in rejecting the claims of appellant on certain grounds and upon certain named references, which references are also cited by said Board in its decision, the affirmance should be held to have the legal effect of a rejection upon the grounds and references cited by the Examiner, and not expressly reversed by the Board."

2. PATENTABILITY—WHEELS.

Certain claims for a wheel *Held* patentable over the prior art.

APPEAL from the Patent Office. Modified.

LENROOT, *J.*, dissenting.

Messrs. Church & Church, Mr. Melville Church, and *Mr. Clarence B. Des Jardine* for Wagenhorst.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GRAHAM, *P. J.*:

The appellant filed his application in the United States Patent Office on April 2, 1927, for a patent on improvements in automobile wheels. This application was stated to be a division of appellant's pending application, Serial No. 41,835, filed July 6, 1925. Appellant claims the latter date as his effective filing date as regards this divisional application.

In the letter of the Examiner of May 23, 1928, Putnam, No. 1,612,050, of December 28, 1926, was cited as a reference. Thereafter, appellant filed an affidavit under rule 75 of the Patent Office, which affidavit was intended to eliminate further reference to Putnam by that Office. Attached to this affidavit were a number of sketches, bearing date from February 14, 1924, to February 29, 1924, and which it is said in the affidavit were delivered by appellant to his attorney and to a draftsman for the preparation of an application, Serial No. 726,529, which eventuated in a patent duly issued to appellant on May 10, 1927, No. 1,628,626. This application was filed July 17, 1924.

Also attached to the affidavit were two drawings, named, respectively, Exhibit 4 and Exhibit 5, and as to which the affidavit states the following:

> * * * that on July 16, 1924, he made sketches fully disclosing the invention set forth in said divisional application, Serial No. 180,479, and disclosed and explained said sketches on that date to C. B. Des Jardins, of the firm of Church and Church, his attorneys in that case, and that photostat copies of said sketches are attached hereto, marked Exhibit 4 and Exhibit 5; that he does not know and does not believe that the invention has been in public use or on sale in this country or patented or described in a printed publication in this or any foreign country for more than two years prior to the date of filing of his said application, Serial No. 41,835, of which the present application is a division, and that he has never abandoned the invention.

The said drawings each bear date of July 16, 1924.

The subject matter of appellant's present application consists of a metal automobile wheel in which the brakedrum is utilized as a part of the body of the wheel, the demountable rim being detachably connected to such brakedrum by relatively short securing members or lugs, by means of bolts. The particular elements here involved lie in the rearward dishing of the central part of the brakedrum in order to strengthen said brakedrum against load strain, torque, etc., imposed upon it. There is also the further feature of a bolted connection between the spoke members and the brakedrum, in which the central portion of said spokes and the brakedrum are united in spaced relation to each other, so that the tension caused by such spaced relation will tend to prevent the nuts from becoming loosened upon said connecting bolts.

The rejected claims are as follows:

1. A wheel comprising a brakedrum having the central portion of its side wall rearwardly dished, a tire-carrying rim, and means for detachably connecting said rim to said brakedrum, whereby load, sidethrust, and torque are transmitted through the drum.

4. A wheel comprising a brakedrum having a cylindrical braking flange, a vertical portion extending inwardly from the front edge of said flange, and a central portion dished rearwardly from the inner edge of said vertical portion, a tire-carrying rim, a plurality of securing members rigidly connected to said rim, and means for detachably connecting the inner portions of said members to the vertical portion of the brakedrum.

6. A wheel comprising a brakedrum, a tire-carrying rim, a plurality of sheet metal securing members rigidly connected to the rim and each having an inner portion seating on the periphery of the brakedrum, bolts carried by the drum and extending through the inner portions of the securing members, and nuts screwed on said bolts and clamping said inner portions against the drum.

7. A wheel comprising a brakedrum, having a cylindrical braking flange, a vertical portion extending inwardly from the front edge of said flange, and a rearwardly dished central portion extending from the inner edge of said vertical portion, a tire-carrying rim, a plurality of sheet metal securing members rigidly connected to the rim and each having an inner portion seating on the periphery of the vertical portion of the brakedrum and engaging the rearwardly dished portion near its outer edge, bolts carried by the drum and extending through the inner portions of the securing members, and nuts screwed on said bolts and clamping said inner portions against the drum.

8. A wheel comprising a brakedrum, a tire-carrying rim, a plurality of pressed metal securing members rigidly connected to the rim, the inner portion of each member engaging the brakedrum at radially spaced points and being spaced from the drum between such points, bolts extending through the drum and the inner portions of said members at the parts of the latter which are spaced from the drum, and nuts screwed on the bolts and engaging said securing members.

10. A wheel comprising a brakedrum, a tire-carrying rim, a plurality of pressed metal securing members rigidly connected to the rim, the inner portion of each member engaging the brakedrum at radially spaced points and being spaced from the drum between such points, bolts extending through the drum and the inner portions of said members at the parts of the latter which are spaced from the drum, and nuts screwed on the bolts and having convex faces engaging concave recesses in said securing members.

The Examiner held that the affidavit was insufficient to meet the conditions of said rule 75, and that, therefore, the Putnam reference was still available. In coming to this conclusion, the Examiner called attention to the fact that the part of said affidavit which referred to certain sketches bearing date in February, 1924, was applicable only, by the terms of said affidavit, to the showings of the Patent No. 1,628,626, of May 10, 1927, and that that portion of the affidavit referring to appellant's present application bore date as of July 16, 1924, a date approximately three months after Putnam's application was filed on April 7, 1924.

These circumstances, therefore, were taken by the Examiner as not a compliance with the provisions of said rule 75. The relevant portion of said rule 75 is as follows:

> 75. When an original or reissue application is rejected on reference to an expired or unexpired domestic patent which substantially shows or describes but does not claim the rejected invention, or on reference to a foreign patent or to a printed publication, and the applicant shall make oath to facts showing a completion of the invention in this country before the filing of the application on which the domestic patent issued, * * *.

The Examiner thereupon rejected the claims in issue on certain references cited.

The Board of Appeals coincided with the Examiner as to his construction of said rule 75, and, after considering the matter upon the references cited, rejected all the claims here in issue, and from that decision appellant has appealed.

The following references were cited by the Board of Appeals in the following language:

The references relied upon are Putnam, (Reissue) 15,358, May 16, 1922; Klocke, 1,394,739, October 25, 1921; Trepier, 1,405,358, January 31, 1923; Siddeley, 1,439,269, December 19, 1922; Forsyth, 1,470,222, October 9, 1923; Reid, 1,471,356, October 23, 1923; Putnam, 1,612,050, December 28, 1926; Trout et al., 1,627,717, May 10, 1927; Wagenhorst, 1,628,626, May 10, 1927; Wagenhorst, 1,679,453, August 7, 1928.

In our opinion, the tribunals of the Patent Office were correct in their conclusions that the affidavit of appellant was not sufficient to eliminate the reference Putnam. It is immaterial in this case whether appellant completed the invention embodied in his patent, No. 1,628,626, prior to Putnam's invention of the same, and this is as far as appellant's showing as to his proceedings in February, 1924, may be held to extend. Appellant must claim that the alleged invention disclosed in his present application has inventive features over his patent, otherwise he has nothing upon which a new patent may issue. If, therefore, it is claimed that the present application is for a new invention, he must show by his affidavit that this invention was completed before Putnam's filing date. As has been shown, his affidavit discloses a date three months subsequent thereto, and thus the affidavit avails him nothing, and does not bring him within rule 75. If it may be said that by his affidavit he has shown that he completed his invention on July 16, 1924, and as to this we express no opinion, this date is, as we have said, subsequent to the Putnam filing date.

The Putnam patent is, therefore, available as a reference, and may be used, so far as it is applicable herein.

The Examiner also rejected appellant's "general combination" claims on the ground of double patenting, in view of his Patent 1,628,626. The Board of Appeals did not specifically enumerate this ground of rejection, a general affirmance being made of the Examiner's decision.

As to this point, it is argued by the appellant that this ground of rejection is not now before the court, inasmuch as the Board did not refer to it. On the other hand, the Solicitor for the Patent Office argues that a general affirmance by the Board of the decision of the Examiner is equivalent to an affirmance of every reason for rejection given by the Examiner; that if some specific reason for rejection is given by the Examiner, which does not meet with the approval of the Board, it is the duty of the Board to so hold in its decision.

Section 482 Revised Statutes, 44 statute 1335, so far as relevant, provides:

> * * * The Commissioner of Patents, the First Assistant Commissioner, the Assistant Commissioner, and the Examiners in Chief shall constitute a Board of Appeals, whose duty it shall be, on written petition of the appellant, to review and determine upon the validity of the adverse decisions of examiners upon applications for patents and for reissues of patents and in interference cases.

It being made the statutory duty of the Board of Appeals "to review and determine upon the validity of the adverse decisions of Examiners," it would seem that this duty is not fully performed without a review of *all* adverse decisions by the Examiner. A general affirmance must be taken as an affirmance of all such adverse decisions, even though not specifically referred to. This, we think, has been the practice of the Patent Office.

[1] It therefore follows that where, as here, the Board of Appeals has affirmed the decision of the Examiner in rejecting the claims of appellant on certain grounds and upon certain named references, which references are also cited by said Board in its decision, the affirmance should be held to have the legal effect of a rejection upon the grounds and references cited by the Examiner, and not expressly reversed by the Board.

The same thought must have been in the minds of the attorneys for appellant, for the first assignment of error to this court is as follows:

> 1. The Board of Appeals erred in affirming the reason of the Primary Examiner finally rejecting claims 1, 4, 6, 7, 8 and 10 of the above entitled application.

This, in the opinion of the court, is a sufficient statement of the reasons of appeal to bring before this court for consideration the various grounds of rejection of appellant's claims urged by the Examiner and affirmed by the Board of Appeals, and raises directly the correctness of each such adverse ruling. Such statement of reasons must be construed as having read thereinto such various grounds of rejection. It is a sufficient statement of appellant's "reasons of appeal, specifically set forth in writing," as provided in section 4912 Revised Statutes.

This court is not disposed to apply, in these cases, the rigid and inflexible rules as to assignments of error sometimes applied by the courts in other proceedings. The statute should be liberally and reasonably construed and its purpose to give to parties appealing to this court from Patent Office decisions a speedy and effective revision thereof, should not be defeated by a highly technical construction of the written "reasons of appeal." If the court and the Patent Office are advised, by these written reasons, of the questions at issue, that is sufficient to enable the court to "revise the decision appealed from in a summary way." Section 4914 Revised Statutes.

The matter of the statement of such "reasons of appeal" has been referred to by this court in several cases. In *In re Schneider*, 17 C. C. P. A. (Patents) 952, 39 F.(2d) 278, 396 O. G. 348, the applicant sought to make an amendment and to add a new claim on the date appeal was taken to the Board of Appeals which amendment was denied by the Examiner, and the Board refused to consider the amendments and additional claims. There was no assignment of error in this court as to said ruling by the Board, and we expressed the opinion that we might, therefore, disregard the point. However, no such question being raised by counsel, we considered it.

In *Mas* v. *Root*, 19 C. C. P. A. (Patents) 819, 54 F.(2d) 435, 416 O. G. 804, we said that we did not feel called upon to determine whether the party Mas reduced his invention otherwise than by filing his application, as the "question was not specifically set out in his reasons of appeal." Furthermore, it ap-

pears from the record that Mas made no such claim in this court.

In *Southgate* v. *Greene*, 19 C. C. P. A. (Patents) 1129, 57 F.(2d) 374, 420 O. G. 811, a patent interference proceeding, the party Greene proffered a part of one of his applications upon which he claimed priority. In the appellant's argument in this court, the point was raised that appellant had the right to inspect the entire application. We stated that we would not consider the point, as it was not assigned as error in the reasons for appeal.

In *Derby Oil Co.* v. *White Star Refining Co.*, 20 C. C. P. A. (Patents) ——, 62 F.(2d) 984, 429 O. G. 75, a cancellation proceeding, we refused to consider two preliminary questions, stating that no assignments of error had been made upon the same. The first question was the claim of continuity of title; the second, an objection to the introduction of certain photostats in evidence. The record shows that these matters were not raised before nor passed upon by, either of the Patent Office tribunals, were not assigned for error here, and were raised for the first time by argument, in this court. In such case they did not constitute averments of reasons for appeal, and we so stated.

The reason for appeal above quoted must be understood as raising for our consideration each ground assigned by the Examiner and affirmed by the Board. We find nothing in the cases above commented upon which is out of harmony with this view. There seems to be no real necessity, in order to raise the question here, that each ground of refusal given by the Examiner and affirmed by the Board, should be set out, seriatim.

Such expressions as appear in the opinions of this court with reference to the office of an assignment of error, in the exercise of the *customs* jurisdiction of the court, are not thought to be applicable to patent appeals, such as that now before us, the statutory authority being vastly different in the two jurisdictions.

The rejected claims will be considered in view of these conclusions. Claims 1, 4, and 7 were said by the Board to distinguish from the reference Putnam only in the statement that the side wall of the brake-drum is dished rearwardly, and this feature, it is said, is met by the references Klock and Trepier. We are in agreement with this conclusion. Trepier, it is argued by appellant, does not show—

> means * * * whereby load, side-thrust and torque are transmitted through the drum,

because he shows a member, to the exterior of the drum, extending from the connecting member directly to the hub. This is true, but, while this may supplement the sidewall of the drum, the connecting member, nevertheless, does transmit load, sidethrust, and torque through the drum.

Claim 6 was properly rejected on reference to Putnam, Trepier, and Reid.

[2] The case is different, however, as to the rejection of claims 8 and 10 on reference to Putnam and Trout. These claims, as will be observed, are based upon a structural feature which consists in forming that portion of each connector, where it is bolted to the brakedrum, in such a manner that the central portion thereof is raised and does not come in contact with the side wall of the brakedrum. As stated in claim 10, the connector is there "spaced from the drum," and the connecting bolts extend through the connectors and drum at points "which are spaced from the drum." This feature gives the highly useful result of retaining the nuts upon said connecting bolts in much the same manner as if they were retained by lock washers.

This feature is not claimed to be shown by Putnam. Trout is relied upon. Trout shows a disk or connecting member, made of sections welded together. Each of these sections has a curved, hollow rib along its inner margin, and is provided with an inner, curved, lateral flange which bears upon a flange of the hub when the wheel is assembled. A depression or concave recess is pressed in the hollow rib of each section of the disk, all of which are used to connect hub and disk by means of studs and ball nuts.

As disclosed by Trout's drawings, the circular inner margins of these concave recesses, when the wheel is assembled, rest upon and contact with the flanges of the hub. The ball nuts, as recited in Trout's specification,

> are then screwed upon the studs until the convex surfaces of the nuts seat in the depression.

The Solicitor for the Patent Office, in describing this feature, says:

> The rim is supported by several sections 21, each having at its inner end a curved hollow rib 22 which makes a two-point contact with the support (hub flange 11) with a securing means located radially between the two spaced contact points.

Trout nowhere discloses or teaches any such structure as appellant has disclosed and claimed in his connection of drum and connectors, in spaced relation to each other. He makes no claim covering this feature. Appellant does show and claim it, and, insofar as is apparent, he has thereby contributed a useful element to this type of wheel structure. The Solicitor states:

> It may further be conceded that if the points of difference enumerated involve an inventive advance over the claims of appellant's patent (or what amounts to the same thing, over the claims or showing of Putnam as to the "general combination" mentioned by the Examiner) then the appealed claims should be allowed.

We are of opinion that the feature just discussed does constitute an inventive advance in the art, and hence are of opinion that claims 8 and 10 of appellant's application should be allowed, insofar as this ground of rejection is concerned.

It will be observed that no claim is made by the Solicitor that the elements of the claims do not sufficiently coact with each other to constitute a proper combination claim. No such suggestion was made by either tribunal in the Patent Office or here. Hence this point is not involved in the present appeal. *In re Tucker and Reeves*, 19 C. C. P. A. (Patents) 810, 54 F.(2d) 815, 416 O. G. 286.

As to double patenting, the Examiner has stated:

> The applicant has carefully pointed out that his patent No. 1,628,626, claims the "general combination" as broadly as Putnam. See page 3, paragraph 2 of paper No. 10. Since this is true the claims are further rejectable on the grounds of double patenting in view of the references showing the specific features under the authority of ex parte Hammond and Hammond 1922 C. D. 15, and ex parte Chapman 1924 C. D. 143 wherein it was held that in considering double patenting it is proper to consider the prior art in connection with the subject matter claimed previously by the applicant.

Reference to this patent to Wagenhorst discloses that appellant therein claimed a general combination of a wheel comprising a rim, a series of connectors extending inwardly therefrom and attached to a brakedrum, which brakedrum became a part of the wheel structure. The patent, however, makes no disclosure of, or claim for, a combination having the particular construction called for by said claims 8 and 10, and hereinbefore referred to. Therefore, there cannot be said to be double patenting of the subject matter as set out in these two claims.

The decision of the Board of Appeals is affirmed as to its rejection of claims 1, 4, 6, and 7 and reversed as to claims 8 and 10.

Modified.

LENROOT, *J.*, (dissenting):

I am compelled to dissent from so much of the decision of the majority as reverses the decision of the Board of Appeals as to claims 8 and 10 of appellant's application. My grounds of dissent are three in number: (1) that the point upon which the decision of the Board is reversed with respect to said claims 8 and 10 is not raised in the reasons of appeal, is not raised in the brief of appellant, and, to my best recollection, was not even referred to by appellant's counsel in oral argument before us; (2) that the Board of Appeals was correct in holding that the element of the claims upon which the majority reverses the decision of the Board is disclosed by the reference Trout et al.; and (3), that said claims are not patentable combinations and the Board of Appeals committed no error in holding them to be unpatentable.

The only reason of appeal upon which the opinion of the majority might rest reads as follows:

> I. The Board of Appeals erred in affirming the reason of the Primary Examiner finally rejecting claims 1, 4, 6, 7, 8 and 10 of the above entitled application.

Inasmuch as the claims mentioned in said reason of appeal are all of the claims that were involved before the Board, and are all of the claims that are before us upon this appeal, it is my opinion that this reason of appeal fails to comply with section 4912, Revised Statutes, which requires an appellant to file in the Patent Office his reasons of appeal "specifically set forth in writing." By section 4914, Revised Statutes, it is provided that this court shall confine its revision "to the points set forth in the reasons of appeal." A reason of appeal such as that quoted above amounts to nothing more than a general reason of appeal stating that the Board of Appeals erred in its decision, in which form it would clearly be in violation of the statute. It seems very clear that Congress, in the enactment of sections 4912 and 4914, Revised Statutes, intended that no blanket reasons of appeal such as that above quoted should be regarded as effective to present any question to the court, but that each reason of appeal should be specifically set forth in writing for the purpose of informing the court and opposing counsel of the particular points relied upon by an appellant, and that the jurisdiction of this court as to reversal should be confined to the reasons of appeal specifically set forth.

Reasons of appeal are analogous to assignments of error in courts of general jurisdiction. In the case of *Phillips and Colby Construction Company* v. *Seymour*, 91 U. S. 646, the court in its decision said:

> The object of the rule requiring an assignment of errors is to enable the court and opposing counsel to see on what points the plaintiff's counsel intend to ask a reversal of the judgment, and to limit the discussion to those points. This practice of unlimited assignments is a perversion of the rule, defeating all its purposes, bewildering the counsel of the other side, and leaving the court to gather from a brief, often as prolix as the assignments of error, which of the latter are really relied on. * * *

While the court was there speaking of a multiplicity of assignments of error, the observations there made are even more pertinent with respect to a general assignment.

In the case of *Texas and Pacific Railway Company* v. *Archibald*, 170 U. S. 665, the court in its opinion stated:

> There are six assignments of error, the first of which may be at once dismissed from view, as it simply avers that the Court of Appeals erred in affirming the judgment of the trial court, without any specification of any particular error committed. * * *

This court in the following cases has refused to consider particular points raised before us upon the ground that such points had not been specifically set forth in writing in the reasons of appeal. *In re Schneider*, 17 C. C. P. A. (Patents) 952, 39 F.(2d) 278, 396 O. G. 348; *Mas.* v. *Root*, 19 C. C. P. A. (Patents) 819, 54 F.(2d) 435, 416 O. G. 804; *Southgate* v. *Greene*, 19 C. C. P. A. (Patents) 1129, 57 F.(2d) 374, 420 O. G. 811; *Derby Oil Co.* v. *White Star Refining Co.*, 20 C. C. P. A. (Patents) ——, 62 F.(2d) 984, 429 O. G. 75.

In *Southgate* v. *Green*, supra, this court said:

> Finally, appellant insists that he had a right to inspect the whole of Greene's 1926 application. If this were a matter in which we might take jurisdiction, as to which we express no opinion, it would not be possible for us to do so, as appellant has assigned no error in that respect in his reasons for appeal.

This court, in the exercise of its customs jurisdiction, in the case of *United States* v. *Brenner Co.*, 19 C. C. P. A. (Customs) 105, T. D. 45243, said:

> The office of an assignment of error is to enable the court and opposing counsel to see on what points the appellant's counsel intend to ask a reversal of the judgment and to limit the discussion to these points. * * *

The majority opinion makes a statement that is surprising to me. It is as follows:

> This court is not disposed to apply, in these cases, the rigid and inflexible rules as to assignments of error sometimes applied by the courts, in other proceedings.

Later in the opinion it is stated that—

> Such expressions as appear in the opinions of this court with reference to the office of an assignment of error, in the exercise of the *customs* jurisdiction of the court, are not thought to be applicable to patent appeals, such as that now before us, the statutory authority being vastly different in the two jurisdictions.

With reference to the language first quoted, I would observe that in courts of general jurisdiction assignments of error are usually governed by rules of court and not by statute, and such courts may, under their rules, exercise a discretion in considering plain errors appearing upon the record, though not

assigned. Such is the rule in the Supreme Court of the United States. *Mahler* v. *Eby*, 264 U. S. 32. This court, however, in our patent jurisdiction has no such power because the statute expressly prohibits our revising a decision of the Board of Appeals for a reason not specifically assigned.

Inasmuch as courts of general jurisdiction are not bound by an inflexible rule such as governs this court, therefore the cases in which such courts apply the rule for which I here contend are especially pertinent.

The quotation from the majority opinion with respect to cases arising under our customs jurisdiction is also surprising to me. There is a radical difference in the law governing our respective customs and patent jurisdictions. In our customs jurisdiction the statute provides that an application for review by this court of a decision of the United States Customs Court shall contain "a concise statement of errors of law and fact complained of," but there is nothing in the statute prohibiting this court from considering an error not assigned, while in our patent jurisdiction we are expressly prohibited from revising a decision of the Board of Appeals of the Patent Office upon a reason of appeal not specifically set forth in writing. Therefore our jurisdiction in patent appeals is more limited than is our jurisdiction in considering appeals from the Customs Court, and the cases in our customs jurisdiction applying the rule (where our jurisdiction does not prohibit our making exceptions to said rule) are especially pertinent.

In the consideration of patent appeals, we are by statute much more limited in considering errors than are courts of general jurisdiction in considering appeals before them, and much more limited than is this court in the exercise of our customs jurisdiction.

For these reasons I am utterly unable to understand upon what theory the court holds that we, in the exercise of our patent jurisdiction, may be more liberal in considering errors than courts of general jurisdiction or this court in the exercise of its customs jurisdiction.

It is my opinion that a general reference to reasons given by Patent Office tribunals is not a compliance with the statute, for it was never intended that the court should be compelled to examine and ascertain all of the reasons that may have been given by the Board of Appeals of the Patent Office for its action, but the reasons complained of must be specifically stated in the reasons of appeal. If such a reason of appeal as that above quoted shall be held to be sufficient to cause this court to reverse the Board, it seems to me that hereafter appellants to this court will content themselves with similar general reasons of appeal, without this court or opposing counsel having any real knowledge of what points actually are relied upon by appellant for reversal, and it will mean a very radical change in the practice that has been consistently followed for over half a century.

These observations are particularly pertinent with respect to the case at bar, for not only is the point upon which the majority reverses the decision of the Board not specifically pointed out in the reasons of appeal, but it is not even mentioned in appellant's brief. On the contrary, the brief sets out the reasons of appeal relied upon, and the assignment hereinbefore quoted is not one of those set out. Furthermore, under the heading "The Question to be Decided," the brief states:

> The issue presented by these reasons of appeal, for decision by this Court, is whether a rejection of the claims upon a patent issued on a copending application may be sustained, when such patent does not claim the rejected invention, and the applicant has made oath to facts showing that the invention, insofar as it is disclosed in the patent, was completed by him prior to the patentee's filing date.

Even if the reason of appeal might, by a most liberal construction, be deemed sufficient to raise the point upon which the majority reverses the Board, the foregoing quotation from appellant's brief clearly shows that appellant never contemplated raising such point. This is further shown by later portions of the brief in which it is argued that Putnam is not a proper reference, after which the following is found:

> • • • We submit, therefore, that it is most improper to build up on evidence of prior invention, by adding to it the showings of patents in the prior art. • • •

Here is a clear implication that appellant does not contend that the elements of the claims involved are not shown in the references, but that it was improper to combine them as was done by the Board.

Furthermore, appellant's brief states:

> • • • The rejection is based upon the theory that the Putnam patent establishes Putnam, *prima facie*, as the prior inventor of the general combination of a rim, hub, brake drum and spoke members rigidly connected to the rim and detachably connected to the brake drum. If Putnam is the prior inventor of this general combination, *the rejection may be well founded*. If, however, the applicant, and not Putnam, is the prior inventor of the general combination, the rejection must fail. • • • (Italics ours.)

Finally, under the heading "Conclusion," appellant's brief states:

> We maintain, therefore, that the Board of Appeals was in error in rejecting the six claims of this Wagenhorst application upon the Putnam patent. That patent could only have effect as evidence of prior invention by Putnam. Putnam did not claim the rejected invention and, therefore, an affidavit under rule 75 was permissible. Such affidavit was presented and established the completion of the rejected invention, insofar as disclosed by Putnam, prior to Putnam's filing date. In view of this affidavit, it is no longer possible to say that the Putnam patent is evidence of prior invention by Putnam over Wagenhorst. Therefore, the rejection must fall, and the Putnam patent should have been eliminated as a reference and the claims allowed.

Here again it is made clear that appellant does not rely upon the point upon which the majority bases its reversal of the Board with respect to said claims 8 and 10.

With respect to the oral argument before us, it is my recollection that the point upon which the majority reverses the Board was not even mentioned; certainly it was not argued.

It is my opinion that the court should not, as a matter of sound practice and policy, go out of its way to search for errors not pointed out either in the reasons of appeal or in the brief of counsel.

With regard to my second ground of dissent, it is my opinion that the Board of Appeals correctly held that the element upon which the majority reverses the Board is disclosed by the reference Trout. The pertinent language in claims 8 and 10 with reference to this element is as follows:

> • • • the inner portion of each member *engaging the brakedrum at radially spaced points and being spaced from the drum between such points*, bolts extending through the drum and the inner portions of said members *at the parts of the latter which are spaced from the drum*, and nuts screwed on the bolts. • • •. (Italics ours.)

The majority opinion holds that the reference Trout does not disclose—

> any such structure as appellant has disclosed and claimed in his connection of drum and connectors, in spaced relation to each other.

In my judgment the drawings of the Trout patent show two-point contact between the metal segments 21 and the hub flanges 11. This two-point contact results from the rib embodied in each of said segments at the point opposite said flanges. In this rib is a perforation through which the stud bolt passes, and this perforation is depressed to receive the convex surface of the ball nut 14. It is apparent that the periphery of this perforation does not lie in the same plane as the outside edges of the rib. Therefore, when the ball nut is tightened, there is the same condition of clearance between the segment and the hub flange at the point where the bolt passes as obtains in the disclosure of appellant, and will result in the same tension being exerted upon the nut to retan it in position after it is once tightened.

Appellant's counsel apparently had the same view with reference to this matter because, if he had entertained the view expressed in the majority opinion, he certainly would not have ignored it in his reasons of appeal, in his brief, and in his oral argument before us.

Furthermore, as hereinbefore observed, appellant's brief contains the following:

> • • • If Putnam is the prior inventor of this general combination, the rejection may be well founded. • • •

This statement is inconsistent with the thought that appellant ever contemplated the point upon which the reversal of the Board by the majority is based.

Finally, the majority opinion contains the following:

> • • • These claims, as will be observed, are based upon a structural feature which consists in forming that portion of each connector, where it is bolted to the brake-drum, in such a manner that the central portion thereof is raised and does not come in contact with the side wall of the brakedrum. As stated in claim 10, the connector is there "spaced from the drum," and the connecting bolts extend through the connectors and drum at points "which are spaced from the drum." This feature gives the highly useful result of retaining the nuts upon said connecting bolts in much the same manner as if they were retained by lock washers.

If an element of this kind makes patentable a combination which, without such element, would not be patentable, then it would seem that the placing of a simple lock washer upon each of the bolts for the purpose of permanently retaining the nuts in place would likewise make a combination patentable which otherwise would be unpatentable. I do not think that the majority would have reversed the Board on claims 8 and 10 if a simple lock washer had been described instead of the structure accomplishing the same purpose disclosed in the application of appellant, for in such case it would be clear that there was not such coaction between said lock washers and the other elements of the combination as to bring the claims within the rule of patentable combinations. Likewise I am of the opinion that there is no such coaction of the element of spaced relation of the connectors and drum with the other elements of the claims as to render the combination patentable.

In the case of *In re Germantown Trust Co.*, 19 C. C. P. A. (Patents) 1140, 57 F.(2d) 365, 421 O. G. 857, we held that:

> • • • A combination to be patentable as such must disclose a novelty of cooperation between its elements which produces a new result and amounts to invention, and the mere fact that some elements are themselves novel and possibly patentable as individual elements does not render the combination containing them patentable in the absence of such novel cooperative relation in the combination itself.

In my opinion the decision of the Board of Appeals should be affirmed as to all of the claims on appeal.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

1,032,110, C. J. Carlson, Window screen device, filed June 8, 1933, D. C. Mont. (Helena), Doc. 1606, *C. J. Carlson* v. *Watson Mfg. Co., Inc., et al.*

1,158,058, J. H. King, Centrifugal burner; 1,283,109, A. Doble, System of automatic regulation for steam driven automobiles; 1,334,560, L. L. Scott, Combustion system; 1,604,729; Re. 17,405, same, Oil burning system; 1,644,496, same, Oil burner; 1,879,008, A. B. Frenier, Temperature producing mechanism and controlling means therefor; 1,441,888, Scott & Staley, Combustion system; 1,579,497, L. I. Aldrich, Safety control mechanism for electrically controlled fuel burning devices; 1,583,564, same, Liquid fuel atomizer, D. C., E. D., Mich (Detroit), Doc. 5385, *Cleveland Trust Co.* v. *A. B. C. Oil Burner Sales Corp.* Dismissed without prejudice June 5, 1933.

1,283,109. (See 1,158,058.)

1,304,473, J. C. Glenser, Drill and tap driver; 1,863,107, same, Tool driver, filed may 31, 1933, D. C., E. D. Mich. (Detroit), Doc. 5961, *J. C. Glenser et al.* v. *A. R. Gross et al.*

1,312,009, H. C. Thrift, Pipe pulling device, D. C., E. D. Tex. (Beaumont), Doc. E 497, *Oil Equipment Sales Corp.* v. *W. J. Miller.* Consent decree for plaintiff June 3, 1933.

1,334,560. (See 1,158,058.)

1,334,560, L. L. Scott, Combustion system; 1,579,497, L. I. Aldrich, Safety control mechanism for electrically controlled fuel burning device, filed June 10, 1933, D. C., S. D. Iowa, C. Div., Doc. E 4520, *The Cleveland Trust Co.* v. *W. W. Stuart.*

1,372,680, C. E. Frost, Brush, filed June 9, 1933, D. C., N. D. Ohio, E. Div., Doc., E 4691, *The Osborn Mfg. Co.* v. *The Herold Mfg. Co.*

1,376,711, D. B. Levy, Pastry forming device, D. C., E. D. N. Y., Doc. E 6505, *S. & S. Cone Corp.* v. *A. Levy et al.* Decree for plaintiff (notice June 12, 1933).

1,379,008. (See 1,158,058.)

1,381,825, G. J. Meyer, Soaking and washing machine; 1,536,302, Meyer & Tischer, Expanding brush, D. C., N. D. Ohio, E. Div., Doc. 4583, *G. J. Meyer Mfg. Co. et al.* v. *Union Engineering Co. et al.* Dismissed without prejudice June 6, 1933.

1,441,888. (See 1,158,058.)

1,454,397, W. W. MacDonald, Hydraulic brake, D. C., N. D. Calif., S. Div., Doc. 19364–L, *W. W. MacDonald* v. *Wagner Electric Corp.* Dismissed without prejudice June 7, 1933.

1,467,831, W. S. Barnickel, Process for treating petroleum emulsions, filed June 14, 1933, D. C., N. D. Okla. (Tulsa), Doc. 876, *The Tretolite Co.* v. *Burke-Gries Oil Co.*

1,526,982, W. E. Hill, Stencil sheet, D. C., N. D. Ill. E. Div., Doc. 13280, *A. B. Dick Co.* v. *G. E. High*. Consent degree holding patent valid and infringed June 1, 1933. Doc. 13281, *A. B. Dick Co.* v. *The Pruitt Co. et al.* Decree as above May 25, 1933.

1,536,302. (See 1,881,825.)

1,552,826, P. J. Lunati, Lifting device for motor vehicle, filed June 14, 1933, D. C., S. D. N. Y., Doc. E 76/131, *Rotary Lift Co. et al.* v. *Wayne Co.*

1,579,497. (See 1,158,058 and 1,334,560.)

1,583,564. (See 1,158,058.) 1,605,931. (See 1,680,141.)

1,640,729. (See 1,158,058.) 1,644,496. (See 1,158,058.)

1,680,141, W. T. Emmes, Reversing and braking mechanism for machine tools; 1,605,931, same, Change speed mechanism for machine tools, filed June 14, 1933, D. C., S. D. Ohio, W. Div., Doc. E 858, *A. Emmes et al.* v. *The Boye & Emmes Machine Tool Co.*

1,699,076, Munn & Munn, Sausage casing and process of producing same; 1,837,280, B. J. Munn, same, filed June 9, 1933, D. C. Minn. (Minneapolis), Doc. E 2717, *B. J. Munn* v. *J. E. Decker & Sons.*

1,752,331, F. C. Fantz, Return bend, filed June 14, 1933, D. C., E. D. Ill. (E. St. Louis), Doc. 4612, *Stockham Pipe & Fittings Co. et al.* v. *Key Boiler Equipment Co., Inc.*

1,801,128, A. E. Waller, Finding for a clasp, D. C., S. D. N. Y., Doc. E 72/217, *A. E. Waller* v. *Apex Die & Tool Corp.* Dismissed (notice June 9, 1933).

1,830,768, I. M. Rod, Art of making garments, filed June 12, 1933, D. C., E. D. Pa., Doc. 7741, *Rokap Corp.* v. *The Navytone Co. et al.* Same, filed June 15, 1933, D. C. Mass., Doc. E 3889, *Rokap Corp.* v. *Haymarket Clothing Co.* Doc. E 3890, *Rokap Corp.* v. *Anderson-Kondasian Co. Inc.*

1,837,280. (See 1,699,076.) 1,863,107. (See 1,804,473.)

1,889,537, E. Cairns, Helmet, filed June 15, 1933, D. C., E. D. N. Y., Doc. E 6991, *E. Cairns et al.* v. *S. L. Guidice et al.*

1,909,346, H. F. Gruman, Combined seaming and pinking machine, filed June 12, 1933, D. C., E. D. N. Y., Doc. E 6989, *Lewis Invisible Stitch Machine Co.* v. *M. Popper et al.*

Re. 14,667, F. D. Winkley, Lubricating system; Re. 15,503, E. Piquerez, Lubricator, filed June 12, 1933, D. C., S. D. N. Y., Doc. E 76/125, *Alemite Corp.* v. *Lubrication Systems, Inc.*

Re. 15,503. (See Re. 14,667.)

Re. 17,405. (See 1,158,058.)

Re. 18,151, H. P. Elliott, Stencil machine and stencil therefor, D. C., S. D. N. Y., Doc. E 76/5, *Elliott Addressing Machine Co.* v. *M. J. Delehanty* (Delehanty Institute). Consent order of discontinuance (notice June 16, 1933.)

Des. 90,006, P. Reiman, Textile fabric, D. C., S. D. N. Y., Doc. E 76/84, *M. Ottarsh et al.* (*J. Ottarsh*) v. *I. Edison et al.* Consent decree for plaintiff (notice June 9, 1933).

Disclaimers

1,785,274.—*Nathaniel E. Loomis, Albert H. Tomlinson,* and *Frank A. Howard,* Elizabeth, N. J. ART OF PYROLYSIS. Patent dated December 16, 1930. Disclaimer filed July 15, 1933, by the assignee, *Standard Oil Development Company.*

Hereby enters this disclaimer, namely, to any construction of claim 7 of said patent except that which requires the "relatively cool hydrocarbon oil" to be an oil which has not been heated at all or which has been heated only by heat exchange with vapors evolved from the oil which has undergone cracking, and to any construction of claim 8 of said patent except that which requires the "fluid hydrocarbons cooler than the heated hydrocarbons" to be fluid hydrocarbons which have not been heated at all or which have been heated only by heat exchange with vapors evolved from the oil which has undergone cracking.

1,805,373.—*John F. Robb,* Cleveland Heights, Ohio. TRUCK MIX METER. Patent dated May 12, 1931. Disclaimer filed July 12, 1933, by the assignee, *Koehring Company.*

Hereby enters this disclaimer to that part of those claims annexed and forming a part of the said specification, which claims are numbered 6, 7, 16, and 17 of the Letters Patent, comprising the following words, to wit:

In combination, a truck mixer type of mixing machine, comprising a truck, a mixing drum thereon, an engine for rotating the drum, means to clutch the engine to the drum to drive the drum for rotation, a batchmeter for governing the time during which a batch of aggregates should be mixed in the drum, and means for starting the batchmeter into operation controlled from said clutch means.

In combination, a truck mixer, including a power plant, a mixing drum, a discharge for said drum, a batchmeter adapted to govern the time when the discharge of the drum should be operated, and means for operatively connecting the power plant to drive the drum in turn operatively connected to the batchmeter to start said batchmeter into operation.

In combination, a mixer for concrete, a motor to drive the mixer, a control device to drivingly connect the motor and mixer, an instrumentality for causing discharge of the mixer, and means for controlling said instrumentality from the said control device.

Combined means as set forth in claim 16 in which the last means includes a timing mechanism that locks the said discharging instrumentality for a predetermined period of time.

1,819,005.—*Joseph Sachs,* West Hartford, Conn. AUTOMATIC CIRCUIT BREAKER. Patent dated August 18, 1931. Disclaimer filed July 11, 1933, by the patentee.

Hereby enters this disclaimer as follows:

He hereby disclaims claim 1.

1,819,844.—*Oscar A. Ross,* New York, N. Y. FOCUSING FINDER. Patent dated August 18, 1931. Disclaimer filed July 15, 1933, by the patentee, the assignee, *Sarah L. Burns,* assenting.

Hereby enters this disclaimer to that part of the claim in said specification which is in the following words, to wit:

"1. In combination a camera, a focussable photographing lens and a focussable finder lens secured thereto, means for causing simultaneously axial movement of the lenses, a view finder arranged in the path of the image rays formed by the finder lens and means actuated by the lens moving means for causing movement of the finder whereby the delineation of the field recorded at the photographing aperture of the camera will substantially conform to the delineation of the field viewed at the finder."

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 8, 1933

[VOL. 433. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 336,982. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Apr. 20, 1933.

PLIOFORM

For Molding Powder and Synthetic Plastic being Powder and Plastic which can be Molded into Various Shapes upon Application of Heat.

Claims use since Jan. 31, 1933.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 333,776. SOCIETE CADUM, Courbevoie, France. Filed Jan. 9, 1933.



The representation of a child appearing on the drawing is fanciful. Applicant without waiver of its common-law rights makes no claim herein to any of the wording appearing upon the drawing except the words "Cadum" and "Société Cadum," or to the representation of a label appearing on the drawing. The colors pink, brown, and gold are claimed as features of the trade-marks.

For Toilet Soap.

Claims use since January, 1914.

Ser. No. 338,102. NATIONAL CHEMICAL CORPORATION, Seattle, Wash. Filed May 22, 1933.

NUTEX

For Cleaning Compound for Rugs, Carpets, and Upholstery.

Claims use since June 1, 1932.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 312,448. NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa. Filed Mar. 23, 1931.

STEARIN TYPE ASPHALT SATURATOR

No. 308

The words "Stearin Type Asphalt Saturator" are disclaimed apart from the mark as shown.

For Material for Moisture Proofing Wires and Cables for Electrical Use.

Claims use since Dec. 1, 1930.

Ser. No. 312,449. NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa. Filed Mar. 23, 1931.

STEARIN TYPE FINISHER

No. 320

The words "Stearin Type Finisher" are disclaimed apart from the mark as shown.

For Material for Fire Proofing Wires and Cables for Electrical Use.

Claims use since Dec. 1, 1930.

Ser. No. 312,450. NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa. Filed Mar. 28, 1931.

STEARIN TYPE COLOR SOLUTION

No. 340

The words "Stearin Type Color Solution" are disclaimed apart from the mark as shown.

For Solution for Coloring Wires and Cables for Electrical Use.

Claims use since Dec. 1, 1930.

Ser. No. 322,683. WALTER S. BRODERICK, doing business as Neutroid Products Co., San Diego, Calif. Filed Jan. 4, 1932.

NEUTROID

For Cold Medicines for the Relief of Colds—Namely, Throat Gargle, Nasal Douche, Ointment and Inhalant for Relief of Head Colds.

Claims use since July 1, 1931.

Ser. No. 328,557. P. O. LOCKHART, doing business as Gary-Lockhart Drug Co. Inc., Perry, Fla. Filed July 5, 1932.

ITCH-IT

For Salve for Athletes Foot, Itching Between Toes, Jock Itch, Ringworm, and Ground Itch.

Claims use since April, 1930.

Ser. No. 335,695. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Mar. 15, 1933.



For Disinfectant, Cod Liver Oil, Tissue Cream, and Insect Destroyers—Namely, Insecticides.

Claims use since Nov. 30, 1932.

Ser. No. 336,197. R. T. VANDERBILT COMPANY, INC., New York, N. Y. Filed Mar. 29, 1933.



No claim is made for the words "American Products—N. Y" apart from the mark shown in the drawing.

For Specially Treated Calcium Carbonate Used as a Pigment in the Manufacture of Paint.

Claims use since Mar. 15, 1933.

Ser. No. 336,480. WILLIAMS TURKEY TONIC, Monticello, Ill. Filed Apr. 5, 1933.



The words "Turkey Tonic" are disclaimed apart from the other features of the mark shown in the drawing.

For Preparation for Treating Blackhead in Turkeys.

Claims use since July 1, 1928.

Ser. No. 336,483. HERBERT H. GRAY, doing business as Novita Company, Chicago, Ill. Filed Apr. 3, 1933.



For Proprietary Preparations—Namely, Uterine Capsules, Rectal Suppositories, Healing Brown Salve for External Use, Kidney Globules, and Laxative Tablets.

Claims use since 1928.

Ser. No. 336,772. KI-UMA, INC., New York, N. Y. Filed Apr. 14, 1933.

KI-UMA

For External Preparation in the Form of an Ointment for the Treatment of Rheumatism, Arthritis and Related Diseases.

Claims use since June 8, 1932.

Ser. No. 336,891. HENRY K. WAMPOLE AND COMPANY, INCORPORATED, Philadelphia, Pa. Filed Apr. 17, 1933.

PAP-KEN

For Antacid, Digestant, Carminative.

Claims use since 1903.

Ser. No. 337,082. NOPCO LABORATORIES, INC., Harrison, N. J. Filed Apr. 22, 1933.



Reserving unto itself all of its common-law rights applicant disclaims sole right to all of the words appearing on the drawing, except "Vitex", "Nature's Own", and "Nopco Laboratories", apart from the other features of the mark as shown. The drawing is lined to indicate the colors red and blue.

For Cod-Liver Oil and Vitamine Containing an Antirachitic Extract from Cod-Liver Oil.

Claims use since Dec. 29, 1929.

Ser. No. 337,182. FULD BROS., INC., Baltimore, Md. Filed Apr. 26, 1933.

VITOZONE

For Antifreeze Composition, Bed Bug Exterminator Preparation, Boiler Compounds, Cattle Spray, Disinfectants; Urinal, Insecticidal, and Deodorant Blocks; Deodorant and Insecticidal Crystals, Drain Pipe Cleaner, Drip-Machine Deodorant Fluid, Insect Spray, Insect Powder, Insecticidal Mill and Warehouse Spray, Pine Oil Deodorant, Pine Oil Disinfectant, Radiator Rust Compound, Chemical Tar Remover, Deodorant Theater Sprays, Weed Killer Preparation, and Wood Floor Bleach.

Claims use since Nov. 1, 1932.

Ser. No. 337,537. MARION ALBION, Boston, Mass. Filed May 8, 1933.

WONDER---POWERIZER

For Combination of Chemicals That Hydrogenate Carbon Through the Use of a Catalytic Agent.

Claims use since May 1, 1932.

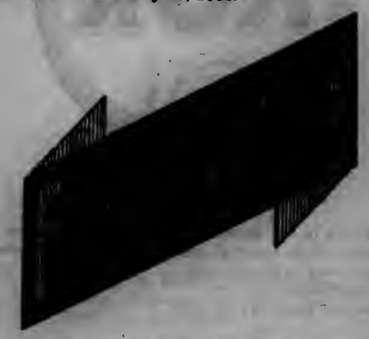
Ser. No. 337,651. ROSEMARIE LEWIS, Los Angeles, Calif. Filed May 8, 1933.

Hem-Rex

For Rectal Suppositories and Ointments.

Claims use since Aug. 1, 1932.

Ser. No. 337,837. CONADWEL LABORATORIES, INC., New York, N. Y. Filed May 15, 1933.



The drawing is lined to indicate shading only. Without waiver of any common-law rights, and solely for the purpose of this registration, applicant makes no claim to the exclusive use of the word "Formula".

For General Tonic Having a Wine Base.

Claims use since Jan. 25, 1933.

Ser. No. 337,838. CONADWEL LABORATORIES, INC., New York, N. Y. Filed May 15, 1933.



The drawing is lined to indicate shading only. Without waiver of any common-law rights and solely for the purpose of this registration, applicant makes no claim to the exclusive use of the word "Formula".

For General Tonic Having a Wine Base.

Claims use since Jan. 25, 1933.

Ser. No. 312,450. NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa. Filed Mar. 23, 1931.

STEARIN TYPE COLOR SOLUTION

No. 349

The words "Stearin Type Color Solution" are disclaimed apart from the mark as shown.

For Solution for Coloring Wires and Cables for Electrical Use.

Claims use since Dec. 1, 1930.

Ser. No. 322,683. WALTER S. BRODERICK, doing business as Neutroid Products Co., San Diego, Calif. Filed Jan. 4, 1932.

NEUTROID

For Cold Medicines for the Relief of Colds—Namely, Throat Gargle, Nasal Douche, Ointment and Inhalant for Relief of Head Colds.

Claims use since July 1, 1931.

Ser. No. 328,557. P. O. LOCKHART, doing business as Gary-Lockhart Drug Co. Inc., Perry, Fla. Filed July 5, 1932.

ITCH-IT

For Salve for Athletes Foot, Itching Between Toes, Jock Itch, Ringworm, and Ground Itch.

Claims use since April, 1930.

Ser. No. 335,695. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Mar. 15, 1933.



For Disinfectant, Cod Liver Oil, Tissue Cream, and Insect Destroyers—Namely, Insecticides.

Claims use since Nov. 30, 1932.

Ser. No. 336,197. R. T. VANDERBILT COMPANY, INC., New York, N. Y. Filed Mar. 29, 1933.



No claim is made for the words "American Products—N. Y" apart from the mark shown in the drawing.

For Specially Treated Calcium Carbonate Used as a Pigment in the Manufacture of Paint.

Claims use since Mar. 15, 1933.

Ser. No. 336,480. WILLIAMS TURKEY TONIC, Monticello, Ill. Filed Apr. 5, 1933.



The words "Turkey Tonic" are disclaimed apart from the other features of the mark shown in the drawing.

For Preparation for Treating Blackhead in Turkeys.

Claims use since July 1, 1928.

Ser. No. 336,483. HERBERT H. GRAY, doing business as Novita Company, Chicago, Ill. Filed Apr. 3, 1933.



For Proprietary Preparations—Namely, Uterine Capsules, Rectal Suppositories, Healing Brown Salve for External Use, Kidney Globules, and Laxative Tablets.

Claims use since 1923.

Ser. No. 336,772. KI-UMA, INC., New York, N. Y. Filed Apr. 14, 1933.

KI-UMA

For External Preparation in the Form of an Ointment for the Treatment of Rheumatism, Arthritis and Related Diseases.

Claims use since June 8, 1932.

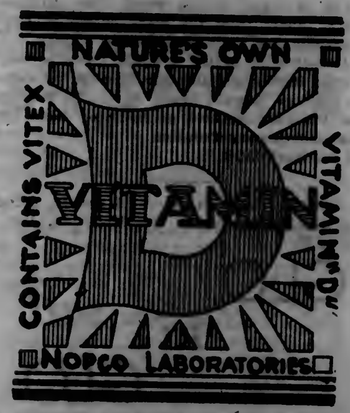
Ser. No. 336,891. HENRY K. WAMPOLE AND COMPANY, INCORPORATED, Philadelphia, Pa. Filed Apr. 17, 1933.

PAP-KEN

For Antacid, Digestant, Carminative.

Claims use since 1903.

Ser. No. 337,082. NOPCO LABORATORIES, INC., Harrison, N. J. Filed Apr. 22, 1933.



Reserving unto itself all of its common-law rights applicant disclaims sole right to all of the words appearing on the drawing, except "Vitex", "Nature's Own", and "Nopco Laboratories", apart from the other features of the mark as shown. The drawing is lined to indicate the colors red and blue.

For Cod-Liver Oil and Vitamine Containing an Antirachitic Extract from Cod-Liver Oil.

Claims use since Dec. 29, 1929.

Ser. No. 337,182. FULD BROS., INC., Baltimore, Md. Filed Apr. 26, 1933.

VITOZONE

For Antifreeze Composition, Bed Bug Exterminator Preparation, Boiler Compounds, Cattle Spray, Disinfectants; Urinal, Insecticidal, and Deodorant Blocks; Deodorant and Insecticidal Crystals, Drain Pipe Cleaner, Drip-Machine Deodorant Fluid, Insect Spray, Insect Powder, Insecticidal Mill and Warehouse Spray, Pine Oil Deodorant, Pine Oil Disinfectant, Radiator Rust Compound, Chemical Tar Remover, Deodorant Theater Sprays, Weed Killer Preparation, and Wood Floor Bleach.

Claims use since Nov. 1, 1932.

Ser. No. 337,587. MARION ALBION, Boston, Mass. Filed May 8, 1933.

WONDER---POWERIZER

For Combination of Chemicals That Hydrogenate Carbon Through the Use of a Catalytic Agent.

Claims use since May 1, 1932.

Ser. No. 337,651. ROSEMARIE LEWIS, Los Angeles, Calif. Filed May 8, 1933.

Hem-Rex

For Rectal Suppositories and Ointments.

Claims use since Aug. 1, 1932.

Ser. No. 337,837. CONADWEL LABORATORIES, INC., New York, N. Y. Filed May 15, 1933.

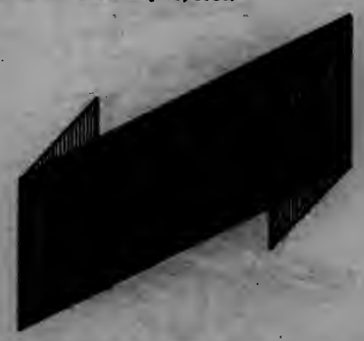


The drawing is lined to indicate shading only. Without waiver of any common-law rights, and solely for the purpose of this registration, applicant makes no claim to the exclusive use of the word "Formula".

For General Tonic Having a Wine Base.

Claims use since Jan. 25, 1933.

Ser. No. 337,838. CONADWEL LABORATORIES, INC., New York, N. Y. Filed May 15, 1933.



The drawing is lined to indicate shading only. Without waiver of any common-law rights and solely for the purpose of this registration, applicant makes no claim to the exclusive use of the word "Formula".

For General Tonic Having a Wine Base.

Claims use since Jan. 25, 1933.

Ser. No. 337,864. STOMASEPTINE COMPANY, New York, N. Y. Filed May 15, 1933.

STOMASEPTINE

For Antiseptic Powder Used for General Antiseptic Purposes and for Feminine Hygiene.
Claims use since June 1, 1930.

Ser. No. 337,871. ROK LABORATORIES, INC., North Kansas City, Mo. Filed May 13, 1933.



The lining in the drawing is for shading purposes only. The words "Kills Insects" are disclaimed apart from the mark as shown on the drawing.
For Insecticides.
Claims use since Jan. 1, 1933.

Ser. No. 337,885. MARINE CHEMICALS COMPANY, LTD., doing business as Marinesia Laboratories, San Francisco and South San Francisco, Calif. Filed May 16, 1933.



For Pharmaceutical Preparation Containing Magnesium Hydroxide and the Salts of the Other Elements Present in Ocean Water and Used as an Antacid, a Laxative, or a Mouth Wash, and Also for a Pharmaceutical Preparation Used as a Dental Cream.
Claims use since May 5, 1933.

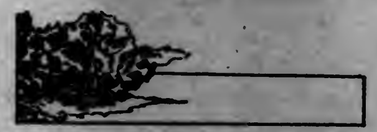
Ser. No. 337,998. R. U. DELAPENHA & CO. INC., New York, N. Y. Filed May 19, 1933.

MATERNITY

For Olive Oil for Medicinal Purposes.
Claims use since May 12, 1933.

Ser. No. 338,189. THE HEARS MFG. CO. INC., Cleveland, Ohio. Filed May 24, 1933.

DR. MÜLLER'S
SWISS TEA



No claim is made to the words "Dr. Mullers" and "Swiss Tea" apart from the mark shown in the drawing, no common law right being hereby waived.
For a Laxative for Relief of Colds, Constipation, Nervous and Sick Headaches, Diuretic Stimulant for the Kidneys and Bladder, Torpid Liver, Neuralgia, Rheumatism, Dizziness, Billiousness, Loss of Appetite, Sour Stomach, Dyspepsia, and Urinary Troubles.
Claims use since 1896.

Ser. No. 338,409. MRS. JAMES A. GAMMAGE, doing business as Glo-Ri-Glo Supply Co., Hopewell, Va. Filed June 1, 1933.

GLO
RI
GLO

For Cosmetics—Namely, Liquefying Cleansing Cream, Tissue Cream, Foundation Cream, Astringent, Oil Shampoo, Permanent Waving Solution, Finger Wave Lotion, and Brilliantine.
Claims use since May 24, 1933.

Ser. No. 338,420. MON DOCTEUR IMPORTING CO., INC., Middlefield, Conn. Filed June 1, 1933.

Dainty Maid

For Sanitary Sets for Feminine Hygiene Containing Antiseptic Powder, Suppositories, and Vaginal Jelly.
Claims use since Dec. 6, 1929.

Ser. No. 338,423. MON DOCTEUR IMPORTING CO., INC., Middlefield, Conn. Filed June 1, 1933.

Mon Docteur

For Medication Recommended for Feminine Antiseptic Purposes—Namely, Powder, Suppositories, and Vaginal Jelly.
Claims use since Dec. 6, 1929.

Ser. No. 338,651. PERCIVAL E. FALKINGHAM, New York, N. Y. Filed June 8, 1933.

Percefal

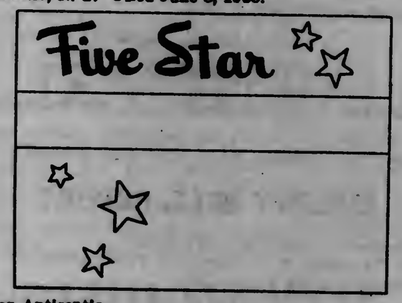
For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs; Skin Whitener in Liquid, Cream, and Solid Form; Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations Suitable for the Darkening of Eyebrows and Eyelashes, Hand Lotions, Skin Lotions, After-Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Depilatories, Tooth Pastes, Nail Creams, Nail Bleaches, Nail Powders, Nail Polishes, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since May 26, 1933.

Ser. No. 338,664. PARFUMERIE ROGER ET GALLET, SOCIETE ANONYME, doing business as Roger & Gallet, Paris, France. Filed June 8, 1933.

ARANGEA

For Pastes and Powders for Preserving and Beautifying the Teeth, Hair, and Skin; and Perfumery.
Claims use since Dec. 13, 1932.

Ser. No. 338,675. WILDROOT COMPANY, INCORPORATED, Buffalo, N. Y. Filed June 8, 1933.



For Antiseptic.
Claims use since May 10, 1933.

Ser. No. 338,686. PHILIP L. BLAKER, doing business as Footlight Products Company, Chicago, Ill. Filed June 9, 1933.



For Cold Cream, Liquefying Cream, Theatrical Cleansing Cream, Bleach Cream, Turtle Oil Cream, Vanishing Cream, Honey Rose and Almond Cream, Cucumber Cream Lotion, Lemon Lotion, Rose Lotion, Eye Shadow, Face Powder, Rouge, Waving and Curling Fluid, Brilliantine, Shampoo, and Hair Tonic.
Claims use since July 1, 1926.

Ser. No. 338,699. MULTIGRAPH COMPANY, Wilmington, Del., and Cleveland, Ohio. Filed June 9, 1933.

Multilith

For Chemicals for Use in Planographic Printing.
Claims use since June 3, 1933.

Ser. No. 338,700. EDWARD J. O'CONNOR, St. Louis, Mo. Filed June 9, 1933.

Voo

For Depilatories.
Claims use since Apr. 19, 1933.

Ser. No. 338,744. C. A. LESIAK, doing business as Lortona Laboratories, Scranton, Pa. Filed June 10, 1933.
The word "Tonic" is disclaimed.

LORTONA
THE SIX STAR TONIC

For Stomach Medicine and Tonic.
Claims use since Mar. 1, 1933.

Ser. No. 338,755. THE PARIS MEDICINE COMPANY, Wilmington, Del., and St. Louis, Mo. Filed June 10, 1933.

LBQ

For Medicinal Tablet for the Relief of Colds, Coughs, Headaches, and Lagrippe.
Claims use since Feb. 1, 1893.

Ser. No. 338,783. SAMUEL N. LANGNOC, doing business as Triple-L Chemical Co., St. Louis, Mo. Filed June 12, 1933.



For Hair Dressing.
Claims use since May 1, 1933.

Ser. No. 338,791. THE PURO CO., INC., St. Louis, Mo. Filed June 12, 1933.

SAV-A-FOOD

No exclusive claim, without, however, waiving any common-law or good-will rights, being made to the word "Food" apart from the mark shown.
For Deodorizer for Refrigerators.
Claims use since May 1, 1933.

Ser. No. 338,794. VINCENT ROMAGNOLI, doing business as Sherman Rider Co., Detroit, Mich. Filed June 12, 1933.



For Hair Tonic in Liquid and Ointment Form for Promoting Growth of Hair.
Claims use since June 2, 1933.

Ser. No. 338,824. THE MATHIESON ALKALI WORKS, INC., New York, N. Y. Filed June 13, 1933.

PH-PLUS

For Specially Prepared Fused Soda Ash to be Used for Water-Softening Purposes.
Claims use since Aug. 18, 1932.

Ser. No. 339,055. J. ELLIOTT WILEY, doing business as Blutoo Mfg. Co., Philadelphia, Pa. Filed June 20, 1933.

BLUTOO

For Washing and Bluing Compounds.
Claims use since Dec. 20, 1932.

Ser. No. 339,156. MERCK & CO., INC., Rahway, N. J. Filed June 23, 1933.

MECHOLIN

For Medicinal Preparation for the Treatment of Disorders of the Peripheral Circulatory System and for Stimulation of the Para-Sympathetic Nervous System.
Claims use since Jan. 27, 1933.

Ser. No. 339,180. CHURCHILL, KARROLL & KELLY, New York, N. Y. Filed June 24, 1933.

No registration rights are claimed for the words "One Minute Treatment Rubs Youth Into Your Feet."
For Preparation for Relieving Troublesome Conditions of the Feet.
Claims use since June 12, 1933.

CLASS 7

Cordage

Ser. No. 338,484. BROWN COMPANY, Portland, Maine, and Berlin, N. H. Filed June 3, 1933.

SOLKA

For Twine.
Claims use since Apr. 5, 1933.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 318,821. COLUMBUS FIREWORKS DISPLAY COMPANY, INC., Newfield, N. J. Filed Sept. 8, 1931.

LIBERTY BELL REPORT

The drawing is lined for red and blue.
For Torpedoes in the Nature of Fire-Crackers.
Claims use since Nov. 1, 1930.

CLASS 10

Fertilizers

Ser. No. 337,075. FRED McDOWELL, Asbury Park, N. J. Filed Apr. 22, 1933.



The drawing is lined for green.
For Fertilizer.
Claims use since Apr. 12, 1932.

CLASS 11

Inks and Inking Materials

Ser. No. 339,221. CODO MANUFACTURING CORPORATION, Coraopolis, Pa. Filed June 26, 1933.

Codo

For Typewriter Ribbons and Carbon Paper.
Claims use since June, 1920.

CLASS 12

Construction Materials

Ser. No. 337,428. THE INTERSTATE AMIESITE CO., INC., Wilmington, Del. Filed May 3, 1933.

ROCK ASPHALT INTERSTATE ROCK ASPHALT

No claim is made to the exclusive use of the words "Rock Asphalt" apart from the mark as shown.
For Paving Material.
Claims use since Apr. 27, 1933.

Ser. No. 338,569. ARTHUR A. JOHNSTONE, New York, N. Y. Filed June 6, 1933.

TENNITURF

For Bonding Material for Surfacing and Covering for Tennis Courts.
Claims use since Aug. 7, 1931.

Ser. No. 339,143. THE BARBER ASPHALT COMPANY, Philadelphia, Pa. Filed June 23, 1933.

EMULMASTIC

For Emulsified Asphalt Intended for Use in Production of Mastic Flooring or Pavements.
Claims use since June 6, 1933.

Ser. No. 339,212. TIMBER ENGINEERING COMPANY, Washington, D. C. Filed June 24, 1933.

TECO

For Lumber and Fabricated Metal Joints for Timber Connections.
Claims use since Mar. 30, 1933.

CLASS 13

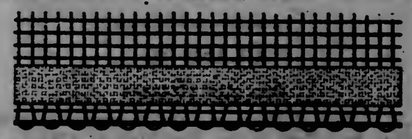
Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 333,150. HARTFORD PRODUCTS CORPORATION, Hartford, Conn. Filed Dec. 17, 1932.

Cafex

For Coffee Makers.
Claims use since Nov. 7, 1932.

Ser. No. 338,789. AMERICAN WIRE FABRICS CORPORATION, New York, N. Y. Filed June 13, 1933.



The mark consists of a band which is golden in color set back slightly from the edge and extending parallel thereto. The drawing is hatched to indicate the golden color.
For Wire Screening.
Claims use since Oct. 18, 1927.

Ser. No. 339,127. LANDON P. SMITH, INC., Irvington, N. J. Filed June 22, 1933.

Red Devil

For Lawn Sprinklers.
Claims use since May 1, 1933.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 328,164. EISLER ELECTRIC CORPORATION, Wilmington, Del., and Union City, N. J. Filed June 21, 1932.

CALTUNG

For Metal Sheet, Metal Rods, and Wire, and Similar Metal Products—Namely, Alloys and Metallic Compositions Containing Non-Metallic Elements, in Sheet, Rod, or Wire Form.
Claims use since August, 1926.

Ser. No. 339,347. CARBOLOY COMPANY, INC., Detroit, Mich. Filed June 29, 1933.



For Hard Metal Composition or Alloy Suitable for or for Use in Cutting Tools, Dies, and for Other Uses.
Claims use since May 26, 1933.

Ser. No. 339,348. CARBOLOY COMPANY, INC., Detroit, Mich. Filed June 29, 1933.



For Hard Metal Composition or Alloy Suitable for or for Use in Cutting Tools, Dies, and Other Uses.
Claims use since May 26, 1933.

CLASS 15

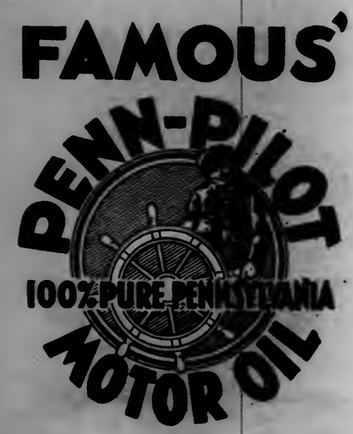
Oils and Greases

Ser. No. 338,111. RICHFIELD OIL CORPORATION OF NEW YORK, New York, N. Y. Filed May 22, 1933.



The words "All-Point Lubrication" is disclaimed apart from the mark shown for the purposes of the trade-mark act, but applicant retains all the common-law rights thereto.
For Petroleum Products—Namely, Lubricating Oil.
Claims use since Jan. 1, 1933.

Ser. No. 338,589. HIRSCH MERCANTILE COMPANY, Los Angeles, Calif. Filed June 3, 1933.



The words "100% Pure Pennsylvania Motor Oil" incorporated in the drawing heretofore filed herein is hereby expressly disclaimed.
For Lubricating Oils and Motor Fuel Oils.
Claims use since Apr. 26, 1933.

Ser. No. 339,058. R. J. AXTELL, Norfolk, Nebr., assignor to Protect-O Oils, Inc., Norfolk, Nebr., a Corporation of Nebraska. Filed June 21, 1933.



The words "Friction-Ease" and "Lubrication" are disclaimed apart from the other features of the mark shown in the drawing.
For Lubricating Oils.
Claims use since May 1, 1933.

Ser. No. 339,087. JUSTIN F. WAITE, New York, N. Y. Filed June 21, 1933.



For Lubricating Oils and Greases, Lubricating Oil, Grease and Wax Compounds, Mineral Wax, Gasoline, and Motor Fuel Oils.
Claims use since Dec. 15, 1932.

Ser. No. 339,098. COAST 2 COAST OIL COMPANY, Cleveland, Ohio. Filed June 22, 1933.

VINDEX

For Lubricating Oils.
Claims use since June 9, 1933.

Ser. No. 339,114. THE PENNZOIL COMPANY, Oil City, Pa. Filed June 22, 1933.

CAPTAIN JACK

For Lubricating Oils.
Claims use since June 12, 1933.

Ser. No. 339,118. REFINERS MARKETING COMPANY LIMITED, Los Angeles, Calif. Filed June 22, 1933.

FIDELO

For Lubricating Oils.
Claims use since June 12, 1933.

CLASS 16

Paints and Painters' Materials

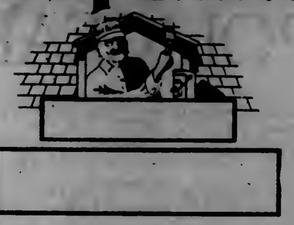
Ser. No. 337,902. WINSOR & NEWTON, LIMITED, London, England. Filed May 16, 1933.



The translation of the Latin words appearing on the drawing is as follows: "Ars Probat Artificem", meaning "Art Proves the Craftsman". The words "Securus Judicat", meaning "The verdict is unassailable".
For Paint Colors and Paint Pigments, Oils, and Varnishes, all for Artists' Use.
Claims use since Apr. 4, 1930.

Ser. No. 338,237. WESTERN PAINT & VARNISH COMPANY, Duluth, Minn. Filed May 25, 1933.

Old Painter



For Automobile Paints and Enamels, Blackboard Slating, Branding Liquids in the Nature of Paint, Bronze Powders, Bronzing Liquids, Colors in Oil, Paste and Liquid Fillers in the Nature of Paint; Wall, Floor, and Machinery Enamels; Ready Mixed Paints, Kalsomine, Paint and Varnish Remover, Varnish, Oil, Penetrating, and Shingle Stains; Putty, Shellac, Varnish, Glazing Liquids, Reducing Liquids, Paint Oil, Paste and Liquid Wax, White Lead, Zoning Paint, Zinc White, Primers, Sealers, Undercoaters, Cold Water Paints, Turpentine, and Linseed Oil.
Claims use since July 1, 1925.

CLASS 17

Tobacco Products

Ser. No. 336,235. STEPHANO BROTHERS, Philadelphia, Pa. Filed Mar. 30, 1933.



The signature of Stephano Brothers is a facsimile of the handwriting of Constantine Stephano, an officer of the applicant corporation.
For Cigarettes.
Claims use since Feb. 2, 1933.

Ser. No. 338,820. FERNANDEZ, PALICIO Y COMPAÑIA, S. EN C., Habana, Cuba. Filed June 13, 1933.

BELINDA

For Cigars.
Claims use since 1873.

Ser. No. 339,306. GOLDSMIT-BLACK, INC., Pittsburgh, Pa. Filed June 28, 1933.



For Cigars.
Claims use since 1886.

Ser. No. 339,307. GOLDSMIT-BLACK, INC., Pittsburgh, Pa. Filed June 28, 1933.



For Cigars.
Claims use since 1905.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 327,973. SOL ERVIN, doing business as Utility Instantaneous Electric Water Heater Co., New York, N. Y. Filed June 14, 1932.

"Sizzler"

For Water Heaters in Which the Heating Element is Electrical.
Claims use since May 13, 1932.

Ser. No. 333,153. HARTFORD PRODUCTS CORPORATION, Hartford, Conn. Filed Dec. 17, 1932.

Cafex

For Electric Cook Stoves.
Claims use since Nov. 7, 1932.

Ser. No. 337,342. WILLIAM H. MACDONALD, East Newark, N. J. Filed May 1, 1933.

SONOLUX

For Motion Picture Exciting Lamps.
Claims use since Nov. 15, 1931.

Ser. No. 337,347. NATIONAL UNION RADIO CORPORATION, Newark, N. J. Filed May 1, 1933.

MARATHON

For Radio Electron Tubes.
Claims use since August, 1924.

Ser. No. 337,990. AUTOMATIC RADIO MANUFACTURING COMPANY, INC., Boston, Mass. Filed May 19, 1933.

RADI-LITE

For Radio Receiving Sets.
Claims use since Apr. 18, 1933.

Ser. No. 338,041. GILBERT & BARKER MANUFACTURING COMPANY, West Springfield, Mass. Filed May 20, 1933.

Essoburner

For Electric Motors, Thermostatically-Controlled Electrical Switches, Transformers, Radio Filters and Condensers, Electrodes, Cables, Wires, and Binding Posts All for Use with Oil Burning Equipment.
Claims use since Apr. 17, 1933.

Ser. No. 338,064. WABASH APPLIANCE CORP., Brooklyn, N. Y. Filed May 20, 1933.



Applicant disclaims the exclusive right to the use of the word "Waco" and the words "The Light of Perfection Lamps" separate and apart from the drawing.
For Incandescent Lamps or Bulbs.
Claims use since Oct. 1, 1932.

Ser. No. 338,547. EDMUND T. FLEWELLING, doing business as Flewelling Company, Dayton, Ohio. Filed June 5, 1933.

POLICEAER

For Radio Receiving Sets and Parts Thereof, Short Wave Adapters and Converters.
Claims use since June, 1932.

Ser. No. 338,901. KINGSTON RADIO COMPANY, INC., Kokomo, Ind. Filed June 16, 1933.

Gipsy

For Radio Receiving Sets.
Claims use since Mar. 9, 1933.

Ser. No. 339,022. CARBON PRODUCTS, INC., New York, N. Y. Filed June 20, 1933.

SUN-ARC

For Projector Carbons.
Claims use since April, 1928.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 329,771. SAMUEL KOHN, New York, N. Y. Filed Aug. 23, 1932.

Penni-Hearts

For Table Board Game Played with Pieces.
Claims use since Aug. 15, 1932.

Ser. No. 333,972. BURTON A. LYNCH, Jr., Washington, D. C. Filed Jan. 16, 1933.

COLLEGIATE

For Playing Cards.
Claims use since Jan. 14, 1933.

Ser. No. 336,711. SYLVESTER T. COMANS, Hartford, Conn. Filed Apr. 13, 1933.

TRAVELONE

For Playing-Card Accessory—Namely, Folders for the Game of Solitaire.
Claims use since Apr. 14, 1932.

Ser. No. 339,051. DAVID WALTER, doing business as Hobby Work Shop, Pasadena, Calif. Filed June 20, 1933.

TrayPak

For Card Game Packages and Accessories for Playing Cards.
Claims use since December, 1932.

Ser. No. 339,052. THE WHITTIER CRAFTSMEN, INC., Amesbury, Mass. Filed June 20, 1933.

WHITTENNIS

For Game Played with a Ball and Racquet.
Claims use since May 27, 1933.

Ser. No. 339,241. ROCK-OLA MANUFACTURING CORPORATION, Chicago, Ill. Filed June 26, 1933.

World's Series

For Coin-Controlled, Ball Projecting Amusement Device.
Claims use since May 10, 1933.

Ser. No. 339,298. GREENLEAF K. BARTLETT, Belgrade Lakes, Maine. Filed June 28, 1933.



For Ball Projection Portable Table Game.
Claims use since Mar. 1, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 336,301. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Mar. 31, 1933.



For Wrenches, Adjustable Hollow Augers, Butcher Knives, Food Choppers, Hair Clippers, Hand Sprayers, Riveting Machines, Die Cast White Metal Pulleys, Typewriters, and Printing Presses.
Claims use since Nov. 25, 1932, as to wrenches, adjustable hollow augers, butcher knives, food choppers, hair clippers, hand sprayers, and riveting machines; since November 21, 1932, as to die cast white metal pulleys; since Feb. 7, 1933, as to typewriters; and since Nov. 30, 1932, on printing presses.

Ser. No. 338,532. MINUTE SAFETY RAZOR CORPORATION, Newark, N. J. Filed June 5, 1933.



No claim is made to the word "Blades" apart from the mark shown on the drawing. The lining in the triangle represents shading only and the rest of the drawing is lined for green.
For Safety Razor Blades.
Claims use since Nov. 18, 1931.

Ser. No. 339,146. LOUIS O. BLACK, doing business as Black Blade Company, Toledo, Ohio. Filed June 23, 1933.

La Salle

For Razor Blades.
Claims use since Oct. 1, 1930.

Ser. No. 339,240. QUALCAST LIMITED, Derby, England. Filed June 26, 1933.

QUALCAST

For Lawn Mowers, and Parts Thereof.
Claims use since April, 1923.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 326,514. BENDIX-COWDREY BRAKE TESTER, INC., South Bend, Ind. Filed Apr. 26, 1932.

BENDIX COWDREY

For Brake Testing Devices for Automobiles and Parts Thereof.
Claims use since Sept. 9, 1931.

Ser. No. 327,556. JULIAN A. JOFFE, doing business as Telatimer Company, New York, N. Y. Filed May 28, 1932.



The representation of the goods is hereby disclaimed.
For Timing Devices for Indicating the Duration of a Telephone Conversation.
Claims use since March, 1932.

Ser. No. 337,758. REMINGTON RAND INC., Buffalo, N. Y. Filed May 12, 1933.

Dexigraph

For Photographing Cameras; Developing, Fixing, and Washing Cabinets, Trays, and Pans; Photographic Film Drying Apparatus; and Cutting Devices for Photographic Papers, Accessories, and Parts Thereof.
Claims use since Feb. 25, 1929.

Ser. No. 338,007. THE INDUSTRIAL JEWEL COMPANY, INC., Waltham, Mass. Filed May 19, 1933.



No claim is made to the words "Waltham", "Jewels", and "Meter", and the representation of a design similar to a watch, apart from the mark shown.
For Jewel Bearings for Electrical Instruments of Precision Having Moving Parts—Namely, Electrical Meters.
Claims use since Apr. 12, 1933.

Ser. No. 339,085. VICTOR ANIMATOGRAPH CORPORATION, Davenport, Iowa. Filed June 21, 1933.



For Kinematographs, Kinematographic Cameras, Stereopticons, Stereopticon Slides and Records, Kinematographic Film, Projecting Lanterns, Stereotropes, Microscopic Motion Pictures and Slides, and Autochrome Slides.
Claims use since September, 1912.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 338,973. JOSEPH GRANAT, San Francisco, Calif. Filed June 19, 1933.

"The Finger-Bracelet"

For Finger Rings.
Claims use since June 4, 1933.

CLASS 32

Furniture and Upholstery

Ser. No. 339,059. BURTON-DIXIE CORPORATION, Chicago, Ill. Filed June 21, 1933.

SLEEPY DECK

For Porch Beds.
Claims use since Apr. 28, 1933.

CLASS 33

Glassware

Ser. No. 338,870. INLAND GLASS WORKS, INC., Chicago, Ill. Filed June 15, 1933.

PYROLUX

For Lighting Globes, Baking Bowls, Covers, Coffee Brewers All of Glass, and Lenses.
Claims use since June 1, 1933.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 326,011. ANTONIO FRANSOSI, doing business as Diamond Oil Burner Mfg. Co., Providence, R. I. Filed Apr. 12, 1932.

DIAMOND

For Oil Burners.
Claims use since Mar. 1, 1932.

Ser. No. 328,856. WHITEHEAD METAL PRODUCTS COMPANY OF NEW YORK, INC., New York, N. Y. Filed July 16, 1932.

WHITEHEAD

For Gas Automatic Hot Water Storage Systems.
Claims use since Apr. 6, 1931.

Ser. No. 339,238. THE PHILADELPHIA AND READING COAL AND IRON COMPANY, Philadelphia, Pa. Filed June 26, 1933.

PaRco

For Automatic Furnaces, and Parts Thereof.
Claims use since May 1, 1933.

Ser. No. 339,239. THE PHILADELPHIA AND READING COAL AND IRON COMPANY, Philadelphia, Pa. Filed June 26, 1933.

PaRco Maximatic

For Automatic Furnaces, and Parts Thereof.
Claims use since May 1, 1933.

CLASS 36

Musical Instruments and Supplies

Ser. No. 331,001. KRAKAUER BROS., New York, N. Y. Filed Oct. 6, 1932. Under 10-year proviso.

KRAKAUER

For Pianos.
Claims use since February, 1875.

Ser. No. 338,241. COMPAGNIE GENERALE DES MACHINES PARLANTES PATHE-FRERES. Paris, France. Filed May 24, 1933.

"PATHÉPHONE"

For Talking Machines and Parts Thereof and Accessories Thereof.
Claims use since January, 1908.

CLASS 37

Paper and Stationery

Ser. No. 334,715. NATIONAL CELLULOSE CORPORATION, New York, N. Y. Filed Feb. 7, 1933.

Caresse

For Cleansing Tissues.
Claims use since Jan. 27, 1933.

Ser. No. 338,485. BROWN COMPANY, Portland, Maine, and Berlin, N. H. Filed June 3, 1933.

SEALO

For Paper Towels.
Claims use since Mar. 24, 1933.

Ser. No. 338,913. VELDOWN COMPANY, INC., New York, N. Y. Filed June 16, 1933.

SILHOUETTE

For Cleansing Tissues.
Claims use since Apr. 26, 1930.

Ser. No. 339,432. FOX RIVER PAPER COMPANY, Appleton, Wis. Filed July 1, 1933.

LONGEVITY

For Bond Paper.
Claims use since June 25, 1933.

CLASS 38

Prints and Publications

Ser. No. 338,087. THE HAIRE PUBLISHING COMPANY, INC., New York, N. Y. Filed May 22, 1933.

CROCKERY and GLASS JOURNAL

For Periodical Publication.
Claims use since February, 1932.

Ser. No. 338,788. NANCY NAGHTEN, Chicago, Ill. Filed June 12, 1933.

SILVER SHORE GOSSIP

For Publications Published Bi-Weekly or from Time to Time.
Claims use since Apr. 1, 1933.

Ser. No. 339,246. AMERICAN RETAILERS, INCORPORATED, New York, N. Y. Filed June 27, 1933.

ARA
AMERICAN RETAILERS
INCORPORATED

For Periodical Reports and Booklets.
Claims use since July 22, 1932.

Ser. No. 339,319. DONALD D. MACFARLAND, Los Angeles, Calif. Filed June 28, 1933.

Baron Munchausen

For Series of Cartoons.
Claims use since June 10, 1933.

CLASS 39

Clothing

Ser. No. 309,977. F. P. HOY, INC., New York, N. Y. Filed Jan. 15, 1931.

LUXOR

For Corsets, Brassières and Underwear for Women.
Claims use since December, 1930.

Ser. No. 310,509. CARLTON MILLS, INC., New York, N. Y. Filed Jan. 29, 1931.

ST REGIS

For Men's, Women's, and Children's Hosiery; and Underwear Made of Knitted, Netted, and Textile Fabrics; and Sweaters, Jackets.
Claims use since Aug. 10, 1930.

Ser. No. 317,092. PLATT HOSIERY COMPANY, New York, N. Y. Filed July 18, 1931.

Hy-Sox
HOSE and GARTERS

No claim is made to the exclusive use of the words "Hose and Garters" or to the exclusive use of the word "Hy-Sox" except in connection with the mark as shown.
For Hose and Hose Supporters.
Claims use since July 14, 1931.

Ser. No. 327,228. MARILYN SLIPPER SHOPS, Augusta, Ga. Filed May 18, 1932.

Marilyn
SLIPPER SHOPS

No claim is made to the descriptive term "Slipper Shops" apart from the mark as shown on the drawing.
For Leather Shoes.
Claims use since Mar. 18, 1932.

Ser. No. 328,278. THE PALACE CLOTHIERS, Tulsa, Okla. Filed June 24, 1932.

Peremont

For Men and Boys' Rain Coats and Over Coats.
Claims use since Feb. 10, 1929.

Ser. No. 329,170. AJAX HOSIERY MILLS, Phoenixville, Pa. Filed July 29, 1932.

Duo Flex

For Hosiery.
Claims use since June 24, 1932.

Ser. No. 331,322. SACKI & WEINSTEIN, New York, N. Y. Filed Oct. 17, 1932.

SENECA

For Ladies' Hosiery.
Claims use since September, 1931.

Ser. No. 335,004. PRODISCON PRODUCTS, INCORPORATED, Minneapolis, Minn. Filed Feb. 15, 1933.

Sel-Fa-Jus-To

For Undergarments for Women—Namely, Pants and Bloomers.
Claims use since Dec. 1, 1932.

Ser. No. 335,038. SOCIETE ANONYME SCHIAPARELLI, Paris, France. Filed Feb. 16, 1933.

Schiaparelli

The trade-mark consists of a facsimile of the word "Schiaparelli" as it appears in the personal signature of Elsa Schiaparelli, the president of the applicant.
For Women's Wearing Apparel and Accessories—Namely, Dresses, Gowns, Dressing Gowns, Coats, Capes, Scarfs, Hats, Vests, Brassières, Knickers, Panties, Slips, Chemises, and Gloves of Leather or Fabric.
Claims use since November, 1927.

Ser. No. 335,127. MCLOUGHLIN MANUFACTURING COMPANY, Indianapolis, Ind. Filed Feb. 20, 1933.

"Babe Ruth"

The mark is a facsimile of the signature of George Herman Ruth.
For Pajamas, Night Shirts, Sweat Shirts, and Sweaters Both Knitted and Woven.
Claims use since July 1, 1930.

Ser. No. 335,918. ARNOLD, CONSTABLE & CO., INC., New York, N. Y. Filed Mar. 21, 1933.

Unawares

For Corsets, Brassières, Girdles, and Lingerie—Namely, Bloomers, Vests, Bandeaux, Chemises, Negligees, Slips, Petticoats, Shorts, Costume Slips, Panties, and Step-Ins (Drawers).
Claims use since Feb. 10, 1933.

Ser. No. 338,295. UNIVERSAL BRASSIERE & JUSTRITE CORSET CO, INC., New York, N. Y. Filed May 27, 1933.

SLIM-A-HIP

For Corsets, Girdles, Corselets, and Brassières.
Claims use since Jan. 1, 1933.

Ser. No. 338,494. LOUIS B. HERMAN, Brooklyn, N. Y. Filed June 3, 1933.

HERMAN'S FOOTRUE SHOES

Applicant disclaims the right to the exclusive use of the word "Shoes" except as used in connection with the trade-mark shown.
For Shoes and Overshoes Made of Leather, Rubber or Fabric, or Any Combination Thereof.
Claims use since Apr. 1, 1933.

Ser. No. 338,611. THE MANHATTAN SHIRT CO., New York, N. Y. Filed June 7, 1933.

MANTERRIE

For Pull-Overs or Sweaters.
Claims use since May 1, 1933.

Ser. No. 338,873. MERIT ASSOCIATED HOSIERY MILLS, INC., New York, N. Y. Filed June 15, 1933.



No claim is made to the words "Ring-Pruf" apart from the mark shown in the drawing but in making this disclaimer applicant does not relinquish any of its common-law rights.
For Ladies' Full Fashioned Hosiery.
Claims use since Apr. 28, 1933.

Ser. No. 339,032. HARRIETT SILK SALES CORPORATION, New York, N. Y. Filed June 20, 1933.

AQUA-TEST

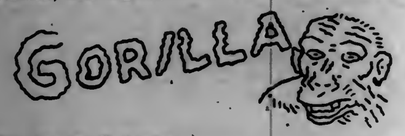
For Ladies, Misses, and Girls Outer Wear Comprising Coats, Dresses, and Blouses, made of Silk Fabric.
Claims use since May 27, 1933.

Ser. No. 339,038. MANNY-RIELLY CO., New York, N. Y. Filed June 20, 1933.

Ballettes

For Women's Underwear.
Claims use since May 13, 1933.

Ser. No. 339,200. THE PACIFIC KNITTING MILLS, INCORPORATED, Los Angeles, Calif. Filed June 24, 1933.



For Woolen Sweaters.
Claims use since Jan. 31, 1933.

Ser. No. 339,252. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed June 27, 1933.

BUNTIES

For Men's, Women's, and Children's Underwear.
Claims use since June 26, 1933.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No, 329,716. KLEIN BROTHERS, New York, N. Y. Filed Aug. 20, 1932.

ROSANNE

For Real Silk, Wool, Linen, Cotton, and/or Combinations Thereof, in the Piece, Woven, Knitted or Textile and Ribbons.
Claims use since Feb. 26, 1929.

Ser. No. 333,400. PARIS CURTAIN & LINEN STORES, INC., New York, N. Y. Filed Dec. 27, 1932.

Paragrain

For Curtains and Draperies Made of Textile Fabrics, Scarfs, and Bedspreads.
Claims use since September, 1929.

Ser. No. 333,401. PARIS CURTAIN & LINEN STORES, INC., New York, N. Y. Filed Dec. 27, 1932.

Phillippe

For Draperies Made of Textile Fabrics, Piano Scarfs, and Runners.
Claims use since September, 1930.

Ser. No. 333,402. PARIS CURTAIN & LINEN STORES, INC., New York, N. Y. Filed Dec. 27, 1932.

Femina

For Curtains Made of Textile Fabrics.
Claims use since September, 1927.

Ser. No. 336,489. WILLIAM L. BARRELL COMPANY, New York, N. Y. Filed Apr. 6, 1933.

Holy Roller

For Cotton Suitings.
Claims use since Mar. 22, 1933.

Ser. No. 338,006. HYDEMAN & LASSNER INC., New York, N. Y. Filed May 19, 1933.

Sporturb

For Lace Piece Goods.
Claims use since Jan. 5, 1932.

Ser. No. 339,175. AMERICAN WOOLEN COMPANY, New York, N. Y. Filed June 24, 1933.

KORDVANE

For Piece Goods Composed Wholly or in Part of Worsted and Particularly Suitable for Use in the Manufacture of Shoes and Spats and for Upholstery.
Claims use since June 17, 1933.

Ser. No. 339,178. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed June 24, 1933.

Vel-Royale

For Pile Fabrics in the Piece.
Claims use since June 7, 1933.

Ser. No. 339,253. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed June 27, 1933.

CEDILLA

For Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since July 26, 1933.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 337,685. JULIUS SCHMID, New York, N. Y. Filed May 11, 1933.

PARAGON

For Prophylactic Rubber and Membraneous Articles for the Prevention of Contagious Diseases.
Claims use since Dec. 1, 1932.

Ser. No. 339,103. GENERAL ELECTRIC X-RAY CORPORATION, Chicago, Ill. Filed June 22, 1933.

INDUCTOTHERM

For High Frequency Machines, Particularly Machines for Producing Local and General Fevers.
Claims use since Apr. 1, 1933.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 338,965. CALIFORNIA PRUNE PRODUCTS COMPANY, San Jose, Calif. Filed June 19, 1933.

PRUNE NIP

No claim is made to the word "Prune" except as associated with the word "Nip".
For Nonalcoholic, Maltless Prune Beverage Sold as a Soft Drink.
Claims use since Sept. 1, 1932.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 316,466. SUNRISE FISH CO., INC., Islip, N. Y. Filed June 26, 1931.



The drawing is lined for red.
For Whole Fish in Their Natural State.
Claims use since May 6, 1931.

Ser. No. 320,872. RAWSON SALES COMPANY, INC., Long Island City, N. Y. Filed Nov. 6, 1931.

BIT-O-SWEET

The word "Sweet" is disclaimed apart from the mark as shown.
For Candy.
Claims use since Oct. 15, 1931.

Ser. No. 323,486. DONAHOE'S INC., Pittsburgh, Pa. Filed Jan. 27, 1932.



For Canned Vegetables—Namely, Asparagus, Lima Beans, Whole Stringless Beans, Whole Wax Beans, Beets; Canned Fruits, Including Apricots, Apple-Sauce, Royal Ann Cherries, Peaches (Halves), Peaches (Sliced), Bartlett Pears, Pineapple (Sliced), Pineapple (Crushed), Prunes, Fruits for Salads; and the Following Miscellaneous Foods—Namely, Honey in Jars and Cans, Jelly of Assorted Flavors, Dill Pickles and Sweet Pickles in Jars, Sweet Mixed and Sour Pickles in Jars, Fruit Preserves in Jars, Sweet Relish in Jars, Red Salmon in Cans, Shrimp in Cans, and Vinegar in Glass.
Claims use since March, 1926.

Ser. No. 331,026. FROZEN CONFECTIONS, INC., New York, N. Y. Filed Oct. 6, 1932.



All color and wording other than the trade-mark "Choco" appearing on the drawing are hereby disclaimed.
For Frozen Confections and Ice Cream Confections on Sticks.
Claims use since Sept. 1, 1931.

Ser. No. 336,102. LORENZ G. SPINDLER, New York, N. Y. Filed Mar. 25, 1933.



TOWN & COUNTRY

POLYPEP

For Wheat Flour.
Claims use since Jan. 3, 1933.

Ser. No. 336,988. MANEY MILLING COMPANY, Omaha, Nebr. Filed Apr. 20, 1933.



No claim is made to the name "Best" apart from the mark shown in the drawing.
For Wheat Flour.
Claims use since 1909.

Ser. No. 337,084. NOPCO LABORATORIES, INC., Harrison, N. J. Filed Apr. 22, 1933.



The drawing is lined for red.
For Vitamine-D Carrying Menstruums for Ingredients of Breads, Biscuits, Cakes, Rolls, Buns, Muffins, Pies, Doughnuts, Crackers, Cookies, Flours, Cereal Breakfast Foods, Chocolate, Flavoring Extracts, Cereal Meals, Butter, Milk, Yeast, Lard, Animal Fats, Vegetable Fats, Baking Powders, Jellies, Jams, and Preserves.
Claims use since Dec. 29, 1929.

Ser. No. 337,562. GENERAL VEGETABLE OIL COMPANY, INC., New York, N. Y. Filed May 6, 1933.

NUTCRUSH

For Vegetable Shortening.
Claims use since Apr. 28, 1933.

Ser. No. 337,684. F. G. VOGT & SONS, INCORPORATED, Philadelphia, Pa. Filed May 10, 1933.

Ener-G

For Sausage.
Claims use since Apr. 21, 1933.

Ser. No. 337,774. CALIFORNIA CONSERVING CO., San Francisco, Calif. Filed May 13, 1933.

SPANIOLA

For a Sauce for Table Use or Cooking.
Claims use since Dec. 14, 1932.

Ser. No. 337,943. BURNETT'S, INC., Newark, N. J. Filed May 18, 1933.



The drawing is lined to represent the colors red and yellow.
For Fish Food, Tropical Fish Food, Bird Seed, and Moulting Food.
Claims use since Jan. 15, 1931.

Ser. No. 338,135. BURNETT'S, INC., Newark, N. J. Filed May 23, 1933.

GLANDEX

For Fish Food.
Claims use since Feb. 1, 1933.

Ser. No. 338,186. THE GREAT AMERICAN TEA CO., New York, N. Y. Filed May 24, 1933.

Amert

For Canned Food Products—Namely, Evaporated Milk, Baked Beans, Red Beans, Lima Beans, Green Beans, Peas, Corn, and Sardines.
Claims use since Sept. 15, 1932.

Ser. No. 338,212. AMERICAN MAIZE-PRODUCTS COMPANY, New York, N. Y. Filed May 25, 1933.

BREWDEX

For Industrial Syrup Derived from Corn.
Claims use since May 5, 1933.

Ser. No. 338,348. ABSOPURE FRUIT PRODUCTS, INC., Los Angeles, Calif. Filed May 31, 1933.

ABSOPURE

For Canned Citrus Fruit Juices Used for Food Purposes.
Claims use since Apr. 19, 1933.

Ser. No. 338,619. REED CANDY COMPANY, Chicago, Ill. Filed June 7, 1933.

PaLoop

The drawing is lined for shading only.
For Butter Scotch—Namely, Candy.
Claims use since May 27, 1933.

Ser. No. 338,743. INDIAN VALLEY DAIRY, Kansas City, Mo. Filed June 10, 1933.



For Milk and Cream.
Claims use since Mar. 15, 1932.

Ser. No. 338,964. CALIFORNIA PRODUCE DISTRIBUTORS, Los Angeles, Calif. Filed June 19, 1933.

CALETUS

For Fresh Vegetables.
Claims use since June 1, 1933.

Ser. No. 339,002. ROSEFIELD PACKING COMPANY, LTD., Alameda, Calif. Filed June 19, 1933.

SKIPPY

For Peanut Butter.
Claims use since Feb. 1, 1933.

Ser. No. 339,297. BAKER EXTRACT COMPANY, Springfield, Mass. Filed June 28, 1933.

BEXERT

For Preparation for Use in Making Ice Cream.
Claims use since June 20, 1933.

CLASS 47

Wines

Ser. No. 331,856. DUBOS FRERES & CIE., doing business as Cunliffe, Dobson & Co., Bordeaux, France. Filed Nov. 3, 1932.

C.D

CUNLIFFE, DOBSON & Cº
BORDEAUX
FRANCE

No claim is made to the words "Cunliffe, Dobson & Co., Bordeaux, France".
For Wines.
Claims use since Jan. 14, 1921.

Ser. No. 335,124. M. KEMPINSKI & Co., Berlin, Germany. Filed Feb. 20, 1933.

M·KEMPINSKI & CO·
BERLIN·

Owners of registration 304,189 under 10-year proviso.
No claim is made to the exclusive use of the word "Berlin" apart from the association shown on the drawing.
For Wines and Champagnes.
Claims use since 1928.

Ser. No. 338,887. VINO SANO COMPANY, San Francisco, Calif. Filed June 13, 1933.

CHAMPUS

For Wines.
Claims use since Mar. 29, 1933.

Ser. No. 339,134. JULIUS WILE, SONS & CO., New York, N. Y. Filed June 22, 1933. Under the 10-year proviso.

OLD FAMILY

For Sherry Wine.
Claims use since 1877.

Ser. No. 339,160. MORGADO & SILVA, Villa Nova de Gaya, Portugal. Filed June 23, 1933.

The drawing is lined for shading.
For Wines.
Claims use since Mar. 12, 1927.

Ser. No. 339,171. JULIUS WILE, SONS & CO., New York, N. Y. Filed June 23, 1933.

GIRALDA

For Sherry Wine.
Claims use since Jan. 1, 1910.

Ser. No. 339,386. B. CRIBARI & SONS, San Jose, Calif. Filed June 30, 1933.

B. Cribari

San Benito

For Wines.
Claims use since June 9, 1933.

CLASS 48

Malt Beverages and Liquors

Ser. No. 338,633. THE WEHLE BREWING COMPANY, West Haven, Conn. Filed June 7, 1933.

No claim is made to the words "Ale" and "West Haven, Connecticut", nor to the representation of a label per se. The drawing is lined for red.
For Malt Beverages—Specifically Ale, with Not More Than the Legal Alcoholic Content.
Claims use since Apr. 17, 1933.

Ser. No. 338,634. THE WEHLE BREWING COMPANY, West Haven, Conn. Filed June 7, 1933.

WEHLE

No claim is made to the words "Beer", "Lager Beer", and "West Haven, Connecticut", nor to the representation of a label per se. The drawing is lined for red.
For Malt Beverages—Specifically Beer, with Not More Than the Legal Alcoholic Content.
Claims use since Apr. 17, 1933.

Ser. No. 338,929. M. K. GOETZ BREWING CO., St. Joseph, Mo. Filed June 17, 1933.

"COUNTRY CLUB"

The drawing is lined for red. No claim is made to the word "Special" apart from the mark as shown.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Dec. 29, 1921.

Ser. No. 339,165. W. A. ROSS & BROTHER, LIMITED, Liverpool, England. Filed June 23, 1933.

GREAT AUK'S HEAD

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Jan. 1, 1897.

Ser. No. 339,273. IROQUOIS BEVERAGE CORPORATION, Buffalo, N. Y. Filed June 27, 1933.

INDIAN HEAD

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Feb. 8, 1908.

Ser. No. 339,413. VERNON BREWING COMPANY, Los Angeles, Calif. Filed June 30, 1933.

LUXURY

For Malt Cereal Beverage Having Not Over the Legal Alcoholic Content.
Claims use since June 8, 1933.

Ser. No. 339,415. VERNON BREWING COMPANY, Los Angeles, Calif. Filed June 30, 1933.

Santa Rita

For Malt Cereal Beverage Having Not Over the Legal Alcoholic Content.
Claims use since June 8, 1933.

Ser. No. 339,417. VERNON BREWING COMPANY, Los Angeles, Calif. Filed June 30, 1933.

WESTERN

For Malt Cereal Beverage Having Not Over the Legal Alcoholic Content.
Claims use since June 8, 1933.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 336,142. WINE & SPIRIT VAULTS LIMITED, doing business as Black, McDonald & Co., London, England. Filed Mar. 27, 1933.



The drawing is not lined for any color. No claim is made to any of the words appearing on the drawing with the exception of "Black & McDonald's" and "Black, McDonald & Co.," or to the representation of a label per se.

For Whisky and Other Potable Distilled Liquors.

Claims use since June 1, 1930.

Ser. No. 338,036. DERICK R. MARTIN, Edgware, England. Filed May 20, 1933.

AMBASSAGE

For Whisky.

Claims use since May 4, 1933.

Ser. No. 338,154. LANG BROTHERS, LIMITED, Glasgow, Scotland. Filed May 23, 1933.



No claim is made to any of the words appearing on the drawing with the exception of "The Aberfoyle" and the corporate name of applicant.

For Whisky.

Claims use since May 17, 1881.

Ser. No. 339,166. W. A. ROSS & BROTHER, LIMITED, Liverpool, England. Filed June 23, 1933.



For Gin, Sloe Gin, Orange Bitters, Rum, Cherry Whisky, Blackberry Brandy, Peach Brandy, Cherry Brandy, Apricot Cordial, Ginger Cordial, Crème de Menthe, Ginger Brandy, Apricot Brandy, and Other Potable Distilled Spirits.

Claims use since Mar. 21, 1898.

Ser. No. 339,170. JOHN WALKER & SONS, LIMITED, London, England. Filed June 28, 1933.



For Whisky.

Claims use since January, 1910.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 339,322. MONROE AND SHEPHERD, Akron, Ohio. Filed June 28, 1933.



For Fly Swatters.

Claims use since September, 1932.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 8, 1933

305,143. SALVE FOR THE LOCAL TREATMENT OF HEAD AND CHEST COLDS, ETC. MRS. C. A. MUSSELWHITE, doing business as Willard Products Company, Greenville, N. C.
Filed February 20, 1933. Serial No. 335,155. PUBLISHED MAY 23, 1933. Class 6.

305,144. COOKIES, CAKES, AND CRACKERS. J. S. IVINS' SON, INC., Philadelphia, Pa.
Filed February 17, 1933. Serial No. 335,065. PUBLISHED MAY 23, 1933. Class 46.

305,145. CAKE CONFECTION. THE WILLIAMS BAKERY, Scranton, Pa.
Filed February 24, 1933. Serial No. 335,264. PUBLISHED MAY 16, 1933. Class 46.

305,146. LEATHER MACHINERY BELTING. GRATON & KNIGHT COMPANY, Worcester, Mass.
Filed February 21, 1933. Serial No. 335,162. PUBLISHED MAY 23, 1933. Class 35.

305,147. SELF-RISING FLOUR. THE WALL-ROGALSKY MILLING COMPANY, McPherson, Kans.
Filed March 1, 1933. Serial No. 335,408. PUBLISHED MAY 23, 1933. Class 46.

305,148. MEN'S HATS. STYLEPARK HATS, INC., Philadelphia, Pa.
Filed February 28, 1933. Serial No. 335,371. PUBLISHED MAY 9, 1933. Class 39.

305,149. MATÉ TEA. BENJAMIN LEVY, New York, N. Y.
Filed February 21, 1933. Serial No. 335,165. PUBLISHED MAY 16, 1933. Class 46.

305,150. COOKIES, CAKES, AND CRACKERS. J. S. IVINS' SON, INC., Philadelphia, Pa.
Filed February 17, 1933. Serial No. 335,066. PUBLISHED MAY 23, 1933. Class 46.

305,151. COOKIES, CAKES, AND CRACKERS. J. S. IVINS' SON, INC., Philadelphia, Pa.
Filed March 1, 1933. Serial No. 335,399. PUBLISHED MAY 23, 1933. Class 46.

305,152. GENERAL HOUSEHOLD CLEANING PREPARATION. KEENE WASHING PRODUCTS CO., Keene, N. H.
Filed February 24, 1933. Serial No. 335,236. PUBLISHED MAY 23, 1933. Class 4.

305,153. HIGHWAY GUARD FENCES, POSTS, GUARD RAILS, AND GUARD FENCE TIMBERS. SOUTHERN WOOD PRESERVING COMPANY, Atlanta and East Point, Ga.
Filed March 2, 1933. Serial No. 335,428. PUBLISHED MAY 16, 1933. Class 12.

305,154. SAFETY RAZOR BLADES. MARATHON RAZOR BLADE CO. INC., Irvington, N. J.
Filed March 2, 1933. Serial No. 335,423. PUBLISHED MAY 23, 1933. Class 28.

305,155. ORGANDY IN THE FORM OF PIECE GOODS. AKTIENGESELLSCHAFT CILANDER, Herisau, Switzerland.
Filed March 10, 1933. Serial No. 335,571. PUBLISHED MAY 23, 1933. Class 42.

305,156. OILS COMPRISING MIXTURES OF OLIVE OIL AND VEGETABLE OILS FOR FOOD PURPOSES. VINCENT BUONOCORE, INC., New York, N. Y.
Filed March 2, 1933. Serial No. 335,440. PUBLISHED MAY 16, 1933. Class 46.

305,157. SCOTCH WHISKY. S. CAMPBELL & SON LIMITED, Glasgow, Scotland.
Filed March 10, 1933. Serial No. 335,574. PUBLISHED MAY 23, 1933. Class 49.

305,158. CRISP BREAD OF RYE, SO CALLED CRISP BREAD, AND OTHER KINDS OF BREAD. ANNEDALS KNÄCKEBRÖDSBAGERI, Gottenborg, Sweden.
Filed March 10, 1933. Serial No. 335,573. PUBLISHED MAY 23, 1933. Class 46.

305,159. PIECE GOODS OF SILK AND WOOL TWEED, TEXTILE CARPETS, AND LACE CURTAINS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 15, 1933. Serial No. 335,698. PUBLISHED MAY 23, 1933. Class 42.

305,160. CANDIES. CLEEVES LIMITED, London, England.
Filed March 14, 1933. Serial No. 335,630. PUBLISHED MAY 16, 1933. Class 46.

305,161. METAL PIPE AND PIPE FITTINGS. TAYLOR FORGE & PIPE WORKS, Cicero, Ill.
Filed March 16, 1933. Serial No. 335,750. PUBLISHED MARCH 28, 1933. Class 13.

305,162. FRESH FISH, CANNED FISH, SALTED FISH, SMOKED FISH, AND DRIED FISH. ANDREW JOHNSON, KNUDTZON, LIMITED, Hull, England.
Filed March 16, 1933. Serial No. 335,723. PUBLISHED MAY 16, 1933. Class 46.

305,163. BASE METAL COOKING HOLLOW WARE. WEST BEND ALUMINUM COMPANY, Hull, England.
Filed March 16, 1933. Serial No. 335,753. PUBLISHED MAY 23, 1933. Class 13.

305,164. COFFEE MAKING PERCOLATORS. WEST BEND ALUMINUM COMPANY, West Bend, Wis.
Filed March 16, 1933. Serial No. 335,752. PUBLISHED MARCH 28, 1933. Class 13.

305,165. FISHING RODS. JAMES HEDDON'S SONS, Dowagiac, Mich.
Filed March 17, 1933. Serial No. 335,780. PUBLISHED MAY 23, 1933. Class 22.

305,166. SHEETS, PILLOW-CASES, AND SHEETING. FRANKLIN TEXTILE CORPORATION, New York, N. Y.
Filed March 17, 1933. Serial No. 335,775. PUBLISHED MAY 23, 1933. Class 42.

305,167. CEREAL FOOD PRODUCTS—NAMELY, WHEAT BREAKFAST FOODS AND TOASTED WHEAT FLAKES. HECKER-H-O COMPANY, INC., Buffalo, N. Y.
Filed March 18, 1933. Serial No. 335,817. PUBLISHED MAY 23, 1933. Class 46.

305,168. HANDBAGS, SUITCASES, VALISES, OVERNIGHT CASES AND HAT BOXES. SAKS & COMPANY, New York, N. Y.
Filed March 17, 1933. Serial No. 335,790. PUBLISHED MAY 23, 1933. Class 3.

305,169. CEREAL FOOD PRODUCTS — NAMELY, WHEAT BREAKFAST FOODS AND TOASTED WHEAT FLAKES. HECKER-H-O COMPANY, INC., Buffalo, N. Y.
Filed March 18, 1933. Serial No. 335,819. PUBLISHED MAY 23, 1933. Class 46.

305,170. CEREAL FOOD PRODUCTS — NAMELY, WHEAT BREAKFAST FOODS AND TOASTED WHEAT FLAKES. HECKER-H-O COMPANY, INC., Buffalo, N. Y.
Filed March 18, 1933. Serial No. 335,818. PUBLISHED MAY 23, 1933. Class 46.

305,171. CEREAL FOOD PRODUCTS — NAMELY, WHEAT BREAKFAST FOODS AND TOASTED WHEAT FLAKES. HECKER-H-O COMPANY, INC., Buffalo, N. Y.
Filed March 18, 1933. Serial No. 335,820. PUBLISHED MAY 23, 1933. Class 46.

305,172. CEREAL FOOD PRODUCTS—NAMELY, WHEAT BREAKFAST FOODS AND TOASTED WHEAT FLAKES. HECKER-H-O COMPANY, INC., Buffalo, N. Y.
Filed March 18, 1933. Serial No. 335,821. PUBLISHED MAY 23, 1933. Class 46.

305,173. COTTON PIECE GOODS. M. C. D. BORDEN & SONS, INC., New York, N. Y.
Filed April 6, 1933. Serial No. 336,402. PUBLISHED MAY 16, 1933. Class 42.

305,174. ASBESTOS STEAM PIPE COVERING, COMPRISING A WOVEN ASBESTOS SHEATH AND AN ASBESTOS FIBER FILLER. UNION ASBESTOS & RUBBER COMPANY, Chicago, Ill.
Filed April 5, 1933. Serial No. 336,471. PUBLISHED MAY 23, 1933. Class 12.

305,175. JIG-SAW PUZZLE. THE READ PRINTING COMPANY, New York, N. Y.
Filed April 5, 1933. Serial No. 336,455. PUBLISHED MAY 23, 1933. Class 22.

305,176. ROASTED AND SALTED PISTACHIO NUTS. AMERICAN PISTACHIO INC., New York, N. Y.
Filed April 5, 1933. Serial No. 336,416. PUBLISHED MAY 23, 1933. Class 46.

305,177. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT, AND EXTRACTS AND SYRUPS THEREFOR. J. L. HOERBER BREWING CO., Chicago, Ill.
Filed April 1, 1933. Serial No. 336,415. PUBLISHED MAY 23, 1933. Class 48.

305,178. COW MANURE BASE, A BIOLOGICAL, PHYSICAL, AND CHEMICAL SOIL IMPROVER. WALKER-GORDON LABORATORY COMPANY, INC., New York, N. Y.
Filed April 4, 1933. Serial No. 336,412. PUBLISHED MAY 23, 1933. Class 10.

305,179. PICTURE AND JIG-SAW PUZZLES. TICHNOR BROTHERS, INC., Cambridge, Mass.
Filed April 4, 1933. Serial No. 336,409. PUBLISHED MAY 23, 1933. Class 22.

305,180. SAFETY RAZORS AND SAFETY RAZOR BLADES. AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y.
Filed April 4, 1933. Serial No. 336,388. PUBLISHED MAY 23, 1933. Class 23.

305,181. CANNED VEGETABLES. PENNSYLVANIA GROCERS ASSOCIATION, Philadelphia, Pa.
Filed April 3, 1933. Serial No. 336,370. PUBLISHED MAY 23, 1933. Class 46.

305,182. CONFECTIONERY—NAMELY, CHOCOLATES AND CANDY. CRAILO SWEETS, INCORPORATED, Brooklyn, N. Y.
Filed April 3, 1933. Serial No. 336,350. PUBLISHED MAY 23, 1933. Class 46.

305,183. CARPET SWEEPERS AND PARTS THEREOF. BISSELL CARPET SWEEPER CO., Grand Rapids, Mich.
Filed April 3, 1933. Serial No. 336,346. PUBLISHED MAY 23, 1933. Class 23.

305,184. PICTURE AND JIG-SAW PUZZLES. TICHNOR BROTHERS, INC., Cambridge, Mass.
Filed April 1, 1933. Serial No. 336,338. PUBLISHED MAY 23, 1933. Class 22.

305,185. TYPE METALS. NASSAU SMELTING AND REFINING COMPANY, New York, N. Y.
Filed April 1, 1933. Serial No. 336,331. PUBLISHED MAY 23, 1933. Class 14.

305,186. SMOKING TOBACCO. THE AXTON-FISHER TOBACCO CO., Louisville, Ky.
Filed April 1, 1933. Serial No. 336,315. PUBLISHED MAY 23, 1933. Class 17.

305,187. CHEESE. JOHN MORRELL & CO., Ottumwa, Iowa.
Filed March 31, 1933. Serial No. 336,293. PUBLISHED MAY 23, 1933. Class 46.

305,188. BITUMINOUS EMULSIONS AND EMULSION COMPOUNDS FOR USE AS PROTECTIVE COATINGS. THE FLINTKOTE CORPORATION, New York, N. Y.
Filed March 31, 1933. Serial No. 336,267. PUBLISHED MAY 23, 1933. Class 12.

305,189. WHISKY. THOMAS C. DENNEHY, doing business as Clear Spring Distilling Co., Chicago, Ill.
Filed March 31, 1933. Serial No. 336,264. PUBLISHED MAY 23, 1933. Class 49.

305,190. BREAD (RYE BREAD AND PUMPERNICKEL). GEO. F. STUHMER & COMPANY, Brooklyn and New York, N. Y.
Filed March 30, 1933. Serial No. 336,236. PUBLISHED MAY 23, 1933. Class 46.

305,191. WINES. H. SICHEL SÖHNE, Mainz, Germany.
Filed March 30, 1933. Serial No. 336,233. PUBLISHED MAY 23, 1933. Class 47.

305,192. WINES. H. SICHEL SÖHNE, Mainz, Germany.
Filed March 30, 1933. Serial No. 336,232. PUBLISHED MAY 23, 1933. Class 47.

305,193. OLEOMARGARINE. JOHN F. JELKE COMPANY, Chicago, Ill.
Filed March 30, 1933. Serial No. 336,220. PUBLISHED MAY 23, 1933. Class 46.

305,194. DECK GAMES. GENERAL SPORTCRAFT CO., New York, N. Y.
Filed March 30, 1933. Serial No. 336,219. PUBLISHED MAY 23, 1933. Class 22.

305,195. WHISKEY. THE DUBLIN DISTILLERS COMPANY, LIMITED, Dublin, Ireland.
Filed March 30, 1933. Serial No. 336,218. PUBLISHED MAY 23, 1933. Class 49.

305,196. WINES. COMPAÑIA MATA UNION DE BODEGAS ANDALUZAS S. A., Malaga, Spain.
Filed March 30, 1933. Serial No. 336,214. PUBLISHED MAY 23, 1933. Class 47.

305,197. OLIVE OIL. FRANCESCO CAPPELLINO, Rochester, N. Y..
Filed March 30, 1933. Serial No. 336,213. PUBLISHED MAY 16, 1933. Class 46.

305,198. FOOD FOR FISH. ZENITH NOVELTY CO., INC., New York, N. Y.
Filed March 29, 1933. Serial No. 336,200. PUBLISHED MAY 16, 1933. Class 46.

305,199. GUMMED PAPER SLIPS ADAPTED FOR ATTACHMENT TO THE BACKS OF PLAYING CARDS TO INDICATE THE DISTRIBUTION OF PLAYING CARDS IN DUPLICATE BRIDGE. MACOMBER & INGRAHAM, INC., Boston, Mass.
Filed March 29, 1933. Serial No. 336,188. PUBLISHED MAY 23, 1933. Class 22.

305,200. MACARONI. D'AMICO MACARONI CO., INC., Newark, N. J.
Filed March 29, 1933. Serial No. 336,176. PUBLISHED MAY 16, 1933. Class 46.

305,201. NUMBER GAME PLAYED WITH BLOCKS OR PIECES. THE CLEVELAND GAMES COMPANY, Cleveland, Ohio.
Filed March 28, 1933. Serial No. 336,154. PUBLISHED MAY 23, 1933. Class 22.

305,202. SKIN CLEANSING CREAMS. SENDURT LABORATORIES, INC., Tulsa, Okla.
Filed March 27, 1933. Serial No. 336,134. PUBLISHED MAY 23, 1933. Class 6.

305,203. WINES—NAMELY, SHERRY, PORT, TOKAY, CLARET, BURGUNDY, RHINE WINE, CHAMPAGNE AND OTHER SPARKLING WINES. L. N. RENAULT & SONS, INC., Egg Harbor City, N. J.
Filed March 27, 1933. Serial No. 336,132. PUBLISHED MAY 23, 1933. Class 47.

305,204. NON-ALCOHOLIC, MALTLESS, CONCENTRATED EXTRACT OF FRUIT FOR MAKING SOFT DRINKS. S. SULLO EXTRACT COMPANY, Boston, Mass.
Filed March 20, 1933. Serial No. 335,895. PUBLISHED MAY 23, 1933. Class 45.

305,205. CHEMICAL PREPARATION FOR WASHING AND BLEACHING, WHICH IS ALSO USED AS A CLEANER, DEODORIZER, DISINFECTANT AND DRAIN PIPE SOLVENT. RAFFAELE D'ASTOLFO, doing business as Monday Light Chemical Company, Greenburg, Pa.
Filed March 21, 1933. Serial No. 335,930. PUBLISHED MAY 23, 1933. Class 6.

305,206. MIRRORS, MIRROR CABINETS, MIRROR VALANCES, AND MIRROR PICTURE FRAMES. FERDINAND H. BRANCKLEIN, doing business as Art Plate Glass & Mirror Works, Baltimore, Md.
Filed March 22, 1933. Serial No. 335,955. PUBLISHED MAY 23, 1933. Class 32.

305,207. SOLVENTS FOR USE IN OIL REFINING. CARBIDE AND CARBON CHEMICALS CORPORATION, New York, N. Y.
Filed March 23, 1933. Serial No. 335,990. PUBLISHED MAY 23, 1933. Class 6.

305,208. PAPER AND CARDBOARD CABINETS, CHESTS, AND BOXES. DECORATIVE CABINET CORP., Long Island City, N. Y.
Filed March 23, 1933. Serial No. 335,997. PUBLISHED MAY 23, 1933. Class 2.

305,209. PRINTING INK. MULTIGRAPH COMPANY, Wilmington, Del., and Cleveland, Ohio.
Filed March 24, 1933. Serial No. 336,047. PUBLISHED MAY 23, 1933. Class 11.

305,210. WATER-PROOFED FABRICS. WILLIAM L. BARRELL CO. INC., New York, N. Y.
Filed March 25, 1933. Serial No. 336,069. PUBLISHED MAY 23, 1933. Class 50.

305,211. PERIODICALS, CATALOGUES, PRINTED BOOKS, BULLETINS, DIRECTORIES, AND PAMPHLETS. MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge, Mass.
Filed March 27, 1933. Serial No. 336,126. PUBLISHED MAY 16, 1933. Class 38.

305,212. NON-ALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS. PACIFIC BEVERAGE CO., San Diego, Calif.
Filed March 27, 1933. Serial No. 336,128. PUBLISHED MAY 23, 1933. Class 45.

305,213. CANNED OR BOTTLED TOMATO JUICE, TOMATO JUICE COCKTAIL, TOMATO CATSUP, PORK AND BEANS, RED BEANS, TOMATO PURÉE, HOMINY, SAUERKRAUT, PUMPKIN, GREEN BEANS, KIDNEY BEANS, TOMATOES, AND TOMATO SOUP. VINCENNES PACKING CORPORATION, Vincennes, Ind.
Filed November 10, 1932. Serial No. 332,052. PUBLISHED MAY 23, 1933. Class 46.

305,214. CHILI SAUCE. CURTICE BROTHERS CO., Rochester, N. Y.
Filed November 22, 1932. Serial No. 332,367. PUBLISHED MAY 23, 1933. Class 46.

305,215. PREPARED TOMATO JUICE. CURTICE BROTHERS CO., Rochester, N. Y.
Filed November 22, 1932. Serial No. 332,368. PUBLISHED MAY 23, 1933. Class 46.

305,216. FERTILIZERS. THOMAS WOOD & SONS, INC., Montclair, N. J.
Filed November 30, 1932. Serial No. 332,669. PUBLISHED MAY 9, 1933. Class 10.

305,217. PAPER CUPS. VORTEX CUP COMPANY, Chicago, Ill.
Filed March 18, 1933. Serial No. 335,839. PUBLISHED MAY 23, 1933. Class 2.

305,218. CARBON PAPER, TYPEWRITER RIBBONS, INKS—NAMELY, WRITING INKS, PRINTING INKS AND STAMP PAD INKS, DUPLICATOR RIBBONS AND STAMP PADS. THE AULT & WIBORG COMPANY, New York, N. Y
Filed March 20, 1933. Serial No. 335,843. PUBLISHED MAY 23, 1933. Class 11.

305,219. COMPOUNDS USED IN THE TREATMENT OF COAL TO MAKE IT DUSTLESS. THE COLUMBIA ALKALI CORPORATION, Barberton, Ohio.
Filed March 20, 1933. Serial No. 335,852. PUBLISHED MAY 23, 1933. Class 6.

305,220. NASAL BALM. R. SCHIFFMANN CO., Los Angeles, Calif.
Filed March 20, 1933. Serial No. 335,890. PUBLISHED MAY 23, 1933. Class 6.

305,221. LEATHER. J. GREENEBAUM TANNING COMPANY, Chicago, Ill., and Milwaukee, Wis.
Filed December 3, 1932. Serial No. 332,715. PUBLISHED MAY 23, 1933. Class 1.

305,222. LIGHT SENSITIVE PHOTOGRAPHIC PAPER. EASTMAN KODAK COMPANY, Rochester, N. Y.
Filed December 7, 1932. Serial No. 332,837. PUBLISHED MAY 23, 1933. Class 26.

305,223. LIGHT SENSITIVE PHOTOGRAPHIC PAPER. EASTMAN KODAK COMPANY, Rochester, N. Y.
Filed December 7, 1932. Serial No. 332,838. PUBLISHED MAY 23, 1933. Class 26.

305,224. SPECIALLY PREPARED SOYA BEAN FLOUR. AMERICAN SOYA PRODUCTS CORPORATION, Evansville, Ind.
Filed December 8, 1932. Serial No. 332,943. PUBLISHED MAY 16, 1933. Class 46.

305,225. CANDIES. CANDY PRODUCTS CORPORATION, Owosso, Mich.
Filed December 12, 1932. Serial No. 332,985. PUBLISHED MAY 16, 1933. Class 46.

305,226. RAYON PIECE GOODS. INDUSTRIAL RAYON CORPORATION, Cleveland, Ohio.
Filed May 7, 1932. Serial No. 326,860. PUBLISHED MAY 23, 1933. Class 42.

305,227. DETERGENTS AND SOAPS FOR TEXTILE FABRICS. DEUTSCHE HYDRIERWERKE, A.-G., Berlin-Charlottenburg, Germany.
Filed August 24, 1932. Serial No. 329,789. PUBLISHED MAY 23, 1933. Class 4.

305,228. CORROSION RESISTING ALLOYS AND CASTINGS MADE THEREFROM. LYNCHBURG FOUNDRY COMPANY, Lynchburg, Va.
Filed September 23, 1932. Serial No. 330,600. PUBLISHED MAY 23, 1933. Class 14.

305,229. DAIRY PRODUCTS—NAMELY, MILK, CREAM, AND CHEESE AND PARTICULARLY FOR SUCH PRODUCTS DISTRIBUTED IN PAPER RECEPTACLES. SILVER SEAL DAIRY PRODUCTS COMPANY, Philadelphia, Pa.
Filed September 17, 1932. Serial No. 330,434. PUBLISHED MAY 16, 1933. Class 46.

305,230. METALLIC FOIL FOR BUILDING PURPOSES. REYNOLDS METALS COMPANY, New York, N. Y.
Filed September 27, 1932. Serial No. 330,710. PUBLISHED MAY 16, 1933. Class 12.

305,231. GELATINE DESSERT—NAMELY, SOLUBLE FRUIT FLAVORED JELLY POWDERS. NICHOLAS BECHARAS, doing business as Becharas Brothers, Detroit, Mich.
Filed October 1, 1932. Serial No. 330,844. PUBLISHED MAY 23, 1933. Class 46.

305,232. MULTIPLE-KEY-OPERATED COMPUTING MACHINES, ALSO COMBINED COMPUTING AND TYPEWRITING MACHINES. UNDERWOOD ELLIOTT FISHER COMPANY, New York, N. Y.
Filed October 14, 1932. Serial No. 331,271. PUBLISHED MAY 23, 1933. Class 26.

305,233. PIPES. CONTINENTAL BRIAR PIPE CO., INC., Brooklyn, N. Y.
Filed October 27, 1932. Serial No. 331,612. PUBLISHED MAY 23, 1933. Class 8.

305,234. FOOD CHOPPERS, CYLINDRICAL FOOD CHOPPERS, ROTARY FOOD CHOPPERS, MEAT CHOPPERS, AND MEAT AND VEGETABLE CUTTERS. LANDERS, FRARY & CLARK, New Britain, Conn.
Filed November 3, 1932. Serial No. 331,866. PUBLISHED MAY 23, 1933. Class 23.

305,235. COKE. THE V. E. MONTGOMERY CO., Cincinnati, Ohio.
Filed February 3, 1933. Serial No. 334,614. PUBLISHED MAY 23, 1933. Class 1.

305,236. BOILERS AND WATER HEATERS USED FOR HEATING PLANTS. NATIONAL RADIATOR CORPORATION, Johnstown, Pa.
Filed January 28, 1933. Serial No. 334,441. PUBLISHED MAY 23, 1933. Class 34.

305,237. CIGARETTES. LARUS & BROTHER COMPANY, INCORPORATED, Richmond, Va.
Filed January 28, 1933. Serial No. 334,439. PUBLISHED MAY 23, 1933. Class 17.

305,238. CANNED FRUITS, CANNED VEGETABLES, OLIVE OIL, MACARONI. COMLY FLANIGEN COMPANY, Philadelphia, Pa.
Filed January 28, 1933. Serial No. 334,425. PUBLISHED MAY 16, 1933. Class 46.

305,239. PLUG TOBACCO AND CIGARETTES. LARUS & BROTHER COMPANY, INCORPORATED, Richmond, Va.
Filed January 26, 1933. Serial No. 334,863. PUBLISHED MAY 23, 1933. Class 17.

305,240. WHISKEY. JOS. S. FINCH & COMPANY, New York, N. Y.
Filed January 21, 1933. Serial No. 334,214. PUBLISHED MAY 23, 1933. Class 49.

305,241. PAPER STRAWS. SODA STRAW MFG. CO., INC., Newark, N. J., assignor to Karl E. Garling.
Filed January 19, 1933. Serial No. 334,125. PUBLISHED MAY 23, 1933. Class 50.

305,242. MEN'S AND BOYS' PANTS, KNICKERS, RIDING BREECHES, AND COATS; WOMEN'S AND GIRLS' BEACH PANTS AND COATS OF PLAIN AND STRIPED COTTON CORDED MATERIALS. BERTHOLD LAMM, Baltimore, Md.
Filed January 13, 1933. Serial No. 333,908. PUBLISHED MAY 9, 1933. Class 39.

305,243. TIMING GEARS. BORG-WARNER CORPORATION, Chicago, Ill.
Filed January 9, 1933. Serial No. 333,756. PUBLISHED MAY 23, 1933. Class 23.

305,244. FLAVORING EXTRACTS FOR FOODS. BAKER EXTRACT COMPANY, Springfield, Mass.
Filed January 5, 1933. Serial No. 333,661. PUBLISHED MAY 23, 1933. Class 46.

305,245. CORN COB PIPES. JAMES EDWARD COGLEY, doing business as The Mdse Mart, Sioux Falls, S. Dak.
Filed January 3, 1933. Serial No. 333,650. PUBLISHED MAY 23, 1933. Class 8.

305,246. BREAD, RAISIN BREAD, ROLLS, ETC. DUGAN BROTHERS OF NEW JERSEY, INC., Newark, N. J.
Filed December 27, 1932. Serial No. 333,384. PUBLISHED MAY 23, 1933. Class 46.

305,247. SILK PIECE GOODS. COHN HALL MARX CO., New York, N. Y.
Filed December 27, 1932. Serial No. 333,381. PUBLISHED MAY 23, 1933. Class 42.

305,248. PISTON PINS. THE SIMPLEX PISTON RING CO. OF AMERICA, INC., Cleveland, Ohio.
Filed December 16, 1932. Serial No. 333,130. PUBLISHED MAY 23, 1933. Class 23.

305,249. ICE CREAM CONTAINING YEAST. CHARLES RAY, doing business as Charles Ray Co., Woburn, Mass.
Filed December 12, 1932. Serial No. 333,011. PUBLISHED MAY 23, 1933. Class 46.

305,250. CORK SHEETS KNOWN AS CORK CARPETS. COYNE & PADDOCK INC., Long Island City, N. Y.
Filed February 4, 1933. Serial No. 334,683. PUBLISHED MAY 23, 1933. Class 50.

305,251. DIETETIC FOODS MADE FROM APPLES. KRAUSE MEDICO GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Munich, Germany.
Filed February 7, 1933. Serial No. 334,711. PUBLISHED MAY 16, 1933. Class 46.

305,252. BREAD (RYE BREAD AND PUMPERNICKEL.) GEO. F. STUHMER & COMPANY, Brooklyn, N. Y.
Filed February 8, 1933. Serial No. 334,777. PUBLISHED MAY 16, 1933. Class 46.

305,253. BREAD (RYE BREAD AND PUMPERNICKEL.) GEO. F. STUHMER & COMPANY, Brooklyn, N. Y.
Filed February 8, 1933. Serial No. 334,778. PUBLISHED MAY 16, 1933. Class 46.

305,254. CANNED FISH. AKTIEBOLAGET SVERIGES FÖRENADE KONSERVFABRIKER, Gottenborg, Sweden.
Filed February 11, 1933. Serial No. 334,857. PUBLISHED MAY 23, 1933. Class 46.

305,255. CIGARS. MASTERPIECE CIGAR COMPANY, Grand Rapids, Mich.
Filed April 7, 1933. Serial No. 336,537. PUBLISHED MAY 23, 1933. Class 17.

305,256. MOUTH WASH. CHARLES LEON GARAHAN, doing business as Glengarry Laboratory, New York, N. Y.
Filed April 8, 1933. Serial No. 336,563. PUBLISHED MAY 23, 1933. Class 6.

305,257. SMOKING TOBACCO. LARUS & BROTHER COMPANY, INCORPORATED, Richmond, Va.
Filed April 8, 1933. Serial No. 336,594. PUBLISHED MAY 23, 1933. Class 17.

305,258. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. ELIZABETH BREWING CORPORATION, Elizabeth, N. J.
Filed April 10, 1933. Serial No. 336,603. PUBLISHED MAY 23, 1933. Class 48.

305,259. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. ELIZABETH BREWING CORPORATION, Elizabeth, N. J.
Filed April 10, 1933. Serial No. 336,604. PUBLISHED MAY 23, 1933. Class 48.

305,260. DISTILLED LIQUORS. GAUTIER FRÈRES, Aigre, France.
Filed April 10, 1933. Serial No. 336,607. PUBLISHED MAY 23, 1933. Class 49.

305,261. UTILITY CLOTHS, NOT CHEMICALLY TREATED, USED FOR POLISHING, AND FENDER BRUSHES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed April 10, 1933. Serial No. 336,624. PUBLISHED MAY 23, 1933. Class 29.

305,262. CIGARETTES. THE FORTUNE TOBACCO COMPANY, New York, N. Y.
Filed April 12, 1933. Serial No. 336,674. PUBLISHED MAY 23, 1933. Class 17.

305,263. FERTILIZER. J. OLIVER JOHNSON, INC., Chicago, Ill.
Filed April 12, 1933. Serial No. 336,681. PUBLISHED MAY 23, 1933. Class 10.

305,264. SHAVING CREAM. SAMUEL L. C. LEE, San Francisco, Calif.
Filed April 12, 1933. Serial No. 336,683. PUBLISHED MAY 23, 1933. Class 4.

305,265. PRINTING INK. THE AULT & WIBORG COMPANY, New York, N. Y.
Filed April 13, 1933. Serial No. 336,707. PUBLISHED MAY 23, 1933. Class 11.

305,266. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. GARDEN CITY BREWERY, Chicago, Ill.
Filed April 13, 1933. Serial No. 336,716. PUBLISHED MAY 23, 1933. Class 48.

305,267. CIGARETTES, SMOKING TOBACCO, CHEWING TOBACCO, AND SNUFF. BROWN & WILLIAMSON TOBACCO CORPORATION, Louisville, Ky.
Filed April 14, 1933. Serial No. 336,750. PUBLISHED MAY 23, 1933. Class 17.

305,268. SMOKING AND CHEWING TOBACCO. BROWN & WILLIAMSON TOBACCO CORPORATION, Louisville, Ky.
Filed April 14, 1933. Serial No. 336,752. PUBLISHED MAY 23, 1933. Class 17.

305,269. SMOKING AND CHEWING TOBACCO. BROWN & WILLIAMSON TOBACCO CORPORATION, Louisville, Ky.
Filed April 14, 1933. Serial No. 336,753. PUBLISHED MAY 23, 1933. Class 17.

305,270. CIGARETTES, SMOKING TOBACCO, CHEWING TOBACCO, AND SNUFF. BROWN & WILLIAMSON TOBACCO CORPORATION, Louisville, Ky.
Filed April 14, 1933. Serial No. 336,754. PUBLISHED MAY 23, 1933. Class 17.

305,271. INDIA-RUBBER BALLS FOR GAMES, AND TENNIS BALLS. GEORGE SPENCER MOULTON & COMPANY, LIMITED, London, England.
Filed April 14, 1933. Serial No. 336,779. PUBLISHED MAY 23, 1933. Class 22.

305,272. FANS AND BLOWERS. B. F. STURTEVANT COMPANY, Boston, Mass.
Filed April 14, 1933. Serial No. 336,800. PUBLISHED MAY 23, 1933. Class 34.

305,273. CEREAL, MALT BEVERAGE HAVING NOT OVER THE LEGAL ALCOHOLIC CONTENT. ARGONAUT BOTTLING COMPANY, San Francisco, Calif.
Filed April 15, 1933. Serial No. 336,813. PUBLISHED MAY 23, 1933. Class 48.

305,274. FILET OF ANCHOVIES, OLIVES STUFFED, OLIVE OIL, AND ANTIPASTO. TONKIN DISTRIBUTING COMPANY, doing business as Jean Regalia et Cie, San Francisco, Calif.
Filed August 28, 1931. Serial No. 318,541. PUBLISHED MAY 23, 1933. Class 46.

305,275. SUGAR WAFERS. HOMOLKA CORPORATION, New York, N. Y., assignor to Vita Bran Corporation, New York, N. Y., a Corporation of New York.
Filed October 27, 1931. Serial No. 320,499. PUBLISHED MAY 16, 1933. Class 46.

305,276. BED SPREADS, HUCK TOWELS, TURKISH TOWELS, TABLE CLOTHS (LINEN AND COTTON), NAPKINS (LINEN AND COTTON), TEXTILE RUGS, TEXTILE BLANKETS, TEXTILE COMFORTS, LACE CURTAINS. MORTON H. GOLDENBERG, doing business as "Goldenberg's", Washington, D. C.
Filed December 14, 1928. Serial No. 276,690. PUBLISHED MAY 23, 1933. Class 42.

305,277. METAL WATER CRAFT—NAMELY, SMALL POWER BOATS AND ROWBOATS. ROY A. ERSKINE, Cleveland, Ohio.
Filed January 26, 1929. Serial No. 278,465. PUBLISHED MAY 23, 1933. Class 19.

305,278. NONALCOHOLIC GRAPE SYRUP USED IN MAKING SOFT DRINKS. L. M. MARTINI GRAPE PRODUCTS CO., Kingsburg, Calif.
Filed April 22, 1930. Serial No. 299,273. PUBLISHED MAY 26, 1931. Class 45.

305,279. COSMETICS, HAIR POMADE, ETC. VIVIAN S. NASH, doing business as Mme. Vivian Laboratories, Detroit, Mich.
Filed August 28, 1930. Serial No. 305,118. PUBLISHED MAY 23, 1933. Class 6.

305,280. MINCE MEAT, JELLIES, JAMS AND APRICOT, CHERRY, PEACH, PINEAPPLE, RASPBERRY, AND STRAWBERRY PRESERVES. BESSER & COMPANY, Indianapolis, Ind.
Filed February 3, 1931. Serial No. 310,671. PUBLISHED MAY 16, 1933. Class 46.

305,281. CHINAWARE. SCHUMANN CHINA CORPORATION, New York, N. Y.
Filed April 28, 1931. Serial No. 313,938. PUBLISHED MAY 16, 1933. Class 30.

305,282. ICE CREAM. SAUL H. PERRY, doing business as Pickwick Ice Cream Company, Stamford, Conn.
Filed May 23, 1931. Serial No. 314,960. PUBLISHED JUNE 21, 1932. Class 46.

305,283. CANDIES. PEGGY GRAY HOLLIDAY, Buffalo, N. Y.
Filed June 10, 1931. Serial No. 315,636. PUBLISHED MAY 23, 1933. Class 46.

305,284. KALSOMINE. CHARLES BARBELL, Tampa, Fla.
Filed July 6, 1931. Serial No. 316,627. PUBLISHED JUNE 28, 1932. Class 16.

305,285. ASPHALT, ASPHALT BINDERS, ASPHALTIC EMULSIONS AND COMPOUNDS, BITUMINOUS EMULSIONS. AMERICAN BITUMULS COMPANY, Wilmington, Del., and San Francisco, Calif.
Filed April 2, 1932. Serial No. 325,740. PUBLISHED MAY 23, 1933. Class 12.

305,286. COTTON FABRICS, TOWELS, PILLOW CASES, SHEETS, BED SPREADS AND SHEETINGS. FRANKLIN TEXTILE CORPORATION, New York, N. Y.
Filed April 12, 1932. Serial No. 326,010. PUBLISHED MAY 16, 1933. Class 42.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

305,287. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RCA VICTOR COMPANY, INC., Camden, N. J. Filed May 27, 1933. Serial No. 338,290.

Bi-Acoustic

For Radio Receiving Sets, Kits for Radio Receiving Sets, Radio Receiving Sets Adapted for Combination with Electrically Operated Talking Machines, and Named Accessories and Parts Thereof.
Claims use since May 13, 1932.

305,288. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DICKINSON & CO., Chicago and Eureka, Ill. Filed May 22, 1933. Serial No. 338,080.

COUNTRY-PACK

For Canned Vegetables.
Claims use since 1908.

305,289. (CLASS 5. ADHESIVES.) J. WALLACE CANTER, New York, N. Y. Filed May 27, 1933. Serial No. 338,278.

HOLD-TITE

For Waterproof Cement Used as a Binder or Adhesive for Joining Materials Such as Metals, Leather, Cloth, Celluloid, Jewelry, Statuary, China, Glassware, Wood and the Like, or for Similar or Allied Purposes.
Claims use since Apr. 15, 1929.

305,290. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LEONARD B. KRICK, doing business as Mador, Inc., Chicago, Ill. Filed Jan. 18, 1933. Serial No. 334,063.

MADOR

For Brushless Shaving Cream and Skin Soap.
Claims use since July 1, 1932.

305,291. (CLASS 11. INKS AND INKING MATERIALS.) THE AULT & WIBORG COMPANY, New York, N. Y. Filed Feb. 13, 1933. Serial No. 334,902.

BEST TEST

For Carbon Paper and Typewriter Ribbons.
Claims use since March, 1925.

305,292. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WM. T. KNOTT COMPANY, INC., New York, N. Y. Filed June 21, 1932. Serial No. 328,176.

Jean Sutton

For Toiletries and Cosmetics—Namely, Cold Cream, Liquefying Cleansing Cream, Nourishing Cream, Skin Tonic, Astringent, Face Powder.
Claims use since May 23, 1932.

305,293. (CLASS 37. PAPER AND STATIONERY.) WELDON ROBERTS RUBBER CO., Newark, N. J. Filed Dec. 28, 1932. Serial No. 333,445.

Weldon Roberts Erasers
Correct Mistakes in Any Language

For Rubber Erasers.
Claims use since June, 1930.

305,294. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT LINDSEY, Homestead, Pa. Filed Nov. 7, 1930. Serial No. 307,626.

LINDSEY'S

For a Preparation Specially Recommended for Weak Manhood.
Claims use since Sept. 1, 1926.

305,295. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass.; and Hoboken, N. J. Filed June 17, 1932. Serial No. 328,053.

NUSTEEL

For Metal Fence Posts.
Claims use since Apr. 19, 1932.

TRADE-MARK REGISTRATIONS RENEWED

40,615. A FIREPROOFING OR FIRE-RESISTING PREPARATION. Registered June 16, 1903. WILLIAM B. PRICE, Frederick, Md. Renewed June 16, 1933, to Price Fire & Water Proofing Co., Poughkeepsie, N. Y., a Corporation of New York, successor.

40,691. CONFECTIONERY. Registered June 30, 1903. BORDEN'S CONDENSED MILK CO. Renewed June 30, 1933, to Borden's Milk Products Company, Inc., New York, N. Y., a Corporation of Delaware, assignee.

40,765. A COLIC AND KIDNEY CURE FOR MULES AND HORSES. Registered July 14, 1903. E. H. DUNLAP MFG. CO. Renewed July 14, 1933, to Dunlap Chemical Company, Como, Miss., a Corporation of Delaware, successor.

40,837. STOVES AND RANGES. Registered July 28, 1903. ANCHOR STOVE AND RANGE COMPANY, New Albany, Ind., a Corporation of Indiana. Renewed July 28, 1933.

40,841. TOOL STEEL. Registered July 28, 1903. CRUCIBLE STEEL COMPANY OF AMERICA, Jersey City, N. J., and New York, N. Y. Renewed July 28, 1933, to Crucible Steel Company of America, New York, N. Y., a Corporation of New Jersey.

40,889. GAMES PLAYED WITH CARDS. Registered August 11, 1903. PARKER BROTHERS, INC., Salem, Mass., a Corporation of Maine. Renewed August 11,1933.

40,988. BEER. Registered August 25, 1903. THE OSHKOSH BREWING CO., Oshkosh, Wis., a Corporation of Wisconsin. Renewed August 25, 1933.

41,082. SHOE-POLISH. Registered September 8, 1903. AMERICAN CHEMICAL MANUFACTURING & MINING CO., Rochester, N. Y. Renewed September 8, 1933, to 2 in-1-Shinola-Bixby Corporation, New York, N. Y., a Corporation of New Jersey, assignee.

41,374. SHOE-POLISH PASTE. Registered October 27, 1903. THE F. F. DALLEY CO. OF HAMILTON, LIMITED, Hamilton, Canada. Renewed October 27, 1933, to 2 in 1-Shinola-Bixby Corporation, New York, N. Y., a Corporation of New Jersey, assignee by mesne assignments.

41,375. STOVE-POLISH. Registered October 27, 1903. J. L. PRESCOTT & CO., New York, N. Y. Renewed October 27, 1933, to J. L. Prescott Company, Passaic, N. J., a Corporation of New Jersey, assignee.

41,402. CANNED FRUITS AND VEGETABLES. Registered November 3, 1903. W. R. ROACH & CO., Hart, Mich. Renewed November 3, 1933, to W. R. Roach & Co., Grand Rapids, Mich, a Corporation of Michigan.

41,487. PASTILS FOR TREATMENT OF MALADIES OF THE RESPIRATORY ORGANS. Registered November 17, 1903. HENRY CANONNE, Paris, France. Renewed November 17, 1933, to Pastival, Inc., New York, N, Y., a Corporation of New York, assignee by mesne assignments.

41,575. BEER, BARLEY-STOUT, ALE, AND BARLEY AND MALT EXTRACTS. Registered December 1, 1903. KEELEY BREWING COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed December 1, 1933.

41,614. CIGARETTES. Registered December 8, 1903. ABDULLA & COMPANY, LIMITED, London, England, a Corporation of Great Britain. Renewed December 8, 1933.

41,796. MOLDING OR PRINTING AND STARCH MACHINES. Registered December 29, 1903. CONFECTIONERS' MACHINERY AND MANUFACTURING COMPANY. Renewed December 29, 1933, to National Equipment Company, Springfield, Mass., a Corporation of Massachusetts, successor.

41,797. CONFECTIONERY COATING MACHINE. Registered December 29, 1903. CONFECTIONERS' MACHINERY AND MANUFACTURING COMPANY. Renewed December 29, 1933, to National Equipment Company, Springfield, Mass., a Corporation of Massachusetts, successor.

92,035. TEXTILE RUGS. Registered June 17, 1913. BEATTIE MANUFACTURING COMPANY, Little Falls, N. J., New York, N. Y., and Chicago, Ill. Renewed June 17, 1933, to Beattie Manufacturing Company, Little Falls, N. J., and New York, N. Y., a Corporation of New Jersey.

92,221. COTTON PIECE GOODS. Registered June 24, 1913. A. G. HYDE & SONS. Renewed June 24, 1933, to Fred Butterfield & Co., Inc., New York, N. Y., a Corporation of New York, assignee.

92,245. LIME. Registered June 24, 1913. MARBLEHEAD LIME COMPANY. Renewed June 24, 1933, to Marblehead Lime Company, Chicago, Ill., a Corporation of Delaware, assignee.

92,375. BLENDED COFFEE. Registered July 1, 1913. ST. LOUIS COFFEE & SPICE MILLS, St. Louis, Mo., a Corporation of Missouri. Renewed July 1, 1933.

92,385. CERTAIN MACHINERY, TOOLS, AND PARTS THEREOF. Registered July 8, 1913. THE AMERICAN MULTIGRAPH SALES COMPANY. Renewed July 8, 1933, to Multigraph Company, Cleveland, Ohio, a Corporation of Delaware, assignee.

92,386. CERTAIN MEASURING AND SCIENTIFIC APPLIANCES. Registered July 8, 1913. AMERICAN OPTICAL COMPANY, Southbridge, Mass., a Voluntary Association of Massachusetts. Renewed July 8, 1933.

92,387. CERTAIN CUTLERY, MACHINERY, TOOLS, AND PARTS THEREOF. Registered July 8, 1913. AMERICAN OPTICAL COMPANY, Southbridge, Mass., a Voluntary Association of Massachusetts. Renewed July 8, 1933.

92,390. RICE. Registered July 8, 1913. BEAUMONT RICE MILLS, Beaumont and El Campo, Tex. Renewed July 8, 1933 to Beaumont Rice Mills, Beaumont, Tex., a Corporation of Texas, successor.

92,460. CHAMPAGNE AND SPARKLING WINES. Registered July 8, 1913. LSE. POMMERY, FILS & CIE. Renewed July 8, 1933, to Societe Anonyme Champagne Pommery & Greno, Reims, France, a Corporation of France, successor.

92,462. CHAMPAGNE AND SPARKLING WINES. Registered July 8, 1913. LSE. POMMERY, FILS & CIE. Renewed July 8, 1933, to Societe Anonyme Champagne Pommery & Greno, Reims, France, a Corporation of France, successor.

92,463. CHAMPAGNE AND SPARKLING WINES. Registered July 3, 1913. LSE. POMMERY, FILS & CIE. Renewed July 8, 1933, to Societe Anonyme Champagne Pommery & Greno, Reims, France, a Corporation of France, successor.

92,509. RICE. Registered July 15, 1913. BEAUMONT RICE MILLS, Beaumont and El Campo, Tex. Renewed July 15, 1933, to Beaumont Rice Mills, Beaumont, Tex., a Corporation of Texas, successor.

92,686. AN INSECT-KILLER. Registered July 22, 1913. KNOCK 'EM DEAD CO. Renewed July 22, 1933, to Knock 'Em Dead Company, Jersey City, N. J., a Corporation of Delaware, successor.

92,718. A NON-ALCOHOLIC TONIC MALT BEVERAGE. Registered July 22, 1913. JOSEPH E. ROSENFELD, Council Bluffs, Iowa. Renewed July 22, 1933.

92,835. TALCUM POWDER. Registered July 29, 1913. THOMAS M. SAYMAN, St. Louis, Mo. Renewed July 29, 1933.

92,837. A REMEDY FOR RHEUMATISM AND NEURALGIA. Registered July 29, 1913. DR. JOHN H. SPENCER, doing business as Dr. J. H. Spencer Co., Vicksburg, Miss. Renewed July 29, 1933.

92,881. PACKING MADE FROM CHEMICALLY-PREPARED PAPER. Registered August 5, 1913. ENDURA MANUFACTURING CO., Philadelphia, Pa. Renewed August 5, 1933, to Endura Manufacturing Corporation, Quakerstown, Pa., a Corporation of Pennsylvania, assignee by mesne assignments.

92,935. CERTAIN NAMED RECEPTACLES. Registered August 12, 1913. AMERICAN CAN COMPANY, New York, N. Y., a Corporation of New Jersey. Renewed August 12, 1933.

93,118. CANNED SALMON. Registered August 19, 1913. GEORGE W. SANBORN & SON, Astoria, Oreg. Renewed August 19, 1933, to Alaska Pacific Salmon Corporation, Seattle, Wash., a Corporation of Delaware, assignee.

93,149. SAWS OF ALL KINDS. Registered August 26, 1913. E. C. ATKINS AND COMPANY, Indianapolis, Ind., a Corporation of Indiana. Renewed August 26, 1933.

93,205. WATCH-MOVEMENTS. Registered August 26, 1913. THE ROCKFORD WATCH CO. LTD., Rockford, Ill. Renewed August 26, 1933, to The Rockford Watch Co. Ltd., Elgin, Ill., a Corporation of Illinois.

93,452. A PREPARATION FOR PRESERVING WOOD. Registered September 16, 1913. LYSTER CHEMICAL CO., Lawrence, Mass. Renewed September 16, 1933, to Tennessee Eastman Corporation, Kingsport, Tenn., a Corporation of Virginia, assignee by mesne assignments.

93,472. COMPLEXION-POWDER. Registered September 16, 1913. THOMAS M. SAYMAN, St. Louis, Mo. Renewed September 16, 1933.

93,554. BLACKING FOR USE ON LEATHER. Registered September 23, 1913. NUBIAN MANUFACTURING COMPANY LIMITED, London, England, a Corporation of Great Britain. Renewed September 23, 1933.

93,658. SCREEN WIRE-CLOTH. Registered October 14, 1913. AMERICAN WIRE FABRICS COMPANY, Chicago, Ill., and Clinton, Iowa. Renewed October 14, 1933, to American Wire Fabrics Corporation, New York, N. Y., a Corporation of Delaware, assignee.

93,910. OLIVE-OIL. Registered October 21, 1913. ANTONIO ROSSANO, New York, N. Y. Renewed October 21, 1933, to Parisis J. Georgion, Boston, Mass., assignee by mesne assignments.

94,060. SPARK-PLUGS. Registered November 4, 1913. CHAMPION IGNITION CO. Renewed November 4, 1933, to A C Spark Plug Company, Flint, Mich., a Corporation of Michigan, by change of name.

94,126. CONCRETE CONSTRUCTIONS, STREET AND SIDEWALK PAVING AND WALLS. Registered November 4, 1913. ROBERT C. STUBBS. Renewed November 4, 1933, to Marie M. Stubbs, Dallas, Tex., assignee.

94,193. TOILET WATERS AND PERFUMES. Registered November 11, 1913. Melba Manufacturing Companying, Chicago, Ill. Renewed November 11, 1933, to Vadsco Sales Corporation, Long Island City, N. Y., a Corporation of New York, assignee by mesne assignments.

94,215. A NEWSPAPER-SECTION PUBLISHED PERIODICALLY. Registered November 11, 1913. STAR COMPANY. Renewed November 11, 1933, to King Features Syndicate, Inc., New York, N. Y., a Corporation of New York, assignee.

94,228. CARBON-REMOVER, ENGINE-CLEANSER, AND SOLVENT. Registered November 11, 1913. U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y., a Corporation of West Virginia. Renewed November 11, 1933.

94,282. CASEIN CALCIUM. Registered November 25, 1913. THE HOFFMANN-LA ROCHE CHEMICAL WORKS, New York, N. Y. Renewed November 25, 1933, to Hoffmann-La Roche, Inc., Nutley, N. J., a Corporation of New Jersey, assignee.

94,295. BEER. Registered November 25, 1913. WILLIAM MCEWAN & CO., LIMITED, Edinburgh, Scotland, a Corporation of Great Britain. Renewed November 25, 1933.

94,311. BISCUIT. Registered November 25, 1913. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed November 25, 1933, to National Biscuit Company, New York, N. Y., a Corporation of New Jersey.

94,313. BISCUIT. Registered November 25, 1913. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed November 25, 1933, to National Biscuit Company, New York, N. Y., a Corporation of New Jersey.

94,328. FILTERING-PAPERS. Registered November 25, 1913. CARL SCHLEICHER & SCHÜLL, Duren, Germany. Renewed November 25, 1933, to Carl Schleicher & Schull Co., New York, N. Y., a Corporation of Delaware, assignee.

94,336. PAPER BAGS. Registered November 25, 1913. THE UNION BAG AND PAPER COMPANY. Renewed November 25, 1933, to Union Bag & Paper Corporation, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey, by consolidation.

94,365. A GELATIN PREPARATION IN POWDERED FORM. Registered December 2, 1913. THE FRANK PURE FOOD CO., Milwaukee, Wis. Renewed December 2, 1933, to B. Heller & Company, Chicago, Ill., a Corporation of Illinois, assignee by mesne assignments.

94,408. FILTERING APPARATUS, REFRIGERATING SYSTEMS, AND FILTER MASSES OR MATERIAL FOR FILTER-PRESSES. Registered December 2, 1913. VULKAN-WERKE GESELLSCHAFT FÜR BRAUEREI-BEDARF M. B. H. Renewed December 2, 1933, to Vulkan-Werke Aktiengesellschaft für Brauereibedarf, Berlin, Germany, a Corporation of Germany, successor.

94,486. KNITTED, NETTED, AND WOVEN SHOULDER-SCARFS AND SHAWLS. Registered December 9, 1913. RICH-STIX DRY GOODS CO., St. Louis, Mo., a Corporation of Missouri. Renewed December 9, 1933.

94,497. LUBRICATING OILS AND GREASES, REFINED OIL, AND GASOLENE. Registered December 9, 1913. STANDARD OIL COMPANY, Richmond, Calif. Renewed December 9, 1933, to Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif., a Corporation of Delaware, assignee.

94,503. MINERAL WAX. Registered December 9, 1913. STROHMEYER & ARPE COMPANY, New York, N. Y., a Corporation of New York. Renewed December 9, 1933.

94,527. KNITTED FABRICS. Registered December 9, 1913. MARINETTE KNITTING MILLS, Marinette, Wis., a Corporation of Wisconsin. Renewed December 9, 1933.

94,563. A PREPARATION FOR BANISHING MOSQUITOS AND OTHER INSECTS. Registered December 16, 1913. RED ROSIN PRODUCTS CO., Montgomery, Ala. Renewed December 16, 1933, to Vacher-Green, Inc., New Orleans, La., a Corporation of Louisiana, assignee, by mesne assignments.

94,572. IRON AND STEEL SHEETS AND PLATES AND TIN AND TERNE PLATES. Registered December 23, 1913. AMERICAN SHEET AND TIN PLATE COMPANY, Pittsburgh, Pa., a Corporation of New Jersey. Renewed December 23, 1933.

94,573. SULFATE OF IRON. Registered December 23, 1913. THE AMERICAN STEEL & WIRE CO. OF NEW JERSEY, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass., and Hoboken, N. J. Renewed December 23, 1933, to The American Steel and Wire Company of New Jersey, Cleveland, Ohio, a Corporation of New Jersey. Renewed December 23, 1933.

94,632. CORSET-WAISTS. Registered December 23, 1913. "THE H & W COMPANY", Newark, N. J., a Corporation of New Jersey. Renewed December 23, 1933.

94,652. SPICES. Registered December 23, 1913. E. B. MILLAR & CO., Chicago, Ill., a Corporation of Illinois. Renewed December 23, 1933.

94,658. VARNISHES, WOOD FILLERS, STAINS, AND ENAMELS. Registered December 23, 1913. MOLLER & SCHUMANN CO., New York, N. Y. Renewed December 23, 1933, to Hilo Varnish Corporation, Brooklyn, N. Y., a Corporation of New York, successor.

94,671. PLAYING-CARDS. Registered December 23, 1913. RUSSELL PLAYING CARD CO., Milltown, N. J., and New York, N. Y. Renewed December 23, 1933, to The United States Playing Card Company, East Norwood, Cincinnati, Ohio, a Corporation of Ohio, assignee.

94,690. CERTAIN NAMED COTTON GOODS. Registered December 23, 1913. STONEWALL COTTON MILLS, Stonewall, Miss., a Corporation of Mississippi. Renewed December 23, 1933.

94,706. PERFUMERY. Registered December 23, 1913. GEORGE C. WILSON, Tyrone, Pa. Renewed December 23, 1933.

94,747. STILL STRAIGHT RED TABLE-WINE. Registered December 30, 1913. JOSEPH PETROCELLI & COMPANY. Renewed December 30, 1933, to Cellas', Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

94,924. NEGLIGEE SHIRTS. Registered January 13, 1914. NEW ERA MANUFACTURING CO. Renewed January 13, 1934, to New Era Shirt Company, St. Louis, Mo., a Corporation of Missouri, by change of name.

LABELS

REGISTERED AUGUST 8, 1933

42,495.—*Title:* BALTIMORE MARKETS—ORANGE PEKOE. For Tea. BALTIMORE MARKETS, INC., Philadelphia, Pa. Published June 8, 1933.

42,496.—*Title:* ZIPP-O. DIRT SLIPS WHEN ZIPP-O ZIPS. For Soap Compound. HOMER D. BODLEY and GRACE A. BODLEY, doing business as Zipp-O Soap Company, Canandaigua, N. Y. Published May 24, 1933.

42,497.—*Title:* CREAMERY BUTTER. For Creamery Butter. CAMPBELL PAPER BOX COMPANY, South Bend, Ind. Published April 21, 1933.

42,498.—*Title:* QUALITY BRAND CREAMERY BUTTER. For Creamery Butter. CAMPBELL PAPER BOX COMPANY, South Bend, Ind. Published April 21, 1933.

42,499.—*Title:* CREAMERY BUTTER. For Butter. CAMPBELL PAPER BOX COMPANY, South Bend, Ind. Published April 21, 1933.

42,500.—*Title:* MI-BEST CREAMERY BUTTER. For Creamery Butter. CAMPBELL PAPER BOX COMPANY, South Bend, Ind. Published April 21, 1933.

42,501.—*Title:* NUFAVOR CREAMERY BUTTER. For Creamery Butter. CAMPBELL PAPER BOX COMPANY, South Bend, Ind. Published April 21, 1933.

42,502.—*Title:* WORLD'S FAIR PILLOW OUTFIT—ARTICLE V. S. 80—DESIGN 2591. For Pillow Outfits. COLLINGBOURNE MILLS INC., doing business as Dexter, Virginia Snow Studios, Jap Silk Co., and Berkshire & Becket Silk Co., Elgin, Ill. Published May 22, 1933.

42,503.—*Title:* HONEY SCOTCH. For Honey Scotch Candy. J. N. COLLINS COMPANY, Philadelphia, Pa. Published May 6, 1933.

42,504.—*Title:* WALNETTOS. For Walnut-Flavored Candy. J. N. COLLINS COMPANY, Philadelphia, Pa. Published May 6, 1933.

42,505.—*Title:* FAMOUS MILWAUKEE PILSENER. For Beer. CREAM CITY BREWING COMPANY, Milwaukee, Wis. Published May 26, 1933.

42,506.—*Title:* OCA-LINE. For a Medicinal Preparation. D. F. DAVENPORT, doing business as The Davenport Company, Americus, Ga. Published January 19, 1933.

42,507.—*Title:* BIRD SEED. For Bird Seed. GALLOWAY LITHOGRAPHING CO., San Francisco, Calif. Published October 10, 1932.

42,508.—*Title:* GUNTHER'S BEER. For Beer. GUNTHER BREWING CO. INC., Baltimore, Md. Published July 3, 1933.

42,509.—*Title:* TEN JUNKET TABLETS. For Tablets for Making Perfect Milk Foods for Invalids and Children. CHR. HANSEN'S LABORATORY, INC., Little Falls, N. Y. Published March 7, 1933.

42,510.—*Title:* FOOD GUILD. For Stringless Beans. JORDAN STEVENS CO., doing business as Food Guild Stores, Minneapolis, Minn. Published February 21, 1933.

42,511.—*Title:* FOOD GUILD. For Asparagus Tips. JORDAN STEVENS CO., doing business as Food Guild Stores, Minneapolis, Minn. Published February 21, 1933.

42,512.—*Title:* TRUEWORTH. For Cocoa. K. B. CHOCOLATE COMPANY, Bay City, Mich. Published March 3, 1933.

42,513.—*Title:* THEO. KEMPE SHOE CORP. NEW YORK SMART FOOTWEAR. For Footwear. FRANK C. MEYER CO., INC., Brooklyn, N. Y. Published February 1, 1933.

42,514.—*Title:* MORRELL'S ALLRITE BRAND. For Shortening. JOHN MORRELL & Co., Ottumwa, Iowa. Published March 31, 1932.

42,515.—*Title:* BROWN SKIN BEAUTY FACE POWDER. For Face Powder. MORTON G. NEUMANN, doing business as Famous Products Company, Chicago, Ill. Published January 15, 1933.

42,516.—*Title:* REJUVENABIUM. For Hand Lotion for Bleaching and Nourishing the Skin. HARRIETTE EMILIE NIEMIEC, Chicago, Ill. Published May 1, 1933.

42,517.—*Title:* BROTHER BILL. For Butter. EMANUEL WILLIAM PHILLIPS, doing business as Phillips Cheese Company, San Antonio, Tex. Published February 21, 1933.

42,518.—*Title:* PROTEO BREAD FOR DIETS RESTRICTED IN STARCHES AND SUGARS. For Bread. PROTEO FOODS, INCORPORATED, Chicago, Ill. Published June 5, 1933.

42,519.—*Title:* MASTERPIECE. For Coffee. SCHOTTE COFFEE & SPICE MILLS, INC., Jackson, Miss. Published August 31, 1932.

42,520.—*Title:* SCRAM. For Aluminum and Household Cleanser. SCRAM LABORATORIES, INC., San Francisco, Calif. Published March 15, 1933.

42,521.—*Title:* PEN THE FOX. For Game. CLARENCE M. SEARS, doing business as Nu-Game Manufacturing Company, Shelton, Conn. Published July 15, 1933.

42,522.—*Title:* JIG SILHOUETTE. For Puzzles. JOSEPH SHAPIRO CO., INC., Philadelphia, Pa. Published March 8, 1933.

42,523.—*Title:* GUARANTEED BEST QUALITY POULTRY. For Poultry. A. R. ST. CLAIR, Denver, Colo. Published March 16, 1933.

42,524.—*Title:* SUPER BLUE BLADE. For Razor Blades. SUPER BLADE CORPORATION, Boston, Mass. Published May 18, 1933.

42,525.—*Title:* WASHBURN CONCORDS. For Grapes. WASHBURN GRAPE GROWERS ASS'N, Washburn, Mo. Published May 1, 1933.

42,526.—*Title:* THREE MELON BRAND. For Cantaloup Melons. C. H. WEAVER & Co., Chicago, Ill. Published May 9, 1933.

42,527.—*Title:* SEA RAIDERS. For Chewing Gum. WORLD WIDE GUM CO., Boston, Mass. Published May 18, 1933.

PRINTS

REGISTERED AUGUST 8, 1933

14,294.—*Title:* LATTICED STEAK. For Two Minute Steak Machines. THE AMERICAN MINE DOOR COMPANY, Canton, Ohio. Published April 4, 1932.

14,295.—*Title:* BANG!-THEN I LOST ALL CONTROL OF MY CAR (AD NO. GBC-316). For Rubber Tires. THE B. F. GOODRICH RUBBER COMPANY, Akron, Ohio. Published July 10, 1933.

14,296.—*Title:* PRICE LIST OF TEAR GAS PROTECTIVE DEVICES. For Tear Gas Products and Devices. LACHRYITE COMPANY, Chicago, Ill. Published March 10, 1931.

REISSUES

AUGUST 8, 1933

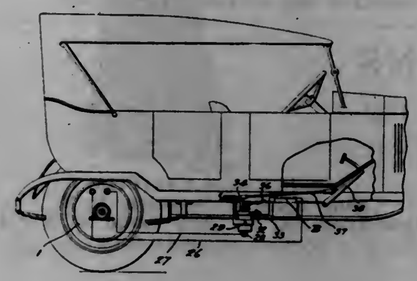
18,912

ELECTRIC BRAKE FOR AUTOMOBILES

Harold Johnson, Windom, and Lennie O. Aune, deceased, late of Windom, Minn., by Albert B. Welles, assignee, Minneapolis, Minn., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois

Original No. 1,691,812, dated November 13, 1928, Serial No. 228,906, October 26, 1927. Application for reissue June 19, 1930. Serial No. 462,386

9 Claims. (Cl. 188—163)



1. A brake of the class described comprising a pair of shoes for engaging the part to be braked, magnetic means comprising an upper coil and a lower coil and an armature connected with the lower coil and passing into the upper coil, adjustable means for causing the movement of the lower coil to press the shoes against the said part, a circuit for the two coils, a switch, including an operating arm, in the circuit, manually operated means for operating the switch, such means comcomprising a pedal, a link connecting the pedal to the switch arm and said switch comprising a casing, a plurality of pieces of carbon therein and a switch arm having a part engaging the pieces for pressing them together when the pedal is depressed.

18,913

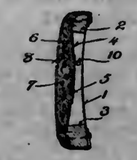
CHAIR BACK OR REST

Walter J. Johnson, Evanston, and Arthur L. Johnson, Oak Park, Ill.

Original No. 1,769,294, dated July 1, 1930, Serial No. 205,701, July 14, 1927. Application for reissue May 5, 1932. Serial No. 609,542

3 Claims. (Cl. 155—157)

3. The combination of a chair having a seat, a support fastened to the underside of the seat, upright supporting means fastened to the support by a pivot beneath the seat whereby the supporting means is pivotally mounted in respect to the seat and yieldingly mounted relative to the seat so as to yield rearwardly with respect to said seat, and a lumbar back rest pivoted about a horizontal axis and connected to the upright supporting means, said back rest being free to pivot on its axis in a vertical arc on each side of a plane perpendicular to the seat whereby to provide a floating back for said chair adapted to



support the back of a person sitting in said chair in all sitting postures.

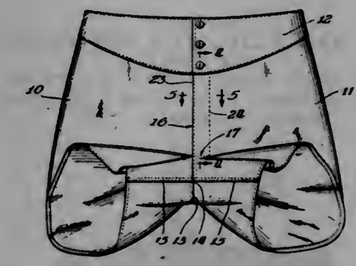
18,914

MAN'S UNDERWEAR

Joseph K. Heyman, Chicago, Ill., and Alfred F. Wenzel, Michigan City, Ind., assignors to Reliance Manufacturing Company, Chicago, Ill., a Corporation of Illinois

Original No. 1,845,749, dated February 16, 1932, Serial No. 550,056, July 11, 1931. Application for reissue December 30, 1932. Serial No. 649,540

3 Claims. (Cl. 2—224)

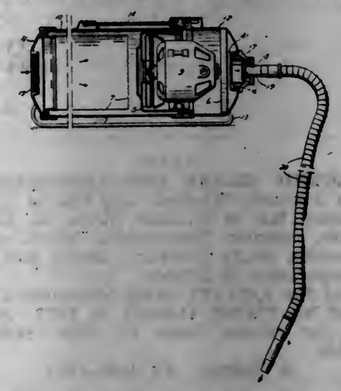


1. In a pair of pants, the combination of right hand and left hand pieces of material shaped to form a trunk and legs, each of said pieces having a portion of its opposite edges secured together to form the legs, and the adjacent edges of said pieces being secured together along a line extending from the crotch up the back of the pants to form the trunk, with means for detachably securing the adjacent front edges of the right hand and left hand pieces together, a facing strip for said adjacent front edges comprising a continuous piece of material extending down one of said adjacent front edges and secured thereto and folded up at the bottom of the fly and extending up the other of said adjacent front edges and secured thereto, whereby ripping of the seam at the base of the fly is prevented, said facing strip comprising a piece folded back on itself to form a double layer, and said strip having a transverse line of stitching at the base of the fly and the strip overlying the inner side of the fly and

having both edges stitched to that portion of the pants forming the inner side of the fly to resist ripping by diagonal strains.

18,915
VACUUM CLEANER
Lars Ell, Stockholm, Sweden, assignor, by mesne assignments, to Electrolux Corporation, a Corporation of Delaware
Original No. 1,842,900, dated January 26, 1932, Serial No. 432,185, application February 28, 1930, and in Germany May 16, 1929. Application for reissue November 3, 1932. Serial No. 641,070
13 Claims. (Cl. 167—3)

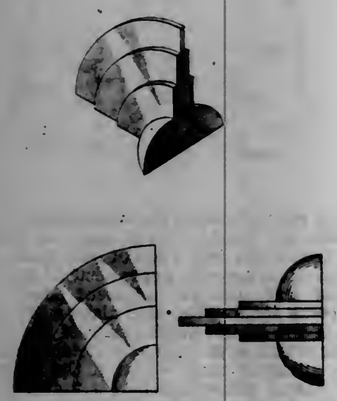
10. In a vacuum cleaner, a receptacle containing insecticide of the class comprising para-dichlorobenzol and para-dibromobenzol crystals, means for mounting said receptacle so that said receptacle is entirely within said cleaner, an air vane in said receptacle causing the air to whirl in the receptacle and to agitate the insecticide therein, means for passing an air stream therethrough, and means for heating said stream before applying the same to said receptacle whereby the vaporization of said crystals is accelerated.



DESIGNS

AUGUST 8, 1933

90,432
DESIGN FOR A BOOK END
Robert D. Barrett, New York, N. Y.
Application May 23, 1933. Serial No. 48,196
Term of patent 7 years



The ornamental design for a book end, substantially as shown.

90,433
DESIGN FOR A BOTTLE
Louis Borokoff, Brooklyn, N. Y.
Application May 26, 1932. Serial No. 43,924
Term of patent 14 years



The ornamental design for a bottle, as shown.

90,434
DESIGN FOR A DRESS
Johnnye Lee Caston, Chicago, Ill., assignor to The Sterling Company, Chicago, Ill., a Corporation of West Virginia
Application July 1, 1933. Serial No. 48,616
Term of patent 3½ years



The ornamental design for a dress as shown.

90,435
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Marcel Christen, Woodside, N. Y., assignor to Goldstein - Wilkins Corporation, New York, N. Y.
Application July 10, 1933. Serial No. 48,673
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown.

90,436
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Sylvain Casson, New York, N. Y., assignor to Goldstein - Wilkins Corporation, New York, N. Y.
Application June 27, 1933. Serial No. 48,552
Term of patent 3½ years



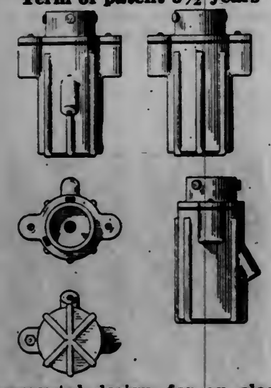
The ornamental design for a textile fabric or similar article as shown.

90,437
DESIGN FOR A TEXTILE FABRIC OR THE LIKE
Robert E. Fatherley, Darien, Conn.
Application June 20, 1933. Serial No. 48,465
Term of patent 3½ years



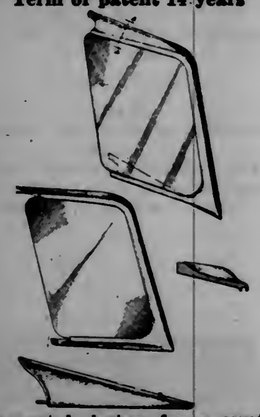
The ornamental design for a textile fabric or the like as shown and described.

90,438
DESIGN FOR AN ELECTRIC WATER HEATER OR THE LIKE
Irving Florman, New York, N. Y.
Application July 2, 1932. Serial No. 44,252
Term of patent 3½ years



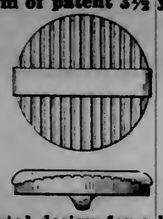
The ornamental design for an electric water heater or the like as shown.

90,439
DESIGN FOR A VENTILATOR FOR MOTOR VEHICLE WINDOW
Joseph J. Foley, Chicago, Ill.
Application May 26, 1933. Serial No. 48,219
Term of patent 14 years



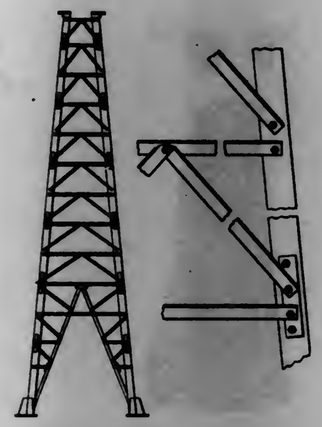
The ornamental design for a ventilator for motor vehicle window substantially as shown and described.

90,440
DESIGN FOR A BUTTON
William F. Haas, Rockaway, Long Island, N. Y.
Application June 15, 1933. Serial No. 48,416
Term of patent 3½ years



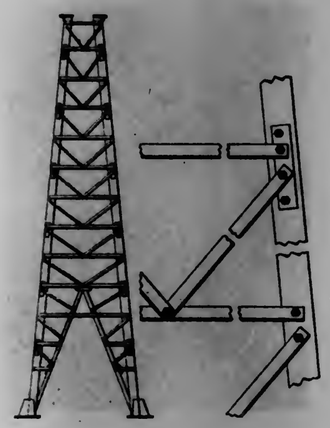
The ornamental design for a button, as shown.

90,441
DESIGN FOR A DERRICK
Charles L. Henry, Pittsburgh, Pa., assignor to Lee C. Moore & Company, Inc., Pittsburgh, Pa., a Corporation of Pennsylvania
Application January 9, 1932. Serial No. 42,438
Term of patent 14 years



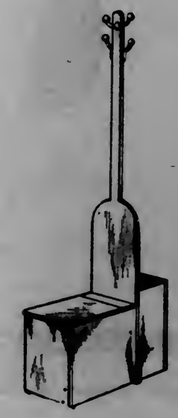
The ornamental design for a derrick, as shown and described.

90,442
DESIGN FOR A DERRICK
Charles L. Henry, Pittsburgh, Pa., assignor to Lee C. Moore & Company, Inc., Pittsburgh, Pa., a Corporation of Pennsylvania
Application April 26, 1932. Serial No. 43,612
Term of patent 14 years



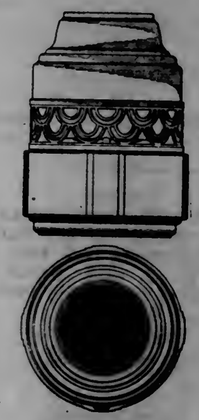
The ornamental design for a derrick, as shown and described.

90,443
DESIGN FOR A COMBINATION HALL TREE
Walter Reed Johnson, Suffern, N. Y.
Application April 25, 1933. Serial No. 47,897
Term of patent 3½ years



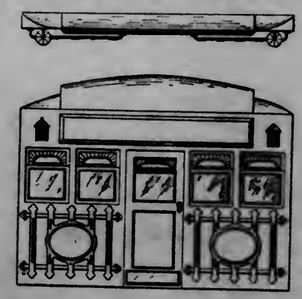
The ornamental design for a combination hall tree, as shown.

90,444
DESIGN FOR A PORTABLE HUMIDIFIER
Ralph E. Kruck, Springfield, and Paul E. Hochstetter, East Springfield, Mass., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania
Application June 2, 1933. Serial No. 48,264
Term of patent 7 years



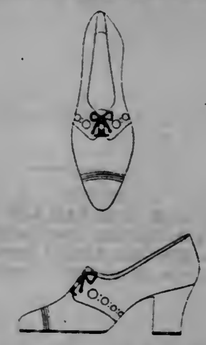
The ornamental design for a portable humidifier substantially as shown.

90,445
DESIGN FOR A STORE FRONT
Hugh J. McNeil, Reading, Mass.
Application May 6, 1933. Serial No. 48,027
Term of patent 3½ years



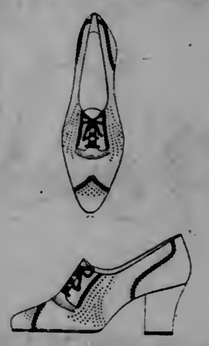
The ornamental design for a store front substantially as shown.

90,446
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,328
Term of patent 3½ years



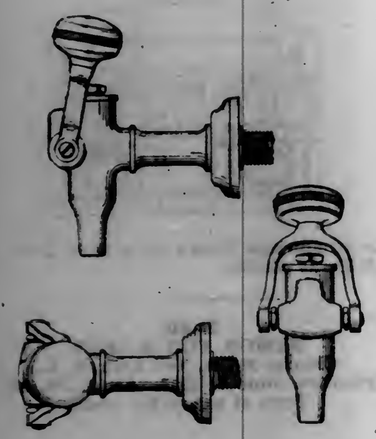
The ornamental design for a shoe, as shown.

90,447
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,341
Term of patent 3½ years



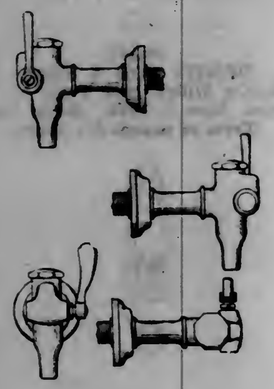
The ornamental design for a shoe, as shown.

90,448
DESIGN FOR A BEVERAGE FAUCET
Charles J. Muend, Philadelphia, Pa.
Application May 13, 1933. Serial No. 48,105
Term of patent 7 years



The ornamental design for a beverage faucet substantially as shown.

90,449
DESIGN FOR A BEVERAGE FAUCET
Charles J. Muend, Philadelphia, Pa.
Application May 13, 1933. Serial No. 48,106
Term of patent 7 years



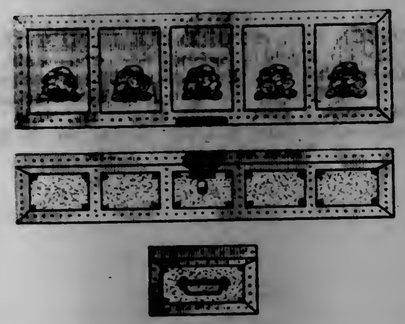
The ornamental design for a beverage faucet substantially as shown.

90,450
DESIGN FOR A SHOE SOLE
Laurence M. Oakley, Trenton, N. J.
Application May 31, 1933. Serial No. 48,249
Term of patent 7 years



The ornamental design for a shoe sole as shown.

90,451
DESIGN FOR A CIGARETTE CARTON
John J. Reinhold, Marietta, Pa.
Application May 3, 1933. Serial No. 47,984
Term of patent 14 years



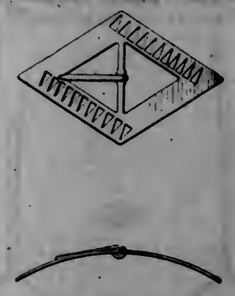
The ornamental design for a cigarette carton substantially as shown and described.

90,452
DESIGN FOR A MIRRORED GLASS BOW PIN FOR WEARING APPAREL
Joseph Rosenberg, New York, N. Y.
Application May 2, 1933. Serial No. 47,975
Term of patent 3½ years



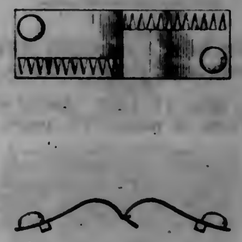
The ornamental design for a mirrored glass bow pin, for wearing apparel, substantially as shown.

90,453
DESIGN FOR A BUCKLE
Sidney Rosenthal, Cedarhurst, N. Y.
Application June 15, 1933. Serial No. 48,418
Term of patent 3½ years



The ornamental design for a buckle, as shown.

90,454
DESIGN FOR A CLASP
Sidney Rosenthal, Cedarhurst, N. Y.
Application June 15, 1933. Serial No. 48,419
Term of patent 3½ years



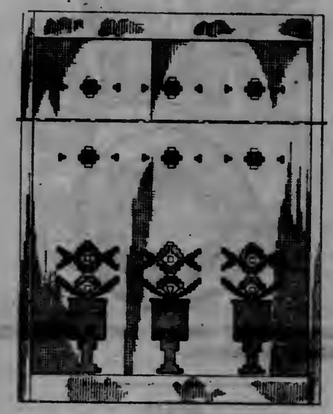
The ornamental design for a clasp, as shown.

90,455
DESIGN FOR AN ELECTRIC FIXTURE
Louis M. Rubin, Baltimore, Md.
Application May 1, 1933. Serial No. 47,946
Term of patent 3½ years



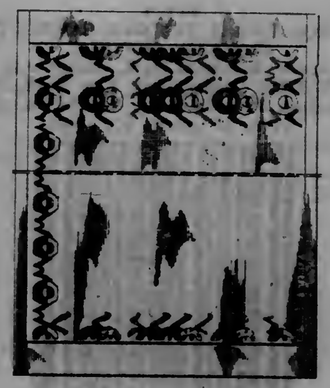
The ornamental design for an electric fixture as shown.

90,456
DESIGN FOR A CURTAIN OR THE LIKE
Max Sadinoff, Brooklyn, N. Y.
Application July 1, 1933. Serial No. 48,612
Term of patent 3½ years



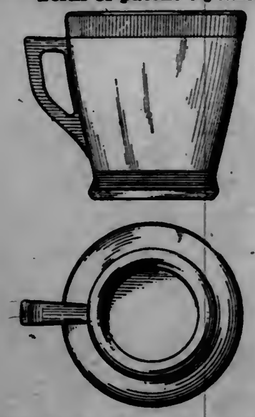
The ornamental design for a curtain or the like as shown, and described.

90,457
DESIGN FOR A DRAPERY OR THE LIKE
Max Sadinoff, Brooklyn, N. Y.
Application July 1, 1933. Serial No. 48,613
Term of patent 3½ years



The ornamental design for a drapery or the like as shown, and described.

90,458
DESIGN FOR A DRINKING CUP
Robert M. Schiller, Chicago, Ill.
Application December 15, 1932. Serial No. 46,466
Term of patent 7 years



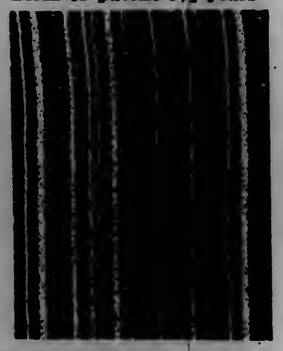
The ornamental design for a drinking cup, substantially as shown.

90,459
DESIGN FOR A BUTTON
Joseph Shadlowsky, Passaic Park, N. J.
Application June 15, 1933. Serial No. 48,420
Term of patent 3½ years



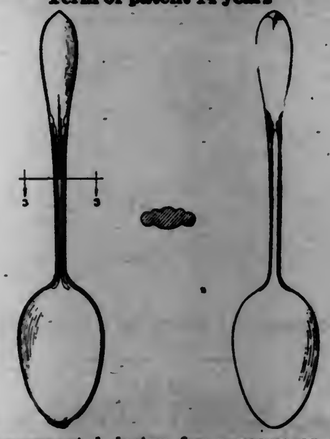
The ornamental design for a button as shown.

90,460
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Walter Speck, Haledon, N. J., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application June 28, 1933. Serial No. 48,564
Term of patent 3½ years



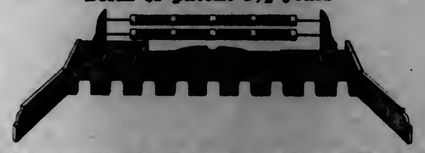
The ornamental design for a textile fabric or similar article as shown.

90,461
DESIGN FOR A SPOON OR SIMILAR ARTICLE
Axel H. Staf, Providence, R. I., assignor to Gorham Mfg. Co., Providence, R. I.
Application June 20, 1933. Serial No. 48,476
Term of patent 14 years



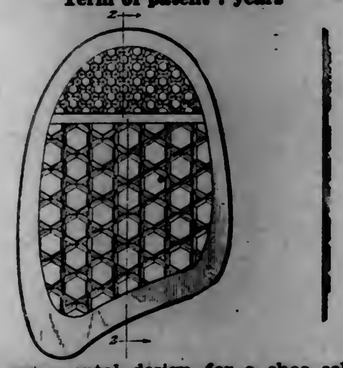
The ornamental design for a spoon or similar article as shown.

90,462
DESIGN FOR A GAMING DEVICE
John E. Tolman and Felix A. Subject, Yuba City, Calif.
Application May 12, 1933. Serial No. 48,094
Term of patent 3½ years



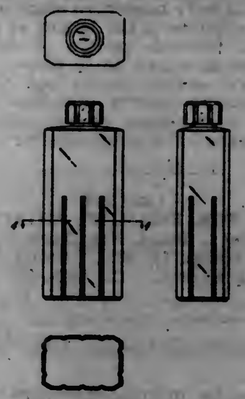
The ornamental design for a gaming device, as shown.

90,463
DESIGN FOR A SHOE SOLE
Paul Van Cleef, Chicago, Ill., assignor to Van Cleef Bros., Chicago, Ill., a partnership consisting of Noah Van Cleef, Felix Van Cleef, Maxime Van Cleef, and Paul Van Cleef
Application May 22, 1933. Serial No. 48,182
Term of patent 7 years



The ornamental design for a shoe sole substantially as shown.

90,464
DESIGN FOR A BOTTLE
Simon de Vaulchier, New York, N. Y., assignor to Godefroy Manufacturing Company, St. Louis, Mo.
Application May 7, 1932. Serial No. 43,741
Term of patent 14 years



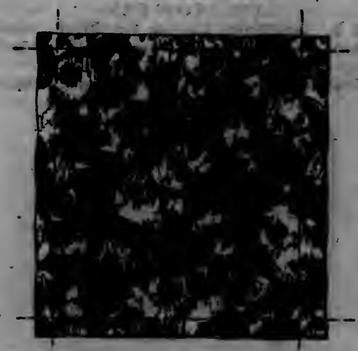
The ornamental design for a bottle, as shown.

90,465
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y.
Application January 4, 1933. Serial No. 46,705
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

90,466
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y.
Application January 16, 1933. Serial No. 46,943
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

90,467
DESIGN FOR AN ACETYLENE LAMP
James H. Horsley, Chicago, Ill., assignor to Shanklin Manufacturing Co., Springfield, Ill., a Corporation of Illinois
Application November 28, 1932. Serial No. 46,191
Term of patent 14 years

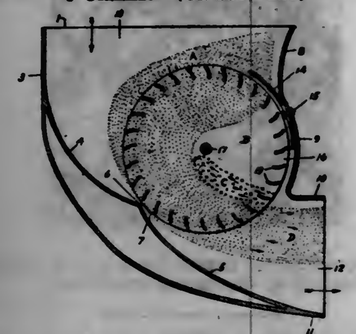


The ornamental design for an acetylene lamp substantially as shown.

PATENTS

GRANTED AUGUST 8, 1933

1,920,952
LINE FLOW FAN
Edward L. Anderson, Grosse Ile, Mich., assignor to American Blower Corporation, Detroit, Mich., a Corporation of Delaware
Application January 2, 1931. Serial 506,058
9 Claims. (Cl. 230—125)

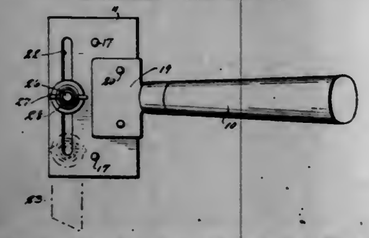


1. In combination, a line-flow fan, means to encase said fan so arranged as to guide air through one portion of said fan and means on said first means to redirect a portion of said air substantially radially into the fan to form a baffle to prevent the guided air from returning into that area within the fan through which it has not yet passed.

1,920,953
STAIN RESISTING WROUGHT ARTICLE
Frederick M. Becket, New York, N. Y., assignor to Electro Metallurgical Company, a Corporation of West Virginia
No Drawing. Application March 14, 1930
Serial No. 435,957
6 Claims. (Cl. 148—12)

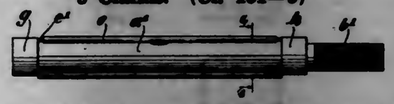
1. A stain-resisting article having properties imparted by deep-drawing and by cooling from a temperature between about 1050° C. and about 1150° C.; said article being composed of an alloy obtaining iron, chromium, manganese, and carbon; and said alloy having substantially the composition: 16% to 22% chromium, 6% to 14% manganese, not more than about 0.3% carbon, remainder iron.

1,920,954
COMBINATION FISH SCALER AND KNIFE
Austin A. Benedict, Merrill, Wis.
Application May 12, 1932. Serial No. 610,948
1 Claim. (Cl. 17—7)



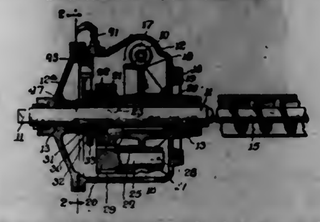
A combination tool comprising a handle, a scaling member mounted on the handle, said scaling member comprising a body plate and a plurality of angularly related toothed blades carried by said body, said body having an elongated slot extending transversely of the length of the handle and disposed between certain of said toothed blades, a smooth-edged blade disposed between certain of said toothed blades and held against turning movement thereby, and means engaging said smooth-edged blade and engaging in said slot to adjust the latter blade relative to the body.

1,920,955
DEVICE FOR FORMING CIGARETTES
Samuel L. Burri, New York, N. Y.
Application March 14, 1932. Serial No. 598,626
5 Claims. (Cl. 131—5)



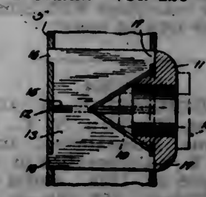
1. A device for forming cigarettes comprising an outer segmental tube, a similar segmental tube disposed therein and revoluble within the outer tube, a hinged cover to close the outer tube and complementary in shape to constitute therewith a substantially cylindrical casing, such casing being provided with a slit between the outer tube and the edge of the cover to receive the cigarette paper, means to revolve the inner tube when the cover is closed to form the cigarette, and means to engage the cigarette paper yieldingly during the rolling operation to maintain pressure thereon.

1,920,956
POWER TRANSMISSION MECHANISM
Warren Dean Burton, Goshen, Ind., assignor to Combustioneer, Inc., Goshen, Ind., a Corporation of Illinois
Application May 1, 1931. Serial No. 534,244
3 Claims. (Cl. 74—34)



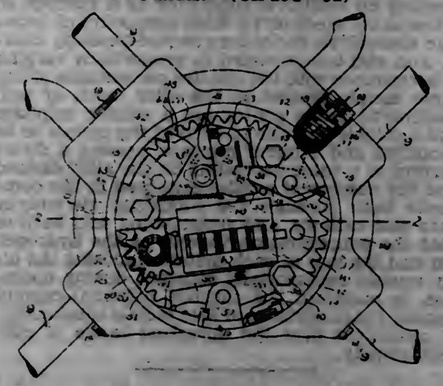
1. A power transmission device comprising, in combination, a drive shaft, a driven shaft, a pair of gears mounted on said driven shaft, one of said gears being fixed to and the other rotatable relative to said driven shaft, means connected with said drive shaft for moving said gears relatively to each other in opposite directions, a member movable between two positions, said relatively rotatable gear and said member having complementary surfaces thereon engageable in one of said positions to prevent rotation of said rotatable gear, said surfaces being angularly formed with respect to the direction in which said rotatable gear tends to rotate whereby to force said member to the other position thereof, a second member engaging said first member in either of said two positions, and resilient means engaging said second member to hold said second member in engagement with said first member and yieldingly to resist movement of said first member from one position to the other.

1,920,957
CRAYON SHARPENER
Louis Caccini, Columbus, Ohio
Application April 14, 1932. Serial No. 605,333
1 Claim. (Cl. 120—93)



A crayon sharpening device comprising a body portion having blades and having an opening opposite to the blades, a guide member having an extension fitted in the opening, a tubular member fitted in the extension and having a flange fitted against the body portion restricting inward movement of the tubular member within the body portion, the inner end of the body portion being beveled and fitted against the blades, and means for securing the blades within the body portion.

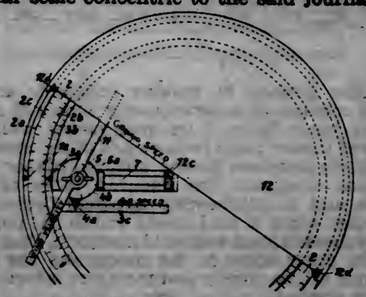
1,920,958
TURNSTILE
Frank L. Chapman, Rochester, N. Y.
Application January 31, 1930. Serial No. 424,969
12 Claims. (Cl. 194—61)



7. A turnstile comprising a standard, a turnstile head rotatable on the standard, and having an abutment for each station, a detent for engaging successively with said station abutments, an actuating member, said actuating member and said detent being constructed to receive a coin between them and the actuating member successively engaging such abutments for moving the detent away from detaining position.

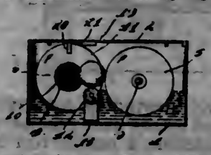
1,920,959
APPARATUS FOR ADJUSTING AIRCRAFT FOR A PREDETERMINED COURSE
Antonio Clementi, Vienna, Austria, assignor to the firm Actiengesellschaft C. P. Goerz Optische Anstalt Actiova spoločnost K. P. Goerz optický ústav, Bratislava, Czechoslovakia, a Company of Czechoslovakia
Application December 24, 1931, Serial No. 583,057, and in Italy January 3, 1931
1 Claim. (Cl. 33—76)

An apparatus for adjusting air crafts for a predetermined course in case of wind, comprising, in combination with a base plate, a scale ring rotatably mounted in the said base plate and provided with means for locking it in position, a scale disc concentric to and rotatably mounted in the said scale ring and provided with means for locking it in position in the said scale ring, there being a radial slot in the said scale disc and provided with a longitudinal scale, a slide guided in the said slot and provided with a pointer moving along the said longitudinal scale, a journal pin perpendicular to the said scale disc carried by the said slide and a circular scale concentric to the said journal pin,



a rule provided with a longitudinal scale rotatably mounted on the said journal pin with means for locking it in position, a gearing operatively connecting the said base plate with the said journal pin and rule for maintaining the said rule parallel to itself for all angular adjustments of base plate and scale disc and a scale diametrical of said base plate with pointers at its ends moving along a scale of the said scale ring and rotatably mounted on the said base plate, with means for clamping it in position, the scales of the said diametrical scale and the said rule being adapted to move along each other.

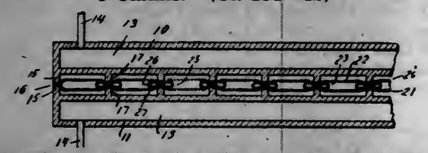
1,920,960
DEVICE FOR CLEANING GOLF BALLS OR THE LIKE
Stuart A. Cogsdill, Detroit, Mich., assignor to Cogsdill Manufacturing Company, Detroit, Mich., a Corporation of Michigan
Application November 26, 1928
Serial No. 321,948
3 Claims. (Cl. 15—97)



1. In a cleaning device for golf balls or the like, the combination with a receptacle adapted to contain a cleaning fluid, and a cover for the receptacle, of a rotatable scrubber within the receptacle for engaging the ball, a rotatable retainer within the receptacle for holding the ball in engagement with the scrubber and cooperating with the scrubber to rotate the ball, means for rotating the scrubber and retainer in corresponding directions, the cover being provided with an aperture for the passage therethrough of the ball to a position between the scrubber and retainer, and a member upon the cover adjacent to the aperture depending into said receptacle to form a deflector.

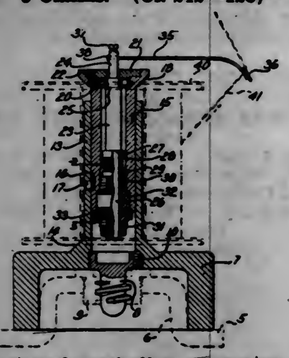
2. In a cleaning device for golf balls or the like, a scrubber having a sponge rubber body provided with a recessed periphery for engaging and conforming to the ball, and means arranged at opposite sides of the body for reinforcing the same.

1,920,961
METHOD OF MAKING INFLATABLE ARTICLES
Axel V. Anderson, Beacon, N. Y., assignor to New York Rubber Corporation, New York, N. Y., a Corporation of New York
Application December 20, 1929. Serial No. 415,381
5 Claims. (Cl. 154—42)



1. The method of making inflatable articles which consists of superimposing sheets of fabric having inner faces of uncured rubber with said uncured rubber faces facing each other, interposing fabric members having uncured rubber outer portions engaging the uncured faces of said sheets and simultaneously applying pressure to the outer edges of said sheets and to the portions of the sheets alined with said members, thus uniting the outer edges of the sheets and the other portions of the sheets and members where pressure is applied.

1,920,962
STRAND UNWINDING APPARATUS
Harold Peter Arkema, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York
Application May 27, 1929. Serial No. 366,126
5 Claims. (Cl. 242—128)

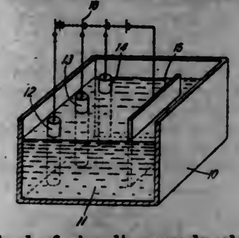


1. In a strand unwinding apparatus, a base, a sleeve supported by the base and having a tapered surface for centering a supply reel of the strand, and a plug with a tapered surface insertible in the sleeve for securing the supply reel thereto, the plug having a bayonet slot making engagement with a projecting pin of the sleeve to lock the plug therein.

1,920,963
PROCESS OF IMPROVING ALUMINUM AND ALLOYS THEREOF
Walter Bonsack, Cleveland, Ohio, assignor to The National Smelting Company, Cleveland, Ohio, a Corporation of Ohio
No Drawing. Application September 4, 1930, Serial No. 479,789. Renewed October 21, 1932
12 Claims. (Cl. 75—58)

1. The method of imparting improved physical and mechanical properties to aluminum and alloys thereof, which comprises melting the metal to be treated, alloying therewith a metal of an arbitrary class comprising calcium, magnesium, sodium, potassium, barium, strontium, lithium, thorium, and beryllium, and causing to come into intimate contact with said molten metal, a fused solution of a boron compound whose reaction with the metal of said arbitrary class produces more exothermic heat than the corresponding reaction with aluminum whereby rapid reaction resulting in the production of metallic boron may take place with consequent improvement of the treated metal.

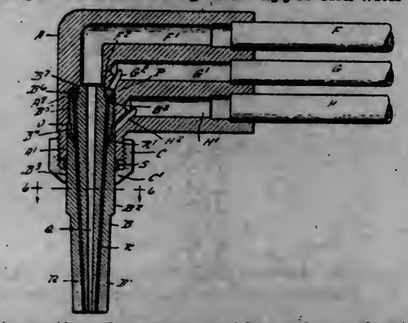
1,920,964
ELECTRODEPOSITION OF ALLOYS
Robert M. Burns, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application March 30, 1928. Serial No. 265,880
10 Claims. (Cl. 204—3)



1. A method of simultaneously electrodepositing nickel, iron and cobalt to form a magnetic alloy of uniform composition which comprises immersing an electrical conductor as a cathode in a composite electrolytic bath consisting of separate electrolytic baths for electrodepositing nickel, iron and cobalt mixed in proportions varying in accordance with the relative percentages of the three metals desired in the alloy, each of said electrolytic baths containing a soluble sulphate and a soluble chloride of each of the metals to be deposited and a buffer mixture, passing a direct current of a value depending on the alloy desired and the number of anodes employed in the composite bath through the composite electrolytic bath and cathode, and replenishing said bath so that the concentration therein of the hydrogen ion and the ions of each metal composing the alloy remain substantially constant during operation to maintain the cathode potential-current density characteristics of said metals substantially coincident over the operating range of current density.

1,920,965
BLOWPIPE
Lorn Campbell, Jr., Lakewood, Ohio
Application August 21, 1929. Serial No. 387,325
7 Claims. (Cl. 158—27.4)

1. A blowpipe comprising in combination a head having a bore extending upwardly thereinto from the lower end thereof, there being a passage for cutting oxygen extending from the upper end of said bore and the upper portion of the said bore being threaded, with a tapered seat provided between such threaded portion and the lower end of the said passage, a tip having a threaded upper portion adapted to engage the thread within the bore and having a reduced extension adapted to engage the said seat, there being an annular shoulder provided between the threaded portion of the tip and the said extension and an annular chamber formed between the shoulder and the extension and the upper portion of the bore, the said tip having, below the threaded portion thereof, a groove therearound forming an annular chamber with the inner wall of the said bore, said head having a passage for preheating oxygen and a passage for combustible gas, one of said passages communicating with the first mentioned chamber and the other of said passages communicating with the other of said chambers, the tip having a central bore therethrough communicating at its upper end with the



first mentioned passage, and bores for preheating mixture grouped about the central bore and extending from the bottom of the tip through the said shoulder, the said tip having a passage extending from each of the last mentioned bores to the second annular chamber, the portion of said tip below the groove thereof fitting closely within the bore of said head.

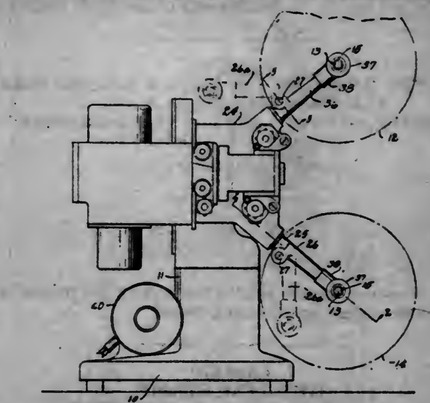
1,920,966
FISHING POLE
Joseph Carlson, Detroit, Mich.
Application November 11, 1929
Serial No. 406,208
4 Claims. (Cl. 43—22)



3. In a fishing pole: a reel supporting body; a shoulder at one end of said body provided with a recess for the reception of one end of a reel plate; a boss at the opposite end of said body and having a bore formed there-through and opening intermediate its ends into a slot extending laterally through the boss; a threaded member engaged in said bore and having an inclined flat surface on one end; and a nut positioned in said slot and threaded on said threaded member for effecting, upon rotation, axial movement of said threaded member in the bore into and out of engagement with the opposite end of the reel plate.

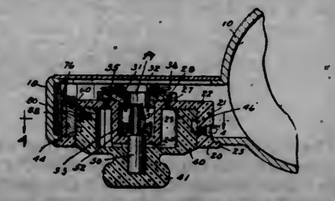
1,920,967
MECHANISM FOR DRIVING REELS
Ernest S. Carpenter, Cleveland Heights, Ohio, assignor to The Augustus-Carpenter Company, Cleveland, Ohio, a Corporation of Ohio
Application July 9, 1930. Serial No. 466,684
21 Claims. (Cl. 242—55)

21. In a moving picture projector, the combination of a supply reel, a take-up reel, a rotatable driving member, separable reel supporting arms, and a separable transmission mechanism within each arm, the regions of separation of each supporting arm and of the transmission mechanism within it being adjacent, whereby the rotatable driving member is automatically connected with the reels when the respective arms are in operating position, and is automatically



disconnected from the reels when the respective arms are in inoperative position.

1,920,968
ELECTRIC CONTROL FOR MOTION PICTURE PROJECTORS
Ernest S. Carpenter, Cleveland Heights, Ohio, assignor to The Augustus-Carpenter Company, Cleveland, Ohio, a Corporation of Ohio
Application January 26, 1931. Serial No. 511,250
14 Claims. (Cl. 200—4)

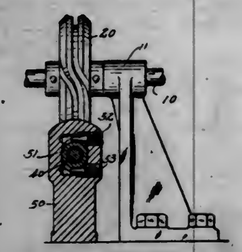


1. A unitary control, comprising a housing carrying fixed contacts arranged in a circular course about an axis, conductors leading from said contacts to various parts of the apparatus, a barrel rotatable on the housing axis and having bridging contacts on its periphery adapted to bridge various pairs of contacts of the housing, whereby the rotation of the barrel may select the operation to be performed, and means for closing a controlling switch common to all of the alternative circuits selected by the rotation of the barrel.

1,920,969
MECHANICAL MOVEMENT
Ernest S. Carpenter, Cleveland Heights, Ohio, assignor to The Augustus-Carpenter Company, Cleveland, Ohio, a Corporation of Ohio
Application April 27, 1932. Serial No. 607,700
10 Claims. (Cl. 74—41)

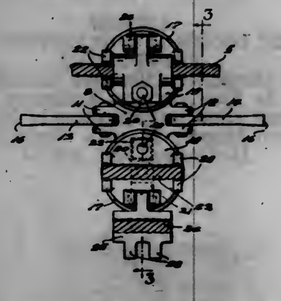
1. A mechanical movement, comprising a rotary driving wheel having a peripheral groove making an incomplete circumference and diverted at its ends to opposite sides of the wheel respectively, said wheel having chamfered edges, and a driven wheel having a series of pins, any one of which is adapted to occupy the groove while the two adjacent pins on opposite sides thereof engage said chamfered edges during the period of rest of the driven wheel, said pins having their extreme opposite lines parallel with each other,

and there being clearance between the hub of the driven wheel and the periphery of the driv-



ing wheel whereby said wheels may be properly set with reference to each other.

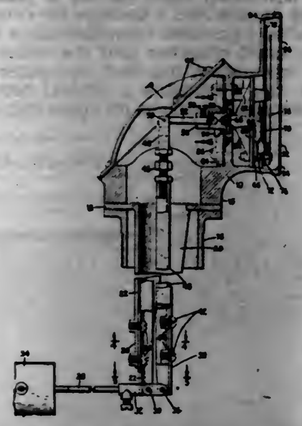
1,920,970
GUY-LINE CLAMP
John M. Chevalier, Seattle, Wash.
Application April 28, 1930. Serial No. 447,879
14 Claims. (Cl. 24—125)



1. The combination with a guy-line and a support therefor, of clamping devices for securing the guy-line to the support, said clamping devices comprising a frame, a pair of spaced apart annular recesses in said frame, blocks secured in said recesses, the exposed face of said blocks being channeled, saddle members having fluted channels arranged for clamping engagement over a guy-line disposed in the channels of said block, means constituting dogs adapted for engagement in said support, and means constituting a spur rigid with the frame and adapted to be embedded in the support responsive to tension imparted to the guy line passing through said blocks.
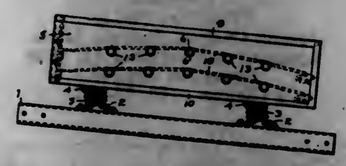
1,920,971
LIQUID LEVEL GAUGE WITH DIAPHRAGM SEAL
Clarence A. de Giers, Forest Hills, N. Y., assignor, by mesne assignments, to Richard C. Murphy, New York, N. Y.
Application January 16, 1930. Serial No. 421,323
6 Claims. (Cl. 73—82)

5. In a gauge for indicating the depth of liquid in a tank, means for securing said gauge to a tank, said gauge comprising a housing, an indicator within the housing, a diaphragm within the housing and cooperating with the tank to divide the housing into two closed compartments, one of which contains the indicator, float operated mechanism in the tank and the other compartment and extending through said diaphragm to operate said indicator, and mechanism within said other compartment for adjusting the float mechanism in accordance with the contents of



the tank, said mechanism being operable without entering the tank.

1,920,972
VIBRATING SCREEN
Emil Deister, Fort Wayne, Ind., assignor to Deister Machine Company, Fort Wayne, Ind.
Application October 10, 1928. Serial No. 311,435
9 Claims. (Cl. 209—326)

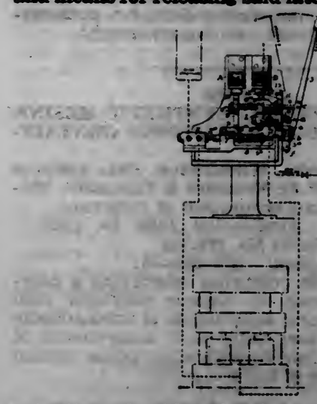


1. In a screening mechanism, a frame consisting of spaced side walls and cross supports welded to the side walls, tubular cushions covering the supports, coiled springs to support the frame, a screening medium releasably engaged at one end on the side walls, adjustable means secured to the opposite end of the medium for stretching the medium upon the said supports, and overbalanced means mounted on the frame to vibrate it.

1,920,973
VALVE-OPERATING MECHANISM
Richard W. Dinzl, Philadelphia, Pa., assignor to Southwark Foundry & Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania
Application May 31, 1930. Serial No. 457,892
17 Claims. (Cl. 161—7)

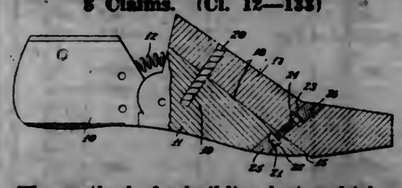
17. The combination of a valve casing, a valve mounted therein having a projecting stem, a pivotally mounted lever operatively connected to said valve stem, a rod paralleling said valve stem and operatively connected to said lever, a spring for actuating said rod whereby said lever may move the valve to closed position, a latch in engagement with said rod, means for releasing said latch at a predetermined time interval whereby the spring may actuate said rod and lever, a second valve, mechanism operatively connected to said lever for effecting actuation of the same; said means including a spring, a latch for holding said mechanism when actuated by said lever,

and means for releasing said latch and permitting



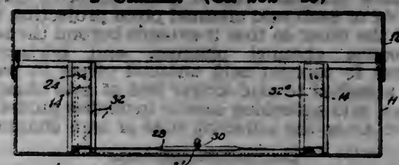
actuation of said spring to operate said second valve at a predetermined time interval.

1,920,974
METHOD OF REBUILDING LASTS
Ernest W. Durkee, Lynn, Mass., assignor to E. W. Durkee Last Company, Lynn, Mass., a partnership comprising Ernest W. Durkee and William J. Clark
Application February 17, 1931. Serial No. 516,326
8 Claims. (Cl. 12—133)



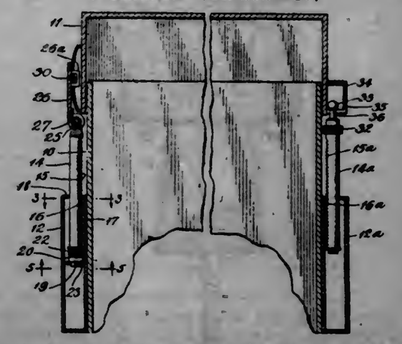
1. The method of rebuilding lasts, which comprises the steps of removing a substantial portion of the forepart of a last along a line of cut extending from behind the top of the cone of said forepart to the bottom of the tread portion thereof, and substituting for said removed portion a forepart portion of different dimensions than the portion removed.

1,920,975
ADJUSTABLE LATCH OR CLOSURE DEVICE
George L. Eber and Jacob Eber, Bronx, N. Y.
Application February 11, 1931. Serial No. 514,928
3 Claims. (Cl. 292—45)



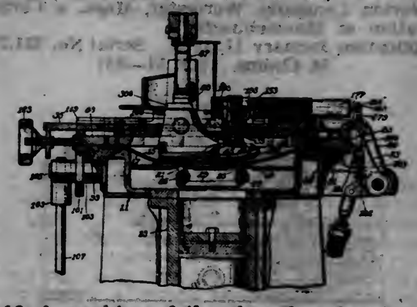
1. A device of the class described comprising a casing, a guide rod in said casing, a block slidably engaging said rod within the casing and having a part projecting through the casing, means spaced longitudinally of said rod adapted to be engaged by a member on said block for retaining the block against movement in one direction with respect to said rod, said rod being adjustable to move the means thereon out of engagement with said member to permit free movement of the block on the rod in both directions, and means in the casing independent of said rod and cooperating with said block for retaining the same against rotation in the casing.

1,920,976
ADJUSTABLE LATCH OR CLOSURE DEVICE
George L. Eber, New York, N. Y.
Application July 14, 1932. Serial No. 622,376
7 Claims. (Cl. 292—57)



1. A device of the class described comprising a tubular casing, a rod slidably engaging said casing and protruding from one end thereof, means at said end of the casing engaging the rod for retaining the same against movement in one direction with respect to the casing, said rod having longitudinally spaced teeth with which said means cooperate, and means for rotating said rod to move said teeth out of engagement with said means, said last named means comprising a spring mounted on the rod within said casing and a disk on the rod and keyed against rotation in said casing.

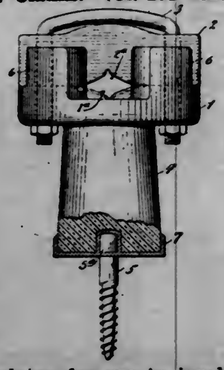
1,920,977
SOLE LAYING MACHINE
Sidney J. Finn, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application September 12, 1931
Serial No. 562,461
50 Claims. (Cl. 12—33)



16. A machine of the class described having, in combination, a pressure box one wall of which comprises a flexible diaphragm, a pivoted cap plate resting upon the margin of the diaphragm, a jack and a plurality of shoe-engaging plates carried by the cap plate, operating mechanism detachably connected to the jack and to the shoe-engaging plates, means for detachably fastening the cap plate to the box, and means adapted to be operated, after the cap plate has been disconnected from the box and the operating mecha-

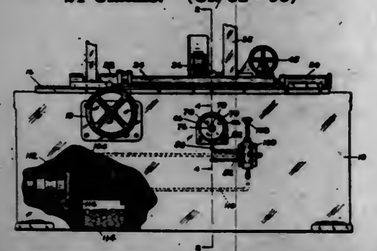
nism has been disconnected from the jack and the shoe-engaging plates, for swinging the cap plate to expose the diaphragm.

1,920,978
INSULATOR
Louis Fort, Jersey City, N. J.
Application August 29, 1929. Serial No. 389,171
7 Claims. (Cl. 173—314)



1. An insulator for use in insulating electric conductors from their supports comprising a disk formed from insulating material constituting the head and having a diametrical groove in one surface thereof adapted to accommodate a conductor, projections extending from the surface of said head containing the groove and having curved surfaces forming a continuation of said groove, a removable clamping strap formed from insulating material and having a complementary transverse groove in the lower surface thereof and fitting between said projections transversely to the groove in the head, clamping means for securing said clamping strap to said head, and means carried by the insulator for attaching the insulator to the support.

1,920,979
FEEDING MECHANISM FOR MACHINE TOOLS
Warren F. Fraser, Westboro, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts
Application January 11, 1929. Serial No. 331,761
24 Claims. (Cl. 51—95)

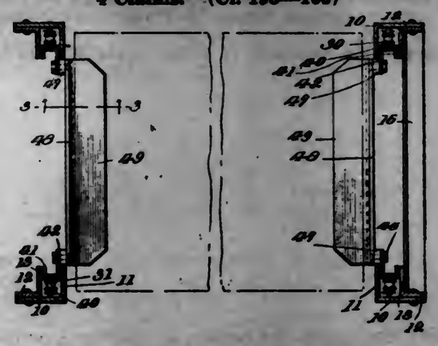


1. In a grinding machine comprising a base, a work support and a grinding element support, one of said supports being movable toward the other of said supports to effect a grinding operation, the combination of a fluid pressure mechanism having two relatively movable members one of which is connected to said movable support and the other one to said base, two fluid passages to control the rate of relative movement of said members in one direction at different speeds, and means to automatically render one of said passages inoperative during a predetermined portion of said relative movement.

1,920,980
PROCESS OF MAKING SYNTHETIC RESINS, AND COATING-COMPOSITIONS CONTAINING THEM
Chester G. Gauerke, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware
No Drawing. Application June 26, 1928
Serial No. 288,540
7 Claims. (Cl. 260—8)

1. Process which comprises esterifying a polyhydric alcohol with an organic polybasic acid and beta-eleostearic acid which is substantially free from the other fatty acid components of China-wood oil, said esterification being carried out in the absence of sulfuric acid.

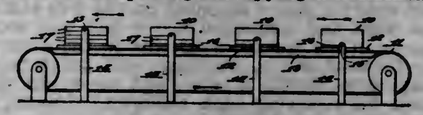
1,920,981
CONVEYER
William J. Gibbs, Brooklyn, N. Y., assignor to The Lamson Company, Syracuse, N. Y., a Corporation of Massachusetts
Application February 2, 1929. Serial No. 337,016
4 Claims. (Cl. 198—163)



1. A device of the class described comprising four pairs of angle irons connected together to present a channel, the channels being arranged in pairs open toward and mutually opposite one another, traveling chains in said channels, a plurality of supporting members each comprising a channel piece to be located in a respective one of said channels and guided by the inner walls thereof and means to fasten the channel piece to move with one link of said respective chain, one leg of each said channel piece projecting beyond the other so that it extends beyond the said respective channel member, and horizontal shelves to connect said channel pieces in pairs and attached to said longer legs of said channel pieces, said attaching means including guides to travel along the adjacent edge of said channels.

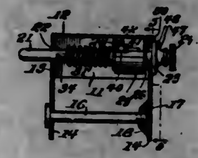
1,920,982
METHOD OF PRODUCING BUILDING SLABS
Richard Hedrich, Los Angeles, Calif., assignor of one-half to Percy R. Bissell, Glendale, Calif.
Application February 17, 1930. Serial No. 429,066
5 Claims. (Cl. 25—156)

5. The herein described method of producing building slabs, which consists in cutting substantially rectangular blocks of plastic material lengthwise to form packages of superimposed slabs then drying said packages, then arranging said packages in tiers, with the packages in each tier disposed substantially at right angles relative to the packages in the next adjacent tiers with the slabs in said packages standing on edge and with each package occupying a horizontally



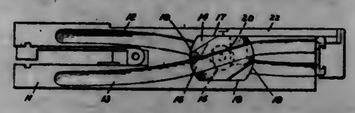
disposed angular position relative to the next adjacent packages so that said packages are in contact with each other only at diagonally opposite corners of said packages and then burning said packages.

1,920,983
COMBINATION SASH LOCK
Charles J. Hohman, Miami, Fla.
Application July 18, 1932. Serial No. 623,220
4 Claims. (Cl. 70—18)



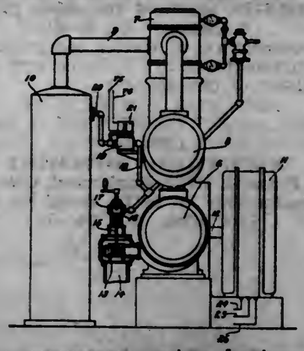
1. A combination sash lock comprising a casing adapted to be permanently secured to the meeting rail of a lower window sash, a locking pin slidably and rotatably fitted within the casing for locking engagement with an upper window sash, a combination cylinder loosely supported upon the pin within the casing, a bit on the pin and movable through the cylinder and casing when said cylinder is in a predetermined position, said cylinder having false acting slots for the bit, a weight carried by the cylinder and holding the same in a position counter to the determined position for the sliding of said bit, and means manually operable to hold the cylinder against the action of its weight when adjusting the bit to permit the retracting of the pin.

1,920,984
REVERSIBLE FEED MECHANISM FOR MACHINE-GUNS
Forrest K. Heward, East Falls Church, Va.
Application January 20, 1933. Serial No. 652,645
8 Claims. (Cl. 89—33)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. In a machine gun, a breech bolt having two intersecting cam paths interrupted at the intersection by a recess having parallel side walls, a symmetrical switch block receivable in the recess, said block being substantially diamond-shaped with a cam path formed on the long axis of the diamond, the opposite sides of the block engaging the opposite sides of the recess when the block is in position of adjustment with its cam path completing either one of the interrupted cam paths, and means for engaging the block in any position of its adjustment to hold it against rotational displacement.

1,920,985
PUMP CONTROLLING MECHANISM
William E. Hughes, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts
Application January 21, 1930. Serial No. 422,429
20 Claims. (Cl. 230—4)



1. In a compressor system having a prime mover operated compressor provided with unloading mechanism and connected to supply pressure fluid to a receiver, the combination comprising a pilot valve constructed and arranged to effect loading and unloading of said compressor at predetermined limits of pressure in said receiver, means whereby when the compressor is unloaded it will idle for a limited period of time and then be stopped, and means whereby if the receiver pressure drops substantially to the loading limit of said pilot valve before said time period expires the compressor is reloaded and will build up receiver pressure until the pilot valve unloads the compressor.

1,920,986
METHOD OF MAKING COMBINED ABRASIVES AND HOLDERS
Marsden C. Hutte, Detroit, Mich., assignor to Hutte Engineering Company, Inc., a Corporation of Michigan
Original application December 11, 1926, Serial No. 154,230. Divided and this application June 28, 1928. Serial No. 289,044. Renewed November 4, 1932
4 Claims. (Cl. 51—278)

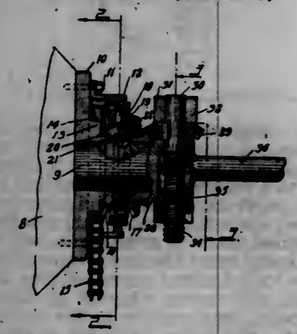


1. The hereindescribed method of uniting an abrasive bar and a holder having a body of channel form for use in a tool which is adapted to grind cylindrical surfaces by a rotary and longitudinal movement of the tool, and which is provided with adjusting means for determining and maintaining a desired relation of the abrading surface carried thereby to the axis of revolution and traverse of the grinding tool; said method consisting in making said abrasive bar and said holder positioning said abrasive bar in the channel of said body so that upon assembly in the tool the working face of the bar occupies a technically correct working position; and flowing a liquid adherent material between said holder and bar and permitting said material to harden and rigidly connect said holder and bar and maintain the same in said predetermined relationship.

1,920,937
PROCESS OF DYEING
Charles E. Kaltenbach, Cranford, N. J.; Herman Muhlenbruck, Juana C. Kaltenbach, and Roger W. Aldrich executors of said Charles E. Kaltenbach, deceased
No Drawing. Application August 15, 1928, Serial No. 299,878. Renewed December 24, 1932
6 Claims. (Cl. 8—6)

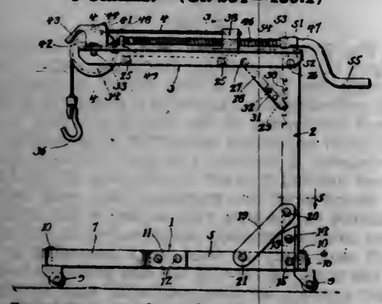
1. A composition of matter comprising as essential ingredients a dye material and an aqueous emulsion of pine oil.

1,920,938
MECHANICAL MOVEMENT
Frank A. King, Englewood, Colo.
Application July 21, 1931. Serial No. 552,117
14 Claims. (Cl. 74—7)



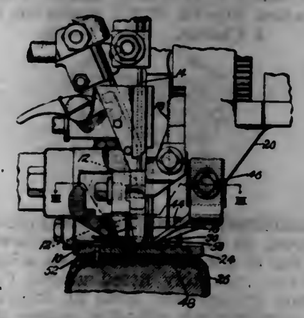
1. Mechanism of the character described comprising a rotary shaft, a rotary element driven by the shaft, a member mounted to rotate with the element but movable relative thereto, and mechanism to effect said relative movement comprising a stationary gear, a gear connected to rotate with the shaft, a planetary gear engaging the last-mentioned gear and the stationary gear, a cross arm carrying the planetary gear, a spur gear on the cross arm, a gear engaging the spur gear and connected to operate the relatively movable member, a manually controlled gear also meshing with the spur gear, and means to operate the manually controlled gear.

1,920,939
PORTABLE CRANE
Arthur J. Layhon, Lowell, Mass., assignor of one-half to Raymond D. Hart, Lowell, Mass.
Application April 18, 1933. Serial No. 666,715
8 Claims. (Cl. 254—139.1)



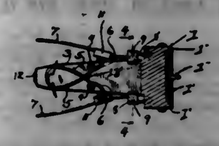
7. In a crane, a base having a forward and a rearward end and comprising an elongated body portion and laterally extending supporting arms at the opposite ends thereof, means adjacent the end of each arm for supporting said base, a substantially upright mast at the rearward end of said base, a boom pivoted to the mast above said base and overlying the base, means for adjustably positioning said boom with respect to said mast, a pulley mounted on the free end of the boom and positioned above said base rearwardly of the supporting means on the arms at the forward end of the base, said pulley being adapted to receive a cable, and means on said boom for receiving such cable and drawing it upwardly over said pulley.

1,920,990
FASTENING INSERTING MACHINE
Fred N. La Chapelle, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application April 15, 1930. Serial No. 444,565
10 Claims. (Cl. 1—30)



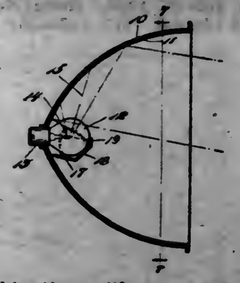
1. A fastening-inserting machine having an awl constructed and arranged to make fastening-receiving holes in a work piece presented to the machine and to feed the work, a member adjacent to the work and moving with the awl during its work feeding-movement comprising a finger the end of which engages and backs up the awl thereby relieving the awl of a large portion of the strain of its work-feeding movement, and means constructed and arranged to drive a fastening into the work at the conclusion of the feeding movement.

1,920,991
ARTIFICIAL LURE
Adam H. Lahm, New Butler, Wis.
Application February 25, 1930. Serial No. 431,123
3 Claims. (Cl. 43—36)



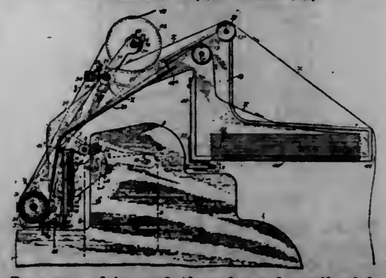
1. A fishing lure comprising a body having a head portion, a pair of hooks normally housed within the body and pivoted thereto, wings pivotally secured at one end to the opposite sides of the head and extending rearwardly of the body, spring means mounted on the body and normally urging the wings laterally beyond the opposite sides of the body and means operatively connecting the hooks with the pivoted wings, whereby upon inward movement of the wings against the action of the spring, the hooks will be forced outwardly beyond the body and said wings.

1,920,992
HEADLIGHT SHIELD
James M. Landry, Pawtucket, R. I.
Application February 9, 1932. Serial No. 591,791
1 Claim. (Cl. 240—43.6)



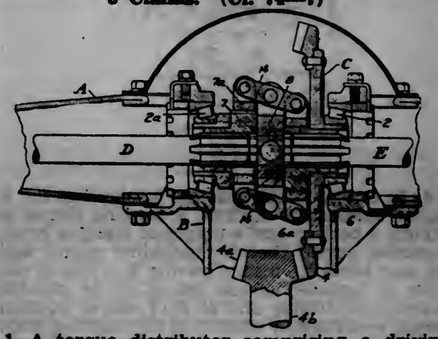
The combination with a concave reflector, a light bulb supported by said reflector at its center, of a device for controlling the direction of the rays from the bulb, said device comprising a member having three plane portions adapted to underlie the bottom of the bulb to reflect all rays from the lower portion of the bulb to the upper portion of the concave reflector, the planes being at angles with each other, the first plane extending downwardly and forwardly below the front forward portion of the bulb, the second plane extending downwardly and backwardly below the lower front half of the bulb, and the third plane extending backwardly and upwardly below the lower back half of the bulb, the sides of the bulb being left uncovered, and means for resiliently attaching said controlling device to the bulb, said last mentioned means comprising U-shaped loops having legs secured to opposite plane portions of the controlling device, whereby the said loops may grip the bulb along opposite sides of the longitudinal axis thereof.

1,920,993
TABULATING MACHINE
William W. Lasker, Brooklyn, N. Y., assignor to Remington Rand Incorporated, New York, N. Y., a Corporation of Delaware
Application October 3, 1929. Serial No. 397,082
2 Claims. (Cl. 101—96)



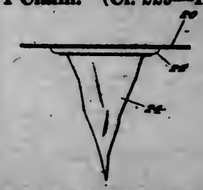
1. In a machine of the class described having a plurality of sets of printing type, each of said sets of type having its type arranged in consecutive serial order and in progressive denominational orders, and automatic means including a record for selecting type from the groups of sets of type for a printing impression, the combination of a laterally adjustable frame for supporting a platen for carrying record material constructed and arranged to simultaneously receive a printing impression from a plurality of type in any set of type, and means for supporting, guiding, and adjusting a pre-arranged-pre-printed record material web including a container for said record material attached to the frame for supporting the platen, mutually adjustable web guides for said record material, and optionally adjustable means for locating said laterally adjustable frame in any position within a predetermined range whereby webs of differing arrangements may receive printing in optionally selectable positions.

1,920,994
TORQUE DISTRIBUTOR
Frank P. Lawler, San Francisco, Calif.
Application April 4, 1932. Serial No. 602,963
5 Claims. (Cl. 74—7)



1. A torque distributor comprising a driving shaft and a carrier driven thereby, a pair of driven axles, an eccentric secured on each axle, a compensating ring surrounding each eccentric and in which the eccentrics are rotatable, a driving plate driven by the carrier and movable transversely of the carrier only, and a positive driving connection between the driving plate and the compensating rings.

1,920,995
HOLDER FOR ICE CREAM CONES
Algeo J. Legge, Los Angeles, Calif.
Application August 17, 1929. Serial No. 386,688
1 Claim. (Cl. 229—1.5)

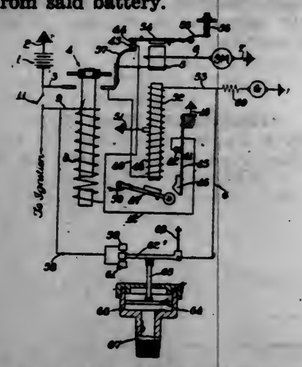


An ice cream cone holder, comprising in combination a flat apertured receptacle and a conical handle attached thereto, the receptacle being downwardly and inwardly flared adjacent the aperture and forming means for retaining and controlling the drip as the ice cream cone is consumed.

1,920,996
AUTOMATIC STARTING MECHANISM FOR INTERNAL COMBUSTION ENGINES
Charles I. McNeil, Cedar Grove Township, Essex County, N. J., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York
Application July 11, 1932. Serial No. 621,985
11 Claims. (Cl. 290—37)

1. In an automatic starting mechanism for internal combustion engines, a starting circuit

including a battery and a magnetic starting switch, a control circuit for said switch including a control relay, an engine driven generator, means energized thereby for holding open said control relay and means responsive to self-operation of the engine for energizing said holding means from said battery.



8. In an automatic starting mechanism for internal combustion engines, a starting circuit including a battery and a magnetic starting switch, a control circuit therefor including circuit making and breaking means having two sets of contacts in parallel, means energized by cranking current for closing one of said sets of contacts, means energized by closure of the starting circuit for opening the second set of contacts, and electromagnetic means responsive to a plurality of products of self-operation of the engine for holding open said second set of contacts.

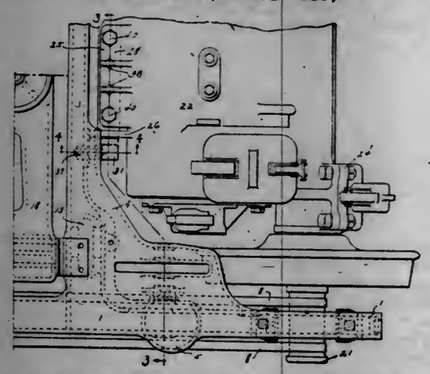
1,920,997

RAILWAY MOTOR TRUCK STRUCTURE

William H. Meyer, St. Louis, Mo., assignor to General Steel Castings Corporation, Granite City, Ill., a Corporation of Delaware

Application October 8, 1931. Serial No. 567,729

12 Claims. (Cl. 105—139)



1. In a motor truck, a wheel axle, a truck frame having a transverse transom having an upright web and flanges projecting towards said axle, a motor frame mounted at one end on said axle and having a projection on its opposite end, a bracket movably mounted on said transom flanges and projecting beyond the same towards said axle, a yielding suspension unit detachably secured to said motor frame projection and cooperating with said bracket to support the motor frame and to permit limited vertical movement of said motor frame relative to said transom.

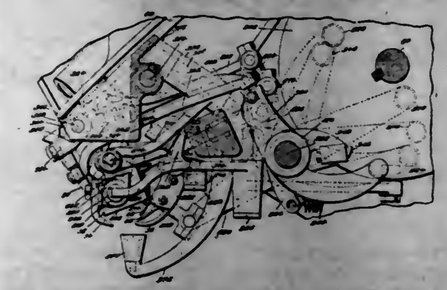
1,920,998

INSEAM SHOE SEWING MACHINE

Alfred R. Merrill, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey

Application July 25, 1927. Serial No. 208,116

19 Claims. (Cl. 112—35)



1. A chain stitch shoe sewing machine having, in combination, work feeding and stitch forming devices adapted to maintain a continuous feed of the work including a hook needle, an awl, a looper, an awl slide, a needle slide, a thread holding gripper mounted on the needle slide, and a thread finger mounted on the needle slide movable into engagement with said gripper to hold the thread.

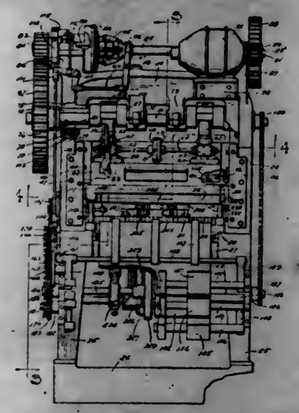
1,920,999

SHEARING MACHINE

John H. Murch, East Orange, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey

Application February 13, 1929. Serial No. 339,553

12 Claims. (Cl. 164—48)



12. In an apparatus for cutting blanks from metal sheets in shape to have can ends and the like formed therefrom, the combination of a stationary frame, a crosshead sliding on the frame, a scroll-line cut edge carried on the crosshead and coacting with a similar cut edge mounted on the frame, said cut edges constituting parts of a shearing mechanism, a crank shaft carrying a pair of cranks and rotating within bearings carried by the frame, and pitmen and pitman stems and connecting devices interposed between the cranks and the crosshead, said devices being independently or simultaneously movable for adjusting one or other or both sides of the crosshead relative to the crank shaft to insure smooth operation of the shearing mechanism.

1,921,000

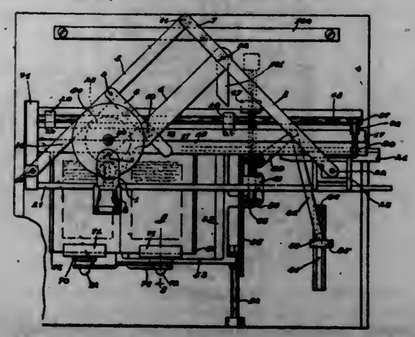
APPARATUS FOR TRANSLATING IMPRESSIONS

Robert E. Naumburg, Winchester, Mass.

Application September 11, 1928

Serial No. 305,293

6 Claims. (Cl. 250—41.5)



1. Apparatus for perceiving subject matter comprising means for transmitting intermittent light beams of different frequencies to the subject matter, means common to said beams for producing current modified in accordance with all of said frequencies including a light sensitive device in the path of the light of all of said beams after leaving the subject matter, means responsive to said current for producing individual currents each modified in accordance with one of said frequencies, and separate devices responsive to said individual currents respectively for manifesting the modification of the corresponding beam by the subject matter.

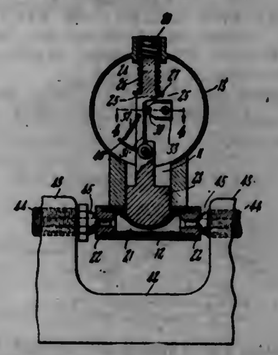
1,921,001

PRESSURE GAUGE

Olof Ohlson, Newton, Mass.

Application February 11, 1929. Serial No. 338,931

10 Claims. (Cl. 73—110)



8. In a gauge, a casing having a tubular member at one end and an interior guideway opening through the side of said tubular member, a flexible lining tube occupying said member, tubular plugs removably occupying the ends of said lining tube and having an exterior diameter less than the interior diameter of said tubular member but greater than the unstressed interior diameter of the lining tube, a movable pusher occupying said guideway and loaded so as to press against the side of the lining tube, and means cooperating with said pusher to indicate fluid pressure existing within the lining tube.

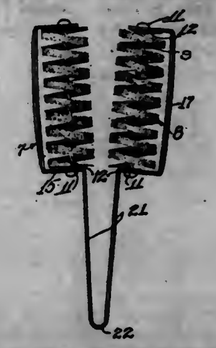
1,921,002

COMB CLEANER

Rudolph M. Ozabal, Chicago, Ill.

Application June 16, 1932. Serial No. 617,531

7 Claims. (Cl. 132—27)



1. A device of the class described comprising a plurality of engageable and freely rotatable cleaning elements, a single supporting means for each of said elements for supporting said elements in the same plane and in substantially parallel relation, each said supporting means including a longitudinally extending arched stiffening portion, and means integrally connected with both of said supporting means whereby the distance between said cleaning elements may be varied.

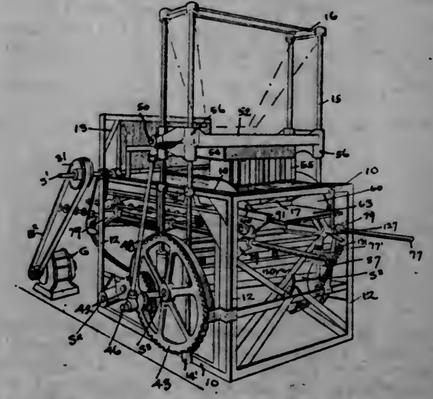
1,921,003

CONCRETE BLOCK MOLDING MACHINE

Karl T. Romie, Los Angeles, Calif.

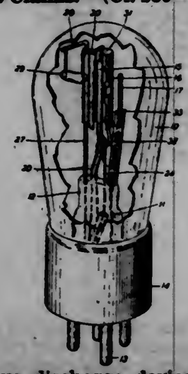
Application February 20, 1928. Serial No. 255,509

12 Claims. (Cl. 25—41)



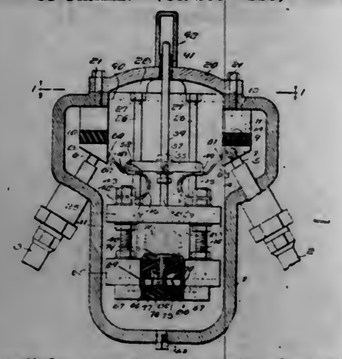
8. A device of the character described comprising a frame; a mold mounted on said frame; means for agitating said mold; a resilient bottom for said mold slidably mounted relative thereto; a pallet rack having a plurality of pallets thereon; means for simultaneously removing the bottom from the mold and substituting a pallet; a support to hold said pallet in resilient engagement with the mold; means for raising and lowering said support with the pallet thereon; an ejector to force material from said mold onto the pallet and simultaneously lowering the pallet and molded material from beneath said mold; and means for removing said pallet with the molded material thereon away from the mold.

1,921,004
GASEOUS DISCHARGE DEVICE
Arthur L. Samuel, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application July 1, 1930. Serial No. 465,083
13 Claims. (Cl. 250—27.5)



1. A gaseous discharge device comprising an electron emitting cathode, an anode, and a control electrode co-extensive with said cathode and anode substantially segregating said cathode from said anode, said control electrode having a single lateral opening to form a focusing discharge path between said cathode and anode.

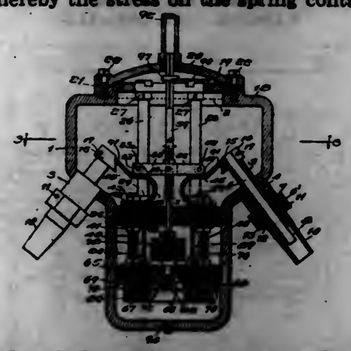
1,921,005
ELECTRIC OIL CUT-OUT
Edmund O. Schweitzer, Chicago, Ill.
Application October 3, 1929. Serial No. 396,976
38 Claims. (Cl. 200—116)



2. A switch comprising a pair of stationary contacts, a pair of spring contacts adapted to engage the stationary contacts, a toggle for maintaining the contacts in engagement, said toggle being substantially on dead center and maintaining the spring contacts under stress when the switch is closed, means for breaking the toggle, whereby the stress on the spring contacts is released and the contacts snap away from the stationary contacts to open the circuit, and thermal means including an electric fuse for actuating said toggle breaking means.

1,921,006
ELECTRIC CUT-OUT
Edmund O. Schweitzer, Chicago, Ill.
Application June 12, 1930. Serial No. 460,582
19 Claims. (Cl. 200—120)

1. A switch comprising a pair of stationary contacts, a pair of spring contacts adapted to engage the stationary contacts, a toggle for maintaining the contacts in engagement, said toggle being substantially on dead center and maintaining the spring contacts under stress when the switch is closed, means for breaking the toggle, whereby the stress on the spring contacts is

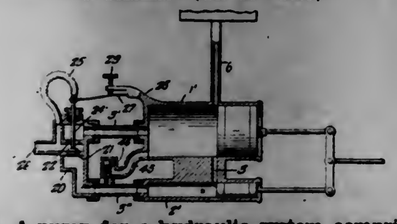


released and the contacts snap away from the stationary contacts to open the circuit, and thermal means for actuating said last named means, said first means including means for varying the distance to the thermal means for varying the point of operation of the switch.

1,921,007
RUBBER COMPOSITION AND METHOD OF PRESERVING RUBBER
Waldo L. Semon, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York
No Drawing. Application May 20, 1929
Serial No. 364,694
20 Claims. (Cl. 18—50)

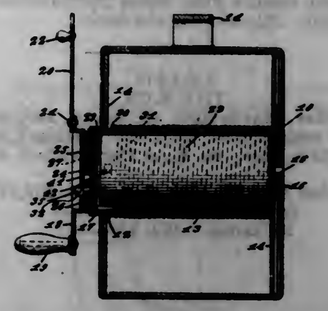
1. The method of preserving rubber which comprises treating rubber with the addition product of a phenol and a non-accelerating secondary aromatic amine.

1,921,008
PUMP FOR HYDRAULIC SYSTEMS
Byron H. Shinn, Washington, Pa., assignor to Shinn Devices Corporation, Washington, Pa., a Corporation of Delaware
Application April 17, 1929. Serial No. 355,852
6 Claims. (Cl. 60—54.6)



1. A pump for a hydraulic system comprising a large cylinder and a small cylinder, a piston in each cylinder, a lever, rods connecting the ends of the lever with the pistons, an actuating member connected with the central part of the lever, an elevated supply tank in communication with both cylinders when the pistons thereof are in inoperative position, valve means for normally connecting the large cylinder of the system and closing communication of the small cylinder with the system and adjustable means operated by the pressure in the system for reversing the valve when the pressure reaches a predetermined point.

1,921,009
ELECTRIC BLASTING REEL AND CABLE
Henry Skaggs, Lookout, W. Va.
Application July 22, 1931. Serial No. 552,468
7 Claims. (Cl. 175—91)

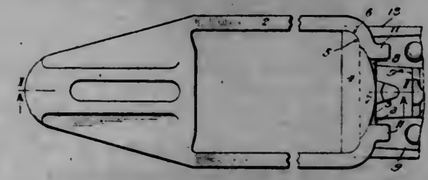


1. In a device of the character described, a casing, a hollow drum rotatably mounted therein and provided with a turning handle, a conducting cable wound upon the drum, a battery located within the hollow drum, and a switch located at one end of the drum and interposed between the battery and the conducting cable and operable for closing the circuit through the latter.

1,921,010
ART OF COLORING MINERAL MATTER
Horatio L. Small, Exmont, Va., assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio
No Drawing. Application February 3, 1930
Serial No. 425,722
3 Claims. (Cl. 91—70)

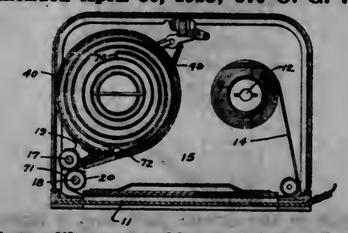
1. A process of coloring mineral granules such as slate, which comprises grinding together a pigmenting substance and a solution of silicate of soda, imposing the material thus formed upon the mineral granules, and heat-treating the mineral granules with agitation, to the extent of forming thereon a weatherproof coating.

1,921,011
COUPLER YOKE
Hubert L. Spence, Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a Corporation of Ohio
Application April 6, 1927. Serial No. 181,318
2 Claims. (Cl. 213—67)



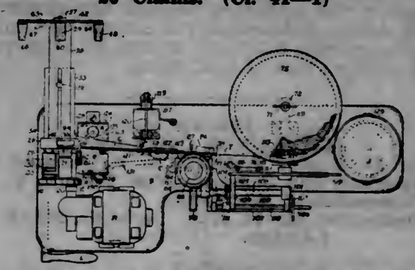
1. The combination with a coupler yoke, capable of being angled laterally, of a central back stop and rear side buffing stops, the yoke having arms and a rear vertical portion, and rear extensions from the vertical portion to prevent the rear end of the yoke when angled laterally under draft from swinging in front of the rear side buffing stops, said rear extensions also being arranged to avoid engagement of the yoke with the central back stop.

1,921,012
PHOTOGRAPHIC FILM DEVELOPING APPARATUS
Albert W. Stevens and William H. Richards, Dayton, Ohio
Application April 6, 1931. Serial No. 528,076
31 Claims. (Cl. 95—90.5)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A readily removable container adapted to be disposed in a camera, comprising in combination, a dark chamber for receiving and developing exposed portions of photographic film strips while in said container, a helical coil member disposed within said dark chamber into which the film strip is adapted to be received in coil form with spaces between the adjacent convolutions of said coil, said container being provided with light-excluding passages to permit the rapid ingress and egress of developing solutions into or out of said dark chamber and helical member having a series of fluid passages cooperating with the passages in said container to permit the developing solution to be readily accessible to the emulsion side of said film strip when contained in said helical coil member.

1,921,013
PASPARTOUTING MACHINE FOR LAMP SHADES, BASKETS, AND THE LIKE
Orville Gary Taylor and George T. McDonald, Minneapolis, Minn., assignors, by direct and mesne assignments, of two-fifths to Ikel C. Benson, Minneapolis, Minn., and three-fifths to said McDonald
Application October 10, 1932. Serial No. 637,036
20 Claims. (Cl. 41—1)

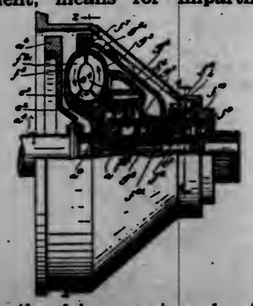


1. A device of the type described comprising, cooperative elements for applying an adhesive tape in a progressively advancing manner along an article, tape guiding mechanism, and a steam outlet directed against the adhesive side of the tape.

1,921,014
TRANSMISSION
Carl W. Weiss, Brooklyn, N. Y.
Application March 2, 1929. Serial No. 343,944
4 Claims. (Cl. 60—54)

4. The combination of a driving element, a driven element, a centrifugal body carried by

the driven element and adapted under the influence of centrifugal action to effect driving connection between the driving element and the driven element, means for imparting initial



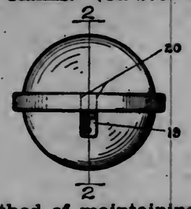
movement to the driven part, and a torque responsive connection between the driven part and the centrifugal body to control the engagement between the driving element and the driven element.

1,921,015

PACKAGING OF GAS CONTAINING OBJECTS

John M. Young, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey

Application November 30, 1927
Serial No. 236,599
24 Claims. (Cl. 206—46)



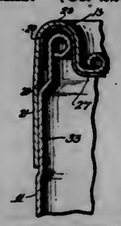
1. The method of maintaining fluid pressure within an object as a tennis ball and objects containing fluid under pressure, which consists in arranging said object in a container having side walls accurately fitting the walls of the object of this contained pressure and hermetically sealing said container to contain said walls in substantially full faced contact with the entire outer surface of said object.

1,921,016

CONTAINER CLOSURE

John M. Young, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey

Application July 10, 1929. Serial No. 377,143
7 Claims. (Cl. 220—27)



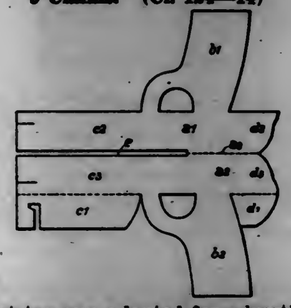
1. In a display top container, a container body having a sealing area of predetermined diameter, a transparent display member arranged over said body to close the same, a closure ring adapted to secure said member to said body and having a depending friction flange of substantial width and predetermined diameter adapted to be forced over said area by stretching the metal of said flange within its elastic limits said closure ring being permanently and irremovably united with the body.

1,921,017

TOY GUN

Paul Weber, Magdeburg, Germany, assignor, by mesne assignments, to Radio Patents Corporation, New York, N. Y., a Corporation of New York

Application May 28, 1930, Serial No. 456,353, and in Germany June 2, 1929
9 Claims. (Cl. 124—14)



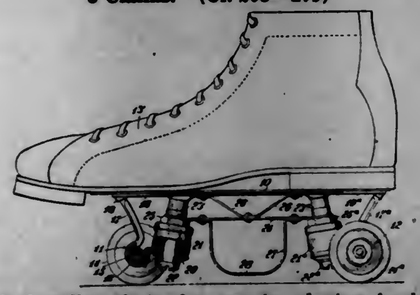
1. A flat toy gun adapted for advertising purposes, bent from a flat blank having a slot on its longitudinal center extending from the front end of the blank rearwardly to partially divide the blank into halves, each having a barrel and a stock portion, said slot terminating in spaced relation to the rear of the blank to provide a hinge between said halves, in combination with an elastic band on said barrel, a detent element adapted to stretch and release said elastic band composed of a trigger element, a long arm at the rear and a long arm at the front of said trigger said arms adapted to guide said detent element in said open barrel.

1,921,018

ROLLER SKATE

Henry F. Whitcomb, Jr., Milwaukee, Wis., assignor to Richardson Ball Bearing Skate Company, Chicago, Ill., a Corporation of Illinois

Application March 14, 1932. Serial No. 598,769
3 Claims. (Cl. 208—179)



1. A roller skate for use in playing hockey comprising a body portion including a foot plate and longitudinally extending brace members, front and rear trucks attached to the body but with capacity for variable oscillation movements with relation to each other, and a puck inter-

cepting and skate body rigidifying member secured to the under portion of said skate body and depending therefrom to substantially close the said space beneath the skate body and between the trucks of the skate.

1,921,019

TUBE CLEANER

James Henry Young, Bronx, N. Y., assignor to Thomas C. Wilson, Incorporated, New York, N. Y., a Corporation of New York

Application June 30, 1931. Serial No. 547,874
3 Claims. (Cl. 15—104.14)



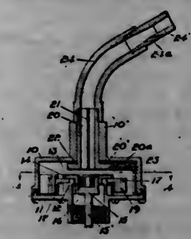
1. In a tube cleaner, a rotary cutter, a cutter shaft, said lock pin extending beyond said frame carrying said cutter shaft, a lock pin passing through said frame and at least partly through said cutter shaft to lock said cutter shaft in place, a swing shaft passing through said frame and at least partly through said lock pin to hold said lock pin in place and to pivotally support said frame, and a body supporting said swing shaft, and lock pin extending beyond said frame and contacting with said body to prevent the excessive outward swinging of said frame.

1,921,020

WATER MOTOR FOR SPRINKLERS

William Birrell, Santa Barbara, Calif.; Margaret F. Birrell executrix of said William Birrell, deceased

Application September 22, 1930
Serial No. 483,515
4 Claims. (Cl. 299—67)



3. A water motor for a sprinkler including a housing, a sprinkler nozzle having one end rotatably mounted through the top wall of said housing and open to receive water through its attached end, means through the bottom wall of said housing for connecting a water supply and in open alinement with said nozzle, whereby water through said bottom passes directly through said nozzle, a rotor rotatably mounted around the inner end of the water supply connection, concentric therewith, to turn thereabout, said rotor having vanes connected therewith and projecting therefrom, means for discharging water under force laterally from said water supply connection to strike said vanes and rotate said rotor, and cooperating means between said rotor and said nozzle for rotating said nozzle as said rotor is rotated.

1,921,021

METHOD OF CONNECTING A COLLAPSIBLE CELLOPHANE TUBE TO A METALLIC DISPENSING TERMINAL

George W. Bungay, Plainfield, N. J., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania

Application June 3, 1931. Serial No. 541,934
1 Claim. (Cl. 29—148.2)



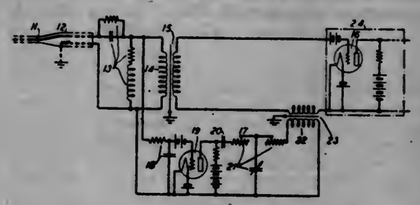
The method of connecting a collapsible cellophane tube member to a metallic dispensing terminal member having vertical depending side walls and being of different hardness than the tube member, comprising forming a groove at the edge of the terminal member extending upwardly into said vertical side walls of the terminal member, a wall of which is a substantially cylindrical surface, roughening a wall of the harder member for contact with the wall of the softer member, inserting an end of the tube in said groove, and pressing the walls of said groove upon the tube and into such firm contact therewith that the roughened wall of the harder deforms the wall of the softer member, thereby forming an interlocking connection without deforming the upper end of the cellophane tube member.

1,921,022

SUBMARINE CABLE SIGNALING SYSTEM

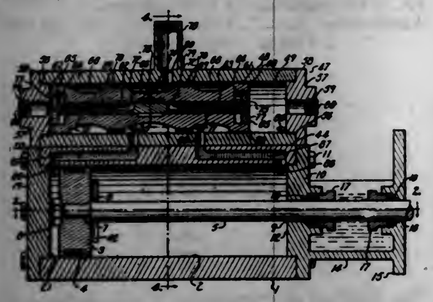
Everett T. Burton, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York

Application July 25, 1931. Serial No. 553,100
5 Claims. (Cl. 178—63)



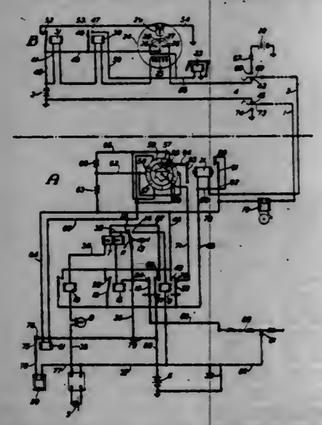
1. A receiving system comprising input terminals for connecting said system to a transmission line, a main path and an auxiliary path connected in parallel relation to receive currents impressed on said input terminals and having their output terminals connected to each other in opposing relation, means in one of said paths to suppress transmission therethrough of signal currents of essential deep sea cable telegraph frequencies but which transmits currents of a range of lower frequencies, and means in said last-mentioned path to increase the amplitude of said transmitted lower frequency currents to a magnitude approximately sufficient to annul the similar frequency currents transmitted by said other path.

1,921,023
FLUID MOTOR
Ira L. Chambers, Enid, Okla., assignor of one-half to George E. Failing, Enid, Okla.
Application April 25, 1931. Serial No. 532,764
2 Claims. (Cl. 121—158)



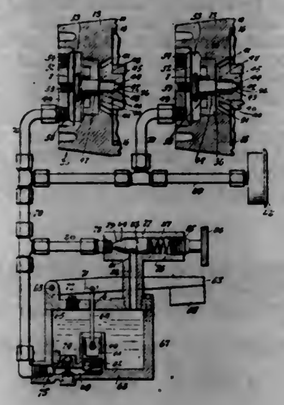
1. In a device of the character described, a power cylinder, a piston in the cylinder, a slide valve housing, a valve unit in the housing including a primary valve having spaced annular flanges to define a central inlet chamber and end exhaust chambers, and having a longitudinal bore and an inlet port connecting said bore with the inlet chamber, said valve having end recesses, a secondary valve slidably mounted in said bore having longitudinal channels extending into opposite ends thereof adapted to selectively communicate with said port, heads on the secondary valve adapted to seat in said recesses to limit sliding movement of the secondary valve, and conduits connecting the ends of the power cylinder inversely with the ends of the valve housing for directing fluid pressure to opposite ends of the valve unit for sliding the secondary valve to communicate one of said channels with said port for moving the primary valve.

1,921,024
ALARM SYSTEM
Joseph C. Field, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application January 28, 1931. Serial No. 511,714
1 Claim. (Cl. 177—314)



In a protective system for vaults and the like having a carbon granular transmitter button operated by vibrations imparted to the vault structure, an electrical circuit including said transmitter button, a circuit closing relay controlled by operation of the said transmitter button and an alarm-controlled by said circuit closing relay, a resistance element connected between said transmitter button and said circuit closing relay, said resistance element having the characteristic of slowly increasing in resistance with an increase in current and slowly decreasing in resistance with a decrease in current and preventing slow changes in the resistance of said transmitter button caused by breathing action of the carbon in said transmitter button from effecting operation of said circuit closing relay.

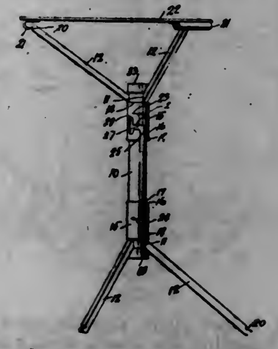
1,921,025
HYDRAULIC SHOCK ABSORBER WITH REMOTE CONTROL AND ADJUSTING DEVICE
Merritt L. Fox, Buffalo, N. Y., assignor to Houde Engineering Corporation, Buffalo, N. Y., a Corporation of New York
Application December 21, 1931. Serial No. 582,342
4 Claims. (Cl. 188—89)



3. In a hydraulic shock absorber comprising a body having a working chamber which is adapted to contain a resistance liquid and in one end of which the liquid is subjected to high pressure and in the opposite end thereof to low pressure, and said body having a regulating conduit connected at one of its ends with the high pressure end of said working chamber and at its opposite end with the low pressure end of the working chamber, a regulating valve arranged in said regulating conduit and having a face of relatively small area subjected to the pressure of the liquid when flowing from the high pressure end of the working chamber and a relatively large area subjected to the pressure of the liquid when flowing from the low pressure end of the working chamber, yielding means tending to move said valve in opening direction, and an adjustable yieldable abutment for limiting opening movement of the valve.

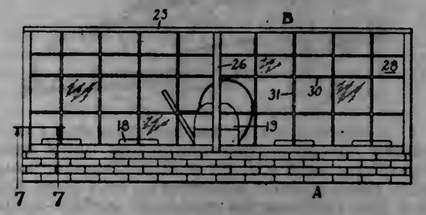
1,921,026
COLLAPSIBLE SUPPORT FOR TABLES, CHAIRS, ETC.
William Germain, New York, N. Y.
Application March 1, 1932. Serial No. 596,056
5 Claims. (Cl. 45—117)

1. A support of the nature described, comprising a hollow post provided with a plurality of slots near one end thereof, a supporting arm passing through each of the slots, a ring on the interior of the post upon which the arms are pivotally mounted, a slotted sleeve on the post in engagement at one end with the arms, and a pin on the post in engagement with the opposite



end of the sleeve when the arms are in extended position and adapted to be brought into alinement with the slot in the sleeve when the said sleeve is rotated to permit same to be slid down on the post to disengage the sleeve from the arms to permit the said arms to be folded.

1,921,027
TOY FOR HORTICULTURAL PURPOSES
Alfred C. Gilbert, North Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Maryland
Application May 17, 1932. Serial No. 611,767
18 Claims. (Cl. 47—17)



1. A toy such as described comprising a portable soil-holding body section having upstanding marginal walls defining a planting space, in combination with a covering section having translucent side and end walls and a translucent top wall, said covering section being movably connected to the body section so that the former can be shifted to a position giving full access to the body section from above.

1,921,028
BRAKE ROD SUPPORT
Harry Glascock, Cincinnati, Ohio, assignor to The P O B Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio
Application August 28, 1931. Serial No. 559,982
8 Claims. (Cl. 188—205)

5. A support for the brake rod of an automobile of the character specified comprising a flexible plate with a cushioning member mounted on said

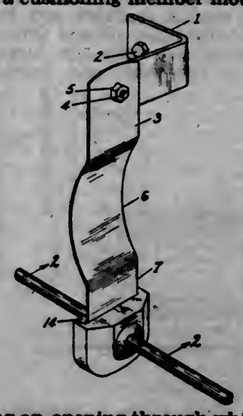
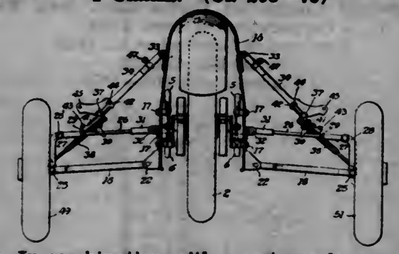


plate having an opening through which the brake rod slidably passes.

1,921,029
TOWABLE MOTOR CYCLE
Albert Laurance Hess, Los Angeles, Calif., assignor to Cycletow Corporation, Ltd., Los Angeles, Calif., a Corporation of California
Application September 1, 1932. Serial No. 631,349
4 Claims. (Cl. 208—75)

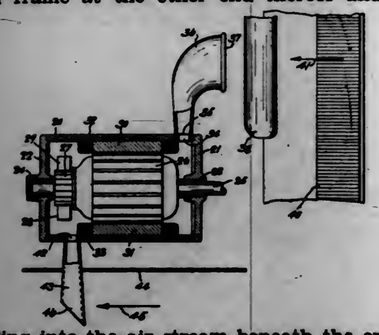


1. In combination with a motorcycle, a pair of auxiliary wheels and axles therefor, a pair of rigid arms pivotally connected with each axle and with the motorcycle constructed and arranged to hold the auxiliary wheels substantially vertical when they are lowered into contact with the ground and to hold the wheels close together when said arms are swung upwardly about their pivotal connections to said motorcycle, and toggle levers connected to the motorcycle on opposite sides above said arms and also respectively to said auxiliary wheel axles, said levers being foldable along middle pivots and having leaf springs comprising their lower sections.

1,921,030
GENERATOR COOLING DEVICE
John B. Hiday, Fortville, Ind., assignor to Delco-Remy Corporation, Anderson, Ind., a Corporation of Delaware
Application September 30, 1931
Serial No. 565,957
5 Claims. (Cl. 290—1)

1. In an apparatus of the character described the combination with an engine having a fan, said engine and fan located within a compartment having a radiator of an automotive vehicle, a generator located in said compartment and comprising a tubular frame and end walls enclosing the windings, an air duct communicating with the interior of the field frame at one end

thereof and located in the current of air flowing through the vehicle radiator and forced rearwardly by the operation of said fan; and an air duct communicating with the interior of the field frame at the other end thereof and ex-



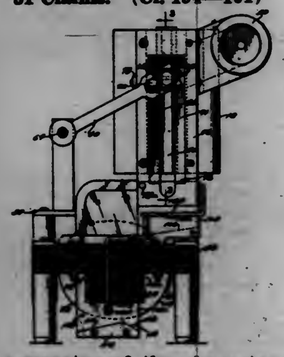
tending into the air stream beneath the engine compartment and having a mouth so constructed and arranged that a substantial vacuum is created at the mouth due to the air current flowing underneath the engine.

1,921,031

ART OF TESTING COINS OR OTHER TOKENS FOR GENUINENESS

Fairfield W. Heban, New York, N. Y., assignor to Fairfield Specialties Corporation, New York, N. Y., a Corporation of New York

Application September 11, 1930
Serial No. 481,189
31 Claims. (Cl. 194—101)



13. An apparatus of the character described comprising means for testing coins, tokens or like devices for electrical resistance, means actuated thereby for controlling the disposition of the devices, and means for passing certain of the devices through a fluctuating magnetic field.

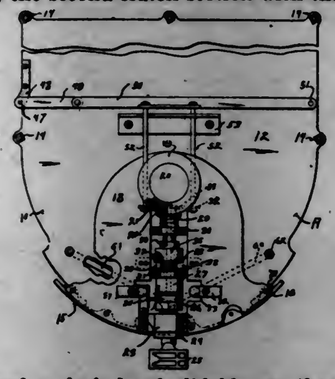
1,921,032

SAFE

Anton Hofer and Felix Danninger, Milwaukee, Wis., assignors to Bergs Manufacturing Company, Milwaukee, Wis.

Application January 21, 1932. Serial No. 587,892
2 Claims. (Cl. 109—3)

1. In a safe structure, a body having an entrance opening and a pair of swinging doors for closing said opening, a hollow shaft for operating said doors, an operating rod slidably mounted in said hollow shaft, a cross strap movable with said rod having locking pins for engaging the shaft for normally holding the same against movement, a clutch section secured to said shaft, a lock including a rotatable barrel, a second clutch section slidable on the barrel toward and away from the first clutch section, means connecting the second clutch section with the oper-



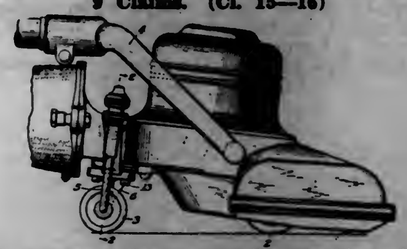
ating rod, a lock head slidable on the hollow shaft for engaging the doors, means connecting the lock head with the operating rod, and means for sliding the second mentioned clutch section on the barrel of the lock upon rotation of said barrel.

1,921,033

SUCTION CLEANER

William H. Kitto, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a Corporation of Ohio

Application February 5, 1931. Serial No. 513,471
9 Claims. (Cl. 15—16)



1. A support for a manually movable tool including spaced surface-contacting units, means supporting said tool on said surface-contacting units tiltably about a horizontal axis at an angle to a line between the points of surface-contact of said surface-contacting units, means resiliently opposing any tilting of said surface-contacting units relative to said tool, said axis being between said units, and adjusting means secured to said surface-contacting units and movable therewith relative to said tool to simultaneously vary the distance between said units and said tool.

1,921,034

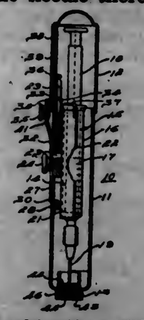
SYRINGE CONTAINER AND EJECTOR

Norman O. La Marche, Detroit, Mich.

Application October 31, 1931. Serial No. 572,417
4 Claims. (Cl. 128—218)

1. An enclosing element for a syringe which completely seals it in carrying position, means for advancing the syringe relative to the element to have the needle thereof project therefrom, and means supported by said enclosing element for sterilizing said needle during said advancement.

3. A casing for encompassing a syringe having an opening at its lower end and a support therein for a syringe having means for advancing said syringe to have the needle thereof project from



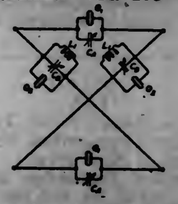
said opening, in combination with a puncturable partition enclosing said opening.

1,921,035

WAVE FILTER

Warren P. Mason, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York

Application September 30, 1931
Serial No. 566,021
5 Claims. (Cl. 178—44)



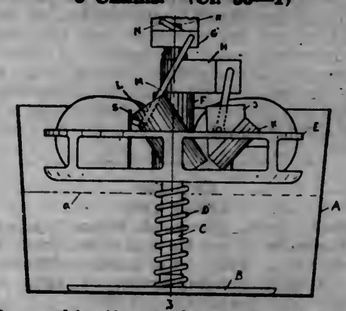
1. A broad band wave filter network comprising four impedance branches equal in pairs and disposed to form a symmetrical lattice, one of said pairs of branches including similar piezo-electric crystals in combination with equal inductances and the other of said branches including similar piezo-electric crystals and having impedances adjusted with respect to the impedances of the first pair of branches to provide a single transmission band of frequencies and a single attenuation band.

1,921,036

EGG TIMER

Robertson Matthews, Detroit, Mich.

Application May 18, 1931. Serial No. 538,131
6 Claims. (Cl. 53—1)



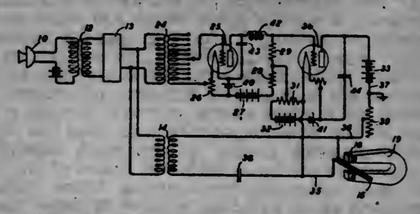
1. In combination with a supporting member, comprising a plurality of relatively movable members one of which is adapted to be rested upon the bottom of a fluid-containing vessel, resilient means for normally supporting one of said members in elevated position relatively to the other, latching means adapted to hold the spring-upheld one of said first named members in depressed position relatively to its companion member against the action of said resilient means, and a thermally responsive member comprising a plurality of relatively movable parts, supported in position of unstable equilibrium in actuative relation to said latch member and adapted to be overturned thereagainst by the attainment by one of such parts of a predetermined temperature and the resultant movement of the other of such parts relatively thereto.

1,921,037

SOUND RECORDING

Kenneth F. Morgan, Los Angeles, Calif., assignor to Electrical Research Products, Inc., New York, N. Y., a Corporation of Delaware

Application October 1, 1930, Serial No. 485,648, and in Great Britain September 4, 1930
7 Claims. (Cl. 179—100.3)



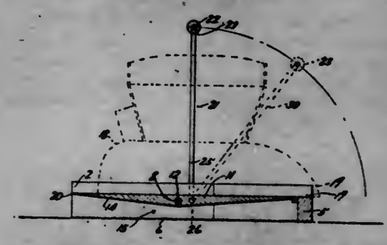
1. The method of recording sound which comprises moving a photographic medium at uniform speed through a beam of light of constant intensity, varying the mean time of exposure of said medium to said beam directly with the envelope of the volume variations of sound recorded and causing virtually complete modulation of the light from said beam falling on said medium for all volumes of sound recorded.

1,921,038

FLATIRON STAND

Walter F. Payne, Rolla, Mo., assignor to J. W. Barley, Rolla, Mo.

Application November 30, 1931
Serial No. 577,991
4 Claims. (Cl. 68—27)



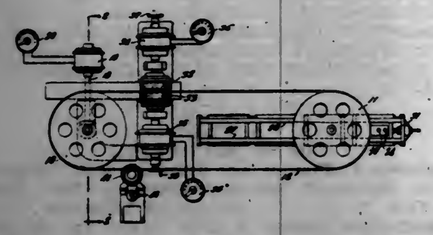
1. In an iron stand, a frame including spaced legs converging adjacent one end, an end piece connecting the converging ends of the legs, the said end piece being cut away below the level of the upper faces of said legs, an iron supporting plate pivotally mounted between and beneath the level of the upper faces of the said legs and tapered to fit loosely within the converging ends thereof, the opposite end of the said plate being adapted to normally swing downward to provide a sloping surface to receive an iron.

1,921,039

METHOD AND APPARATUS FOR MAKING BAND SAWS

Alfred M. Remington, Fitchburg, Mass., assignor to Simonds Saw and Steel Company, Fitchburg, Mass., a Corporation of Massachusetts

Application May 29, 1931. Serial No. 541,046
7 Claims. (Cl. 51—112)



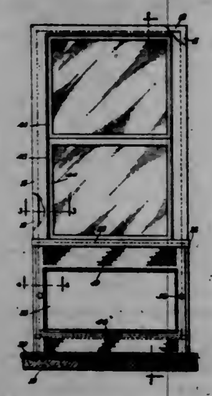
1. The improvement in the art of finishing a surface of a piece of stock, which comprises maintaining a grinding surface in opposed substantially parallel relation with the surface to be finished while causing the stock and the grinding surface to travel in different directions, establishing relative speeds of travel for the stock and for the grinding surface such that the latter leaves grinding marks on the stock extending transversely of the direction of travel of the latter, and subsequently changing these relative speeds to cause grinding surface to leave marks extending along the stock approximately in the direction of travel thereof.

1,921,040

COMBINATION WINDOW AND RADIATOR INCLOSURE

Frank C. Reynolds, New York, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, a Corporation of Delaware

Application September 24, 1929
Serial No. 394,774
12 Claims. (Cl. 189—75)



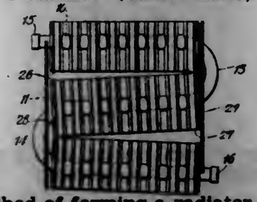
1. A combined radiator inclosure and window frame above it made in a unitary structure with the inclosure located below the level of the window sill and the sides of the frame extending in vertical alinement with the sides of the inclosure.

1,921,041

METHOD OF FORMING RADIATORS

Frank C. Reynolds, New York, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, a Corporation of Delaware

Original application August 27, 1929, Serial No. 388,655, now Patent No. 1,865,962. Divided and this application August 25, 1930. Serial No. 477,511
4 Claims. (Cl. 29—157.3)



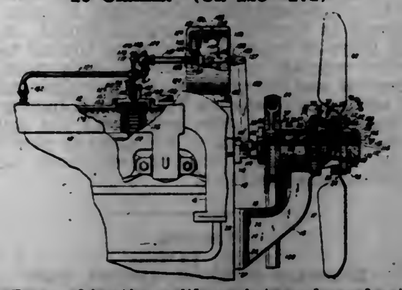
1. A method of forming a radiator of the type described which comprises bending a pipe into substantially parallel lengths spaced in a single plane and with each length secured at one end to the length on one side, and at its opposite end to the length on the opposite side, forming fins on said pipe transverse to said lengths and spanning and extending from one length to another, severing said fins between adjacent lengths, and spreading said lengths apart between the ends free from each other to separate the cut ends of said fins.

1,921,042

FAN

Delmar G. Roos, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey

Application September 19, 1932
Serial No. 633,758
10 Claims. (Cl. 123—171)



1. In combination with an internal combustion engine, a cooling fan therefor, and a power drive for said fan, thermostatically controlled vacuum actuated means for releasing said fan from its power drive whenever the action of the fan is not necessary for the proper cooling of the engine and for connecting said fan with its power drive whenever the temperature of the engine is above a predetermined limit.

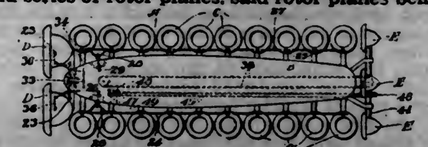
1,921,043

AIRPLANE

William A. Roth, St. Paul, Minn., assignor of two-thirds to Trew F. Poole, St. Paul, Minn., and Henry J. Roth, New London, Minn.

Application September 22, 1930
Serial No. 483,503
9 Claims. (Cl. 244—18)

3. An airship including, a body portion adapted to house the passengers and operators, a series of horizontally disposed rotor motor planes having self-contained motors mounted along each side of said body portion, means for controlling said series of rotor planes, said rotor planes being



adapted to elevate said airship off of the ground, and propelling and guiding rotor planes having self-contained motors carried by said body portion.

1,921,044

BEARING

Stanwood W. Sparrow, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey

Application February 8, 1932. Serial No. 591,581
6 Claims. (Cl. 308—237)



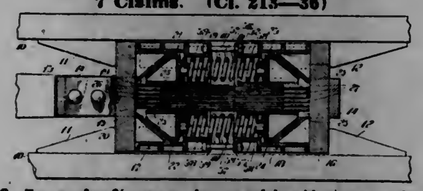
2. A bearing having a soft metal lining, said lining having an annular band portion and an integral band portion at an edge thereof, said second band portion having its inner face spaced radially outwardly from and substantially parallel with the inner face of said first band portion.

1,921,045

DRAFT GEAR

Donald F. Sproul, Chicago, Ill., assignor to Universal Draft Gear Attachment Co., a Corporation of Illinois

Application September 28, 1925
Serial No. 58,971
7 Claims. (Cl. 213—36)



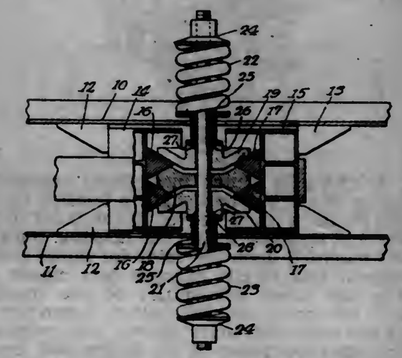
3. In a draft gear, in combination, a pair of opposed follower means comprising a casing, each having internal flaring wedge faces, a pair of wedge shoes cooperating with the named wedge faces of the casing, springs reacting directly between the two follower means, other springs reacting between and directly engaging alined wedge shoes, a group of two sets of intercalating friction plates occupying the central portion of the gear and bearing on the wedge shoes, one set of the plates being loosely anchored to one follower means and the other set to the other follower means to permit slight longitudinal relative movement and projecting into the casing of the other follower.

1,921,046

DRAFT GEAR

Donald F. Sproul, Chicago, Ill., assignor to Cardwell Westinghouse Company, a Corporation of Delaware

Application July 30, 1931. Serial No. 554,039
6 Claims. (Cl. 213—38)



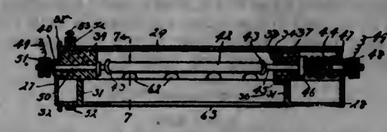
1. In a draft gear, in combination, a pair of opposed followers, cooperating wedging elements interposed between the followers and including a pair of laterally movable members, a straining rod extending loosely through the last-named members, springs mounted on the outer end portions of the rod, seats carried by the rod for the outer ends of the springs, and spring seats for the inner ends of the springs and having sliding engagement with the rod and bearing on the laterally movable wedge members, the engaging faces of such elements comprising an annular tapering boss on one thereof and a complementary socket in the other whereby the apertures in the engaging elements are brought into alignment.

1,921,047

INCINERATOR FIRING ELEMENT

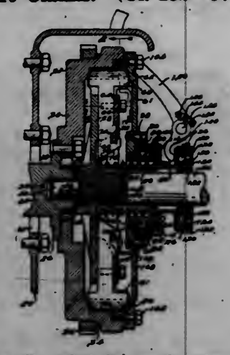
Rowland P. Sword, Philadelphia, Pa., assignor, by mesne assignments, to The Electric Incinerators Corporation, a Corporation of Pennsylvania

Application April 29, 1931. Serial No. 533,641
1 Claim. (Cl. 219—19)



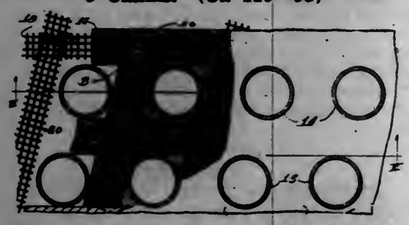
A firing element for use in an incinerator of the character described, comprising a two part housing, the bottom having its ends extended above the body thereof and also having cross ribs and an air inlet formed therein; the top being shorter than said bottom so that the former may be seated between said extended ends, said top also having heat outlet holes and a supporting rib formed therein.

1,921,048
CLUTCH
Horace T. Thomas, Lansing, Mich., assignor to Reo Motor Car Company, Lansing, Mich., a Corporation of Michigan
Application June 29, 1931. Serial No. 547,545
10 Claims. (Cl. 192—57)



1. A hydraulic clutch mechanism comprising a driving shaft, a driven shaft, a housing on one of the shafts, a rotor secured to the other of the shafts and disposed within the housing, impeller blades mounted upon the rotor for radial sliding movement and axially movable cam means engaging the inner extremities of the impeller blades for actuating the latter outwardly to bring the outer extremity thereof into proximity to the inner periphery of the casing and means resiliently urging the blades into contact with the cam means.

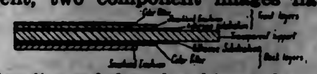
1,921,049
BAFFLE WALL
John J. Tompkins, Chicago, Ill., assignor of one-half to George E. Moore, Chicago, Ill.
Application December 16, 1931. Serial No. 581,391
9 Claims. (Cl. 110—98)



1. A baffle wall for boiler tubes comprising a foundation structure of fibrous cables laid up in substantially horizontal and vertical rows against the tubes, means for tying together said cables in the form of a network, and plastic material applied over said foundation enveloping said cables and said tying means and filling the spaces between the tubes and the cables.

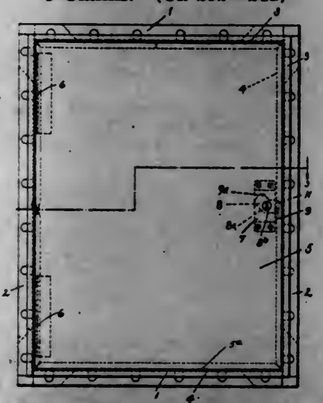
1,921,050
DYE PRINTING PLATE AND SENSITIZED MATERIAL THEREFOR
John Edward Thornton, Jersey, British Isles
Original application June 16, 1930, Serial No. 461,638, and in Great Britain July 3, 1929. Divided and this application April 22, 1932. Serial No. 606,984
9 Claims. (Cl. 95—2)

1. A sensitized film material for producing a duplex dye plate comprising:—(*a*) a transparent support of waterproof and dye-separating material, and an adhesive substratum upon each opposite side of the support; (*b*) a sensitive gelatino-silver emulsion layer upon one side of the support, and color-sensitized to render it selectively sensitive to light-rays of one color-group; (*c*) another sensitive gelatino-silver emulsion layer upon the other side of the support, and color-sensitized to render it selectively sensitive to light-rays of another color-group complementary to the first color-group; (*d*) one emulsion being relatively slow and the other emulsion relatively rapid in speed; (*e*) one emulsion having a relatively smaller and the other emulsion a relatively larger silver-content; (*f*) the two emulsion layers having their different characteristics, speed ratio and silver contents so adjusted, and being combined with color-filters, so chosen, that the two layers will yield by one exposure and development, two component images having the



same density and dye absorbing value; (*g*) both emulsions being made of non-hardened dye-absorbent colloid; (*h*) both emulsions being non-strippable and permanently adhered to their central support; (*j*) a suitable color-filter, applied as a layer before and formed upon, the front emulsion-layer, to filter the light-rays which affect the front emulsion layer; (*k*) another suitable color-filter, applied as a layer before the back emulsion layer, or formed as part of the transparent support before such back emulsion layer, to filter the light-rays which affect the back emulsion layer; (*l*) color indexes to indicate the dye-color to be applied to the front and the back when used as a duplex dye-plate, and to indicate the front side for exposure in the camera; and (*m*) mounting or manipulating devices combined with the film-material, adapting it for use in roll-film, film-pack, or flat-plate forms of cameras.

1,921,051
ACCESS PANEL LATCH
Clifford Traut, Newport, Ky., assignor to The Higgin Manufacturing Company, Newport, Ky., a Corporation of West Virginia
Application September 18, 1930. Serial No. 482,851
5 Claims. (Cl. 292—241)



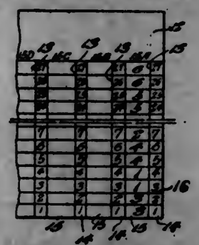
1. A latch structure for use in securing a panel to the outer face of a panel frame rib, comprising a portion of said rib, having a recess in said outer face, a rotary cam member on the inner face of said panel having a portion to enter said recess and pass to the outer face of the rib to force the panel outwardly as the cam member is rotated in one direction, and a portion to pass out of said recess to the inner face of the rib and lock the panel in place as the cam member is rotated in the opposite direction.

1,921,052
WASHING DEVICE
Weeden B. Underwood, Erie, Pa., assignor to American Steriliser Company, Erie, Pa., a Corporation of Pennsylvania
Application February 19, 1931. Serial No. 516,943
2 Claims. (Cl. 141—1)



1. In a washing device, the combination of a closed washing chamber; a water supply pipe; a conduit leading from the supply pipe to the washing chamber, said conduit having inlets open to the atmosphere positioned with relation to the discharge from the supply conduit to induce through the discharge of water a flow of air into the moving liquid in the conduit; and a nozzle on the conduit directed to discharge liquid against an article to be washed in the closed chamber, the inlets forming a vent for the washing chamber.

1,921,053
METHOD OF SETTING LOOM SPOOLS
Robert E. Vickerman, Philadelphia, Pa., assignor to Acme Axminster Loom Spool Company, Incorporated, New York, N. Y., a Corporation of New York
Application November 14, 1931
Serial No. 575,038
9 Claims. (Cl. 28—55.5)
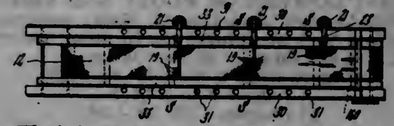


1. The method of setting yarn for winding on loom spools which consists in preparing a card representing by printed indicia the yarn strand arrangement of one row of an Axminster loom design, and manually setting yarn strands on a loom spool in accordance with the indicia of said card.

1,921,054
CLEANING FLUID
Clyde L. Voress, Charleston, W. Va.
No Drawing. Application November 6, 1929
Serial No. 405,279
5 Claims. (Cl. 87—5)

1. A product consisting of a solution of tertiary amyl alcohol, of ligroin whose boiling range is substantially 80°–120° C., and of carbon tetrachloride.

1,921,055
METHOD OF AND APPARATUS FOR PREPARING FISH AND FILLETS FOR STORAGE
Michel P. Vucassovich, Gloucester, Mass.
Application August 7, 1930. Serial No. 473,721
5 Claims. (Cl. 17—5)



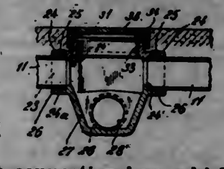
1. That improvement in the method of preparing a skin-bearing fish or fish fillet for use, which consists in freezing the fillet and its skin, softening the skin by heat without appreciably softening the fillet, and stripping the softened skin from the fillet while the latter is frozen.

1,921,056
DUCT FITTING
Hervey S. Walker, Ardmore, Pa.
Application May 29, 1931. Serial No. 540,941
5 Claims. (Cl. 247—31)



4. A run of underfloor duct, which comprises a fitting having sockets at each end for the reception of the ends of duct and a passage therethrough communicating with the duct, and a duct secured in the socket of the fitting and communicating with the passage therein, the end of at least one of said ducts being cut off at a lateral angle to connect with the fitting at an angle and the sides of the corresponding socket being flared to accommodate the increased width of the duct caused by the angular cut end thereof.

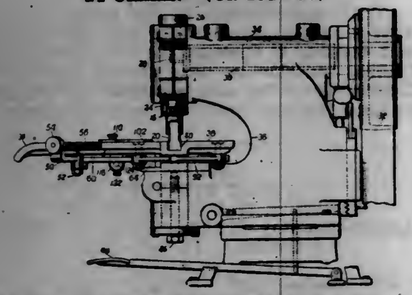
1,921,057
DUCT CONNECTION BOX
Hervey S. Walker, Ardmore, Pa.
Application May 29, 1931. Serial No. 540,942
2 Claims. (Cl. 247—18)



1. A duct connection box, which comprises a hollow body having top and opposite side openings, downwardly and inwardly inclined side walls depending from the body, substantially vertical end walls depending from the body and connected to the side walls, a bottom connecting

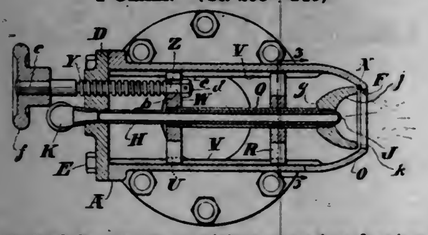
the side and end walls, said walls and bottom forming a well communicating with the interior of the body, the end walls of the well having openings for the reception of the ends of aligned conduits, connected vertical and horizontal flanges formed on the body around the side openings therein for the reception of ends of the ducts lying at a higher level than the conduits connected to the well, a ring threaded on the upper portion of the body for vertical adjustment with respect thereto, and a removable cover on the ring normally closing the top opening of the body for access to the interior and well of the box.

1,921,058
MANUFACTURE OF BOOTS AND SHOES
Harold Warren, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application November 20, 1930
Serial No. 496,959
14 Claims. (Cl. 164—90)



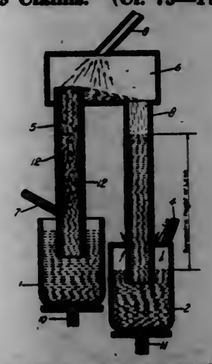
1. In a machine for operating on boot and shoe parts, a work support, a pair of operating tools mounted upon the work support for in-and-out movement toward and away from each other, means for simultaneously adjusting the positions of said tools relatively to the work support, movable edge gages associated with said tools arranged for movement in and out with the tools, and means for simultaneously adjusting the positions of said gages with respect to said tools.

1,921,059
FUEL BURNER
Joseph M. Weil, Phillipsburg, N. J., and Levi Wilson, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey
Application July 6, 1931. Serial No. 548,846
1 Claim. (Cl. 299—140)



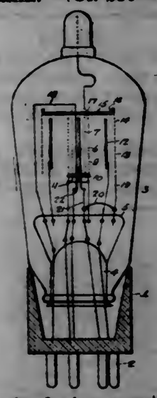
A fuel burner comprising a casing having a chamber, a converging wall on the casing having an outlet opening, a fuel nozzle affixed at one end to the casing and extending longitudinally into the chamber, a sleeve slidable upon the fuel nozzle and in fluid tight engagement therewith, guide ribs upon the inner side of the casing wall, bearing members slidable upon said guide ribs and affixed in spaced relationship to the sleeve, a valve member on the sleeve adapted to coact with the outlet opening of the casing, and means acting upon one of the bearing members to control the pressure fluid outlet by movement of the valve carrying sleeve.

1,921,060
METHOD OF PURIFYING METALS
Clyde E. Williams, Columbus, Ohio
Application March 28, 1931. Serial No. 524,583
9 Claims. (Cl. 75—17)



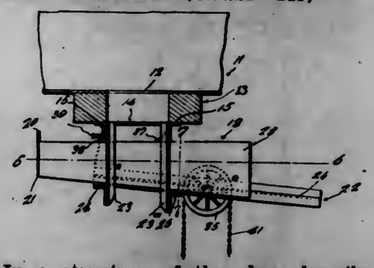
1. A method of purifying metals which comprises lifting a metal in a molten state upwardly through a tube by the introduction of substance in vapor phase under pressure into the metal in such tube, overflowing the metal from the upper end of said tube, and removing gases or vapors therefrom by vacuum.

1,921,061
VACUUM TUBE
Roger M. Wise, Emporium, Pa.
Application August 18, 1932. Serial No. 629,266
1 Claim. (Cl. 250—27.5)



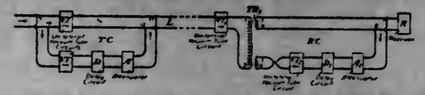
In a thermionic device a cathode, a filament independent of said cathode and adapted to heat the cathode, an anode, a control grid, and an accelerating grid, said grids being interposed between said cathode and said anode with said accelerating grid adjacent said anode, and shielding means at least partially surrounding said anode and connected to said filament whereby flow of space current between said filament and said shielding means is prevented.

1,921,062
BIN CLOSURE
James H. Adams, Circleville, Ohio
Application September 9, 1931. Serial No. 561,975
14 Claims. (Cl. 221—145)



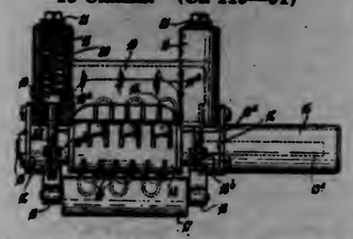
1. In a structure of the class described, in combination, a bin having a discharge opening, a valve seating chute in registry with said opening, supporting and guiding means suspended from the bin below the chute, a valve carried by said means in a position to have a horizontally reciprocating action into and out of closing relationship with the chute, said valve having a rising movement as it approaches closing relationship with the chute to produce a wedge-action closing relationship between the valve and chute, together with remote control operating means for the valve.

1,921,063
TREATMENT OF ECHOES IN TRANSMISSION SYSTEMS
Herman A. Affel, Ridgewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York
Application December 31, 1931. Serial No. 584,207
18 Claims. (Cl. 178—44)



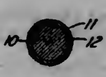
1. In a system in which waves are transmitted to a receiving circuit and in which echoes are introduced, the method of dealing with the echoes which consists in producing in the receiving circuit echoes having the same characteristics as those previously introduced, and opposing to each other in said circuit the transmitted and the locally produced echoes.

1,921,064
HAND MECHANICAL FLEECE DEBURRING MACHINE
Aldred Farrer Barker, Leeds, England, assignor to Robert Vicars, Sydney, Australia
Application February 17, 1931, Serial No. 516,492, and in Great Britain March 22, 1930
16 Claims. (Cl. 119—91)



1. Manually applied de-burring apparatus, comprising in combination a frame, a supporting member, rotatably mounted in the said frame, looped beaters mounted in helical formation on the said supporting member, and means for mechanically rotating the said supporting member.

1,921,065
ELECTRON EMITTER AND PROCESS OF MAKING SAME
Joseph A. Becker, Denville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application September 12, 1927
Serial No. 218,998
11 Claims. (Cl. 250—27.5)



1. The process of making an electron emitter having a core composed of an electro-negative element, and an electro-positive element, which comprises forming an alloy of said elements, drawing said alloy in a reducing atmosphere into a form suitable for a cathode core, treating said core to form a layer of oxide thereon, and diffusing some of said electro-positive element from said core through said oxide layer to the surface thereof.

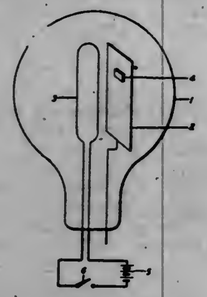
1,921,066
CATHODE FOR ELECTRON DISCHARGE DEVICES AND METHOD OF MAKING THE SAME
Leslie Herbert Bedford, Aldwych, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York
No Drawing. Application August 13, 1929, Serial No. 385,697, and in Great Britain November 16, 1928
2 Claims. (Cl. 250—27.5)

1. The process of manufacturing cathodes for electron discharge devices which comprises providing the surface of the cathode core with a thermionically active earth metal oxide, evacuating said device, depositing on said oxide during evacuation a pure thermionically active earth metal, and causing a space current from said cathode to form an earth metal-earth metal oxide complex on said core, an excess of said pure earth metal being supplied to alloy with said core whereby the latter serves as a reservoir of earth metal for said metal-metal oxide complex.

1,921,067
MANUFACTURE OF THERMIONIC DEVICES
Leslie Herbert Bedford, Aldwych, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York
Application August 13, 1929, Serial No. 385,698, and in Great Britain November 16, 1928
3 Claims. (Cl. 250—27.5)

1. The method of producing a thermionically active earth metal vapor in an envelope of an electric discharge device which consists in introducing into the envelope an alumino-thermic reaction product containing pure thermionically

active earth metal and aluminum oxide, and



thereafter vaporizing therefrom, the pure thermionically active earth metal.

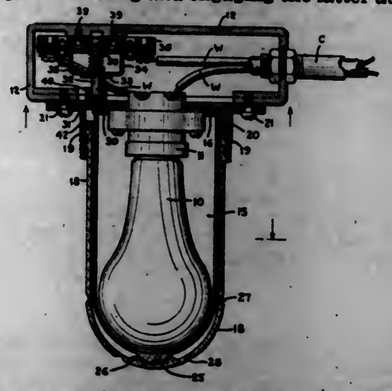
1,921,068
SHAFT FOR GOLF CLUBS AND METHOD OF MAKING
Dwight F. Boyden, Annapolis, Md.
Application March 12, 1929. Serial No. 346,332
2 Claims. (Cl. 273—80)



1. In combination with a shaft of the class described, comprising a lower section provided with a tapering slot terminating at a point above the lower end of the shaft, and an upper section fitted into said lower section and made up of a plurality of strips of bamboo, the pith side of each of which nests onto and is bonded to the enamel side of the strip adjacent thereto, of a head mounted on said shaft with its striking face in a plane substantially perpendicular to the planes of bonding of said strips of bamboo.

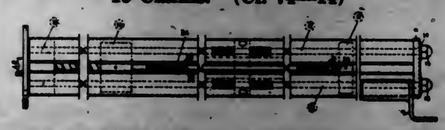
1,921,069
SAFETY LAMP
Stephen N. Buchanan, Elizabeth, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a Corporation of New Jersey
Application September 4, 1931. Serial No. 561,202
12 Claims. (Cl. 240—11.3)

1. A safety light having an electric lamp comprising a lamp socket, a switch connecting with the socket, a transparent casing surrounding the socket and closing the switch when in position, and breakable means around the exterior of the transpartent casing and engaging the latter at its



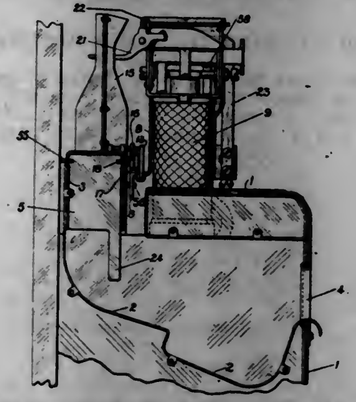
end to support the same in closed switch position.

1,921,070
WINDSHIELD WIPER
Arthur A. Ball and Walter A. Wood, Detroit, Mich., assignors to Handy Governor Corporation, Detroit, Mich., a Corporation of Michigan
Application January 26, 1931. Serial No. 511,226
13 Claims. (Cl. 74—14)



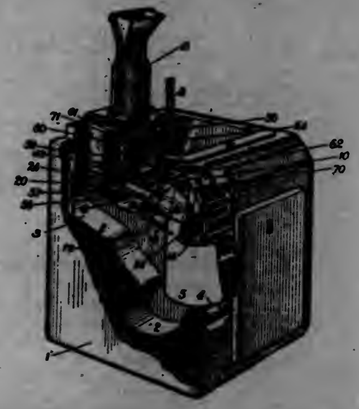
1. A windshield wiper comprising in combination an electric motor and associated driving worm, reciprocating driven mechanism, mechanism for reversing the current and the rotation of the motor and associated worm, and a slip connection between the driving worm and the driven mechanism whereby the inertia of the driving and driven mechanism is absorbed when the current is reversed.

1,921,071
TELEPHONE PAY STATION APPARATUS
William Hopple Edwards, Great Neck, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York
Application November 2, 1932. Serial No. 640,894
16 Claims. (Cl. 179—6.3)
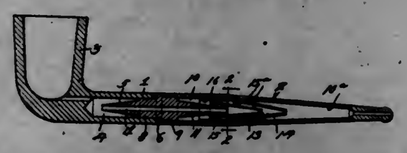


1. In a coin collecting device, a coin control magnet for collecting or refunding coins in accordance with the polarity of current applied thereto, a return chute associated with said magnet and having an exit opening, and means for unbalancing said coin control magnet by the insertion of articles in said return chute through said opening to prevent the coin control magnet from operating upon the application of refund current.

1,921,072
TELEPHONE PAY STATION APPARATUS
William Hopple Edwards, Great Neck, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York
Application November 2, 1932. Serial No. 640,895
15 Claims. (Cl. 179—6.3)



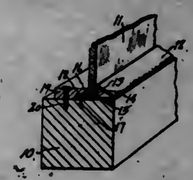
1. In a coin collecting device including a return chute adapted to receive and retain refunded coins temporarily, a magnet for controlling the movement of the coins to said chute and means normally disconnected from said magnet for mechanically causing its unbalance to prevent the movement of coins to the return chute when said chute is rendered inoperative.

1,921,073
PIPE
James C. England, Knoxville, Tenn.
Application October 14, 1931. Serial No. 568,819
2 Claims. (Cl. 131—12)



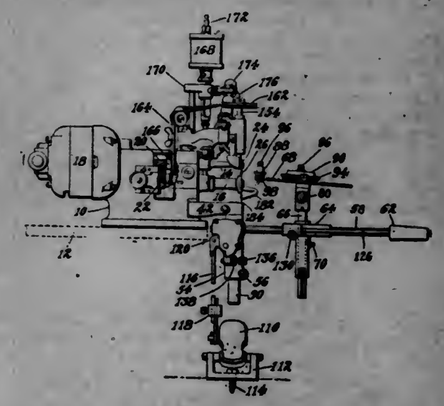
1. The combination with a pipe stem having a chamber therein, a bushing in said chamber and having a smoke passage therethrough, said bushing having a rearwardly extending tapered end, of a baffle member within the chamber of the stem, said baffle member comprising a plurality of frusto conically shaped members, one within the other and axially disposed in spaced relation to each other, chambers extending entirely through said frusto conically shaped members and a cylindrical portion carried by one of said frusto conically shaped members and surrounding in spaced relation the rearwardly extending tapered portion of the bushing.

1,921,074
WINDOW
Louis F. Exner, Niles, Mich.
Application November 8, 1930. Serial No. 494,246
5 Claims. (Cl. 20—56.4)



1. In combination, a window sash, a window pane, means removably carried by said sash and supporting the inner side of said window pane, and means carried by said sash supporting the outer side of said window pane, said last named means comprising a flange secured in face contact to said sash, an angularly inwardly bent portion extending from the outer end of said flange, a glass contacting portion extending from said angular portion, and a flange extending from the glass contacting portion in normally spaced parallel relation to said first named flange and contacting the perimetral edge of said window pane.

1,921,075
TRIMMING MACHINE
Sidney J. Finn, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application January 21, 1930. Serial No. 422,445
14 Claims. (Cl. 164—63)



1. In a trimming machine provided with power-operated trimming means, work-presenting mechanism comprising movable work-supporting means, a track by which said work-supporting means is guided toward and from the trimming means, track-supporting means having a pivotal axis adjacent to the trimming locality about which axis the track may be angularly adjusted, transmission mechanism carried by said track-supporting means for moving said work-supporting means along the track, an operating treadle supported otherwise than by said track-supporting means, and means connecting said treadle and said transmission mechanism at a point adjacent to said axis.

1,921,076
PROCESS FOR THE MANUFACTURE OF ARYL-ALPHA-NAPHTHYLAMINES
John Frei, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware
No Drawing. Application May 12, 1927 Serial No. 190,971
20 Claims. (Cl. 260—128)

1. The process of producing diaryl amines which comprises refluxing in an actively boiling condition at atmospheric pressure alpha-naphthylamine and a primary aromatic amine of the benzene series in the presence of an acidic condensation catalyst.

1,921,077
POULTRY LEG BAND
Theodore A. Gey, Norristown, Pa.
Application January 14, 1933. Serial No. 651,785
5 Claims. (Cl. 40—3)

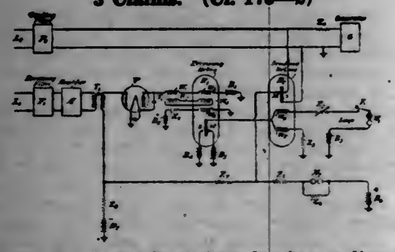


1. A poultry band in the form of a ring having overlying ends, one end having a lug, and the other end having an opening receiving the lug, the end that has the opening being provided with an inclined guiding lip forming a hole, the lugged end having a reduced, bendable, terminal tongue engaged in the hole and deflected thereinto by contact with the lip.

1,921,078
DYEING
Richard Frank Goldstein, Sedgley Park, Prestwich, and Alexander Young Livingstone, Huddersfield, England, assignors to Imperial Chemical Industries Limited, a Corporation of Great Britain
No Drawing. Application September 10, 1931, Serial No. 562,128, and in Great Britain September 19, 1930
10 Claims. (Cl. 23—250)

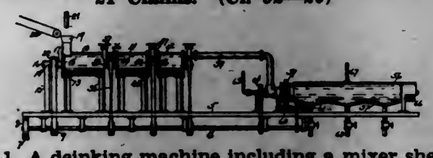
1. Process for stabilizing solutions of 2:3-hydroxy-naphthoic aryl amides by adding a vegetable gum to a freshly prepared or freshly diluted alkaline solution of the aryl amide.

1,921,079
TELEGRAPH SYSTEM
Baxter P. Hamilton, River Edge, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York
Application November 26, 1932 Serial No. 644,523
3 Claims. (Cl. 178—2)



1. In a telegraph system having a line over which signals are transmitted and a line over which signals are received, the combination of a receiving relay, a sending relay, a detector tube which is normally highly biased and is interposed between the receiving line and the receiving relay and acts as a rectifier when so biased, a loop including a key connected to the receiving relay through the sending relay, and means responsive to the breaking of the circuit by the opening of the key at the loop to bring the armature of the sending relay and the armature of the receiving relay into predetermined positions and to maintain these armatures in said predetermined positions as long as the key remains open, said means including means to substantially reduce the bias of the detector tube so that it can not act as a rectifier.

1,921,080
DEINKING APPARATUS
Grant Hammond, New Haven, Conn.
Application January 31, 1930. Serial No. 424,808
21 Claims. (Cl. 92—20)



1. A deinking machine including a mixer shell having an inlet thereto and an outlet therefrom both at the top thereof, a mixer movably mounted in the shell and comprising a plurality of blades supported on a horizontal shaft and movable past one another in adjacent paths, and means for operating said blades.

1,921,081
ROAD REENFORCEMENT AND JOINT
John N. Heltzel, Warren, Ohio
Application March 28, 1929. Serial No. 350,674
10 Claims. (Cl. 94—3)

1. A stake formed from a flat strip and having a one-quarter twist between its ends, the lower end of the stake being adapted to be driven into the ground, and the stake having a slot in its upper end to receive an elongated joint member so that said joint member will lie in a plane substantially parallel to the lower end of the stake.

1,921,082
PIN
Arthur G. Henriksen, Providence, R. I., assignor of one-half to Frank B. Perry, Providence, R. I.
Application June 28, 1932. Serial No. 619,713
7 Claims. (Cl. 24—159)

1. A pin comprising a length of wire bent to form a body including two side bars bent at one end to provide a catch and bent at the opposite end to provide portions extending toward and in line with each other at one end of the body, a flexible pin tongue extending from one of said portions, said tongue normally lying at an angle to the plane of the side bars and

being adapted to be flexed for engagement with said catch, and a cylindrical sleeve member be-



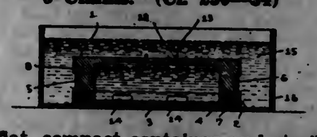
tween said side bars and embracing said aligned portions to hold them in desired position.

1,921,083
METHOD OF CEMENTING SOLES
Chester A. Hill, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application November 30, 1931 Serial No. 578,025
8 Claims. (Cl. 12—146)



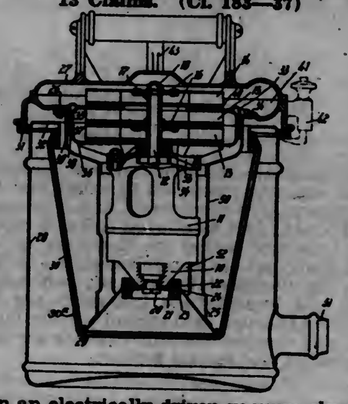
8. That improvement in the preparation of soles for permanent attachment to the uppers of lasted shoes by means of cement which consists in applying a band of cement progressively along the sole, and relatively so positioning the sole and an applying means as the band is applied as to position the band upon one predetermined portion of the sole close to the edge thereof and upon another predetermined portion of the sole spaced from the edge by a defined margin.

1,921,084
STERILIZATION OF RADON SEEDS
Lorenzo D. Kipe, New York, N. Y., assignor to The Radium Emanation Corporation, New York, N. Y., a Corporation of Delaware
Application April 30, 1930. Serial No. 448,666
6 Claims. (Cl. 250—34)



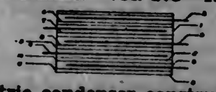
1. A flat, compact container and sterilizer for holding and treating radium emanation seeds comprising in combination a bottom member having a circular horizontal flange for seating a screen thereon and a circumferential vertical rim internally threaded and extending for a short distance above the horizontal flange, a removable screen seated on said horizontal flange, a locking annulus having approximately the width of the horizontal flange whereby the screen is substantially unobstructed so as to permit the sterilization medium to pass therethrough, external threads on said locking member engaging the internal threads of the rim to thereby tightly hold the screen in position, and a cover member provided with a top wall capable of partially absorbing the rays emanating from the seeds and having a circumferential wall externally threaded to engage the internal threads of the rim of the bottom member, the lowermost face of the circumferential wall lying flush with the uppermost face of the locking annulus when the sterilizer is closed, and openings in the top wall of the cover member to permit the escape of air from the sterilizer.

1,921,085
ELECTRICAL VACUUM CLEANER
Karl Koritke, Berlin, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany
Application September 14, 1931, Serial No. 562,719, and in Germany October 18, 1929
13 Claims. (Cl. 183—37)



1. In an electrically driven vacuum cleaner, in combination a dust bucket, a cover for said dust bucket, a motor carrier depending into the dust bucket, resilient motor-supporting means mounted on the lower end of said motor carrier, an electric motor resting endwise on said resilient motor-supporting means, said motor being provided with an upwardly projecting shaft, a suction fan mounted on said shaft, a housing for said suction fan connected to the upper end of the motor, and an annular rubber diaphragm connected around its outer peripheral edge to the upper edge of said motor support and around its inner periphery to the suction fan housing.

1,921,086
ELECTRIC CONDENSER
Duncan Mackenzie Macdonald, London, England, assignor to Radio Patents Corporation, New York, N. Y., a Corporation of New York
Application April 10, 1931, Serial No. 529,072, and in Great Britain April 15, 1930
9 Claims. (Cl. 175—41)

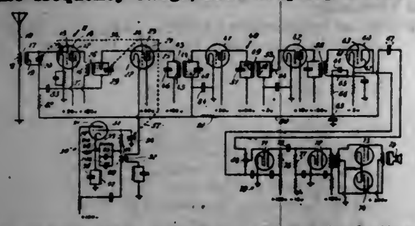


1. An electric condenser constructed of alternate strips of dielectric material and conducting layers, and impregnated in a solution of the dielectric material.

1,921,087
WAVE SIGNALING SYSTEM
William A. MacDonald, Little Neck, N. Y., assignor to Hazeltine Corporation, a Corporation of Delaware
Original application February 13, 1931, Serial No. 515,528, patented October 4, 1932, No. 1,881,235. Divided and this application March 14, 1932, Serial No. 598,640, and in Canada November 13, 1931
8 Claims. (Cl. 250—20)

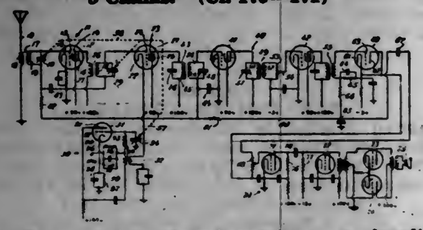
1. A signal response system including a multi-

stage amplifier having vacuum tubes connected in cascade, coupling systems coupling the output of one tube to the input of a succeeding tube, a first portion of said amplifier being responsive to signal voltage corresponding to the frequency of a received signal, a second portion of said amplifier being responsive to signal voltage of an intermediate frequency which is lower than the received signal frequency but higher than the audio frequency range, said coupling means of



said intermediate frequency system including a coil and capacity connected in shunt and tuned to said intermediate frequency, and a second coil coupled to said first mentioned coil and capacity, having a nautral period the frequency of which is lower than that of the received signal but higher than the intermediate frequency, whereby signals of said intermediate frequency are freely transmitted through said second portion but signals of said received signal frequency are highly attenuated in said second portion.

1,921,088
WAVE SIGNALING SYSTEM
William A. MacDonald, Little Neck, N. Y., assignor to Hazeltine Corporation, a Corporation of Delaware
Original application February 13, 1931, Serial No. 515,528, now Patent No. 1,881,235, dated October 4, 1932. Divided and this application March 14, 1932, Serial No. 598,641, and in Canada November 13, 1931
5 Claims. (Cl. 179—171)



1. In a carrier current amplifier, a plurality of vacuum tubes and a plurality of coupling systems for coupling said tubes in tandem, one of said coupling systems being doubly resonant within the transmitting band of frequencies and another of said systems being singly resonant within said transmitting band, said single resonance being located at a frequency between said double resonances.

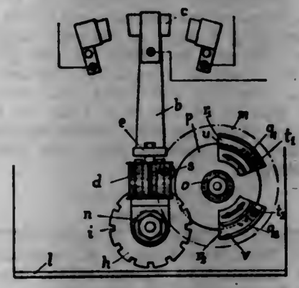
1,921,089
ALUMINUM ALLOY
Karl Leo Meissner, Duren, Germany, assignor to Durener Metallwerke Aktiengesellschaft, Duren, Germany, a German joint stock Company
Application March 30, 1931, Serial No. 526,525, and in Germany April 1, 1930
3 Claims. (Cl. 148—21.1)

1. In the tempering of age-hardenable aluminum alloys containing magnesium in an amount not exceeding 2%, the process of increasing the elongation while preserving at the same time a high yield point consisting in annealing for



twenty to forty hours at a temperature of about 100°–125° C. after the alloy has been heated to the high temperature, quenched, completely aged at room temperature and cold worked.

1,921,090
BELL SWINGING DEVICE
Paul Muller, Neuf-Brisach, Haut-Rhin, France
Application July 3, 1929, Serial No. 375,844, and in France July 11, 1928
2 Claims. (Cl. 177—288)



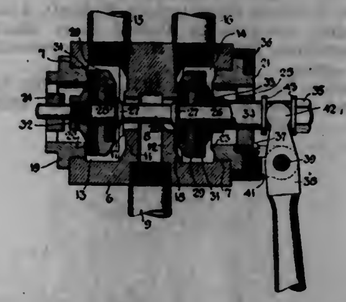
1. In a bell ringing device comprising a motor, a bell adapted to be oscillated by said motor, a shaft, mechanical means connecting the bell and the shaft for oscillating the latter, an electric circuit for the motor and a fixed contact in said circuit, the combination of a freely swivelling contact lever, a contact supported by said lever and arranged to engage the fixed contact of the motor circuit, means to maintain the contact lever in circuit closing position when the circuit of the motor is interrupted, an electromagnet supported by the contact lever and connected in the circuit of the motor, a disc frictionally clutched on the shaft and having peripheral notches, a sliding rod supported by the contact lever and operated by the armature of the magnet to engage with its end one of said notches, a return spring for the rod, a pinion keyed on the shaft, a second pinion meshing with the aforesaid pinion, a disc frictionally held against said second pinion, an adjustable segment upon said disc having a groove with cam-shaped widened guiding walls facing the contact lever, an adjustable abutment in said groove, and a roller supported by the contact lever adapted to engage the groove of said segment when the swing of the bell in one direction exceeds a predetermined amount, substantially as described and for the purpose set forth.

1,921,091
TELLURIUM DITHIOCARBAMATES AND METHOD OF MAKING THE SAME
Paul I. Murrill, East Norwalk, Conn., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y., a Corporation of New York
No Drawing. Application April 1, 1930 Serial No. 440,260
10 Claims. (Cl. 260—11)

2. A tellurium dialkyl dithiocarbamate.

3. The method of producing tellurium dialkyl-dithiocarbamates which comprises causing the tellurous acid radical and an acid to react with a soluble salt of a dialkyl-dithiocarbamate.

1,921,092
MULTIPLE-WAY VALVE
Robert S. Newton, Watertown, N. Y., assignor to The New York Air Brake Company, a Corporation of New Jersey
Application March 23, 1931. Serial No. 524,735
3 Claims. (Cl. 277—14)



1. In a valve mechanism, the combination of a body enclosing two chambers in which alternately pressure is to be established, and a pressure-fluid supply passage communicating with each of said two chambers; supply valve seats reversely arranged relatively to each other and controlling such communications; exhaust valve seats reversely arranged relatively to each other and controlling exhaust passages from said two chambers, the supply and exhaust valve seats for each of the two chambers being reversely arranged relatively to each other and of different areas; and supply and exhaust poppet valve means coacting with the seats of the two chambers and movable as a unit to close simultaneously the supply to either chamber and the exhaust from the other.

1,921,093
SHOE STRETCHER
Carl Oscar Olson, New York, N. Y.
Application March 17, 1931. Serial No. 523,322
15 Claims. (Cl. 12—128.6)



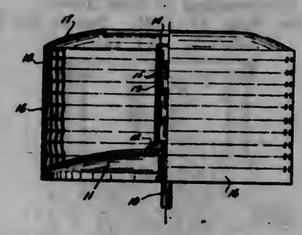
1. In a shoe stretcher, a body member, a toe member pivoted thereto on a vertical axis, a vamp member pivoted to the toe member, and positive means for adjusting the vertical position of the vamp member relatively to the toe member.

1,921,094
BATH SPRAY OR LIKE CONNECTER
John W. Patterson, New Haven, Conn., assignor to The Seamless Rubber Company, Incorporated, New Haven, Conn., a Corporation of Massachusetts
Application March 7, 1932. Serial No. 597,300
4 Claims. (Cl. 285—163)



1. The combination with a faucet having a down-turned discharge end, the discharge extremity having a rounded exterior bead and said faucet having above the bead a short curved portion, of an elastic adapted body having an interior chamber open at the top and an opening through the bottom thereof, a nipple extending through the bottom opening of said body and provided with a flange on the floor of the interior chamber of the body, the wall of said body conforming to and gripping the faucet bead and the curved portion of the faucet above the bead, said wall having a shoulder projecting interiorly therefrom which holds the end of the faucet against the nipple flange.

1,921,095
APPARATUS FOR RENOVATING JOURNAL BOX PACKING
Edwin S. Pearce, Indianapolis, Ind., assignor to Railway Service & Supply Corporation, Indianapolis, Ind., a Corporation of Indiana
Application September 13, 1930 Serial No. 481,660
4 Claims. (Cl. 210—66)



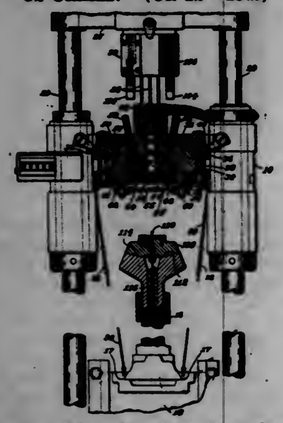
1. In a rotatable container for receiving for treatment fibrous journal box waste, an oil distributing device vertically arranged in said container on substantially the central axis thereof, said device comprising a tubular structure having its lower end closed and secured to the bottom wall of said container and having its upper end provided with an opening to receive oil for distribution or delivery into the waste in said container, the side wall of said tubular structure being provided, from the bottom wall of said container to substantially the top of the side wall thereof, with vertically disposed oil distributing slots said slots being of increasing width from the bottom ones thereof to the top ones thereof, whereby an even distribution of oil by said slots is effected.

1,921,096
ELECTRIC ATTACHMENT PLUG
Johann G. Peterson, West Hartford, Conn.
Application June 18, 1928. Serial No. 286,313
6 Claims. (Cl. 173—343)



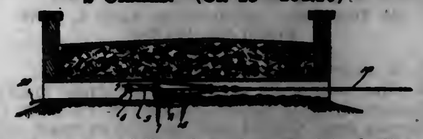
1. In an attachment plug, the combination with a plug body having spaced longitudinal contact apertures on diametrically opposite sides of its axis, shell interlocking means on one end of said body substantially axially located and on diametrically opposite sides of said axis between said apertures and disposed therewith in a zone materially narrower than said body and passing vertically through said axis, and shell supporting means in said zone at the same end of said body disposed substantially around said shell interlocking means and axis, of a shell provided with contact aperture means substantially in said zone and also having in said zone both means interlocked with said interlocking means and means disposed substantially around the latter and supported on said supporting means, an apertured insulating disc outside said shell, connecting means having a connecting member out of contact with said shell and disposed coaxially therewith in said body, an end contact member outside said disc and positioned by said connecting means, and contact members extending into said contact apertures having portions in said zone independent of said interlocking means and on opposite sides of said disc insulated from one another and electrically connected respectively to said shell and end contact member.

1,921,097
FASTENING INSERTING MACHINE
Elmer R. Pope, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application June 14, 1929. Serial No. 370,829
52 Claims. (Cl. 12—19.2)



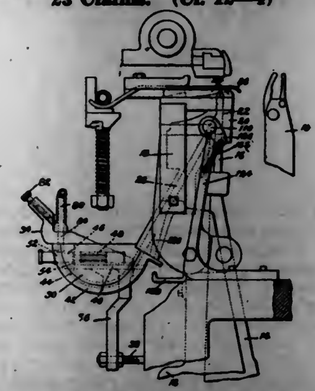
1. In a machine for inserting fastenings, a work-support, and a plurality of fastening-inserting mechanisms each arranged to move toward and from the support about an individual axis, the axes about which the mechanisms move being substantially parallel.

1,921,098
CLEANER FOR PIPES, SEWERS, CULVERTS, AND THE LIKE
Clyde I. Reed, Norwalk, Ohio
Application October 11, 1932. Serial No. 637,830
2 Claims. (Cl. 15—104.30)



1. A device of the class described including an elongated rod, plates having slots through which the rod extends, means for holding the plates clustered together and radiating outwardly from the rod, a nut on the rod, and links pivotally engaged with the nut and with the outer ends of the plates.

1,921,099
MACHINE FOR SHAPING UPPERS OVER LASTS
William Thomas Buckingham Roberts, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application December 29, 1931, Serial No. 583,684, and in Great Britain January 19, 1931
23 Claims. (Cl. 12—4)

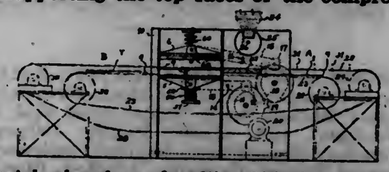


1. In a machine for shaping uppers over lasts, the combination with means for shaping an upper over a last positioned bottom downward, of upper-fastening means movable from an idle position to a position under the last and comprising a driver movable upwardly to drive a fastening into the shoe bottom, a guide for the fastening provided with an upwardly extending passage in alinement with the driver, and means for introducing a fastening into said passage through one side thereof below its upper end.

1,921,100
METHOD OF AND APPARATUS FOR MAKING BUILDING TILES
Octave Schnurer, Pittsburgh, Pa.
Application September 8, 1931. Serial No. 561,624
4 Claims. (Cl. 25—42)

1. The method of forming siding structure and the like which comprises the steps of supporting a metallic reinforcement upon a platen against the bottom of a windowed grid, compressing the material of which the siding structure is to be formed within the windows of such grid, and forcing such material into bonding engagement with the metallic reinforcement upon said platen,

then lowering the platen away from the grid, while freeing the pressed material from such grid and supporting the top faces of the compressed



material, whereby a plurality of blocks are shaped and bonded to the reinforcement in spaced relation and predetermined pattern.

1,921,101
PRODUCTION OF ALIPHATIC DI-CARBOXYLIC ACIDS
Walther Schrauth, Berlin-Wilmersdorf, Germany, assignor, by mesne assignments, to E. I. du Pont de Nemours & Co., Wilmington, Del., a Corporation of Delaware
No Drawing. Application February 10, 1927, Serial No. 167,360, and in Germany February 12, 1926
8 Claims. (Cl. 260—112)

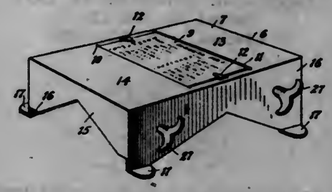
1. The process of producing aliphatic dicarboxylic acids comprising the oxidation of material of the group consisting of hydro-aromatic and alicyclic alcohols and their primary oxidation products by an oxidizing acid in the presence of an oxidation catalyst derived from a polyvalent metal.

1,921,102
ADVERTISING DEVICE
Joseph J. Slattery, Cincinnati, Ohio, assignor to Piggly Wiggly Corporation, Cincinnati, Ohio, a Corporation of Delaware
Application November 25, 1931
Serial No. 577,312
1 Claim. (Cl. 40—132)



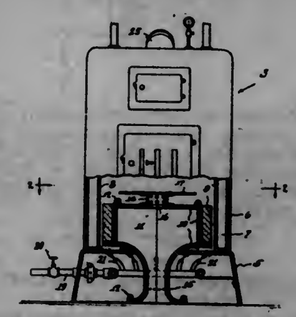
A portable advertisement and display unit for a commodity comprising a pair of rectangular cabinets each having a glass plate in the front panels only, one cabinet adapted for displaying the commodity and being provided with a conventionally convex top and flat bottom, the other for displaying an advertisement and provided with a concave bottom adapted to rest on the top of the commodity cabinet and having a top similar to the top of the commodity cabinet, a pair of electric lamps within the top of said advertisement cabinet adjacent the front and rear walls thereof, a removable panel in said cabinet for supporting the advertisement, said panel resting on a foot portion and having its upper edge positioned between said lamps for support, substantially as set forth.

1,921,103
RADIO LOG AND HOLDER THEREFOR
Frank A. Smith, Bloomfield, N. J.
Application May 11, 1932. Serial No. 610,575
2 Claims. (Cl. 40—36)



1. A device for conveying information regarding radio programs and the like, comprising a paper strip on which radio information interspersed with advertising matter is printed, a holder for receiving the strip in rolled form, said holder comprising a casing having a pair of spaced spindles terminating in hand-engaging portions for rotating the same, a pair of slits in the top of the casing through which the paper strip extends, a depressed portion on the top of the casing between the slits on which the part of the strip located between the slits rests, indicating pointers pressed out of the material of the casing top and extending over the longitudinal edges of the strip, side portions on the casing having their lower ends terminating in laterally bent feet for supporting the casing, and a tension member for the strip comprising a spring secured to one of the sides of the casing and having extended ends frictionally bearing on the spindles.

1,921,104
GAS OR OIL HEATING DEVICE
Titus K. Smith, Westfield, N. J.
Application May 21, 1931. Serial No. 539,032
2 Claims. (Cl. 122—156)



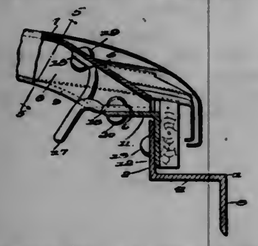
1. In combination with a furnace having an annular water compartment and a base below said compartment, a chambered member mounted in the base and extending above the lower edge of the water compartment and having an exterior wall of refractory material close to but spaced from the wall of the water compartment to provide an annular space therebetween, and a series of burners disposed in the base in surrounding relation to the chambered member and provided with an annular series of jets directed toward the wall of the water compartment, the chambered member having air inlets at its bottom and air outlets at the top.

1,921,105
FUEL FEED CONTROL FOR OIL BURNERS
Leolyn F. Spear, Westfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a Corporation of Massachusetts
Application September 25, 1931
Serial No. 565,139
5 Claims. (Cl. 137—68)



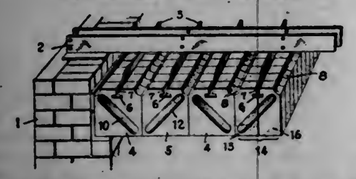
1. In a fuel feeding system for oil burners, a reservoir having an opening in its top and an outlet opening for connection to the burner, an open mouthed oil receptacle mounted in inverted relation with the mouth portion extending downwardly through said opening into the reservoir, a perforated closure for the mouth of said receptacle, a spring pressed valve in said receptacle normally closing said perforation, an abutment in said reservoir to engage and open said valve, and means for lowering said abutment to cause said valve to close and for subsequently raising it to open said valve.

1,921,106
RAILWAY CAR
Earl R. Swanson, Chicago, Ill., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Delaware
Application June 3, 1929. Serial No. 368,025
2 Claims. (Cl. 105—5)



1. In a railway car, the combination with side plates, of carlines, brackets connecting the side plates and carlines, and load lifting means involving a member rigidly secured to one of said carline brackets and an adjacent portion of the associated carline.

1,921,107
SUSPENDED ARCH FOR FURNACES AND TILE THEREFOR
Clarence L. Todd, Pittsburgh, Pa.
Application July 30, 1932. Serial No. 627,005
13 Claims. (Cl. 72—55)

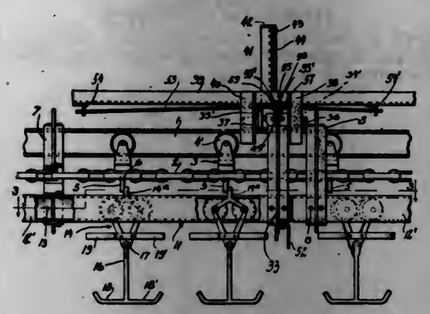


7. A tile for a suspended arch comprising a block having its opposite edges substantially parallel and having a crossed tongue and groove, both the tongue and the groove being oblique to the edges of the block, the tongue on one side face of the block, and the groove on the other side face.

1,921,108
TENNIS AND THE LIKE PLAYING BALLS
Douglas Frank Twiss, Wylde Green, Birmingham, Albert Edward Tenny Neale, Ward End, Birmingham, and Albert Stanley Carpenter, Walmley, Birmingham, England, assignors to Dunlop Rubber Company, Limited, Birmingham, England, a British Corporation
No Drawing. Application February 28, 1933, Serial No. 659,025, and in Great Britain March 1, 1932
12 Claims. (Cl. 273—61)

1. A method for maintaining or rehabilitating the inflation value in permanently sealed objects, particularly tennis and the like playing balls, which is impaired by permeability of the envelope, which comprises continuously generating gas at a rate inside the object of substantially the same magnitude as the rate of gas loss therefrom by embodying within the object a substance or substances capable of generating gas at a rate equal to the rate of gas loss therefrom.

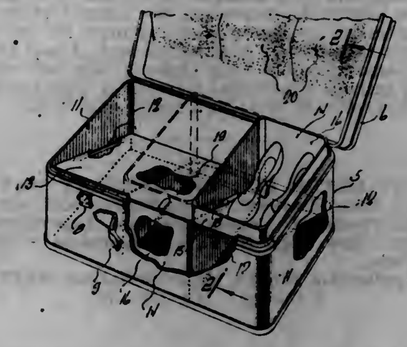
1,921,109
CONVEYER SYSTEM
Jervis B. Webb, Royal Oak, and Duane A. Blair, Detroit, Mich.
Application September 12, 1929
Serial No. 392,104
14 Claims. (Cl. 104—95)



1. A conveyer system comprising a track, propelling means supported by said track, a main trackway located at a predetermined distance below and in vertical alignment with said track, an auxiliary trackway terminating at the side of said main trackway, load-carrying means adapted to be supported by said main and auxiliary trackways, portions of said propelling means being disposed in overlying abutting relation with said load-carrying means located on said main trackway, and switch means for diverting at will the load-carrying means from said main trackway to said auxiliary trackway.

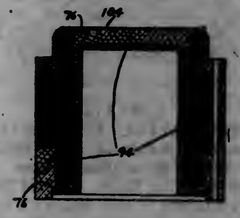
1,921,110
LUGGAGE
George Henry Wheary, Racine, Wis., assignor to Wheary Trunk Company, Racine, Wis., a Corporation of Wisconsin
Application February 3, 1930. Serial No. 425,616
14 Claims. (Cl. 190—41)

1. In a device of the character described, an article carrier, a handle for said carrier, a partition member, means mounting the partition member in the carrier to divide the same into two compartments of approximately trapezoidal shape in transverse section, whereby shoes may



be received in the compartments with their heel portions at the compartment sides of greatest depth, and means for holding the shoes against shifting.

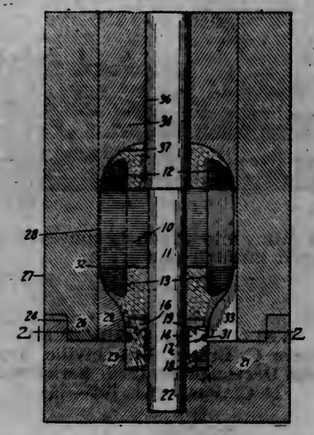
1,921,111
DYNAMO ELECTRIC MACHINE STATOR WITH NONCORROSIVE LINING
Vincent G. Apple, Dayton, Ohio; Herbert F. Apple, Edward M. Apple, and Gourley Darroch executors of said Vincent G. Apple, deceased
Application December 15, 1930. Serial No. 502,331
1 Claim. (Cl. 172—36)



A dynamo electric machine stator structure comprising a self-contained hollow cylindrical body composed wholly of hardened insulation, a hollow magnetizable core, a winding, and terminals for said winding all imbedded and sealed in the walls of said cylindrical body, no part of said core, winding or terminals extending through to any of the surfaces of said cylindrical body except the one side of each of the said terminals.

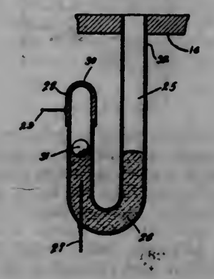
1,921,112
WIRE WOUND ARMATURE
Vincent G. Apple, Dayton, Ohio; Herbert F. Apple, Edward M. Apple, and Gourley Darroch executors of said Vincent G. Apple, deceased
Application February 3, 1930. Serial No. 425,687
6 Claims. (Cl. 171—266)

1. In an armature, a magnetizable core, a winding of insulated wire on said core, a commutator comprising a plurality of metal segments insulatedly spaced apart in a hub in axial alignment with said core and having its segments attached to flexible leads emanating from said winding, and a separate concentric collar of hardened insulating cement extending from the core to the hub of the commutator cementing them together thereby maintaining their spaced apart



relation, said winding being imbedded in and surrounded by said collar.

1,921,113
DISPLAY DEVICE
John H. Benya, Lakewood, Ohio
Application November 22, 1930
Serial No. 497,426
13 Claims. (Cl. 200—46)

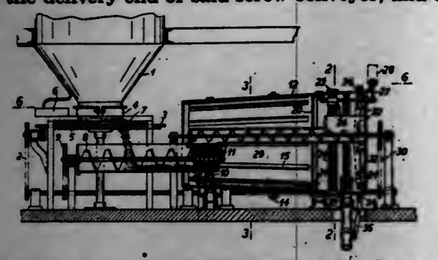


1. A switch comprising a J-tube, a fluid body of conducting material in the bend of said tube adapted to rise in the shorter leg thereof, means closing the upper end of said shorter leg to the passage of said conducting material while allowing free movement of air, spaced contact elements in said shorter leg constituting a gap in an electric circuit adapted to be connected by said material, and means for selectively applying pressure in the longer leg of said tube above said material.

1,921,114
METHOD AND APPARATUS FOR PRODUCING ROLLED BODIES FROM POWDEROUS MATERIALS
Carl Adolf Brackelsberg, Hemer, Germany
Application November 30, 1929, Serial No. 410,770, and in Germany December 3, 1928
8 Claims. (Cl. 18—5)

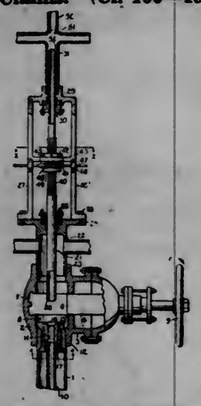
1. A machine for producing rolled bodies from powderous material, comprising in combination a charging hopper, a rotary plate under said hopper, a screw conveyer under said plate, a grate

in the delivery end of said screw conveyer, and a



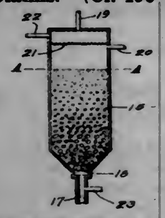
rotatable drum into which is conveyed the material forced through said grate.

1,921,115
WELL HEAD EQUIPMENT
Cicero C. Brown, Hebronville, Tex.
Application December 12, 1929. Serial No. 413,475
14 Claims. (Cl. 166—15)



1. In combination with a well head equipment embodying a separable string of tubing, a tubing hanger including a slotted flange support, a collar on the tubing having flow passages therethrough, a set of outstanding lugs on said collar arranged to pass thru said slotted flange and be rotated to a position beneath said flange whereby upward movement of said hanger is prevented.

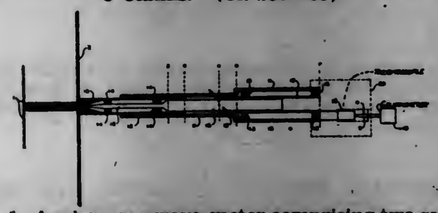
1,921,116
PROCESS OF NEUTRALIZATION
Lyle Caldwell, Long Beach, Calif., assignor, by mesne assignments, to California First National Bank of Long Beach, Long Beach, Calif., a national banking association, as trustee
Application April 25, 1930. Serial No. 447,275
19 Claims. (Cl. 196—41)



1. A process of neutralization which comprises: contacting acid hydrocarbon oil with a mineral containing MgO and moistened by aqueous fluid whereby soluble acid reaction products are formed, and removing such products by washing the mineral with water.

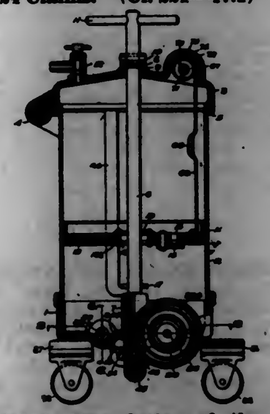
11. A process of neutralization which comprises: intermingling hydrocarbon liquids containing acid with an aqueous solution of magnesium hydroxide, increasing the concentration of magnesium hydroxide in said solution by the addition thereto of a magnesium salt of said acid, and separating the hydrocarbons from said solution without substantial increase of temperature in said solution while both are in fluid form.

1,921,117
WAVE-METER FOR ULTRA-SHORT WAVES
René Henri Darbord, Paris, France, assignor to International Communications Laboratories, Inc., New York, N. Y., a Corporation of New York
Application July 10, 1931. Serial No. 549,927
3 Claims. (Cl. 250—39)



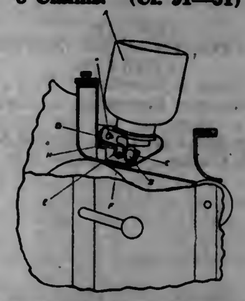
1. A micro-ray wave-meter comprising two sections of transmission line of fixed length and a section of transmission line of variable length intermediate said two sections, wherein for the range of frequencies to be measured the characteristic impedance of the variable length section is large as compared to that of either fixed length section, and means for adjusting the length of the intermediate section to indicate the length of the wave being measured.

1,921,118
LUBRICATING APPARATUS
Edwin R. Dayton, Ashland, and Walter H. Rudolph, Brookline, Mass.
Application May 15, 1929. Serial No. 363,300
24 Claims. (Cl. 221—47.1)



9. In a lubricating device of the class described, a container, means for supplying fluid under pressure to said device, a pair of cylinders connected with said means, means connecting said cylinders and container, a pair of differential plungers operable in said cylinders and each being of different pressure exerting effect, an exit conduit common to both of said cylinders, and means to lock one differential plunger against operation when desired to reduce the quantity of lubricant to be forced to the exit conduit.

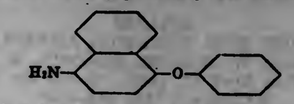
1,921,119
ENVELOPE SEALING MACHINE
Elmer E. Gray, Saugus, Mass.
Application October 29, 1931. Serial No. 571,839
8 Claims. (Cl. 91—51)



3. In a device of the kind described, a supporting arm, a holding bracket loosely mounted thereon, and a roller mounted on said holding bracket in loose bearings.

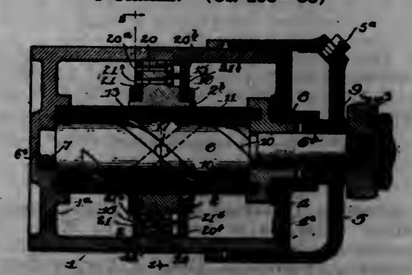
1,921,120
AMINO ALPHA-PHENOXY NAPHTHALENE
Ernest F. Grether, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan
No Drawing. Original application March 19, 1929, Serial No. 348,262. Divided and this application April 15, 1931. Serial No. 530,441
4 Claims. (Cl. 260—130.5)

4. As a new compound, 1-amino-4-phenoxy naphthalene having probably the formula,



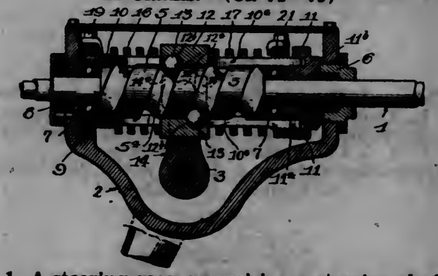
and having a melting point of 54° C.

1,921,121
SHOCK ABSORBER
Drew Head, Chicago, Ill.
Application December 23, 1931. Serial No. 582,694
8 Claims. (Cl. 188—88)



1. A shock absorber comprising a cylinder mounted on the body of the vehicle, a piston in said cylinder adapted for movement axially thereof, a shaft extending axially of said cylinder and having operative connection exterior said cylinder with the axle of the vehicle, said piston having connection with said shaft through the medium of a pin and helical slot connection whereby rotation of said shaft imparts an axial displacement of said piston in said cylinder, the spaces in said cylinder on opposite sides of said piston being filled with a liquid and said piston having groups of passages therethrough for the passage of said liquid from one side to the other thereof, a valve plate mounted on said piston and having slots for successively opening and closing said passages, and means for rotating said valve plate relative to said piston whereby the combined area of said passages is maintained proportional to the displacement of said piston from its normal position.

1,921,122
STEERING GEAR MECHANISM
Drew Head, Chicago, Ill.
Application May 8, 1933. Serial No. 669,869
11 Claims. (Cl. 74—79)



1. A steering gear comprising a steering shaft, a worm on said steering shaft, a fixed sleeve surrounding said worm and having a longitudinal slot, a collar slidably mounted on said sleeve and having a portion projecting through the slot in said sleeve and having driving engagement with said worm, and a rock shaft operatively connected with said collar.

1,921,123
AFTER TREATMENT OF FILAMENTS
Conrad Herrmann, Wuppertal-Elberfeld, Germany, assignor to American Glanzstoff Corporation, New York, N. Y., a Corporation of Delaware
Application March 8, 1932, Serial No. 597,510, and in Germany April 27, 1931
6 Claims. (Cl. 18—8)



1. In a device of the character set forth, a tank bottom, a standing perforated pipe rigidly connected therewith, an inlet through the tank bottom through which treating liquids may pass, an-

other inlet joining the said pipe at spaced intervals throughout its length, flexible gaskets surrounding the said pipe at spaced intervals, and inlets from the second named inlet pipe by means of which pressure may be applied within the gaskets in order to swell them.

1,921,124

ICE CREAM AND PROCESS OF PREPARING SAME

Willy O. Herrmann and Wolfram Haehnel, Munich, Germany, assignors to Consortium fur Elektrochemische Industrie, Munich, Germany, a Corporation

No Drawing. Application August 23, 1932, Serial No. 630,060, and in Germany July 23, 1931
10 Claims. (Cl. 99—11)

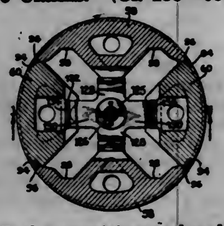
1. The process comprising adding polymerized vinyl alcohol to an ice cream mix, and subjecting the mass to a freezing temperature.

1,921,125

MANDREL

Thomas L. Hughes, Youngstown, Ohio, and Albert E. Twist, Jr., Rutherford, N. J., assignors to Raymond Concrete Pile Company, New York, N. Y., a Corporation of New Jersey

Application October 2, 1931. Serial No. 566,400
35 Claims. (Cl. 153—69)



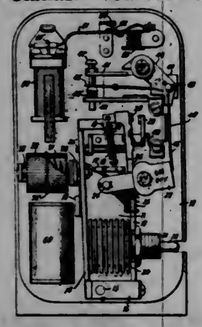
34. A mandrel comprising a plurality of sectors, means for moving some of said sectors inwardly in successive order, means co-acting with the aforesaid means for restoring the sectors to their original positions, and means for rotating said sectors as a unit.

1,921,126

COMBINED AUTOMATIC AND MANUAL CIRCUIT CONTROLLER

Leonard P. Hutt, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York

Application December 5, 1929. Serial No. 411,961
18 Claims. (Cl. 200—81)



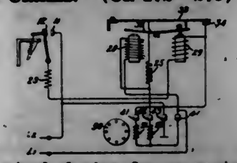
1. In a circuit controlling device, the combination of a stationary contact and a movable contact movable into and out of engagement therewith, at least three separate operating means for said movable contact, and connections between each operating means and the movable contact for effecting movement of said movable contact out of engagement with said stationary contact, the connections of at least a plurality of said operating means being arranged to permit the said operating means to effect movement of the movable contact into engagement with said stationary contact.

1,921,127

VOLTAGE COMPENSATED REFRIGERATOR STARTER

Leonard P. Hutt, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York

Application April 30, 1930. Serial No. 448,731
9 Claims. (Cl. 172—279)



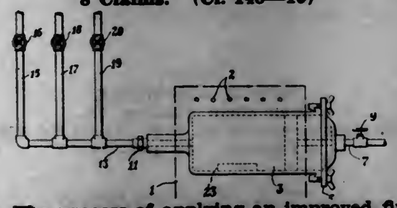
1. In a control device for a motor having a running winding and a starting winding, a switch for energizing said motor, a circuit controlling device for connecting the starting winding of said motor to be energized upon starting the motor, a plurality of electro-responsive devices for said circuit controlling device, one of said electro-responsive devices being connected to be responsive to the voltage across the starting winding to actuate said circuit controlling device to open the circuit to the starting winding, and another of said devices being responsive to the current through said running winding for rendering said first device ineffective while said motor is being started.

1,921,128

FINISH FOR FERROUS ARTICLES

Adolph W. Machlet, Elizabeth, N. J.

Application April 21, 1930. Serial No. 445,981
8 Claims. (Cl. 148—16)



4. The process of applying an improved finish to ferrous articles, which consists of nitrogenizing, furnace oxidizing to a uniform dark gray color and gunmetalizing same.

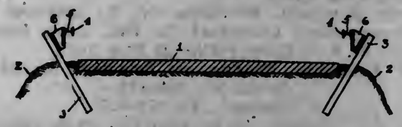
1,921,129

HIGHWAY GUARD

Lee H. Miller, Cleveland Heights, Ohio; Annie G. Miller, executrix of said Lee H. Miller, deceased; assignor to The Armorsteel Roadguard Company, Cleveland, Ohio, a Corporation of Ohio

Application April 4, 1931. Serial No. 527,711
9 Claims. (Cl. 256—13.1)

1. In a highway guard rail fabricated from standard structural steel forms, the combination of a plurality of H-beam supporting posts, rail-carrying members secured to said posts, said members being in the form of I-beam sections, and rail members in the form of flat plates carried by said I-beam members, the ends of said rail members overlapping each other on adjacent posts.



1,921,130

MANUFACTURE OF RUBBER ARTICLES

Edward Arthur Murphy, Erdington, Birmingham, Eric William Bower Owen, Walmley, and Douglas Frank Twiss, Wylde Green, England, assignors to Dunlop Rubber Company Limited, London, England, a British Company

No Drawing. Application August 6, 1931, Serial No. 555,528, and in Great Britain October 20, 1930
14 Claims. (Cl. 18—58)

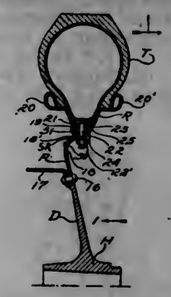
1. A process for the manufacture of rubber articles from aqueous dispersions of the type described which comprises bringing uncoagulated layers of the aforesaid dispersions into contact with scattered particles of agents which effect concurrent coagulation and contraction.

1,921,131

VEHICLE WHEEL

Emil A. Nelson, Detroit, Mich.

Application April 23, 1930. Serial No. 446,475
7 Claims. (Cl. 301—11)



1. In a disc wheel for the reception of a removable rim: a peripheral member providing both a rim-seating web and a flange, extending radially inward and continuous with said web, for the retention of a ring radially inwardly opposite a rim on said web,—said member including also an annular corrugation providing a shoulder for engagement by said ring.

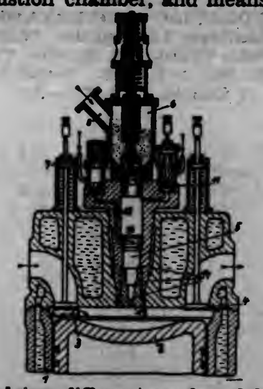
1,921,132

POWDERED FUEL ENGINE AND METHOD OF OPERATING THE SAME

Rudolf Pawlikowski, Goerlitz, Germany

Original application February 10, 1928, Serial No. 253,510, and in Germany June 14, 1927. Divided and this application September 3, 1929. Serial No. 390,697
11 Claims. (Cl. 122—23)

1. In a powdered fuel engine, a combustion chamber, means for feeding powdered fuel into said combustion chamber, and means for separately supplying different grades of fuel powder to said feeding means.

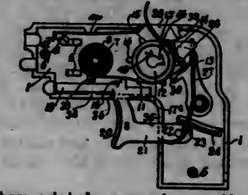


1,921,133

TOY PISTOL

Edward S. Peake, Westerville, Ohio, assignor to The Kilgore Mfg. Company, Westerville, Ohio, a Corporation of Ohio

Application September 29, 1932
Serial No. 635,349
20 Claims. (Cl. 42—57)



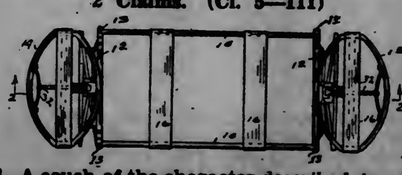
1. In a toy pistol, a reciprocating trigger, a pivoted hammer operated by the trigger, a rotary feeding wheel anvil, said pistol having means for supporting a roll of perforated ammunition engageable with said feeding anvil, pins on said feeding wheel anvil for engaging said perforations, and means on the trigger to engage the pins to rotate the anvil.

1,921,134

SANITARY COUCH

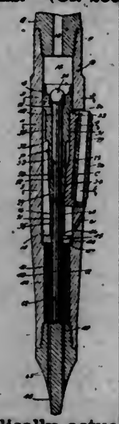
Gustave Rapprich, West New York, N. J.

Application January 20, 1932. Serial No. 587,658
2 Claims. (Cl. 5—111)



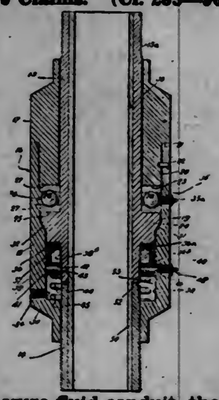
1. A couch of the character described, in which frames at the head and foot thereof are mounted on cross rods of tubular form, axial members passing through and projecting from the said cross rods, side frame members one at each side rigidly attached to the respective projecting ends of the axial members and forming with the axial members a main frame structure, and revolvable elements mounted on the said axial members, leg frames attached to the said revolvable elements, and means to lock the said leg frames and head and foot frames in specific angular relation to the main frame structure of the said couch.

1,921,135
HYDRAULIC UNDERREAMER
James J. Santiago, Los Angeles, Calif., assignor to John Grant, Los Angeles, Calif.
Application March 7, 1930. Serial No. 434,155
7 Claims. (Cl. 255—74)



1. In an hydraulically actuated underreamer, the combination of a tubular body with cutter-receiving slots through its tubular wall, cutters movable inwardly and outwardly in said slots, a plunger having a part fitting the body interior to receive fluid pressure from above, the plunger and cutters being so formed that downward movement of the plunger under fluid pressure causes outward expansive movement of the cutters, means tending to move the plunger upwardly, said plunger having a collar located below the lower ends of the cutters and which is moved upwardly along with the plunger and into clamping contact with the lower ends of the cutters.

1,921,136
SWIVEL JOINT
James J. Santiago, Los Angeles, Calif., assignor to John Grant, Los Angeles, Calif.
Application March 24, 1931. Serial No. 524,777
10 Claims. (Cl. 285—96)



7. In a pressure fluid conduit, the combination comprising, a pair of outside pressure resisting metal pipe lengths, a swivel joint connecting said pipes and permitting relative rotation between the pipes, a body surrounding the ends of the pipes, and a removable flexible liner within said pipes and extending continuously through said swivel joint.

1,921,137
COMPOSITION FOR TREATING WATER USED IN AIR CONDITIONING APPARATUS AND THE LIKE
Morris Schlissel, Brooklyn, N. Y., assignor to Cosmopolitan Chemical Co. Inc., Long Island City, N. Y., a Corporation of New York
No Drawing. Application February 3, 1932 Serial No. 590,678
2 Claims. (Cl. 87—27)

1. A composition to be added to water used in air conditioning apparatus for preventing corrosion, congestion and rust in said apparatus consisting of the following ingredients and their reaction products: water approximately 6.78 per cent, caustic soda approximately 1.45 per cent, sodium bichromate approximately 1.16 per cent, soda ash, approximately 2.90 per cent, di-sodium phosphate approximately 1.63 per cent, sodium silicate approximately 86.08 per cent, and tannin .006 per cent.

1,921,138
PRODUCTION OF MENTHENE
Walter Schoeller and Erwin Schwenk, Berlin-Westend, and Erich Borgwardt, Berlin-Pankow, Germany, assignors to Schering-Kahlbaum A. G., Berlin, Germany
No Drawing. Application March 13, 1931, Serial No. 522,516, and in Germany March 20, 1930
3 Claims. (Cl. 260—167)

1. The method of producing 3-menthene comprising acting on 1-menthene at a temperature between 250 and 450° C. with a surface catalyst and separating 3-menthene from the mixture resulting in the reaction.

1,921,139
DISCHARGE TUBE
Paul Selényi, Budapest, Hungary, assignor to Egyesült Izzólámpa és Villamossagi rt., Ujpest, Hungary, a Corporation of Hungary
Application May 13, 1930, Serial No. 451,999, and in Austria and Hungary May 28, 1929
4 Claims. (Cl. 250—27.5)

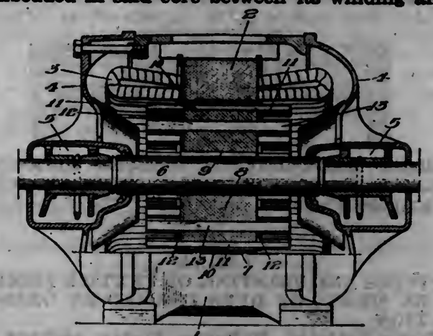


1. In combination with a hollow quartz glass body, a glass rod extending through the wall and into the interior of said glass body and in contact with and sealed in this wall, and a continuous electrically conductive coating on those parts of said glass rod, which extend outside, inside and through the wall of said glass body, said coating forming a conductor adapted to lead the electrical current across the wall of said body.

1,921,140
DYNAMO-ELECTRIC MACHINE ROTOR AND A METHOD OF COOLING THE SAME
Harold L. Smith, Milwaukee, Wis., assignor to The Louis Allis Company, Milwaukee, Wis., a Corporation of Wisconsin
Application December 14, 1929. Serial No. 414,065
8 Claims. (Cl. 171—252)

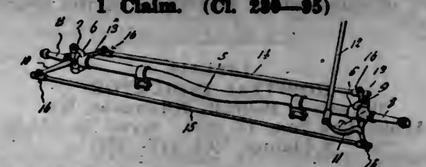
8. A dynamo electric machine rotor, comprising a laminated core having a winding, a shaft

to carry said core, and bars of non-ferrous metal embedded in said core between its winding and



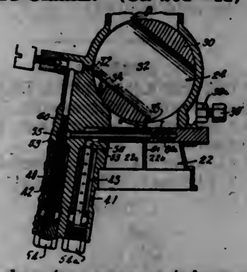
said shaft to absorb heat from within said core and extended beyond the ends of said core to dissipate said heat by radiation.

1,921,141
STEERING MECHANISM
Robert H. Thompson, Pottsville, Pa.
Application January 29, 1932. Serial No. 589,759
1 Claim. (Cl. 280—95)



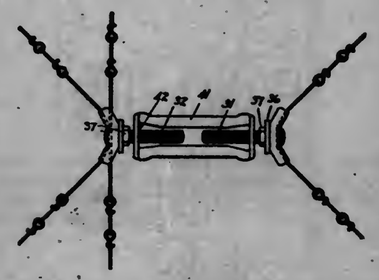
In a steering mechanism, a pair of steerable stub axles, a pair of arms on each axle extending forwardly and rearwardly therefrom, a pair of tie rods for the front and rear arms, each of said tie rods having sockets at the ends thereof, balls on the outer ends of the arms slidable in the corresponding sockets and a pair of springs in each socket at opposite sides of the corresponding ball.

1,921,142
CARBURETOR
Edward A. Winfield, La Canada, Calif.
Application June 26, 1928. Serial No. 288,399
14 Claims. (Cl. 261—41)



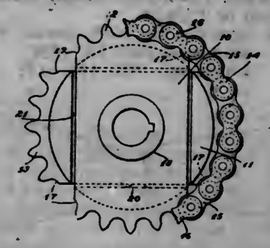
1. In a carburetor, a spray tube assembly embodying an outer tube having a closed end and a pair of co-axial bores, the smaller bore extending from said closed end to an intermediate portion of the tube and the larger bore extending from said intermediate portion to the open end of the tube, and an inner tube of outside diameter substantially equal to the diameter of said smaller bore, an end of the inner tube having a tight fit in said smaller bore and extending within and spaced from the larger bore wall to project beyond the open end of the outer tube, the outer tube having a jet opening through the wall of said larger bore, and both tubes having co-axial jet openings through their engaged portions.

1,921,143
BRACE FOR ARTICLES OF FURNITURE
Theodore H. Wittliff, Cleveland, Ohio
Application March 30, 1929. Serial No. 351,296
5 Claims. (Cl. 155—197)



1. A furniture bracing device comprising a plurality of terminal elements adapted to be secured to the frame members of an article of furniture, a central tensioning device, flexible members adapted to be secured to such terminal elements, said flexible members having chain portions at the ends thereof and elongated slidable elements, in the form of endless loops, centrally thereof to permit free sliding engagement with said central tensioning device.

1,921,144
FLEXIBLE SHAFT COUPLING
Yrjo A. Ahnger, Crockett, Calif.
Application January 28, 1931. Serial No. 511,765
13 Claims. (Cl. 64—97)



1. A quick detachable coupling for power transmission shafts, comprising a pair of oppositely disposed members adapted to be secured upon adjacent ends of shafts to be coupled, each of said members having sprocket sectors formed thereupon, one of said members having a transversely extending recess between its sprocket sectors having a minimum width greater than the chord dimension of said sectors into which the sector supporting portion of the other member may be disposed, whereby the sprocket sectors on said members may be disposed in the same plane and be moved radially into and out of interlocking engagement without axial displacement of said shafts, and a chain encircling said sprocket sectors and held on its pitch circle for transmitting power between the coupled shafts.

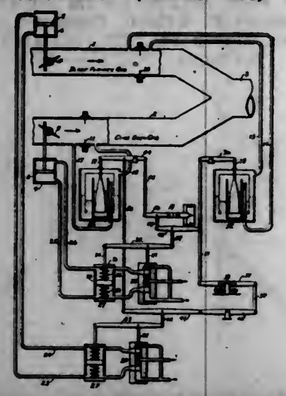
1,921,145

METHOD OF AND APPARATUS FOR CONTROLLING THE FLOW OF FLUIDS

Joseph C. Albright, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a Corporation of Delaware

Application October 11, 1930. Serial No. 488,145

30 Claims. (Cl. 137—164)



1. The method of mixing a plurality of streams of fluid each containing a different but substantially constant amount per unit volume of a constituent, to form a mixture having a substantially constant total amount of said constituent per unit time, which comprises measuring the rate of flow of each of the constituent streams of fluid, determining the ratio of said rates of flow, comparing the ratio of said rates of flow with a predetermined ratio, and subjecting each of the constituent streams of said mixture to control in accordance with the difference between said ratios.

1,921,146

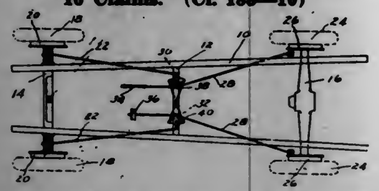
BRAKE-OPERATING CONNECTION

William J. Andres, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois

Application January 21, 1928, Serial No. 248,509

Renewed July 18, 1932

16 Claims. (Cl. 188—10)



1. Operating connections for a plurality of brakes comprising, in combination, two horizontally-swinging bellcrank levers, an operating member connected to each lever, tension means connecting the two levers, and brake-operating connections operated by the levers.

1,921,147

METHOD OF AND MEANS FOR CONTROLLING LOW TEMPERATURE REFRIGERANTS

William F. Baird, Winchester, Mass.

Application July 13, 1929. Serial No. 378,014

6 Claims. (Cl. 62—91.5)

6. The method of controlling the refrigerating effect of a low temperature refrigerant on a cabinet to be refrigerated, which comprises maintaining between said refrigerant and cabinet a



volatile heat-transferring substance simultaneously in its three physical states, to wit, solid, liquid and vapor.

1,921,148

DYEING AND PRINTING OF TEXTILE FIBERS BY MEANS OF DYES FORMED BY OXIDATION

Martin Battegay, Mulhouse, France, assignor to Calco Chemical Company, Inc., a Corporation of New Jersey

No Drawing. Application August 13, 1930

Serial No. 475,116

20 Claims. (Cl. 8—5)

1. The process which comprises dyeing a fibrous material with the aid of a dyeing composition containing a member of a group of substances which consists of transformation products of sulfocyanate derivatives of the benzene series.

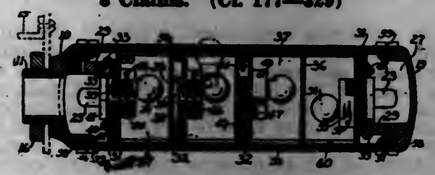
1,921,149

HOSPITAL INDICATOR

Bernett L. Bobroff, Milwaukee, Wis.

Application June 15, 1928. Serial No. 285,695

8 Claims. (Cl. 177—329)



1. In an indicator, the combination, with a casing, of stationary lamp supports carried therein in close relation and extending transversely of a face of the indicator, each support comprising a base portion having partitions thereon forming lamp compartments, and swingable lamp supporting members disposed in said compartments and carried by said support.

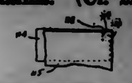
1,921,150

CORNER CONSTRUCTION

George E. Bomberger, Indianapolis, Ind., assignor to Inland Container Corporation, Indianapolis, Ind., a Corporation

Application October 11, 1930. Serial No. 487,984

3 Claims. (Cl. 229—37)



1. A corner construction formed from sheet material of corrugated board type having a scored portion therebetween for forming hinge extensions for each wall, the adjacent extensions being separated from each other by a relatively narrow space extending from the end of the extension toward the intersection of the scorings but terminating short thereof, said first mentioned scoring being longitudinally aligned with the spacing and extending to meet the same, and a slit extending completely through the board and transversely of one of the scorings and the space and for a distance substantially equal to the distance from the end of the spacing to the intersection of the transverse scorings, whereby, when the extensions are overlapped in rectangular relation relative to each other and rectangularly positioned relative to the supporting side wall, there is formed a moisture and air-tight and sift proof corner in a corrugated board structure.

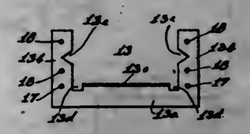
1,921,151

MOUNTING PLATE FOR OUTLET BOXES

Douglas L. Butow, Evanston, Ill.

Application May 31, 1930. Serial No. 458,252

3 Claims. (Cl. 247—21)



1. Mounting means for outlet boxes, consisting of a flat plate having a body portion and legs extending at right angles therefrom, said body portion having an upturned flange on its inner edge, and said legs having threaded holes symmetrically placed relatively to an outlet box to be enclosed by the body of the leg portions of said plate.

1,921,152

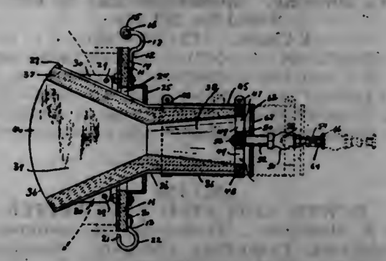
HEATER

Henry C. Caldwell, Buffalo, N. Y., assignor to Caldwell Experimental Corporation, Buffalo, N. Y., a Corporation of Delaware

Application November 13, 1928

Serial No. 319,124

11 Claims. (Cl. 158—7)



7. A heater comprising a plate adapted to be fitted to a heating device, a refractory combustion unit carried by and projecting through the plate and formed with a tapered portion having its base at the outer end of the heater and with a flat, flaring portion at its inner end, a source of fuel supply, and a fuel control valve carried at and by the outer end of the unit.

1,921,153

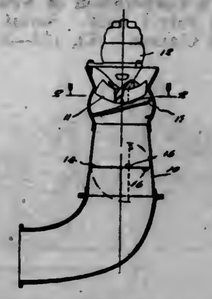
MOTOR DRIVEN BLOWER UNIT

Joseph M. Cantwell, Albany, N. Y.

Application April 25, 1927. Serial No. 186,287

1 Claim. (Cl. 230—120)

In a blower, including a rotating fan of the propeller type, a tubular member through which the air is impelled by the fan characterized by having a plurality of stationary projecting elements inclined to the axis of said member and disposed about the inner surface thereof from points just clearing the discharge side of the fan; the central, major portions of said member being free of obstructions; and said elements being inclined in a direction adapted to cut off only the outer portions of the air column as it leaves the



fan and continue, for a short distance, the whirling movement of the air created by the fan; whereby the volume of air delivered by the fan is substantially increased.

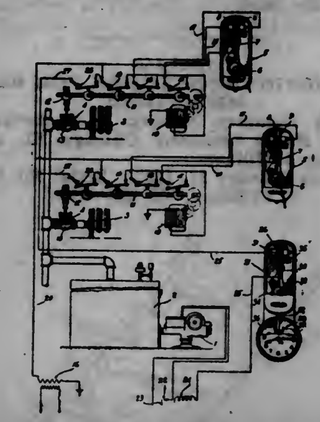
1,921,154

TEMPERATURE REGULATING SYSTEM

Howard D. Colman, Rockford, Ill.

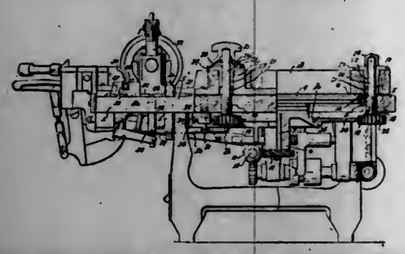
Application November 5, 1930. Serial No. 493,493

8 Claims. (Cl. 236—47)



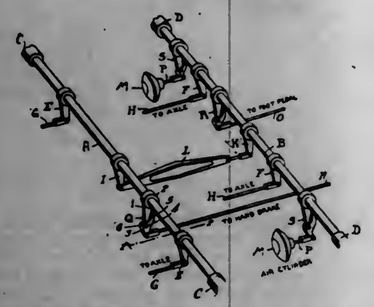
1. In a heating system, the combination of a plurality of heat regulating devices arranged to govern the supply of heat to different parts of a building, means to deliver heat to said devices from a primary source of supply, a plurality of thermostats each controlling one of said devices, a plurality of electric circuits each individual to one of said thermostats and having a switch therein which is closed when the associated thermostat is calling for heat and open when the thermostat ceases to call for heat, a magnet having a winding common to said circuits and adapted when energized to resume the supply of heat from said primary source and when deenergized to interrupt such supply, and a master thermostat normally ineffective during the daytime and adapted when rendered effective to respond to a temperature lower than the normal temperature for which said first-mentioned thermostats are set to respond, said master thermostat, when effectual, acting to interrupt the magnet circuit upon a rise in temperature above said lower value and to close the circuit upon a fall below such value.

1,921,155
COIN COUNTING MACHINE
Edward P. Donnellan, Brooklyn, N. Y., assignor to Standard-Johnson Company, Inc., Brooklyn, N. Y., a Corporation of New York
Application July 7, 1930. Serial No. 466,075
5 Claims. (Cl. 133—8)



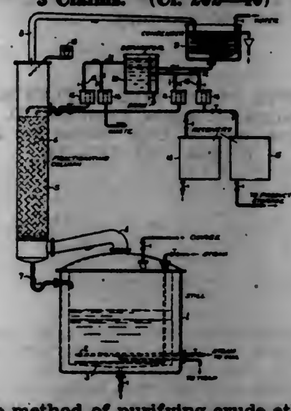
1. In a coin counting machine having a bed-plate, a rotatable feed table flush therewith, and an annular coin guiding means vertically movable relative to said bed-plate and feed table; a plurality of rotatable jack-screws threaded through said bed-plate and having means to connect their upper ends with said guiding means, a freely rotatable ring gear, said jack screws having pinions to engage said ring gear, and one of said jack-screws having manipulatable means for rotating the same.

1,921,156
LOST-MOTION CONNECTION FOR BRAKE MECHANISMS
George A. Gemmer, Newark, N. J., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois
Application October 27, 1927. Serial No. 229,155
11 Claims. (Cl. 188—106)



1. In brake mechanism, the combination with a plurality of brake operating devices each ending in a link and a brake gear including a rotatable shaft, of a lost-motion connection for each of said operating devices including two pivotally connected parts one fast connected to said rotatable shaft and the other connected to the respective brake operating link, said parts having portions to engage each other when the operating device is actuated in one direction to cause said parts to move together so as to rotate said shaft in one direction, and said parts being relatively moved about their pivotal connection upon rotation of said shaft in the same direction by another operating device, whereby said brake gear may be actuated by either of said operating devices without movement of the other operating devices.

1,921,157
PURIFYING ETHYLENE DIBROMIDE
Sheldon B. Heath and Merlin O. Keller, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan
Application February 5, 1931. Serial No. 513,512
3 Claims. (Cl. 202—40)

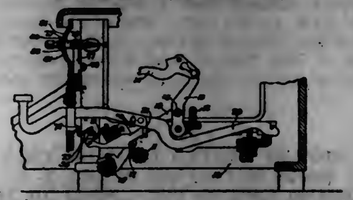


1. The method of purifying crude ethylene dibromide which comprises steam distilling the same under fractionating conditions and recovering the non-aqueous fraction distilling over at a temperature between 90.5° and 92° C. at atmospheric pressure.

1,921,158
INSECTICIDE
Eric T. Hessle, Lockport, Ill., assignor to Mid-West Chemical Company, Chicago, Ill., a Corporation of Illinois
No Drawing. Application May 8, 1929
Serial No. 361,549
1 Claim. (Cl. 167—43)

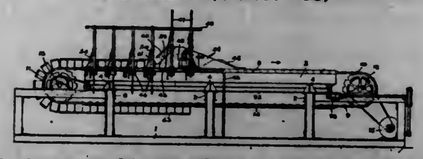
An insecticide composition comprising an emulsion of a non-toxic, substantially saturated, liquid hydrocarbon product and an emulsifying agent in water, said emulsifying agent comprising toxic hydrocarbon sulphones and sulphonic acids.

1,921,159
POWER ACTUATED TYPEWRITER
Otto A. Hokanson, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois
Application September 2, 1925, Serial No. 54,039
Renewed Dec. 26, 1929
9 Claims. (Cl. 197—17)



1. The combination with a typewriter having type bars and key levers, of a rotary power drive, key controlled means for selectively connecting said type bars with said power drive, a solenoid having a plunger, ratchet mechanism for imparting limited rotary movement to said power drive when said solenoid is energized to move said plunger in one direction, a circuit for energizing said solenoid, a spring actuated tappet for closing said switch, a detent for holding said tappet in retracted position, a key controlled device for releasing said detent, means actuated by said solenoid for retracting said tappet at the close of an operation of said solenoid, and means for automatically retaining said tappet in retracted position.

1,921,160
CONE MAKING MACHINE
Arthur A. Holland, Toronto, Ontario, Canada
Application April 12, 1932. Serial No. 604,843
16 Claims. (Cl. 107—58)



1. A cone making machine, comprising a frame, a plurality of moulds mounted on said frame, cores supported from said frame adapted to be withdrawn from said moulds, means operating with a uniformly continuous movement from end to end of the frame travelling over said frame for effecting the opening and closing of said moulds and operating said cores, and a filler co-operating with said travelling means and moving continuously therewith from one end of the frame to the other and projecting a quantity of batter during its movement into the moulds immediately following the closing of same.

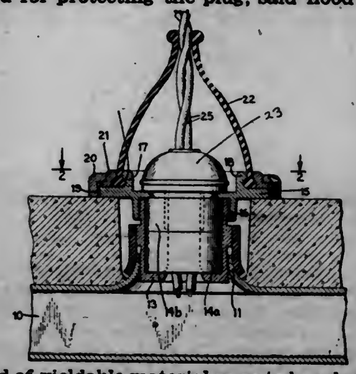
1,921,161
TRAILER BRAKE
Poul Arne Scott Iversen, Copenhagen, Denmark, assignor to Bendix Brake Company, Chicago, Ill, a Corporation of Illinois
Application March 21, 1928, Serial No. 263,327, and in Denmark March 28, 1927. Renewed February 25, 1932
12 Claims. (Cl. 188—112)



1. An automatically-acting brake for trailers, comprising a brake drum; a braking element co-operative therewith; a spring-pressed coupling rod between the main vehicle and the trailer; and a brake-applying lever connected on one side to said coupling rod and on the other side directly to said braking element in a manner to enable said lever and braking element to follow the rotation of the brake drum in either direction through a predetermined angle.

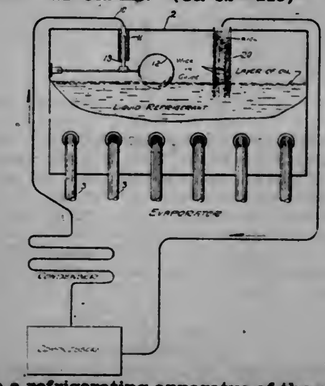
1,921,162
ELECTRICAL WIRING APPLIANCE
Frank J. Kennedy, Brooklyn, N. Y., assignor to National Electric Products Corporation, New York, N. Y., a Corporation of Delaware
Application July 24, 1930. Serial No. 470,312
9 Claims. (Cl. 247—18)

1. A floor attachment plug assembly comprising parts adapted to receive an attachment plug, a floor ring associated with such parts and secured in the floor and provided with an upstanding annular portion having a beaded flange, and a hood for protecting the plug, said hood being



formed of yieldable material so as to be adaptable to be stretched over the beaded flange for releasably securing the hood thereto and providing a watertight seal therewith.

1,921,163
REFRIGERATING APPARATUS
Mahlon W. Kenney, Elmhurst, and S Ernest Vickers, Norwood Park, Ill., assignors, by mesne assignments, to Grigsby-Grunow Company, a Corporation of Illinois
Application June 30, 1930. Serial No. 464,882
11 Claims. (Cl. 62—115)

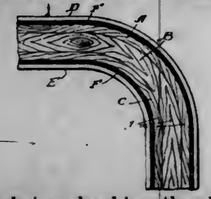


1. In a refrigerating apparatus of the compression expansion type wherein lubricant and refrigerant mingle the combination of a flooded evaporator having a gas outlet pipe therefrom and capillary means separating the gas space within the evaporator from the space within the outlet pipe for removing lubricant from the evaporator.

1,921,164
COMPOSITE LAMINATED PANEL
George K. Lewis, Chicago, Ill., assignor to Met-L-Wood Corporation, Chicago, Ill., a Corporation of Illinois
Application August 16, 1930. Serial No. 475,741
1 Claim. (Cl. 20—91)

A bendable composite panel capable of being bent without distortion or variation in thickness comprising relatively thin sheet metal exterior laminations; a relatively thick intermediate body of fibrous material; and a bonding fabric between each sheet metal lamination and the body, said body being composed of a plurality of laminations of wood disposed with the direction of the

grain or fiber thereof arranged to correspond in all of said laminations, said laminations and



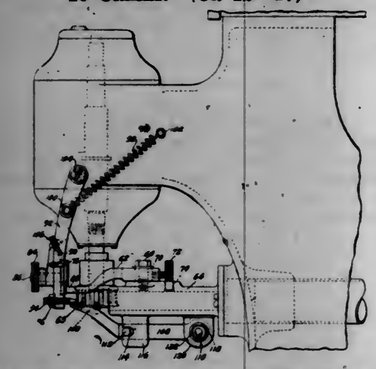
bonding fabric being glued together in superposed compact relation.

1,921,165

EDGE TRIMMING MACHINE

Alfred R. Morrill, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey

Application January 26, 1931. Serial No. 511,179
10 Claims. (Cl. 12—17)



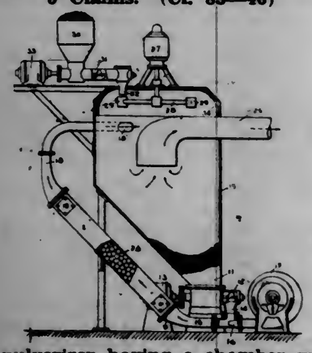
1. An edge trimming machine having, in combination, an edge cutter and a shoe supporting jack relatively movable to transfer the point of operation of the cutter around the sole of a lasted shoe supported on the jack, a templet mounted on the sole of the shoe, an adjustable guide to bear against the templet during the trimming operation, and a gauge for positioning said guide relatively to the cutter.

1,921,166

PULVERIZER

Ernest H. Peabody, New York, N. Y., assignor to Peabody Engineering Corporation, New York, N. Y., a Corporation of New York

Application October 24, 1930. Serial No. 491,007
6 Claims. (Cl. 83—46)



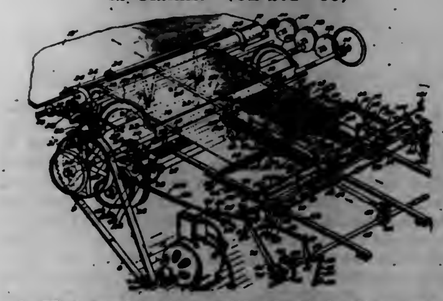
1. A pulverizer having a chamber with fixed members therein so disposed as to provide tortuous passages for the material to be pulverized, means for passing through said chamber of gaseous medium carrying said material in suspension, and means for cleaning the passages between said members of material lodged therein, said last mentioned means including means for rotating the pulverizer chamber to relatively displace the fixed members with respect to one another whereby clogging is prevented.

1,921,167

SHEET FEEDING APPARATUS

John Perry, Pearl River, N. Y., assignor to Dexter Folder Company, New York, N. Y., a Corporation of New York

Application July 13, 1928, Serial No. 292,510
Renewed October 19, 1931
42 Claims. (Cl. 271—50)



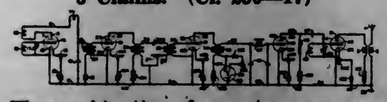
1. The combination with sheet feeding means and sheet registering means, of a reciprocating front stop movable bodily past said sheet registering means and adapted to stop the sheet rearwardly thereof, and means for pulling said sheet up to the sheet registering means comprising a pull-up member arranged to engage the under side of the sheet on the forward part thereof and connected with said reciprocating front stop.

1,921,168

APPARATUS FOR CONTROLLING TRANSMITTERS

George T. Royden, Palo Alto, Calif., assignor to International Communications Laboratories, Inc., New York, N. Y., a Corporation of New York

Application September 3, 1930. Serial No. 479,478
5 Claims. (Cl. 250—17)



1. The combination of an antenna, a generator of oscillations therefor having a grid, a condenser connected to the grid, a second generator having means for causing oscillations produced thereby to combine with oscillations of the first generator to produce electrical beats, a tuned circuit having a resonant frequency different from the frequency of said beats, a rectifying circuit and a regulating device connecting the tuned circuit to the condenser, and an impedance associated with said device to prevent electrical charges accumulating on the condenser and rendering said device inoperative.

1,921,169

BATTERY TERMINAL OR CONNECTER

John H. Ryalls, Richmond, Va.

Application October 4, 1929. Serial No. 397,348
2 Claims. (Cl. 173—259)

1. A battery connecter comprising a post, a nut on the post, an arm, screw means to hold arm and nut together, a cap to which the lead wire is connected, a screw connection between cap and



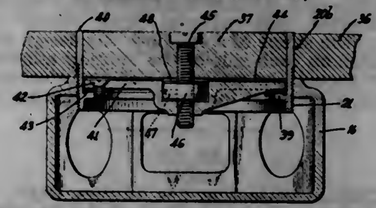
arm, chambers being provided where arm and nut contact, and within said cap, and a protective substance in such chambers.

1,921,170

MARBLE RING HOLDER FOR OUTLET BOXES

L Alan Sharp, Avalon, Pa., assignor to National Electric Products Corporation, New York, N. Y., a Corporation of Delaware

Original application July 5, 1929, Serial No. 376,240. Divided and this application July 24, 1930. Serial No. 470,411
5 Claims. (Cl. 247—19)



5. A junction box provided with a removable marble retaining ring, a closure for said ring removably secured thereto and at its outer periphery abutting the interior of said ring, a marble disk fitted within the ring, securing means for removably securing the said marble disk to the aforesaid closure, and means for forcing the removable disk away from the closure when said disk is to be removed.

1,921,171

FLASH LIGHT

Glenn A. Smith, United States Navy, Long Beach, Calif.

Application August 13, 1931. Serial No. 556,788
2 Claims. (Cl. 240—10.65)



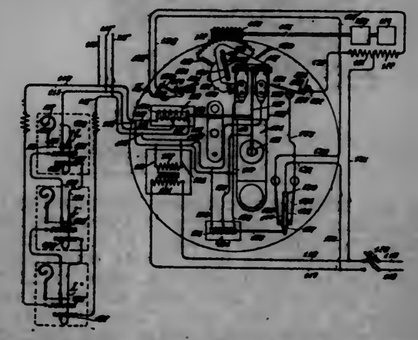
1. A flashlight comprising a container, cells therein, insulating pitch covering the cells, contacts embedded in the pitch and in connection with the cells, a socket in the pitch, a reflector extending from the socket outwardly of the pitch and having an upstanding free rim portion, a lamp in the reflector and socket in connection with one contact, a spring metal arm embedded in the pitch and in connection with the other contact, said spring metal arm rising out of the pitch substantially parallel with the axis of the reflector and to a greater height than the reflector and having a diagonal tip portion inclining toward the reflector and being above the plane of the free upper rim portion of the reflector, and a lug projecting down toward the reflector from said diagonal tip in position to engage said rim when the diagonal tip is depressed and for also fitting within, and interlocking with, the rim of the reflector when the spring arm is flexed over toward the reflector.

1,921,172

AVERAGE TEMPERATURE CONTROL MECHANISM FOR HEATING SYSTEMS

Elbert A. Taylor, Arlington Heights, Ill., Millard D. Pence, New York, N. Y., and Clayton A. Dunham, Glencoe, Ill., assignors to C. A. Dunham Company, Marshalltown, Iowa, a Corporation of Iowa

Application January 8, 1932. Serial No. 585,530
17 Claims. (Cl. 236—74)



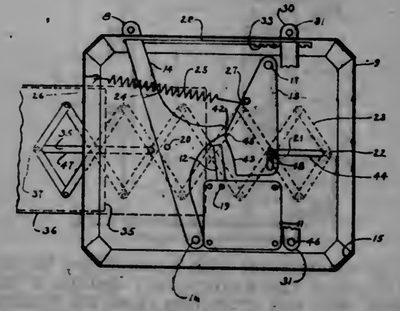
5. In a temperature control device for a steam heating system, the combination of a plurality of control devices each comprising a thermostat, a pair of resistances, a pair of movable contact members one engaging each of the resistances, and means actuated by the thermostat for simultaneously moving the contacts lengthwise of the resistances, a pair of control circuits, the effective portions of all of one set of similar resistances of the several control devices being connected in one circuit, and the effective portions of the other set of resistances being connected in the other circuit, and valve-controlling mechanism governed by the control circuits.

1,921,173

AUTOMATIC EJECTING MECHANISM

John B. St. Maur, Rochester, N. Y., assignor of one-fourth to Fred M. Zoller, Rochester, N. Y.

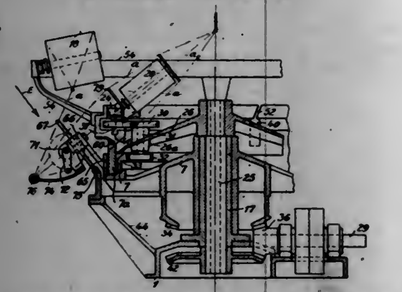
Application April 17, 1931. Serial No. 530,785
6 Claims. (Cl. 161—16)



1. In a mechanical movement, the combination with an article support having operative and in-

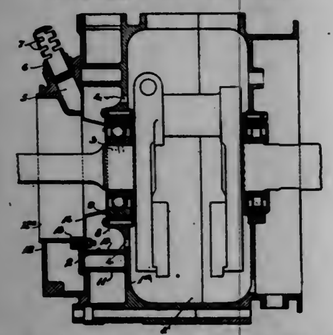
operative positions, a supporting slide for the support and a guide for the slide, of an actuator for the slide, a detent lever for moving the actuator to set position and having a receding idle movement while in detaining contact therewith, and a time controlled device for imparting gradual releasing movement to the detent lever.

1,921,174
BRAIDING MACHINE
Carl Tober, Berlin-Karlshorst, Germany
Application September 23, 1931, Serial No. 564,525, and in Germany July 21, 1931
9 Claims. (Cl. 96—6)



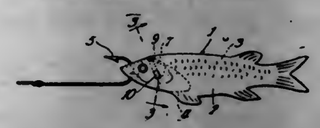
1. In a braiding machine having oppositely rotating inner and outer sets of thread carrying spools, mechanism for guiding the outer threads above and below the inner spools, comprising a carrier, means for driving the same round the braiding axis at the same speed and in the same direction as the outer spools, thread guides rotatably mounted on said carrier with their axes of rotation substantially tangential to their path round the braiding axis and means for rotating the thread guides about the said axes at uniform speed in a plane substantially radial to the braiding axis.

1,921,175
MEANS FOR VENTILATING THE CRANK CASES OF INTERNAL COMBUSTION ENGINES
Clifford Owen Towler, Birmingham, England, assignor to Wolseley Motors (1927) Limited, Birmingham, England
Application March 28, 1931, Serial No. 525,973, and in Great Britain July 21, 1930
2 Claims. (Cl. 121—194)



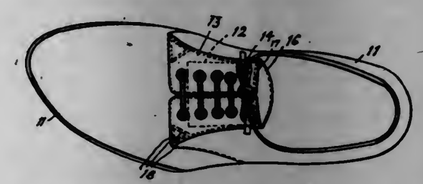
1. In combination with a crankcase having a wall provided with a crankshaft opening, a flange integral with and projecting from the crankcase wall, said flange surrounding said crankshaft opening and an angle-sectioned ring comprising a pair of flanges, one of the last-mentioned flanges co-operating with the first-mentioned flange and the other one of the last-mentioned flanges engaging the crankcase wall to form an external annular vapour-receiving chamber, said ring having an opening placing said chamber in communication with the atmosphere, the wall of the crankcase having a series of holes placing the latter in communication with said chamber.

1,921,176
LURE
George R. Unkefer, Chicago, Ill.
Application May 27, 1931. Serial No. 540,386
7 Claims. (Cl. 43—46)



1. As an article of manufacture, a fish lure comprising a transparent flexible material having the design of a minnow imprinted upon one surface thereof, said material being folded upon itself to the shape of a minnow, the design being imprinted on each side of the minnow and being visible through the material; and a reinforcement of heavier material for the head of the minnow.

1,921,177
SHOE
Chikazo Watanabe, Los Angeles, Calif.
Application September 9, 1931. Serial No. 561,884
2 Claims. (Cl. 36—51)

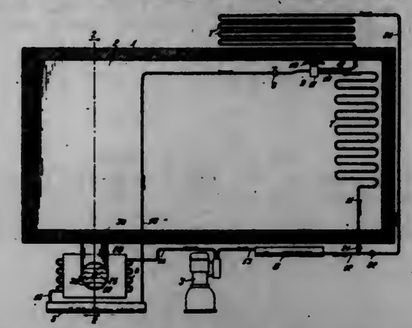


2. In a shoe having a leather upper portion, an elastic fabric disposed in the upper of the shoe, outer and inner leather tongue portions extending over the elastic fabric and being unattached thereto, ornamental lacing disposed on the outer leather tongue portion, the inner leather tongue portion extending under the elastic fabric and being unattached thereto, said tongue portions being connected at one end to the body portion of the shoe, and the upper ends of said tongue portions being connected together.

1,921,178
TEMPERATURE CONTROL APPARATUS
Edward C. Wood, Highland Park, Ill., assignor to North American Car Corporation, Chicago, Ill., a Corporation of Illinois
Application June 4, 1932. Serial No. 615,412
12 Claims. (Cl. 62—117)

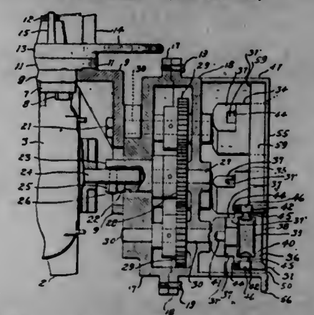
1. A temperature controlling mechanism comprising a single heat transferring apparatus of the type in which a heat transfer medium moves in a closed circuit comprising a pair of evaporators one positioned in each of two separated spaces, and a single condenser, means for circulating the heat transfer medium alternatively through either one or the other of the evaporators, and

means for circulating air in contact with the



condenser from the space in which the evaporator not functioning is located and back to said space.

1,921,179
CLUSTER CRIMPER FOR COIN WRAPPERS
Edward P. Donnellan, New York, N. Y., assignor to Standard-Johnson Company, Inc., Brooklyn, N. Y., a Corporation of New York
Application January 16, 1931. Serial No. 509,095
2 Claims. (Cl. 93—5)

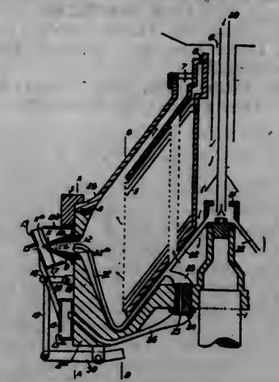


1. In a power driven cluster crimper having a plurality of annularly disposed crimpers driven by a gearing contained within a housing, a cylindrical guard member surrounding said crimpers and attached at its rear end to the gear housing, the forward end of said guard member being closed and provided with apertures therein for conformably receiving the forward ends of said crimpers, each of said crimpers having an opening in the rear portion thereof through which lint and other foreign matter may escape into said guard member in use, said guard members serving as a container for said lint and to prevent the escape thereof into the air.

1,921,180
PROCESS FOR THE PURIFICATION OF COPPER
George S. Evans, Bronxville, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a Corporation of Virginia
No Drawing. Original application March 19, 1929, Serial No. 348,350. Divided and this application May 11, 1931. Serial No. 536,651
4 Claims. (Cl. 75—62)

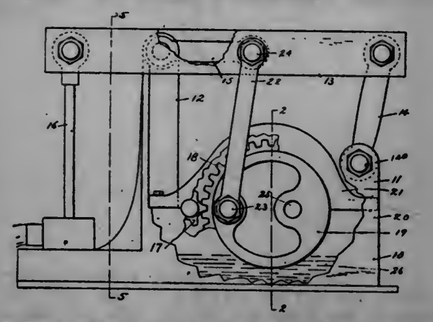
2. In the process of refining copper in a reverberatory furnace the step of adding with the solid metal charge, a refining agent containing sodium carbonate as its chief active ingredient and an oxygen-bearing material.

1,921,181
CENTRIFUGAL SEPARATOR
Harold William Fawcett, Harrogate, England
Application June 1, 1931, Serial No. 541,478, and in Great Britain June 6, 1930
18 Claims. (Cl. 233—20)



1. In a centrifugal separator, a rotatable separating bowl having peripheral sludge discharge apertures, means for admitting material to be separated into said bowl, outlet means for purified liquid, valves for said peripheral sludge discharge apertures normally keeping said apertures closed under the influence of centrifugal force, liquid-operated means reciprocating in relation to said peripheral outlet valves, a liquid supply conduit adapted to be choked on the separated sludge exceeding a given depth, and a by-pass conduit branching from said liquid supply conduit and adapted when said latter is choked to supply liquid to said liquid-operated means to bring same into operative engagement with the peripheral outlet valves to open said latter.

1,921,182
CRANK GEAR FOR PLUNGER PUMPS
William E. Ferguson, Orange Cove, Calif.
Application March 28, 1932. Serial No. 601,640
2 Claims. (Cl. 74—14)



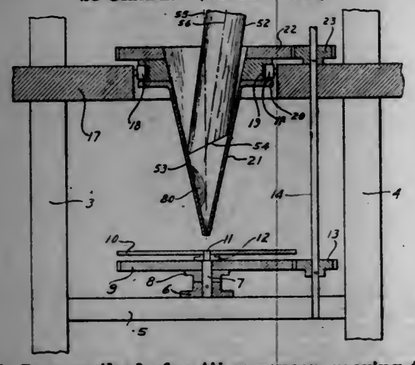
1. In a device of the character described, the combination of a driven wheel with means for driving said wheel, said driven wheel having a duplicate annular extension concentric with the driven wheel on each face thereof, the peripheries of said annular extensions being adapted as journals, bearings adapted for said journals to rotate therein, a plurality of openings in said annular extensions, the openings in each of said annular extensions registering with similar openings in the other extension, said

openings being adapted to carry a crank pin of such length that it extends beyond the face of each of said extensions.

1,921,183
PROCESS FOR MAKING VENEER AND A VENEER MACHINE

Robert N. Hartsell, Piqua, Ohio, assignor to Hartsell Industries, Inc., Piqua, Ohio, a Corporation of Ohio

Application January 26, 1931. Serial No. 511,238
23 Claims. (Cl. 144—209)

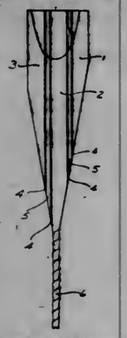


1. In a method of cutting veneer, moving the work piece and a cutter blade relatively to one another so that as the cutter blade moves as an element of a cone over the surface of the work piece the angle of the cutter blade to the axis of the work piece constantly changes.

1,921,184
METHOD OF MAKING VENEER AND A NEW ARTICLE OF VENEER

Robert N. Hartsell, Piqua, Ohio, assignor to Hartsell Industries, Inc., Piqua, Ohio, a Corporation of Ohio

Application February 25, 1931. Serial No. 518,169
10 Claims. (Cl. 144—309)



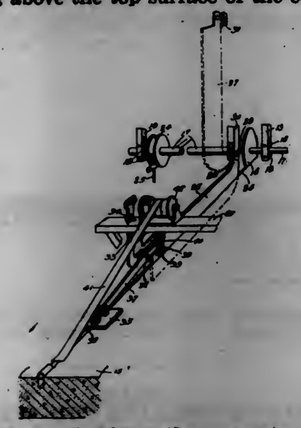
1. In a method of making a work piece for veneer, air drying portions of the work piece, coating the surfaces thereof with an adhesive, inserting between the adhesive surfaces a relatively drier strip of wood.

1,921,185
METHOD AND MEANS FOR SURFACING ROADS

John N. Heltzel, Warren, Ohio

Application May 28, 1930. Serial No. 456,556
20 Claims. (Cl. 94—39)

1. A joint producing apparatus, consisting of a movable frame over a plastic concrete surfacing structure, a longitudinal blade to be forced into the plastic concrete, the top of said blade projecting above the top surface of the concrete,
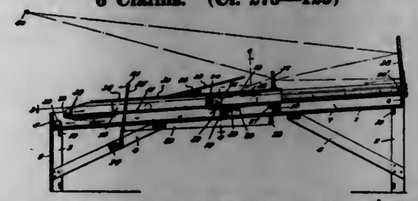


and means for finishing the concrete movable longitudinally on each side of the blade independently of the blade.

1,921,186
GAME

Loyal C. Henderson, Asbury Park, N. J.

Application September 8, 1932. Serial No. 632,243
6 Claims. (Cl. 273—125)

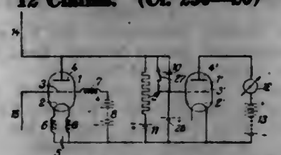


1. A device of the class described including a table bottom having a wall, a playing board mounted above the table bottom, a hazard carried on the playing board, partitions connected with the hazard and defining a lane, and a mirror on the table bottom for reflecting to a player the image of a ball moving on the playing board past the hazard to be caromed off the wall toward the lane.

1,921,187
ULTRA-SHORT-WAVE SYSTEM

Hans Erich Hollmann, Berlin-Charlottenburg, Germany, assignor, by mesne assignments, to American Telephone and Telegraph Company, a Corporation of New York

Application October 22, 1931, Serial No. 570,385, and in Germany October 13, 1930
12 Claims. (Cl. 250—20)

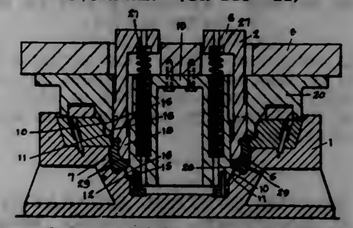


1. In a receiving circuit for modulated ultra-short-wave signals, comprising a first vacuum tube for receiving said signals, said tube having a cathode, anode and grid electrode, means for operating said tube with a positive grid and free anode electrode to produce ultra-high-frequency oscillations, a second regular amplifying tube operated with a normally unbiased control electrode and means for directly applying modulating potential variations on the anode of said first tube to the control electrode of said second tube.

1,921,188
SHEET METAL DIE

George E. Ireland, Toledo, Ohio, assignor to The City Machine & Tool Company, Toledo, Ohio, a Corporation of Ohio

Application July 15, 1930. Serial No. 468,006
15 Claims. (Cl. 113—44)

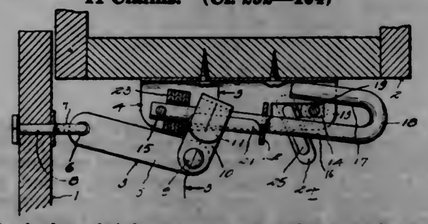


1. In a sheet metal forming apparatus, a curvilinear matrix having a contoured surface agreeing with the shape of the article to be produced, blank engaging areas thereof diagonally offset relative to each other in different planes, spaced blank holders co-operating with said blank engaging areas, a mobile body confined between said blank holders, and a pressure applying means for subjecting the mobile body to displacement pressure against the blank, thereby distorting the blank into conformity with the contiguous face of the matrix intermediate the blank engaging areas.

1,921,189
DOOR FASTENER

Martin Jensen, Penn Yan, N. Y.

Application February 7, 1933. Serial No. 655,645
11 Claims. (Cl. 292—104)



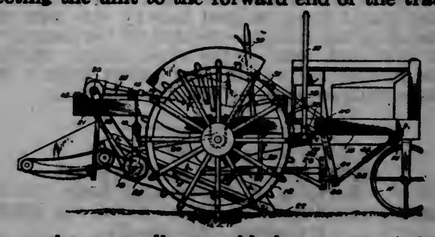
1. A door latch, comprising a hook, a keeper including a swinging bar with which the hook is connected, and means adjustable longitudinally of and on the bar to compensate for changes in the relative positions of the hook and keeper to permit proper coupling of the same together.

1,921,190
UNDERSLUNG POTATO DIGGER FOR TRACTORS

Elmo W. Johnson, Hicksville, N. Y.

Application June 11, 1931. Serial No. 543,681
8 Claims. (Cl. 55—51)

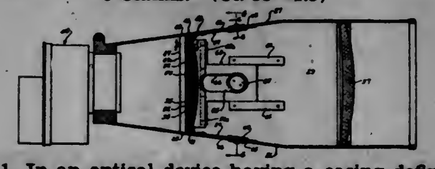
1. In combination with a tractor, an underslung potato harvester unit comprising a conveying mechanism and digging means pivotally suspended at the rear end of the tractor; power take-off connections for driving the conveying mechanism of the unit; means resiliently connecting the unit to the forward end of the tractor; and a manually operable lever connected to vary the depth of penetration of the unit.



1,921,191
ADJUSTABLE MAT FOR OPTICAL INSTRUMENTS

Gustave W. Jonson, Beverly Hills, and Albert Grebe, Los Angeles, Calif., assignors to Mitchell Camera Corporation, West Hollywood, Calif., a Corporation of Delaware

Application June 9, 1931. Serial No. 543,120
6 Claims. (Cl. 88—1.5)



1. In an optical device having a casing defining a light conduit in which an image is formed in a focal plane which is transverse of the casing, a flexible mat, means in the casing for guiding the mat in the focal plane and in a plane along the casing wall, a slide member sliding in the last mentioned plane and attached to the part of the mat in that plane, and means associated with said slide member by which the slide member may be moved back and forth manually.

1,921,192
ANTISKID DEVICE

James B. Keaney, Marlboro, Mass., assignor of one-half to Gustav J. Johnson, Marlboro, Mass.

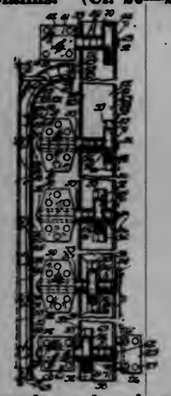
Application September 24, 1932
Serial No. 634,696
1 Claim. (Cl. 152—14)



As an article of manufacture, an anti-skid cross chain made up of a plurality of plates, each having flanges turned outwardly from its oppo-

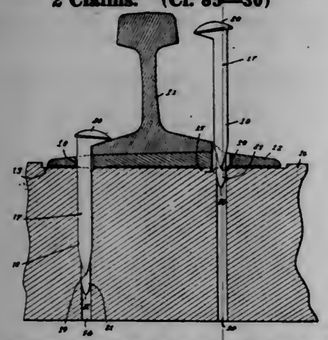
site edges and making an angle with each other, said plates being located side by side with the apexes of the triangles formed by the flanges all at the same side of the cross chain, whereby the flanges of two adjacent plates form a triangle with its apex on the opposite side.

1,921,193
ROLLING DOOR MECHANISM
Harry G. Kelly, Omaha, Nebr.
Application August 30, 1930. Serial No. 478,815
8 Claims. (Cl. 20—20)



3. Guide means for a door having staggeredly arranged side rollers, and comprising a channel iron member and an opposed track surface member in spaced relation, one of said members having a plurality of inclined surfaces in staggered arrangement to engage said side rollers simultaneously.

1,921,194
RAILWAY SPIKE
Edward Kelly, Rockford, Ill., assignor of one-half to Leslie H. Geddes, Rockford, Ill.
Application January 9, 1931. Serial No. 507,548
2 Claims. (Cl. 85—30)

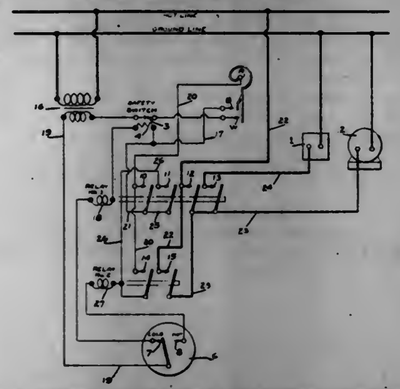


1. A railway spike comprising a rectangular shank having a head provided on one end thereof and a chisel point formed at the other end thereof by the downwardly converging opposite sides of the spike, and a cylindrical pilot extension formed coaxial with said shank centrally of the chisel point and depending therefrom, the said pilot extension being of the proper diameter to fit snugly in a hole bored in a railway tie, whereby to center the chisel point of the spike accurately with reference to the hole, and said pilot extension being sufficiently elongated and fitting snugly in the hole substantially its full length whereby, due to its lateral bearing in the hole, it is prevented from penetrating the tie alongside the hole, and is arranged to axially align the shank of the spike with respect to the hole and, thereby prevent the chisel point from penetrating the tie more than a predetermined distance to either side of the hole.

1,921,195
ALUMINUM SILICON ALLOY
Louis W. Kempf, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania
No Drawing. Application July 14, 1931
Serial No. 550,757
3 Claims. (Cl. 75—1)

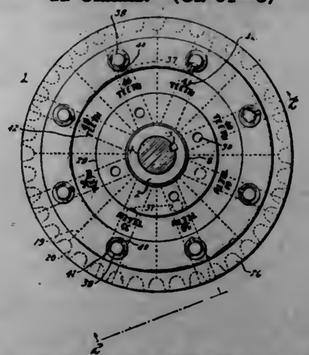
1. An aluminum-silicon alloy having a silicon content between about 4 and about 25 per cent and containing from about 0.1 to about 2 per cent of zirconium, the balance being substantially all aluminum.

1,921,196
BURNER CONTROL APPARATUS
John P. Kriechbaum, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a Corporation of Delaware
Application July 18, 1931. Serial No. 551,700
6 Claims. (Cl. 158—28)



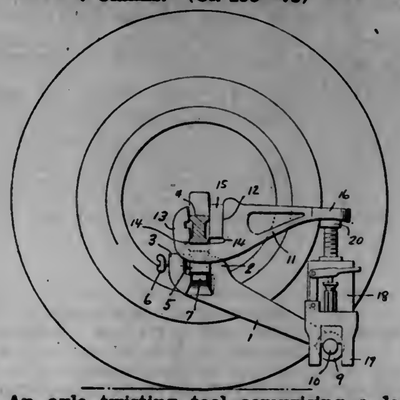
1. A system of the class described comprising an igniter, a fuel feeder, a safety timer for rendering the system inoperative if not de-energized at the end of a predetermined timed period, first electromagnetic means operative when energized, and which must be energized, to energize the igniter, fuel feeder and timer, second electromagnetic means operative when energized to continue fuel feeder energization after ignition, first and second contacts and means for controlling them comformably to combustion conditions to have the first initially closed when combustion does not exist, to have the second close promptly on production of combustion, and have the first open at the end of a time period after the second closes, and circuits controlled by the contacts to permit energization of the timer and first electromagnetic means while the first contact is closed, to obtain energization of the second electromagnetic means when the second contact closes, and to de-energize the timer and first electromagnetic means on opening of the first contact, and on temperature fall due to cessation of combustion to delay closure of the first contact for a time period after opening of the second contact.

1,921,197
EXPANSIBLE SPROCKET OR PULLEY
Carl B. Larson, Maplewood, N. J., and William C. Hammond, Kalamazoo, Mich., assignors to William C. Hammond, Kalamazoo, Mich.
Application December 22, 1931. Serial No. 582,548
11 Claims. (Cl. 64—8)



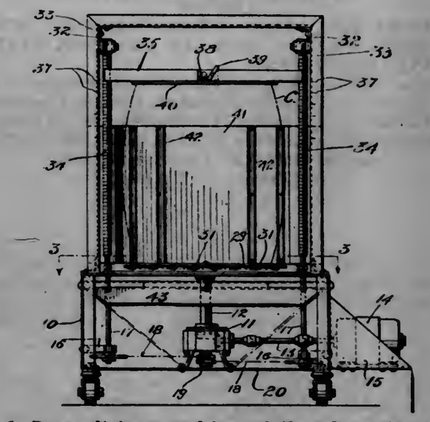
1. An expansible power transmission wheel comprising, a hub, a guide plate member fixedly mounted on said hub and having radial guide slots therein, a second guide plate member spaced from said first guide plate member and having radial guide slots therein, said second guide plate being splined on said hub so as to turn therewith although being free to move longitudinally of said hub, radially movable sector members interposed between said guide plate members and cooperating with the latter so as to be guided thereby during their radial movements, means for effecting radial movement of said sector members, positioning means carried by one of said guide plate members for cooperating with said sector members to determine any one of a plurality of definite diameters for said transmission wheel, and clamp means mounted on said hub and arranged for engaging and moving said second guide plate member longitudinally of said hub and against said sector members to thereby bind said sector members against said first guide plate member for retaining said sector members in fixed selected positions.

1,921,198
TWISTING TOOL
Austin G. Marsh, Springfield, Ill.
Application September 1, 1932. Serial No. 631,420
7 Claims. (Cl. 153—78)



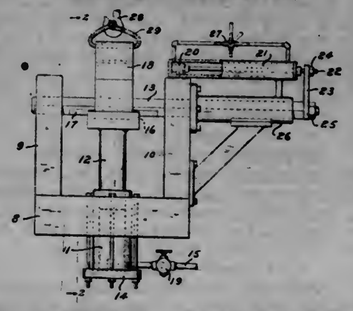
2. An axle twisting tool comprising a lever operatively engageable with the axle, means on the lever engageable with the axle for supporting said lever against torsional strain, a twisting lever operatively engaged with the axle, and means engageable with the levers for actuating the second named lever.

1,921,199
SOAP SLICING MACHINE
Harry Maskery, Philadelphia, Pa.
Application February 5, 1931. Serial No. 513,674
2 Claims. (Cl. 146—125)



1. In a slicing machine of the character described, a rotary slicing means, a pair of threaded shafts extending upwardly at opposite sides of the rotary slicing means, a series of stationary cutting means comprising a support for material to be sliced and arranged above the rotary slicing means, a follower engaging the threaded shafts and adapted to engage material supported from said stationary cutting means and urge it through the stationary cutting means into engagement with the rotary cutting means, means for rotating the rotary cutting means and said shafts, said follower comprising a bar having notches in its ends to receive said shafts, said notches being threaded for co-action with the shafts.

1,921,200
CONTINUOUS OBJECT FORMING PRESS
Edward C. Mueller, Milwaukee, Wis., assignor to Sterling Wheelbarrow Company, Milwaukee, Wis., a Corporation of Wisconsin
Application September 28, 1931
Serial No. 565,479
2 Claims. (Cl. 153—22)



1. In combination, a base having laterally spaced fixed supports provided with alined polygonal openings, a mandrel snugly fitting and

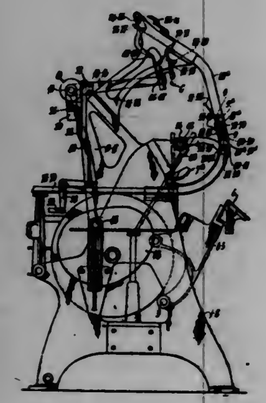
slidable longitudinally through said openings, a ram carried by said base and movable laterally toward said mandrel between said supports to form continuous objects loosely surrounding said mandrel, and means for withdrawing said mandrel longitudinally from within one of said openings and from said space sufficiently to permit lateral removal of the completed objects from said space and transversely of the axis of movement of said mandrel.

1,921,201

MECHANISM FOR TRANSPORTING SECTION-SPACING BLOCKS IN BOOK-BINDING MACHINES

Oskar Müller, Leipzig-Plagwitz, Germany, assignor to Gebruder Brehmer, Leipzig-Plagwitz, Germany, a Limited Partnership of Germany

Application September 28, 1931, Serial No. 565,661, and in Germany January 21, 1931
20 Claims. (Cl. 11—1)



1. In a book-binding machine for producing interconnected book-pads, means for transporting a section-spacing block, comprising a block-collecting tray, a block holder, means for engaging a section-spacing block with the said holder, means for transporting the said holder and block held thereby towards the tray, and means for releasing automatically from the block holder the said block so that the latter is deposited in the said tray.

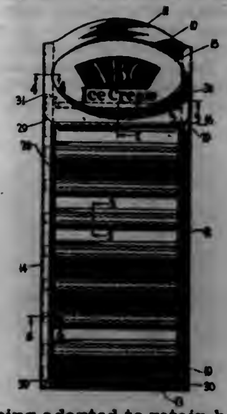
1,921,202

INTERCHANGEABLE SIGN

Theodore Mungen, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania

Application September 16, 1931
Serial No. 563,015
3 Claims. (Cl. 40—64)

1. A sheet metal sign comprising an open faced frame with rearwardly and inwardly flanged edges, and a series of spaced insert retaining strips secured to the back of said frame between the main body thereof and said flanged edges,



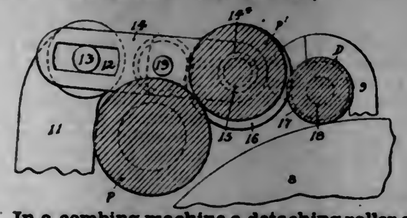
said strips being adapted to retain between them a plurality of indicia bearing panels.

1,921,203

COMBING MACHINE

John William Nasmith, Manchester, England

Application April 23, 1932, Serial No. 607,696, and in Great Britain September 5, 1931
2 Claims. (Cl. 19—121)



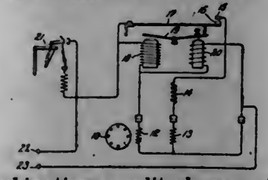
1. In a combing machine a detaching roller and a piecing roller, these two rollers reciprocating together in the operation of the machine, slidable arms in which the piecing roller is borne, angularly adjustable discs fitted upon the piecing roller shaft and eccentric thereto, such discs resting upon the detaching roller shaft, and means for securing such discs in any angularly adjusted position thereof.

1,921,204

VOLTAGE COMPENSATED STARTING RELAY FOR SPLIT PHASE MOTORS

Clifford A. Nickle, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York

Application April 14, 1930. Serial No. 444,079
13 Claims. (Cl. 172—279)



1. In combination, a split phase motor having a running winding and a starting winding, and an electro-responsive switch for controlling the energization of the starting winding responsively to the decrease in current in the running winding as the motor is started and having means for compensating for variations in the running winding current due to variations of the applied voltage.

1,921,205

BELT CONVEYER

Tage Georg Nyborg, Worcester, England, assignor of one-hauf to Mark Frederick Higgins, Worcester, England

Application February 29, 1932, Serial No. 595,908, and in Great Britain May 29, 1931
2 Claims. (Cl. 198—139)



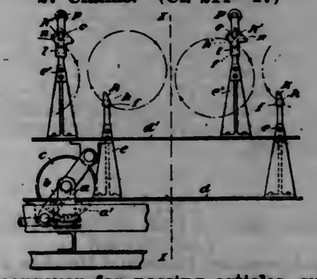
1. In a belt conveyer having a belt folded back on itself to allow for extensibility, a pair of slideways, slides slidable thereon, an extension roller freely rotatable about an axis extending between said slides, ground frames supporting the said slideways, a flexible element movable in both directions to oppositely adjust the slides relative to the ground frames, a lever mounted on one of the ground frames, and a double-ended pawl carried by the lever and selectively cooperating with the flexible element for movement of the slides in either direction through corresponding operation of the lever.

1,921,206

APPARATUS FOR PASSING ARTICLES SUSPENDED FROM SUPPORTING DEVICES THROUGH BATHS

Josua Oertli, Berlin-Siemensstadt, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany, a Corporation of Germany

Application May 16, 1931, Serial No. 537,854, and in Germany May 31, 1930
27 Claims. (Cl. 214—17)



1. A conveyor for passing articles, suspended from supporting devices, through baths, in which the movement of at least two frames continuously moved in parallel planes by means of crank arms or eccentric drives staggered in relation to each other, is transmitted to arms extending across the tanks containing the baths, and which at their ends located above the baths carry angularly movable tapering suspension members.

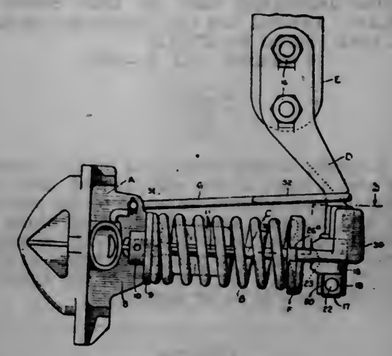
1,921,207

AUTOMATIC TRAIN PIPE CONNECTER

Joseph Robinson, New York, N. Y.

Application October 14, 1929, Serial No. 399,670
Renewed April 20, 1932
14 Claims. (Cl. 285—58)

1. An automatic train pipe connecter comprising in combination, a coupling head and a support therefor, said support including a bracket having on its lower portion a vertically disposed trunnion, a pivot block suitably mounted on said trunnion, a spring rotatably supported on the



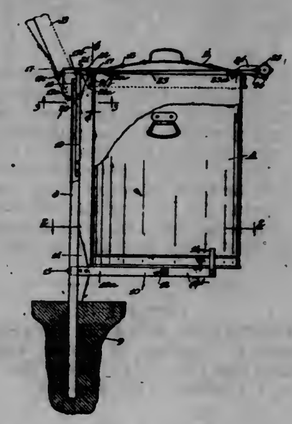
bracket by said pivot block, and a member extending from the coupling head rearwardly beyond said spring and spanning said trunnion and pivot block.

1,921,208

COVER OPERATOR AND HOLDER FOR GARBAGE CANS AND THE LIKE

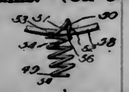
Hereward L. Scruton, Minneapolis, Minn.

Application May 2, 1932. Serial No. 608,744
8 Claims. (Cl. 248—11.5)



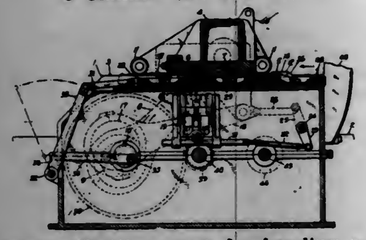
4. A cover operator and holder for garbage cans and the like, comprising a standard, an arm pivoted adjacent the upper end of said standard and which may be attached to a can cover, a resilient bar secured at one end to said standard and having a laterally projecting portion, said arm having an opening through which said projecting portion is resiliently urged to lock said arm when in horizontal position, a cam pivoted to said arm and having a cam portion located adjacent the free end of said bar and means which may be attached to the can cover for swinging said cam against said bar to withdraw said projecting portion thereof from said opening to permit said arm to be swung upwardly from horizontal position.

1,921,209
HOOK-ENDED COILED SPRING
Henry Vanderploeg, Chicago, Ill., assignor to Haggard & Marcusson Company, Chicago, Ill., a Corporation of Illinois
Original application July 18, 1929, Serial No. 379,150. Divided and this application October 31, 1931. Serial No. 572,276
6 Claims. (Cl. 5—269)



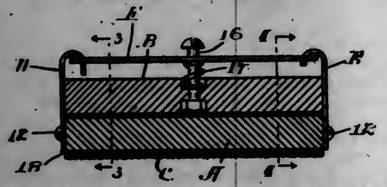
2. A spring having a series of helical convolutions and a hook at one end thereof, said hook having its loop lying at an angle to the convolutions and its nose reversely directed along the terminal normal convolution and separated therefrom at an angle which converges to a dimension less than the diameter of the article to which the hook is to be applied.

1,921,210
OFFSETTING PRESS
Adam Ziska, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York
Application March 3, 1932. Serial No. 596,503
6 Claims. (Cl. 153—48)



1. In an offsetting press for bending a strip of sheet metal in the plane of its surface, a base having a substantially flat working surface, an offsetting head longer than the strip to be bent disposed on the working surface, means for feeding a strip to be bent laterally from the rear of the press, means for moving the offsetting head to clamp and bend the strip, and means for removing the bent strip laterally to the front of the press.

1,921,211
SANDPAPER HOLDER DEVICE
Alonza C. Bawden, El Monte, Calif.
Application April 20, 1931. Serial No. 531,367
2 Claims. (Cl. 51—187)

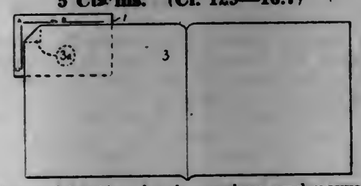


1. A holder, comprising in combination, a base, clamp engaging elements secured to and projecting upwardly on opposite side walls of said base having inturned shoulders upon their upper ends and stops near the extremities of said shoulders, a cover over the base forming a handle and adapted to nest closely between said clamp engaging elements, a strip of abrasive wrapped around the lower surface of said base having ends turned upwardly over sides of said base and inwardly between said base and cover to be clamped therebetween, and a resilient clamp consisting of an arm swiveled between its ends upon said cover having ends adapted to releasably engage said shoulders between said stops under spring pressure to press said cover down and hold said abrasive upon said base, said clamp engaging elements and stops cooperating with said cover and clamp to limit lateral play of said cover on said base.

1,921,212
OPERATION OF FURNACES
Herman A. Brassert, Chicago, Ill., assignor to H. A. Brassert & Company, Chicago, Ill., a Corporation of Illinois
No Drawing. Application June 4, 1931
Serial No. 542,197
4 Claims. (Cl. 75—17)

2. The method of operating a blast furnace for reduction and smelting of iron ores and controlling the temperature in such furnace, which comprises introducing air preheated to a temperature in excess of 1300° F. into said furnace through the tuyères and introducing continuously with said air a controlled quantity of preheated aqueous fluid.

1,921,213
BOOKMARKER AND FILING CARD
Paine L. Bush and Winter R. King, Dallas, Tex.
Application November 11, 1930
Serial No. 494,833
5 Claims. (Cl. 129—16.7)



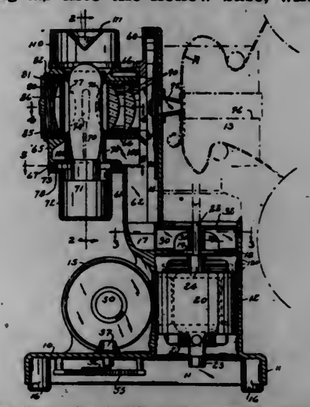
1. A combination book marker and permanent record filing card having a rectangular shape, one corner of said card having a slit therein in angular extension with respect to the lineal extension of the card edges, said slit terminating at each end thereof at a predetermined spacing from the card edges.

1,921,214
COOLING MEANS FOR MOTION PICTURE PROJECTORS
Ernest S. Carpenter, Cleveland Heights, Ohio, assignor to The Augustus-Carpenter Company, Cleveland, Ohio, a Corporation of Ohio
Application May 10, 1932. Serial No. 610,419
17 Claims. (88—24)

14. In a motion picture projector, the combination of a frame, a lamp housing carried thereby, a lamp socket, a lamp carried thereby in the housing, means for propelling air into the housing, and means for directing such air against the dome of the lamp and thence along the side surface of the lamp toward the socket thereof.

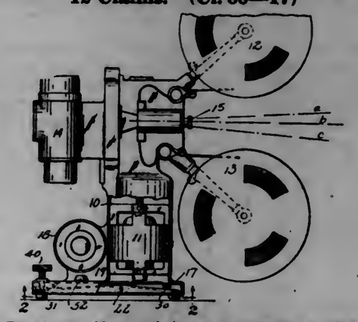
16. In a motion picture projector, the combination of a hollow base having a hollow standard communicating therewith, a lamp housing carried by the standard above and at one side thereof, a motor in the hollow standard having a vertical armature shaft, a fan on said shaft, in a chamber above the motor, and an air passage

leading upwardly from one side of said chamber into the lamp housing, there being provision for admitting air into the hollow base, whereby air



may pass into the hollow standard and between the armature and field of the motor and thereafter about the lamp to cool both the motor and lamp.

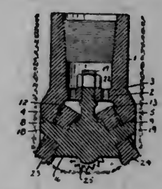
1,921,215
MOTION PICTURE PROJECTOR
Ernest S. Carpenter, Cleveland Heights, Ohio, assignor to The Augustus-Carpenter Company, Cleveland, Ohio, a Corporation of Ohio
Application May 10, 1932. Serial No. 610,420
12 Claims. (Cl. 88—17)



12. In a motion picture projector, the combination of a main frame carrying the reels, motor, lamp, and projecting lens, and having a laterally extending base portion with downward edge flanges, a sub-base housed within the boundary of said flanges and pivoted to said base portion, and means for rocking the main frame on the sub-frame and holding it in any desired position.

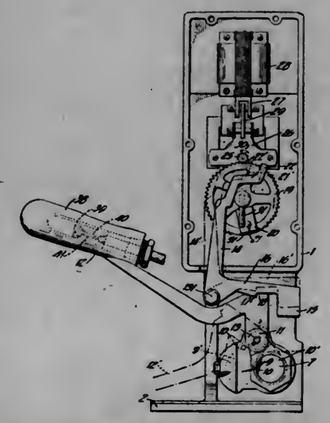
1,921,216
ROLLER BIT
William L. Childs, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a Corporation of Texas
Application December 12, 1931. Serial No. 580,675
5 Claims. (Cl. 255—71)

1. A roller bit having a head, said head having a central opening and four depending projections at substantially ninety degrees apart, each of said projections having therein a downwardly opening slot; a cutter support having a central post projecting upwardly, side cutter pins projecting upwardly and outwardly, a cross cutter pin projecting outwardly, and a cross cutter pin projecting upwardly and outwardly; said post being slidable in said opening and said pins in said slots; means to hold said post in said opening; a side roller cutter on each of said side cutter pins; a cross roller cutter on one of said cross cutter pins; and two cross roller cutters on the



other of said cross cutter pins; said cross roller cutters projecting below said side roller cutters to cut in advance thereof; the cutting paths of said side roller cutters and cross roller cutters being substantially equal to the transverse area of said head.

1,921,217
SAFETY DEVICE
James T. Coghill, Hoosick Falls, N. Y., assignor to The Noble & Wood Machine Company, Hoosick Falls, N. Y., a Corporation of New York
Application September 12, 1932
Serial No. 632,657
13 Claims. (Cl. 92—50)

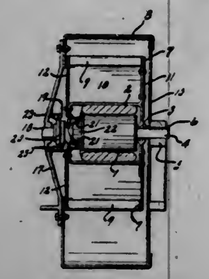


1. In a safety device of the character described, the combination with a felt conditioner provided with a water nozzle which is reciprocated across the felt, of a valve for shutting off the supply of water thereto, and means responsive to a stoppage in the movement of said nozzle for automatically closing said valve.

1,921,218
FAN
Clyde W. Colby, East Cleveland, Ohio
Application February 29, 1932. Serial No. 595,761
1 Claim. (Cl. 230—117)

In apparatus of the class described, a motor unit comprising cooperative rotor and stator parts and a blower unit comprising cooperative runner and casing parts, said stator part being arranged to extend concentrically of said casing, through the hollow thereof, with its ends secured with the casing side walls, said rotor part having end bearings upon said stator part and

said runner part being arranged within said cas-



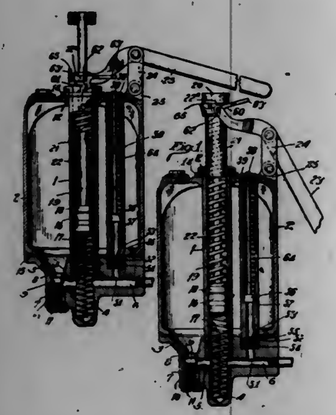
ing about said rotor part and having supporting connections therewith at its ends.

1,921,219

FORCE-FEED LUBRICATION PUMP

Irving Cowles, Chicago, Ill., assignor to Union Bank of Chicago, Trustee, Chicago, Ill., a Corporation of Illinois

Application September 28, 1927
Serial No. 221,197
28 Claims. (Cl. 184—28)



25. In a lubricating system, a pump equipped with a spring-pressed piston for discharging fluid under a degree of pressure determined by the said spring, and fluid pressure responsive means for automatically relieving the spring pressure on said piston prior to completion of the full normal discharge stroke of said piston.

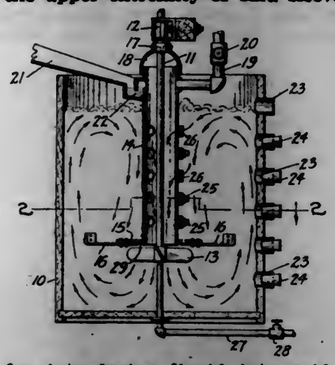
1,921,220

CONDITIONER AND AGITATOR

Arthur C. Daman, Denver, Colo.

Application August 8, 1927. Serial No. 211,328
6 Claims. (Cl. 261—93)

1. A pulp agitator comprising a tank; a shaft suspended within said tank; an impeller carried by said shaft; a disc arranged above said impeller; a sleeve spaced from and surrounding said shaft, said sleeve extending from and opening through said disc; a cap supported on and closing the upper extremity of said sleeve; and



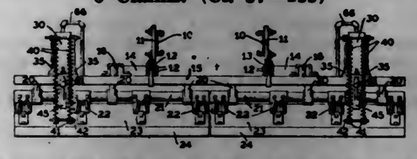
means for introducing liquid into said sleeve between said cap and said impeller.

1,921,221

HYDRAULIC SCRAPER

George E. Dean, Grand Rapids, Mich., assignor to Charles G. Willett, Grand Rapids, Mich.

Application April 27, 1931. Serial No. 533,031
6 Claims. (Cl. 37—155)



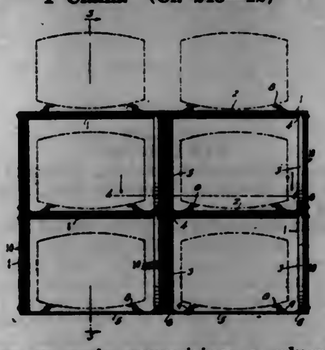
4. In combination, a beam, a cylinder mounted thereon, a scraper blade pivotally mounted upon the beam, a piston operatively associated with said cylinder, means to operate the piston in one direction, connecting means between the piston and the blade whereby actuation of the piston by the aforesaid means causes the scraper blade to move in one direction, a spring connected at one end to the scraper blade and means fastened to the other end of the spring for tensioning and fastening the same.

1,921,222

STORAGE RACK

Rudolph E. De Lamar, New York, N. Y., assignor to Henry S. Germond, Bayonne, N. J.

Application February 21, 1931. Serial No. 517,439
1 Claim. (Cl. 248—12)



A storage rack comprising a plurality of identical unitary sections each formed of angle iron bent into substantially U-shape, including

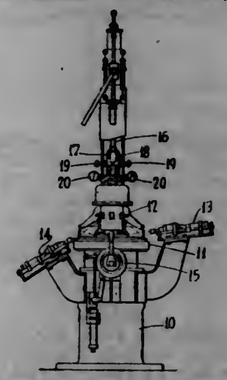
column portions and a beam portion with one of the flanges of said angle iron extending inwardly, means for connecting certain of said sections together in inverted position in spaced and parallel relation to form a horizontal row with said beam portions and said column portions respectively horizontally and vertically disposed, another section being mounted in inverted position upon each first-mentioned section in the same plane to form a second row of sections in superposed relation to the first-mentioned row, means connecting the arms of each section of the second-mentioned row to the body portion of the corresponding first-mentioned section, and a pair of barrel supporting rails mounted upon and connecting said body portions of the sections of each of said rows of sections.

1,921,223

METHOD OF DIFFERENTIALLY TRUING WIRE WHEELS

Carolus L. Eksergian, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania

Application January 3, 1931. Serial No. 506,349
4 Claims. (Cl. 29—87)



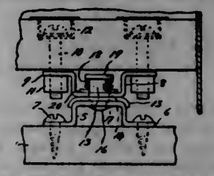
1. The method of tensioning a wire wheel consisting of a hub and rim interconnected by a plurality of axially spaced series of spokes which comprises clamping the hub and rim in the relative positions they will occupy in the completed wheel, then simultaneously tensioning individual spokes of each given series equally but of the several series to different degrees.

1,921,224

SEAT CONSTRUCTION

Burton S. Floraday, Toledo, Ohio, assignor to the Dura Company, Toledo, Ohio, a Corporation of Ohio

Application November 18, 1929
Serial No. 408,019
5 Claims. (Cl. 155—14)



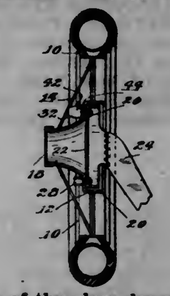
2. A mounting for an adjustable seat having a track member, a bracket member secured to the seat, one of said members having a longitudinal slot, a shoe between said members, and a pin extending through the slot in one of said members, the shoe and the other of said members.

1,921,225

SPARE WHEEL LOCK

Walter L. Hawkins, St. Louis, Mo., assignor to Duro Metal Products Company, Chicago, Ill., a Corporation of Illinois

Application September 24, 1930
Serial No. 484,015
8 Claims. (Cl. 70—90)



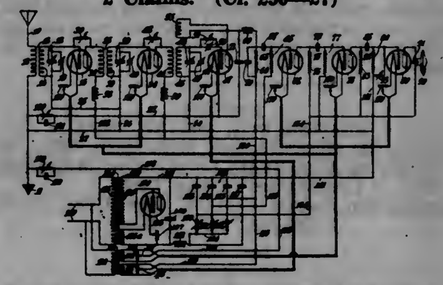
1. In a device of the class described, a housing having a passageway therethrough and provided with means to prevent its rotation, a key operated lock cylinder having an extending finger secured in said passageway, a nut element having an opening therethrough and threaded upon a bolt adapted to be removably entered into the passageway in said housing, and means carried by said nut actuated by said lock finger for interlocking said housing and said nut to prevent removal of the housing from the nut.

1,921,226

SIGNAL RECEIVING SYSTEM

Harold R. Hayden, Brooklyn, N. Y.

Application March 19, 1929. Serial No. 348,279
2 Claims. (Cl. 250—27)



2. A vacuum tube signal receiving system having a radio frequency amplifying portion, a detector stage and an audio frequency amplifying portion comprising resistance coupled stages; the amplifying portions having a common plate circuit return including a relatively low resistance and the detector stage having a plate circuit return including a relatively high resistance; connections between the grid of each tube and the negative side of the resistance in the plate circuit of such tube; high capacity condensers shunting the respective resistances, means for supplying the plate circuits with direct current which is subject to occasional variations which tends to create disturbing variation in the plate circuits, means for heating the cathodes of the tubes by current subject to variations which

tends to create disturbing variations in the plate circuits, means for causing the variations applied to the earlier stages and carried forward through the interstage couplings and thereby affecting the grids of the later stages to oppose at a resistance coupling variations supplied to a later stage and means for causing the values of the opposing effects to bear such relation to one another that disturbing variations in the output circuit are substantially eliminated.

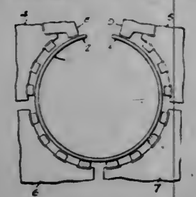
1,921,227

METHOD OF ALIGNING EDGES FOR FLASH WELDING TUBES

Warren F. Heineman, Shorewood, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York

Application October 19, 1929. Serial No. 400,889

5 Claims. (Cl. 219—10)



1. The method of making pipe from preformed blanks which consists of aligning the edges of the blank by applying external forces which coact with the inherent resiliency of the blank to guide the edges toward one another continuously reducing the cross-sectional over-all dimensions, the external forces being applied substantially throughout the periphery as the blank approaches a predetermined shape to effect a movement of the edges which will cause them to meet evenly, establishing an electric arc between the edges to fuse them and bring them to a welding condition as they approach one another, and finally forcing the edges into engagement to weld them, the reduction of the cross-sectional over-all dimensions being stopped when the blank is reduced to a predetermined size and welded giving a pipe of a predetermined size and shape.

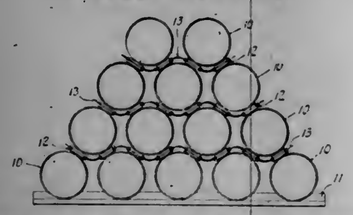
1,921,228

SPACER FOR PILING PIPE

George B. Hetherington, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York

Application August 17, 1931. Serial No. 557,598

7 Claims. (Cl. 214—6)



1. In a spacer for piling pipe comprising a flexible wire, a plurality of blocks of material softer than the pipe, and means for frictionally connecting the blocks to the wire in spaced relation whereby the blocks may be moved along the wire when subjected to the weight of the pipe to permit the proper settling of the pipe in a pile.

1,921,229

SELF-RETAINING CARTRIDGE

David Hodge, Chicago, Ill., assignor to The Safety Mining Company, Chicago, Ill., a Corporation of Illinois

Application April 15, 1929, Serial No. 355,279, and in Great Britain September 18, 1928

11 Claims. (Cl. 102—6)



1. A cartridge of the character described comprising a discharge passage, a normally retracted locking dog, and means extending between said dog and discharge passage, arranged to utilize the pressure of the expanding gases upon discharge in a manner to move said locking dog outwardly.

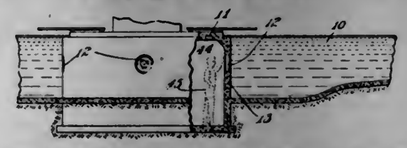
1,921,230

OBSERVATION PORT

Frank B. Hunter, Indianapolis, Ind.

Application October 19, 1931. Serial No. 569,684

8 Claims. (Cl. 240—2)



1. The combination with a swimming pool, of a compartment located within the boundaries of said pool and primarily below the water level in said pool, a wall separating said compartment from the pool and formed with an observation port therein below the water level in said pool, and transparent material closing said port.

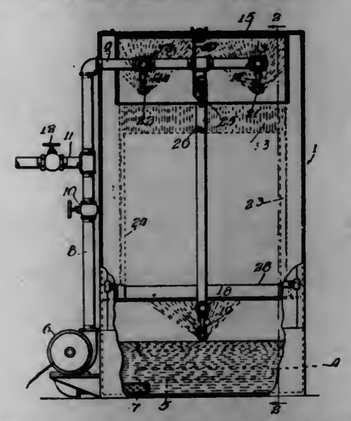
1,921,231

APPARATUS FOR COOKING

William Jourdan, Chicago, Ill.

Application July 12, 1929. Serial No. 377,823

8 Claims. (Cl. 99—2)



1. In a cooking device of the kind described, spray nozzles in the upper part thereof adapted to project hot water upwardly, means in the top of the device adapted to cause the hot water to form vertical sheets adjacent to the outer walls, and means for supporting the products to be cooked within said sheets of water.

1,921,232

AUTOMATIC CONTROL SYSTEM FOR WASTE WATER

Leslie H. Kamper, Chicago, Ill., assignor to King's Laundry Co., Chicago, Ill., a Corporation of Illinois

Application May 31, 1930. Serial No. 458,819

3 Claims. (Cl. 257—2)



1. In an apparatus for controlling the discharge of liquid from a machine such as a washer and the like, a gutter below the machine into which liquid is discharged from said machine, thermally sensitive means responsive to the temperature of liquid flowing in said gutter, a plurality of conduits for receiving the liquid from said gutter and means operable by said thermally sensitive means for causing said liquid to be delivered to one or the other of said conduits in accordance with the temperature of the liquid.

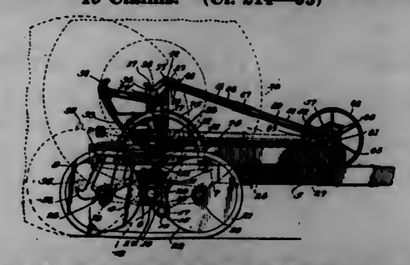
1,921,233

CABLE REEL TRANSPORTING VEHICLE

Joseph Kuchar, Chicago, Ill., assignor to Athey Truss Wheel Co., Chicago, Ill., a Corporation of Illinois

Application May 6, 1931. Serial No. 535,439

19 Claims. (Cl. 214—65)



1. A vehicle comprising in combination a track laying wheel unit, a frame resiliently supported thereon, said unit comprising end brackets and an offset axle to provide space for a cable reel, cable reel brackets pivoted to said frame, mechanism for actuating said brackets to raise and lower a reel supported thereby, said actuating mechanism comprising a pair of telescoping units, each unit being pivotally connected to one of said reel brackets and to said frame at a point remote from the point of pivoting of said cable reel brackets on said frame.

1,921,234

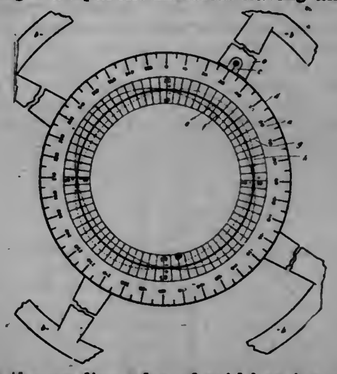
GRADUATED CIRCLE FOR RADIO DIRECTION FINDERS

August Leib, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany

Application July 22, 1929, Serial No. 380,169, and in Germany August 4, 1928

2 Claims. (Cl. 250—11)

1. A correction chart to be used with directional radio apparatus inherently subject to pointing errors comprising, a bearing circle, correction curves plotted on said bearing circle, a reading edge or border on said bearing circle which serves as the abscissa circle for the correction curves which are plotted thereon, bearing reading means adapted to be moved over the bearing circle and correction curves, said means comprising transparent material having an edge



adjacent the reading edge of said bearing circle, a reference line on said transparent material and a plurality of lines terminating at each end at a point adjacent said reading circle, said lines being intersected by said reference line.

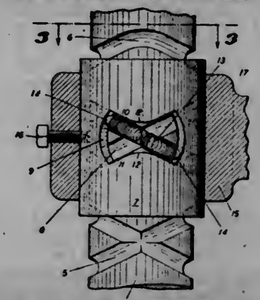
1,921,235

RECIPROCATING MOVEMENT

Ernest E. Lindsey, San Francisco, Calif.

Application October 28, 1932. Serial No. 639,943

15 Claims. (Cl. 74—14)



1. A cam follower for use in conjunction with a cam comprising a shaft adapted to be rotated, said shaft having a connected double reversed thread cut therein, said follower comprising a reciprocating sleeve slidably mounted on said shaft, and having an aperture therein, said aperture having angularly disposed sides and an arcuate end, means for preventing said sleeve from rotating, and a flexible drive member adapted to fit in and follow said threads, said drive member having a rounded end bearing on said arcuate end of said aperture.

1,921,236

METHOD AND APPARATUS FOR CONSTRUCTING A CONCRETE CAISSON

Thomas McCauley, Jr., Oak Park, Ill.

Application May 4, 1931. Serial No. 534,741

2 Claims. (Cl. 61—40)

1. The herein described method of constructing a caisson through a stratum of relatively firm material superposed upon a stratum of water bearing sand or other loose water bearing materials lying upon a stratum of bed rock or other load sustaining material, which consists in

first excavating and bracing the caisson opening through the stratum of relatively firm materials down to the stratum of water bearing sand or other relatively loose water bearing materials, and undercutting or enlarging a portion of the said bore through the materials immediately above the stratum of water bearing sand or other relatively loose water bearing materials, then forming an enclosing wall or coffer dam consisting of a plurality of vertical juxtaposed concrete cores, lying substantially within the undercut portion of the wall of the said bore and extend-



ing down to the firm stratum of material through the water bearing sand or other loose water bearing materials by the introduction of an open-ended tube supplied on the interior thereof with water under pressure to pierce the said loose stratum and to wash the said loose materials out of the tube, filling the tube with concrete, removing the tube from the concrete core thus formed, removing the core of water bearing sand or other loose water bearing materials on the inside of the wall or coffer dam thus formed, and finally filling the entire caisson with concrete.

1,921,237

TILE MAKING MACHINE

John L. McDonough and French B. Williams, Fort Worth, Tex.

Application July 12, 1930. Serial No. 467,459

2 Claims. (Cl. 25—36)



2. A tile making machine of the class described, comprising an upright frame, a stationary upper platform secured rigidly to the upright frame, a lower horizontal platform provided with means for raising and lowering same, a mould supported on said lower platform, bits for coring out material in the mould, a reversable driving mechanism embodying means for raising and lowering said bits vertically through moulding devices by means of straight and cross belts working in conjunction with reversable clutch.

1,921,238

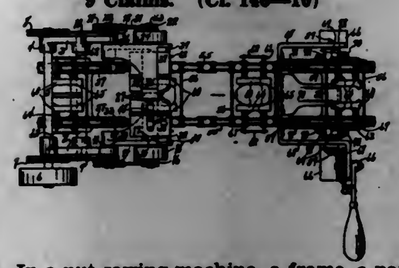
MACHINE FOR HULLING NUTS AND THE LIKE

Oran Agustus Milam, Brownwood, Tex., assignor of one-third to Douglas Coakson and one-third to Robert E. Milam, Brownwood, Tex.

Application November 19, 1930

Serial No. 496,746

9 Claims. (Cl. 146—10)



1. In a nut sawing machine, a frame, a pair of chain conveyors mounted upon said frame, yieldable nut holders mounted on said chains in opposed relation, an upper saw yieldably mounted on the frame and a lower saw yieldably mounted on the frame, the holders carrying the nuts between the saws, and means between the saws for supporting the holders and centering the nuts with relation to the saws.

1,921,239

STEERING-POST BRACKET FOR AUTOMOBILE FRAMES

Henry Miller, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York

Application November 10, 1928

Serial No. 318,522

3 Claims. (Cl. 308—34)



1. A steering post bracket for vehicles formed of sheet metal and comprising a pair of semi-tubular clamping members having laterally extending cooperating flanges for securing said members together in clamping relation, one only of said clamping members being provided with a flange at one end for facilitating attachment thereof to the frame of a vehicle, a brace for said flanged clamping member having a flange for attachment to the vehicle frame, and means for securing said brace to said flanged clamping member with the flanges of both extending oppositely in substantially the same plane.

1,921,240

POURING CUP

John W. Porter, St. Louis, Mo., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey

Application October 11, 1930. Serial No. 488,019

6 Claims. (Cl. 22—79)

1. A choke device comprising a walled cup having a base, the wall of said cup being formed to

provide an enlarged metal receiving portion and extending laterally to provide a restricted por-



tion, and a discharge nozzle in the lower part of said restricted portion.

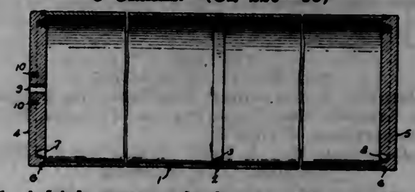
1,921,241

ELECTRICALLY WELDED HIGH PRESSURE STORAGE TANK

Arthur W. Priebe, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York

Application October 31, 1929. Serial No. 403,775

5 Claims. (Cl. 220—66)



1. A high pressure tank comprising a cylindrical body, a relatively thick flat head at each end, an annular welding groove about the outer edge of each of said heads of a depth substantially equal to the thickness of the body of the tank, an annular groove in the inner face of each head forming a thin lip between said outer and inner grooves, said lip being inserted in the cylindrical body, and fused welding metal deposited in said outer welding groove between the end of the body and the head.

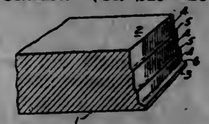
1,921,242

SCARF FOR ELECTRIC ARC WELDING THICK METAL ARTICLES

Arthur W. Priebe, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York

Application January 25, 1932. Serial No. 588,561

6 Claims. (Cl. 219—10)



4. In a thick metal article to be electric arc welded, a steeply inclined side wall portion of a scarf for forming a deep welding groove for receiving a plurality of layers of weld metal comprising, a plurality of elongate wall sections one above the other, the lower edge of each wall section being offset into the metal of the article from the upper edge of the adjacent wall section below an amount sufficient to bring to the surface excessive undercut that may be made in the wall sections by the electric arc during the welding operation, and connective ledge sections between adjacent wall sections inclined downwardly an amount sufficient to prevent flooding of the ledges by the layers of weld metal during the welding operation.

1,921,243

CONDENSER

John R. Replogle, Detroit, Mich., assignor to Copeland Products, Inc., a Corporation of Michigan

Original application December 26, 1931, Serial No. 583,230. Divided and this application June 23, 1932. Serial No. 618,934

17 Claims. (Cl. 257—36)



1. A sectional condenser comprising shells having adjacent open ends, a ring between such ends of the shells, means for connecting the shells to the ring, a coil in the condenser, means cooperating with the ring and coil for connecting the latter to a cooling fluid line exterior to the condenser, and means cooperating with the ring for conducting refrigerant into and out of the condenser.

1,921,244

BOTTLE FILLING MACHINE

Adolph R. Reynolds, Columbia, S. C.

Application March 4, 1932. Serial No. 596,835

9 Claims. (Cl. 226—105)



1. In a filling machine, the combination of a filling tube, a pump, a liquid container, a liquid valve in said container, means connecting said filling tube with said pump and liquid valve whereby the movement of said tube actuates said pump and valve, and liquid conveying means connecting said pump and liquid container.

1,921,245

TIRE RIM FOR PNEUMATIC TIRES

Ramon Rodriquez and Genaro Chaves, McNary, Ariz.

Application October 26, 1931. Serial No. 571,366

3 Claims. (Cl. 301—35)



1. A tire rim comprising, in combination, two circular rim parts abutting at the bottom of the annular rim channel, a plurality of yieldable spring latches attached at their ends to the inner periphery of the one rim part, having hooks on their free ends to engage block portions formed on the other rim part, and having tips extending axially therebeyond, said last mentioned rim part having notches formed by projections on either

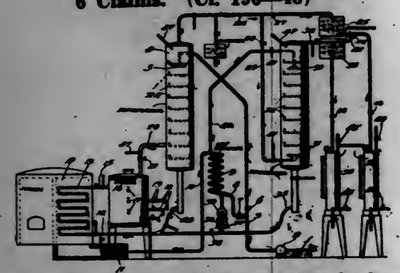
side of said block portions, said projections engaging the spring latches to prevent relative rotary movement of said parts, substantially as described.

1,921,246

PROCESS AND APPARATUS FOR CRACKING HYDROCARBON OIL

Jean D. Segny, Chicago, Ill., assignor to The Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota

Application March 16, 1923, Serial No. 625,456
Renewed March 14, 1929
6 Claims. (Cl. 196—48)



1. A continuous process for treating hydrocarbon oils, consisting in passing the oil through an elongated passageway disposed within a furnace wherein the oil is subjected to conversion conditions of heat and pressure, in directing the heated oil constituents from said enlongated passageway into an enlarged reacting zone, in passing the evolved vapors to a primary dephlegmator, in passing the vapors uncondensed in said primary dephlegmator through a second zone of dephlegmation, in placing a stream of raw oil under a mechanical pressure, in splitting said stream of raw oil, in directing one portion thereof into said primary dephlegmator to aid in the dephlegmation of the evolved vapors and to preheat said portion of the raw oil, in directing the other portion of said split stream of raw oil through a zone of heat interchange with reflux condensate withdrawn from said second zone of dephlegmation to preheat this portion of the split stream of raw oil, in then uniting the preheated portions of said split stream, and in introducing them together with reflux condensate from said primary dephlegmator to the inlet side of said elongated passageway, and in maintaining regulated superatmospheric pressure on the oil undergoing conversion.

1,921,247

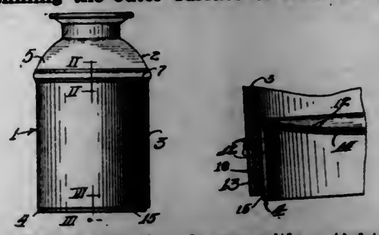
MILK CAN AND METHOD OF MAKING SAME

James P. Walker, Maywood, Ill., assignor to Solar-Sturges Mfg. Co., Melrose Park, Ill., a Corporation of Illinois

Application May 11, 1932. Serial No. 610,550
6 Claims. (Cl. 113—120)

3. In a can construction for the commercial transportation of milk, ice cream and the like, a body and a closure therefor, the inner surfaces of said body and closure having a smooth coating of tin to afford a sanitary interior and prevent corrosion of the body and closure, said closure including an inverted cup-like member whose side wall is soldered to the body only along an area remote from the top of the member, whereby the application of heat to effect a connection or separation of said body and closure may be localized to avoid disturbance of said coating.

4. The method of constructing a heavy duty can, comprising the steps of forming a can body with an open end, tinning the interior surface of said end, forming a cup-shaped closure for said end, tinning the inner and outer surfaces of said closure and fitting said closure, inverted, within said end with a tight fit, forming a foot for the can, tinning the outer surface of said foot and



fitting the foot in the closure with a tight fit, subjecting all of the interfitting parts only along an area remote from the top of the closure to a temperature which melts the tin and causes the same to flow, thereby sweating the parts firmly together only at said area, and allowing the tin to cool and solidify.

1,921,248

MUCILAGE SPREADER

William W. S. Carpenter, Oak Park, Ill., assignor to Sanford Manufacturing Co., Chicago, Ill., a Corporation of Illinois

Application May 5, 1931. Serial No. 535,262
1 Claim. (Cl. 91—67.4)



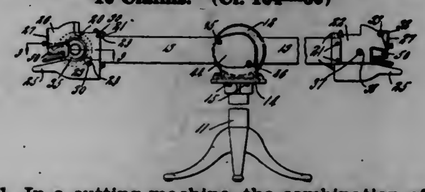
The combination, with a bottle having an opening within a neck provided with an exterior thread, of a liquid applicator made of soft, flexible rubberlike material, said applicator comprising a section adapted to extend a considerable distance within the bottle and formed at its extremity with a relatively flat, flexible liquid spreader and a section integral with the first section and adapted to project outwardly from the opening in the neck in position to be conveniently gripped by the user, a resilient washer surrounding an intermediate portion of said applicator and normally maintained against longitudinal displacement thereof, said applicator and washer providing a closure for the opening in the neck of the bottle, and a cap adapted to threadedly engage the external thread on the neck and having a central opening of a size which will freely receive the outer section of the applicator whereby, when the cap is tightened upon the neck, the washer will impinge the upper edge of the neck to provide an effective seal, said applicator, washer, and cap being removable as a unitary structure when the cap is unscrewed from the neck, said cap being readily removable from the washer and applicator by withdrawing the outer section of the applicator through the aperture in the cap.

1,921,249

CUTTING MACHINE

Frederick J. Clark, Buffalo, N. Y., assignor, by direct and mesne assignments, of one-half to Eastman Machine Company, Buffalo, N. Y., and one-half to The Welf Machine Company, Cincinnati, Ohio, a Corporation of Ohio

Application February 25, 1931. Serial No. 518,106
10 Claims. (Cl. 164—68)



1. In a cutting machine, the combination of a motor, supporting arms projecting in opposite directions from opposite ends of said motor, a knife mounted at the outer portion of each of said arms, and drive connections from one of said ends of the motor to one of said knives and from the opposite end of the motor to said other knife.

1,921,250

AUTOMATIC SEMITRAILER

George H. Conners and Fred C. Stiff, Edgerton, Wis., assignors to Highway Trailer Company, Edgerton, Wis., a Corporation

Application January 12, 1932. Serial No. 586,241
21 Claims. (Cl. 280—33.1)



4. Coupling mechanism for vehicles, comprising the combination with a vehicle frame, of guideways mounted on the frame, a king pin slidably carried in the guides and movable therein responsive to engagement of a coupling member therewith, a supporting member secured to the king pin and movable therewith, brakes for the vehicle, and instrumentalities responsive to the operation of the brakes for locking the king pin in coupling position.

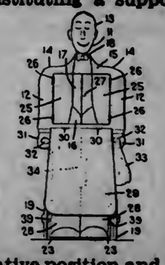
1,921,251

PORTABLE REFRESHMENT BOOTH

Edwin M. Gerould, Beach Bluff, Mass.

Application March 24, 1933. Serial No. 662,467
2 Claims. (Cl. 280—51)

1. A portable refreshment booth comprising a box-like body provided with refreshment-receiving compartments, a pair of wheels attached to said body adjacent its lower end and on which said body may be trundled from place to place, the front of said body extending beyond the sides and top and being shaped to simulate a human figure, the portion of the upper part of said front having swinging doors giving access to one of the compartments and the lower portion of said front also having swinging doors which when opened give access to another compartment, and a swinging leaf hinged to the front between the upper and lower doors and adapted to be swung upwardly into a position to function as a table, said lower doors constituting a support for the leaf



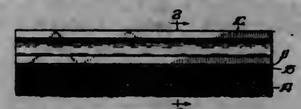
when in its operative position and the latter when folded downwardly simulating the apron of the human figure.

1,921,252

MEANS FOR ATTACHING A SPONGE RUBBER PAD TO A BACKING MEMBER

Albert Graf, Chicago, Ill.

Application September 26, 1932
Serial No. 634,920
3 Claims. (Cl. 15—244)



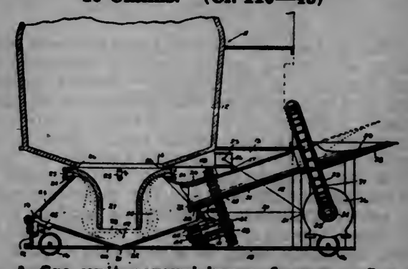
2. An article of the type described, comprising a back member, a vulcanized rubber sheet applied to one side of said back member, a thin open-work strip overlying said sheet and nailed to said back member through said sheet, and a pad of sponge rubber overlying and cemented to said sheet and strip, said strip lying wholly between said sheet and said pad.

1,921,253

FIRE UNIT FOR FURNACES

Frank C. Greene, Milwaukee, Wis.

Application August 27, 1928. Serial No. 302,320
10 Claims. (Cl. 110—45)



1. A fire unit comprising a frame, a fire pot mounted on said frame and comprising a rotatable hearth and a fire-pot cover for said hearth, an open-ended tube mounted on said frame and having its lower end positioned in said fire pot adjacent the bottom thereof, and means mounted on said frame for feeding fuel to said fire pot.

1,921,254

ELECTRIC CIGAR AND CIGARETTE LIGHTER

Frank J. Hammeral, Akron, Ohio

Application June 2, 1932. Serial No. 614,925
6 Claims. (Cl. 40—126)

1. In a device of the character described, a panel, tobacco smoking means indicated there-

on, said panel provided with an opening located at a spot indicated an area of combustion on said smoking means, an electrical resistance ele-



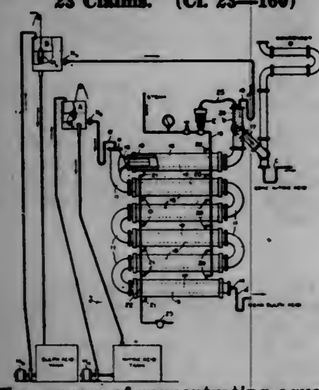
ment mounted in said opening and means to operatively connect said resistance element in an electric circuit.

1,921,255

NITRIC ACID CONCENTRATION

Ingenuin Hechenbleikner, Charlotte, N. C., assignor, by mesne assignments, to Chemical Construction Corporation, a Corporation of Delaware

Application April 3, 1929. Serial No. 352,093
23 Claims. (Cl. 23—160)



1. The process of concentrating aqueous nitric acid to a desired predetermined concentration which consists in continuously passing aqueous nitric acid in admixture with a dehydrating agent through a series of retort chambers connected in cascade for a continuous liquid flow in one direction and for a continuous gaseous or vapor flow in the reverse direction, of heating said retort chambers sufficient to effect a driving-off in said retort chambers of the nitric acid as nitric acid vapor, the nitric acid vapor flow through the retort chambers being in a direction opposite to the liquid flow therethrough, and of so regulating the heating of said retort chambers as to predetermine the exit temperature of said nitric acid vapor.

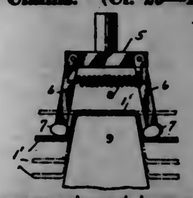
10. In apparatus for separating nitric acid from an admixture of aqueous nitric acid and a dehydrating agent comprising a plurality of retort chambers, means connecting the chambers in cascade for liquid flow in one direction and for gaseous or vapor flow in the reverse direction, means for supplying a heating medium externally to said chambers, feed inlets for the acid and dehydrating agent for the series of chambers, an outlet for the dehydrating agent associated with the last chamber of the series, an exit duct for the nitric acid vapors associated with said series of chambers, and means for so automatically regulating and varying the operation of the heating medium as to predetermine the exit temperature of said nitric acid vapor.

1,921,256

MULTICOMPARTMENT TRAY AND METHOD OF MAKING THE SAME

Theodore M. Hiester, Dayton, Ohio, assignor to United Aircraft Products Inc., Dayton, Ohio, a Corporation of Ohio

Application April 6, 1931. Serial No. 528,127
18 Claims. (Cl. 29—148.2)



1. A multi-compartment tray comprising a top plate and a plurality of relatively deep cup shaped receptacles formed by a rotary forging operation from the material of the top plate and integral therewith, having side walls of less thickness than the top plate.

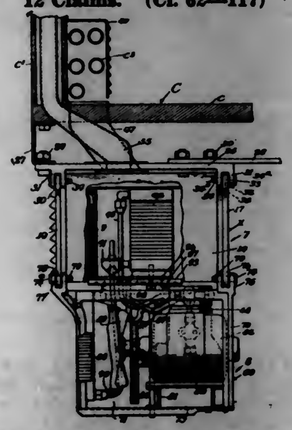
14. The method of forming a multi-compartment tray from a sheet of material including the projection by a rotary forging operation of closely spaced compartments from the original sheet without distorting the intermediate and the surrounding portions of the stock sheet.

1,921,257

AIR CONDITIONING APPARATUS

Lee W. Melcher, Winnetka, Ill.

Application July 18, 1931. Serial No. 551,696
12 Claims. (Cl. 62—117)



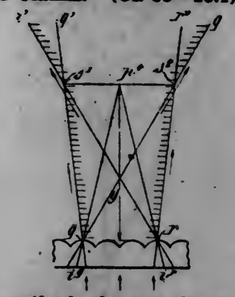
1. In an air conditioning apparatus of the character described, the combination of a housing having an air inlet, an air filter in the housing, a motor-driven fan arranged in the housing to draw air through the inlet and to force the air through the filter and then out of the housing, and a refrigerating unit comprising a housing connected detachably to the first mentioned housing, a motor-driven compressor in the second mentioned housing, and a refrigerant line connected to the compressor, extending through an opening in said first mentioned housing into an operative position wherein it serves to cool the air forced by the fan through the filter and removable from its operative position through the opening upon detachment of the refrigerating unit from the housing for the filter and fan.

1,921,258

COLOR PHOTOGRAPHY

Charles Nordmann, Paris, France

Application March 15, 1930, Serial No. 436,063, and in France August 19, 1929
5 Claims. (Cl. 88—16.4)



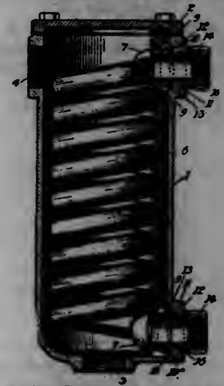
1. In the method of correctly projecting lenticular color photographic copies the step of positioning the point where the axes of the elementary beams coming from a copy intersect in front of the lenticulations thereof at a finite predetermined distance and positioning a projecting filter at said point.

1,921,259

JOINT FOR HEATER COILS

Charles A. Olson, Geneva, Ill., assignor to Crane Co., Chicago, Ill., a Corporation of Illinois

Application February 14, 1931. Serial No. 515,738
1 Claim. (Cl. 285—25)



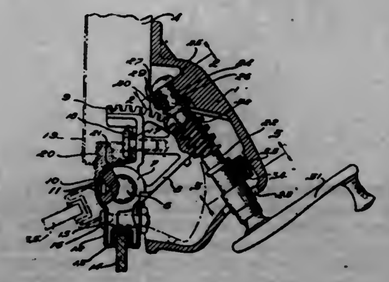
In a hot water heater, a casing, a heating coil therein, said coil terminating in a fitting having a threaded opening thereinto surrounded by a seating rim, said casing having an opening therethrough in alignment with said fitting, the inner surface of said casing being recessed surrounding said opening, a connecting member extending through said casing from the exterior thereof and threadedly engaging said fitting, said member having a shoulder engaging the exterior of said casing, and a gasket seated in said recess between said seating rim and the interior surface of said casing, said gasket having projecting edges engaging the walls of said recess to retain the gasket against displacement from said recess during insertion of said member.

1,921,260

WINDSHIELD OPERATING MECHANISM

Albert T. Potter, Detroit, Mich., assignor to Ainsworth Manufacturing Corporation, a Corporation of Michigan

Application October 4, 1930. Serial No. 486,356
2 Claims. (Cl. 296—84)



2. A windshield operating unit comprising a fixed support adapted to be secured to a vehicle frame, a pivoted worm segment adapted to be secured to a windshield and pivotally secured with respect to the support, a worm having a bearing at one end in the support and engaging the worm gear, the bearing comprising members each having an oppositely disposed radially inwardly convex surface whereby to permit swinging movement of the worm and resilient means urging the worm into engagement with the worm gear.

1,921,261

HINGE CONSTRUCTION

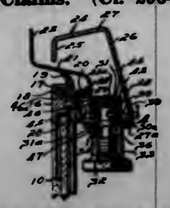
Albert T. Potter, Detroit, Mich., assignor to Ainsworth Manufacturing Corporation, a Corporation of Michigan

Application July 13, 1931. Serial No. 550,313
8 Claims. (Cl. 296—92)



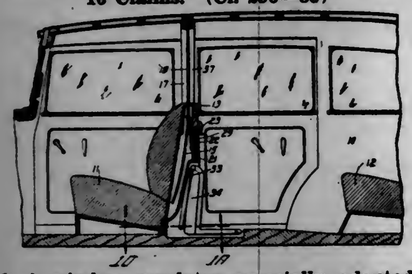
1. In combination, a windshield member hinged to a frame member, the hinge comprising parts respectively secured to the members, each of said parts having surfaces of different radii with respect to the hinge axis, the arcuate surfaces of one hinge part movably contacting respectively with corresponding arcuate surfaces of the other hinge part, and a resilient sealing element on one member resiliently contacting with an arcuate surface on the hinge element of the other member to seal the hinge throughout hinging movement.

1,921,262
CONTROL MEANS FOR WINDSHIELDS
Albert T. Potter, Detroit, Mich., assignor to Ainsworth Manufacturing Corporation, a Corporation of Michigan
Application December 17, 1931. Serial No. 581,648
3 Claims. (Cl. 296—84)



1. In combination, a windshield hingedly connected at one edge to a vehicle body, a windshield regulator comprising a link interconnecting the body and the windshield, one end of said link being pivoted to the body and the other end of said link being slidably pivoted to the windshield, clamping means for securing said link in various adjusted positions, the sides of said windshield overlapping inwardly extending flanges on the vehicle body front corner pillars or posts, said inwardly extending flanges having notches therein for receiving said link clamping means and a garnish moulding for covering said link when the windshield is in closed position, said moulding having a slot therein for receiving said link clamping means.

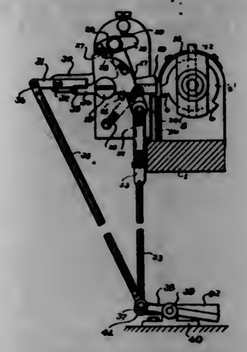
1,921,263
WINDOW REGULATOR
Lawrence B. Rivard, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware
Application May 18, 1931. Serial No. 538,017
16 Claims. (Cl. 296—85)



1. A window regulator especially adapted to reciprocate one end of a slidable partition along a curved path comprising, an arm pivotally mounted so as to swing in a path substantially in the plane of said partition, the free end of said arm being connected to one edge of the partition to actuate same, means for oscillating said arm, and a hinge disposed in said arm permitting the outer end thereof to swing in a path transverse to its plane of oscillation whereby the outer end thereof may follow the irregular path traveled by said partition.

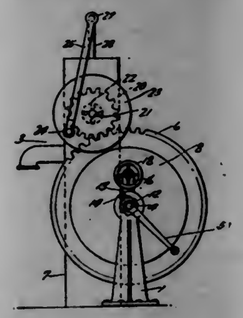
1,921,264
CLUTCH
Charles H. Sampson, Rochester, N. Y., assignor to Sampson Permagraph Company Inc., Rochester, N. Y., a Corporation of New York
Application March 26, 1929. Serial No. 350,114
3 Claims. (Cl. 192—148)

1. In a clutch, the combination with a driving member and a driven member having a movable part with a normal tendency to move into connection with the driving member, of a shifter arranged in the path of travel of the movable part to move the latter to break connection with the driving member, a stop cooperating with the movable part when out of connection with the driving member to stop the turning of the driven element, said stop being spaced from the shifter, and movable means arranged between the shifter



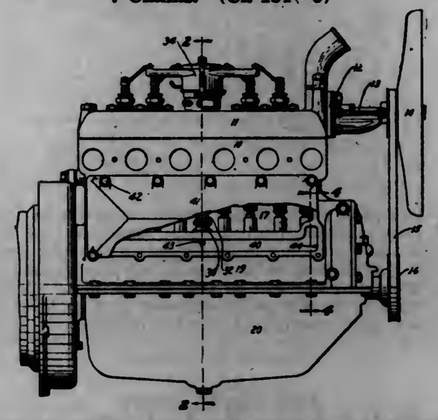
and the stop for holding the movable part against movement into connection with the driving member, said means comprising two detents each having a normal tendency to lie in holding position, means for shifting one of the detents away from holding positions, a breakable connection between the detents causing them to travel away from detaining position, and means for breaking said connection before the first mentioned detent is released by its shifting means.

1,921,265
PUMPING APPARATUS
Leo A. Shortt, Waukon, Iowa
Application September 10, 1931
Serial No. 562,032
1 Claim. (Cl. 185—37)



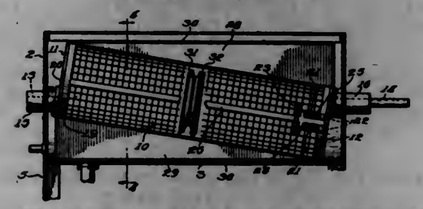
In a device of the kind described, spaced uprights, a crank shaft journaled through the uprights, spring actuated driving gears mounted at either end of the crank shaft inside of the uprights, pinion gears mounted above and in mesh with the driving gears and at one side of a plane passed vertically through the crank shaft, drive wheels at the outer sides of the pinions, laterally aligned crank pins on the drive wheels, and a U-shaped link connecting the said crank pins of the drive wheels.

1,921,266
ENGINE
Charles J. Smith, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware
Application May 26, 1930. Serial No. 455,548
7 Claims. (Cl. 184—6)



1. An internal combustion engine having an outwardly opening valve spring chamber formed therein, and a cover plate detachably secured over said chamber opening forming a closure therefore, said cover plate extending a substantial distance over one edge of said opening with said extended portion of the cover plate and coacting portion of said engine characterized by having a channel formed therebetween, which channel functions in said engine as a pressure resisting oil conduit.

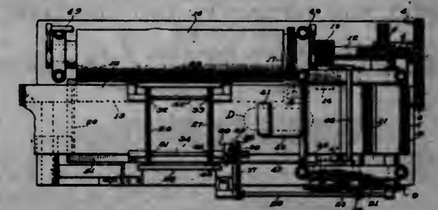
1,921,267
PIE PLATE WASHING
Dennis W. Smith, Wilmette, Ill., assignor to Colborne Manufacturing Company, Chicago, Ill., a Corporation of Illinois
Application November 17, 1930
Serial No. 496,202
2 Claims. (Cl. 141—9)



1. The method of washing pie plates which consists in assembling the plates in interfitting relation in a washing fluid and causing the plates to roll edgewise, and rocking the plates back and forth around their supporting edges transversely to their direction of rotation.

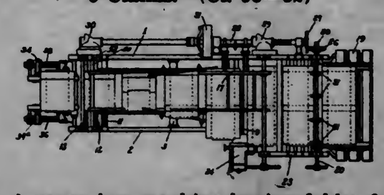
1,921,268
DOUGH ROLLING MACHINE
Dennis W. Smith, Chicago, Ill., assignor to Colborne Manufacturing Co., Chicago, Ill., a Corporation of Illinois
Application December 21, 1931. Serial No. 582,362
3 Claims. (Cl. 107—12)

1. In a dough rolling machine a pair of rollers having the function of rolling portions of dough into elliptical form, a second pair of rollers having the function of rolling the elliptically formed portion of dough into circular form, a conveyor for receiving the elliptically formed portions of dough from said first-mentioned rollers, means for pushing the elliptically formed portions of dough laterally from the conveyor to the second



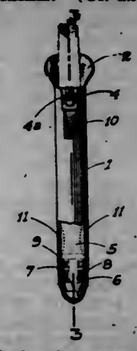
pair of rollers, an intermittently operated driving mechanism for said pushing means, and a trip device for controlling said intermittently operated driving mechanism, said trip device including means engaged by dough on the conveyor for controlling its operation.

1,921,269
PAPER BOX MACHINE
Edwin G. Staude, Minneapolis, Minn.
Application March 10, 1924, Serial No. 698,098
Renewed June 13, 1932
9 Claims. (Cl. 93—52)



1. A paper box machine having folder frames and means whereon said frames are adjustably supported, said means being mounted to yield transversely of their longitudinal axes to compensate for any variation in their relative parallel position.

1,921,270
POCKET SHEATH FOR FOUNTAIN PENS
Daniel H. Talt, Stockton, Calif.
Application August 22, 1930. Serial No. 477,087
4 Claims. (Cl. 120—108)



1. In a sheath for fountain pens, the combination with a tube having a closed end, a separate soft rubber cylinder fitted in the tube, and an inwardly projecting and relatively thick continuous band formed integral with the cylinder intermediate its ends and adapted to engage the

nib of a pen inserted in the tube and close the ink feed opening therein; the top of the cylinder forming a stop for the adjacent end of the pen barrel.

1,921,271

BELT FOR GARMENTS AND THE LIKE ARTICLES

Louis Lubin, Brooklyn, N. Y.

Application December 29, 1932. Serial No. 649,271
3 Claims. (Cl. 66—170)



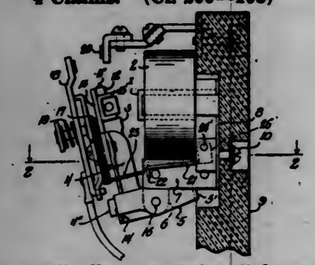
1. A pajama belt comprising a relatively narrow strip of knitted fabric, said strip comprising a longitudinally extensible intermediate section of loosely knit threads having longitudinally extending elastic threads incorporated therewith, and end sections of relatively inextensible knit fabric, said end sections constituting tie cord portions for said belt.

1,921,272

SWITCH

Hermon L. Van Valkenburg, Wauwatosa, Wis., assignor to Square D Company, Detroit, Mich.

Application March 3, 1932. Serial No. 596,541
4 Claims. (Cl. 200—103)



1. A magnetically operated switch comprising a movable member, an electromagnet for operating said movable member, movable contacts operated by said movable member, cooperating stationary contacts, and a latch for locking said movable member in switch-open position and retracted by said electromagnet to releasing position, said latch being biased towards locking position and the movable portion of said latch being out of contact with any magnetic portion of said electromagnet when in releasing position, whereby the effect of residual magnetism upon said latch is avoided.

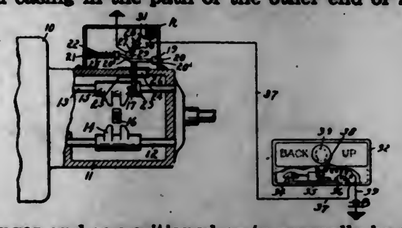
1,921,273

SIGNALING DEVICE

Max Wald, New York, N. Y.

Application January 20, 1931. Serial No. 509,901
2 Claims. (Cl. 200—59)

1. An electrical switch for use with the gear shift mechanism of a motor vehicle to close an electric circuit comprising a casing, a rod slidably journalled in said casing and having two parallel straight portions joined by an oblique portion, spring means continuously urging said rod in one direction, means to limit the movement of said rod in said direction, a plunger member slidably borne in said casing and extending at right angles to the oblique section of said rod, spring means urging one end of said plunger against said rod, said plunger member being so positioned that when said rod is in normal position said end of said plunger rests on said oblique portion, a stationary contact member insulatively mounted in said casing in the path of the other end of said



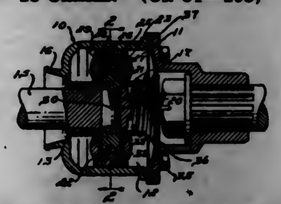
plunger and so positioned as to normally be free of said plunger member, and means projecting from said rod for engagement with said gear shift mechanism to shift said rod longitudinally in opposite direction to the action of its spring to displace said plunger member and cause it to engage said stationary contact member.

1,921,274

UNIVERSAL JOINT

Archibald A. Warner, Royal Oak, Mich., assignor to The Universal Products Company, Inc., a Corporation of Delaware

Application October 13, 1932. Serial No. 637,615
13 Claims. (Cl. 64—103)



1. A universal joint comprising a casing having opposed and parallel cylindrical guides, a shaft member projecting endwise into the casing between the guides, trunnions projecting transversely from opposite sides of the member and into the guides, truncated spherical members having openings receiving the trunnions for slidable movement thereon, each spherical member contacting with one guide at opposite sides of the trunnion, and a member on the end of each trunnion for engaging the guide beyond the end of the trunnion.

1,921,275

PEANUT BUTTER AND PROCESS FOR MAKING THE SAME

Rudolf Werner, Maywood, Ill.

No Drawing. Application August 15, 1930, Serial No. 475,642. Renewed January 16, 1933
2 Claims. (Cl. 99—11)

1. The method of producing a nut butter consisting of combining finely-ground nuts with an oil, and whipping the compound to a foamy consistency.

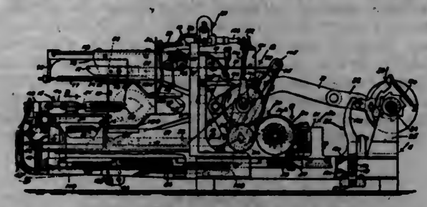
1,921,276

PEACH PITTING MACHINE

George Wilcox, Riverside, Calif., assignor to California Canning Machinery Company, a Corporation of California

Application February 20, 1929. Serial No. 342,702
25 Claims. (Cl. 146—28)

1. In a pitting machine, the combination of: an incisor; a reciprocable pitting center head; a pitting center reciprocably mounted in said pitting center head and arranged to impale a fruit upon said incisor; means for holding said



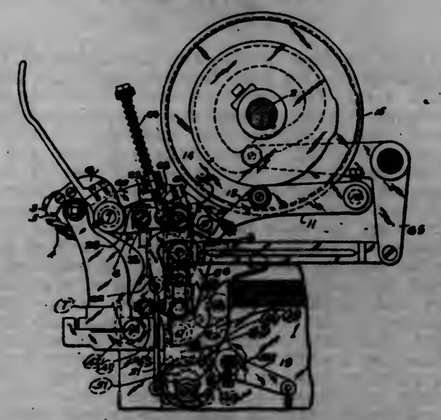
head in a retracted position and means operable by the engagement of a fruit pit with said pitting center for releasing said holding means.

1,921,277

SHOE STITCHER

Eugene G. Wolf, St. Louis, Mo., assignor to Landis Machine Company, St. Louis, Mo., a Corporation of Missouri

Application September 5, 1931. Serial No. 561,375
13 Claims. (Cl. 112—61)



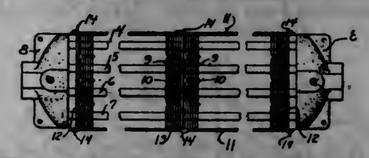
1. In a stitcher, a single thread lock controlling the passage of thread through the stitcher, a thread tension device, mechanism normally holding said lock and device in operative position throughout a portion of the cycle of operation of the machine, and manually operable means for releasing the thread from said lock and device during said portion of the cycle of operation of the machine.

1,921,278

RADIATOR

Fred M. Young, Racine, Wis.

Application July 27, 1932. Serial No. 624,972
2 Claims. (Cl. 257—136)



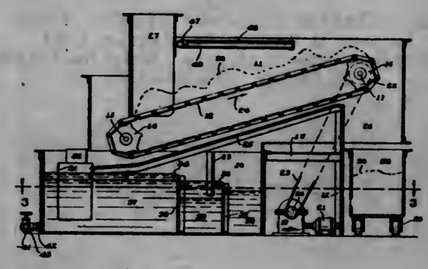
1. In combination with a radiator core including a tube, and radiating fins connected with the tube and extending therebeyond, side plates extending across the opposite marginal edges of the fins, transverse plates carried by the tube and connected with the side plates to hold the same in position adjacent to the said opposite marginal edges of the fins, but independently thereof, said transverse plates being formed of sheet metal and expanding and contracting substantially in harmony with the expansion and contraction of the fins, and compensating means formed in the fins to compensate for any differential in expansion and contraction between the transverse plates and fins.

1,921,279

OIL RECOVERY APPARATUS

Bennett R. Andersen, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware

Application December 23, 1929
Serial No. 416,099
1 Claim. (Cl. 210—60)



A device for separating the oil from an oil and water mixture comprising, a rectangular shaped separator tank adapted to have said mixture conducted into one end thereof, a dam of lesser height than said tank extending there across, a second dam of lesser height than the first mentioned dam extending across said tank, said dams being so positioned that they form a plurality of partitions across the tank of gradually receding height when viewed from the end of the tank adapted to receive said mixtures, the upper edge of each of said partitions being rolled over towards the mixture receiving end of said tank so as to provide flat portions which are slightly inclined downwardly towards said receiving end and which flat portions form the top edge of each of said dams, and a baffle plate extending across said tank disposed in position between said dams, the lowermost edge thereof being spaced between the bottom of said tank and the top edge of said second mentioned dam and the upper edge of said baffle plate being positioned above the top edge of the first mentioned dam, said inclined portions being adapted to collect particles floating on the surface of said liquid so that they may be readily raked off.

1,921,280

COMBINATION CHECK AND GATE VALVE

James F. Blake, Tulsa, Okla.

Application September 8, 1930. Serial No. 480,268
2 Claims. (Cl. 277—23)

1. In a device of the character described, a housing having transverse openings, conduit sections extending into said openings and forming opposite valve seats, longitudinal ribs on the housing and said sections for uniting said members, a valve plug assembly in said housing including a supporting member, a valve plate rotatably mounted on said member in transverse

sliding relation with one seat, and a second valve

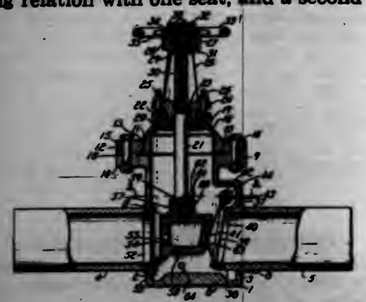


plate mounted in the housing in swinging relation with the opposite seat.

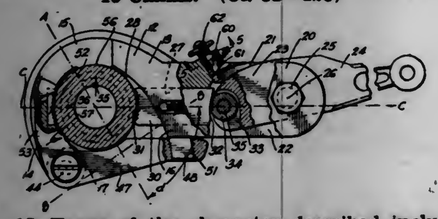
1,921,281

ADJUSTABLE LOCKING TUBING TONG

Anthony E. Carlson, Los Angeles, Calif.

Application January 12, 1931. Serial No. 508,062

15 Claims. (Cl. 81—128)



15. Tongs of the character described including, pipe encircling means, a handle rigidly connected with said means, a jaw slidably carried by said means operable to grip a pipe, and means for actuating the jaw including a rod connected with the jaw and slidable in an opening in the handle, a cam pivotally mounted on the outer end of the handle for operating the rod, means on the cam for receiving a line for turning the tongs, and means for limiting the movement of the rod and jaw whereby the force transmitted by the line may turn the tongs after actuation of the jaw.

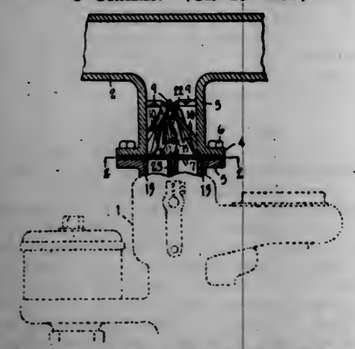
1,921,282

GAS EQUALIZER FOR INTERNAL COMBUSTION ENGINES

William N. Cook, Battle Creek, Mich.

Application August 29, 1932. Serial No. 630,837

6 Claims. (Cl. 48—180)



1. In an apparatus of the class described, the combination of a plurality of spirally twisted blades radially arranged and adapted to fit across the manifold of an internal combustion engine, a plurality of spirally twisted vanes depending and diverging therefrom to form a frustum shaped frame adapted to fit within the walls of said manifold, and a pair of vanes extending from said blades substantially axially of said frame in the direction of said diverging vanes each twisted lengthwise to give it a spiral form opposed to the spiral form of the other of said vanes and each having a dished portion.

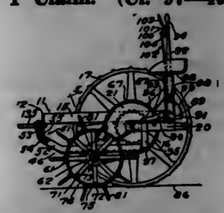
1,921,283

TRAVELING CULTIVATOR

John S. Craigmyle, Sparta, Ky.

Application April 21, 1932. Serial No. 606,627

1 Claim. (Cl. 97—40)



In a machine of the character described, the combination of a main frame comprising a front bar, a rear bar, end bars and a forwardly extending bracket on said rear bar adjacent each end thereof between said end bars forming a gear and clutch receiving space at each end of said main frame, an independent axle at each end of said main frame at the rear portion thereof, said axles journaled on said respective end bars and said respective brackets adjacent thereto, a traction wheel fixed to each of said axles outside said end bars, a sprocket-wheel and a clutch therefor about each of said axles in said respective spaces, a rotor frame comprising a front bar, a rear bar and end bars, the front bars of said respective frames hinged together, a shaft journaled on said rotor frame, a rotor secured on said shaft, said rotor provided with fingers arranged to enter the ground, a sprocket-wheel at each end of said shaft, a pair of sprocket-chains respectively looped direct about said respective first-named sprocket-wheels and said respective second-named sprocket-wheels, and means between the rear portions of said frames for adjusting the elevation of said rotor, and arranged whereby to drive said rotor by a single pair of sprocket-chains looped direct about the axes of rotation of said traction wheels and said rotor.

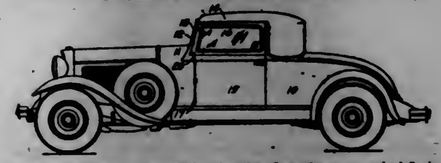
1,921,284

AUTOMOBILE BODY CONSTRUCTION

Henry R. Crecelius, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware

Application June 10, 1931. Serial No. 543,409

4 Claims. (Cl. 296—28)



1. In an automobile body having a rigid top non-detachably associated therewith and having a door opening in one side thereof extending substantially the full height of said body, an upwardly and rearwardly slanting windshield post associated with said body, said post forming the upper portion of the forward edge of said door opening and having its lower end spaced a substantial distance forwardly from the lower portion of said forward edge, a door extending substantially the full height of said door opening and forming a closure therefor, said door being characterized by having its forward edge built around a continuous door pillar which is forwardly offset intermediate of its ends so as to be complementary to the forward edge of said door opening, a plurality of aligned hinges securing the lower portion of said door to the adjacent edge of the door opening and securing the upper portion of the door to the adjacent portion of the windshield post, said door having a window opening therein, said pillar being of sufficient size that it will possess the structural strength to pivotally support said door over its full height, while still not materially obstructing the driver's vision, and a reciprocable window glass mounted within the lower portion of said door so as to be operatively raised to close said window opening.

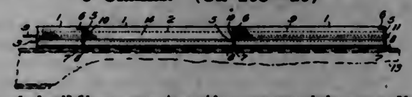
1,921,285

COMPOSITE SLAB STRUCTURE

Clarke F. Davis and John G. Brush, Westfield, N. J., assignors to Structural Gypsum Corporation, Linden, N. J., a Corporation of Delaware

Application July 28, 1930. Serial No. 471,137

5 Claims. (Cl. 108—10)



1. A building construction comprising purlins, a series of spaced apart assembled building units supported thereon, each unit including a plurality of precast slabs tied together between structural elements, the structural elements resting upon the purlins, each of the structural elements having a base flange extending on each side of the web, and other precast slabs between the units, said slabs being supported at each end upon the base flange of a structural element of an assembled unit.

1,921,286

ROPE CLAMP

Edward E. Erickson, Moline, Ill.

Application July 25, 1932. Serial No. 624,480

2 Claims. (Cl. 24—133)



1. In a device of the class described, a base and a clamping member, said base having spaced projecting ears with upwardly opening slots in their upper ends formed with restricted necks to permit assembly with and disassembly from the clamping member, and to prevent accidental disassembly, a channel-shaped clamping member having laterally projecting spindle elements received in said slots, said elements each having one transverse dimension greater than the width of said necks and said member having a downwardly projecting end for gripping a rope against the base, and an upwardly projecting end forming a guide for a rope.

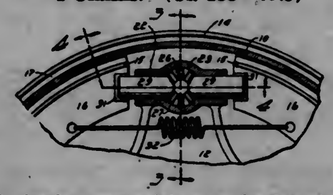
1,921,287

BRAKE

Eugene J. Farkas, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware

Application March 16, 1931. Serial No. 522,871

4 Claims. (Cl. 188—79.5)



1. A brake comprising a brake drum and brake anchor, an internal brake shoe having a reinforcing web disposed in the plane of the shoe, a stud mounted in said anchor having its axis lying in the plane of said reinforcing web, one end of said stud being slotted to receive said web whereby radial movement of the web in the slot is permitted so that the adjacent end of said shoe may move radially into engagement with the brake drum when the brake is applied, and means for resiliently returning said shoe to obtain clearance between the anchored end of the shoe and the brake drum when the brake is released.

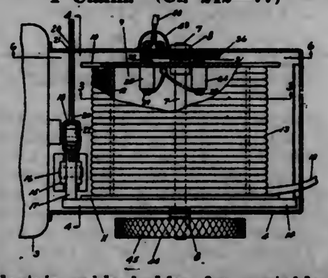
1,921,288

CABLE REEL FOR ELECTRIC APPLIANCES

Dora L. Farmer and Thomas B. Farmer, Portland, Oreg.

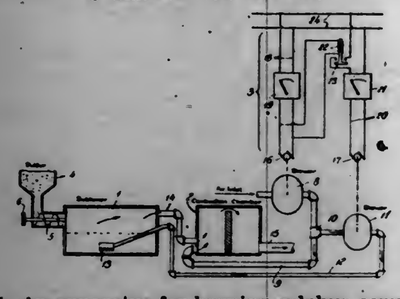
Application August 28, 1931. Serial No. 559,924

1 Claim. (Cl. 242—77)



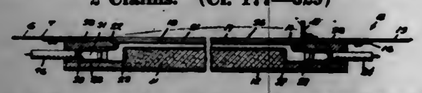
An electric cable holder for portable electric appliances and tools employing an electric motor as a driving means, including a housing for such motor, a casing secured to said housing, a cable reel rotatable about an horizontal axis housed in said casing, a friction disk secured to and rotatable with said reel, a rotatable disk frictionally engaging the first mentioned disk, the last mentioned disk being arranged in axial parallelity to and spaced from the drive shaft of the aforesaid motor, a lever designed for vertical movement pivotally suspended above the last mentioned disk and shaft, a rotatable disk carried by said lever and adapted when said lever is lowered to engage the second disk and said shaft simultaneously for the purpose of transmitting rotation from said shaft through the second and first mentioned disks to said reel.

1,921,289
APPARATUS FOR BURNING SULPHUR
Lowry Gillett, Syosset, N. Y., assignor to General Chemical Company, New York, N. Y., a Corporation of New York
Application February 10, 1927. Serial No. 167,344
2 Claims. (Cl. 23—278)



1. An apparatus for burning sulphur comprising a sublimer adapted to contain a body of molten sulphur, a combustion chamber connected to said sublimer, a main blower for supplying air under pressure to said combustion chamber, a booster blower feeding from the main blower for introducing air under the surface of the sulphur in the sublimer at a pressure greater than that at which air is supplied to the combustion chamber by the main blower, an electric circuit including a motor and starting box for said main blower, a similar circuit for said booster blower, and means controlled by said first-named circuit acting on cessation of power input to the main blower to stop the power input to the booster blower.

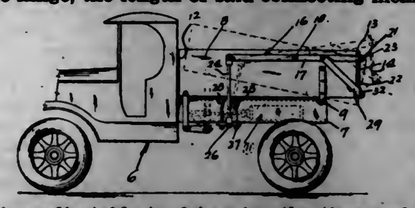
1,921,290
VEHICLE SIDE SIGNAL
Frances Ethel Gragg and Leonard B. Cohn, Los Angeles, Calif.
Application April 3, 1929. Serial No. 352,275
2 Claims. (Cl. 177—329)



1. A luminous signal for motor vehicles comprising a strip of light colored translucent vitric material having an elongated groove in its outer surface, a tubular lighting element substantially conforming to the shape of said strip and lying within said groove, and means connecting said lighting element into an electric circuit, said lighting element being directly visible from in front of said signal and said strip being adapted to conduct a portion of the light emitted by the back and sides of said lighting element and thereby illuminate the forward face of the strip to enhance the effulgence of light emitted by said signal.

1,921,291
DUMP BODY FOR TRUCKS AND THE LIKE
Harry R. Hanson, San Francisco, Calif.
Application June 23, 1930. Serial No. 463,165
1 Claim. (Cl. 298—23)

In combination with a dump body hinged on a chassis, and means to raise or lower the front end of the body around the hinge to dump its content to the rear of the body; of a gate to cover the rear end of the body; a lever on each side of the body, each lever being pivoted intermediate its ends, the rear end of each lever being attached to the adjacent edges of the gate; a connecting member on each side of the body having one end pivotally connected to the front end of the adjacent lever to hold said end of the lever as the front of the body is raised around the hinge, the length of said connecting member



being adjustable to determine the time and the limit of the gate opening relatively to tilting of the dump body, and a diagonal link extending from the lower end of each side of the gate to the respective levers; and means to removably attach the said diagonal link to said gate.

1,921,292
COMPOSITION AND METHOD OF MAKING AND USING THE SAME
Mortimer T. Harvey, East Orange, N. J.
No Drawing. Application November 28, 1928
Serial No. 322,575
7 Claims. (Cl. 134—26)

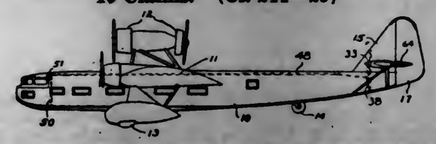
1. Composition of matter obtained by heating together cashew nut shell liquid, stearine pitch, and hexamethylenetetramine.

4. The method which comprises reacting cashew nut shell liquid and hexamethylenetetramine to an intermediate reaction product and arresting the reaction by keeping at a temperature not over about 140° F. until time to produce further reaction.

1,921,293
PRODUCT AND PROCESS OF REACTING CASHEW NUT SHELL LIQUID WITH PARAFORMALDEHYDE
Mortimer T. Harvey, East Orange, N. J., assignor to The Harvel Corporation, Newark, N. J., a Corporation of New Jersey
No Drawing. Application February 22, 1929
Serial No. 341,862
12 Claims. (Cl. 260—3)

1. The method of making a composition of matter which comprises reacting cashew nut shell liquid with paraformaldehyde.

1,921,294
AIRPLANE
Harold A. Hicks, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware
Application October 27, 1931. Serial No. 571,300
10 Claims. (Cl. 244—29)



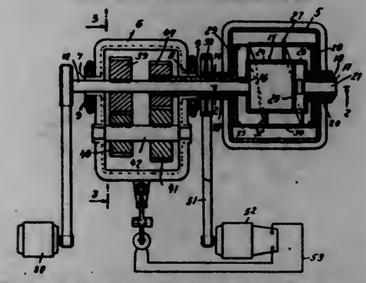
1. In an airplane construction, a fuselage having a rudder pivoted to the rear portion thereof, a pair of relatively heavy operating members pivotally connected to each side of said rudder substantially within the lines of its outer surface, said operating members extending forwardly into said fuselage, a rudder operating device extending from the pilot's compartment to the rear end of the fuselage, and a torque amplifying device within said fuselage operatively connecting said operating device and operating means, whereby the rudder may be effectively streamlined and still the operating device will be subject to only a fraction of the rudder torque.

1,921,295
INCANDESCENT LAMP GUARD
George B. Hume and Grover W. Walls, Kansas City, Mo.
Application March 21, 1932. Serial No. 600,206
3 Claims. (Cl. 240—102)



1. A guard comprising a hollow body portion open at one end, and a member for giving or preventing access to the interior of the guard at said open end thereof, said member comprising a series of substantially semi-circular elements each hinged to the guard for swinging movement in planes radially thereof and each partly overlapping the adjacent element at one side and partly underlapping the adjacent element at the opposite side and completely spaced apart laterally relative to any other element of said member.

1,921,296
FILTER
Andrew M. Harkness, Nyack, N. Y., assignor to General Chemical Company, New York, N. Y., a Corporation of New York
Application September 22, 1932
Serial No. 634,301
11 Claims. (Cl. 210—69)



1. In an apparatus having a pair of movable elements operating under conditions tending to develop friction between the two elements, the combination of means for driving each of said elements, one of said driving means including a bodily movable member, the means driving one of said elements being constructed and arranged to drive its associated element at a rate slower than the other element is driven by its driving means whereby friction developed between the two elements tends to move the two elements in unison, and means controlled by bodily movement of said member for preventing the transmission to the driving means of the more slowly driven element of at least some of the frictional clutching effect developed between the two elements as tend to transform the driving means of the more slowly driven element from a driving member to a driven member.

1,921,297
PROCESS OF MANUFACTURING ACTIVATED CARBON
Frederick E. Kern, St. Louis, Mo.
No Drawing. Application June 18, 1930
Serial No. 462,124
8 Claims. (Cl. 252—3)

1. The process of preparing activated carbon which comprises comminuting a vegetable substance, acidifying and cooking said comminuted material to destroy the cellular structure without substantial charring thereof, and activating said material by cooking it with phosphoric acid.

1,921,298
VALVE
James O. Lewis, Tulsa, Okla., assignor to D L P Valve Company, Tulsa, Okla., a Trust
Application July 15, 1927, Serial No. 205,946
Renewed January 13, 1932
19 Claims. (Cl. 137—75)

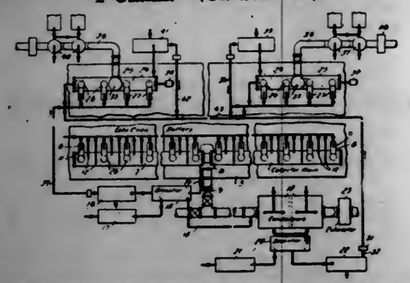


1. In combination with a flow line, a housing interposed in said line including a movable seat member and having a flow channel and oppositely related slots opening to said channel, separate bonnets removably mounted on said housing having slots registering with the housing slots, separate orifice plates mounted in respective bonnets and movable in said slots for selective location in said housing, and means for setting the movable seat member to seal a positioned orifice member in the housing.

1,921,299
CYANIDE AND METHOD OF CONTROLLING THE POROSITY THEREOF
Vartkes Migrdichian, Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine
No Drawing. Application March 12, 1929
Serial No. 346,501
6 Claims. (Cl. 23—79)

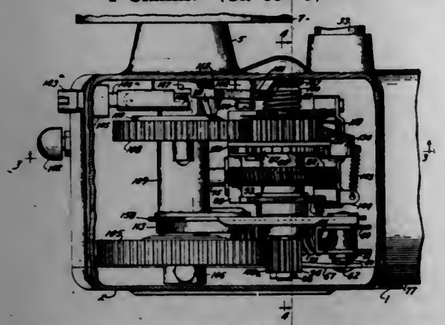
1. A dense crude calcium cyanide having a specific gravity greater than 1.7903.

1,921,300
DISTILLATION OF TAR
Stuart Parmelee Miller, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey
Application November 3, 1928. Serial No. 316,894
1 Claim. (Cl. 202—30)



The improved method of producing distillate oils and pitches from coal tar which comprises fractionally condensing the tar from hot coal distillation gases and thereby producing a plurality of tar fractions, including a heavy tar and a light tar fraction, subjecting the light tar to distillation to separate light oils therefrom and to produce a heavy tar or pitch, and combining such heavy tar or pitch with the heavy tar fraction and subjecting the same to distillation for the production of heavy distillate oils and pitch residues.

1,921,301
IRONING MACHINE
Edward C. Peter, Algonquin, and John A. Castricone, Elgin, Ill.; said Peter assignor to The American Ironing Machine Company, Algonquin, Ill., a Corporation of Illinois
Application March 28, 1931. Serial No. 525,996
4 Claims. (Cl. 68—9)



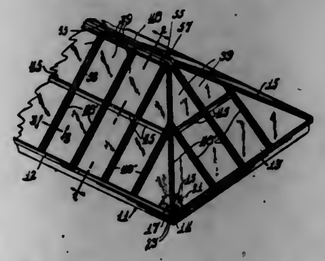
2. An ironing machine comprising a rotatably supported ironing roll, an ironing shoe movable into and out of operative relation to said roll, a pair of shafts rotatably mounted in laterally spaced parallel relation, a first one of said shafts being operatively connected to said roll for rotating the same, an eccentric rotatably mounted on said first shaft and operatively connected to said shoe for moving the shoe toward and away from the roll, a constantly driven gear rotatably mounted on the second one of said shafts, a geared connection between said gear and said eccentric including a manually engageable clutch on the axis of said second shaft, means operable automatically upon said clutch to stop the rotation of said eccentric when said ironing shoe reaches either of its extreme positions, a geared connection between said constantly driven gear and said first shaft for rotating said roll, said last mentioned connection including a clutch on the axis of said second shaft, and cam means actuated through rotation of said eccentric to operate said roll-controlling clutch and stop rotation of the roll when said shoe is moved away from the roll.

1,921,302
HEADER BOARD STAKE
Charles B. Polhemus, San Jose, Calif.
Application July 27, 1931. Serial No. 553,274
1 Claim. (Cl. 25—118)



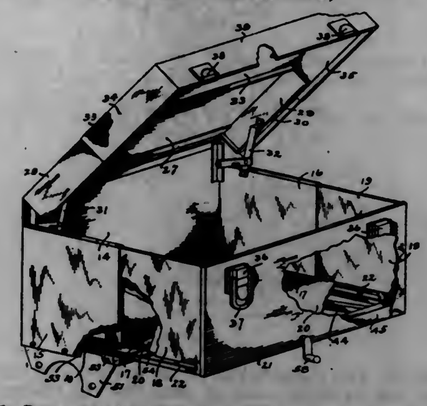
A header board stake comprising a sheet metal bar having a cross-sectional configuration presenting a flat base portion and symmetrically formed concavo-convex side portions, the entering end of the stake having the said side portions bevelled and having bulbous portions formed at the base of the bevelled portions.

1,921,303
SKYLIGHT
Charles Raschka, Wauwatosa, Wis., assignor to Super-Steel Products Company, Milwaukee, Wis.
Application December 7, 1931. Serial No. 579,366
12 Claims. (Cl. 108—16)



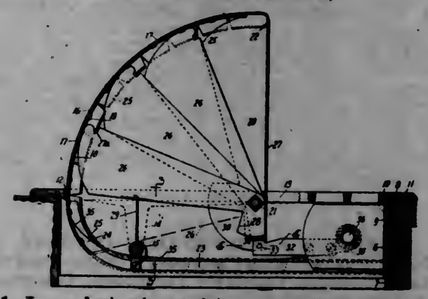
4. In a skylight structure, a frame consisting of substantially parallel side and end bars, a ridge bar, a fitting on each end of said ridge bar, a hip bar extending upwardly and inwardly from each corner of said frame toward the ridge bar, said hip bars connecting at their upper ends with the associated fitting on said ridge bar, and a connecting union of one piece in each corner of said frame to facilitate connection of the hip bars with said frame.

1,921,304
AUTOMOBILE EXTENSIBLE TRUNK
Robert E. Stevenson, Indianapolis, Ind.
Application March 17, 1930. Serial No. 436,344
16 Claims. (Cl. 224—29)



1. In an extensible trunk, a relatively fixed portion comprising a bottom, back and sides, a movable portion comprising a bottom, front, and ends, said sides and ends being adapted to move telescopically one past the other, and extensible supporting cantilevers oblique to each other carried by the fixed portion and attached to the movable portion to support the movable portion in extended positions.

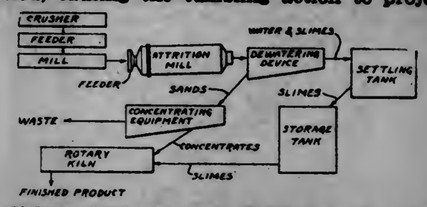
1,921,305
SHIELD FOR HOT AIR REGISTERS OR THE LIKE
William A. Wiesman, Dayton, Ohio, assignor of one-half to Ralph F. Behringer, Dayton, Ohio
Application April 27, 1931. Serial No. 533,011
20 Claims. (Cl. 98—108)



1. In a hot air register, a grille, a flexible shield mounted for movement into an extended position above said grille with its forward edge spaced therefrom and into a transverse position below and adjacent to said grille, and a guide engaging said shield to flex the same as it moves from one position to the other.

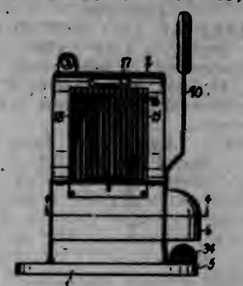
1,921,306
PROCESS FOR CONCENTRATING ORES AND OTHER MINERAL AGGREGATES
Truman H. Aldrich, Jr., Birmingham, Ala.
Application November 25, 1929
Serial No. 409,562
13 Claims. (Cl. 209—6)

1. The herein described step in the process of separating by attrition mineral components having different coefficients of wear, which consists in subjecting the mineral aggregate in the form of a pulp bath of small particles to a tumbling action, causing the tumbling action to project



particles with free flight beyond the axis of the tumbling motion, and so regulating the length of the free fall of the particles into the pulp bath to their weight as substantially to erode only the desired softer component.

1,921,307
GOLF BALL MARKING APPARATUS
Charles E. Broman, Sparta, and Walter H. Nowak, Grand Rapids, Mich.
Application September 3, 1931. Serial No. 560,974
28 Claims. (Cl. 101—39)

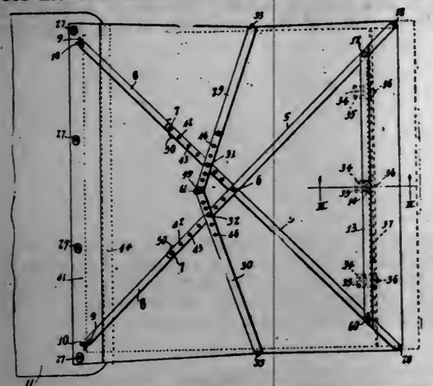


1. In a machine of the class described, the combination with a printing mechanism, of an operating handle therefor and means for connecting said handle to said mechanism comprising a rockshaft, an arm carried by said rockshaft, a spring urging said handle to an initial position, a sector connected to said handle, a sector connected to said mechanism, said handle sector having a latch securing recess, and a latch pivoted to said mechanism sector gravitally urged into engagement with said recess and having a lug engageable by said arm when said mechanism sector is in an initial position, said latch being held out of engagement with said handle sector recess when so engaged, whereby said handle and sector are free to turn, but upon the rocking of said rockshaft said arm releasing said latch which is moved by gravity into engagement with said recess whereby the mechanism is connected to the handle through said latch and sectors.

1,921,308
RUMBLE SEAT TOP
Clinton C. Butefish, Los Angeles, Calif.
Application July 27, 1931. Serial No. 553,262
6 Claims. (Cl. 296—99)

1. A rumble seat top for attachment between the usual top of an automobile and the back of the rumble seat thereof, comprising a pair of crossed frame members pivotally secured together at their points of crossing, outwardly extending slots in the forward ends of said members adapted to engage with pin members se-

cured to the usual top of the automobile, a rear cross member removably attached to the afore-



mentioned frame members adjacent their rear ends, and means for supporting said last mentioned member from the top of a rumble seat.

1,921,309

FILTER MATERIAL AND METHOD OF PRODUCING THE SAME

Earle D. Crammond, Washington, D. C., and William A. Hughes, Morristown, N. J., assignors to The Harvel Corporation, a Corporation of New Jersey

No Drawing. Application June 3, 1930 Serial No. 459,107

2 Claims. (Cl. 210—204)

1. A surface contact filter comprising sheet material having a coating thereon of a modified cashew nut shell oil varnish, the surface of said sheet material being minutely pubescent and said varnish forming minute denticles at the cilia of said surface.

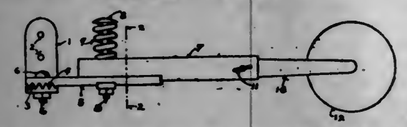
1,921,310

REAR VIEW MIRROR FOR TRUCKS

Fred W. Crisman, Richland Center, Wis.

Application October 23, 1931. Serial No. 570,572

3 Claims. (Cl. 248—1)



2. In an article support, a bracket, a saddle member adjustably secured to the bracket, a tubular supporting arm seated in the saddle member, means pivotally connecting said saddle member and tubular supporting arm together, resilient means connected with said pivotal means and engaging the tubular supporting arm to hold it in its seat, and means on said tubular arm adapted to engage and hold an article to be supported.

1,921,311

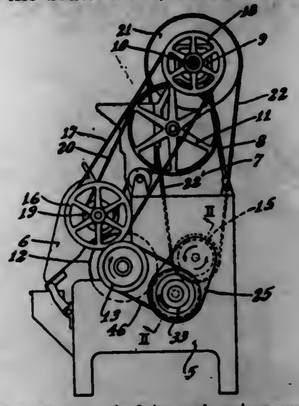
LINTER GIN DRIVE

Frank E. Deems, Birmingham, Ala., assignor to Continental Gin Company, a Corporation of Delaware

Application May 11, 1931. Serial No. 536,529

9 Claims. (Cl. 19—55)

1. In a drive for linter gins having a brush shaft and a removable saw cylinder with pulley, comprising a drive means for the brush shaft, and a floating drive from the brush shaft to the saw cylinder pulley comprising a driving element fast on the brush shaft, means reversely driven



thereby and mounted to swing toward and from the saw cylinder, and an open belt to transmit motion from said swinging means to the saw cylinder.

1,921,312

THERMOSTAT

William Eichholz, Cicero, and Richard W. Leutwiler, Chicago, Ill., assignors to Illinois Engineering Company, Chicago, Ill., a Corporation of Illinois

Application March 10, 1932. Serial No. 597,990

5 Claims. (Cl. 297—8)



4. A thermostat of the expansion cell type comprising a pair of diaphragms centrally supported for movement toward and away from each other, the peripheral portion of one diaphragm being bent into an open channel, the open face of which channel is in a plane parallel with the plane of the diaphragm, the periphery of the other diaphragm being bent to rest in said open channel, and said channel being filled with solder.

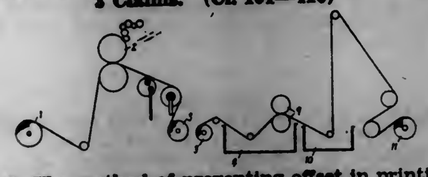
1,921,313

METHOD OF PREVENTING OFFSETS

Edward C. Francoise, Parchment, Mich., assignor to Kalamazoo Vegetable Parchment Company, Kalamazoo, Mich.

Original application July 29, 1929, Serial No. 382,046. Divided and this application March 16, 1931. Serial No. 522,989

3 Claims. (Cl. 101—416)



3. The method of preventing offset in printing consisting of printing a web of paper, applying a substantially continuous coating of liquid paraffin exclusively to the reverse side of the web, and next chilling before substantial penetration

of the paper by the paraffin, and rolling the web of paper upon itself whereby the printed surface is brought into contact with the paraffined surface.

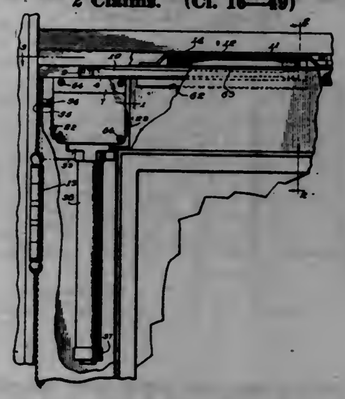
1,921,314

DOOR CLOSER AND CHECK

Forrest C. Garrison, Evanston, Ill., assignor to The Oscar C. Rixson Co., Chicago, Ill, a Corporation of Illinois

Application December 24, 1931. Serial No. 583,025

2 Claims. (Cl. 16—49)



1. A door closer and check comprising a casing formed to provide a cylinder the axis of which extends horizontally, a piston within said cylinder, said piston having a central longitudinally extending opening and rack teeth formed on one side of said opening, a spindle extending vertically through the opening in the piston and having pinion teeth for engaging the rack teeth, a spring barrel removably attached to the bottom of said casing, a coil spring within said spring barrel, and a shaft extending through said spring and connected therewith to wind the same, said shaft being co-extensive with said spindle and arranged to be coupled with the spindle upon attachment of the spring barrel to the casing.

2. The combination with a door casing of a door having a hinged connection with the casing, a door check concealed within the door and provided with an operating arm fitting a longitudinal recess in the upper edge of the door, said casing having a guideway in the lower surface of its lintel which is above the door when the door is in its closed position, a roller carried at the outer end of said operating arm and projecting upwardly into said guideway.

1,921,315

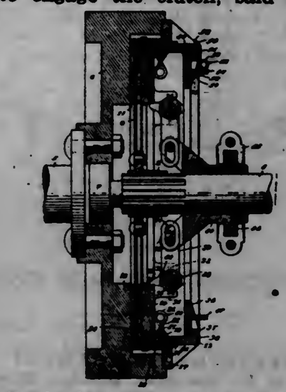
CLUTCH

William F. Hughes, Rockford, Ill., assignor to Rockford Drilling Machine Co., Rockford, Ill., a Corporation of Illinois

Application September 21, 1931 Serial No. 564,099

13 Claims. (Cl. 192—68)

1. In a friction clutch, the combination with a flywheel constituting the driving element and a clutch disc constituting the driven element, of a back plate turning with the flywheel, a pressure plate, interfitting parts on the back plate and pressure plate for positively turning the pressure plate with the back plate and flywheel and guiding the pressure plate for movement toward and away from the flywheel, spring means at the interfitting parts of said plates normally urging the pressure plate toward the back plate away from the flywheel, and means for moving the pressure plate away from the back plate against the action of said spring means to engage the clutch, said interfitting



parts of the back plate and pressure plate being constructed to limit the movement of the pressure plate under the action of the spring means so that the pressure plate moves a predetermined distance away from the flywheel and is uniformly spaced at all points circumferentially thereof with relation to the clutch disc.

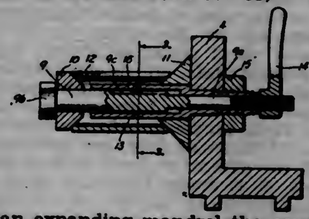
1,921,316

EXPANDING MANDREL

Herman T. Mattern and Carl Lindstrom, Kansas City, Mo., assignors to Hempy-Cooper Manufacturing Company, Kansas City, Mo., a Corporation of Missouri

Application January 20, 1930. Serial No. 422,036

6 Claims. (Cl. 77—63)



1. In an expanding mandrel the combination comprising; a support, a sleeve mounted on said support, an annular cam supported by said sleeve and abutting against said support, a rod telescoped within said sleeve, an enlargement at one end of said rod, an annular cam supported by said rod and seated against said enlargement, expandible means mounted between said cams and means for imparting a longitudinal movement to said rod whereby said expandible means is expanded by said cams.

1,921,317

CIGARETTE MAKING MACHINERY

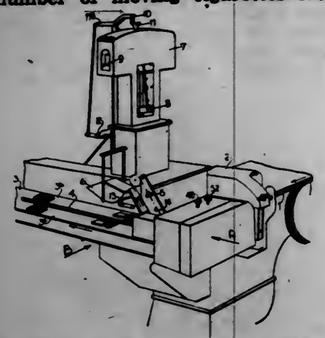
Walter Everett Molins and Cyril Best, Deptford, London, England

Application May 27, 1931, Serial No. 540,460, and in Great Britain April 13, 1931

17 Claims. (Cl. 131—39)

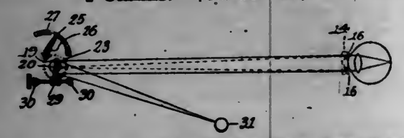
1. In apparatus for use on cigarette making machines, the combination with weighing apparatus, of means for moving cigarettes in the direction of the length thereof in a predetermined

path, and means for withdrawing a predetermined number of moving cigarettes from the



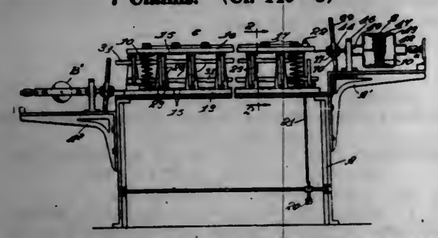
path and delivering the same to the weighing apparatus.

1,921,318
REFRACTION INSTRUMENT
William R. Morrison, Billings, Mont.
Application March 21, 1932. Serial No. 600,307
4 Claims. (Cl. 88—20)



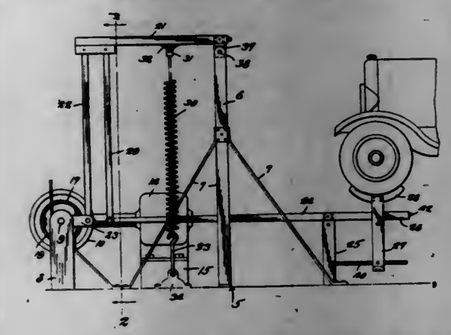
1. In an instrument of the class described, a rotatably mounted sight tube, a mirror at the observer's end of the sight tube and having a sight hole, means for mounting the mirror for lateral tilting movement, to produce a shadow, spaced pairs of parallel cross wires carried by the distal end of the sight tube and forming a datum to which the movement of the shadow is referred, as the shadow makes its lateral excursion, responsive to the tilting of the mirror, the pairs of wires being so placed that their image is superimposed on the pupilary area, the pairs of wires permitting an accurate adjustment of the shadow and affording an opportunity for obtaining a true alinement of the meridian upon a rotation of the sight tube, and mechanism for indicating the extent of the lateral excursion of the shadow as it moves from one cross wire to the other.

1,921,319
MACHINE FOR ASSEMBLING SPRINGS
William F. Murnane, Chicago, and Roland D. De Lamar, Berwyn, Ill., assignors to S. Karpen & Bros., Chicago, Ill., a Corporation of West Virginia
Application January 11, 1932. Serial No. 586,020
7 Claims. (Cl. 140—3)



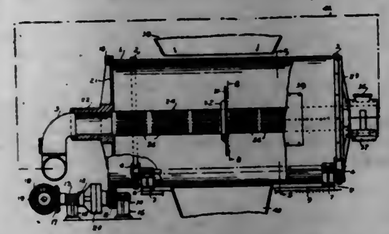
1. In apparatus for assembling springs, means for supporting springs with portions in contiguous relation, guide means about said contiguous portions, a hollow feeding member adapted to receive preformed helical connector wire, gripping means carried by said member for releasably engaging said helical wire, and means for rotating said feeding member.

1,921,320
GREASE RACK
Stanley D. Palmer, Joplin, Mo.
Application August 3, 1931. Serial No. 554,933
3 Claims. (Cl. 72—51)



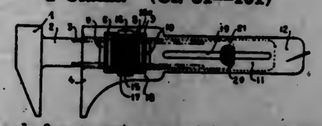
1. A testing machine comprising supporting posts, supporting bars pivotally mounted at the upper ends of the supporting posts at points intermediate the ends of the supporting bars, wheel supports mounted on the supporting bars for supporting the wheels at one end of a vehicle under test, and means for rocking the supporting bars simultaneously or independently of each other.

1,921,321
DRIER AND POLISHER FOR WOOD TURNINGS
Samuel R. Penney, Jr., Mechanic Falls, Maine, assignor to J. W. Penney & Sons Co., Mechanic Falls, Maine, a Corporation of Maine
Application February 14, 1931. Serial No. 515,809
1 Claim. (Cl. 34—5)



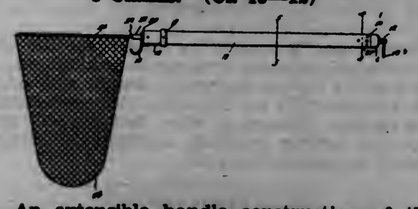
Drying apparatus comprising an imperforate rotary drum having a head fixed to one end thereof and having an air conduit at the center of said head, means for rotating said drum, a slotted pipe supported within said drum by the ends thereof and coaxial therewith, means for forcing air through said conduit into said pipe, a baffle plate adjustable in said pipe for deflecting air through the slots thereof, a baffle disc adjustable along the outside of said pipe and extending perpendicularly thereto, means for locking said plate in adjusted position in said pipe, and means for locking said disk in adjusted position on said pipe.

1,921,322
WRENCH
Pierre Porte, Vireflay, France
Application August 18, 1930, Serial No. 476,172, and in France August 20, 1929
1 Claim. (Cl. 81—161)



A wrench for a nut comprising a jaw having a shank presenting two opposed flat sides and two opposed convex surfaces connecting the flat sides, and provided with screw threads, a jaw having a frame which slides on the said shaft and is provided with a transverse opening, a recess in one longitudinal side of the opening forming a notch and a groove extending across the opposite longitudinal side of said opening, a cylindrical slider arranged in said opening and presenting threads interrupted to cooperate with the threads of the said shank when the slider is in one position, and to disengage the threads of the shank when the slider is in another position, said slider having a spur on its circumference movable across the groove of the said side of the opening, and engageable in the notch of the frame to stop rotation of the slider, so that the slider may execute an almost complete rotation, springs exerting from each end of the slider a pressure such that if the locking is not affected during the first partial rotation it may be completed during the second partial rotation, and so that engagement of the slider in the threads of the said shank may be assured by a light compression of the springs in the event that the thread of the said slider should not immediately engage those of the shank.

1,921,323
EXTENSIBLE HANDLE
Frank Purdon, Herkimer, N. Y.
Application April 7, 1932. Serial No. 603,868
3 Claims. (Cl. 42—12)

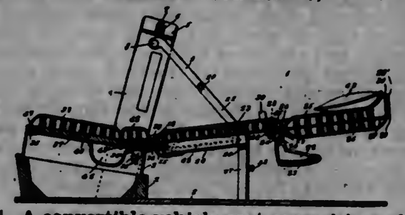


1. An extensible handle construction of the class described comprising a relatively stationary outer tube provided on its interior at one end with a stop clip, a socketed plug fitted into the opposite end of said tube, a pair of connecting pins passing through the tube and a socketed portion of the plug, a bolt mounted centrally in the plug and having its inner end portion projecting into the adjacent end of the outer tube, a relatively slidable inner tube mounted for telescopic sliding in said outer tube and having a stop clip at one end for cooperation with the first-named stop clip, a socket coupling member secured rigidly in the projectible end of said inner tube and constructed to accommodate a detachable net, an elongated expansion projection spring confined in said inner tube, having one end cooperating with said bolt, having its opposite end bearing against said coupling member, and a retaining latch carried by the outer end of the outer tube and cooperating with the adjacent end of the inner tube to hold said inner tube retracted in the outer tube against the tension of said spring.

1,921,324
WOOD PRESERVING MEDIA
Curt Räth, Opladen near Cologne, and Franz Heckmanns, Leverkusen near Cologne, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York
No Drawing. Application April 16, 1930, Serial No. 444,865, and in Germany April 23, 1929
4 Claims. (Cl. 134—78.6)

1. As a new composition of matter an organic nitrophenol compound intimately mixed with an organic acid amide, being a valuable agent for preserving wood.

1,921,325
SLEEPING COMPARTMENT FOR AUTOMOBILES
Mack Richardson, Homestead, Pa.
Application April 3, 1931. Serial No. 527,582
3 Claims. (Cl. 155—7)



1. A convertible vehicle seat comprising a base, rearwardly inclined uprights rising from said base, substantially U-shaped brackets extending inwardly from the upper ends of said uprights, a frame secured to and rising from the base, a pair of intermediate cushion sections hingedly connected to the frame, links connecting the intermediate sections with the uprights, brackets secured to the outer sides of the intermediate sections and receivable between the arms of the U-shape brackets, latching means carried by the intermediate sections, detachable means extending through companion brackets and cooperating with the latching means to hold the intermediate sections in an upright position, legs pivotally secured to the confronting faces of the intermediate sections to cooperate with the links in supporting the device in reclining position, auxiliary cushion sections pivotally secured adjacent to the ends of the intermediate sections and foldable upon the latter, head rests hingedly secured to the outer ends of the intermediate sections and foldable on the auxiliary sections, a seat cushion section detachably secured to the frame, said intermediate sections being spaced from the seat section, filler cushions hingedly secured to the seat section and arranged for disposal in the space between the seat section and the intermediate sections, and means secured to the frame and having a pocket to receive the filler cushions.

1,921,326
PROCESS OF MODIFYING VINYL RESINS
Foster Robertson, Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation, a Corporation of New York
No Drawing. Application September 11, 1930 Serial No. 481,239
4 Claims. (Cl. 260—2)

1. Process of diminishing the fusibility and solubility of a polymerized vinyl ester resin which

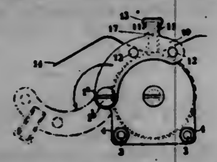
comprises precipitating the resin from solution and subjecting it at the moment of precipitation to the action of a quantity of a water-soluble basic compound insufficient to cause appreciable hydrolysis of said resin under the conditions of precipitation.

1,921,327

CRYPTOGRAPHIC PRINTING APPARATUS

Francois Schimmel, Aulnay-Sous-Bois, and Eugène Auguste Bidault, Paris, France

Application August 26, 1930, Serial No. 477,902, and in France September 4, 1929
3 Claims. (Cl. 197—4)



1. Apparatus for coding and decoding messages, comprising a shaft, a series of discs mounted on the said shaft, these discs being grouped in pairs, a disc of each pair being used for plain language and the other disc for cipher language, signs on the periphery of the said discs, a coupling interposed between the two discs of each pair for permitting change of the sign combinations on the discs, means for stopping the pairs of discs, partitions between the said pairs of discs for separating and insulating them and constituting bearings for the said stop means.

1,921,328

COMB FOR THE HAIR

Martin Shaw, Fenham Carr, Lancaster, England

Application September 12, 1932, Serial No. 632,781, and in Great Britain November 20, 1931
2 Claims. (Cl. 132—11)



1. In a comb, the combination of a body, a series of relatively closely spaced teeth extending from the body at substantially a right angle thereto, and a relatively broad V-shaped tooth extending from the body in a direction with said first-mentioned teeth and having its major axis extending at a right angle to the longitudinal axis of the body to provide a reversely presented relatively wide V-shaped gap between the V-shaped tooth and an adjacent one of said closely spaced right angular teeth, said gap being defined at one side by an oblique edge of said V-shaped tooth and at its opposite side by one edge of said adjacent right angular tooth and being adapted to freely receive hair deflected laterally by said V-shaped tooth as said V-shaped tooth parts the hair.

1,921,329

REVERSIBLE TOOTH SPROCKET WHEEL AND METHOD OF MAKING SAME

Lewis E. Smoot, Washington, D. C.

Application May 8, 1929. Serial No. 361,341
11 Claims. (Cl. 74—31)

1. A sprocket wheel including a rim provided with tooth openings, tooth pockets carried by the wheel inwardly of the rim, teeth positioned within the pockets and projecting through the openings in the rim, the tooth openings and pockets being dimensioned to provide spaces between the



adjacent faces of the tooth, rim, and pockets, and packing material filling said spaces.

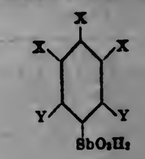
1,921,330

ACYLAMINO BENZENE STIBONIC ACIDS

Karl Streitwolf, Frankfort-on-the-Main, Alfred Fehrle, Bad Soden-on-Taunus, and Walter Herrmann and Paul Fritzsche, Frankfort-on-the-Main, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York

No Drawing. Application May 22, 1930, Serial No. 454,828, and in Germany June 15, 1929
7 Claims. (Cl. 260—11)

1. The compounds of the following formula:



wherein one Y stands for hydrogen, the other Y for alkyl, halogen, hydroxy or oxalkyl, and one of the X's for an acylamino-group, at least one of the other X's for hydrogen, the remaining X for oxalkyl, halogen or alkyl, being nearly white powders soluble in alkali and having therapeutically valuable properties.

1,921,331

RIM FOR TIRES

Hugh B. Townsley, Spokane, Wash.

Application September 23, 1931
Serial No. 564,629
3 Claims. (Cl. 152—20)



1. A rim for pneumatic tires comprising a base portion with side flanges at the marginal portions thereof, said base portion being provided with a circumferentially arranged groove, a safety stop adjacent said groove at one side of the base portion, and the other side of said base portion being relatively wide and having an opening therein to receive the valve stem of a tube, a counterweight diametrically opposite said valve stem and opening on said base portion of the rim, said counterweight serving to balance the weight of said valve stem, said safety stop, said valve stem and said counterweight serving to prevent either of the bead portions of the tire from entering said groove in the event of accidental deflation of the tire.

1,921,332

ZIGZAG FOLDING MAP

Else Sanwald, Pasing, near Munich, Germany

Application July 15, 1932, Serial No. 622,714, and in Germany January 9, 1928
2 Claims. (Cl. 283—35)



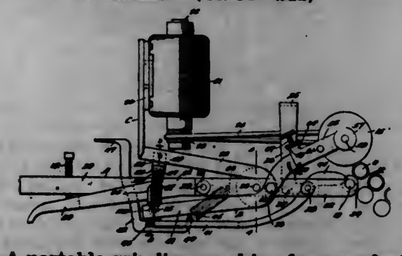
1. The combination with a map sheet for use with an index having the positions of localities on the map sheet indicated by vertical and horizontal coordinate indices, said map sheet having a map on one side thereof provided with an index extending vertically at each side edge of the map for the horizontal coordinates, said map sheet being folded along its middle horizontal line to cause the upper and lower back portions to lie against each other, the horizontally folded map sheet being folded on spaced vertical lines alternately in one direction and the other in zigzag arrangement; of independent cover sheets each attached to a respective side edge of the map sheet and free from each other, each of said cover sheets having on its exposed outer face at one side edge a vertical row of indicia corresponding to the said coordinate indicia of the upper half of the map sheet and having at its other side edge a vertical row of indicia corresponding to the said coordinate indicia of the lower half of the map sheet, the rows of indicia on each back being inverted in respect to each other.

1,921,333

GRINDING MACHINE

Lawrence B. Stogner, Hartsville, S. C., assignor to Sonoco Products Company, Hartsville, S. C., a Corporation of South Carolina

Application June 3, 1932. Serial No. 615,236
10 Claims. (Cl. 51—241)



5. A portable grinding machine for resurfacing the top drawing rolls of spinning frames comprising, in combination, a main frame, a rearwardly extending handle for said main frame, a grinding tool on said main frame, and a manually operable pincer-like clamp adapted to seize the necks of one of the bottom rolls of the spinning frame for supporting the machine in grinding position.

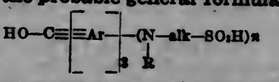
1,921,334

TRIARYLMETHANE DYESTUFF

Ottmar Wahl, Leverkusen-I. G. Werk, Werner Müller, Cologne-on-the-Rhine, Adolf Kohn, Leverkusen-I. G. Werk, and Ernst Teupel, Leverkusen-Wiesdorf, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application August 6, 1932, Serial No. 627,898, and in Germany September 12, 1931
7 Claims. (Cl. 260—68)

1. Triarylmethane dyestuffs having in the carbinol form the probable general formula:



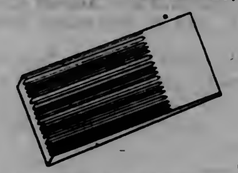
wherein "Ar" stands for a radical of the benzene or naphthalene series, R stands for hydrogen, alkyl, aryl or aralkyl, "alk" stands for an alkylene group and "n" stands for one of the numbers one to three, being in form of their alkali metal salts dark metallic lustrous powders, dyeing animal fibers generally reddish-violet to blue to green shades.

1,921,335

PROCESS FOR THE SURFACE FINISHING OF LUMBER AND SHINGLES

Hubert V. Whittall, Vancouver, British Columbia, Canada, assignor to Hunting-Merritt Lumber Co. Ltd., Vancouver, British Columbia, Canada

Application October 27, 1931. Serial No. 571,452
2 Claims. (Cl. 41—17)



1. A new process for the surface finishing of lumber and shingles which consists of coating the surface grain of the wood and moulding the longitudinal fibres of the wood into a series of spaced apart longitudinal corrugations.

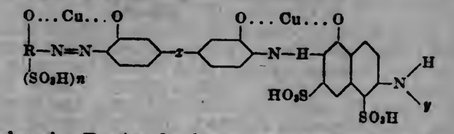
1,921,336

COPPER-CONTAINING AZODYESTUFF

Karl Wiedemann, Leverkusen-I. G. Werk, and Heinrich Clingestein, Cologne-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application December 30, 1931, Serial No. 584,016, and in Germany January 9, 1931
5 Claims. (Cl. 260—12)

1. Copper-containing azodystuffs of the probable general formula:



wherein R stands for a naphthalene nucleus

which may be substituted by an amino group or an acylamino group, the —O . . . Cu . . . O-group being attached to R in o-position to the azo group, —*x*— stands for a carbon-carbon linkage or for a urea bridge, *y* stands for a hydrogen atom or for an acyl group and "*n*" stands for one of the numbers 1 and 2, being in the free state generally dark metallic, lustrous powders, soluble in water in form of their alkali metal salts and dyeing silk and the cellulosic fibre violet to blue shades of excellent fastness to light.

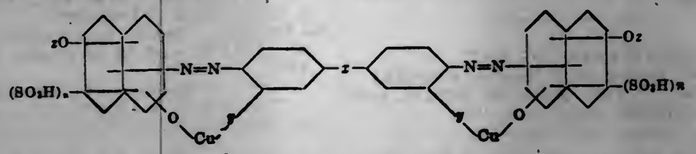
1,921,337
COPPER-CONTAINING AZODYESTUFF

Karl Wiedemann, Leverkusen-I. G. Werk, and Heinrich Clingestein, Cologne-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application August 5, 1932, Serial No. 627,672, and in Germany September 21, 1931

3 Claims. (Cl. 260—12)

1. As new products copper-containing azodyestuffs of the probable general formula:



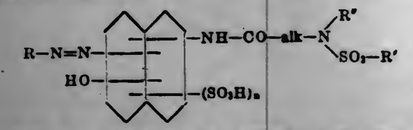
wherein —*x*— stands for a carbon-carbon-linkage, for a urea or thiourea-bridge, *y* stands for an oxygen atom or for the group —COO— which is attached with the carbon atom to the benzene nucleus, z stands for hydrogen or an alkyl group and "*n*" stands for one of the numbers one and two, the —*y*—Cu—O chain being attached to the naphthalene nucleus in o-position to the azo group, being in form of their alkali metal salts generally dark powders, dyeing cotton generally violet to blue shades of excellent fastness to light.

1,921,338
AZODYESTUFF

Paul Zervas, Cologne-Mulheim, and Heinrich Clingestein, Cologne-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application August 6, 1932, Serial No. 627,810, and in Germany September 10, 1931

1. As new products azodyestuffs of the probable general formula:



wherein R stands for a radical of the benzene series, R′ stands for alkyl, aralkyl or aryl, R″ stands for hydrogen, alkyl, aralkyl or aryl, "alk" stands for an alkylene group, "*n*" stands for one of the numbers one and two, the azo bridge being attached to the naphthalene nucleus in o-position to the hydroxy group, being in form of their alkali metal salts generally dark red powders, dyeing wool generally red shades of good fastness to fulling and light.

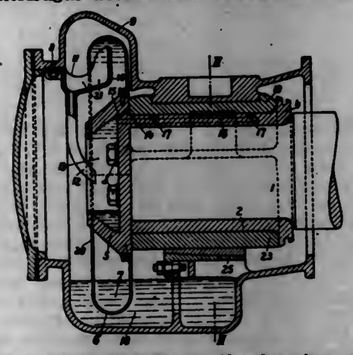
1,921,339
AXLE BEARING

Victor Alexander Bary, Hendon, London, England

Application July 26, 1932, Serial No. 624,665, and in Germany July 31, 1931

28 Claims. (Cl. 308—86)

1. In an axle journal bearing a journal, bearing means therefor, a casing enclosing said journal and bearing means, said casing including a lubricant containing sump, rotary means for withdrawing lubricant from said sump and forming the withdrawn lubricant into an annular rotating body, means for abstracting lubricant from said annular rotating body of lubricant, means for subjecting the lubricant so abstracted to centrifugal action and means for delivering



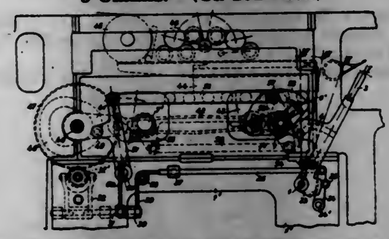
such lubricant directly to the bearing surfaces under the pressure set up by such centrifugal action.

1,921,340
GUIDING DEVICE FOR SHEET WORKING PRINTING PRESSES

Nikolaus Becker, Durlach near Karlsruhe, Germany, assignor to Schnellpressenfabrik Aktiengesellschaft Heidelberg, Heidelberg, Germany

Application February 24, 1931, Serial No. 517,946, and in Germany February 25, 1930

5 Claims. (Cl. 101—272)



1. Control system for a cylinder printing press of the type having an impression cylinder, a reciprocating type bed, means for automatically feeding the sheets to be printed, and means for driving the press, said system comprising in combination, a device for starting and stopping said sheet feeding means, a device for starting and shutting off the printing operation, and means for starting and stopping said driving means of the press, said devices being connected to said means for starting and stopping said driving means of the press and so arranged that upon starting or stopping the press the said individual devices are respectively started or stopped, in succession in a predetermined sequence.

1,921,341
ATTACHMENT FOR ROCK DRILL TOOLS

Adolf E. Bundsen, Palo Alto, Calif., assignor to Richard T. Bundsen, San Francisco, Calif.

Application December 22, 1930. Serial No. 504,151

1 Claim. (Cl. 121—32)



An attachment for a drill tool comprising an annular unit sleeve split lengthwise on one side thereof and having serrations on its inner surface and a conical-shaped outer surface, and a threaded collar mounted on the sleeve adapted for constricting the latter, the inner surface of the sleeve being non-circular and defined by a plurality of surfaces arcuate in plan and flaring outwardly toward the junction of the surfaces, the serrations being formed in the several surfaces.

1,921,342
EGG BEATER

Porter K. Bushnell, Berkeley, Calif.

Application December 16, 1931. Serial No. 581,492

3 Claims. (Cl. 259—131)



1. In an egg beater, a U-shaped beating element having its shanks secured together, and a recess in its U-shaped end, a second U-shaped beating element having its shanks hinged to the shank ends of the first element and in right angle relation thereto and having a projection in its U-shaped end removably receivable in the recess.

1,921,343
THERAPEUTIC APPLIANCE

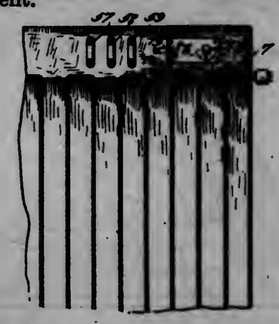
John D. Burkholder, Harrisonburg, Va., assignor to Therm-A-Mede, Inc., Orange, N. J., a Corporation of New Jersey

Application April 18, 1927, Serial No. 184,697

Renewed October 12, 1932

4 Claims. (Cl. 219—46)

1. A therapeutic appliance including a woven element made up of fabric threads and a composite thread including current conducting wires, the fabric threads being of greater diameter than the composite thread to hold the latter inwardly of the respective surfaces of the element to prevent short-circuiting the wires in the folding of the element.



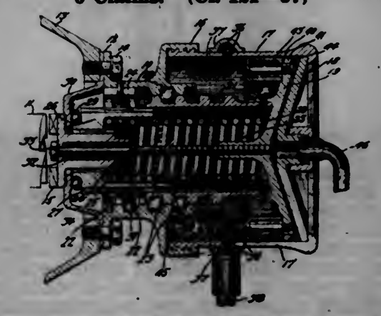
3. In a therapeutic appliance, an electrically heated element, an electro-magnetic switch for controlling the energization and deenergization of the element, a manually operable member for energizing the electro-magnetic switch, and means whereby said member may be secured in that position normally serving to energize the electro-magnetic switch, said member when so secured being utilized to energize the electrically heated element independently of the electro-magnetic switch.

1,921,344
ENGINE STARTER

Roland Chilton, Keyport, N. J., assignor, by mesne assignments, to Eclipse Machine Company, Elmira Heights, N. Y., a Corporation of New York

Application August 27, 1928. Serial No. 302,296

6 Claims. (Cl. 121—37)



1. In an engine starter the combination with a piston adapted for axial advance, helical means associated with the piston to produce rotation thereof from said advance, an engine engaging member rotatable with the piston, and means for moving said engine engaging member longitudinally but independently of said piston, said last named means and said piston being disposed so as to be simultaneously subjected to the pressure of an actuating fluid.

1,921,345
GAUGE FOR COLD HEADERS AND THE LIKE

William L. Clouse, Tiffin, Ohio, assignor to The National Machinery Company, Tiffin, Ohio

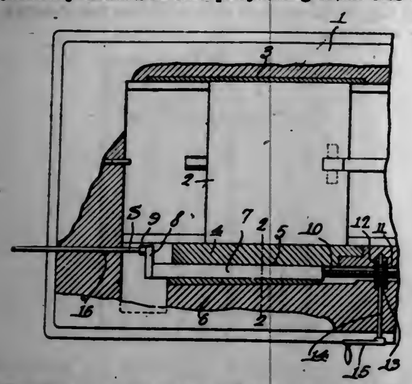
Application November 10, 1930

Serial No. 494,789

7 Claims. (Cl. 10—11)

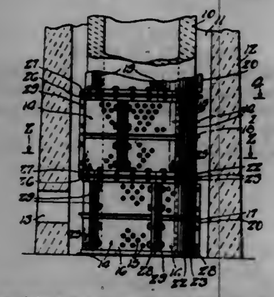
1. In a metal working machine of the class described a heading slide, a liner therefor, a bar

adjustably seated in and projecting from one end



of the liner, and a gauge head carried by the projecting portion of the bar.

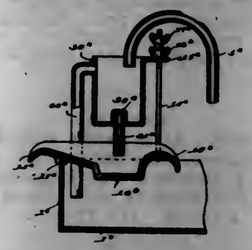
1,921,346
PERFORATED RETAINER PLATE CONSTRUCTION FOR FIRE BRICK WALLS
Martin J. Conroy, Chicago, Ill.
Application October 10, 1930. Serial No. 487,821
1 Claim. (Cl. 72—101)



The combination with a shaft including an outer wall and an inner wall, with an air space between them, of means for preserving the inner wall and comprising a plurality of plates to contact the same, each plate including a body having heat outlet perforations therein, a reinforced flanged strip secured to the body and across the same, substantially L-shaped strips secured to the side edges of the body and the first mentioned strip respectively, and including outstanding flanges provided with openings, substantially L-shaped members secured to the upper and lower edges of the body and including outstanding flanges provided with openings and means for securing the plates together one above the other and in edge to edge relation and including means passing through the openings in the cooperating flanges of the L-shaped strips and the cooperating flanges of the L-shaped members, and said plates having hand openings to facilitate the application of the securing means to the flanges of the L-shaped members.

1,921,347
LIQUID FEEDER
Harry G. Coulson, Wallace, Idaho
Application May 23, 1930. Serial No. 455,120
3 Claims. (Cl. 137—166)

1. A feed cup for a liquid feeder comprising a body portion having oppositely extending discharge spouts, means on one of said spouts to mount said cup for tilting movement, and means



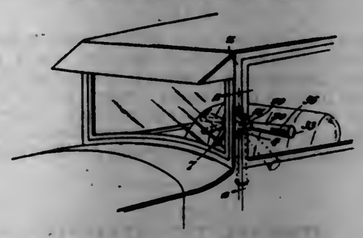
engaged with the other spout for adjusting the cup to vary liquid fed therefrom.

1,921,348
DISH
Ernest E. Cullen, San Diego, Calif.
Application August 25, 1931. Serial No. 559,161
2 Claims. (Cl. 65—15)



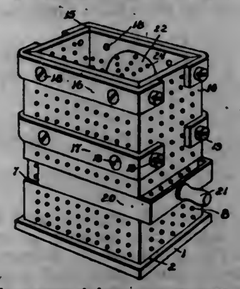
1. A bowl-shaped receptacle having a plurality of fixed integral upwardly directed elongated wedge-shaped spurs surrounding the middle portion of its bottom, said spurs positioned with their longitudinal axes substantially parallel with the axis of said receptacle.

1,921,349
SEMAPHORE
Russell S. Cunard, Everett, Pa.
Application February 10, 1932. Serial No. 592,157
2 Claims. (Cl. 116—54)



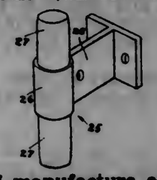
1. In a signal of the class described, a pivoted hollow signal arm tapering from its outer end and provided with slots in its sides adjacent its outer free end, a lamp holder fitted within the outer end of the signal arm and frictionally held therein and provided with display slots in its sides registering with the first mentioned slots and longitudinally extending slits at opposite sides of said slots, and sheet lenses passing over the slots in the lamp holder and having their edge portions engaged in the slits.

1,921,350
FLASK
Ira R. Custer, El Paso, Tex.
Application November 16, 1931
Serial No. 575,394
9 Claims. (Cl. 22—97)



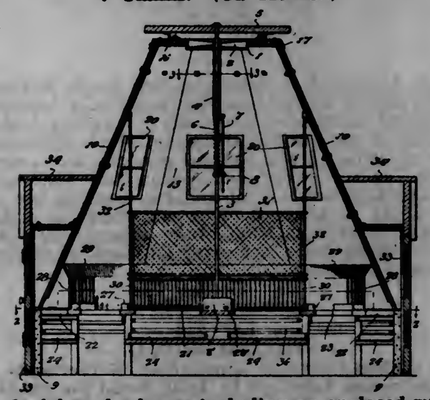
1. A flask comprising an upper and a lower section telescopically connected together and having foraminous walls.

1,921,351
CONCRETE PLACING EQUIPMENT
Mark C. De Wolfe, Oakland, Calif.
Application June 16, 1930. Serial No. 461,498
2 Claims. (Cl. 187—95)



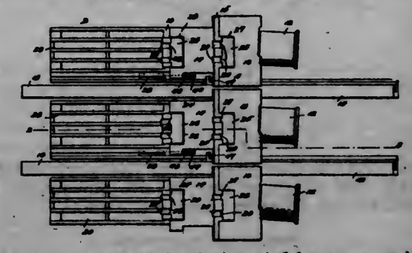
1. An article of manufacture comprising two cylindrical members connected to each other by an integral cross piece, each member having two integral cylindrical end portions of less diameter than the members the end portions having smooth surfaces throughout their lengths.

1,921,352
BROODER HOUSE
Ray Ferguson, Escatawpa, Miss.
Application July 25, 1930. Serial No. 470,736
7 Claims. (Cl. 119—31)



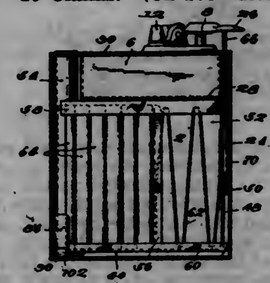
1. A brooder house including an enclosed runway for the chicks, and a passageway within the runway, the latter having a movable section, and a doorway in connection with said passageway and in line with the movable section of the runway.

1,921,353
COOLING BED
Gustaf L. Fisk, Pittsburgh, Pa., assignor to Mesta Machine Company, Pittsburgh, Pa., a Corporation of Pennsylvania
Application February 8, 1930. Serial No. 426,876
24 Claims. (Cl. 80—42)



1. A cooling bed for hot metal bars comprising two inclined skids located one in advance of the other and in spaced planes, stops at the lower ends of said skids adapted to arrest movement of the bars, a set of reciprocating plungers adjacent the lower end of the first skid adapted to pass bars to the second skid, a second set of reciprocating plungers adjacent the lower end of the second skid adapted to pass bars to a bed section, said two sets of plungers being connected to move in opposite directions.

1,921,354
COMBINED CIGARETTE CASE AND LIGHTER
Irving Florman, New York, N. Y.
Application June 10, 1930. Serial No. 460,245
10 Claims. (Cl. 206—41.4)



1. In a device of the character described, a casing, a cigarette lighter mounted in the upper part of said casing, means in said casing below said lighter for holding cigarettes, a depressible member mounted on the top of said casing, means for lighting said lighter upon depression of said member, and means in said casing extending upward on either side of said lighter and operable by depression of said member for ejecting a cigarette from said casing.

1,921,355
DEVICE FOR THE MANUFACTURING OF KNOTTED CARPETS AND THE LIKE
Johann Goretzky, Reichenberg, Czechoslovakia
Application November 24, 1931, Serial No. 577,129, and in Germany December 1, 1930
6 Claims. (Cl. 139—4)

1. A device for the mechanical manufacturing of knotted carpets and the like with Persian or Smyrna knots, comprising two rotatable and rotatably mounted knotting nippers, including jaws, the jaws of the two knotting nippers being adapted to hold fast the ends of the pieces of

pile thread to be knotted during the formation of the knot and to be displaced in relation to



each other in the direction of the warp threads during the carrying out of the movement required for the drawing tight of the knots.

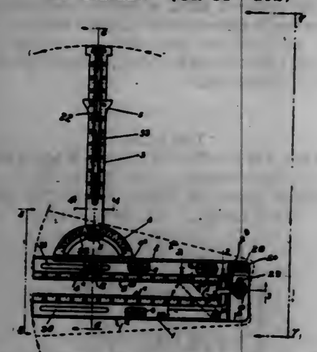
1,921,356

STAIR BUILDING TOOL

Frank F. Gravell, Rochester, N. Y., and Edgar A. Gravell, Milford, Conn.

Application October 26, 1929. Serial No. 402,671

18 Claims. (Cl. 33—102)



1. A tool of the character described comprising a straight-edge member, an angle gauge, means pivotally and slidably connecting the gauge and straight-edge member, an angle plate overlying the gauge and straight-edge member, said angle plate being apertured coincidentally with the pivot point of the gauge, said gauge pivot passing through the aperture of the angle plate and means associated with said pivot for securing the gauge in an adjusted position longitudinally of the straight-edge member, the angle plate having an arcuate edge concentric to the gauge pivot and at a substantial distance therefrom, and means remote from said gauge pivot associated with the gauge and plate for securing said members in adjusted angular positions of the gauge.

1,921,357

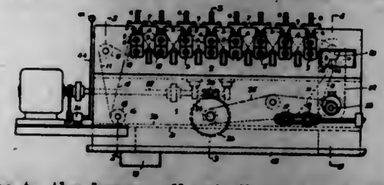
CONNECTION WITH CONTINUOUS ROLLING MACHINES AND THE LIKE

Leonard Henderson, Olten, England, assignor to Metal Sections Limited, Birmingham, England, a Company of Great Britain

Application November 18, 1931, Serial No. 575,914, and in Great Britain April 13, 1931

3 Claims. (Cl. 153—54)

1. A rolling mill comprising a plurality of pairs of roll spindles for receiving the material to be rolled between the rolls on each pair of spindles, bearing blocks in which the roll spindles are mounted, a slotted frame carrying the bearing blocks, a set of chain sprocket wheels mounted in alignment alternately on the upper and lower roll spindles of each pair, a driving chain arranged in a zig-zag manner over these chain sprockets so that the lower roll spindle of one pair is driven in the reverse direction to the upper roll spindle of the adjacent pair and with the driving tension on the chain applying an upward



force to the lower roll spindle and a downward force to the upper roll spindle, a second set of chain sprockets mounted in alignment on the other spindles of each pair and a second chain mounted in a zig-zag manner thereon in a similar manner to the first mentioned chain, whereby both the upper and lower roll spindle of each pair are chain driven.

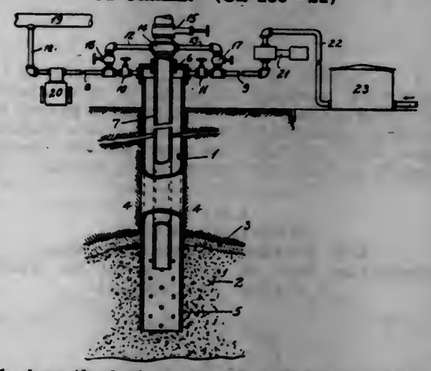
1,921,358

METHOD FOR STORAGE OF PETROLEUM IN NATURAL UNDERGROUND RESERVOIRS

Frank F. Hill and Albert C. Rubel, Los Angeles, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a Corporation of California

Application February 10, 1930. Serial No. 427,225

11 Claims. (Cl. 166—21)



1. A method of storing oil and gas in and the recovery of oil and gas from a partially depleted natural subterranean oil reservoir having a plurality of wells drilled thereinto, which comprises introducing oil and natural gas into said reservoir for the purpose of storing the same and without removal of oil and gas, causing the oil and gas to accumulate in said reservoir under pressure in simulation of an original oil field, and subsequently recovering oil from the subterranean reservoir.

1,921,359

TRAFFIC SIGNAL

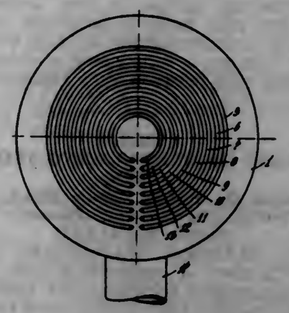
Willem Huisinga, Amsterdam, Netherlands

Application February 13, 1930, Serial No. 428,146, and in the Netherlands February 13, 1929

5 Claims. (Cl. 177—337)

1. In a traffic signal, a group of gaseous discharge tubes of one color, a group of gaseous discharge tubes of a different color, means for mounting said groups concentrically with a tube

of one color alternating with a tube of a different color, a source of energy, and means for



applying said source of energy to one entire group of tubes and then extinguishing the last said tubes one at a time.

1,921,360

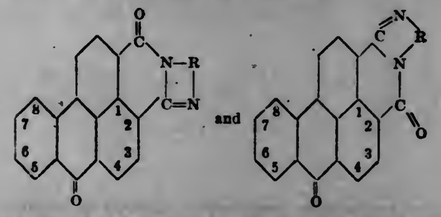
MIXTURES OF NEW ISOMERIC DYESTUFFS AND PROCESS OF PREPARING THEM

Georg Kränzlein, Heinrich Greune, Martin Corell, and Heinrich Vollmann, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application July 23, 1931, Serial No. 552,790, and in Great Britain March 23, 1928

14 Claims. (Cl. 260—44)

1. As new products, the mixtures of isomeric dyestuffs of the probable formulæ:



wherein the nuclei may contain halogen as substituent, and a further benzene nucleus may be condensed in 5.6- or 7.8-position, the benzanthrone complexes in the molecules of the isomeric dyestuffs, however, being identical and wherein R represents an aromatic radical of the benzene and naphthalene series which is bound in two ortho-positions to the nitrogen atoms, said products being vat dyestuffs of good fastness properties, having an intense coloration.

1,921,361

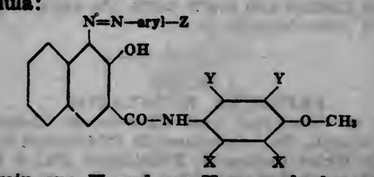
WATER INSOLUBLE AZODYESTUFF AND FIBER DYED THEREWITH

Leopold Laska and Arthur Zitscher, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application August 22, 1929, Serial No. 387,793, and in Germany August 25, 1928

27 Claims. (Cl. 260—94)

2. As new compounds, the water-insoluble azodyestuffs corresponding probably to the general formula:



wherein one X and one Y mean hydrogen, the other X a methoxy-group, the other Y hydrogen, halogen, an alkyl or alkoxy-group, and wherein Z stands for hydrogen or an aryldiazo radical of the benzene series, which dyestuffs yield when mixed with the usual substrata valuable orange to red to blue to black color lakes and orange to red to blue to black dyeings fast to light when produced on the fiber.

1,921,362

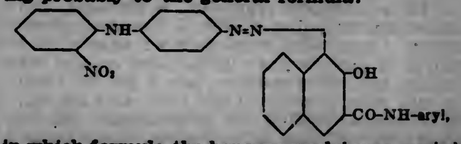
WATER INSOLUBLE AZODYESTUFF

Leopold Laska, Arthur Zitscher, and Wilhelm Koch, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application August 22, 1929, Serial No. 387,801, and in Germany September 11, 1928

10 Claims. (Cl. 260—95)

1. As new compounds azodyestuffs corresponding probably to the general formula:



in which formula the benzene nuclei may contain alkyl, alkoxy, nitro or halogen, which dyestuffs yield color lakes, when mixed with the usual substrata, and dyeings, when produced on the vegetable fiber according to the ice-color methods, the color lakes and dyeings being distinguished by dark garnet to garnet-brown shades.

1,921,363

PROCESS FOR TREATING FIBERS

Georges Lefranc, Paris, France

No Drawing. Original application February 21, 1930, Serial No. 430,461, and in France January 11, 1930. Divided and this application July 11, 1931. Serial No. 550,292

3 Claims. (Cl. 91—68)

1. Process of treating vegetable and animal fibers, which consists in first treating the fibers in a sizing bath, comprising drying oils, casein, borax and water, of an oleatic emulsion free from sulphonated compounds, using alkaline borates as dispersion agents with the addition of a soluble silicate; then passing the thus treated fibers through a deglutinating bath.

1,921,364

MEDIA FOR PROTECTING FURS, HAIRS, FEATHERS, AND ANIMAL TEXTILE PRODUCTS AGAINST THE ATTACK OF ANIMAL AND PLANT PESTS

Wilhelm Lommel and Heinrich Münsel, Wiesdorf-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany

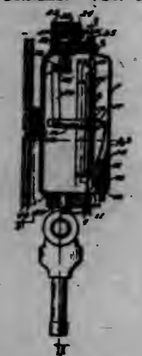
No Drawing. Application May 17, 1929, Serial No. 363,990, and in Germany May 21, 1928

11 Claims. (Cl. 167—37)

1. As products capable of protecting hair, furs,

feathers and animal textile products against attack by animal and plant pests, the salts of quaternary phosphonium bases.

1,921,365
PRESSURE REGULATOR
Allen D. MacLean and Charles B. Johnson, Pittsburgh, Pa., assignors to Pittsburgh Equitable Meter Company, Pittsburgh, Pa., a Corporation of Pennsylvania
Application December 16, 1929. Serial No. 414,507
11 Claims. (Cl. 50—26)



1. In a pressure regulator, a movable valve mechanism including a lever, a threaded opening therein, a removable valve member adapted to be secured to said lever, an unthreaded conical bore through said valve member, and a pin for securing said valve member to said lever, said pin having a conical portion for engagement with the conical bore of said valve member and having a threaded portion for engagement with the threaded opening of said lever.

1,921,366
LIQUID SEAL DEVICE FOR REGULATORS
Allen D. MacLean and Charles B. Johnson, Pittsburgh, Pa., assignors to Pittsburgh Equitable Meter Company, Pittsburgh, Pa., a Corporation of Pennsylvania
Application December 13, 1930
Serial No. 502,200
7 Claims. (Cl. 137—53)

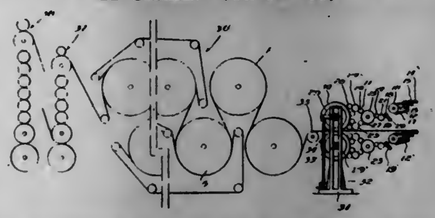


1. In a liquid seal for fluid pressure regulators or the like, a pair of conduits forming therebetween a longitudinally extending annular channel for the sealing liquid, a body member formed with vent holes for the escape of the fluid under predetermined conditions and with two chambers for the reception of sealing fluid expelled under those conditions, the said chambers having means whereby escape of the sealing liquid through the vent holes is positively prevented, one of said conduits passing through both chambers and forming a constricted opening around the conduit and between said chambers.

1,921,367
PROCESS OF CARBURIZING IRON OR STEEL
Edward G. Mahin, South Bend, Ind.
No Drawing. Application January 6, 1930
Serial No. 418,981
12 Claims. (Cl. 148—19)

1. The process of carburizing iron and steel articles comprising retarding the absorption of carbon at the outer thin case of the article to permit the employment of a relatively high carburizing temperature and thereby accelerate carbon diffusion without building up high carbon concentration in the extreme outer layer of the outer case of the articles by carburizing in the presence of a carburizing agent, and an absorption-retarding agent functioning to reduce the absorption of carbon at the outer thin case of the article, said carburization being effected at a temperature substantially above the temperature now employed, the latter being approximately 890° C. and for a shorter period of time than is the current practice, the latter being approximately 13 hours.

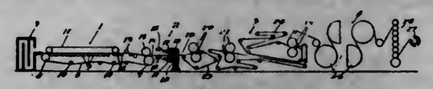
1,921,368
PROCESS OF COATING PAPER
Peter J. Massey, River Forest, Ill.
Application May 29, 1930. Serial No. 457,110
11 Claims. (Cl. 91—68)



1. A continuous progressive method of producing a uniformly coated fibrous sheet suitable for printing purposes, which comprises the following steps: forming a continuous wet fibrous web, drying said web under elevated temperature, bringing said web into contact with moving surfaces carrying a uniformly distributed film of coating material, simultaneously transferring said material as a pre-worked smooth finished coating to opposed sides of the web under pressure and drying said coated web, said pre-worked film being of relatively concentrated condition whereby it will not detrimentally affect the fibrous web.

1,921,369
METHOD OF COATING PAPER
Peter J. Massey, River Forest, Ill.
Application November 4, 1931. Serial No. 572,895
7 Claims. (Cl. 92—40)

1. A continuous method of producing a uniformly coated fibrous web of paper suitable for printing purposes which comprises the following successive steps; forming a continuous wet fibrous web, bringing said web into contact with a moving surface carrying a uniformly distributed film

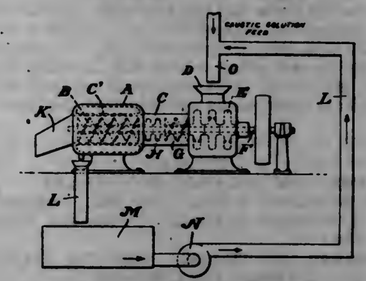


of coating material, and transferring said material as a pre-worked, plastic, substantially dehydrated and continuous film to said web and drying said coated web.

1,921,370
METHOD OF MAKING PHOSPHORUS OXYCHLORIDE
Clayton Olin North, Nitro, W. Va., assignor to Kavalco Products, Inc., Nitro, W. Va., a Corporation of West Virginia
No Drawing. Application January 12, 1933
Serial No. 651,368
10 Claims. (Cl. 23—202)

5. A method of making phosphorus oxychloride, which comprises, adding chlorine to phosphorus trichloride and phosphorus pentoxide, heating the mass and adding chlorine until the reaction is complete.

1,921,371
METHOD OF PRODUCING PUFFED PULP
Joseph E. Plumstead, Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa., a Corporation of Massachusetts
Application October 3, 1930. Serial No. 486,263
13 Claims. (Cl. 92—13)



1. The hereindescribed process of making puffed pulp from cellulosic fibrous material consisting in treating the fibrous cellulosic material with a caustic solution in an amount in excess of that which is physico-chemically necessary to secure curling of the fibre, subjecting the wet mass in non-fluid state to pressure to cause the caustic solution to flush the fibres throughout the mass and by the same pressure to cause such part of the caustic solution to be discharged from the mass as will leave in the pulp an amount of the caustic solution less than would be physico-chemically necessary for the desired puffing.

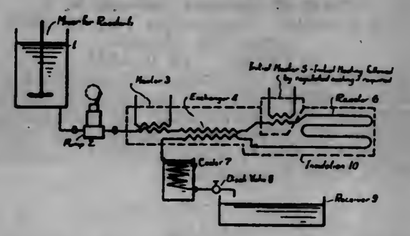
1,921,372
MATCH PACKET AND METHOD
Rodney Southwick Pullen, Akron, Ohio, assignor to Pullenite Company, Philadelphia, Pa., a Corporation of Pennsylvania
Application August 20, 1932. Serial No. 629,768
35 Claims. (Cl. 93—2)

1. Steps in the method of assembling a packet of paper matches which light during withdrawal, using a wrapper and a strip of paper matches attached to a stub, which consists in cutting holes



in the wrapper at intervals and in inserting the matches head foremost through the holes.

1,921,373
METHOD OF CONDUCTING CHEMICAL REACTIONS IN LIQUID MEDIA
Mark E. Putnam, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan
Application January 13, 1930. Serial No. 420,399
6 Claims. (Cl. 260—154)

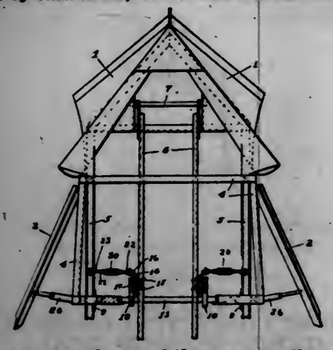


1. In the manufacture of phenol by reacting monochlorobenzene with an aqueous sodium hydroxide solution at an elevated temperature and corresponding pressure, the method which comprises mechanically mixing said chlorobenzene and said solution, continuously introducing the mixture under pressure into a tubular reaction system insulated against heat loss, initially preheating by exchange of heat with a heat transfer medium at a temperature materially below the subsequent reaction temperature, thence passing through a heat exchange zone in countercurrent relation with outgoing reacted material, whereby to preheat the mixture to approximately reaction temperature, causing the preheated mixture to traverse a reaction zone wherein the temperature is maintained above 350° C. but not greatly exceeding 400° C. by regulating the balance between low temperature heat input and heat loss in said preheating steps, passing the hot reacted mixture in countercurrent heat transfer relation with incoming material from said initial preheating step and finally discharging the thereby partially cooled reaction product with release of pressure.

1,921,374
SNOWPLOW
George C. Soule and John B. Woodbury, South Portland, Maine, assignors to Maine Steel Products Company, Portland, Maine, a Corporation of Maine
Application August 1, 1930. Serial No. 472,238
12 Claims. (Cl. 37—44)

1. In a snow plow equipment, a plow nose, means for loosely connecting the nose with a truck frame end, rearwardly extending bars laterally of the plow nose, attaching links, means for pivotally mounting said links on the truck frame sides, a transverse member pivotally en-

gaged by said links, and a connection between the

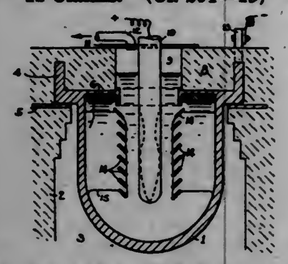


transverse member and the rearwardly extending bars.

1,921,375
VULCANIZING RUBBER
George H. Stevens, Newark, N. J.
No Drawing. Application July 16, 1923
Serial No. 651,968
15 Claims. (Cl. 18—53)

1. A process of vulcanizing rubber which consists in, incorporating into rubber an accelerator comprising the combination of monophenylguanidine and triphenylguanidine, then heating the resultant rubber mixture with a vulcanizing agent to effect vulcanization.

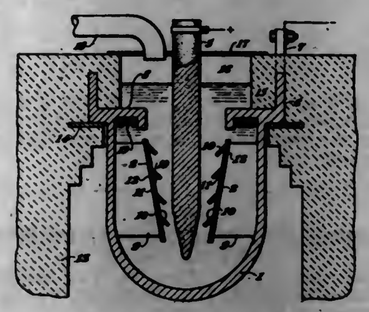
1,921,376
APPARATUS FOR ELECTROLYSIS OF FUSED BATH
Louis E. Ward, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan
Application October 5, 1931. Serial No. 566,836
11 Claims. (Cl. 204—19)



1. In an electrolytic apparatus for producing a metal lighter than the electrolyte, the combination of a vessel to contain a molten salt bath constituting the electrolyte, one or more anodes depending in such bath, a louver type cathode with inclined surfaces sloping upwardly away from the anode and means to collect molten metal rising through the bath from said cathode.

1,921,377
ELECTROLYTIC APPARATUS
Louis E. Ward, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan
Application September 17, 1932
Serial No. 633,547
12 Claims. (Cl. 204—19)

1. In an apparatus for electrolyzing a fused bath to produce a metal lighter than the electrolyte, a cathode adapted to coact with a vertical anode, said cathode having on its face opposed to such anode a plurality of inverted troughs ranged

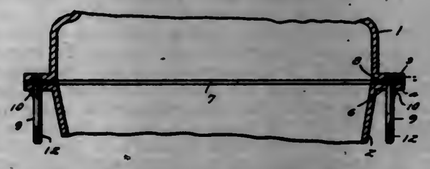


one above the other and adapted to entrap molten metal rising from the active cathode surface, and means to deliver such entrapped metal to a collecting zone therefor.

1,921,378
PRODUCTION OF POLYMERIZATION PRODUCTS FROM ALKYLENE OXIDES
Franz Webel, Mannheim, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application November 13, 1930, Serial No. 495,540, and in Germany November 27, 1929
10 Claims. (Cl. 260—54)

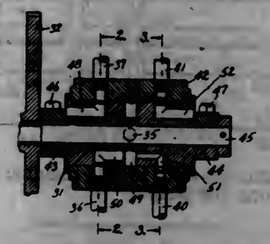
6. In the production of polymerization products from alkylene oxides, the step which comprises contacting vapours of an alkylene oxide selected from the group consisting of ethylene oxide and α-propylene oxide with a solid, nonmetallic, inorganic polymerization catalyst while heating to temperatures between 40° and 200° C.

1,921,379
OIL PAN ASSEMBLING MEANS
Charles W. Bailey, Kansas City, Mo., assignor to Paul A. Froeschl and Otto P. Froeschl, Kansas City, Mo.
Application May 22, 1930. Serial No. 454,808
3 Claims. (Cl. 29—84)



1. In combination with a member having horizontal flanges provided with threaded apertures and a detachable member having a plurality of apertures registering with the threaded apertures; an alining and supporting means engageable in the threaded apertures for alining and supporting the detachable member against the horizontal flanges, said means comprising a round bar having threads at one end to engage in the threaded apertures; said bar having an elongated groove therein, and a resilient supporting member mounted within the groove and having a portion thereof normally disposed beyond the periphery of the bar and positioned in inwardly spaced relation to the threads.

1,921,380
TIMING DEVICE
William T. Barker, Jr., West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware
Original application April 13, 1926, Serial No. 101,663. Divided and this application December 19, 1930. Serial No. 503,545
3 Claims. (Cl. 277—19)



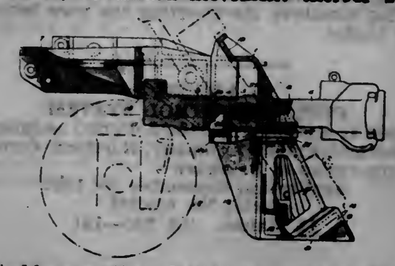
1. A synchronizing device comprising a continuously rotating shaft, a two-way valve adjustably mounted on the shaft for controlling the admission and exhaust of fluid to and from a fluid motor, another two-way valve adjustably mounted on the shaft for controlling the admission and exhaust of fluid to and from a second fluid motor, and means for adjusting the valves to time the movements of said motors relative to each other.

1,921,381
PRODUCTION OF ALCOHOLS OF HIGH MOLECULAR WEIGHT
Hans Beller, Ludwigshafen-on-the-Rhine, and Martin Luther, of Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application July 11, 1931, Serial No. 550,276, and in Germany July 17, 1930
8 Claims. (Cl. 260—156)

1. The process for the production of alcohols of high molecular weight which comprises acting on a from liquid to solid product of the liquid phase oxidation of difficulty volatile nonaromatic hydrocarbons with hydrogen at a temperature between 150° and 300° C., at a pressure between 30 and 150 atmospheres and in the presence of a hydrogenation catalyst and subjecting the resulting product to an extraction with an aqueous solvent selected from the group consisting of water-soluble aliphatic alcohols and their esters with fatty acids containing up to 3 carbon atoms.

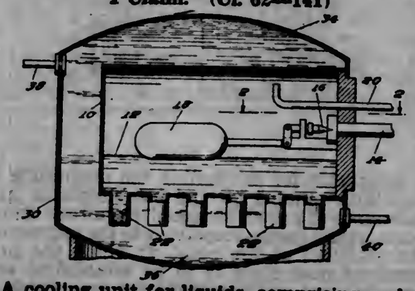
1,921,382
COUPLER ON PILOT BEAMS
Glenn F. Couch, Rochester, N. Y., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland
Application July 13, 1927. Serial No. 205,430
7 Claims. (Cl. 213—4)

1. In combination with a pilot beam formed as a hollow casting, a pilot depending therefrom, a coupler mounted in said pilot beam for vertical swinging from substantially horizontal operative position to inclined position, said pilot being provided with a pocket in the front face thereof for said coupler when swung to inclined position, a portion of said pilot forming an inner wall of said pocket serving as a stop to limit downward movement of said coupler, the stem of said coupler being extended beyond said connection with the pilot beam and counterweighted, a stop for said counterweighted portion being provided by an extension of the upper wall of said pilot beam, whereby upward movement of said counterweight is limited, downward movement thereof being



limited by a portion of said beam underlying said extension and counterweighted portion, and means provided for holding said coupler in substantially horizontal position, said means being supported in pockets formed on the pilot beam.

1,921,383
LIQUID COOLER
Harry E. Crosby, Huntington Park, Calif., assignor to Mission Dry Corporation, Ltd., Los Angeles, Calif., a Corporation of Delaware
Application October 20, 1930. Serial No. 489,993
1 Claim. (Cl. 62—141)



A cooling unit for liquids, comprising a chamber, inlet and outlet pipes for the chamber, and a refrigerating unit in the chamber, said refrigerating unit including a cylinder, and hollow cylindrical extensions on the lower portion of the cylinder and extending into the liquid to be cooled for providing additional contacting cooling surface said extensions provided with closed ends, together with a liquid inlet pipe and a gas outlet pipe for the cylinder, and a float valve control for the inlet pipe.

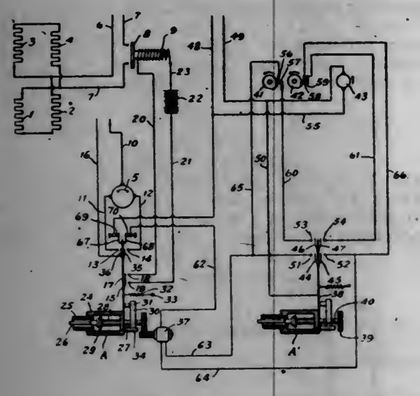
1,921,384
WIRE STRIPPING APPARATUS
Ray O. Crowell, Rome, N. Y., assignor to General Cable Corporation, New York, N. Y., a Corporation of New Jersey
Application September 30, 1931
Serial No. 565,997
5 Claims. (Cl. 81—9.51)



1. Apparatus for stripping wire, comprising in combination, a rotatable chuck, cutting members secured therein and provided with flexible pro-

truding ends, transversely inclined blades on said members, said blades being hollow ground to form longitudinal wire-receiving grooves, and laterally extended, internally flared ends on said cutting members for directing the wire between said blades.

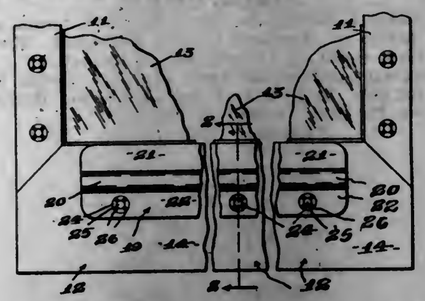
1,921,385
DUPLEX CONTROL SYSTEM
Harold L. Eastman, Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware
Application September 30, 1932
Serial No. 635,478
11 Claims. (Cl. 236—15)



1. Apparatus for controlling the magnitude of a condition tending to the establishment and maintenance of a predetermined magnitude therefor, comprising means responsive to the magnitude of the condition at the point at which the predetermined magnitude is to be established and maintained, means for varying the magnitude of a supply condition which is a directly contributing factor to the magnitude of the first named condition, other and distinct means responsive to the magnitude of said supply condition, means controlled by said other and distinct means for controlling the magnitude of said supply condition in response to variations thereof from a range of magnitudes, means adapted to be controlled in response to variations of the magnitude of the first named condition from its predetermined magnitude for varying the limits of said range similarly, and means for limiting the adjustment of said range at any time to predetermined differences in one direction and the other between the means thereof and the then existing magnitude of said supply condition.

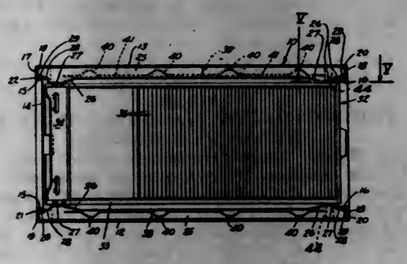
1,921,386
WINDOW SASH CONSTRUCTION
Oliver M. Edwards, Syracuse, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a Corporation of New York
Application October 19, 1931. Serial No. 569,675
9 Claims. (Cl. 189—76)

1. In a window sash having a hollow sheet metal frame member, the combination of a reinforcing strip extending lengthwise of said member on the outside thereof the greater part of the length of said member, said strip being tensioned to press its opposite lengthwise marginal portions against the sash member, and means



for clamping the strip to said member and thereby tensioning the strip.

1,921,387
FILING CABINET
Charles A. Finley, North Tonawanda, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y.
Application June 10, 1931. Serial No. 543,469
8 Claims. (Cl. 45—2)



8. A cabinet for index trays comprising a casing, a plurality of spacer channels in said casing, and a strip bent to engage inner portions of said channels for maintaining the side walls thereof in constant spaced relation.

1,921,388
PROCESS OF MAKING HYDROCHLORIC ACID
Sheldon B. Heath and Forest R. Minger, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan
No Drawing. Application September 20, 1929
Serial No. 394,133
10 Claims. (Cl. 23—156)

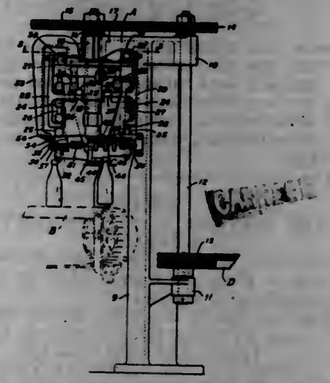
5. A process for the manufacture of hydrochloric acid which comprises contacting water vapor and an air-chlorine mixture containing a relatively small proportion of chlorine with a body of carbon in subdivided form at a temperature between about 100° and 400° C. and separating hydrochloric acid from the reacted gaseous mixture.

8. A process for the manufacture of hydrochloric acid which comprises diluting an air-chlorine mixture containing in excess of about 4 per cent of chlorine by volume with a sufficient volume of a non-reactive gas to produce a mixture containing between 1 and 4 per cent of chlorine, contacting such gas mixture with a body of carbon in subdivided form at a temperature between about 100° and 400° C. and in the presence of water vapour in amount at least to correspond to the equation

$$2Cl_2+2H_2O+C \rightarrow 4HCl+CO_2$$

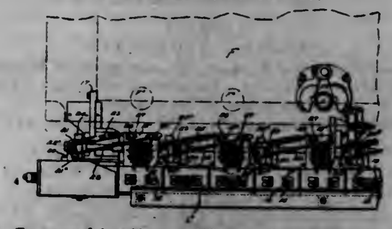
returning a portion of the exit gases of the reaction to the first step for the diluent gas therein and separating hydrochloric acid from the remainder of such exit gases.

1,921,389
GLASSWARE TRANSFER DEVICE
Henry W. Ingle, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware
Application November 29, 1929
Serial No. 410,285
12 Claims. (Cl. 214—1)



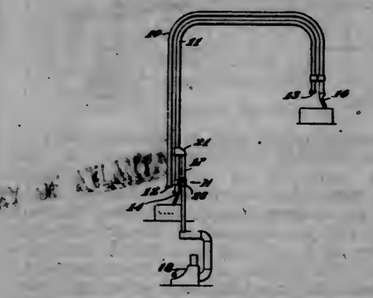
1. A glassware transfer device adapted to transfer articles of glassware from a moving surface to a second less rapidly moving surface comprising an arm, means to rotate the arm continuously and at a uniform speed about a stationary axis eccentric of both said moving surfaces, glassware gripping means mounted on the arm, and means including the arm rotating means to move the gripping means through a path distant from said axis as they grip the ware and to move the gripping means through a path less distant from said axis as they deposit the ware, whereby the velocity of the gripping means more closely corresponds to the velocity of the less rapidly moving surface.

1,921,390
GLASSWARE CONVEYER
Henry W. Ingle, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware
Application January 4, 1930. Serial No. 418,524
16 Claims. (Cl. 49—47)



2. In combination with a glassware forming machine having a plurality of take-out points, a glassware handling device comprising a conveyer, a plurality of glassware receiving platforms adjacent the conveyer, each adapted to receive ware directly from the machine at one of said take-out points, means for moving the glassware from the platforms to the conveyer, and means for varying the time of dwell of the articles of glassware upon the platforms.

1,921,391
PNEUMATIC TUBE TERMINAL
Chester S. Jennings, Syracuse, N. Y., assignor to The Lamson Company, Syracuse, N. Y., a Corporation of Massachusetts
Application February 15, 1930. Serial No. 428,700
6 Claims. (Cl. 243—23)



1. In a transmission system, the combination of a transmission tube, a by-pass tube comprising aligned tube sections, valve mechanism comprising a body member adapted to receive the adjacent ends of the by-pass sections, a lateral connection between the body member and the transmission tube, a valve disposed in the body member and operable for cutting off the flow through the lateral connection, and means disposed in the body member for restricting the flow from the by-pass tube to the body member.

1,921,392
PLUG FUSE
Frank C. La Mar, New York, N. Y., assignor to Great Western Fuse Company, New York, N. Y., a Corporation of Delaware
Application August 1, 1930. Serial No. 472,267
1 Claim. (Cl. 200—119)



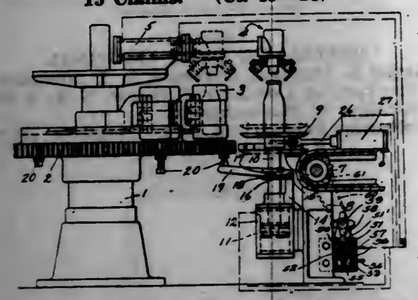
In a plug fuse, in combination: a body formed with a cavity; means on the outside of the body for making connection to each side of an electric circuit; means extending into the cavity of the body making connection to each side of the electric circuit; two separated clip-like members within the cavity electrically connected to said last named means with at least one electrically connected by means of a thermal element; means within the cavity substantially covering the thermal element and a unitary thermal device extending between said clips, said unitary thermal device including a thermal element enclosed in a chamber having electrical conducting ends between which the thermal element extends and means closing the cavity including a transparent member.

1,921,393

RECEIVER FOR GLASS FORMING MACHINES

Edward H. Lorenz, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware

Application July 11, 1930. Serial No. 467,197
15 Claims. (Cl. 49—14)



15. The combination with an automatically operated glass forming machine arranged for fabricating a plurality of articles of different heights in each of its recurring cycles of operation, and an automatically actuated take-out mechanism for the removal of the articles from the machine, of a receiver upon which the take-out deposits the articles as they are successively removed from the machine, and selective means operating automatically and in synchronism with the operation of the take-out mechanism for presenting the receiver at a recurring series of different elevations selected respectively in accordance with the heights of the articles being transferred to compensate respectively for the articles of different heights formed in each cycle of the operation of the machine, whereby to enable the take-out to deposit the articles thereon without dropping.

1,921,394

HAIR CURLING AND WAVING DEVICE

Thomas McArdle, New York, N. Y.

Application June 23, 1932. Serial No. 618,837
8 Claims. (Cl. 132—38)



1. A hair curling device comprising an elongated flexible element having openings in opposite ends thereof, a convoluted member extending lengthwise of said flexible element with its opposite ends extending into the opposite open ends of said flexible element.

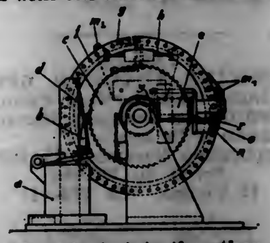
1,921,395

SHUNTING SYSTEM

Karl Möller, Berlin-Siemensstadt, Blockwerk, Germany, assignor, by mesne assignments, to the Firm Vereinigte Eisenbahn-Signalwerke G. m. b. H., Berlin-Siemensstadt, Germany

Application December 6, 1928, Serial No. 324,310, and in Germany January 21, 1928
3 Claims. (Cl. 104—26)

1. Apparatus for the accumulation and release of the energy of switching impulses for the operation of the switches of switching systems comprising a drum fixed to a shaft, two ratchet mechanisms rotatably mounted upon said shaft and arranged on each side of the drum, slidable contacts on said drum adapted to assume at least two different positions, means individually associated with said contacts adapted to hold them in one of said two positions, means provided in association with one ratchet mechanism adapted



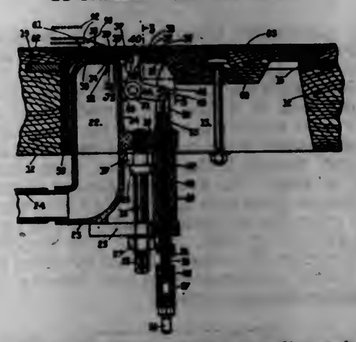
to move said contacts into the other of said two positions, movable means operated by the slidable contacts, and means associated and cooperating with said movable means adapted to assume either one of two different positions therewith corresponding with the two positions of said contacts.

1,921,396

LOOM HAVING A STATIONARY WEFT SUPPLY

William Pool, Spondon, near Derby, England, assignor to Celanese Corporation of America, a Corporation of Delaware

Application March 30, 1931, Serial No. 526,317, and in Great Britain May 9, 1930
14 Claims. (Cl. 139—127)
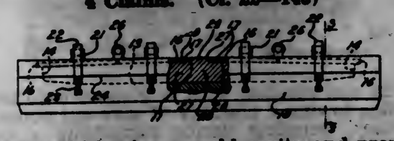


1. A loom in which picks of weft are inserted from a stationary supply, comprising an aperture to which suction can be applied to seize the end of a pick after insertion of said pick through the shed and means adapted to trap the end of said pick and hold it under tension during beat-up.

1,921,397

MOLDING APPARATUS

James W. Scott, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York

Application February 24, 1931. Serial No. 517,704
4 Claims. (Cl. 22—143)



1. A mold having a mold cavity and provided with downwardly inclined cover supporting surfaces extending from adjacent points between the ends of the cavity to the ends thereof, and covers supported thereon to form downwardly inclined spaced upper wall portions for the mold cavity.

1,921,398

MANUFACTURE AND SEPARATION OF SULPHUR-CONTAINING PRODUCTS OF THE ACID HYDROLYSIS OF KERATIN AND KERATIN SUBSTANCES

Ernst Sturm, Berlin-Laukwitz, Germany, assignor to the Firm Johann A. Wulfing, Berlin, Germany

No Drawing. Application August 7, 1931, Serial No. 555,870, and in Germany August 26, 1930
3 Claims. (Cl. 260—9)

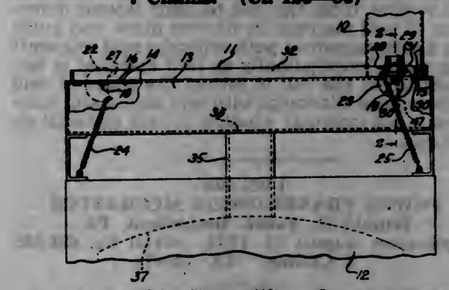
1. A method of manufacturing and separating sulphur-containing products of the acid hydrolysis of substances comprised of keratin, comprising the steps of treating said substances with acid, stopping the treatment at that point at which the keratin substances just lose their natural form and turn into a gluey mass, diluting the reaction mass with water, neutralizing it with a substance having an alkaline reaction, completing the precipitation which occurs by saturating the solution with a water-soluble sulphate having a salting-out effect, filtering off the precipitate and boiling it with water, filtering off and drying the part remaining undissolved, comprised of keratinates, cooling the hot filtrate in order to deposit the keratoses, and removing the resulting deposit containing the keratoses from the liquor, which contains the lower splitting products.

1,921,399

EXHAUSTING MECHANISM

Robert W. Van Valzah, Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York

Application March 5, 1932. Serial No. 596,989
7 Claims. (Cl. 126—56)



1. The combination with a furnace movable into a plurality of operating positions, of a stationary exhausting stack, a hood disposed upon said furnace for receiving gas passing from said furnace and having openings disposed at spaced positions in said hood for affording communication between said stack and said hood at each of the positions of said furnace, and means for closing the openings when out of general alignment with the stack.

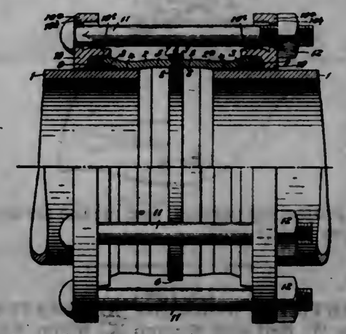
1,921,400

DIVIDED MIDDLE RING COUPLING

Clifford P. Weber, Bradford, Pa., assignor to S. R. Dresser Manufacturing Company, Bradford, Pa., a Corporation of Pennsylvania

Application March 28, 1931. Serial No. 525,908
7 Claims. (Cl. 285—132)

5. In a coupling of the kind described, the combination with a middle ring divided transversely into two sections, the inner ends of one of said sections being of different greater diameters than the other to accommodate insulation surrounding the adjacent pipe end, and the outer end of each section being provided with end packing engaging portions, a filler ring located between said middle ring sections, and provided with annular recesses of a width sufficient to re-



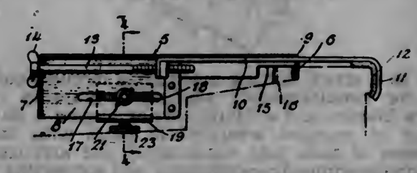
ceive the inner end portion of either middle ring section, packings in said recesses, end packings, clamping rings, and clamping bolts and nuts for connecting said clamping rings, to compress said end packings and simultaneously force the inner ends of said middle ring sections into sealing engagement with the packing in the recesses of said filler plate.

1,921,401

SEAT FOR CLEANING WINDOWS

Otto L. Weller, Brooklyn, N. Y.

Application June 1, 1931. Serial No. 541,203
1 Claim. (Cl. 294—24)



A window seat comprising a body having sides provided with longitudinal slots, means carried by said body to clamp the same to a window sill, bearing members adjustable along said slots, securing means extending through said slots to fasten said bearing members in adjusted positions, said bearing members having guides provided with grooves for receiving the lower edge of the associated side of said body, and adjustable supports carried by said bearing members and engageable with said sill to move said seat into a horizontal position.

1,921,402

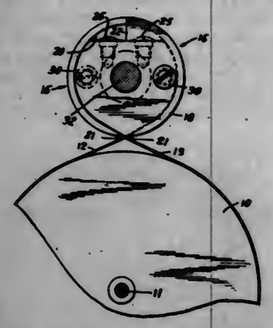
TAPE DRIVE

Raymond D. Wiley, Dayton, Ohio, assignor to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey

Application June 25, 1931. Serial No. 546,776
5 Claims. (Cl. 74—21)

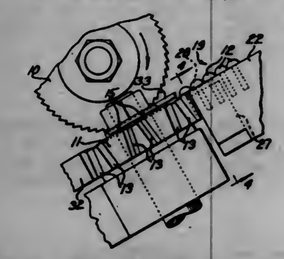
1. A device comprising a unit provided with two similar complementary parts, each having a projecting portion and a flange extending laterally of the projecting portion, means for securing the parts together with the projecting portion of each part received within the flange of the other

part, tapes one between each flange and co-



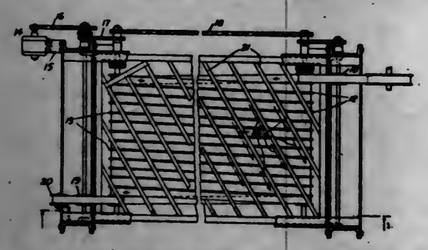
acting projecting portion, and means for securing the tapes to the unit.

1,921,403
ARTICLE WORKING APPARATUS
Charles W. Bell and Warren K. Dillon, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York
Application December 31, 1931. Serial No. 584,096
8 Claims. (Cl. 10—6)



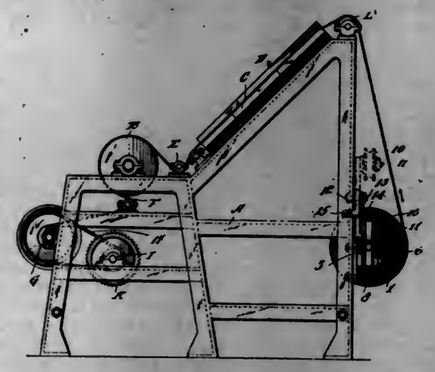
3. In a screw slotting machine, a circular cutter for simultaneously slotting a plurality of screw blanks, and a blank carrier having a plurality of recesses arranged in pairs with the recesses of each pair constructed and arranged for predeterminedly positioning and supporting a pair of blanks so that their axes extend radially of the cutter.

1,921,404
CONTINUOUS FILM PROCESSING MACHINE
James Crabtree, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application May 21, 1931. Serial No. 539,047
4 Claims. (Cl. 95—94)



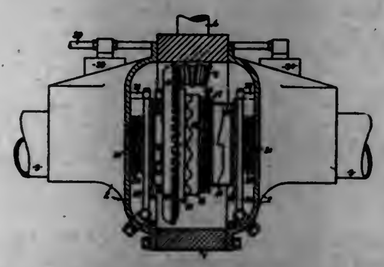
1. The combination with the developing chamber of a continuous film processing machine having means for guiding and moving a photographic film, of means for eliminating directional effect in the developing of said film, said means comprising a plurality of wiping units secured to said chamber along the path of travel of said film at an angle to the longitudinal axis thereof.

1,921,405
ROLL SHAFT MOUNTING FOR INSPECTION REELERS AND THE LIKE
William J. Cullen, Maplewood, N. J.
Application September 3, 1931. Serial No. 560,963
3 Claims. (Cl. 242—76)



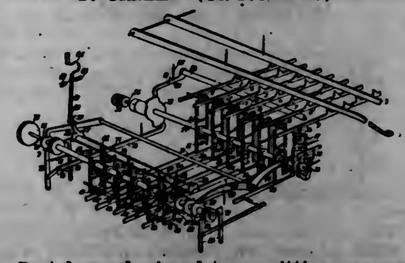
1. The combination of a frame, a shaft with a roll of material thereon, means for mounting said shaft on said frame for rotation and free longitudinal movement in both directions, means on said frame for unwinding said material from said roll under tension, and guides on said frame each engaging one edge of said material between said roll and said means for unwinding said material and remote from the roll to limit lateral movement of said material in its own plane and guide it in a predetermined path, whereby said roll shaft may move longitudinally as said material is unwound from the roll to adjust the edges of said material into alinement with said guides and compensate for irregular winding of said material on said roll.

1,921,406
POWER TRANSMISSION MECHANISM
Donald B. Foust, Bethlehem, Pa.
Application August 12, 1932. Serial No. 628,535
8 Claims. (Cl. 74—7)



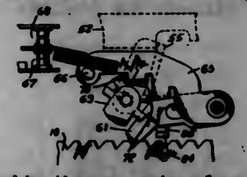
1. A mechanism as described comprising a pair of driven shafts, a driving shaft, means for directly connecting the driving shaft with one of the driven shafts, and a spring-pressed clutch for connecting the driven shafts together.

1,921,407
TELEGRAPH TRANSMITTING APPARATUS
Ronald George Griffith, Croydon, England, assignor to Creed and Company, Limited, Croydon, England
Application February 29, 1932, Serial No. 595,851, and in Great Britain September 3, 1931
17 Claims. (Cl. 178—17.5)



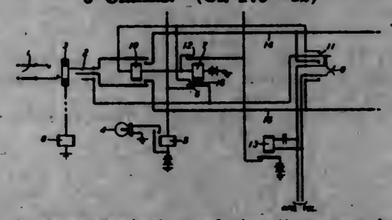
1. In telegraph signal transmitting apparatus, a keyboard, separate keys in said keyboard for characters in separate case groups, and means operable in response to the actuation of a character key on a change of case to insert an appropriate case signal.

1,921,408
RECORD CONTROLLED MACHINE
William F. Gutgesell, Endicott, N. Y., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey
Application December 15, 1931. Serial No. 581,143
9 Claims. (Cl. 164—115)



1. In combination, a carriage for a control record and means for imparting step-by-step feeding movements to the carriage, means controlled by a designation in the record for causing said feeding means to impart to the carriage a feeding movement greater than one of said step-by-step movements, and means controlled by another designation for disabling the designation controlled means to restore step-by-step feeding movement of the carriage by the first named means.

1,921,409
TELEPHONE SYSTEM
Edward E. Hinrichsen, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application December 1, 1932. Serial No. 645,195
6 Claims. (Cl. 179—42)



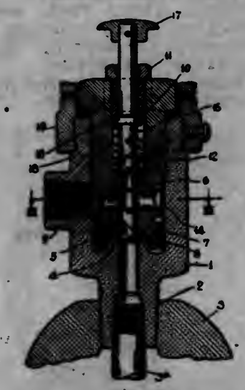
1. In an operator's cord circuit, means jointly controlled by insertion of the answering plug into an answering jack and operation of the operator's listening key to electrically connect the cord circuit with the answering plug thereof and means operated by voice current in the operator's circuit to lock said cord circuit connected to the answering plug independent of said listening key.

1,921,410
GALLEY
George M. Hume, Fresno, Calif.
Application February 23, 1932. Serial No. 594,451
13 Claims. (Cl. 276—40)



1. A galley for receiving type for making up a type form comprising a tray provided with sides arranged and adapted for supporting adjacent sides of the form, and means mounting said first mentioned sides for movement in a plane perpendicular to the plane of the tray.

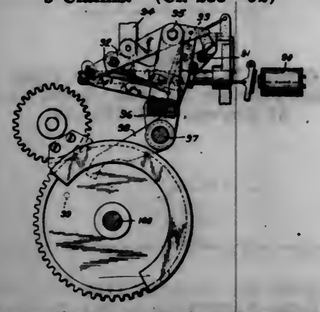
1,921,411
GAS CONTROL SYSTEM
Charles S. Johann, New York, N. Y.
Application September 28, 1928, Serial No. 308,999
Renewed April 29, 1930
12 Claims. (Cl. 169—11)



4. A combined filling and discharging fixture for fluid pressure containers comprising a chambered fixture body having means for conducting fluid thereto and therefrom and provided with a disc means seat, a movable carrier at all times operable from without the fixture, a disc means carried by the carrier, said disc means being clamped thereby upon the seat, and a disc means-piercer adapted to be supported in operative relation to the disc means.

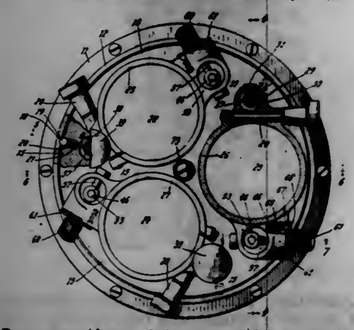
7. A combined filling and discharging fixture for fluid pressure containers comprising a chambered fixture body having means for conducting fluid thereto and therefrom and provided with a disc means seat, a movable carrier adapted for operation from without the fixture and having a longitudinal bore, a disc means carried by the carrier, said disc means being clamped thereby upon the seat, and a disc means piercer carried by the disc means carrier and received in its bore for endwise movement therein.

1,921,412
TABULATING MACHINE
John T. Jones, Clifton, N. J., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey
Application October 22, 1931. Serial No. 570,390
9 Claims. (Cl. 235—92)



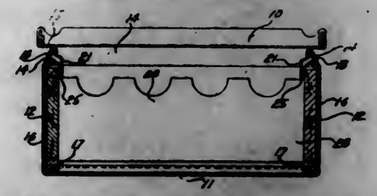
2. In a machine of the class described having card feeding means, automatic group control mechanism adapted to alter the type of machine operation upon a change in record classification, means for disabling the operation of said mechanism, means for detecting the presence of predetermined cards and further means controlled thereby for rendering said mechanism effective.

1,921,413
LENS HOLDER CONSTRUCTION AND POSITION INDICATOR
Albert Kindelmann, Floral Park, and Ewald Boecking, Brooklyn, N. Y., assignors to International Projector Corporation, New York, N. Y., a Corporation of Delaware
Application January 12, 1931. Serial No. 508,264
4 Claims. (Cl. 88—57)



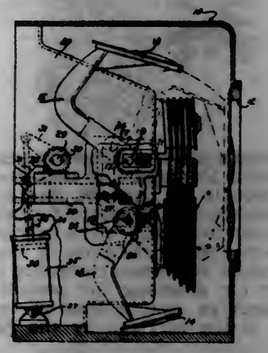
1. In a motion picture machine, a frame, a supporting ring disposed therein, a lens holding turret element rotatably disposed within said ring, said ring having a groove therein, a tongue on the turret element to lie and slide in said groove, said element having a plurality of bores therethrough for the passage of projection light, lens disposed in said bores at one side of the turret element, means to latch the turret element in several positions to align the lenses with an optical axis, a sliding spider adjacent the other side of the turret element, a plurality of light shielding tubes on said spider and adapted to slide in and out of said bores, a rod on which said spider is disposed to slide in and out of said bores, a rod on which said spider is disposed, said rod slidingly bearing in the turret element, and a spring acting on the spider to hold the tubes in a predetermined position normally.

1,921,414
ADAPTER FOR APPARATUS HANDLING RECEPTACLES
Maurice W. Lane, Chicago, and Stanley A. Price, La Grange, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York
Application June 11, 1931. Serial No. 543,538
10 Claims. (Cl. 220—22)



1. The combination with a receptacle having side walls, of receiving members disposed in said receptacle adjacent said side walls, a plurality of dividers disposed in said receptacle and having their ends receivable in said receiving members, and means carried by said receiving members for locking said dividers in place.

1,921,415
DOOR OPERATING MECHANISM
Einer W. Larsen, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York
Original application May 16, 1930, Serial No. 453,004. Divided and this application April 10, 1931. Serial No. 529,010
8 Claims. (Cl. 268—50)



1. In an apparatus for closing an aperture, a pair of door sections, means for moving the door sections arcuately to bring them together and in alignment with the aperture, and means for maintaining the doors closed and advancing them along the line to close the aperture.

1,921,416
ALLOY
Robert H. Leach, Fairfield, Conn., assignor to Handy & Harman, New York, N. Y., a Corporation of New York
No Drawing. Application May 4, 1933
Serial No. 669,370
4 Claims. (Cl. 75—1)

1. An alloy which consists of silver varying from about 4% to about 36%, copper varying from about 55% to about 80%, tin varying from about 5% to about 15%, and phosphorous varying from about 2% to about 6%.

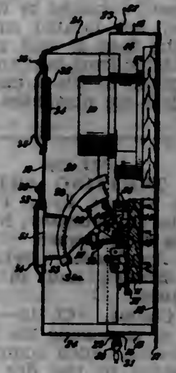
1,921,417
ALLOY
Robert H. Leach, Fairfield, Conn., assignor to Handy & Harman, New York, N. Y., a Corporation of New York
No Drawing. Application May 23, 1933
Serial No. 672,469
4 Claims. (Cl. 75—1)

1. An alloy which consists of silver ranging from about 5% to about 20%, copper ranging from about 55% to about 80%, zinc ranging from about 5% to about 25%, and phosphorus ranging from about 2% to about 5%.

1,921,418
ALLOY
Robert H. Leach, Fairfield, Conn., assignor to Handy & Harman, New York, N. Y., a Corporation of New York
No Drawing. Application May 23, 1933
Serial No. 672,468
4 Claims. (Cl. 75—1)

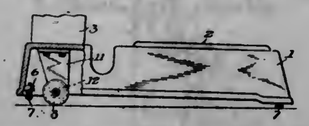
1. An alloy consisting of silver ranging from about 5% to about 20%, copper ranging from about 55% to about 84%, cadmium ranging from about 1% to about 25%, and phosphorus ranging from about 2% to about 5%.

1,921,419
ELECTRIC SWITCH
Morgan J. Lewis, Massillon, Ohio, assignor to The M. J. Lewis Products Company, Philadelphia, Pa., a Corporation of Ohio
Application May 16, 1929. Serial No. 364,159
4 Claims. (Cl. 200—114)



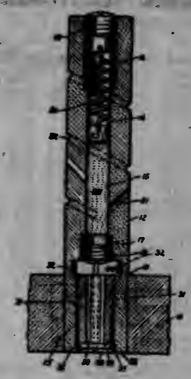
1. An electric switch including a box provided with an opening, a shutter movably mounted in the box, means between said shutter and said opening operative to seal the interior from said opening in all positions of said shutter, a fuse receptacle mounted in said shutter and adapted to register with said opening, a fuse in said receptacle, a switch blade carried by said receptacle, a conductor bar carried by said receptacle and spaced from the switch blade, said fuse electrically connecting the switch blade and conductor bar, and contact jaws in the box adapted to engage the switch blade when the shutter is swung to move the receptacle out of registry with said opening, said sealing means acting to limit the movement of the shutter in either direction.

1,921,420
RETRACTABLE SUPPORTING GEAR
Jerry F. Macourek, Cicero, Ill., assignor to O. D. Jennings & Company, Chicago, Ill., a Corporation of Illinois
Application April 11, 1931. Serial No. 529,420
1 Claim. (Cl. 280—43)



In a structure having a rigid supporting base adapted to rest on a floor, means rendered operable by tilting the base one way to provide a rolling support therefor and adapted to be rendered inoperative by tilting the base the opposite way, said means comprising, in combination with spaced vertically disposed rigid parts of said base having parallel L-shaped slots arranged to provide vertically extending branches and lower horizontally extending branches, roller means having axle means mounted in said slots, said roller means being of such diameter as to be effectual to support the base only when the axle means engage in the horizontally extending branches of said slots, wherefore by tilting the base one way the roller means can be caused to drop by gravity into operative position and by tilting the base the opposite way the roller means can be caused to move by gravity to inoperative position.

1,921,421
REMOVABLE GUIDE PIN
Newman M. Marsilius, Bridgeport, Conn., assignor to The Producto Machine Company, Bridgeport, Conn., a Corporation of Connecticut
Application December 12, 1931. Serial No. 580,724
4 Claims. (Cl. 287—20)



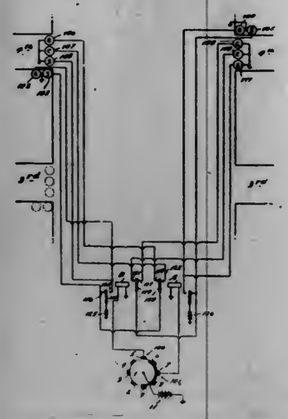
1. The combination with a member having a cylindrical hole therein, a pin having a cylindrical end portion to fit said hole and a central opening in said end portion, radial slots also formed in said end portion and extending out from the opening forming flexible sections each having a longitudinal raised lobe formed on its inner surface, the upper end portions of the walls of said sections being thinner than the lower end portions, a rotatable floating cam in said opening having a series of longitudinally tapered ribs on its face to engage the length of said lobes, and means for rotatably supporting the cam within the opening.

1,921,422
WEATHER STRIP FOR CAR DOORS
Joel Hubert Mattern, Altoona, Pa.
Application October 27, 1931. Serial No. 571,310
12 Claims. (Cl. 189—46)



12. In a railway house car having a side door opening, in combination, a side plate, a header secured to said side plate and extending into said opening, said header having a trough positioned outwardly of said car, said opening being adapted to be closed by a door provided with a flange adjacent the upper margin thereof extending inwardly in overlapping relationship with said trough.

1,921,423
HIGHWAY TRAFFIC CONTROL SYSTEM
Daniel Joseph McCormick, Brooklyn, N. Y., assignor of twenty-five per cent to Paul Kolisch, New York, N. Y.
Application June 12, 1925. Serial No. 36,567
6 Claims. (Cl. 177—339)



3. In a system for controlling traffic along a highway having an intersecting street, means for causing "go" and "stop" indications to move in successive alternate groups in both directions on said highway, means responsive to an indication of "stop" to highway traffic moving in both directions at the street intersection for indicating "go" to traffic on said street approaching said highway from both sides.

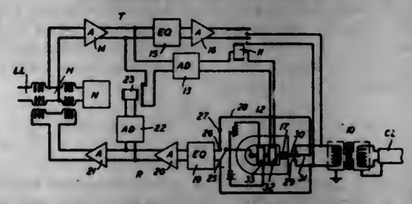
1,921,424
MEDICINAL REMEDY
Fred P. Nabenhaner, Philadelphia, Pa., assignor to Smith, Kline & French Laboratories, Philadelphia, Pa., a Corporation of Pennsylvania
No Drawing. Application March 8, 1930
Serial No. 434,452
8 Claims. (Cl. 167—58)

7. As a medicinal remedy for local treatment of the mucosa, a substituted benzyl carbinamine having the formula

$C_6H_5.CH_2.CHX.NH_2$,

in which X is an alkyl or alphyl group.

1,921,425
POLAR RELAY CIRCUIT
Charles N. Nebel, Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application March 19, 1931. Serial No. 523,684
4 Claims. (Cl. 179—170)



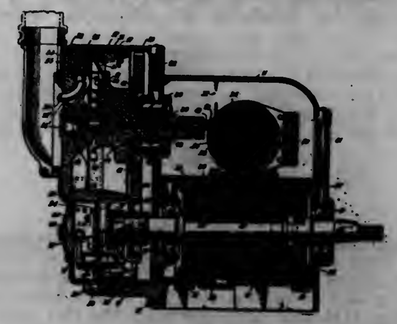
1. In combination a circuit carrying only currents of extremely low amplitude, a polar relay for altering the connections of said circuit, said relay having a magnetic field and an armature movable therein, and means for reducing noise energy in the circuit comprising a movable contacting element actuated by the armature of said polar relay but located substantially entirely outside the field of said polar relay and electrically insulated from said armature, whereby voltages induced in the armature by movement in said field are prevented from reaching said circuit.

1,921,426
METHOD OF TREATING ARTIFICIAL SILK
Henri François Niegret, Lyon, France, assignor to Du Pont Rayon Company, New York, N. Y., a Corporation of Delaware
No Drawing. Application October 12, 1929, Serial No. 399,406, and in Great Britain October 30, 1928
6 Claims. (Cl. 18—48)

1. A process of increasing the tensile strength of artificial threads which comprises rendering plastic by heating in the dry state artificial threads or filaments having a cellulose derivative as the base thereof and stretching the same beyond the breaking point of the original dry threads or filaments.

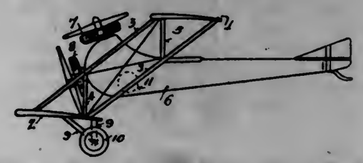
1,921,427
MAGNETO
Edward B. Nowosielski, Bloomfield, N. J., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J., a Corporation of New Jersey
Application April 13, 1932. Serial No. 605,075
8 Claims. (Cl. 171—209)

2. A magneto comprising a housing formed to provide a closed inductor chamber and a compartment containing a rotatable circuit controller, means extending from said inductor chamber into said compartment for driving said circuit controller, terminals in said compartment, said terminals being disposed within spark-jumping



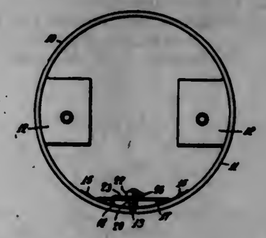
distance of the path of rotation of said circuit controller, and means for ventilating said compartment.

1,921,428
AIRCRAFT STRUCTURE
George H. Pegram, South Orange, N. J.
Application August 21, 1929. Serial No. 387,286
17 Claims. (Cl. 244—14)



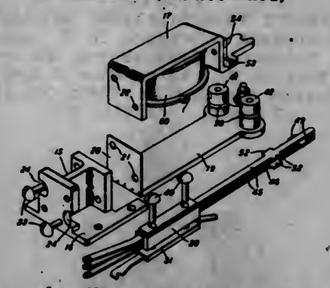
1. In an air-craft machine, an upper wing and a lower wing of continuous crescent shape rigidly connected by longitudinal trusses and held in staggered relation along the longitudinal axis of the machine, propeller structures, and means for varying the resultant thrust of the propellers.

1,921,429
PISTON SKIRT EXPANDER
Carroll W. Prochaska, New York, N. Y.
Application May 6, 1932. Serial No. 609,580
14 Claims. (Cl. 309—12)



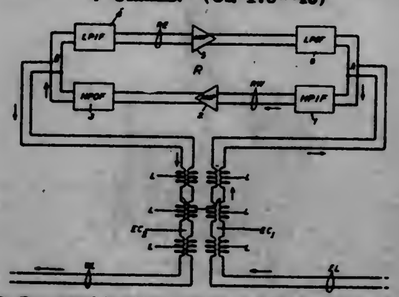
1. A piston expander including a curved expander plate having inherent resiliency, an adjusting plate having the ends thereof engaging the concave surface of said expander plate, and means for forcing the adjusting plate towards the central portion of said expander plate, whereby the ends of said adjusting plate force the ends of said expander plate outwardly.

1,921,430
ELECTROMAGNETIC SWITCHING DEVICE
John N. Reynolds, Princeton, N. J., and Henry F. Dobbin, New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application June 19, 1930. Serial No. 462,166
9 Claims. (Cl. 200—104)



1. In a relay the combination of a magnetic circuit comprising a core, yoke and armature, a mounting bracket consisting integrally of a main body portion and a plurality of shelf-like extensions, a resilient mounting member secured to one end of said armature and extending at right angles to the longitudinal axis thereof and interposed between the main body portion of said mounting bracket and a portion of said yoke, means for clamping said resilient mounting member in position and securing the elements of said magnetic circuit as a unit to the main body portion of said mounting bracket, and a plurality of contact spring units supported by and secured to the shelf-like extensions of said mounting bracket.

1,921,431
LOADING SYSTEM
Timothy E. Shea, Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application August 11, 1930. Serial No. 474,331
7 Claims. (Cl. 178—45)



6. In combination, two sections of an open-wire line and a two-way repeater interconnecting said sections, means for impressing on said line signal waves of one frequency range to be transmitted thereover in one direction, and signal waves of a different frequency range to be transmitted thereover in the opposite direction, said repeater comprising amplifying means for repeating respectively waves of each frequency range between said line sections to the substantial exclusion of waves of the other frequency range, two two-way cable pairs respectively connecting said line sections to said repeater and in such close proximity as to allow interchange of high frequency energy therebetween and means

for periodically loading said cable pairs to obtain substantially uniform low attenuation in transmitted waves of all frequencies in both ranges while producing high attenuation in transmitted waves of substantially all frequencies above said ranges.

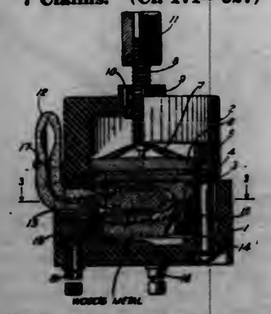
1,921,432

CONSTANT TEMPERATURE APPARATUS

Burrell Stallard, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York

Application May 5, 1930. Serial No. 449,703

7 Claims. (Cl. 171—327)



4. A piezo-electric crystal holder comprising a plurality of electrodes, a mass of Wood's metal in contact with one of said electrodes, a thermostat embedded in said Wood's metal, heating means thermally connected with said electrode and said Wood's metal, and means under control of the thermostat for regulating the heating of said heating means.

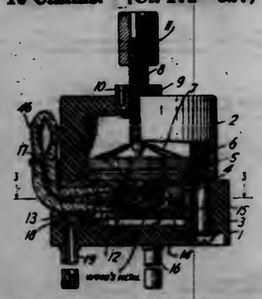
1,921,433

CONSTANT TEMPERATURE APPARATUS

Ole M. Hovgaard, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York

Application May 5, 1930. Serial No. 449,735

10 Claims. (Cl. 171—327)



2. A piezo-electric crystal holder comprising a hollow member, a mass of Wood's metal in said hollow member, and a thermostat and heating element embedded in said Wood's metal.

1,921,434

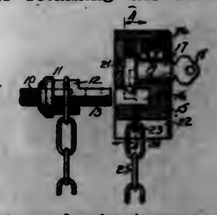
SPARE WHEEL LOCK

Elmer B. Stone, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut

Application May 4, 1928. Serial No. 275,023

1 Claim. (Cl. 70—99)

A lock for securing a spare wheel or rim to a support, said lock including a case having a recess within which a retaining nut is received, a flexible fastening member having one end adapted for attachment to the nut, key operated means for securing said lock case to said nut and for retaining the fastening member



thereon, said case having a groove, a pin extending from the outer surface of the case across said groove to receive and secure the opposite end of said fastening member, and a jacket inclosing said case and overlying the end of said pin to prevent access thereto.

1,921,435

PADLOCK

Elmer B. Stone, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut

Application December 5, 1930. Serial No. 500,222

3 Claims. (Cl. 70—108)



1. A padlock including a case, a shackle mounted for yielding movement within the case and having a recess with an upturned lip at the mouth of said recess, a locking bolt mounted for sole longitudinal reciprocating movement within the case and having a downturned lip forming a recess between said lip and the body of the bolt for reception of the lip on the shackle, the end of the bolt being receivable in the recess in the shackle, and means for operating said bolt.

1,921,436

POISE ATTACHMENT

Thomas H. Strachan, Dayton, Ohio, assignor to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey

Application September 17, 1930

Serial No. 482,462

2 Claims. (Cl. 265—49)



1. A poise for use in conjunction with a notched scale beam, comprising a weight having integral therewith a loop surrounding the beam and cooperating pivotally with one of the notches of the beam, and a resilient member secured at one end to the poise and extending through the loop between the weight and the beam, said resilient member being spaced from the beam a distance sufficient to limit transverse movement of the weight relative to the beam to a degree insufficient to permit the loop to be disengaged from its cooperating notch thereby preventing longitudinal movement of the poise on the beam, the free end of said resilient member being adapted to be directly manually operated to move said member away from the beam a distance sufficient to permit disengaging the loop from its coacting notch and moving the poise longitudinally of the beam.

1,921,437

ORNAMENT

Leo K. Stupell, New York, N. Y.

Application January 17, 1933. Serial No. 652,121

14 Claims. (Cl. 40—140)



1. An initial or the like and a holder therefor comprising in combination a frame, the inner edge of said frame having a bevel and an initial fitting said frame, the outer edge of said initial having a groove complementary to the bevel on the inner edge of said frame, said frame being elastic whereby said initial is insertable and firmly held in said frame without any exterior holding means by snapping same into position in said frame, said initial being entirely within the boundary of said frame.

1,921,438

CORD TAKE-UP STRUCTURE

Bernard J. Tamarin, Philadelphia, Pa.

Application October 9, 1928. Serial No. 311,377

5 Claims. (Cl. 242—107)



1. A cord take-up structure comprising a casing, a stub shaft removably supported by said casing, a hub member detachably mounted on said stub shaft, a reel rotatably mounted on said hub member, an operating spring for said reel having its ends connected respectively to the reel and to said hub member and a remote control device having a fixed relation with said hub member and including a group of braking elements capable of movement into and out of binding engagement with said reel.

1,921,439

VACUUM CLEANER HANDLE STRUCTURE

Bernard Jacques Tamarin, Philadelphia, Pa.

Application December 26, 1929. Serial No. 416,678

1 Claim. (Cl. 242—107)



In combination, a casing, a hub projecting laterally from the interior surface of the casing, a reel, a brake ring rotatably mounted on said hub and detachably engaged with said reel, a brake element encircling said ring several times and one end fixed to said casing, a lever having a central portion pivotally connected to the casing and one end fixed to the remaining end of the brake element, a remotely arranged push button and a flexible connection between the push button and the remaining end of said lever.

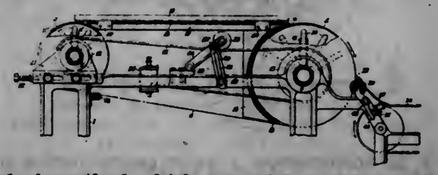
1,921,440

METHOD OF AND APPARATUS FOR SKINNING FISH

Harden F. Taylor, Scarsdale, N. Y., assignor to The Atlantic Coast Fisheries Company, New York, N. Y., a Corporation of Maine

Application October 30, 1930. Serial No. 492,133

19 Claims. (Cl. 17—2)



1. A method which comprises causing a fish fillet to tenaciously adhere to a support by substantially momentarily freezing only the skin surface of the fish fillet on a suitable support and severing the flesh from the skin while the fillet is so held.

1,921,441

ELECTRIC RESISTANCE DEVICE

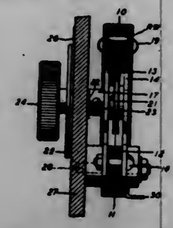
Bryce O. Templeton, Queens Village, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York

Application July 1, 1930. Serial No. 465,102

1 Claim. (Cl. 201—56)

In a resistance device, a toroidal core, a mounting block formed integrally therewith, the inner periphery of said core being substantially V-shaped, a resistance wire wound on said core, a pair of individually removable supports

mounted on said block, said supports having portions registering with similarly shaped portions in the sides of said block, and secured thereto, said block having a radially extending lug defining the space relation of said supports, a bushing rotatably mounted in said supports, a brush mounted on said bushing and formed at



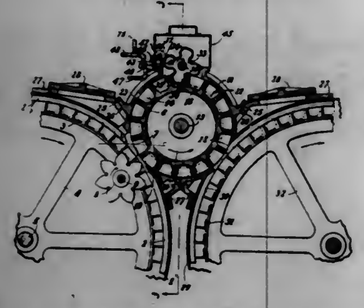
its free end in the shape of a loop extending in yieldable contacting relation with said wire at the intersecting point of the lines forming the V-shaped portion of said core, a wiper carried by said brush engaging one of said supports, a knob for rotating said brush, and stops formed integrally with said mounting block for limiting the movement of said brush.

1,921,442

COOKING AND COOLING APPARATUS

Albert R. Thompson, San Jose, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a Corporation of Delaware

Application September 10, 1930
Serial No. 481,039
31 Claims. (Cl. 198—232)



1. In combination, a valve casing having an inlet port and a discharge port, a rotary valve in said casing having pockets adapted to transfer articles from said inlet port to said discharge port, and means intermeshing with said pockets for detecting obstructed pockets which have passed said discharge port.

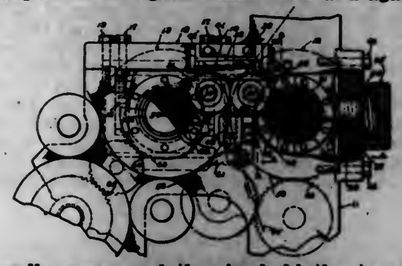
1,921,443

BEARING FOR ROTARY PRINTING MACHINES

John R. Tomlin, Brooklyn, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York; Irving Trust Company, Receiver

Application March 4, 1930. Serial No. 432,996
5 Claims. (Cl. 101—219)

1. In a rotary printing machine, a printing couple comprising a form cylinder and an impression cylinder, journals on the cylinders, bearings for the journals, roller ways on the cylinders concentric with their axes, and rollers arranged to bear against each other and against



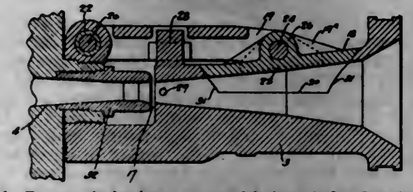
the roller ways and thereby hold the journals against the outer sides of the bearings.

1,921,444

INJECTOR

Charles H. True, Chicago, Ill., assignor to The Superheater Company, New York, N. Y.

Application January 29, 1929. Serial No. 335,969
10 Claims. (Cl. 103—277)



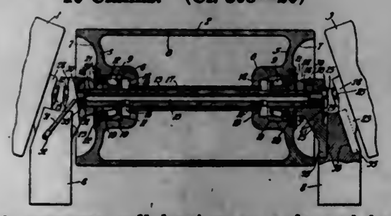
1. In an injector, a combining tube having a lateral opening therein, the perimeter of which comprises conical surfaces, and a closure for said opening having complementary conical surfaces adapted to seat against the walls of said port.

1,921,445

CONVEYER ROLL

George N. Van Derhoef, South Bend, Ind., assignor to Dodge Manufacturing Corporation, Mishawaka, Ind., a Corporation of Delaware

Original application June 22, 1927, Serial No. 200,566. Divided and this application May 31, 1929. Serial No. 367,357
10 Claims. (Cl. 308—20)



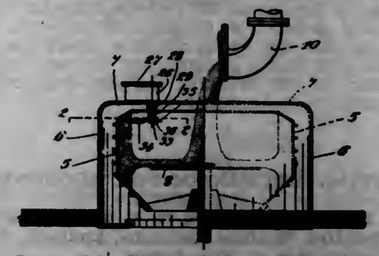
1. A conveyer roll having an axle and bearings thereon set inwardly from the ends of the roll, the axle ends having attachments providing depending angle arms engageable with and by which the axle ends may be removably supported by supports placed closely adjacent to the roll ends, said attachments embodying collars non-rotatably secured to and longitudinally adjustable on the axle ends and cooperating with the bearings for positioning and adjusting the same, and adjusting means screwed to the axle ends against said collars, said attachments adapted for close juxtaposition in back to back relation to like parts of other similar rolls when arranged in the relationship shown in the accompanying drawing.

1,921,446

AUTOMATIC CHARGING MEANS FOR CENTRIFUGAL EXTRACTORS

Nathaniel R. Andrews, Yonkers, and Jacob J. Neuman, New York, N. Y.

Application October 16, 1929. Serial No. 399,900
20 Claims. (Cl. 210—63)



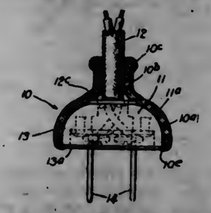
11. In combination with a centrifugal extractor having a rotary basket to receive the fill-mass and a charge control valve external of the basket; means for moving said valve from open to closed position when the fill-mass attains a predetermined wall thickness, said means including a movable member adapted to be directly engaged and actuated relative to the valve by the fill-mass material.

1,921,447

ACCESSORIES FOR ELECTRIC FITTINGS

Louis Barnett, Brooklyn, N. Y.

Application April 28, 1928. Serial No. 273,493
2 Claims. (Cl. 173—361)



1. In combination with a standard completely constructed detachable plug cap terminating portable conductor wires, a removable resilient armoring member of soft rubber or the life covering substantially the entire normally exposed surface of the plug cap, an extension of said member clampingly embracing a substantial length of the portions of the conductor wires extending from the plug cap, said extension terminating in a finger gripping end, said armoring member having a lip engaging said plug whereby said member serves as a strain relief means for said cord.

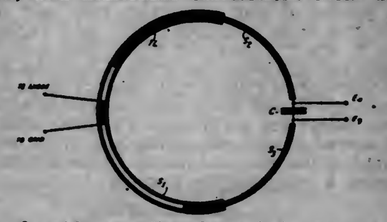
1,921,448

OSCILLATION CIRCUIT FOR SHORT-WAVE GENERATORS

Raoul Baranowsky, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany

Application September 5, 1930, Serial No. 479,849, and in Germany September 9, 1929
3 Claims. (Cl. 250—36)

3. In an oscillation circuit, a telescopic loop inductance in the form of a circle comprising two sections, one movable with respect to the other, a capacity element connected in substantially the middle of one of said sections and movable therewith, a vacuum tube having its grid and plate elements connected to said other section, and individual connections from both



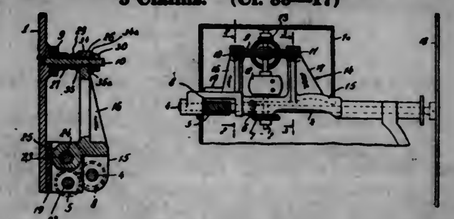
sides of said capacity element to sources of potential.

1,921,449

MOTION PICTURE PROJECTING MACHINE

Michael Berkowitz, New York, N. Y., assignor to United Research Corporation, Long Island City, N. Y., a Corporation of Delaware

Application August 5, 1930. Serial No. 473,177
5 Claims. (Cl. 88—17)



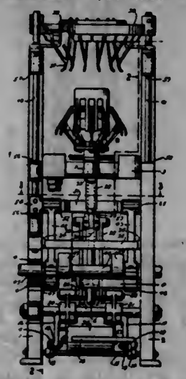
1. In a motion picture projecting machine having a frame and a stud projecting laterally from said frame, a shutter shaft, a bearing member within which said shaft is journaled, said bearing member being provided with a bracket arranged to receive the stud, means associated with said stud for adjusting the bracket longitudinally of the stud, a support fixedly attached to the frame, means for pivotally mounting said bearing member in said support, a gear carried by said frame, and a gear carried by said bracket and movable toward or away from said first-mentioned gear as said bracket is adjusted.

1,921,450

HAT STRETCHING MACHINE

Gustav S. Boesch, Danbury, Conn.

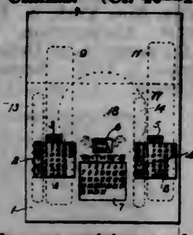
Application July 22, 1930. Serial No. 469,757
11 Claims. (Cl. 223—33)



1. In a machine for stretching hat bodies, a former on which the hat is held, said former

including an upper flange having expanding ribs projecting therefrom, means for adjusting the spread of said expanding ribs, said means including links associated with said expanding ribs, a lower flange for supporting said links, means for adjusting the vertical position of said last mentioned flange with respect to said first mentioned flange, and means associated with said lower flange for permitting a limited change in the spread of said expanding ribs when pressure is applied thereto, said last mentioned means including a compressible member.

1,921,451
CALENDAR
Jacob Brenner, Maplewood, N. J.
Application March 21, 1933. Serial No. 663,689
6 Claims. (Cl. 40—109)



1. A calendar comprising a sheet with openings therein, a second sheet attached to said first named sheet, a disc bearing the names of months revolubly mounted on one of said sheets, said second named sheet having slits therein, and strips, one of which bears the names of days of the week and the other bears the names of months, in said slits slidable along said openings.

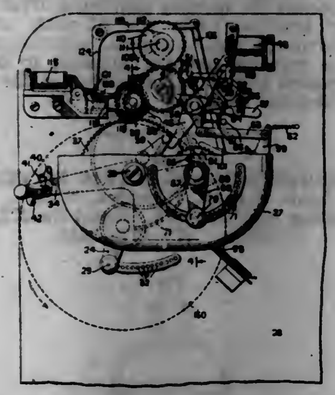
1,921,452
FIRE EXTINGUISHER
Wilhelm B. Bronander, Montclair, N. J.
Application June 14, 1930. Serial No. 461,141
6 Claims. (Cl. 169—26)



5. In combination, a fire extinguisher comprising a receptacle, a pump carried thereby, said pump including a piston and a piston rod therefor extending through the top of the receptacle and a handle on said rod, a support having a bracket engaging said handle, a casing in said receptacle having a pressure cartridge therein, means including a plunger for puncturing said cartridge, a spring actuated hammer mounted on said support and arranged to engage and actuate said plunger, and heat controlled means for holding said hammer against actuation.

6. In a fire extinguisher, a receptacle, a casing therein, a compressed charge cartridge in the casing, a discharge port in the casing communicating with the receptacle, an opening through the top of the casing for receiving the cartridge, a sealing member of ductile material over said opening, said seal being disposed above the discharge port, and a plunger over the seal for depressing but not breaking the seal and causing the cartridge to be punctured.

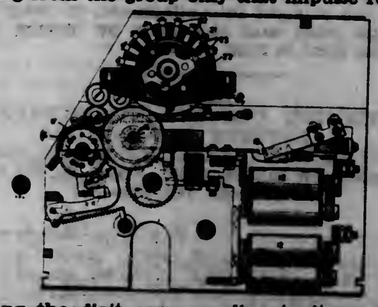
1,921,453
PRINTING MECHANISM FOR ACCOUNTING MACHINES
Fred M. Carroll, Yonkers, N. Y., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey
Application January 19, 1928. Serial No. 247,771
9 Claims. (Cl. 235—92)



1. In a machine of the class described, means for effecting the printing of items in one zone on a work sheet and a total of the items in another zone on said work sheet, but in alignment with the items, means for spacing the items that are printed in the item printed zone, means effective when a total is to be printed for automatically spacing the work sheet after printing the last item to an extent dependent upon the number of items that have been printed to cause the printing of the total in the total printing zone, and means for controlling the last named means for predetermining the total zone.

1,921,454
TOTAL TAKING MECHANISM
George F. Daly, Johnson City, N. Y., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey
Application June 11, 1929. Serial No. 369,965
14 Claims. (Cl. 235—92)

4. In a machine of the class described, an accumulator having a plurality of denominational order elements each movable to different positions to represent the several digits, recording mechanism for recording data from said accumulator, an emitter, common to all the elements of the accumulator for emitting a group of impulses consisting of a single impulse representative of each digit and means associated with each denominational order element for selecting from the group only that impulse repre-



senting the digit corresponding to its position for controlling the recording mechanism.

1,921,455
METHOD OF AND APPARATUS FOR TREATING SHEET RUBBER
Wallace W. De Laney, New Haven, Conn., assignor to The Seamless Rubber Company, New Haven, Conn.
Application January 16, 1931. Serial No. 509,110
13 Claims. (Cl. 154—33)



1. The method of ornamenting sheet rubber which comprises confining the unvulcanized material along lines which are parallel to each other and displacing the material between the lines in a direction which is generally transverse to such lines.

1,921,456
SHEET RUBBER PRODUCT
Wallace W. De Laney, New Haven, Conn., assignor to The Seamless Rubber Company Incorporated, New Haven, Conn.
Original application January 16, 1931, Serial No. 509,110. Divided and this application January 19, 1932, Serial No. 587,526, and in Germany March 11, 1931
5 Claims. (Cl. 41—24)



1. An elongated sheet of rubber having a multiplicity of parallel lines impressed on the sheet on the bias, the material of the sheet between the lines presenting a multiplicity of alternating protuberances and depressions, the depressions disposed in a plurality of series which run generally lengthwise of the sheet to form valleys therein.

1,921,457
VENTILATOR FITTING
Joseph R. Dickinson, Hampton, Va., assignor to Newport News Shipbuilding and Dry Dock Company, a Corporation of Virginia
Application December 2, 1931. Serial No. 578,704
2 Claims. (Cl. 98—41)

1. As an article of manufacture, a fitting for ventilation louvres, comprising a frame adapted to be applied to an opening in the wall of an overhead air conduit, a tripod having a plurality of angularly related legs extending downward from a central apex and shaped to permit detachable connection of the outer ends thereof with said frame, a central screw-thread-

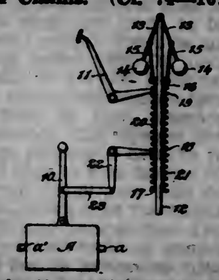


ed stud also extending from said apex into the plane of the ends of said legs, a widely tapering deflector designed to have its smaller end carried adjustably by said stud and to contact with said frame when the said parts are assembled and said deflector is in its inmost position on said stud.

1,921,458
MANUFACTURE OF BASIC DERIVATIVES OF ANTHRAQUINONE
George Holland Ellis and Henry Charles Olpin, Spondon, near Derby, England, assignors to Celanese Corporation of America, a Corporation of Delaware
No Drawing. Application April 19, 1929, Serial No. 356,596, and in Great Britain April 30, 1928
10 Claims. (Cl. 260—59)

1. Process for the manufacture of basic derivatives of anthraquinone, comprising amidating reduction products of hydroxy anthraquinones and oxidizing the amidated products by means of an aromatic nitro compound in the amidating liquor at a temperature not substantially exceeding the boiling point of alcohol.

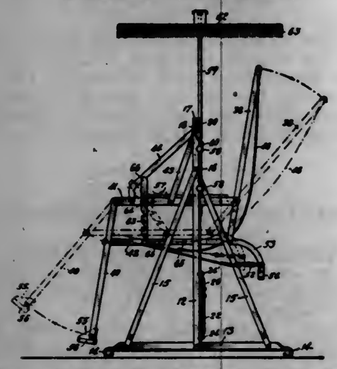
1,921,459
CONTROL MECHANISM FOR POWER TRANSMISSION GEARS
Richard Erban, Vienna, Austria, assignor to Erban Patents Corporation, a Corporation of New York
Application December 8, 1930, Serial No. 500,693, and in Austria January 9, 1929
4 Claims. (Cl. 74—107)



1. In combination with a variable speed transmission gear and an engine throttle element, a governor driven from an element of the gear and inclusive of a member reciprocal proportionately to variations in the speed of its driving element, an abutment on said governor member, a pair of collars slidable on said governor member, a spring interposed between said abutment and one of said collars, a second spring inter-

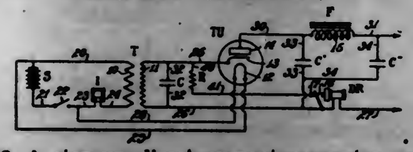
posed between said collars, an operative connection between said first mentioned collar and said gear whereby the gear ratio thereof is varied by movement of said first mentioned collar, and an operative connection between said throttle element and the second mentioned collar whereby the latter is moved toward the first mentioned collar by throttle opening movement of said throttle element.

1,921,460
GARDEN CHAIR
August Euring, Richmond Hill, N. Y.
Application May 16, 1932. Serial No. 611,461
2 Claims. (Cl. 155—67)



1. In a chair of the type which is adapted to assume different positions of inclination to provide a comfortable sitting or lying posture for the occupant of the chair, the combination of a seat supporting structure, a flexible seat member supported on said structure, a frame upon which said seat supporting structure is mounted for swinging movement comprising two standards and a spacing and bracing frame connecting said standards including a pair of links secured at their lower ends pivotally to said standards, a second pair of links each pivotally secured at one end thereof to one of said standards at a point spaced from the connection of said first links with said standard and pivotally connected at points adjacent the ends of the first mentioned links to said links, said pairs of links defining by their lengths, when brought into alignment with each other, the spacing of said standards, said first mentioned pair of links being provided at their free ends with angular lugs projecting at right angles therefrom, and said second pair of links being provided with recesses in the sides thereof at such distances from the pivotal connecting points of the links that the projecting lugs on said first mentioned links will engage such recesses when one of the first pair of links is brought into alignment with one of the second pair of said links and the second of said first mentioned pair of links is brought into alignment with the other of said second pair of links, said spacing and bracing frame including a bracing member comprising two link portions pivotally connected at one of their ends to the pairs of links spacing the standards from each other at the pivotal connecting points of said links, one of said link portions being pivotally connected at the other end thereof to the second link portion at a point spaced from the free end thereof, said second link portion being provided at such free end with an angular lug projecting at right angles therefrom and adapted to engage a recess in the side of said first mentioned link portion when the two link portions are brought into alignment, to brace the spacing links and standards by locking said spacing links in rigid position.

1,921,461
PROTECTING CURRENT-INTERRUPTER IN B BATTERY ELIMINATORS
William Walk Garstang, Indianapolis, Ind.
Application July 30, 1932. Serial No. 626,774
13 Claims. (Cl. 171—97)



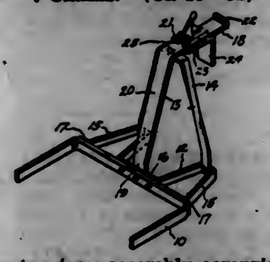
12. A step-up direct current converter comprising a transformer having a low voltage primary winding and a high voltage secondary winding, an input circuit comprising said primary winding and an interrupter, a rectifier having one terminal connected to said secondary winding, a filter connected to the other terminal of the rectifier and to said secondary winding, a relay having its coil connected to said secondary winding beyond the filter connection and a resistance approximating the normal output load bridged across the secondary winding through normally closed separable terminals of the relay between the secondary winding and the rectifier on one side and between the secondary winding and the relay on the other side.

1,921,462
SERVING TABLE
Earl S. Graham, Dallas, Tex., assignor to Inside Tray Company, a Corporation of Texas
Application August 20, 1932. Serial No. 629,571
8 Claims. (Cl. 45—51)



1. In a serving table, a frame, a tray mounted in the frame, boxes secured to one end of the frame, and hangers attached to the boxes.

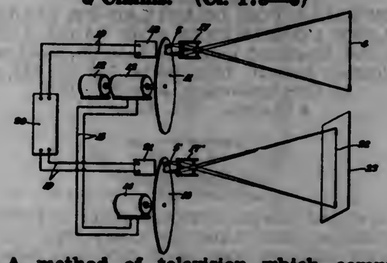
1,921,463
SERVING TRAY
Earl S. Graham, Dallas, Tex., assignor to Inside Tray Company, a Corporation of Texas
Application November 14, 1932
Serial No. 642,480
7 Claims. (Cl. 45—51)



1. A serving tray assembly comprising, a tray support for holding a tray in serving position,

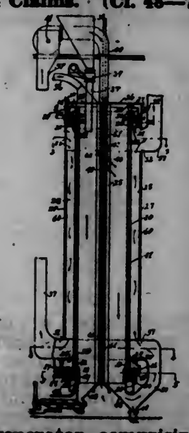
a hanger rigidly attached to said support and having a pair of spaced trunnions for engaging the inside of a vehicle body below its window sill, and a single narrow suspension element disposed between the trunnions and above the same for engaging on the window sill of a vehicle body, whereby the tray support may be slightly tilted and hang from a single suspension line on the window sill of a vehicle body a substantial distance below the same.

1,921,464
METHOD AND APPARATUS FOR THE RECORDING AND PROJECTION OF PICTURES, IMAGES, AND THE LIKE
John Henry Owen Harries, Frinton-on-Sea, England
Application December 1, 1930, Serial No. 499,325, and in Great Britain December 2, 1929
6 Claims. (Cl. 178—6)



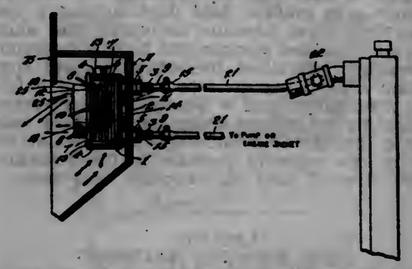
1. A method of television which comprises producing an image of an object with a portion of the image differently proportioned to the object than the remainder of the image, translating said image into electrical impulses, transmitting said electrical impulses, receiving said impulses and translating the same to form a received image, and producing from the received image a visible image uniformly proportional to said object.

1,921,465
GAS GENERATOR
Herman C. Heaton, Chicago, Ill.
Application March 9, 1928. Serial No. 260,285
14 Claims. (Cl. 48—77)



11. A gas generator comprising a vertically disposed rotary retort, a stationary partition in said retort, means for maintaining combustion on one side of said partition, means to introduce material to be distilled into said retort on the other side of said partition, a casing surrounding said retort and spaced therefrom, heat absorbing vanes on the outside of said retort extending across the space between it and said casing, and means for causing hot products of combustion to come into contact with said vanes during a part of their travel and air to be heated to come into contact with them during another part of their travel.

1,921,466
AUTOMOBILE HEATER
Joseph Helle, East Orange, N. J.
Application May 28, 1932. Serial No. 614,245
8 Claims. (Cl. 257—137)



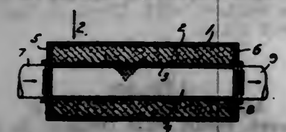
2. An automobile heater comprising a U-shaped bracket having a pair of bushings projecting outwardly from the base thereof to enter openings in a support, an electric motor separably mounted on said base portion of said bracket and having a fan connected to the shaft of the motor, an annular radiator for circulating liquid disposed between the arms of said bracket surrounding said motor and having inlet and outlet nipples removably passing through said bushings, and an apertured face plate separably secured upon the arms of said bracket and abutting the end of said radiator to clamp the radiator between said face plate and said base portion of the bracket.

1,921,467
ADJUSTABLE GARMENT CUFF
William Hymes, Kingston, N. Y.
Application November 19, 1932
Serial No. 643,253
5 Claims. (Cl. 2—123)



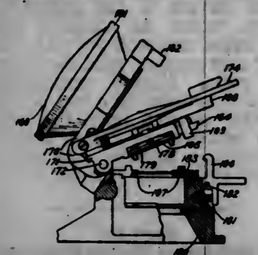
1. An adjustable tubular element and cuff for shirt sleeves, trouser legs and the like, comprising a tubular element associated with the cuff, the junction between these parts including a pleat and stitches holding said pleat closed, a pair of adjacent flexible stiff straps between the layers of said pleat, the longitudinal central areas of said strips being bowed away from each other, and the edges being in contact with each other except for the extreme elements thereof, arranged flared away to produce a guiding passage for the insertion of a cutting implement to cut said stitches.

1,921,468
MUFFLER
William A. Jack, 3d, Madison, Wis., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis., a Corporation of Delaware
Application November 8, 1929. Serial No. 405,658
10 Claims. (Cl. 137—100)



1. In a muffler for a pulsating, noise-producing gas, a duct for the passage of said gas through said muffler, said duct having a wall comprising a gas-pressure absorbing and sound absorbing, molded composition having intercommunicating interstices therethrough, said composition comprising discrete particles of exfoliated vermiculite and a binder, said intercommunicating interstices being open to said gases passing through said duct, said composition not causing any material increase in the resistance to the flow of said gas through said duct.

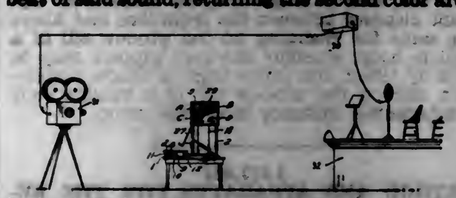
1,921,469
FILM EDITING MACHINE
John J. Kuhn, Elizabeth, and Roy V. Terry, Montclair, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application March 1, 1930. Serial No. 432,379
6 Claims. (Cl. 88—14)



1. In a film editing machine, a hinging unit having a single hinge pin, a film viewing lens, a lens mounting hinged to said pin, a mask for said lens having an aperture through which the film may be edited also hinged to said pin, a film guide, a pad for holding said film firmly in said guide, means whereby said lens, mask and pad may be variably positioned with relation to said guide and film, means including said hinging unit whereby the lens and mounting may be raised away from said mask for marking a picture as framed by said mask and means including said hinging unit whereby said lens mounting and mask may be raised as a unit away from said guide and film.

1,921,470
METHOD OF VISUALLY RECORDING SOUND BEATS
George Lane, New Haven, Conn.
Application April 26, 1930. Serial No. 447,822
3 Claims. (Cl. 88—16.2)

1. A method of visually recording sound beats which comprises producing and recording sound moving a color area from one position to another over a background of contrasting color to represent one beat of said sound, returning the color area to its initial position, moving another color area from one position to another over a background of contrasting color to represent a second beat of said sound, returning the second color area



to its initial position, and photographing both color areas and background before and after movement the sound being recorded and the areas being photographed synchronously.

1,921,471
RECEPTACLE FOR GRANULAR OR PULVERULENT CONDIMENTS FOR TABLE USE
Charles Reginald Langton, London, England
Application July 16, 1932, Serial No. 622,952, and in Czechoslovakia July 22, 1931
4 Claims. (Cl. 65—45)



4. A closed receptacle for granular or pulverulent condiments for table use, comprising an upstanding wall, an opening in said wall near its upper end, and an inverted trough which extends outwardly from that wall and is arranged above the opening so as to constitute, when the receptacle is inverted, a chute leading to said opening.

1,921,472
PRODUCTION TESTER
George A. Macready, Los Angeles, Calif.
Application September 12, 1930
Serial No. 481,439
9 Claims. (Cl. 166—1)



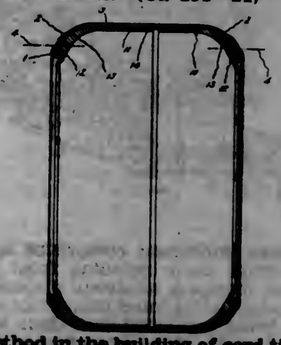
1. In a production tester; a tubular chamber member, a tube projecting into said chamber and connected thereto by a rotatable joint, a valve in said chamber operable by said tube, co-operating shoulders on said joint permitting a limited length of longitudinal travel to operate said valve, a notched sleeve threadedly mounted on said tube, a projection from said chamber member engaging the notch in said sleeve whereby said sleeve can be screwed longitudinally along said tube, said sleeve engaging said chamber at one end of its screw travel to lock said swivel against longitudinal travel and at the opposite end to unscrew free from said projection.

1,921,473
MANUFACTURE OF PNEUMATIC TIRE CASINGS
George L. Mather, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts
Application February 2, 1928. Serial No. 251,343
Renewed December 6, 1932
6 Claims. (Cl. 154—10)



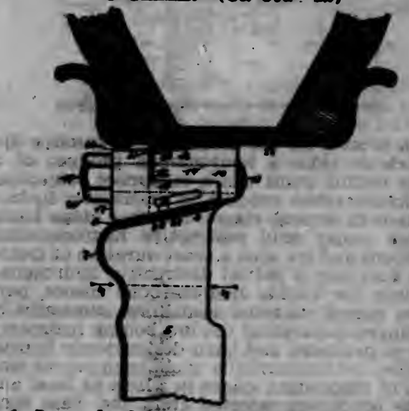
1. A tire building former comprising an annular member, bead locating portions adjacent the edges thereof, side portions curving inwardly and upwardly from the bead locating portions a sufficient distance to shape the major portion of the sidewall of the tire and a flat crown portion connecting said curved portions, said flat portion being of less diameter than the final crown diameter of the tire to be built thereon.

1,921,474
MANUFACTURE OF PNEUMATIC TIRE CASINGS
George L. Mather, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts
Original application February 2, 1928, Serial No. 251,342. Divided and this application March 11, 1929, Serial No. 346,004. Renewed December 6, 1932
5 Claims. (Cl. 154—14)



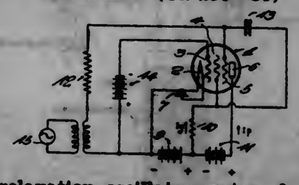
2. A method in the building of cord tires which consists in assembling rubberized cord layers and bead members into annular form and during the assembly shaping said layers into partial tire form in an upwardly and inwardly inclined position from the hinge of the beads to points defining a flat central portion, the upwardly and inwardly inclined portion comprising a major portion of the tire sidewall and in finishing said carcass formation by forcing the flat central portion and the partially formed sidewall portions to tire form as a unit and simultaneously swinging the inclined sidewall portions into finished position by a hinging action approximately along the lines where said sidewall portions join the central flat portion.

1,921,475
WHEEL CONSTRUCTION
Philip M. Miller, Brooklyn, N. Y., assignor to Miller Devices Inc., New York, N. Y., a Corporation of New York
Application July 3, 1929. Serial No. 375,726
3 Claims. (Cl. 301—12)



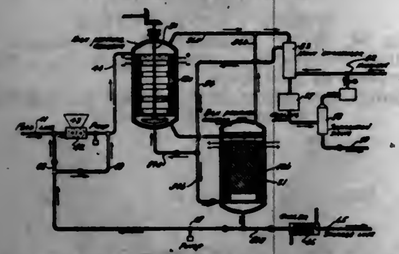
1. In a wheel for motor vehicles, the combination with a rim, of a spider construction having a free spoke end formed with inclined bearing faces, a locking bolt extending through and projecting from said spoke end, a rim-clamping device for the spoke end adapted to be engaged by said bolt for locking the rim on said end, said device being formed with inclined bearing faces adapted to seat on the bearing faces of the spoke end and slotted side portions which straddle said end, and pins fixed in the end of said spoke and projecting into the slots formed in said side portions.

1,921,476
RELAXATION OSCILLATOR AND AMPLIFIER SYSTEM
Robert M. Page, Washington, D. C.
Application July 12, 1929. Serial No. 378,102
13 Claims. (Cl. 250—36)



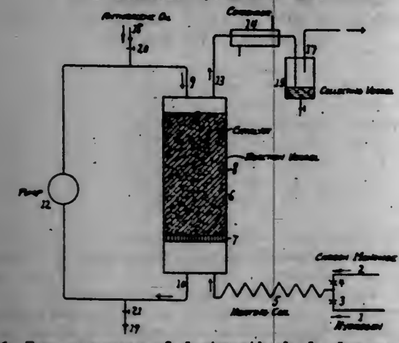
1. A relaxation oscillator system for generating electrical oscillations comprising in combination a thermionic tube having a cathode, an anode, an inner grid, a central grid and an outer grid, a circuit arrangement including impedance elements interconnecting said cathode, anode and said central grid and outer grid for the generation of said oscillations and means for supplying a source of biasing potential to said inner grid electrode to prevent said tube from operating at the point of saturation.

1,921,477
PRODUCTION OF VALUABLE HYDROCARBONS
Mathias Pier, Heidelberg, Germany, assignor, by mesne assignments, to Standard-I. G. Company, Linden, N. J., a Corporation of Delaware
Application July 25, 1929, Serial No. 381,072, and in Germany November 24, 1927
6 Claims. (Cl. 196—53)



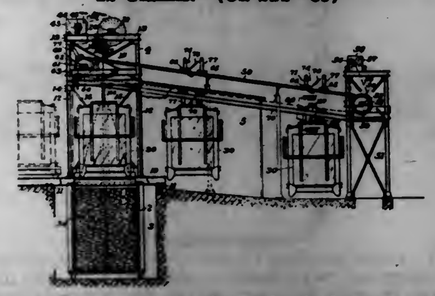
1. A process for the production of gasoline hydrocarbons from a hydrocarbon product of a higher boiling point which comprises subjecting said hydrocarbon product to destructive hydrogenation in several stages, the first stage being effected under mild destructive hydrogenation conditions and for such a short duration of treatment that only a partial destructive hydrogenation into low boiling hydrocarbons ensues, part of the parent material remaining substantially unchanged, separating the low boiling hydrocarbons so produced and then destructively hydrogenating the substantially unchanged parent material in subsequent stages in which at least one of the conditions selected from the class consisting of temperature, pressure, partial hydrogen pressure, catalyst and time of contact of the reacting materials is more rigorous than in the first stage in order to effect complete conversion of the parent material into valuable low boiling end products.

1,921,478
PRODUCTION OF VALUABLE LIQUID HYDROCARBONS
Mathias Pier, Heidelberg, Germany, assignor, by mesne assignments, to Standard-I. G. Company, Linden, N. J., a Corporation of Delaware
Application August 8, 1929, Serial No. 384,480, and in Germany September 4, 1928
4 Claims. (Cl. 196—53)



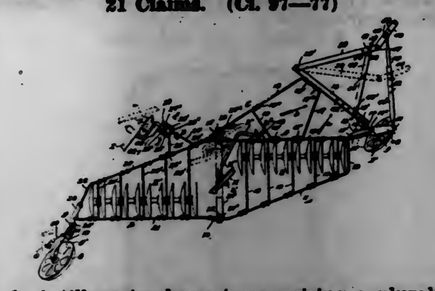
1. In a process of destructively hydrogenating fluid hydrocarbons in the presence of a catalyst immune to sulphur poisoning at a temperature of 300 to 700° C., a pressure of at least 20 atmospheres with hydrogen, which hydrocarbons under the conditions of the reaction form high molecular weight substances injurious to the catalyst, said hydrocarbons being initially free from large quantities of said injurious substances, the step of preventing deposition of said injurious substances on the catalyst by effecting the catalytic reaction in the presence of sufficient amounts of a high boiling solvent of aromatic character to continually dissolve said injurious substances and retain said substances in solution.

1,921,479
APPARATUS FOR WASHING SHEET GLASS
Lonnie J. Pierce, Pittsburgh, Pa., assignor to American Window Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania
Application October 9, 1931. Serial No. 567,821
12 Claims. (Cl. 214—89)



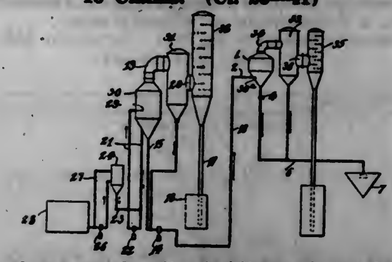
1. Apparatus for washing sheet glass comprising a tank, a platform normally at substantially floor level above the tank, means for lowering the platform into the tank and for automatically raising the same therefrom after a predetermined dwell therein to a position above the first mentioned position and for automatically lowering the platform to the normal position after a predetermined dwell at the uppermost position.

1,921,480
TILLAGE IMPLEMENT
Charles T. Ray, Louisville, Ky., assignor to B. F. Avery & Sons, Louisville, Ky., a Corporation of Kentucky
Application August 31, 1928. Serial No. 303,247
21 Claims. (Cl. 97—77)



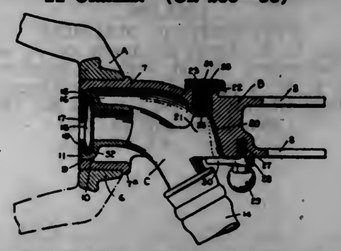
1. A tillage implement comprising a plurality of frame units, each including front and rear longitudinal members relatively disposed to give it greater width at its inner than at its outer end, said units being positioned with their wider ends confronting each other, substantially horizontal pivots at the said wider ends of said units and about which the units have up or down pivotal movement relatively to each other, soil tilling means respectively carried by said units, and supporting means for the implement, including ground engaging supporting wheels respectively connected to the outer ends of the units.

1,921,481
PROCESS FOR RECOVERING POTASH SALTS FROM LIQUORS CONTAINING BORAX
Charles F. Ritchie, William A. Gale, and William H. Allen, Trona, Calif., assignors to American Potash & Chemical Corporation, Trona, Calif., a Corporation of Delaware
Application July 16, 1929. Serial No. 378,745
16 Claims. (Cl. 23—41)



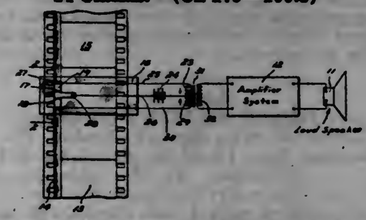
1. A process of cooling hot liquors to precipitate one of two constituents which exceed their saturation value on cooling, one of which has a tendency toward supersaturation, which comprises rapidly cooling the liquors beyond the point of saturation with respect to both by evaporation under reduced pressure.

1,921,482
AUTOMATIC TRAIN PIPE CONNECTER
Joseph Robinson, New York, N. Y.
Application April 24, 1929, Serial No. 357,853
Renewed June 4, 1932
11 Claims. (Cl. 285—58)



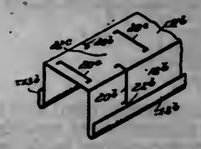
1. In combination, an automatic train pipe connecter head having a hollow shank, a conduit mounted in said shank, and means for permitting removal of said conduit while said head is coupled to a companion head, said means including co-operating parts on said shank and said conduit, a latch engaging one of said parts to lock the conduit in said hollow shank and resilient means acting against said conduit to increase the locking effect of said latch.

1,921,483
PHOTOELECTRIC CELL
John H. Rouse, Los Angeles, Calif.
Application November 25, 1930
Serial No. 498,063
14 Claims. (Cl. 179—100.3)



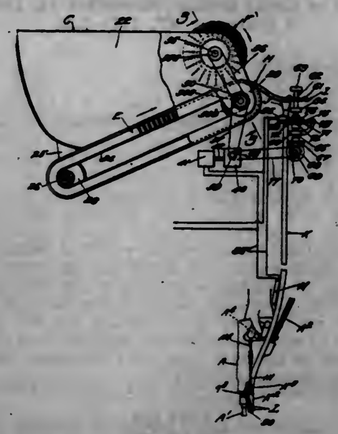
1. In a system for reproducing sound, a plurality of parallel spaced tenuous selenium elements, and means for successively varying the illumination of said elements in accordance with a common sound record.

1,921,484
WINDOW CHANNEL
Charles P. Schlegel, Rochester, N. Y., assignor to The Schlegel Manufacturing Company, Rochester, N. Y., a Corporation of New York
Application March 5, 1932. Serial No. 596,946
3 Claims. (Cl. 296—44.5)



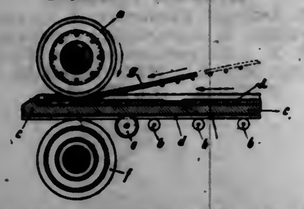
1. A window channel comprising a channel member of substantially rigid sheet material having a bottom and side walls, said bottom having a plurality of transverse slots, said sides having transverse slots intermediate the planes of the slots on said bottom, said slots providing a means for weakening said member to permit the latter to be flexed to vary the curvature thereof, and a cushioning lining for said member.

1,921,485
FEEDER FOR PORTABLE TOOLS
Earl Seger, Detroit, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan
Application September 18, 1930
Serial No. 482,800
10 Claims. (Cl. 10—162)



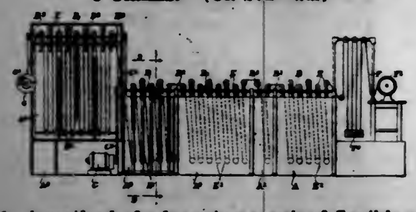
1. A device for feeding parts to a portable power operated tool having a working head, in combination, a supply hopper for parts to be delivered to the tool, a chute for receiving the parts from said hopper, a conduit connecting the chute and tool for feeding parts to the tool, means interposed between the chute and conduit for selecting and transferring the parts from the chute to said conduit, means located within the conduit for starting and stopping the selector to regulate the supply of parts delivered to said tool, and means shiftable into and out of register with the lower end of said conduit for receiving and transferring the parts from the conduit to the working tool head.

1,921,486
APPARATUS FOR PRODUCING PROFILE METALS
Hugo Seiferth, Dusseldorf-Oberkassel, Germany
Application May 26, 1930, Serial No. 455,835, and in Germany June 27, 1929
1 Claim. (Cl. 80—19)



A device for producing rolled iron bars provided with transverse projections of considerable height, comprising a reciprocating table possessing recesses corresponding to the desired transverse projections, a pressure roll adapted to exert pressure on profile metal placed between the roll and the table, a lower pressure roll beneath the reciprocating table for resisting the pressure of the upper roll when the latter is producing the profile in the profile metal, means for feeding the blanks between the upper roll and the table in inclined position, whereby said blank will be stretched towards the rear of the working position and practically without friction.

1,921,487
METHOD OF AND APPARATUS FOR FEEDING WEBS OR STRIPS
Kenneth Stuart Smith, West Wimbledon, England, assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York
Application September 24, 1930, Serial No. 484,222, and in Great Britain November 13, 1929.
6 Claims. (Cl. 271—2.2)



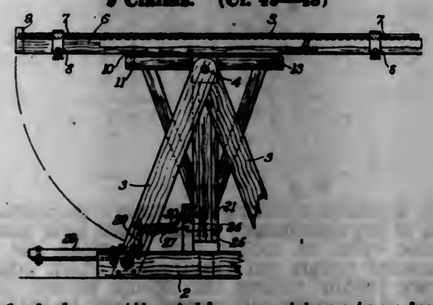
1. A method of advancing a web of flexible material which comprises forming the web into a plurality of loops, alternately extending and shortening alternate loops of the web with respect to each other and winding up one end of the web at a definite tension sufficient to take up the slack in the last loop only, whereby the web is intermittently advanced.

1,921,488
BEARING
Thomas Noah Smith, San Antonio, Tex.
Application September 3, 1932. Serial No. 631,699
2 Claims. (Cl. 308—179)



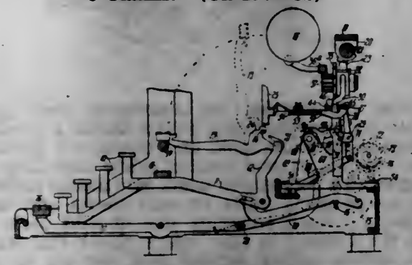
1. A bearing of the character set forth comprising a plurality of bearing elements and a raceway surrounding said elements, said raceway being divided diametrically and having interengaging edges to align the halves of said raceway longitudinally and transversely.

1,921,489
CUTTING TABLE
Edward J. Stein, Belle Vernon, Pa., assignor to American Window Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania
Application February 18, 1931. Serial No. 516,700
9 Claims. (Cl. 49—48)



1. A glass cutting table comprising a top adapted to support a glass sheet during cutting thereof, a supporting structure therefor, means whereby the top may be revolved about an axis substantially perpendicular thereto, and means whereby the entire top may be revolved about a substantially horizontal axis.

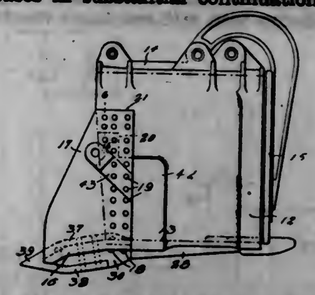
1,921,490
TYPEWRITING MACHINE
Burnham C. Stickney, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware
Application May 27, 1927, Serial No. 194,591
Renewed April 24, 1931
6 Claims. (Cl. 197—82)



1. In a typewriting machine and in an escapement-mechanism having a dog-rocker connected to be vibrated by the down stroke of the keys in typing, a power-driven rotary driver, and a rocker-controlled pallet having spaced-off members to co-operate with the driver, one member including a stop-face operative to release and arrest the driver, and the other member including an anti-friction roll to be displaced by the driver to forcibly restore the rocker for a letter-spacing movement.

1,921,491
POWER SHOVEL DIPPER
Lesher W. Van Buskirk, Easton, Pa.
Application June 25, 1930. Serial No. 463,715
9 Claims. (Cl. 37—141)

5. In an improved dipper construction, a dipper body formed with a wall having ribs on the exterior thereof, and a renewable lip secured to the outside of said body and having integral tooth bases in substantial continuation of and

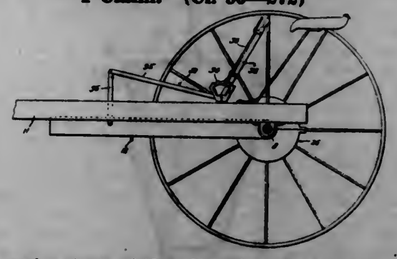


abutting said ribs whereby digging stress is transmitted to the ribs.

1,921,492
ELECTROLYTIC PROCESS FOR SIMULTANEOUSLY BLEACHING AND REMOVING METALLIC IMPURITIES FROM CELLULOSE ESTERS
Charles S. Webber and Cyril J. Staud, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York
No Drawing. Application July 19, 1929
Serial No. 379,568
19 Claims. (Cl. 204—1)

2. A process for simultaneously bleaching and removing the impurities from cellulose acetate, which comprises subjecting a conducting solution containing a cellulose acetate to electrolysis.

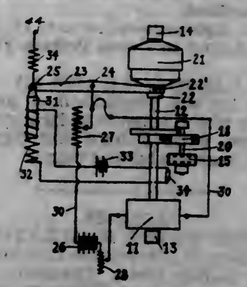
1,921,493
CUTTER BAR OPERATING MEANS
John F. Wilcoxson, Vernal, Utah
Application June 11, 1930. Serial No. 460,411
Renewed October 20, 1932
1 Claim. (Cl. 56—272)



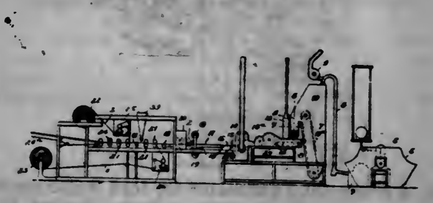
In a structure of the class described, in combination, an axle, ground engaging and traction wheels associated with said axle, a disc mounted on said axle, clutch means for said disc, a lubricant containing casing for said disc, the disc being provided with a peripheral zig-zag groove, a frame rockably mounted on said axle, a lever pivotally mounted on said frame, a conical roller at the rear end portion of said lever receivable in said groove, cutter bar mechanisms, and an operating connection between said mechanisms and the forward end of said lever.

1,921,494
METHOD OF PRODUCING AUDIBLE PICTURES
Ernest Wildhaber, Brooklyn, N. Y.
Application April 21, 1927. Serial No. 185,514
14 Claims. (Cl. 88—16.2)

2. In a device for producing audible pictures, a picture carrier, a sound record, means for reproducing pictures and sound at a constant speed ratio, means for jointly changing the speed of reproduction of said pictures and sound so as to leave said ratio unaffected, an element containing marks for governing said speed of reproduction, and an operative connection between said marks and said means for changing the speed of reproduction.



1,921,495
MACHINE FOR MAKING BATS
Otto R. Winter, Cincinnati, Ohio, assignor to The Upson Company, Lockport, N. Y., a Corporation of New York
Application January 22, 1930. Serial No. 422,684
6 Claims. (Cl. 154—29)



1. In a bat making machine, the combination with bat forming mechanism, of a plurality of laterally spaced belts for carrying a bat forwardly from said forming mechanism, and sewing mechanism, for sewing through said bat in the space between said belts, and substantially perpendicular to the plane of said bat.

1,921,496
PRODUCTION OF BENZANTHRONE DERIVATIVES
Ian Bleham Anderson, Robert Fraser Thomson, and John Thomas, Grangemouth, Scotland, assignors to Scottish Dyes, Limited, Grangemouth, Scotland
No Drawing. Application June 18, 1928, Serial No. 286,483, and in Great Britain June 24, 1927
4 Claims. (Cl. 260—61)

1. The process for the production of iso-dibenzanthrone derivatives which consists in heating together to a temperature between about 80° C. and 140° C. a body selected from the group consisting of—(a) benzanthrone, (b) 2: 2'-dibenzanthronyl, with an alcoholic alkali in the presence of a liquid inert with respect to the selected starting material and to alcoholic alkali.

1,921,497

PRODUCTION OF SULPHURIC ANHYDRIDE COMPOUNDS OF PYRIDINE

Ronald Sidney Barnes, John Edmund Guy Harris, and John Thomas, Grangemouth, Scotland, assignors to Scottish Dyes, Limited, Grangemouth, Scotland

No Drawing. Application January 16, 1929, Serial No. 333,018, and in Great Britain February 16, 1928

1 Claim. (Cl. 260—42)

A process for the production of pyridine sulphur trioxide which consists in heating an alkali-forming metal pyrosulphate and pyridine to a temperature near the boiling point.

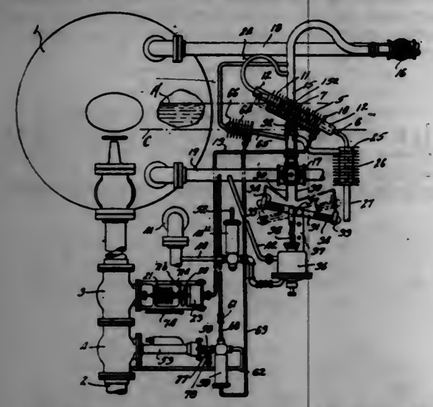
1,921,498

FEED WATER REGULATOR

Joseph M. Barrett, Cleveland Heights, Ohio, assignor to Bailey Meter Company, Cleveland, Ohio, a Corporation of Delaware

Application August 30, 1928. Serial No. 302,967

27 Claims. (Cl. 122—451.2)



1. A controlling generator for feed water regulating systems, comprising a pipe adapted for connection to the steam and water spaces of a boiler, and a trapped generating chamber member associated in heat conducting relation therewith, said pipe at its lower end including a hollow well member communicating at its upper end with the water space of the boiler, said pipe communicating with said well near to the bottom thereof, and said well being provided with external heat radiating members.

26. The method of controlling a vapor-generator in which it is desired to maintain a predetermined liquid level for all rates of generator output, which includes establishing a predetermined fictitious liquid level for the generator for each rate of vapor outflow, and utilizing the fictitious liquid level to maintain rate of liquid inflow in substantial harmony with rate of vapor outflow.

1,921,499

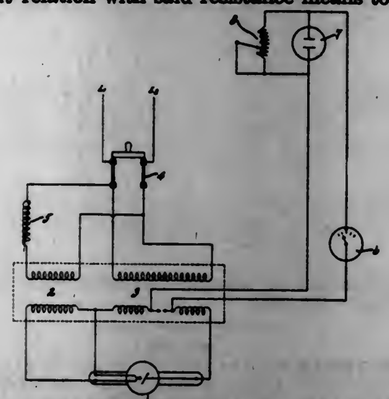
X-RAY APPARATUS

Francis W. Bishop, Rochester, N. Y., assignor to Waite & Bartlett X-Ray Manufacturing Company, Cleveland, Ohio, a Corporation of New York

Application February 4, 1932. Serial No. 590,893

1 Claim. (Cl. 250—34)

In combination with an X-ray tube and its operating means including a high tension circuit, variable resistance means arranged in said circuit to provide an adjustable voltage drop in its portion thereof, and a neon tube arranged in shunt relation with said resistance means to indicate by illumination X-ray tube currents exceeding a predetermined value, said current value being adjustable by adjustment of said resistance means.



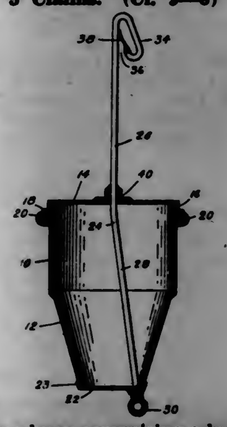
1,921,500

MOORING BUOY

Preble W. Blake, Newton, Mass., assignor to Harmon P. Elliott, Watertown, Mass.

Application May 28, 1932. Serial No. 614,157

5 Claims. (Cl. 9—8)



1. A mooring buoy comprising a buoyant member having a spindle which upstands from the middle of the buoy and has a connection for a mooring rope above the buoy, and a connection for an anchor cable at the bottom of the buoy at one side of the middle thereof.

1,921,501

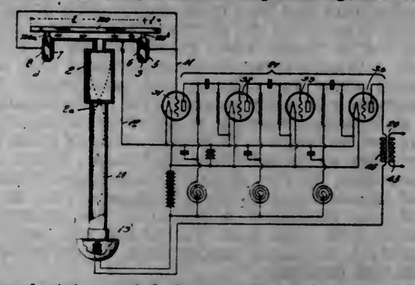
OSCILLATION GENERATOR

Ward E. Bower, Washington, D. C.

Application July 24, 1930. Serial No. 470,447

18 Claims. (Cl. 250—36)

1. A generator of electrical oscillations comprising a piezoelectric element, means for supporting said piezoelectric crystal element for vibratory movement, an amplification system including an input circuit and an output circuit, connections between said piezoelectric element and said input circuit, an electromagnetic sound reproducer connected in said output circuit, and means for acoustically coupling said electromagnetic sound reproducer to said piezoelectric element for applying acoustic impulses against said piezoelectric crystal element in synchronism with the electrical impulses generated by said piezoelectric element for reinforcing the vibrations of said piezoelectric crystal at constant frequency.



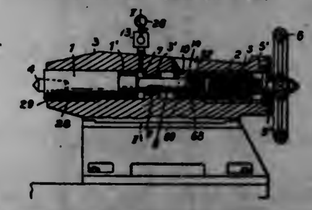
1,921,502

PUPPET HEAD

Karl Friedrich Brill, Sterkrade, Germany

Application March 24, 1930, Serial No. 438,558, and in Germany March 27, 1929

10 Claims. (Cl. 82—31)



1. A puppet head, comprising in combination a casing having a central longitudinal bore, a two part dead centre carrier in said casing composed of a front part and a rear part longitudinally shiftable in said casing, an extended axle extending towards the interior of said casing and having a screw thread, a dead centre pin carried in the front end of said carrier part the rear part of said carrier having a screw thread engaging the screw thread of said extended axle a wheel on the end of said casing adapted to rotate said extended axle and shift said rear carrier part in said casing, a pressure liquid chamber at the rear end of said front carrier part adapted to act on the rear end of said front carrier part, a coupling element connecting said front and rear carrier parts with play extending plunger like into said chamber adapted to transmit the movement of said rear carrier part imparted by said extended axle to said front carrier part and to press said dead centre pin into the work, and a device communicating with said chamber adapted to allow the automatic yielding and returning of the liquid in said pressure chamber and consequently a displacement of said front carrier with said dead centre pin according to the alterations in length of the work.

1,921,503

DRILLING APPARATUS

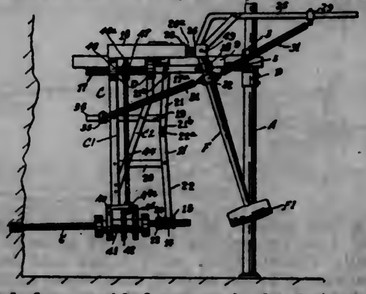
John M. Calderwood, Salt Lake City, Utah

Application September 22, 1928

Serial No. 307,582

2 Claims. (Cl. 255—41)

1. In a device of the class described the combination of a drill supporting framework having a drill carrying bearing suspended therefrom; a drill passed therethrough; clamps to hold the drill from turning in a rotatable member, said member being carried in said framework bearing; a ring gear formed around said member; a hammer suspended from said framework; means connected with said hammer to rotate said rotatable member with each stroke of the hammer; a drill holding socket carried on the drill backwardly of the rotatable member; a lever, pivotally supported from said framework, having one end clamped to said socket; another lever secured to the free end of the first mentioned lever and also supported from said framework, said second lever actuated by the movement of the hammer handle; springs attached to the handle and framework to aid in actuating said hammer; and a column to which the entire framework is pivotally secured.



1,921,504

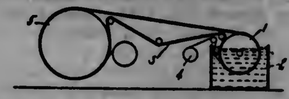
COMPOSITE WEB AND METHOD OF MAKING THE SAME

Henry Albert Chase and Harold Ray Titus, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a Corporation of Maine

Application April 27, 1928, Serial No. 273,299

Renewed September 10, 1932

9 Claims. (Cl. 92—41)



1. A method of making an absorbent reinforced pulp web, which comprises passing a fabric of the nature of cheesecloth over a moving foraminous backing, felting pulp fibers on and into the fabric, and drying the resulting web while maintained in substantially uncompacted condition, thereby keeping the felted bond between the pulp fibers and fabric undisturbed.

7. An article of manufacture consisting of a web of pulp reinforced by an open, loosely woven textile fabric of the nature of cheesecloth, the pulp fibers having been deposited and felted on and into the fabric from aqueous suspension and having been dried while maintained in substantially the same uncompacted condition and bonded relation with the fabric as deposited from aqueous suspension.

1,921,505

LOW APPARENT DENSITY SODIUM CARBONATE

Heinz H. Chesny, Los Angeles, Calif.

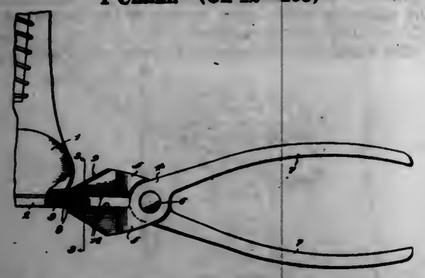
No Drawing. Application January 21, 1929

Serial No. 333,984

2 Claims. (Cl. 22—63)

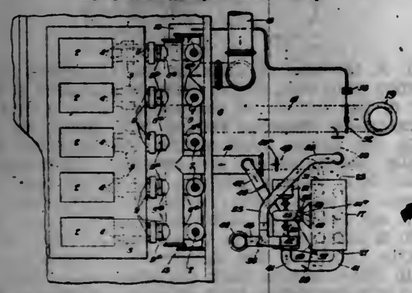
1. As a new article of manufacture, sodium carbonate having an apparent density of between 0.38 and 0.52.

1,921,506
SHOEMAKER'S TOOL
Nicholas Caletta, Elmira, N. Y.
Application September 28, 1931
Serial No. 565,634
1 Claim. (Cl. 12—103)



As a new article of manufacture, a shoe repairing tool comprising a pair of pivoted jaws normally spaced from each other and having comparatively broad smooth inner faces arranged in substantially parallel relation throughout their length when in working position, each jaw being provided with an abruptly tapering forward end upon its outer face intersecting the front end of the inner face of the jaw to form a thin edge at the front of the jaw, the side faces of each jaw flaring outwardly toward the outer end of the jaw to provide a wide gripping portion for each jaw, the upper and lower edges of each side face of each jaw being beveled to facilitate the free transverse sliding movement of the jaws longitudinally over the welt and sole of a shoe and prevent the marking of the sole and welt and facilitate smooth pressing of the welt and sole together while gluing the sole in place.

1,921,507
HEATING FURNACE
Albert L. Culbertson, Mount Lebanon, Pa.
Application March 26, 1930. Serial No. 439,051
13 Claims. (Cl. 263—17)



1. A furnace of the character described comprising a plurality of vertical independent pits, a single heat exchanger, a fuel manifold communicating with each of said pits, an air manifold communicating with each of said pits, a waste gas manifold communicating with each of said pits, means for controlling the air and fuel flow to each of said pits, and means for opening and shutting off the communication of said waste gas manifold with each of said pits, a main stack, a stack flue for conducting the hot waste gases from said waste gas manifold to said stack, a branch flue communicating with said heat exchanger and said stack flue for supplying hot waste gases to said heat exchanger, means for controlling the flow of hot waste gases to said heat exchanger, a cool waste gas stack, a conduit communicating with said heat exchanger and said cooled waste gas stack to permit the cooled waste gases to escape from said heat exchanger, means operated by the pressure in the air manifold for controlling the flow of cooled waste gases through said conduit, a branch conduit communicating with said cooled waste gas conduit and said branch flue supplying hot waste gases to said heat exchanger so as to permit bleeding of cooled waste gases into said hot waste gases to temper said hot gases before they enter said heat exchanger, means for controlling the flow of cooled waste gases through said branch conduit, means for supplying air to said heat exchanger, a heated air flue communicating with said heat exchanger and said air manifold, and a gas supply main connected with said fuel manifold.

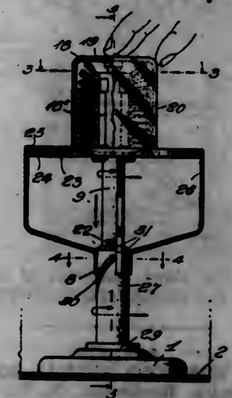
1,921,508
GEOMETRICAL INSTRUMENT
Leo H. Dawson, Washington, D. C., assignor, by mesne assignments, to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware
Original application March 25, 1927, Serial No. 178,254. Divided and this application June 26, 1929. Serial No. 373,799
13 Claims. (Cl. 33—1)



12. Apparatus for use in marking a crystalline body along its intersection with a predetermined plane comprising a universal mounting for said crystalline body, said mounting including a base adapted as a reference plane for goniometric measurements and means to adjust and hold said crystalline body in a predetermined angular relationship to said reference plane, and means of guidance in marking said crystalline body on a line parallel with said reference plane.

1,921,509
MACHINE FOR WASHING GLASSES AND OTHER RECEPTACLES
Cresson J. de Forest, Bogota, N. J., assignor of one-half to Edward L. Corbett, New York, N. Y.
Application August 31, 1932. Serial No. 631,277
12 Claims. (Cl. 15—76)

1. A washing machine for glasses and other receptacles comprising a vertically extending tubular support having a spiral slot disposed therein, a rotatable tubular carrier concentrically disposed within said tubular support, a roller member extending radially from said carrier and projecting through the spiral slot in said vertically extending tubular support, a brush carried by said tubular carrier, an independent rotatable sleeve concentrically disposed over said vertically extending tubular support and having a spiral slot therein engaging the roller member on said rotatable carrier, and a brush supported by said independent sleeve in cooperative relation to the brush



carried by said tubular carrier for rotatably acting upon the interior and exterior surfaces of a glass or other receptacle inserted over said first mentioned brush and subjected to axial pressure for imparting simultaneous rotary motion to each of said brushes.

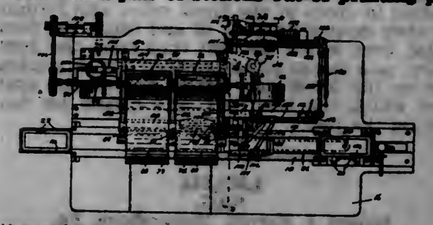
1,921,510
TWO-STROKE CYCLE INTERNAL COMBUSTION ENGINE
Wladimir De Wasmandé, Paris, France
Application July 21, 1930, Serial No. 469,492, and in France August 5, 1929
4 Claims. (Cl. 123—33)



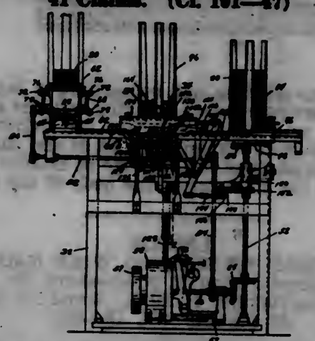
1. In combination with an internal combustion engine provided with a pair of cylinders, a pair of pistons mounted to reciprocate in said cylinders out of phase with one another, means for discharging burnt gases from said cylinders and means for supplying air thereto,—a fuel injecting assembly comprising a conduit communicating at opposite extremities with said cylinders, said conduit having a restricted portion formed at a point intermediate the extremities thereof; and a bifurcated fuel supply conduit connected with said first named conduit and communicating therewith at points in the vicinity of the restricted portion of said first named conduit.

1,921,511
PRINTING MACHINE
Harmon P. Elliott, Watertown, Mass.
Application July 24, 1929. Serial No. 380,591
24 Claims. (Cl. 101—48)

1. A stencil printing machine including means to move stencils into and out of a printing position for a pair of stencils, means to print simultaneously once only the entire data contained in the pair of consecutive stencils while they are in said printing position upon a common sheet, and means thereupon to operate said moving means to move said pair of stencils out of printing position prior to the printing from a succeeding pair of stencils.

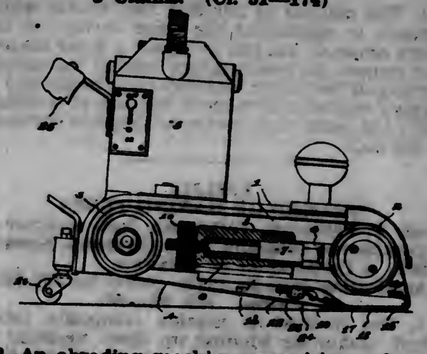


1,921,512
STENCIL PRINTING AND COPYING MACHINE
Harmon P. Elliott, Watertown, Mass.
Application October 22, 1929. Serial No. 401,487
41 Claims. (Cl. 101—47)



1. In a stencil copying machine, supporting means for a blank printing device, supporting means for a formed address-bearing printing device, means which includes a formed printing device to form on the blank printing device the same address that is carried by said formed printing device, and means for moving successive blank and address-bearing printing devices separately into and out of forming position.

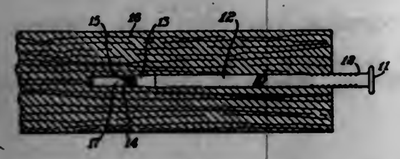
1,921,513
FLOOR FINISHING MACHINE
Arthur N. Emmons, Nedrow, N. Y., assignor to The Porter-Cable Machine Company, Syracuse, N. Y., a Corporation of New York
Application November 9, 1928. Serial No. 318,143.
3 Claims. (Cl. 51—174)



3. An abrading machine comprising a frame, front and rear rollers carried by the frame, an

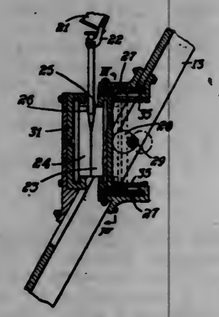
abrading belt running over the rollers, and means located in front of the front roller and forming an apex located in front of and below the front roller, over which the belt runs from the front roller, said means being provided with a yielding pad on the lower side thereof and on the apex, over which the belt runs, and means for tensioning the pad.

1,921,514
NAIL
Robert J. Farrell, Waynesburg, Pa.
Application September 5, 1931. Serial No. 561,325
2 Claims. (Cl. 85—30)



1. A non-splitting nail comprising a head and a shank having a tapered driving end, the surface metal of said shank adjacent the driving end being projected beyond the end of the shank to provide an annular cutting edge of smaller diameter than the diameter of the body of the nail.

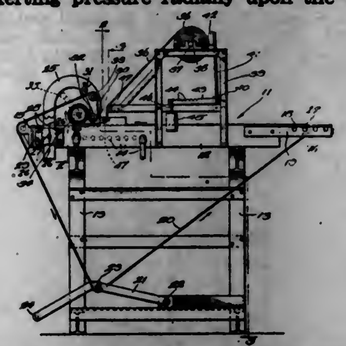
1,921,515
METHOD OF MAKING WIRE NAILS
Robert J. Farrell, Waynesburg, Pa.
Application October 14, 1931. Serial No. 568,662
12 Claims. (Cl. 10—54)



1. The method of pointing nail blanks which consists in elongating the outer surface of the blank adjacent the end to impart a taper thereto and project the outer surface beyond the central portion of the blank whereby an entering end is formed which is of reduced size but of substantially the same cross-sectional shape as the body of the nail.

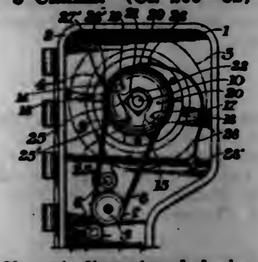
1,921,516
METHOD OF MAKING TUBES
Louis T. Frederick, Valparaiso, Ind., assignor to Continental Diamond Fibre Company, Newark, Del., a Corporation of Delaware
Application June 20, 1930. Serial No. 462,556
8 Claims. (Cl. 93—94)

1. The method of making composite tubes, which comprises winding up sheet material to substantially tubular form, as on a mandrel, while maintaining the sheet material in tension and exerting pressure radially upon the wound



portions of the sheet material at substantially all points in the circumference thereof.

1,921,517
FILM WINDING SIGNAL DEVICE
Edwin C. Fritts, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York
Application December 20, 1929. Serial No. 415,463
8 Claims. (Cl. 200—52)



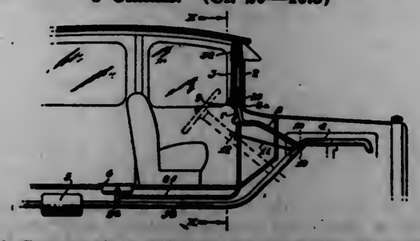
1. In a film winding signal device, the combination with a shaft, a spindle member and a power drive both rotatable on said shaft, and a contact member forming one element of a switch, of a link between said spindle member and said power drive, and forming the other element of said switch, a pivotal connection and a loose pivotal connection, one between said link and said spindle member and the other between said link and said power drive.

1,921,518
INSULATING BLOCK
Ralph S. Frehsicher, Portsmouth, N. H., assignor to Bemis Industries, Incorporated, Boston, Mass., a Corporation of Delaware
Application February 19, 1930. Serial No. 429,607
5 Claims. (Cl. 20—4)



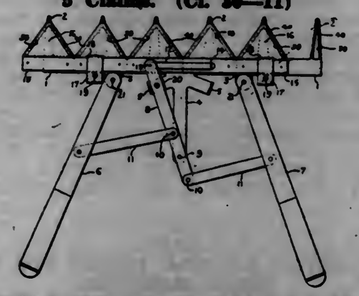
1. An insulating block for building construction comprising a light mass of fibers felted to provide material having many minute air cells, the fibers being of the type which may be deposited from a water pulp, said block having exterior faces including opposite plane faces, said block having a core opening spaced from its exterior surfaces and extending through the block, the fibers adjoining said opening having a preponderant direction of extent which is tangential to the opening.

1,921,519
WINDSHIELD
Albert F. Gauger, Detroit, Mich.
Application August 30, 1930. Serial No. 478,842
3 Claims. (Cl. 20—40.5)



1. In an automobile having an engine, the combination of a wind-shield, a sheet of glass located parallel, adjacent to, and spaced from said wind-shield, an exhaust passage from said engine, a pipe communicating with said exhaust passage and extending adjacent to the lower edges of said sheet of glass and the wind-shield substantially as, and for the purpose described.

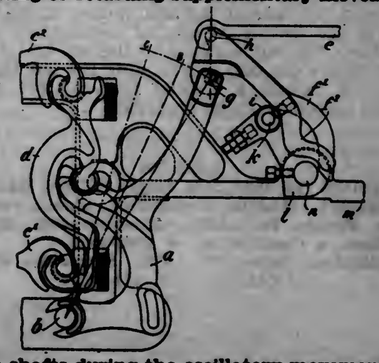
1,921,520
HEDGE TRIMMER
Wyman R. Green, Chattanooga, Tenn.
Application September 26, 1930
Serial No. 484,593
5 Claims. (Cl. 30—11)



1. In hedge trimmers, an indented edge support, a serrated edge cutting member, a pair of handles pivoted to the support, a center arm pivoted to a projection of the support and projecting on opposite sides of the pivot, a link connecting the free end of the arm to the cutting member, means for holding the support and cutting member in slidable relation to each other, and separate links from each handle to the center arm on opposite sides of its pivot.

1,921,521
SHEDDING DEVICE FOR DOBBIES
Hans Grossmann, Hongg near Zurich, Switzerland, assignor to Gebr. Staubli & Co., Horgen, Switzerland
Application July 29, 1931, Serial No. 552,041, and in Switzerland September 17, 1930
8 Claims. (Cl. 139—66)

1. A shedding device for dobbies, comprising shafts and levers interposed between the dobby and its shafts, means adapted to impart oscillatory movements to these levers, cam guides in such relation to said levers as to produce an accelerating or retarding supplementary movement



of the shafts during the oscillatory movement of said levers.

1,921,522
WELL BORE FEELER
Leland S. Hamer, Long Beach, Calif., assignor of one-half to John W. MacClatchie, doing business under the name of MacClatchie Manufacturing Company, Compton, Calif.
Application March 7, 1928. Serial No. 259,867
12 Claims. (Cl. 33—178)



1. A device of the character described comprising a mandrel, arcuate members defining an annulus surrounding the mandrel, and means for radially shifting the arcuate members for expanding and contracting the periphery of the annulus, the mandrel having a circulating bore opening therethrough.

1,921,523
GOLF AND OTHER PLAYING BALL
Thomas Hassall Hart, Birmingham, England
Application January 6, 1931, Serial No. 507,029, and in Great Britain July 30, 1930
6 Claims. (Cl. 273—35)



1. A playing ball comprising a hollow rubber ball having a hole formed in it, a tee formed from

a folded strip of pliable material and slidable through the hole in the ball, means at the inner end of the tee for preventing detachment of the tee from the ball, a sleeve on the tee, and a loose ring within the ball surrounding the tee, the ball and tee having a limited free relative movement, substantially as described.

1,921,524

METHOD OF MAKING INSULATING BLOCKS

William L. Hodges, Cambridge, Mass., assignor to Bemis Industries, Incorporated, Boston, Mass., a Corporation of Delaware

Application August 27, 1930. Serial No. 478,125
2 Claims. (Cl. 154—28)



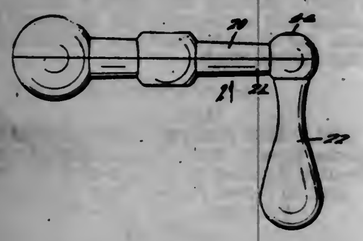
1. Method of making substantially solid insulating blocks out of original blocks formed of yieldable material with a plurality of core openings extending therethrough and having their central axes in a common plane, which comprises cutting each original block substantially in the plane of the axes to provide a pair of slabs each having similar recesses separated by aligned plane surface portions, interfitting the recesses and aligned plane surface portions of a pair of slabs, and pressing the slabs together until their recessed faces are substantially in continuous contact and adhesively securing the slabs in their interfitting relationship.

1,921,525

BALL HANDLE

Clifton P. Howard and Peter Lofgren, Worcester, Mass., assignors to Rockwood Sprinkler Company of Massachusetts, a Corporation of Massachusetts

Application November 15, 1930
Serial No. 495,950
5 Claims. (Cl. 16—111)



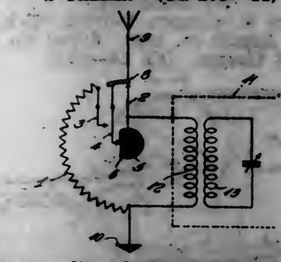
1. A ball handle comprising two sheet metal body members secured together face to face and having aligned non-circular openings therein, and a sheet metal transverse bearing member extending through said openings and permanently secured therein, said bearing member having walls of substantially uniform cross section and being adapted to fit closely on a non-circular shaft element.

1,921,526

COUPLING SYSTEM

Lawrence A. Hyland, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware

Application March 26, 1929. Serial No. 350,052
2 Claims. (Cl. 178—44)



1. In a coupling device for coupling two circuits, a resistance member, having intermediate taps, a rotatable switch member adapted to selectively engage any tap on said resistance member, a contact point adjacent one end of said resistance member and normally electrically insulated therefrom, one of said circuits having its terminals respectively connected to said contact point and the end of said resistance element remote from said contact point, the other of said circuits having its terminals respectively connected to said switch member and the terminal of said resistance element remote from said contact point, two adjacent contact members, one of said contact members being connected with the end of said resistance member adjacent said contact point, the other of said contact members being connected to said contact point, a cam member carrying said rotatable switch member, said cam member being adapted to engage one of said contact members and close the connection between said contact members when said switch member engages said resistance member, and open the connection between said contact members when said switch member engages said contact point, whereby said circuits may be variably coupled or may be connected in series through the rotation of one switch member.

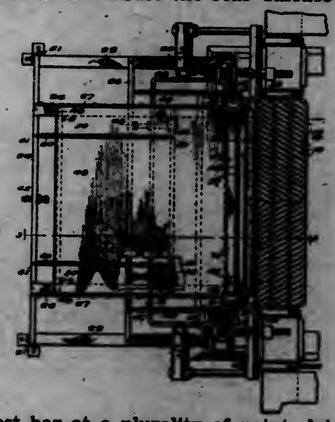
1,921,527

AUTOMATIC FEEDING DEVICE FOR BAR SIZING MACHINES

Leon Nickerson Kersey, Wilmington, Del., assignor to Bond Manufacturing Corporation, Wilmington, Del., a Corporation of Delaware

Application April 30, 1932. Serial No. 606,523
4 Claims. (Cl. 142—1)

1. In a machine for automatically turning and dressing cylindrical bars to uniform size, the combination of a rotatable dressing wheel, a rotatable feed roll, a support for the bar being dressed and upon which said bar is turned by said feed roll on an axis parallel to the axes of said roll and wheel, means for periodically holding said feed roll and dressing wheel in appropriate closely spaced relation for the dressing of the supported bar and for subsequently increasing the spacing upon completion of the dressing operation to release the bar from the support when dressed, and means for automatically feeding bars to be dressed to said support one-by-one in parallel relation to the adjacent surfaces of the feed roll and dressing wheel as the preceding bars are dressed and released, said means comprising a magazine for holding a plurality of bars to be dressed, said magazine having a mouth in which the foremost of the bars to be dressed is disposed above and parallel to the axis on which the bars are turned for dressing, and means for displacing the foremost bar from the mouth of said magazine to said support after the previously fed bar has been dressed and released, said last recited means comprising a pusher member disposed directly behind the foremost bar in said magazine and guided to contact the rear surface of said



foremost bar at a plurality of points lying in a line parallel to the axis on which bars are rotated upon said support, and means coupled to said wheel and roll spacing means and engaged with said pusher member to cause the latter to reciprocate and periodically expel said foremost bar from said magazine to said support as said dressing wheel and feed roll are returned to closely spaced bar-dressing relationship.

1,921,528

ARC WELDING ROD

James M. Keir, Bayside, N. Y., assignor to Oxweld Acetylene Company, a Corporation of West Virginia

No Drawing. Application September 30, 1929
Serial No. 396,414
4 Claims. (Cl. 219—8)

1. An arc welding rod composed of an alloy which comprises iron as the main constituent, the remainder being substantially carbon a trace to .60%, manganese a trace to 6.0% and about 1.5% to 4.0% silicon.

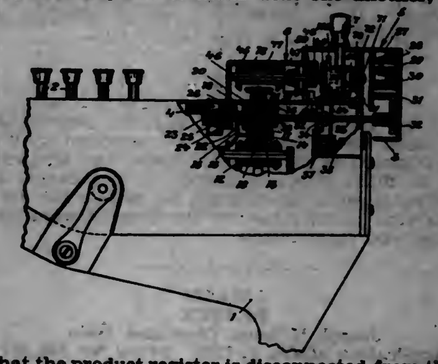
1,921,529

CALCULATING MACHINE WITH TWO COUNTING MECHANISMS

August Kettmann, Sommerda, Germany, assignor to Rheinische Metallwaaren und Maschinenfabrik Sommerda Aktiengesellschaft, Sommerda, Germany

Application May 20, 1930, Serial No. 454,031, and in Germany May 20, 1929
16 Claims. (Cl. 235—75)

6. A calculating machine comprising a carriage having a cover plate, two registering mechanisms having numeral wheels supported on said carriage, one of which registers the separate products and the other registers the sums of said products, and transfer mechanism whereby the transfer of the separate products from the first-mentioned mechanism into the second-mentioned mechanism is accomplished by setting the first-mentioned mechanism to zero, including reversing gears arranged between the corresponding numeral wheels of said two mechanisms, means to shift said gears, said gears being so arranged that by suitably shifting them the separate products can be transferred into said second-mentioned mechanism either additively or subtractively, said sum registering mechanism being arranged above the said cover plate, shafts driven by the number wheels of the product register and extending perpendicular to and through the cover plate of the carriage, bevel gears lying above said cover plate, said reversing gears acting as reverse mechanism and being arranged to be longitudinally shiftable but non-rotatable upon the shafts of the number wheels of the sum registering means which are extended for this purpose, the gears of the reverse mechanism being normally out of mesh with one another, so



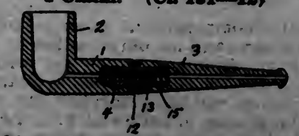
that the product register is disconnected from the sum register, and a means whereby said gears are brought into mesh by the transfer mechanism at the beginning of its movement, including also two cam gear devices, whereby the engaging of the reverse gearing is prepared for additive or subtractive transfer by selectively actuating one of said two cam gear devices, one of which engages the actuating device for the transfer element for additive transfer and the other for subtractive transfer, tens shifting fingers, and shifting means which causes one of said cam gear devices to become active and simultaneously also causes one or another of the tens shifting fingers to become active.

1,921,530

FLEXIBLE NONBREAKABLE PIPE STEM JOINT

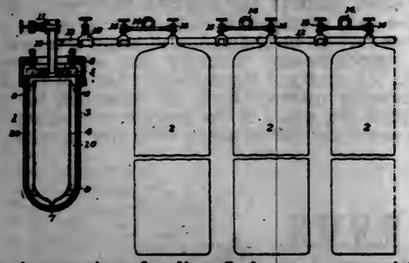
Oliver M. Leroh, Rimersburg, Pa.

Application April 16, 1932. Serial No. 605,692
1 Claim. (Cl. 131—12)



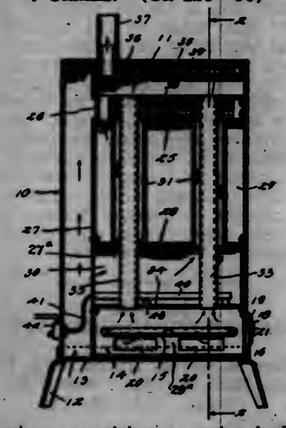
A smoking pipe comprising a bowl having a stem part, a mouth piece having a stem part, the adjacent ends of said stem parts having recesses therein, a bushing fitting in each recess with the outer end of each bushing having a flange thereon extending over the end of the stem part which carries the bushing, the outer end of one bushing having a substantially semi-spherical recess therein, and the outer end of the other bushing having a rounded projection thereon for fitting in the recess, the flange of one bushing having a recess in its outer face, a gasket fitting in the recess and contacting the flange of the other bushing, and a spring passing through the two bushings and having its ends connected to the inner ends of the bushings.

1,921,531
APPARATUS FOR AND METHOD OF PRODUCING COMPRESSED GAS
Isaac H. Levin, Pittsburgh, Pa.
Application February 3, 1932. Serial No. 590,673
10 Claims. (Cl. 62—1)



1. A vaporizer for liquefied gases, comprising an outer vessel, an inner vessel supported within and spaced from the outer vessel and adapted to be filled with a liquefied gas and having a restricted opening adjacent its bottom for discharging liquefied gas into the space between the inner and outer vessels.

1,921,532
HEATER
Joseph H. Long, Cleveland, Ohio
Application March 5, 1932. Serial No. 596,991
7 Claims. (Cl. 126—99)



1. A heater comprising an outer jacket having an open bottom, and an outlet adjacent the top, a combustion chamber supported within the jacket, an outlet for the combustion chamber, air tubes extending vertically through the chamber and communicating at each end with the interior of the jacket, and heater tubes extending through the first tubes and having the periphery spaced from the inner surface of the first tubes, said heater tubes having the lower ends thereof disposed adjacent the bottom of the combustion chamber.

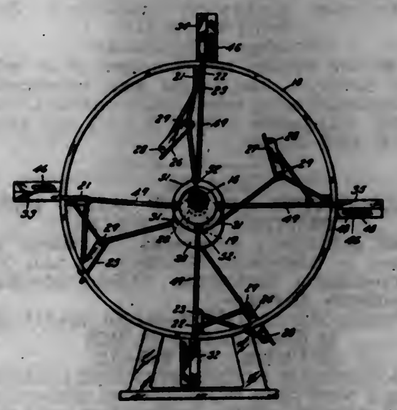
1,921,533
FLUID PRESSURE CONNECTION
Charles Edgar Maynard, Northampton, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts
Application December 19, 1930. Serial No. 503,590
5 Claims. (Cl. 285—163)

1. A fluid pressure connection for vulcanizers having a pair of separable mold sections which comprises a connection member adapted to be supported by one of the mold members, a second connection member, including an expansible tubular packing member, adapted to be carried by the article to be vulcanized and adapted to be assembled in telescoped relation with the first



connection prior to the closing of the mold, the free end of the expansible packing member being positioned to engage the inner walls of the first connection member and expand into sealing contact therewith in the presence of fluid pressure in the connection.

1,921,534
PROPELLER
Bynum B. McCrosky, Oakland, Calif.
Application February 29, 1932. Serial No. 595,724
1 Claim. (Cl. 170—151)



In combination with a propeller, a shutter vane comprising a frame, a plurality of shutter blades pivotally mounted in said frame, integral cam members for said blades, and having cam slots formed therein, a plate having projecting pins cooperating with said cam slots, an outwardly projecting pin on said plate operating through a slot in the side of said housing, a plunger cooperating with said pin, and means for operating said plunger coincident with rotation of said propeller.

1,921,535
DEVICE FOR FEEDING INFANTS
Gordon J. McLean and Richard Q. Edmonson, New Orleans, La.
Application January 18, 1933. Serial No. 587,258
3 Claims. (Cl. 30—22)

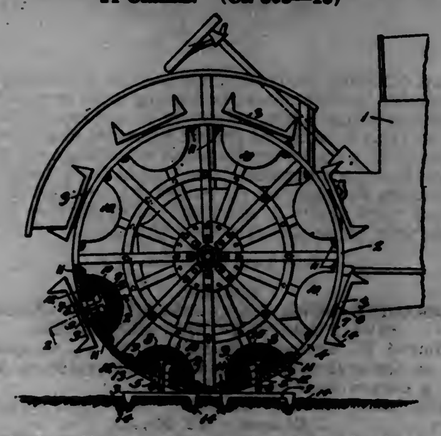


1. A device for feeding infants comprising a container having its upper face open, a supporting handle projecting from one end wall of the container, the other end wall of the container being inclined outwardly from the bottom to the top and provided with an elongated notch across the upper edge, a cover removably fitted on the upper open face with the outer free end of the cover co-operating with the notch to form a narrow slot, means for hingedly mounting the removably mounted cover means movable in the container for forcing food through the slot in a narrow ribbon, an operating means for the movable means, and means for removably supporting the operating means in the handle.

1,921,536
PRODUCTION OF MOLYBDENUM AND TUNGSTEN CARBONYL
Max Naumann, Ludwigshafen-am-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application January 17, 1931, Serial No. 509,530, and in Germany January 20, 1930
8 Claims. (Cl. 23—203)

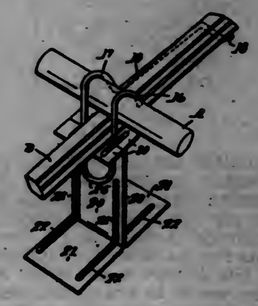
1. In the production of metal carbonyl by the action of carbon monoxide on a material containing at least one of the metals molybdenum and tungsten, the step of operating at a temperature of at least 210° C.

1,921,537
CUSHION CLEAT WHEEL
Ralph T. Osman and Erich H. Lichtenberg, Milwaukee, Wis., assignors to Keuhring Company, Milwaukee, Wis., a Corporation
Application December 31, 1930. Serial No. 505,856
14 Claims. (Cl. 305—13)



9. An attachment for a traction wheel, comprising a radially movable tread member having a shank extending loosely through the rim of the wheel, a head formed on the shank, resilient cushioning means surrounding the head for cushioning the tread member in both inward and outward radial movements of the tread member, and means for maintaining the cushion in position.

1,921,538
SECURING AND SUPPORTING DEVICE FOR CONCRETE REENFORCEMENT
Dwight E. Priest, Worcester, Mass., assignor to Parker Wire Goods Company, Worcester, Mass., a Corporation of Massachusetts
Application March 16, 1932. Serial No. 599,245
8 Claims. (Cl. 72—122)



4. A device for securing and supporting concrete reenforcing bars comprising a bar-securing member formed of a single piece of wire rod having an upwardly looped portion, a depending U-shaped portion and a longitudinally extended hook-arm and a pair of angle brackets secured together back-to-back at each side of said depending U-shaped portion, and having laterally extending top portions positioned to underlie and support a lower reenforcing bar.

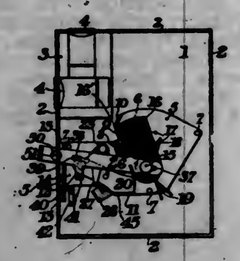
1,921,539
CHEMICAL PULPING PROCESS
George A. Richter, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine
No Drawing. Application October 27, 1931 Serial No. 571,461
2 Claims. (Cl. 92—9)

1. A process which comprises cooking raw manila fiber for about four hours at a temperature of about 335° F. in a liquor containing about 2% to 3% sodium carbonate and about 2% sodium sulphide, thereby producing a strong, long-fibered, easily bleachable pulp.

1,921,540
MANUFACTURE OF GLASSINE PAPERS
George A. Richter, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine
No Drawing. Application September 19, 1932 Serial No. 633,552
10 Claims. (Cl. 92—11)

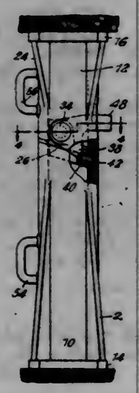
1. A process which comprises pulping raw fibrous material of the character of manila and sisal in a cooking liquor containing sodium sulphite as the essential fiber-liberating agent, beating the resulting pulp to the hydrated condition requisite for making translucent paper, and forming the beaten pulp into such paper.

1,921,541
CAMERA SHUTTER
William A. Riddell, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York
Application November 28, 1931
Serial No. 577,840
11 Claims. (Cl. 95—59)



1. In a shutter for cameras, the combination with a pivotally mounted shutter blade, of a master member adapted to swing the shutter blade upon its pivot from a position of rest, a trigger adapted to move in one direction from a position at rest to make an exposure, a spring connecting the trigger and master member for transmitting power to the latter, and a second spring of greater magnitude than the first mentioned spring for moving the trigger to its position of rest thereby returning the master member through its spring connection with the trigger.

1,921,542
MINE JACK
Otto Sann, Johnstown, Pa.
Application August 7, 1931. Serial No. 555,812
5 Claims. (Cl. 254—104)



1. A mine jack comprising two complementary and hollow post members having respective base and cap portions and parted in a plane inclined with respect to said base and cap portions, a latch pivotally mounted interiorly in one of said members and having a portion thereof adapted for engagement with an internal abutment on the other member.

1,921,543
ELECTRICAL RADIATION APPARATUS
Ulrich Schönfeld, Berlin-Pankow, Germany, assignor to Steatit-Magnesia Aktiengesellschaft, Berlin-Pankow, Germany, a Corporation of Germany
Application March 25, 1931, Serial No. 525,257, and in Germany March 31, 1930
3 Claims. (Cl. 219—19)



1. A radiation apparatus, comprising a base of insulating material in the form of a bar having longitudinal recesses at its sides, and a crescent-shaped heating coil engaging said recesses and held on said base by spring action, each turn of the heating coil comprising an inner and outer portion defining the outline of a crescent and connected to each other, the portions of each turn lying in substantially the same radial plane.

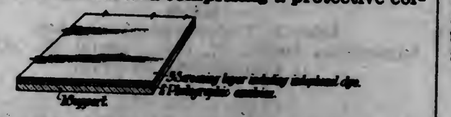
1,921,544
FORMING APPARATUS
Roy A. Shipley, Pittsburgh, Pa., assignor to National Fireproofing Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania
Application June 20, 1931. Serial No. 545,780
8 Claims. (Cl. 25—39)



4. Forming apparatus, comprising a rotatable member having means for guiding it for generally rotatable movement relatively to a conduit section, and a series of inclined cutters extending generally parallel to the plane of rotation of the rotatable member and spaced about the rotatable member for shaping an end of the conduit section upon generally rotatable movement of the forming apparatus relatively thereto.

1,921,545
COLORED SCREENING LAYER FOR SENSITIVE PHOTOGRAPHIC ELEMENTS
Merrill W. Seymour, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York
Application October 29, 1931. Serial No. 571,941
7 Claims. (Cl. 95—8)

1. A non-diffusing colored coating material for use as a screening layer with sensitive photographic elements and comprising a protective col-



loidal medium and a colloidal suspension of an indophenol dye dispersed therein.

1,921,546
TREATING PROCESS
Robert L. Sibley, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio, a Corporation of Ohio
No Drawing. Application September 26, 1932
Serial No. 634,929
10 Claims. (Cl. 252—1)

1. A treatment bath comprising a treatment liquid and an addition thereto of a compound selected from the group consisting of the sulphuric acid derivative of the reaction product of an alcohol and a hydroxy substituted diphenyl and their soluble salts.

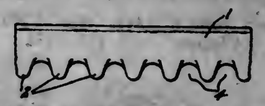
1,921,547
TUBING CATCHER
Nelson K. Smith and Richard K. Hertel, Los Angeles, Calif., assignors to Byron Jackson Co., Los Angeles, Calif., a Corporation of Delaware
Application April 21, 1931. Serial No. 531,718
4 Claims. (Cl. 103—219)



4. In a tubing catcher, a nipple, a head on said nipple, an angular bearing surface formed upon said head and extending inwardly and downwardly to intersect said nipple and extending around the said nipple below said intersection and a slip having an angular rear face conforming with the angle of said bearing surface and having a recess formed in said rear surface to permit said slip to partially surround said nipple below said point of said intersection.

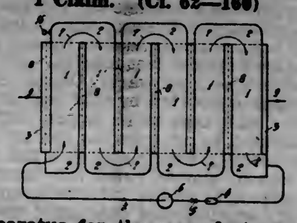
1,921,548
JUVENILE TIRING
Harry B. Soulen, Milwaukee, Wis., assignor to Charles A. Dana and John B. Pierce, receivers for The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts
Application March 9, 1932. Serial No. 597,686
7 Claims. (Cl. 152—1)

1. Tiring for juvenile vehicles and the like which comprises a straight length of rubber generally round in cross-section, provided along one side with relatively narrow transverse corrugations, the spaces between said corrugations having a width longitudinally of the tiring at least equal



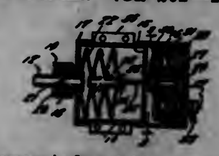
to the longitudinal width of the corrugations, the surfaces of the corrugations being curved, and a longitudinal wire receiving opening positioned centrally between the sidewalls of the tiring and slightly above the base of the corrugations.

1,921,549
APPARATUS FOR MANUFACTURING ICE IN PLATES
Henri Jacobus Spaan, Surabaya, Java, Dutch East Indies
Application November 14, 1931, Serial No. 575,065, and in the Netherlands June 29, 1931
1 Claim. (Cl. 62—160)



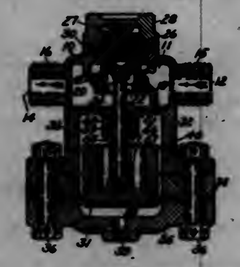
An apparatus for the manufacture of ice in plates, comprising a plurality of gutter shaped open troughs, arranged next one another, interconnected cooling jackets provided along the longitudinal side walls and the bottoms of all the troughs, waterchambers projecting outside said cooling jackets and interconnecting the adjacent troughs in such a way that the water to be frozen is caused to flow through all the troughs in series, said waterchambers having a cross-section practically equal to that of the troughs, vertical baffle plates between the longitudinal sidewalls of each pair of adjacent troughs causing the cooling medium to flow along all the vertical side walls, as well as all the bottoms of the troughs in one continuous stream.

1,921,550
TIRE PRESSURE INDICATOR
James W. Swallen, Kansas City, Mo.
Application May 15, 1931. Serial No. 537,704
2 Claims. (Cl. 201—48)



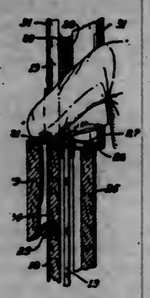
1. A fluid operated resistor comprising a housing, a diaphragm mounted within one end of the housing, a fluid supply line communicating with the diaphragm, a barrel arranged in the diaphragm and carried thereby, a nut at the outer end of the barrel, a die-electric body in the opposite end of the housing, a resistance element arranged on the body, a contactor for riding engagement with the resistance element, a rotatably mounted screw, said screw at one end being disposed through the nut and into the barrel and at its opposite end attached to the said contactor.

1,921,551
VALVE MECHANISM
Paul C. Temple, Decatur, Ill., assignor to A. W. Cash Company, Decatur, Ill., a Corporation of Delaware
Application June 8, 1931. Serial No. 542,837
2 Claims. (Cl. 137—153)



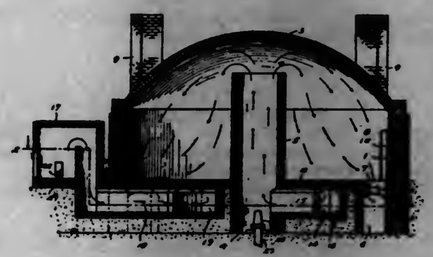
1. A valve mechanism comprising a casing shaped to provide a passage for the flow of fluid, a valve vertically slidable in the casing and arranged to control the fluid flow through the passage, a pair of spaced feet integral with the casing and extending downwardly therefrom, a pressure chamber supported by said feet and having a flexible diaphragm as its upper wall adapted to be subjected to an external controlling pressure, a pressure plate shaped as a flat bottomed circular cup in contact with the upper surface of the diaphragm and located between the feet, a vertically slidable rod extending downwardly into the cup and connecting the pressure plate with the valve, a stuffing box mounted on the lower wall of the casing and surrounding the rod, a pair of ears extending outwardly in opposite directions from the upper part of the pressure plate cup, and a coiled compression spring mounted above each ear and serving to urge the pressure plate downwardly in opposition to the controlling pressure.

1,921,552
MOTOR VEHICLE
Milton Tibbetts, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan
Application January 21, 1931. Serial No. 510,117
14 Claims. (Cl. 296—44)



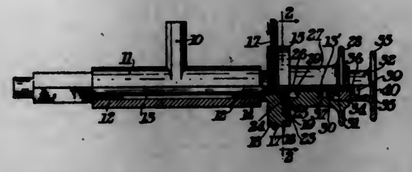
1. In a motor vehicle body structure, fixed inner and outer parallel side walls having a window opening therethrough, walls hinged to said fixed walls and adapted to be swung into or out of the lower portion of the window opening and to extend in a plane parallel with the fixed walls in either position.

1,921,553
KILN
John T. Underwood, Alma, Ark.
Application August 27, 1931. Serial No. 559,753
11 Claims. (Cl. 25—145)



1. A kiln comprising a ware firing chamber, a combustion chamber located at the center of and below the floor of the firing chamber, means for delivering gaseous fuel to the combustion chamber, a flue extending upwardly from the combustion chamber into the firing chamber, stacks located outside the firing chamber, and a circumferentially extending draft tunnel disposed within the outer wall and below the floor of the ware firing chamber adjacent the outer margin thereof.

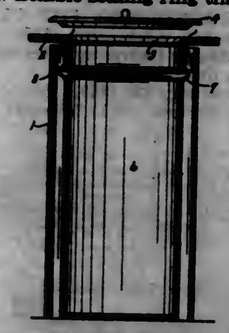
1,921,554
DRIVE RELEASE AND BRAKE FOR A SPINDLE
Howard C. Wellman and Newton B. Green, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York
Application November 19, 1931
Serial No. 576,038
11 Claims. (Cl. 192—12)



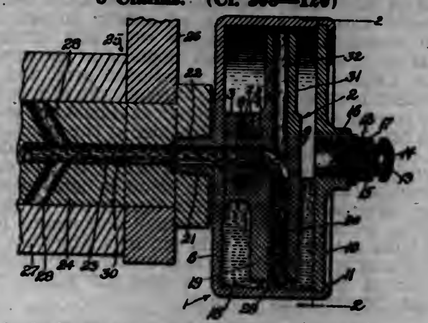
1. In a device of the character described, the combination with a spindle and a pulley rotatably mounted thereon, of a connector means adapted to be in frictional engagement with said spindle and said pulley and adapted to be varied in axial extent to change the frictional engagement thereof with said spindle and said pulley.

1,921,555
SEALING RING
Frank J. Welsh, Parma Heights Village, Ohio
Application April 22, 1931. Serial No. 532,182
1 Claim. (Cl. 220—46)

In combination with a refrigerating apparatus including a refrigerating means disposed between adjacent walls formed by an outer casing and a container within said casing, means for sealing the space between the outer casing wall and the container wall adjacent the tops thereof comprising a hollow flexible sealing ring that is compressible into a position between the walls of the refrigerating compartment.



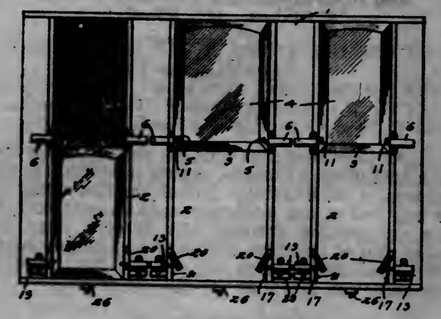
1,921,556
LUBRICATING DEVICE FOR BEARINGS
Edward R. Wharton, Medford, Mass.
Application March 13, 1931. Serial No. 522,206
8 Claims. (Cl. 308—120)



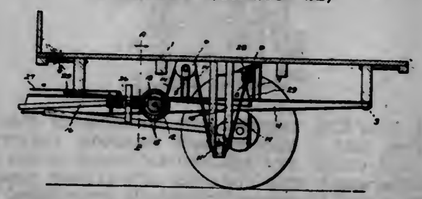
1. A device for lubricating bearings comprising a container adapted to be connected with and carried by a rotatively movable element of the mechanism to be lubricated, said container serving as a holder for a body of fluid lubricant and having a side wall made with a horizontal delivery conduit leading to the bearing that is to be lubricated; an eccentrically weighted gravity-controlled conduit terminal member within said container rotatably and directly mounted upon said side wall so as to turn freely with relation thereto on a horizontal axis coincident with the inlet end of said delivery conduit so that it is continually held by gravity against rotation relatively to a vertical plane extending through said axis with its lower weighted portion submerged in the fluid lubricant, said lower weighted portion being made with a conduit extending from the bottom thereof upwardly to the inlet end of the horizontal delivery conduit of said container, and a wick loosely occupying the said two conduits with its lower end portion held submerged within said body of fluid lubricant by said gravity-controlled conduit terminal member.

1,921,557
ALARM AND SAFETY SYSTEM
Alfred A. Bowman, Pleasanton, Calif.
Application May 17, 1930. Serial No. 453,206
4 Claims. (Cl. 20—1.01)

1. The combination with a gravity closed closure element, of a cushioning device comprising a cylinder having an apertured reciprocable piston therein, said cylinder being horizontally arranged adjacent the lower portion of the opening controlled by the closure element, an oscillatable arm pivotally mounted at one end adjacent said opening and having its other end extending thereinto in the path of the closure element, a piston rod connecting the said other end of the arm with said piston, and means normally urging the said other end of the arm into the path of movement of the closure element when the same is lowered to check the movement thereof.



1,921,558
DUMPING CAR
Johan Carlsson, Landskrona, Sweden
Application December 3, 1930, Serial No. 499,833, and in Sweden December 17, 1929
5 Claims. (Cl. 298—21)



1. In a dumping vehicle of the character described, an under frame, a load platform tiltably supported by said frame, bearing means for the tilting movement of said frame and adapted to permit the tilting of the same towards either of its sides and backwardly according to will, a foremost transverse beam construction rigidly supported by the under frame, a pair of interspaced wire pulleys rotatably mounted on said beam construction in a plane substantially parallel to the direction of length of the vehicle, a rearmost transverse beam construction rigidly supported by the under frame, a pair of interspaced wire pulleys hingedly supported by this second beam construction and rotatable in a plane substantially transverse to the direction of length of the vehicle, a pair of hanger frames depending from the tiltable platform in a position between the transverse beam constructions, a wire pulley mounted on each of the depending hanger frames in a position below the pulleys carried by the said beam constructions, a wire passing in zigzag over the pulleys at one side of the vehicle, thereafter transversely over the pulleys on the rearmost transverse beam, and thence in zigzag over the pulleys at the other side of the vehicle, and means for causing a tension in the wire so as to make it to travel around the pulleys for the purpose of effecting the dumping movement.

1,921,559

FILM SPOOL FOR ROLL-HOLDING CAMERAS

Charles Z. Case, London, England, assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York

Application December 11, 1931, Serial No. 580,473, and in Great Britain February 7, 1931
9 Claims. (Cl. 95—31)



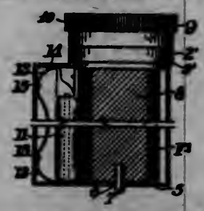
1. An improved film winding apparatus for roll film including a camera, a film guideway in the camera, a substantially cylindrical film chamber at one end of the guideway, said camera including an opening through the camera near the other end of the film guideway and means separate from the camera for moving film through the guideway and into the film chamber.

1,921,560

FILM SPOOL FOR ROLL FILM CAMERAS

Charles Z. Case, London, England, assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York

Application December 11, 1931, Serial No. 580,474, and in Great Britain February 7, 1931
14 Claims. (Cl. 95—31)



1. In a film magazine, the combination with a casing, and a hub member rotatably mounted in said casing and adapted to receive a coil of photographic strip material, of a presser means within said casing and resiliently maintained in engagement with the outer convolution of said strip material.

1,921,561

CUSHION SUPPORT

Burton Christmas, Pittsburgh, Pa.

Application April 13, 1932. Serial No. 604,936
6 Claims. (Cl. 45—137)



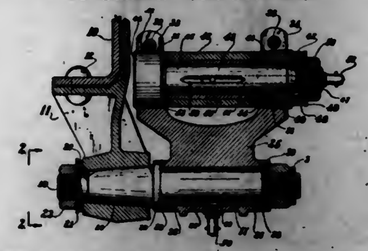
1. A support for an article of furniture including a rubber sponge cushion having a smooth face and adapted to support the furniture from the floor, and a socket of relatively tough rubber adapted to engage the furniture and held to the sponge cushion.

1,921,562

SPRING CONNECTION FOR VEHICLES

Harold D. Church, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio

Application February 26, 1932. Serial No. 595,299
5 Claims. (Cl. 267—54)



1. In a mechanism for connecting one end of a spring to a frame of a vehicle comprising an eye on said spring, a shackle pivotally attached to said frame and comprising a pair of rigidly connected arms which straddle the aforesaid eye of said spring, a bushing adjustably carried in one of said arms, the other of said arms being formed with an aperture, an axially adjustable pin connecting said shackle with said spring, said pin comprising a head mounted in the aperture formed in said last mentioned arm, and a reduced portion extending through the aforesaid eye on said spring and through said bushing, said pin being formed with a shoulder at the junction of the aforesaid head and reduced portion designed to receive the thrust of said spring in one direction, and said bushing being so constructed and mounted as to receive the thrust of said spring in the opposite direction, and means for limiting movement of said pin in a direction to withdraw its end through said bushing adjustably mounted on the portion of said pin which extends through said bushing.

1,921,563

METHOD OF SEPARATING DIFFICULTLY SOLUBLE CONSTITUENTS FROM DILUTE SOLUTIONS

Frederick G. Cottrell, Washington, D. C., assignor to General Salt Company, Los Angeles, Calif., a Corporation of California

Application July 14, 1931. Serial No. 550,709
9 Claims. (Cl. 23—217)

1. The process of removing a substance from dilute solutions thereof which consists in mixing with the solution a precipitating agent capable of precipitating said substance from the solution and thereafter bringing the solution containing potential precipitate in contact with a quiescent collecting body of large effective surface of such composition and in sufficiently massive condition to cause deposition of said substance on or in said body from the potential precipitate.

8. The process of removing iodine or bromine from brines in which it exists as iodide or bromide ions which consists in adding to said brines ions of an element or radical capable of forming an insoluble iodide or bromide with said iodide or bromide ions, and then passing the mixture promptly through a percolation mass of so open a structure as not to permanently catch or mechanically filter out the colloidal or finely divided suspended matter but which percolation mass has been adapted to collect said desired insoluble iodide or bromide by having its internal surfaces and/or pores of its granules coated or impregnated with the aforesaid insoluble iodide or bromide in a macro-crystalline or macro-aggregated form.

1,921,564

PROCESS FOR RECOVERY OF IODINE AND/OR BROMINE FROM SOLUTIONS CONTAINING SAME

Frederick G. Cottrell, Washington, D. C., assignor to General Salt Company, Los Angeles, Calif., a Corporation of California

Application July 15, 1931. Serial No. 551,658
13 Claims. (Cl. 23—217)

1. In a process for recovering iodine or bromine from dilute solutions of iodides or bromides, the step which consists in percolating such solutions through a pervious body of so open a structure as not to materially interfere with free flow of liquid through the pores of said body comprising a solid compound capable of reacting with the iodide or bromide in solution to cause deposition of solid iodide or bromide in place of said compound.

4. In a process for recovering iodine or bromine from dilute solutions of iodide or bromide the operation which comprises bringing such solutions in reactive contact with a quiescent granular body the surfaces of the granules of said body comprising a compound of a metal, said compound being in solid phase and being of low solubility in said solution but of a solubility greater than the iodide or bromide of the same metal so as to cause deposition of solid iodine or bromine compound in place of the compound in said body, and subsequently subjecting the solution containing metal dissolved from said compound to the action of a precipitating agent to recover such metal therefrom, said precipitating agent consisting of an additional portion of the raw solution from the aforesaid dilute solution so as to produce a potential precipitate of iodine or bromine compound and comprising the further step of bringing such potential precipitate in contact with a deposition enforcing body whose surface consists of material isomorphic with said precipitating iodide or bromide.

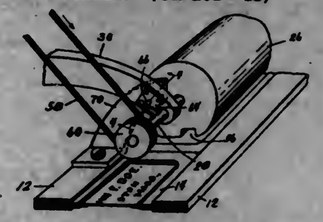
11. A process for recovering iodine or bromine from dilute solutions of iodide or bromide which consists in percolating such solution through a percolation body having surfaces comprising a solid metallic hydroxide capable of reacting with the dissolved iodide or bromide to cause deposition of solid iodide or bromide in place of said hydroxide, said hydroxide being the hydroxide of a metal having more than one valence and being held at the lower valence by electro-chemical action.

1,921,565

ADDRESSING MACHINE

Roff Elliott, Watertown, Mass.

Application October 16, 1931. Serial No. 569,294
16 Claims. (Cl. 101—48)



1. A stencil printing machine comprising a rotatable printing roll having a portion of its periphery that is adapted to receive ink and another portion that is free from ink, and means to stationarily position the roll with its ink-free peripheral portion in opposed relation with unwanted printing characters of a stencil during the printing operation.

1,921,566

PRODUCTION OF VALUABLE PRODUCTS FROM TALL OIL

Hans Franzen, Mannheim, and Robert Held, Leverkusen, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application October 31, 1932, Serial No. 640,502, and in Germany November 5, 1931
6 Claims. (Cl. 87—12)

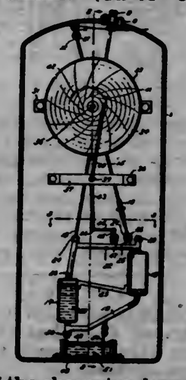
1. The process for separating fatty acid and resinic acid materials of tall oil which comprises esterifying both the said materials with a polyhydric alcohol, subjecting the resulting mixture to a catalyzed splitting in the presence of water while heating and separating the resulting free fatty acids from resinic acid esters.

1,921,567

DIFFERENTIAL PRESSURE DEVICE

Roy E. Hanson, Huntington Park, Calif.

Application May 19, 1930. Serial No. 453,630
10 Claims. (Cl. 73—31)



4. A device of the character described, comprising; a pendulum that is suspended, by a pair of flexible tubes and by a rod crossing the tubes and having a pivotal connection at each end, so as to be movable in a vertical plane, including spaced pressure vessels, at different elevations, communicating with each other at their bottoms and adapted to communicate with separate pressure sources at their tops through said tubes respectively; and a liquid partly filling said vessels.

1,921,568

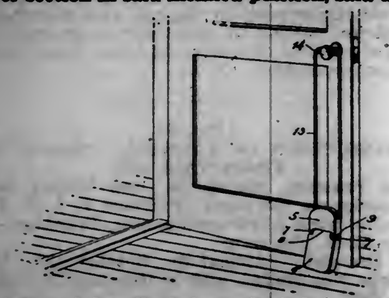
DOORSTOP

Louisa E. Hasselberger, East Hampton, N. Y.

Application July 20, 1932. Serial No. 626,981
2 Claims. (Cl. 292—344)

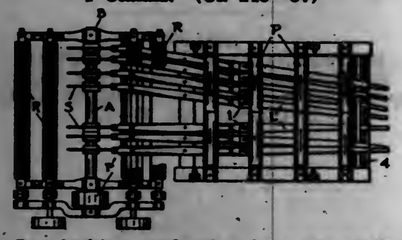
2. A door stop comprising a weight formed of upper and lower sections hinged together on a horizontal axis, the lower section being adapted to contact with the floor in an inclined position or to rest solidly on the floor in a horizontal position, and a vertically elongated handle secured at its lower end to said upper section, the upper end of said handle being adapted for hanging

upon a door knob to suspend the stop with said lower section in said inclined position, said upper



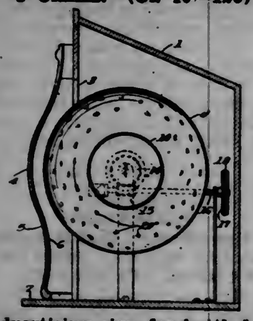
section and handle being adapted for upright positioning when said lower section rests horizontally on the floor.

1,921,569
SAWMILL
Frederick W. Herzikotte, Portland, Oreg.
Application April 29, 1931. Serial No. 533,625
4 Claims. (Cl. 143—37)



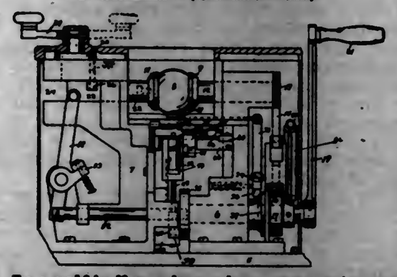
1. In a locking mechanism for a saw guide, the combination with a plurality of laterally adjustable carriers each having a wedge-shaped tooth thereon, of a vertically reciprocable bar and means for reciprocating said bar, said bar having mounted thereon a plurality of blocks, and said blocks having tapered points forming complementary notches for engagement with selected teeth.

1,921,570
ILLUMINATED ADVERTISING SIGN
Claude U. Johnson, Columbus, Ohio, assignor to P. F. Yoerger Sign Company, Columbus, Ohio, a Corporation of Ohio
Application May 24, 1932. Serial No. 613,235
5 Claims. (Cl. 40—126)



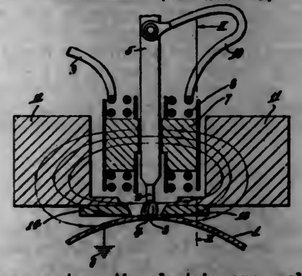
1. An advertising sign for bottled effervescent beverages, comprising a casing having an opening formed in the forward wall thereof, a translucent member of bottle configuration positioned exteriorly of said casing and in registration with said opening, a source of light arranged within said casing, a perforated animating member movably mounted within said casing, and means for imparting motion to said animating member whereby to direct a plurality of localized strong light beams upon said translucent bottle resembling member to simulate the appearance of upwardly moving bubbles in a represented beverage.

1,921,571
GOLF BALL MARKER
Elbert A. Jones, Oakland, Calif.
Application May 2, 1930. Serial No. 449,291
3 Claims. (Cl. 197—6.2)



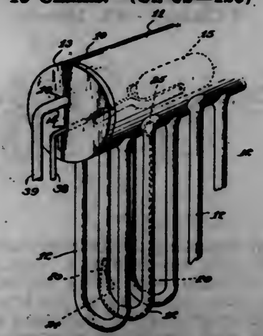
1. In a golf ball marker, a base, supports mounted on said base, a pair of spaced cup-shaped members rotatably carried by said supports, means for rotating said cups intermittently, means for moving said cups toward each other for the purpose of clamping a ball therebetween, a type carrying slide movable beneath the ball, means for projecting a type from said carrier against the face of said ball, a guide-way through which said type passes and a type cover plate movable over said guide-way for the purpose specified.

1,921,572
ARC WELDING MACHINE
Luther J. Kinnard, Pasadena, Calif., assignor to Consolidated Steel Corporation, Ltd., Los Angeles, Calif., a Corporation of California
Application August 24, 1931. Serial No. 558,967
3 Claims. (Cl. 219—8)



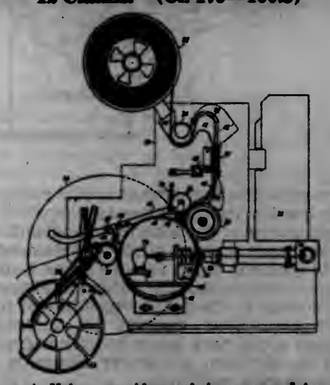
1. In an automatic electric arc welding machine, an electrode, material to be welded, means for moving said electrode and said material relative to each other to form a continuous line of weld, means for producing an auxiliary magnetic field directed across the arc between the electrode and the metal to be welded in a direction transverse to the line of said weld, said magnetic field producing means comprising a core of magnetic material extending substantially around said electrode, a coil on said core, and auxiliary pole pieces for directing the magnetic field from said core to a position adjacent the arc between the electrode and the metal to be welded.

1,921,573
EBULLATION INITIATOR
Carleton J. Lauer and Harold R. McPhail, Detroit, Mich., assignors to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan
Application May 2, 1927. Serial No. 188,358
15 Claims. (Cl. 62—126)



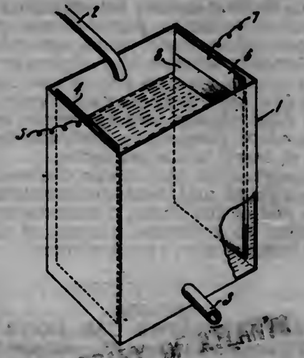
12. A refrigerating system comprising an evaporator for containing a quantity of refrigerant liquid and a relatively long flexible member for insertion into the evaporator beneath the level of the liquid therein, said member having means associated with the surface thereof for initiating evaporation of the liquid.

1,921,574
TALKING MOTION PICTURE PROJECTOR
Russell P. May, Haddonfield, N. J., assignor to Radio Corporation of America, a Corporation of Delaware
Original application September 12, 1929, Serial No. 392,051. Divided and this application February 17, 1931. Serial No. 516,258
12 Claims. (Cl. 179—100.3)



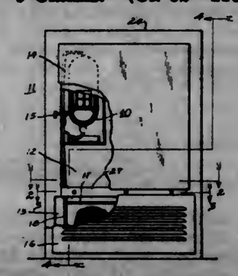
1. In a talking motion picture machine, means for moving the film at a highly continuous speed during sound reproduction which comprises a freely rotating sound reproducing drum around which the film is adapted to be moved while being reproduced, an optical system for reproducing the sound recorded upon the film while it is upon said sound reproducing drum, a continuously rotating sprocket for pulling said film around said drum, a driving motor, a shaft upon which said sprocket is mounted, a fly-wheel secured to said sprocket shaft and having projections extending radially thereof, a grid freely mounted upon said shaft and adapted to be rotated by said driving motor, spring means connecting said grid member with the projections of said fly-wheel for driving said fly-wheel and said continuously rotating sprocket, a damping roller around which the film passes before passing around said reproducing drum, and a pressure roller for pressing said film against said damping roller, and thus putting said film under tension whereby variations in speed of the film as it passes around said reproducing drum are eliminated.

1,921,575
CONCENTRATION AND PURIFICATION OF LATEX
John McGavack, Jackson Heights, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut
Application March 16, 1929. Serial No. 347,743
10 Claims. (Cl. 204—1)



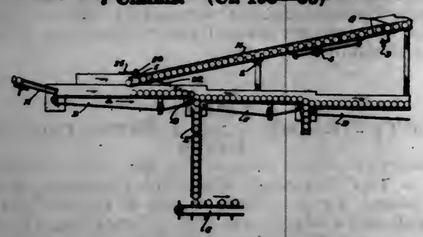
1. A method of concentrating and purifying latex which comprises treating the latex with a creaming agent, and continuously passing the latex between electrode surfaces connected with a source of electrical current, at least one of said electrode surfaces being covered with an insulator.

1,921,576
REFRIGERATING APPARATUS
Glenn Muffly, Richmond, Mich., assignor to Copeland Products, Inc., a Corporation of Michigan
Application March 5, 1931. Serial No. 520,235
9 Claims. (Cl. 62—116)



1. A refrigerator cabinet provided with a heat-insulated compartment having a cooling unit removably positioned therein, a heat-dissipating unit removably mounted adjacent to said compartment, conduits connecting said units through an open sided slot in one wall of said compartment, a packing member provided about the conduit and encompassed by the side wall of the slot and a finish strip removably retained on the front edge of said wall in such manner as to constitute a continuation of the front surface of the compartment.

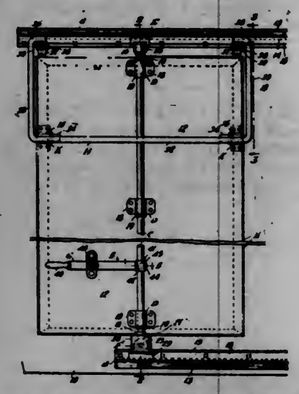
1,921,577
CAN FEEDING SYSTEM
Adolf H. Nelson, San Francisco, Calif.
Application March 2, 1931. Serial No. 519,381
7 Claims. (Cl. 198—35)



3. A can feeding system for supplying cans to a plurality of vertically disposed spaced chutes having open upper ends, which comprises conveyors extending between the upper ends of the chutes to convey cans to the chutes until they are filled and then to convey cans over and beyond the filled chutes, said conveyors being arranged in steps progressing downwardly in the direction of travel of the conveyors.

5. In combination with a can conveyor which comprises a chute, and means for raising and lowering one end of the chute, a constantly moving stop member to interrupt passage of the cans when the chute is in its raised position.

1,921,578
REFRIGERATOR CAR DOOR
John F. O'Connor, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware
Application October 8, 1931. Serial No. 567,609
7 Claims. (Cl. 20—23)



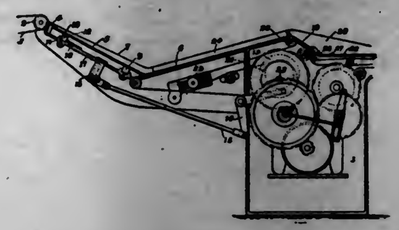
1. In door construction for refrigerator cars having a wall member provided with a door opening, the combination with a single door adapted to close said opening; of guide tracks on said wall member above and below said door opening; a bracket slidably guided on each track; a vertically disposed operating bar journaled on said door; crank arms at the top and bottom ends of said bar; means at the outer end of the lower crank arm journaled in the bracket of the lower guide track, said means including a roller journaled on the outer end of said arm having rolling engagement with said lower guide track; and a cylindrical crank pin member at the outer end of the upper crank arm journaled in the bracket of the upper guide track.

1,921,579
TIRE FORMING DEVICE
Albert Otte, Grosse Pointe Park, Mich., assignor to Morgan & Wright, Detroit, Mich., a Corporation of Michigan
Application September 26, 1930
Serial No. 484,491
6 Claims. (Cl. 154—9)



1. A bead mounting device comprising a member for engaging the side of a bead ring and a relatively movable supporting element for engaging the inner periphery of the bead ring, and resilient means connecting said bead ring engaging member and supporting element.

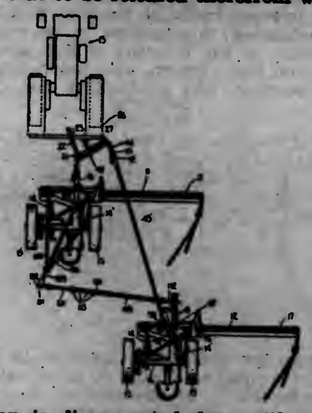
1,921,580
MACHINE FOR STACKING AND ARRANGING BISCUITS AND THE LIKE
John Currie Paterson and George Ralph Baker, Willesden, London, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich., a Corporation of New York
Application August 26, 1931, Serial No. 559,477, and in Great Britain September 3, 1930
3 Claims. (Cl. 198—30)



1. In a machine for arranging and stacking biscuits, in combination, guideway elements spaced apart lengthwise of the machine, longitudinal partitions mounted on said guideway elements, each guideway element being removable as a unit, and loose bars intermediate the guideway elements between the ends of the partitions adapted to be detachably connected thereto by interengaging joints, said loose bars being interchangeable and adapted to different guideway elements having variously spaced partitions.

1,921,581
HITCH MECHANISM
Talbert W. Paul, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois
Application February 20, 1931. Serial No. 517,169
16 Claims. (Cl. 280—33.44)

14. The combination with two implements adapted to be propelled by a tractor, of draft members connected with said implements, and a connection extending from one implement to the other and serially connecting them, said connection including at least one overload release mechanism, the connection being supported on the tractor so as to be released therefrom when the

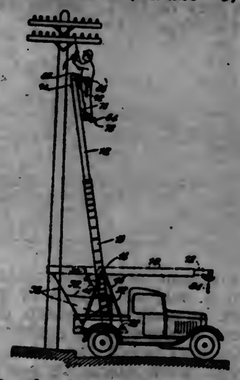


connection is disconnected from either implement.

1,921,582
PROCESS OF PLASTICIZING AND DISPERSING CELLULOSE ACETATE
William Beach Pratt, Wellesley, and Ralph T. Halstead, Boston, Mass., assignors to Dispersions Process, Inc., Dover, Del., a Corporation of Delaware
No Drawing. Application February 26, 1929
Serial No. 342,926
4 Claims. (Cl. 134—79)

2. A process of dispersing cellulose acetate in water which comprises incorporating a plasticizing agent and water into cellulose acetate to produce a coherent plastic mass, incorporating a hydrophilic colloid into the mass, and gradually manipulating water thereinto until a change of phase takes place and the cellulose acetate disperses in the aqueous medium.

1,921,583
LADDER CONSTRUCTION
George Berkeley Reed, New York, N. Y., assignor to Metropolitan Device Corporation, Brooklyn, N. Y., a Corporation of New York
Application October 12, 1931. Serial No. 568,225
7 Claims. (Cl. 228—6)



1. A ladder having a stiff safety bail pivoted thereto, a rigidifying member secured to and movable with the bail and an apertured member secured to the ladder for interlocking engagement with said rigidifying member.

1,921,584
MANDREL
Ward M. Robinson, Port Huron, Mich., assignor to Mueller Brass Co., Port Huron, Mich., a Corporation of Michigan
Application July 6, 1931. Serial No. 548,937
2 Claims. (Cl. 113—49)



1. A mandrel for upsetting operations comprising a plurality of segments fitting together to form an assembly of generally cylindrical contour, at least one of said segments having a regular cylindrical surface, and at least one other of said segments having a protrusion on its otherwise cylindrical surface, said segments being so constructed that, upon removal of said segment having a regular surface from the assembly, said segment having the protrusion thereon may be moved into such position that it is entirely within the confines of the regular cylindrical contour of the assembly.

1,921,585
FOOD DRESSING AND THE LIKE
William A. Booker and Victor E. Speas, Kansas City, Mo., assignors to Speas Mfg. Co., Kansas City, Mo., a Corporation of Missouri
No Drawing. Application August 14, 1929
Serial No. 385,960
9 Claims. (Cl. 99—11)

1. A food dressing consisting of an emulsified mass of oil, egg yolk, and a vegetable sauce possessing artificially-imparted emulsifying characteristics, mixed with vegetable particles which are coated with a seasoning mixture including a colloid.
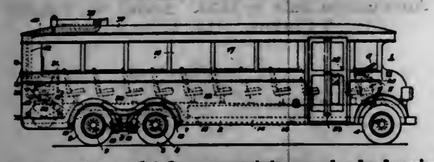
1,921,586
MANUFACTURE OF DYES CONTAINING CHROMIUM
Ernest Albert Sack, Neuilly-sur-Seine, France, assignor to Compagnie Nationale de Matières Colorantes & Manufactures de Produits Chimiques du Nord Reunies Etablissements Kuhlmann, Paris, France, a Corporation of France
No Drawing. Application June 18, 1930, Serial No. 462,143, and in France November 13, 1929
15 Claims. (Cl. 260—12)

1. The manufacture of dyes containing chromium by treating ortho-hydroxyazo dyes with chromium sulphate and sulphuric acid.

1,921,587
METHOD FOR THE MANUFACTURE OF SECONDARY AROMATIC AMINES
Waldo L. Semon and Paul C. Jones, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York
No Drawing. Application June 13, 1928
Serial No. 285,210
15 Claims. (Cl. 260—128)

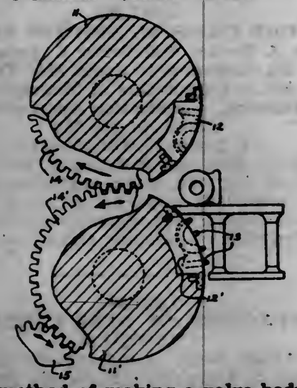
1. The method of manufacturing secondary aromatic amines which comprises reacting a mixture of a primary aromatic amine and a phenol in the presence of a small proportion of a strong acid as a catalyst.

1,921,588
MOTOR VEHICLE
Karl A. Simmen, Edgewood, Pa.
Application October 1, 1927. Serial No. 223,407
4 Claims. (Cl. 180—54)



1. A motor vehicle comprising a body having a rear compartment, an internal-combustion engine disposed in said compartment, a cooling system for said engine, a radiator for the cooling system mounted upon the roof of said body, a conduit leading from the engine to the radiator, and a fan for circulating air around the engine, through the conduit and out through the radiator.

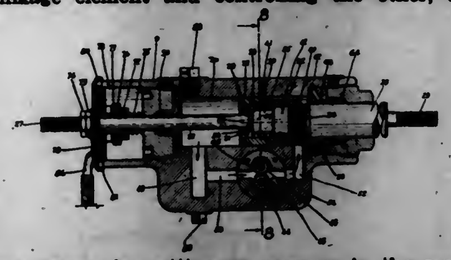
1,921,589
METHOD OF MAKING ROLLED STEEL VALVE BODIES
Stanley W. Sparks, New York, N. Y., assignor to C. H. Bickell, trustee
Application March 10, 1928. Serial No. 260,577
3 Claims. (Cl. 29—157.1)



2. The method of making a valve body which comprises rough shaping a billet, forming a plurality of cavities therein to admit of the penetration of heat into the interior of said billet, inserting into said cavities drifts of the exact configuration of said cavities to prevent the collapse of the billet during the rolling thereof, heating said rough shaped billet to a temperature above a forging temperature and sufficient to render the same semi-plastic and admit of the rolling thereof, introducing said billet into a plurality of dies arranged to move at substantially right angles to their longitudinal axes, causing said dies to intimately contact with each other under high pressure while at least one of said dies is moving in a curvilinear path and recovering the valve body so obtained from said dies.

1,921,590
FLUID POWER CONTROLLING MECHANISM
Edwin G. Staude, Minneapolis, Minn.
Application July 3, 1929. Serial No. 375,846
8 Claims. (Cl. 188—152)

3. A unit including a fluid pressure system having associated therewith one movable linkage element adapted to be connected to a controlling means and another movable linkage element movable independently of the first and adapted to be connected to a means to be controlled, valve means in the pressure system adapted to control fluid flow therein, and controlled by one linkage element and controlling the other, a

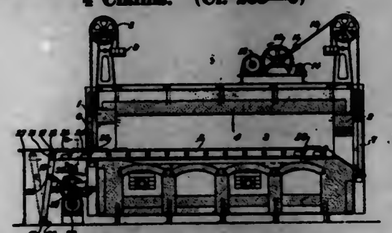


gear pump for setting up pressure in the system, motive means adapted to drive said pump, means adapted to be operated as the result of motion of one of the linkage elements to activate the motive means, said unit being mounted on a common base, being adapted to be connected as a link.

1,921,591
PROCESS FOR THE MANUFACTURE OF ZINC WHITE
Viktor Seidler, Paris, France
No Drawing. Application April 24, 1931, Serial No. 532,564, and in France December 12, 1930
2 Claims. (Cl. 23—147)

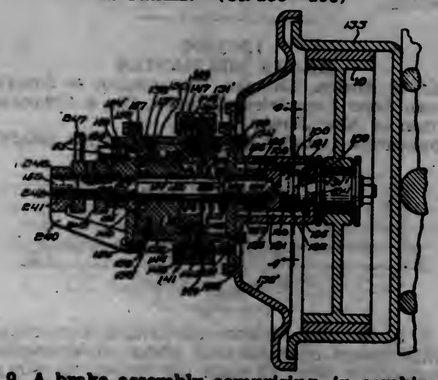
1. The process for the manufacture of zinc white from zinc residues as characterised, which consists in adding water to the residue both for eliminating soluble impurities and light non-soluble impurities and for incorporating water in close association with the remaining mass of residue, and then subjecting the mass to distillation in presence of the nascent vapor automatically formed under oxidising conditions with progressive heating to above 1000° C.

1,921,592
PAWL CONVEYER FOR CONTINUOUS HEATING FURNACES
Randal E. Talley, Irwin, Pa., assignor to George J. Hagan Company, Pittsburgh, Pa., a Corporation of Pennsylvania
Application May 15, 1931. Serial No. 537,562
4 Claims. (Cl. 263—6)



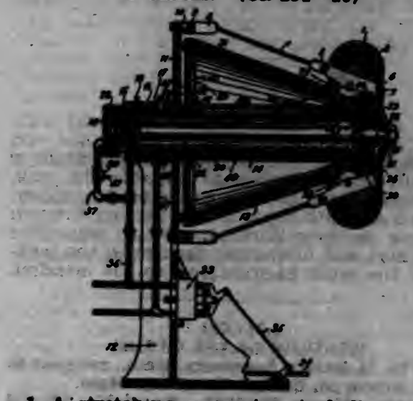
1. In a continuous heating furnace the combination with a pair of stationary guides constituting work supports on which the work is adapted to rest, a plurality of reciprocating rails in said guides and below the work supporting surface thereof, work engaging pawls pivotally mounted on said reciprocating rails and adapted to project above the work supporting surface of said guides, and means for subjecting the reciprocating members to movement in one direction whereby the pawls engage the work and advance it through the furnace and for returning said reciprocating member to its original position whereby the pawls are depressed to pass below the work and the work remains stationary on its supports.

1,921,593
BRAKE
Eugene V. Tayler, Chicago, Ill., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois
Original application October 30, 1926, Serial No. 145,109. Divided and this application May 7, 1928. Serial No. 275,669
12 Claims. (Cl. 188—106)



9. A brake assembly comprising, in combination, a drum, friction means within the drum, a closure plate for said friction means, an operating device associated with said friction means within said drum, a rotatable shaft connected to said operating device, fluid and mechanical control devices for actuating said shaft, said fluid control device comprising a cylinder, a piston mounted in said cylinder and keyed to said shaft, a cam groove and a cam roller operatively associated with said piston and cylinder, whereby longitudinal movement of said piston effects rotary movement of said shaft.

1,921,594
PLY STRETCHING APPARATUS
Walter S. Thompson, Detroit, Mich., assignor to Morgan & Wright, Detroit, Mich., a Corporation of Michigan
Application March 17, 1928. Serial No. 262,543
5 Claims. (Cl. 154—10)



1. A stretching apparatus, including an element comprising a coiled spring arranged in the form of a ring and adapted to receive a tire-band, a cone, means operable to move said cone through the ring-opening in a direction to expand the ring radially outward, said means being also operable to return said cone to non-expanding position, and means for cushioning said cone on the return operation thereof.

1,921,595
CLOCK
Philipp Vannini, Zug, Switzerland, assignor, by mesne assignments, to Landis & Gyr, A-G., of Zug, Switzerland, a limited joint stock company of Switzerland
Application June 27, 1928, Serial No. 288,692, and in Switzerland July 19, 1927
5 Claims. (Cl. 58—129)



1. A clock including in combination a clock movement, a spring hung pendulum, means for lowering the pendulum to suspend it by its spring and for raising it to clamp it in fixed position, and means associated with said means for locking the clock movement in position when the pendulum is hung from its spring and for releasing the clock movement when the pendulum is held in fixed position.

3. A clock including in combination a clock movement, a spring hung pendulum, a bar fixed to the pendulum below the spring, a bracket above the bar and fingers normally permitting the pendulum to be supported by the spring but movable to raise the bar and pendulum to clamp the bar between the fingers and bracket.

1,921,596
LANDING NET
Edward C. Walter, Orange, N. J.
Application February 18, 1931. Serial No. 516,566
6 Claims. (Cl. 43—12)
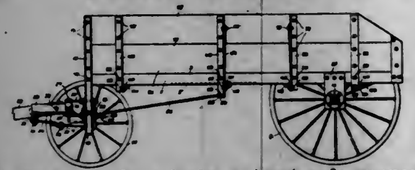
1. The combination in a device of the kind described, of a pair of normally diverging spring arms, a flexible connection between the arms, a net attached to the arms and connection, a shield for holding the above-mentioned parts collapsed against the tension of the arms and a projection on one of said arms engageable with a seat of said shield to latch the parts in col-

lapsed position, said shield, upon release of said



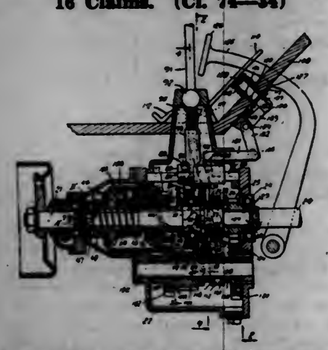
latch, being longitudinally movable to release the arms and thereby spread the net.

1,921,597
WHEELED VEHICLE
Leonard William Wolfe, Liberty, Ind., assignor, by mesne assignments, to The Dunham Company, Berea, Ohio, a Corporation of Ohio
Application January 24, 1931. Serial No. 510,947
8 Claims. (Cl. 280—80)



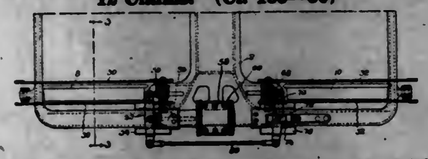
1. In a vehicle, a body, a front axle supporting the body, a rearwardly extending bracket secured to a middle portion of the axle, a pair of draft bars secured at their forward ends to the bracket and extending rearwardly and laterally therefrom, a pair of generally vertically disposed body reinforcing stanchion elements secured to the body and having portions projecting below the body, connected to the rearward ends of the draft bars.

1,921,598
POWER TRANSMISSION MECHANISM
Emil Andersen, Briarcliff Manor, N. Y.
Application March 11, 1931. Serial No. 521,633
16 Claims. (Cl. 74—34)



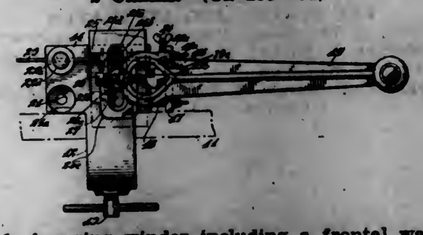
1. A variable drive transmission comprising a drive shaft, a driven shaft, planetary gearing comprising three elements, one element being connected to the drive shaft, a second element being connected to the driven shaft, and variable driving connections between the third element and the drive shaft whereby the said element can be driven in a direction opposite to the direction of drive of the first element, can be positively locked against rotation, can be driven in the same direction and at the same speed as the first element, or can be driven in the same direction and at a higher speed than the first element, torque controlled means for automatically shifting said variable speed driving connections, and manually controlled means for shifting said connections.

1,921,599
BRAKE MECHANISM
Ray G. Aurien, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey
Application October 19, 1931. Serial No. 569,567
12 Claims. (Cl. 188—56)



1. In a clasp brake mechanism comprising brake levers connected to brake shoes applied to opposite sides of each car wheel, tie straps connecting the lower ends of said brake levers, equalizing levers operatively connected to one of said brake levers for each wheel, a pull rod pivotally connecting the outside ends of said equalizing levers and a brake cylinder the piston of which is pivotally connected to one of said equalizing levers at a point intermediate its ends for transmitting braking movements.

1,921,600
SPRING WINDER
George H. Babcock, Chicago, Ill.
Application May 7, 1931. Serial No. 535,765
2 Claims. (Cl. 153—64)



1. A spring winder including a frontal wall, means for securing a mandrel across one end thereof, the wall being horizontally-slotted, a vertically-slotted pitch-gage opposite the wall, and attaching means between the pitch gage and the wall, said attaching means passing through the slots in these parts and being adjustable for vertical and horizontal changes in the position of the pitch gage relative to the mandrel.

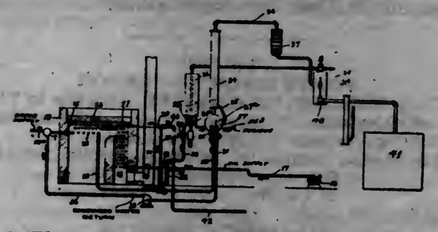
1,921,601
WINDOW GLASS GUIDE
Edwin W. M. Bailey, Amesbury, Mass., assignor to Edwin M. Bailey, Amesbury, Mass.
Application March 21, 1931. Serial No. 524,256
14 Claims. (Cl. 296—44.5)

1. A window casing having a vertically disposed window glass guideway comprising a U-form channel of thin metal for receiving an edge portion of the glass, a reinforcing strip of relatively thick metal disposed within the channel on the base thereof and attached thereto and



oppositely disposed engaging means on said casing and on said strip arranged for interengagement when the channel is moved longitudinally downward into its guiding position on the casing.

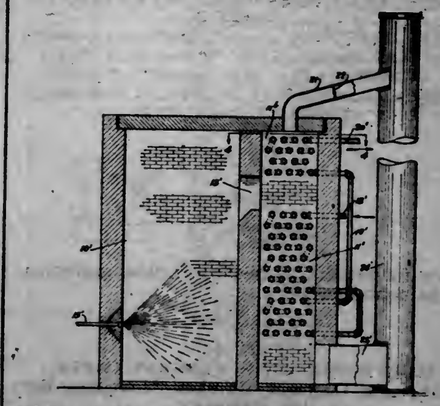
1,921,602
PROCESS FOR HEATING OIL
Benjamin N. Breide, New York, N. Y., assignor to The Superheater Company, New York, N. Y., a Corporation of Delaware
Application October 23, 1926. Serial No. 143,715
2 Claims. (Cl. 196—116)



2. The method of conserving heat in an oil cracking furnace which comprises burning fuel in the furnace with small excess of air, passing liquid water fluid through passages within the furnace for cooling the gases before they reach the oil to be cracked, the liquid water fluid being maintained separate from the oil to be cracked, and allowing the gases to pass, after passing said first mentioned passages around passages through which the oil to be cracked is passing.

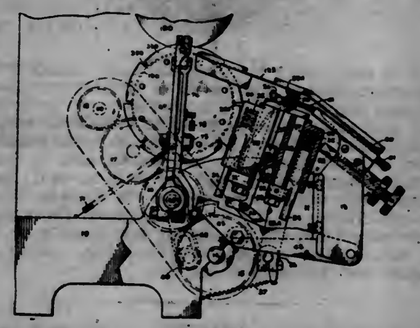
1,921,603
METHOD AND APPARATUS FOR CRACKING OILS
Benjamin Breide, New York, N. Y., and John E. Le Vally, Pittsburgh, Pa., assignors to The Superheater Company, New York, N. Y.
Application November 4, 1926. Serial No. 146,160
9 Claims. (Cl. 196—110)

1. In the art of cracking oil or the like, the process which consists in heating a continuously flowing stream of oil substantially to a predetermined cracking temperature by transferring heat thereto from a stream of heating gases, and thereafter maintaining it substantially constantly at that temperature until cracking is completed by the addition of heat by transferring heat to said oil stream from



substantially stagnant gases taken from said gas stream.

1,921,604
APPARATUS FOR MANUFACTURING MEDICAL SWABS
Earl C. Bunnell, Stratford, and Leslie W. Barnes, Trumbull Conn., assignors to Q-Tips, Inc., New York, N. Y., a Corporation of New York
Application April 2, 1931. Serial No. 527,276
36 Claims. (Cl. 19—145)

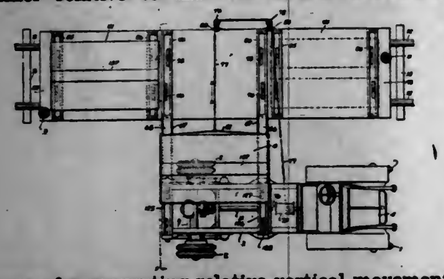


22. In a swab making machine, means for supporting a stick on which a swab is to be formed, means for grasping a wad of cotton and conveying it to a position adjacent said stick, mechanism for bringing the wad and stick into engagement, and means for applying the wad about the stick end by twirling one of said materials while they are in engagement.

1,921,605
MEANS FOR HANDLING AND TRANSPORTING FREIGHT
Kendall E. Canfield, New York, N. Y.
Application November 12, 1928, Serial No. 318,813
Renewed June 18, 1932
6 Claims. (Cl. 214—38)

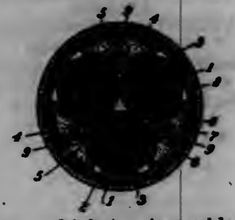
3. A mechanism for handing and transporting freight including in combination a vehicle, a cargo container having supporting shoes with rollers for rolling the container on and off the vehicle, recessed members on the vehicle for receiving the shoes and rollers, the shoes being adapted to cooperate with the recessed members to prevent non-vertical movement of the con-

tainer relative to the vehicle, and additional



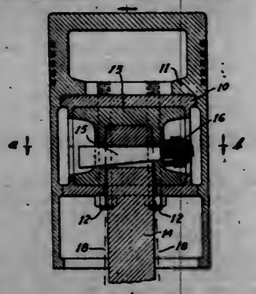
means for preventing relative vertical movement of the container.

1,921,606
MULTICORE HIGH TENSION CABLE
Carl Cremer, Copenick-Wendenschloss, near Berlin, Germany
Application July 9, 1930, Serial No. 466,655, and in Germany November 1, 1928
5 Claims. (Cl. 173—266)



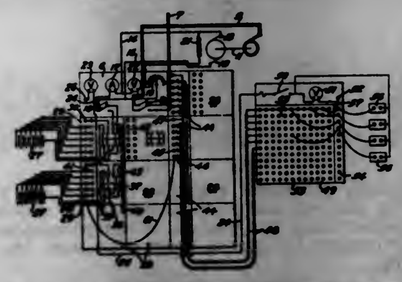
1. A multi-core high tension cable comprising a combination of a plurality of single core cables twisted together and surrounded by an armouring permeable for liquids, each individual single core cable consisting of a conductor, an insulation surrounding said conductor and a lead sheath surrounding said insulation, and lead tubes with walls impermeable for liquids, lying in and filling up the valleys between the single core cables and the armouring and resting closely against the circumference of the individual cables and the armouring.

1,921,607
TRUNK PISTON FOR DIESEL ENGINES
Charles G. Curtis, New York, N. Y.
Application June 23, 1931. Serial No. 546,255
3 Claims. (Cl. 74—168)



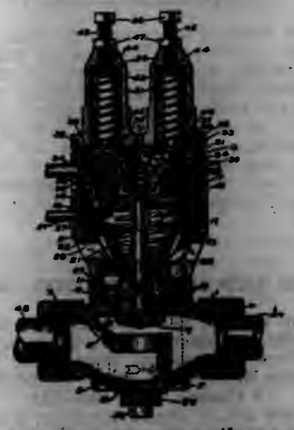
1. An internal combustion engine piston having in combination a wrist pin extending substantially across the piston, a bearing attached to the piston extending substantially the length of the wrist pin and a connecting rod receiving the pressure from the wrist pin and mechanically connected therewith so as to permit a rocking motion of the pin with reference to the rod in the plane of the pin axis, thus permitting the pin to align itself with the bearing.

1,921,608
LABORATORY SWITCHBOARD SYSTEM
Joseph M. Dannheiser, San Francisco, Calif., assignor to Es-B-Es Co., San Francisco, Calif., a Corporation of California
Application June 3, 1929. Serial No. 368,176
6 Claims. (Cl. 171—314)



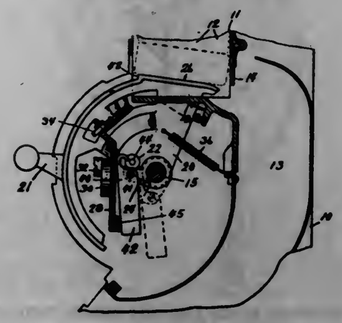
1. A laboratory battery switchboard system comprising a plurality of battery sections, a plurality of panel units corresponding to said battery sections, terminals on each panel unit connecting with taps on the battery section, a constant potential charging line, and a switch on each panel unit for connecting its battery sections optionally in series with a succeeding section or across the charging line.

1,921,609
COMPRESSOR GOVERNOR
Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania
Application August 13, 1928, Serial No. 299,181
Renewed January 25, 1933
21 Claims. (Cl. 137—153)



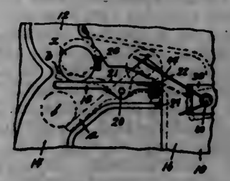
1. In a steam pump governor, the combination with a cylinder casing, of a bushing mounted in said casing, a piston mounted in said bushing, a flange on said bushing resting on said casing, a barrier plate resting on said casing, and a flange on said bushing for clamping said plate to said casing.

1,921,610
DISPENSING MACHINE
Francis C. Du Grenier, Haverhill, Mass.
Application September 26, 1931
Serial No. 565,325
5 Claims. (Cl. 194—2)



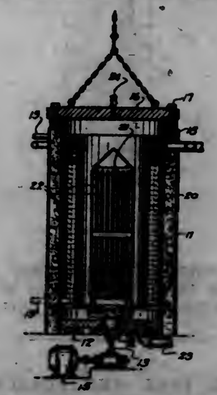
1. In a coin-controlled dispensing machine having a shaft, a series of operating arms each arranged for operative movement from and to an initial position, said arms each having means for engaging the shaft to move the same rotatably in one direction on movement of the arm from said position, locking mechanism normally acting to prevent rotation of said shaft in said direction and coin releasable to permit operative movement of said arms, and means arranged for positive engagement of each arm with said shaft to rotate the shaft in the reverse direction on return movement of the arm to its initial position.

1,921,611
CHECK TESTING MECHANISM
Arthur H. Du Grenier, Haverhill, Mass.; Francis C. Du Grenier, administrator of said Arthur H. Du Grenier, deceased, assignor of one-half to Francis C. Du Grenier and one-half to Blanche E. Bouchard, Haverhill, Mass.
Application October 20, 1931. Serial No. 569,895
6 Claims. (Cl. 194—103)



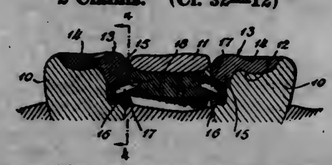
2. In a check-controlled mechanism, a support having a check-entrance passage and a check-receiving, and a check-restoring passage branching therefrom, a weight tester pivotally mounted at the juncture of said passages and having a check-supporting face on its top side arranged to receive a check from said entrance passage intercepting means whereby the check will be supported on said face at the side of the pivot next said receiving passage, and a check of standard weight may tilt the tester towards said receiving passage and be delivered thereto and manually controlled operating means arranged when operated to tilt said tester towards said restoring passage and deliver a check of less than standard weight thereto.

1,921,612
PROCESS OF PRODUCING LAMINATED GLASS
Frank Fraser and George B. Watkins, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a Corporation of Ohio
Application January 19, 1931. Serial No. 509,704
5 Claims. (Cl. 49—81)



1. The process of producing laminated glass, consisting in properly arranging suitably treated laminations in superimposed relationship to produce a sandwich, subjecting the sandwich thus formed to a preliminary pressing operation, then applying a seal to the sandwich, and then subjecting the sandwich including the seal to the action of a fluid under pressure.

1,921,613
DENTAL BRIDGE
Hyman Freedman, Brooklyn, N. Y.
Application April 28, 1930. Serial No. 447,791
2 Claims. (Cl. 32—12)



1. A movable permanent dental bridge, comprising an inlay attached to a natural tooth and having a recess in its pulpal wall which is inclined in a direction toward the foundation of said tooth, an artificial tooth, and a support for the latter tooth which extends therefrom in an inclined direction coincident with the inclination of said recess and which projects into the same, there being a relative movement between said support and the walls of said recess to enable the artificial tooth to move during mastication.

1,921,614
ILLUMINATED ARTIFICIAL PLANT
John Frei, Jr., Chicago, Ill.
Application July 2, 1931. Serial No. 548,538
4 Claims. (Cl. 240—10)

2. In a device of the character described, a source of light, a light transmitting rod in light conducting relation to said light source and comprising a light transmitting portion, a light transmitting and light diffusing portion extending from said light transmitting portion, and a terminal element extending from said transmitting and diffusing portion, said terminal ele-

ment being shaped to in part diffuse the light rays and to concentrate the light rays at one portion of the terminal element to a greater ex-



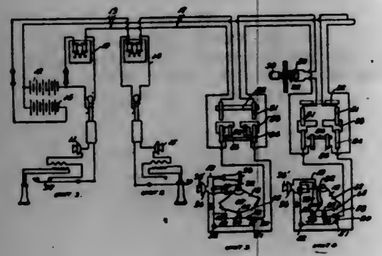
tent than at other portions thereof, whereby one portion of the terminal element is illuminated to a greater extent than other portions thereof.

1,921,615

COMBINED FIRE AND POLICE ALARM SYSTEM

Manious Garl, Akron, Ohio; Linnie Garl, executrix of said Manious Garl, deceased, assignor to Linnie Garl

Application March 26, 1931. Serial No. 525,510
16 Claims. (Cl. 179—5)



1. In a combined fire alarm and police alarm system, a central fire station, a central police station, an alarm box, a normally closed circuit connecting said alarm box with the central fire station, a normally closed circuit connecting said alarm box with the central police station, signal instrumentalities and telephonic instrumentalities in each alarm box adapted to be selectively introduced into either the fire circuit or the police circuit, and a transfer switch for causing selective introduction of the signal instrumentalities and the telephonic instrumentalities into either circuit.

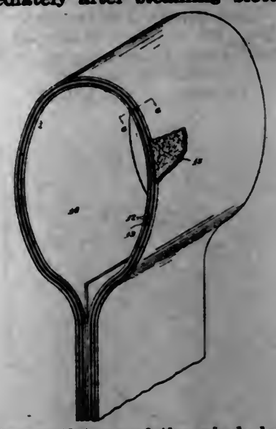
1,921,616

RACKET BOW

Horace W. Hall, Newton, Mass.

Application June 5, 1931. Serial No. 542,253
3 Claims. (Cl. 144—309)

1. A process in the manufacture of racket bows whereby laminations of wood are steamed, and immediately after steaming blotting paper



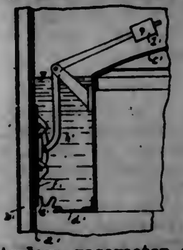
placed between them and the whole bent around a caul to the shape of a bow.

1,921,617

WATERLESS GASOMETER

Georg v. Hanffstengel, Nurnberg, Germany, assignor to Maschinenfabrik Augsburg-Nurnberg A.-G., Nurnberg, Germany, a Corporation of Germany

Application December 28, 1928, Serial No. 329,059, and in Germany January 4, 1928
2 Claims. (Cl. 48—176)



1. In a waterless gasometer adapted for use in storing large quantities of gas in the open under exposure to the elements, and having a shell of substantially circular cross-section and a disc adapted to act as a closure member, a sealing element connected with such disc, which element includes an integral metal ring of substantially uniform cross-section and strength throughout, and therefore capable of uniform circumferential expansion and contraction throughout substantially the whole body of said ring, and means for exerting substantially uniform pressure against the circumferential surface of said ring sufficient to press the same against the inner surface of the gasometer shell and against the inner resistance of the ring, the relation between the external diameter of the ring and the internal diameter of the gasometer being such that said pressure means produces no permanent set in said ring.

1,921,618

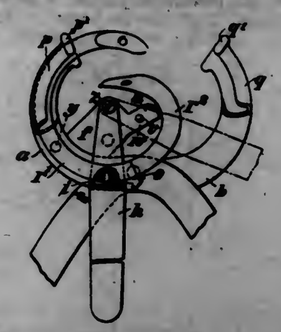
NOSE RING FITTING APPARATUS

Rudolf Hauptner, Berlin, Germany

Application August 9, 1930, Serial No. 474,289, and in Germany August 27, 1929
6 Claims. (Cl. 128—332)

5. An animal ringing device, comprising opposed jaws for gripping an animal, a curved

ring guide on one of said jaws, a lever pivoted to the same said jaw, said lever being engage-



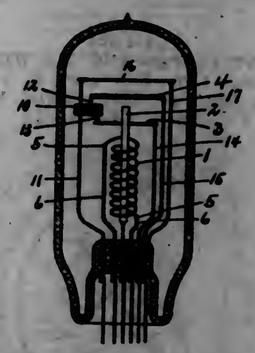
able with an open ring to force one end thereof through the gripped part of the animal.

1,921,619

VACUUM TUBE

Charles J. Kayke, Jackson, Mich., assignor, by mesne assignments, to The Sparks-Withington Company, Jackson, Mich., a Corporation of Ohio

Application May 21, 1928. Serial No. 279,595
4 Claims. (Cl. 250—27.5)



1. A vacuum tube comprising a plate, a grid, a heating element, a cathode within said heating element and adapted to be heated by direct radiation therefrom, a shield electrode interposed between the heater and the grid of the tube said grid and said plate being positioned on the opposite side of said shield from said heating element.

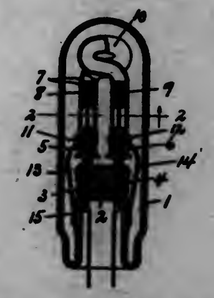
1,921,620

GLOW TUBE APPARATUS

Charles J. Kayke, Jackson, Mich., assignor to The Sparks-Withington Company, Jackson, Mich., a Corporation of Ohio

Application June 4, 1928. Serial No. 282,686
7 Claims. (Cl. 176—122)

1. A glow tube comprising an enclosing bulb, a pair of spaced electrodes within the bulb, a tube having its opposed legs enclosing the electrodes and opening into the bulb and having its intermediate portion formed in a coil through which the low voltage discharge between the electrodes takes place, conductors sealed through the bulb and connected to the electrodes, and insulation surrounding the conductors to a point



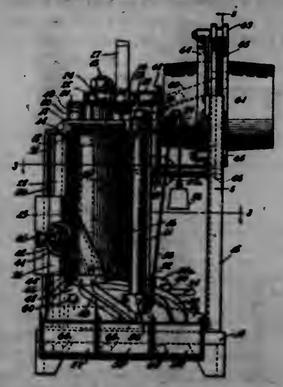
above the lower open ends of the legs of the tube.

1,921,621

APPARATUS FOR CLASSIFYING SPHERICAL ARTICLES

Waldemar D. Kmentt, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York

Application March 29, 1929. Serial No. 350,955
15 Claims. (Cl. 209—97)



1. In apparatus for classifying spherical articles the combination of a pair of downwardly converging walls defining a recess of diminishing width, means for feeding articles into said recess wherein they are engaged by said walls at elevations in accordance with their respective sizes, and means for moving one of the walls laterally of the direction of convergence to remove the articles from the recess selectively according to their respective elevations.

1,921,622

HINGE FOR AUTOMOBILE SEATS

Paul V. Korth, Detroit, Mich.

Application September 19, 1932
Serial No. 633,726
3 Claims. (Cl. 155—7)

3. In a hinge for automobile seats including a pair of corner posts and a pivoted seat back frame, a tubular member adapted to be secured over each corner post, a wing screw carried by the tubular member, and the tubular member being provided with a slot opposite the wing screw, a pivot pin carried by the seat back frame and slidably mounted in the slot, the pivot pin being provided with a recess to receive the end of the wing screw each corner post being pro-

vided with a shoulder and the seat back frame



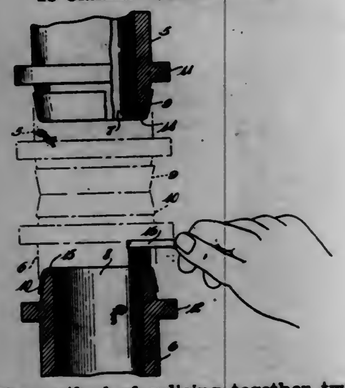
being adapted to engage the shoulder in normal use.

1,921,623

METHOD OF SPLICING RUBBER ARTICLES

Charles W. Leguillon, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York

Application September 20, 1930
Serial No. 483,257
13 Claims. (Cl. 154—14)



12. The method of splicing together two elements, at least one of which is of rubber composition, which comprises applying to at least one of said elements a composition comprising an aqueous dispersion of rubber, effecting passage of foreign particles into the last said composition and coagulation thereof by a rubbing action, and forcing said elements together.

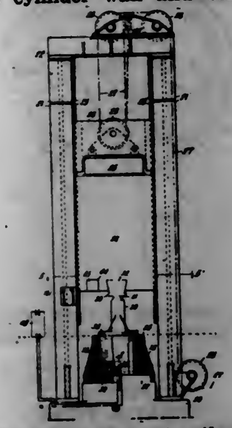
1,921,624

TESTING APPARATUS

Goodrich Q. Lewis, Wheaton, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corperation of Delaware

Application December 3, 1930. Serial No. 499,644
7 Claims. (Cl. 265—2)

7. In a device for testing shock absorbing mechanisms, the combination with means for supporting the shock absorbing mechanism being tested, including a cylinder, a cooperating piston and a substantially non-compressible fluid confined by said cylinder and piston, said cylinder having a bore in one of the walls thereof; of an impact member movable toward and away from said supporting means and adapted to engage said shock absorbing mechanism and compress the same against said supporting means; a holder for a record sheet fixed to said impact member; a record sheet fixed within said holder; an electrical gauge; a sleeve housing said gauge, said sleeve being fixed in the bore of the cylinder wall and being open at



the inner end, thereby exposing the gauge to the fluid within the cylinder; means for tracing a graph on said record sheet while the same is moving with the impact member; and means controlled by the pressure of said gauge for actuating said tracing means.

1,921,625

TAPE DISPENSING MACHINE

Louis Link, New York, N. Y.

Application April 17, 1930. Serial No. 444,930
4 Claims. (Cl. 271—2.4)



1. In a device of the class described, a chamber for a roll of gummed paper and a spindle projecting therefrom, a lever axially mounted in relation to said spindle and having a pivoted finger piece at the free end for rotating the same about said spindle as a center, and in combination with said lever, a disc and means connected therewith for feeding said strip whereby when said finger piece is operated and said lever moved, said disc is rotated, and an adjustable stop for controlling the length of throw of said lever.

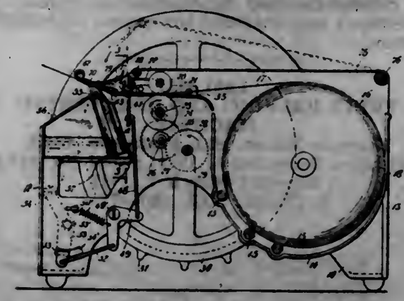
1,921,626

STRIP FEEDING OR DISPENSING MACHINE

Louis Link, New York, N. Y.

Application July 6, 1931. Serial No. 548,965
12 Claims. (Cl. 91—38)

1. In a strip dispensing machine, means for feeding a strip, a moistener, a presser for holding the strip against the moistener during its feeding movement, and means on the presser



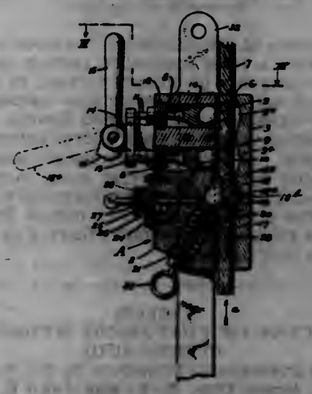
for guiding a label from a position above the presser through said presser and over and in contact with the moistener.

1,921,627

ROPE BRAKE AND LOCK

Napoleon Lucchesi, San Francisco, Calif.

Application April 25, 1931. Serial No. 532,770
5 Claims. (Cl. 188—65)



1. A device of the character described comprising a housing having a passage formed therein for the reception of a cable, said housing having a second passage formed therein and disposed at an acute angle to the first named passage, and a spring actuated braking member disposed in the second passage and engageable with the cable in the first named passage to secure the cable against movement in one direction, said means permitting free movement of the cable in the opposite direction.

1,921,628

PORTABLE ELECTRIC HAMMER

Ralph H. Maxwell and Frederick J. Weidling, Wilmette, Ill.

Application June 6, 1932. Serial No. 615,678
9 Claims. (Cl. 255—42)

1. A portable power hammer comprising a housing, a motor mounted in the housing, a reciprocable sleeve operatively connected with the housing, a reciprocable hammer slidably disposed in the sleeve, a reciprocable piston slidably disposed in the hammer and operatively associated therewith for reciprocating the hammer when the piston is reciprocated, means operatively connecting the piston with the motor for reciprocating the piston when the motor is operated,



and means connected with the sleeve for receiving a tool.

1,921,629

HEADER STRUCTURE AND FASTENING ARRANGEMENT THEREFOR

Neal T. McKee, Bronxville, N. Y., assignor to The Superheater Company, New York, N. Y.

Application December 16, 1929. Serial No. 414,876
10 Claims. (Cl. 122—462)



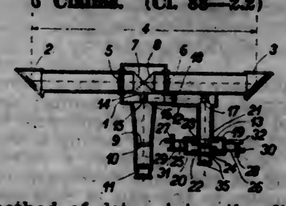
7. In combination, a pair of separable elements adapted to have mutual lateral opposition, a bolt disposed along and between the meeting faces of said elements, and clamping means carried by said bolt having wedging action with said elements to draw them toward each other.

1,921,630

METHOD AND INSTRUMENT FOR DETERMINING THE POSITION OF TARGETS EMITTING SHORT FLASHES OF LIGHT

Robert Mechau, Jena, Germany, assignor to Firm Carl Zeiss, Jena, Germany

Application August 8, 1931. Serial No. 555,930, and in Germany August 30, 1930
6 Claims. (Cl. 88—2.2)



1. A method of determining the direction of targets emitting short flashes of light, consisting therein that a light-retaining substance is provided in the image plane of a telescope, that the telescope is approximately directed upon the

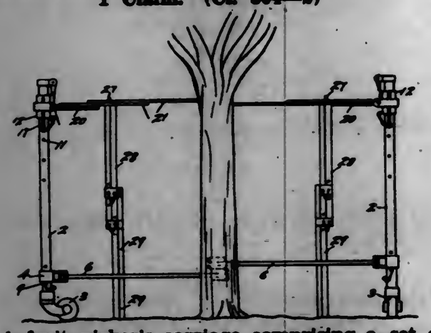
target, and that, finally, the lateral deviation of that point on the layer which is excited by the flashing-up of the target from a known direction, preferably from the direction of the telescope, is measured.

1,921,631

FRUIT PICKER'S CARRIAGE

Claus E. Miller, Los Angeles, Calif.

Application February 27, 1932. Serial No. 595,531
1 Claim. (Cl. 294—2)



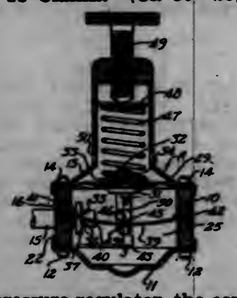
A fruit picker's carriage comprising a set of columns, vertically adjustable and horizontally turnable brackets mounted on said columns, means to sustain the adjusted brackets, braces connected to the columns, and a set of platform elements having mutually lapped ends which are pivotally connected for horizontal, relative adjustment and have, each, a row of bolt holes, concentric about the respective pivots, for reception of bolts to fix the elements in angularly adjusted position.

1,921,632

PRESSURE REGULATOR

Chester Mott, Denver, Colo., and Gerald G. Spencer, Los Angeles, Calif., assignors, by mesne assignments, to Union Carbide and Carbon Research Laboratories, Inc., a Corporation of New York

Application October 26, 1927. Serial No. 228,815
13 Claims. (Cl. 50—26)



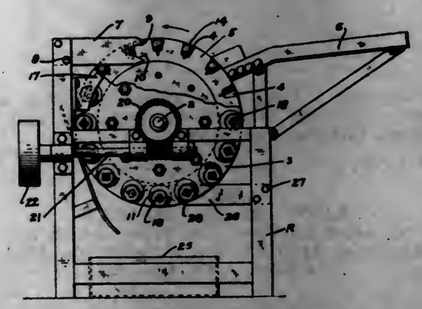
1. In a pressure regulator, the combination of: a body forming a pressure chamber and having an inlet and an outlet; a diaphragm forming a wall of said chamber and having a central stud extending into said chamber; a valve for said inlet having an operating movement in a plane at right angles to the axis of said diaphragm; means for applying a predetermined pressure to the outer surface of said diaphragm; and a single toggle member directly connected to said stud, valve and body for transmitting the movements of said diaphragm to said valve, said toggle member having a free sliding connection with said stud to permit a self-centering of said stud and the diaphragm and functioning to reduce the movements and increase the power transmitted thereby.

1,921,633

FRUIT HALVING AND QUARTERING MACHINE

Herman Nelson, San Francisco, Calif.

Application December 6, 1929, Serial No. 412,194
Renewed March 7, 1933
8 Claims. (Cl. 146—72)



1. A device of the character described comprising a frame, a rotor journalled therein said rotor having a plurality of pockets formed in its outer peripheral surface, said rotor also having a plurality of transverse slots formed therein dividing the pockets into halves, a plurality of knives carried by the rotor, one knife for each pocket and aligned and guided by the transverse slots, means normally maintaining the knives retracted with relation to the pockets, and other means for transmitting a reciprocal movement thereto so as to cut the fruit into halves.

1,921,634

PROCESS OF PREPARING HYDRATED CITRIC ACID

Richard Pasternack, Brooklyn, N. Y., Francis L. Mead, Jersey City, N. J., and John L. Davenport, Brooklyn, N. Y., assignors to Charles Pfizer & Company, Brooklyn, N. Y., a Corporation of New Jersey

No Drawing. Application July 15, 1931
Serial No. 551,046
9 Claims. (Cl. 260—112)

1. In the evaporation of an aqueous citric acid solution, the process of varying the hydration of the product which consists in maintaining the absolute pressure of the evaporation below that of the atmosphere, and within ranges of pressure which do not include the transition point of 1¼ inches of mercury, while crystallizing citric acid.

1,921,635

BLUING COMPOSITION AND PROCESS

Robert A. Phair, Allendale, N. J., assignor to H. Kohnstamm & Co., Inc., New York, N. Y.

No Drawing. Application April 19, 1929
Serial No. 356,004
5 Claims. (Cl. 8—6)

1. A laundry bluing composition including ammonium sulphate and a laundry blue said laundry blue being adsorbed on said ammonium sulphate in the proportion of one pound of the blue to between fifty and one hundred and twenty-five pounds of ammonium sulphate.

1,921,636

AEROPLANE

Maurice Quemin, Le Mans, France

Application February 16, 1932, Serial No. 593,216, and in France February 18, 1931
3 Claims. (Cl. 244—12)



2. In an aeroplane wing, the combination of a pivotal deflecting plate provided at the front edge of the wing, with a small auxiliary supporting surface located above and slightly behind said deflecting plate, such that the underside of said small auxiliary supporting surface is subjected to the action of the air deflected by the said deflecting plate.

1,921,637

COMBINATION HOUSE CLEANER

Harry Ranish, Los Angeles, Calif.

Application October 24, 1931. Serial No. 570,879
5 Claims. (Cl. 15—131)



1. A device of the character set forth comprising a container having a bushing housed therein; a valve operable in said bushing; a brush fixed to said container and a handle to press downward to operate said valve to permit liquid to flow from the container and means to rotate the brush by its friction when contacting other objects and a hinged stop having a downward extension over which fits a forked latch which is held by a lock screw to prevent the brush and container from rotating when desired by the operator.

1,921,638

BASIC BISMUTH COMPOUND OF CAMPHO-CARBONIC ACID

George W. Raiziss and Le Roy W. Clemence, Philadelphia, Pa., assignors to Abbott Laboratories, North Chicago, Ill., a Corporation of Illinois

No Drawing. Application May 19, 1930
Serial No. 453,254
3 Claims. (Cl. 260—11)

1. A bismuth campho-carbonate containing from 39% to 40% of bismuth.

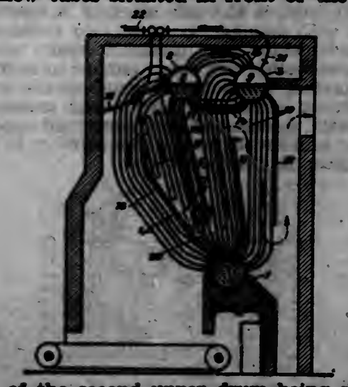
1,921,639

WATER TUBE BOILER

Adalbert Schmidli, Winterthur, Switzerland, assignor to the Firm Sulzer Freres Societé Anonyme, Winterthur, Switzerland

Application August 18, 1931, Serial No. 557,828, and in Switzerland and Germany August 19, 1930
5 Claims. (Cl. 122—302)

1. Vertical water-tube boiler comprising at least two upper drums belonging to a joint lower drum and partly filled with water, characterized in that the upflow tubes leading from the lower drum to the upper drums terminate partly in the steam space of the upper drums, and that downflow tubes are provided leading from every upper drum to the lower drum and situated behind the upflow tubes of the respective upper drum, the downflow tubes situated in front of the upflow



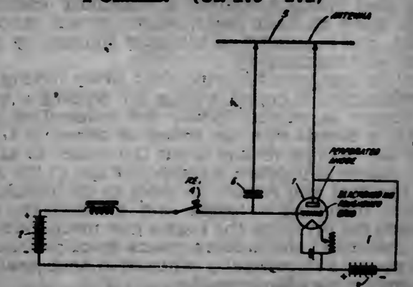
tubes of the second upper drum being shielded from the action of flue gases by being insulated on the side of the upper drum.

1,921,640

TRANSMITTER TUBE FOR ULTRA-SHORT WAVES

Fritz Schröter, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany

Application March 9, 1933, Serial No. 660,144, and in Germany December 29, 1931
4 Claims. (Cl. 179—171)



4. An ultra short wave communication circuit for transmitting modulated oscillations of the order of a meter and less, comprising an electron discharge device having a cathode, anode and control electrode, means for applying a high positive potential to said control electrode and a much lower potential to said anode relative to said cathode, the surface of said control electrode being treated for aiding thermal radiation and said anode being perforated whereby there is obtained a reduction in capacity between said anode and control electrode, and suitable modulating apparatus intermediate said control electrode and said means for affecting the oscillations to be transmitted in accordance with the desired message to be transmitted.

1,921,641

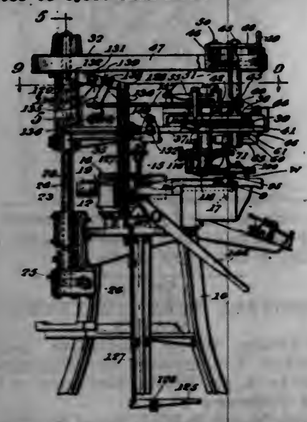
HEEL-CONCAVING MACHINE

John W. Staples, Haverhill, and Walter C. Brooks, Groveland, Mass., assignors to Pope Machinery Corporation, Haverhill, Mass., a Corporation of Massachusetts

Application November 19, 1931
Serial No. 576,000
14 Claims. (Cl. 12—46)

1. In combination, a cutter, means for holding a heel, means for actuating the holding means

to move the heel about the cutter in a predetermined path, an ejector movable to engage and eject the heel, a movable member, a spring for causing said member to move into engagement with said ejector, and means adapted to move into engagement with said member to move the latter against the action of said spring and to move out of engagement with said member as said heel reaches a predetermined position whereby said spring causes said member to move said ejector to eject said heel.



9. In combination, a cutter, means for holding a heel, a shaft adapted to be rotated to actuate said holding means, a manually operable arm fixed on said shaft, power driven mechanism, and means for detachably connecting said arm and mechanism.

10. A machine for concaving heels having, in combination, a cutter, means for holding a heel, a source of power, means for connecting the holding means with the source of power to actuate the holding means about the cutter to cause the cutter to produce a concaving cut in the seat of the heel and return the heel to its initial position including a toggle link mechanism, and means for breaking the toggle link mechanism to to disconnect the holding means from the source of power automatically when the heel has returned to its initial position.

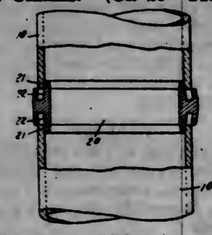
1,921,642

PIPE JOINT AND METHOD OF FORMING SAME

Laurence E. Stephenson, New York, N. Y., assignor to Frederick Snare Corporation, New York, N. Y., a Corporation of New York

Application July 6, 1931. Serial No. 549,461

12 Claims. (Cl. 29—148.2)



3. A pipe joint comprising two pieces of cylindrical pipe and an interposed collar, said collar having portions fitting the inside of the pipe oppositely inclined from a diameter substantially the same as that of the inside of the pipe to a different diameter, and an annular band projecting from the collar between the parts thereof of different diameter forming shoulders, with the end portions of the pipe bent into contact with said inclined portions of the collar and with the ends of the pipe abutting said shoulders.

10. A substantially cylindrical collar for joining sections of pipe constructed with annular pockets, the walls of which are inclined from the axis of the collar, and an annular band forming shoulders between said pockets.

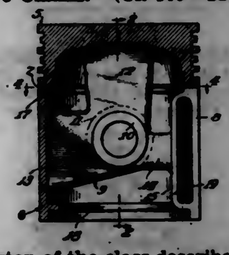
1,921,643

PISTON

Macy O. Tester, Newcastle, Ind., assignor to The Perfect Circle Company, Hagerstown, Ind., a Corporation of Indiana

Application January 24, 1931. Serial No. 510,900

6 Claims. (Cl. 309—11)



1. In a piston of the class described, a skirt and a head with a circumscribing slot between the same, the skirt having a longitudinal slot, vertical webs connected to said skirt only at their upper and lower ends, and flexible struts depending from said head and each including a laterally projecting arm connected at its outer end to one edge of its respective web and forming a right angle with the web.

1,921,644

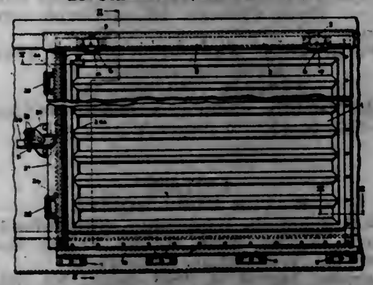
CAR DOOR CONSTRUCTION

Kenneth J. Tobin and Axel Wasberg, Chicago, Ill., assignors to Camel Company, Chicago, Ill., a Corporation of Illinois

Application September 20, 1929

Serial No. 393,915

18 Claims. (Cl. 189—46)



16. In a house car having a door opening with a sliding door for closing said opening, a weather strip upon the front margin of the door, a combined sealing and latching member hinged to the car beyond the forward end of said door opening and swingable over said weather strip when the door is closed, said weather strip and sealing member having interengaging parts for preventing relative longitudinal movement thereof and means for latching said member to said car.

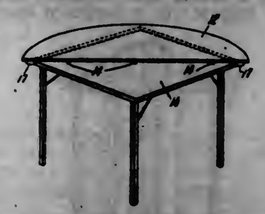
1,921,645

SUPPLEMENTAL TABLE TOP

Merton Francis Williams and Cyrus Farley Morse, Danvers, Mass.

Application February 9, 1933. Serial No. 655,884

1 Claim. (Cl. 45—31)



A sectional secondary table top composed of a plurality of sections of relatively thin material, provided with connecting means for maintaining the top in an operative opened condition, and permitting it to be folded for storage, said secondary top when opened, being adapted to rest loosely on a square primary table top of smaller area, cleats fixed to the undersides of said sections, said cleats having inner faces substantially perpendicular to the secondary top, said cleats collectively forming, when the secondary top is opened, a square inwardly facing stop wall arranged to loosely abut only the four marginal edges of the square primary table top when the secondary top is placed thereon, and thereby oppose horizontal movement of the secondary top in any direction relative to the primary top without opposing the lifting of the secondary top from the primary top, said cleats stiffening the secondary top and preventing it from warping.

1,921,646

WATERPROOF CLOTHING

George S. Yeaton, Dorchester, and Louis Blauer, Arlington Heights, Mass., assignors to American Rubber Company, Cambridge, Mass., a Corporation of Massachusetts

Application July 14, 1932. Serial No. 622,466

1 Claim. (Cl. 2—87)



A closure for weatherproof clothing comprising a pair of overlapping flaps, the inner flap having its edge bent outwardly to form a channel, rivets and spacing elements for maintaining the channel in an open condition, and cooperating fastening means carried by the flaps, said fastening means being disposed laterally of the mouth of the channel whereby the outer surface of the channel bears against the inner surface of the outer flap when the flaps are closed.

1,921,647

IMAGE PLATE HOLDING CHAMBER FOR APPARATUS FOR MEASURING PHOTOGRAMS

Walther Bauersfeld and Otto von Gruber, Jena, Germany, assignors to the Firm Carl Zeiss, Jena, Germany.

Application August 26, 1931, Serial No. 559,503, and in Germany September 3, 1930

3 Claims. (Cl. 88—29)



1. A chamber for apparatus for viewing photograms, a group of image plates lying in different planes and being supported by the said chamber, one single objective rotatably mounted on the said chamber about an axis which is inclined against the optical axis of this objective, and means for adjusting at least one of the image plates of the said group relatively to the said objective in a plane at right angles to the axis of rotation of the said objective.

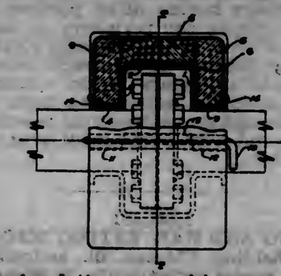
1,921,648

PIPE INSULATION

George R. Baumeister, Boston, Mass.

Application January 4, 1933. Serial No. 650,202

6 Claims. (Cl. 154—44)



1. Pipe insulation comprising a plurality of sections, each of which is composed of an integral solid water-tight piece of metal, adapted to encircle a pipe fitting, said sections being so formed that insulating material may be attached to the exterior thereof in such a manner that substantially no metal is exposed.

1,921,649

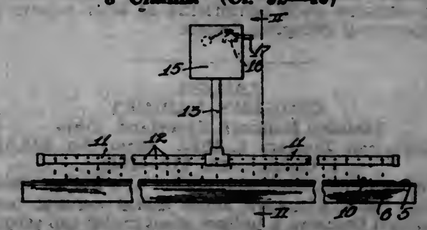
METHOD OF MOTTLING PAPER

Nils Folke Becker, Rhinelander, Wis., assignor to Rhinelander Paper Company, Rhinelander, Wis., a Corporation of Wisconsin

Application November 10, 1932

Serial No. 641,959

8 Claims. (Cl. 92—40)
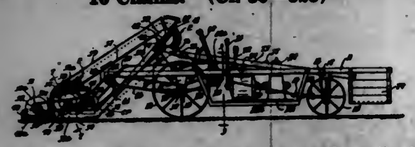


1. An ornamental parchment paper, spots occurring over the surface of said paper, said spots being thinner and more translucent than the remaining surface of said paper.

1,921,650
PICKING MACHINE
Arthur J. Behling, Chicago, Ill., assignor, by direct and mesne assignments, to Pioneer Fruit Harvesting Company, a Corporation of Minnesota
Application April 7, 1928, Serial No. 268,195
Renewed April 11, 1932
13 Claims. (Cl. 56—327)



1. In a device of the class described, a main frame, means for supporting said main frame for movement over the ground, means for rotatably supporting a drum at the forward end of said main frame, means for supporting pulleys on said main frame in spaced relation to said drum, co-operating endless belts directed around said drum and said pulleys, supporting members mounted on at spaced apart intervals and extending between said belts, picker members comprising a plurality of spaced apart arms pivotally mounted on said supporting members, a stationary picker member mounted at the forward end of said machine, said stationary picker member comprising a plurality of spaced apart arms, said spaced apart arms on said movable picker members having offset portions thereon adapted to engage the periphery of said drum whereby said arms of said movable picker members may be disposed in the spaces between the arms of said stationary picker member, and means for operating said endless belts whereby said movable picker members may be successively moved into and from engagement with said stationary picker.

1,921,651
PICKING AND HARVESTING MACHINE
Arthur J. Behling, Chicago, Ill., assignor, by direct and mesne assignments, to Pioneer Fruit Harvesting Company, a Corporation of Minnesota
Application January 22, 1932. Serial No. 588,102
16 Claims. (Cl. 56—328)



1. In a picking machine, an endless flexible element, means for driving the same and a series of picker elements mounted on said endless flexible element each comprising at least a pair of cooperating grasping fingers.

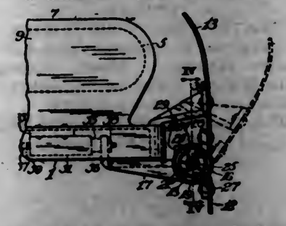
1,921,652
SMOKER'S CABINET
Stephen Bohnert, Cleveland, Ohio
Application January 3, 1933. Serial No. 649,937
1 Claim. (Cl. 312—191)

In a cabinet, the combination of a hollow sheet metal base, a hollow sheet metal central post mounted thereon, a hollow sheet metal top structure supported on the upper end of the post, the upper plate of the base and the lower plate of the top structure having slots therein and the ends of the post having tongues projecting through said slots and bent over against the plates to fasten the base, top structure and post together, a central shaft extending through the post and the hollow top structure and provided with a knob at the top, a crank disk mounted on the shaft within the hollow top, a series of doors forming



the side wall of the cabinet and having posts journaled at their opposite ends in the top and base structures, and crank arm connections enclosed within the hollow top between the upper ends of the door posts and the disk, whereby the doors may be swung to open or closed position by turning the knob.

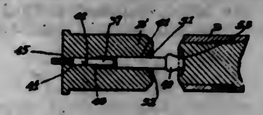
1,921,653
KNUCKLE-JOINTED SAFETY MOTOR-VEHICLE BUMPER
Clarence F. Boyer, Bloomington, Ill., assignor of one-third to Andrew M. Ryan, Bloomington, Ill.
Application February 11, 1932. Serial No. 592,344
4 Claims. (Cl. 293—55)



1. A motor-vehicle bumper including a cylindrical main part having an arm rigid thereon to support the part and a hinge ring rotatively guided upon and by the main part, a bumper guard arm rigidly secured at one end to the hinge ring, and a coil spring vertically encased in the main part and the ring and anchored at its lower end to the main part and at its upper end to the hinge ring under tension.

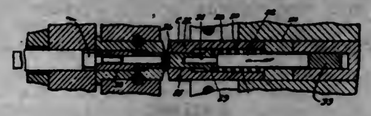
1,921,654
MANUFACTURE OF BOLTS, SCREWS, AND THE LIKE
Louis S. Burbank, deceased, late of Worcester, Mass.; by Davis E. Burbank, administrator, Worcester, Mass., assignor, by mesne assignments, to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut
Original application June 7, 1928, Serial No. 283,469, now Patent No. 1,892,445, dated December 27, 1932. Divided and this application April 8, 1931. Serial No. 528,617
13 Claims. (Cl. 10—27)

1. An improved method of continuously forming bolts, screws, and the like, which consists in presenting an elongated metal blank of predetermined length and uniform diameter to the successive actions of cooperating punches and dies which progressively develop the blank by extru-



sion and upsetting to form a point and a tenon portion and by successive upsetting operations to form a body portion and a head on said blank of different diameters and of different lengths.

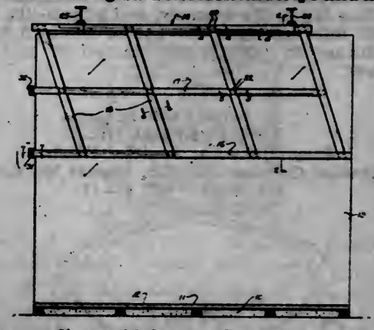
1,921,655
MACHINE FOR FINISHING THE HEADS OF BOLTS, SCREWS, AND THE LIKE
Louis S. Burbank, deceased, late of Worcester, Mass.; by Davis E. Burbank, administrator, Worcester, Mass., assignor, by mesne assignments, to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut
Original application June 7, 1928, Serial No. 283,469. Divided and this application April 10, 1931. Serial No. 529,162
4 Claims. (Cl. 10—20)



1. In a machine of the class described for finishing the head of a blank having a shank, a pair of trimming tools consisting of a stationary trimming punch that receives the shank of the blank and a reciprocating trimming punch, means to reciprocate the punch and thus cut the head of the blank placed between said tools from opposite sides and to stop cutting before the opposing trimming edges meet, means made operative while the trimming is in progress to move the head of the blank completely into the trimming punch whereby the blank may be supported and carried away from the other tool and during the carry movement positively maintain its axial alignment therewith, means for withdrawing said punch with said blank frictionally held therein, to clear the blank from said die and means to finally eject said blank from the punch and into the open space between the tools.

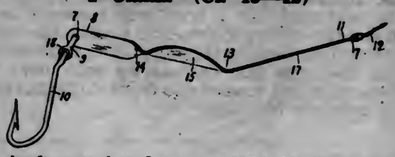
1,921,656
STORAGE RACK
Charles D. Burrell, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a Corporation of Ohio
Application November 16, 1930
Serial No. 496,536
9 Claims. (Cl. 211—41)

1. In a storage rack for glass sheets or the like, means for supporting the sheets in a vertical position and for preventing lateral movement of the lower edges thereof, vertically disposed retaining frames mounted above said supporting means and adapted to receive the upper edges of the sheets therebetween, each retaining frame consisting of a plurality of horizontally arranged strips and a plurality of substantially vertical strips connecting said horizontal strips and means



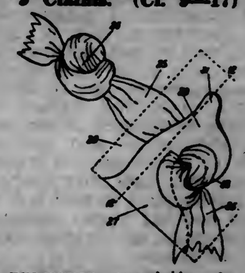
for suspending said frames from the upper ends thereof.

1,921,657
FISH LURE
Jules Cataran, Seattle, Wash.
Application June 15, 1931. Serial No. 544,349
1 Claim. (Cl. 43—42)



A body member for an artificial bait, said body member consisting of a strip of metal having an obtuse bend at a point intermediate its ends thereby defining forward and rear portions, the major axes of said portions being in alignment, the forward portion being provided with leader attaching means and the rear portion being provided with hook linking means and further provided with a twist whereby said rear portion is provided with sections disposed at right angles to each other.

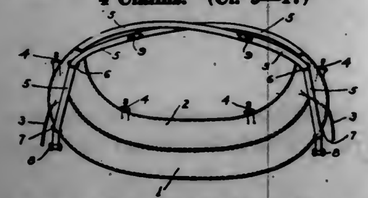
1,921,658
LIFE PRESERVER
Jules Cataran, Seattle, Wash.
Application December 12, 1931. Serial No. 580,648
9 Claims. (Cl. 9—17)



9. A life preserver, consisting in an envelope endued with the property of buoyancy and adapted to encircle the body of a person on and above the waist line and connected over the shoulders, a combination of said envelope and a tape, or like appendage, and a hook-like gapped frame; said tape being secured by one end to a convenient part of said envelope and having a plurality of bulges set in series, said hook-like frame being secured to another portion of the envelope and having its point 31 rising from the level sur-

face of the envelope so as to receive (catch) said tape in a latch-like manner, and a barb-like projection intervening in the gap of the said hook-like frame, to prevent the escape of said appendage.

1,921,659
LIFE PRESERVER
Jules Cataraa, Seattle, Wash.
Application October 31, 1932. Serial No. 640,509
4 Claims. (Cl. 9—17)



1. A life preserver, consisting of an envelope endued with the property of buoyancy and adapted to encircle the body of a person on and above the waist line, with a combination of said envelope and two straps integrated each by one end to the said envelope in front and intended to be worn slidably about the neck in a yoke-like manner ascending each over a shoulder, intersecting behind the neck and descending each over the opposite shoulder toward the front, to be fastened to the envelope in front.

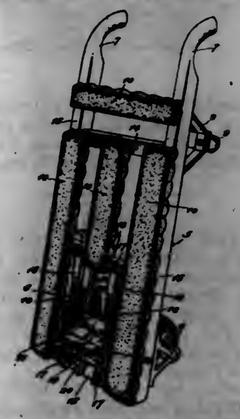
1,921,660
MOTOR VEHICLE
Harold D. Church, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio
Application April 28, 1930. Serial No. 448,079
8 Claims. (Cl. 180—22)



1. In a motor vehicle, the combination of a transverse member, longitudinally extending structures pivotally associated with the ends of said member, a shaft journalled in each end of each of said structures, a vehicle wheel and a worm wheel mounted on each of said shafts, a differential carried by said member, differentials having master gears in the form of worm wheels carried by said structures, means for driving the master gear of said first named differential, shafts connected to different driven gears of said first named differential and carrying worms meshing with the master gears of the differentials carried by said structures, and shafts connected to different driven gears of said last named differentials and carrying worms meshing with the worm wheels mounted on the shafts journalled in ends of said structures.

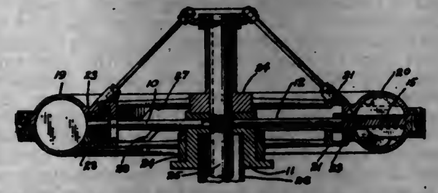
1,921,661
HAND TRUCK
Leland C. Conner, Orangeville, Pa.
Application April 16, 1932. Serial No. 605,752
2 Claims. (Cl. 280—57)

1. A hand truck comprising a wheel-and-handle-equipped frame, two laterally spaced longitudinal bars secured to said frame, the front sides of said longitudinal bars being provided with teeth, a load-support lying against the toothed front sides of said longitudinal bars and having teeth engageable with any of the aforesaid teeth, a third longitudinal bar secured to said frame between said two longitudinal bars, said third bar being disposed behind said load-support, guide means on said load-support slid-



ably engaging said third longitudinal bar, and means carried by said guide means and engaging the rear side of said third bar to normally hold said load-support against forward movement, thereby holding the teeth of said load-support engaged with those of said two longitudinal bars.

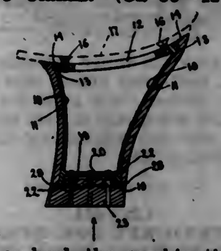
1,921,662
ROTARY STEAM ENGINE
Milford L. Darr, Oakland, Calif.
Application September 10, 1930
Serial No. 480,877
2 Claims. (Cl. 121—56)



1. A rotary motor comprising a stator having a packing section, a flat annular wall about the perimeter of said packing section, a rotor mounted concentric with relation to the stator and having a circular cylinder enclosing said wall whereby the latter will divide the cylinder along its axis, a rim section on the cylinder embracing the packing section, packing means between the rim section of the cylinder and the packing section of the stator, said wall having a plurality of openings formed therein, a rotatable abutment in each opening conforming to the contour thereof and to the contour of the bore of the cylinder, said rotatable abutments being of a thickness agreeing with the thickness of the wall and so mounted that they may lie in the same plane as the wall with the surfaces thereof flush with the surfaces of the wall, a plurality of vanes fixed in the cylinder and arranged at right angles to the axis thereof and spaced equal distances apart about the circumference of the cylinder to divide the space between the wall and the interior surface of the cylinder, a pair of annular flanges on the rotor cooperating to form a cam

track, a cam shoe fixed with relation to the axis of each rotatable abutment and adapted to cooperate with said track whereby the rotatable abutments will be in the plane of the wall when they register with the cylindrical vanes and at right angles to the plane of the wall while out of register with the cylinder vanes.

1,921,663
SHOE HEEL
Theologue G. Dascopoles, Boston, Mass.
Application April 19, 1932. Serial No. 606,204
3 Claims. (Cl. 36—41)



1. In a shoe heel, the combination of a body element one end of which is attachable to a shoe and having a socket formed in its opposite end surrounded by a ledge having a plane surface; means for attaching the body to the shoe; a top lift of resilient material molded with a convex wearing surface, and an opposite shelf surface adapted to engage initially with the socketed end of the heel body, outside the socket and linearly near the outline of the ledge, said top lift being provided with a projection adapted to engage peripherally with the socket and of less height than the depth of the socket; and means for attaching the lift to the body element to present a substantially plane wearing surface and to engage the opposite shelf surface with the entire surface of the ledge on the heel body.

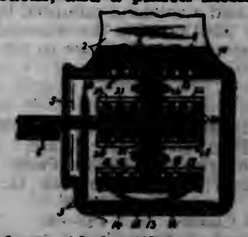
1,921,664
SPRINGBOARD
Edwin P. Finigan, San Francisco, Calif.
Application June 17, 1932. Serial No. 617,792
8 Claims. (Cl. 272—66)



1. In a spring board for divers, a frame structure, means for securing one end of said board to said frame, an inclined track, a fulcrum member mounted on said track and adapted to support said board at predetermined intermediate points, and means for moving said fulcrum member along said track.

1,921,665
SPRING SHACKLE
Frank E. Fisher, Elmira, N. Y.
Application November 21, 1932
Serial No. 643,636
4 Claims. (Cl. 267—54)

1. A shackle for vehicle springs comprising a housing adapted to be secured to the chassis frame of the vehicle and provided with an opening for receiving one end of the spring, vertically spaced bearing blocks mounted on the vehicle spring and housing respectively and provided with central lengthwise toothed racks and straight lengthwise tracks at opposite sides of their respective racks, and a pinion meshing with said



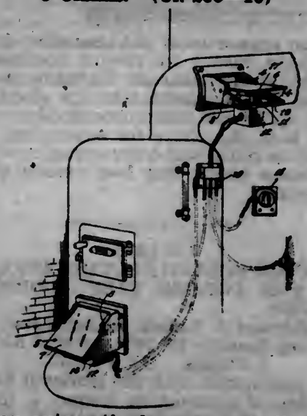
racks and provided with oppositely projecting trunnions engaging said tracks.

1,921,666
OIL BURNER
Antonio Franceai, Providence, R. I.
Application August 31, 1931. Serial No. 560,261
5 Claims. (Cl. 158—33)



1. A device of the character described, comprising an annular fuel burner, a brace member for said burner, a support for said burner extending through said brace member, a pair of arc-shaped preheating troughs disposed in a unilateral plane beneath said burner, an offset pierced lug at one end of each said troughs and a stud adjacent said support and carried by said brace member, and receivable in said lugs for pivotally mounting said troughs.

1,921,667
AUTOMATIC TEMPERATURE REGULATOR
Fred A. Gasten, Micanopy, Fla., assignor to Atlas Foundry Company, Irvington, N. J., a Corporation of New Jersey
Application November 18, 1932
Serial No. 643,157
5 Claims. (Cl. 236—16)



1. In an automatic damper controlling device, a casing having a cover pivotally mounted off

center thereon, a box mounted on the underside of the casing, and a solenoid mounted in the box, a core slidably positioned in the solenoid, and resilient means connecting the core to the cover.

1,921,668

ORGANIC COMPOUND AND METHOD OF TREATING THE SAME

James H. Gravell, Elkins Park, Pa.

No Drawing. Application May 15, 1931 Serial No. 537,758

3 Claims. (Cl. 148—8)

1. The method of preparing a metal pickling bath comprising a pickling acid and water with a regulator for selectively controlling the action thereof, which consists in dissolving in an acid solution of greater strength than the bath a predetermined quantity of a selective solid control material which is insoluble in water and soluble weakly in the acid bath the amount of material being in excess of that capable of being dissolved by the bath strengthened by the addition of the solution thereto, adding the solution to the relatively weak acid bath so as to effect the absorption by the bath of the acid of the solution, and causing by the differential solvent capacity between the normal and strengthened bath the precipitation of the excess of control material in the bath in the form of finely divided dispersed particles having the property of floating in the bath and remaining suspended therein by the action of the natural circulation of the bath.

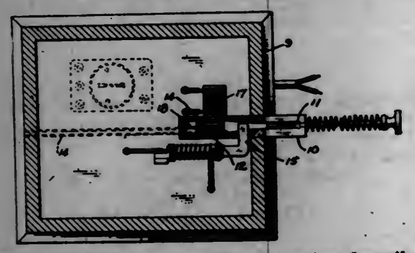
1,921,669

METHOD AND APPARATUS FOR SEPARATING COINS

Chester E. Gray and Grover D. Turnbow, Oakland, Calif.

Application October 29, 1930. Serial No. 491,876

5 Claims. (Cl. 194—100)



5. In an apparatus of the character described, a coin chute, means for forcing a coin through the chute, a thermocouple including a coin in the chute, means actuated by the electromotive force set up by said thermocouple when a genuine coin is in the chute for separating genuine and spurious coins, said coins engaging said separating means before they lose contact with said thermocouple.

1,921,670

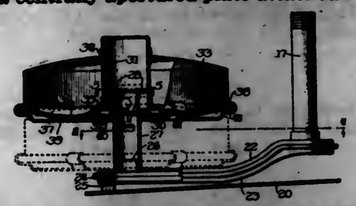
FLOAT-CONTROLLED SUCTION INTAKE DEVICE FOR FORCED FEED LUBRICATING SYSTEMS

Edward J. Gulick, Elkhart, Ind.

Application January 29, 1932. Serial No. 589,689

4 Claims. (Cl. 184—6)

1. In combination with the lubricant container of an internal combustion engine, a fixed upright tubular float guide mounted in said container, said float guide formed with lateral guide lugs and with a lateral port slightly below its upper end, a float formed with a central upright sealing sleeve encircling and spaced from said float guide and slidably engaged with said guide lugs, a centrally apertured plate attached to said



float and having its inner periphery slidingly engaged with said float guide, said plate being provided with suction inlet ports for the flow of lubricant to the lower end of said sealing sleeve, and a suction pipe communicating with the lower end of said float guide.

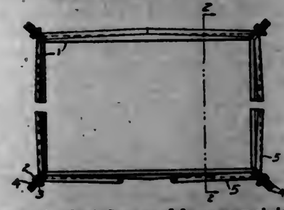
1,921,671

OVERJACKET FOR MOLDS

Frank W. Hamel, Detroit, Mich.

Substitute for application Serial No. 438,471, March 24, 1930. This application August 31, 1932. Serial No. 631,255

2 Claims. (Cl. 22—112)



1. An overjacket for molds comprising opposed side and opposed end walls forming a substantially rectangular frame, each of said walls being integrally formed with flanges outwardly projecting in a substantially diagonal relation to said rectangular frame, the opposed walls being downwardly divergent and said flanges being substantially vertical, said flanges having substantially the full height of said walls, the adjacent flanges of adjoining walls being formed with registered openings, and a connecting member mounted loosely in said openings of each pair of adjacent flanges, maintaining the adjacent relation of said flanges and affording the connected walls adequate relative play to adapt the jacket to conform itself to different molds.

1,921,672

BALL MILL LINING

Fred L. Hanshalter, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York

Application December 21, 1931. Serial No. 582,236

8 Claims. (Cl. 83—9)



1. The combination of a ball mill and an abrasion-resistant lining therefor, said lining com-

prising spaced longitudinal slabs of resilient rubber material having the major portions of their faces exposed to abrasion and their longitudinal margins clamped to the shell of the mill by bars fastened thereto, said bars being formed to engage and retain a quantity of grinding balls to maintain the elevation of the flights above the rubber surface during the operation of the mill.

1,921,673

SCORING DEVICE FOR CONTRACT BRIDGE

Harald Heering, Copenhagen, Denmark

Application March 2, 1931, Serial No. 519,698, and in Denmark December 9, 1930

4 Claims. (Cl. 235—60)



1. A scoring device for use in contract bridge comprising a substantially flat elongated carrier provided at its longitudinal edges with frame parts constituting together with the carrier itself a slide way, an elongated reciprocatory slide inserted in said slide way, the carrier at the part inside the frame part being provided with numbers or figures representing points to be scored for different tricks, said figures for normal play, when doubled or when redoubled, respectively, being arranged in three parallel columns extending in the longitudinal direction of the carrier, the figures themselves extending in a transverse direction, said slide having an opening extending transversely thereof and corresponding to the transverse extension of the three columns and having a height corresponding to the height of the figures, whereby it may reveal three and only three juxtaposed figures simultaneously.

1,921,674

PAPER FASTENER

Frederick C. Heuwen, Morris Plains, N. J., assignor to The Bates Manufacturing Company, West Orange, N. J., a Corporation of New Jersey

Application February 10, 1933. Serial No. 656,078

10 Claims. (Cl. 24—153)



1. A keeper for a paper fastener comprising a substantially rectangular plate having horizontal lateral edge portions located in the same plane, a longitudinally extending depressed portion disposed between said lateral edge portions and terminating short of the ends of the plate, and end sections each comprising an inner portion joined to the adjacent end wall of the depressed portion and to said lateral edge portions and disposed in the same plane as the latter and an outer portion inclining abruptly downwardly from said inner portion substantially to the plane of said depressed portion.

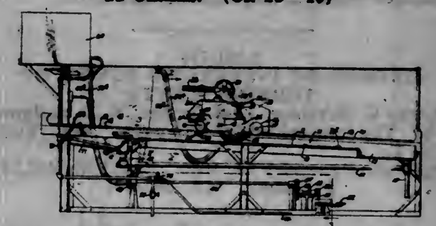
1,921,675

MACHINE FOR CLEANING WINDOW SHADES

Harry L. Howell, Chicago, Ill., assignor of one-third to William J. Weichel, Elgin, Ill., one-sixth to Adam Sterck, Chicago, Ill., and one-sixth to Francis J. Waehter, Chicago, Ill.

Application November 19, 1932 Serial No. 643,358

11 Claims. (Cl. 15—40)



1. In a cleaning mechanism, a table adapted to hold a flat article to be cleaned, a carriage adapted to move back and forth over the table, a rotary brush carried by the carriage, a soap supply, a water supply, and a valve for alternately connecting said soap and water supply so as to alternately deliver soap or water to the table.

1,921,676

DETERGENT COMPOSITION OF MATTER

Maxwell M. Kahn, Belleville, N. J.

No Drawing. Application March 7, 1930 Serial No. 434,160

5 Claims. (Cl. 167—91)

1. A cleansing and massaging cream for the skin comprising a mixture containing substantially 2 parts by volume of rubber latex dispersed in liquid phase and 5 parts by volume of a vanishing cream, the latter containing stearic acid, potassium carbonate and glycerine, and an alkali in sufficient quantity to keep the mixture alkaline, whereby, while said latex retains its coagulative property it is prevented from coagulating until evaporation of the dispersing medium of the latex occurs.

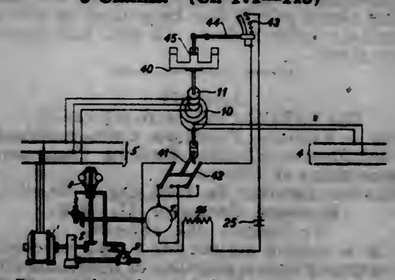
1,921,677

PARALLELING SYSTEM FOR ALTERNATING CURRENT GENERATORS

Robert Keller, Ennetbaden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint stock Company of Switzerland

Application October 29, 1929, Serial No. 403,173, and in Germany November 9, 1928

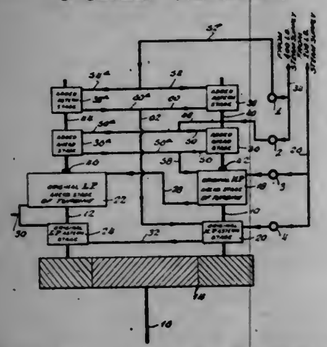
3 Claims. (Cl. 171—115)



3. In a system for synchronizing two alternating current circuits, a motor controlling condi-

tions of frequency in one of said circuits, a synchroscope having a stator connected with one of said circuits and a rotor connected with the other of said circuits for rotation in one and another direction as determined by the frequency condition of the said other of said circuits with relation to the frequency condition of the said one of said circuits for causing forward and reverse movements of said motor in dependence upon the direction of movement of said rotor, and means controlled by said rotor operable to cause the rate of movement of said motor to vary in dependence upon the extent of movement of said rotor.

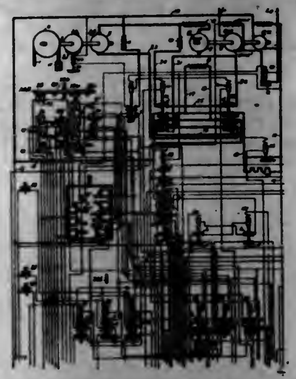
1,921,678
METHOD OF INCREASING POWER OF TURBINE PLANTS
George E. Kershaw, East Orange, N. J., assignor to The Superheater Company, New York, N. Y.
Application January 22, 1930. Serial No. 422,587
3 Claims. (Cl. 60—70)



1. A cross compound turbine installation comprising a high pressure forward stage, an intermediate pressure forward stage, a high pressure reverse stage and an intermediate pressure reverse stage all driving on one shaft, a high pressure forward stage, a high pressure reverse stage, a low pressure forward stage and a low pressure reverse stage driving on a second shaft, means for supplying steam to said high pressure forward stages during periods of forward running, means for transferring steam which has been used in said high pressure forward stages to said intermediate forward stage, means for transferring steam which has been used in said intermediate forward stage to said low pressure forward stage, means for supplying steam to said high pressure astern stages during periods of reverse running, means for transferring steam which has been used in said high pressure astern stages to said intermediate astern stage and means for transferring steam which has been used in said intermediate astern stage to said low pressure astern stage.

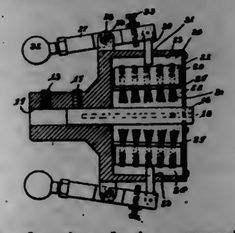
1,921,679
ELEVATOR CONTROL SYSTEM
Luther J. Kinnard, Pasadena, Calif., assignor to Westinghouse Electric Elevator Company, a Corporation of Illinois
Application January 11, 1930, Serial No. 420,131
Renewed December 21, 1932
15 Claims. (Cl. 187—29)

1. In a control system for a pair of elevator cars operable past a plurality of floors, up-direction and down-direction floor relays for each floor for each car, for moving that car to, and stopping it at, a floor, up-direction and down-direction corridor relays associated with each floor for energizing said floor relays, passenger-operated means disposed at each floor for registering calls to energize said corridor relays, and means re-



sponsive to the relative position of the cars for permitting the energization of the floor relays of one car for only one direction when one of the floor relays of the other car is energized for the other direction.

1,921,680
BOTTLE CLEANING DEVICE
Joseph A. Kopnicky, Stratford, Conn.
Application April 9, 1932. Serial No. 604,177
4 Claims. (Cl. 15—179)

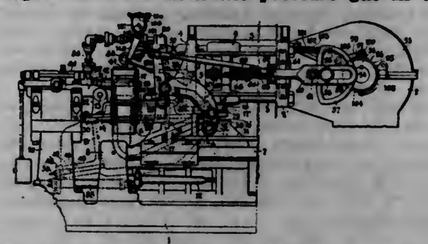


2. A bottle cleaning device comprising a head adapted for attachment to a rotatable shaft and including a hollow cylindrical portion open at one end, elongated pockets formed on said hollow cylindrical portion and having stop flanges inclined outwardly in the direction of said open end, a removable brush block mounted in each of said pockets and adapted to be supported at an incline against said stop flanges, a series of movable brush holders mounted in each block, and means for independently pressing the individual brush holders inward for engagement with a bottle, when positioned between the brush blocks.

1,921,681
DIE-CASTING METHOD
Torbjorn C. Kersmo, Madison, Wis., assignor to Madison-Kipp Corporation, Madison, Wis., a Corporation of Wisconsin
Application June 29, 1931. Serial No. 547,737
6 Claims. (Cl. 22—209)

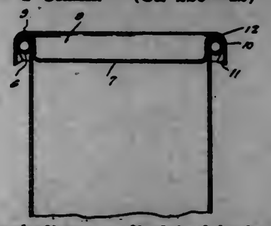
5. The method of die casting which comprises providing a quantity of molten metal in a container; conducting a pressure gas to said container to force molten metal therefrom into a die connected to the container; and supplying to the pressure gas a measured quantity of a substance

adapted to react with the pressure gas in the



presence of heat to form a gas inert toward the metal being cast.

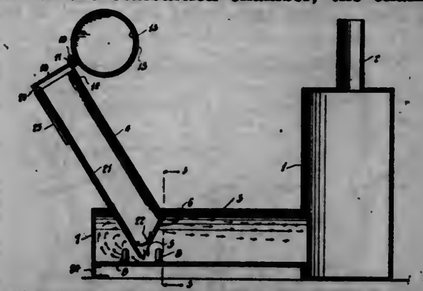
1,921,682
CAN
John P. Lecher, Baltimore, Md.
Application August 15, 1931. Serial No. 557,358
1 Claim. (Cl. 220—42)



A can including a cylindrical body having an upper outwardly rolled edge forming a hollow bead, a top including a body having an upwardly disposed cylindrical wall contacting the upper portion of the internal wall of the can and extending below the bottom plane of the bead, said cylindrical wall of the top merging into an outwardly curved portion passing over the top portion of the bead and a depending annular skirt connected with the outer edge of the curved portion and depending below the bead with an intermediate portion of the skirt contacting the outer part of the bead, and said lower part of the skirt depressed inwardly to provide corrugations, said corrugations passing through the lower edge of the skirt and having their upper portions engaging under a part of the bead and biting into said bead and a gasket resting on the top portion of the bead and under the curved portion of the top, the lower part of the skirt and the corrugations therein being spaced from the external wall of the can.

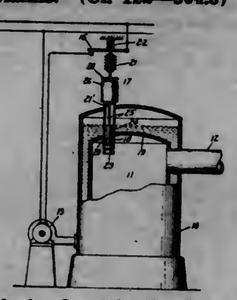
1,921,683
TANK HEATER
Julius H. Luedke, Hartley, Iowa
Application February 14, 1931. Serial No. 515,839
2 Claims. (Cl. 126—360)

1. A tank heater comprising a body provided with a stack, a substantially horizontal vaporizing and combustion chamber opening at its forward end into said body and having its rear end closed, a downwardly and forwardly inclined fuel and air delivery tube of smaller cross section than the cross section of the combustion chamber, said tube extending at its lower end into the combustion chamber and having the lower extremity of its lower wall spaced from the bottom of the chamber and delivering fuel on to said bottom forward of the rear closed end of the chamber, the lower edge of the tube extending downward and rearward, a baffle extending across the upper portion of the lower end of the tube and directing the air discharged from the lower end of the tube downwardly and slightly rearwardly toward the bottom of the combustion chamber, the chamber



having two upwardly projecting ribs on its bottom between which the extremity of the lower end of the tube discharges, the ribs extending above the lower extremity of the lowest portion of the tube.

1,921,684
LOW WATER DETECTOR FOR BOILERS
Walter O. Lum, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application July 1, 1931. Serial No. 548,205
9 Claims. (Cl. 122—504.3)

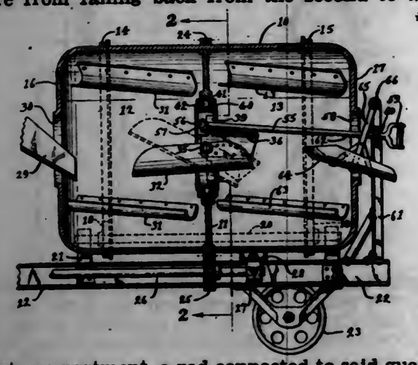


1. A safety device for detecting low water conditions in a boiler having a water well in said boiler extending through the upper wall of said boiler into the combustion space and in which the water level follows the level within said boiler until the water falls below a predetermined level, the level of the water in said well thereafter falling more rapidly than the level in said boiler, means containing a thermal responsive fluid located in spaced relation with the walls of said well to be responsive to the rapid increase in temperature thereof when the water well boils dry, a tube connected with said means and extending out of the top of the well through an exterior wall of the boiler and sealed therein, and automatic safety means connected with said tube to be operated by said thermal responsive fluid.

1,921,685
CONCRETE MIXER
Frederick E. Mascetti and Americus D. Bruno, Torrington, Conn.
Application May 18, 1932. Serial No. 612,019
4 Claims. (Cl. 83—73)

1. In a concrete mixer, a rotary hollow drum having inlet and outlet openings, a partition integral with said drum and having an opening therein, said partition dividing said drum into two compartments, means in said compartments for agitating the concrete mixture, a transfer

chute pivotally supported by said partition and extending through said opening, a guard member attached to said chute to prevent said mixture from falling back from the second to the



first compartment, a rod connected to said guard member for tilting said chute into operating position, and means for locking said rod in any adjusted position.

1,921,686

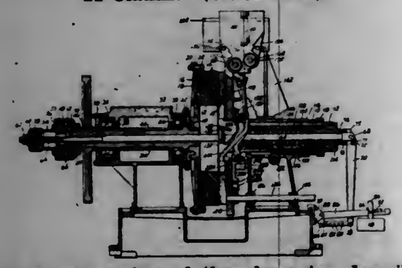
BALL GRINDING MACHINE

George F. Matteson, Rockyhill, Conn.

Application December 18, 1930, Serial No. 503,241

Renewed June 21, 1933

11 Claims. (Cl. 51—130)



11. In apparatus of the character described, ball guides, a hopper, a feed wheel having undulating flanges for propelling balls from the hopper to the guides, and means for agitating the balls to prevent them from jamming together; substantially as described.

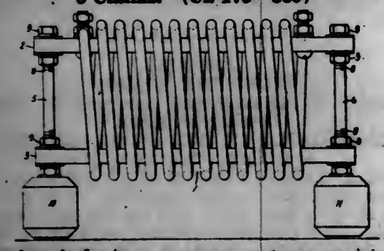
1,921,687

INDUCTOR

Alexander S. MacGregor, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York

Application March 29, 1933. Serial No. 663,870

5 Claims. (Cl. 175—359)



1. An inductor arrangement comprising a heavy bare conductor wound helically, a pair of flat rectangular insulating bars having notches for spacing the convolutions of said conductor, said bars being arranged within said helical conductor with their flat surfaces parallel, said inductor having its extremities fastened to said bars, a member arranged at each extremity of said bars for supporting said bars in spaced relation to each other and in contact with said helical conductor, and adjustable means arranged on said supporting members for adjusting the distance between said bars whereby tension may be applied to the convolutions of said inductor.

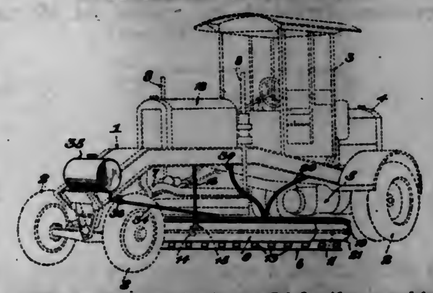
1,921,688

ATTACHMENT FOR ROAD TREATING MACHINES

Daniel Webster McLaughlin, Des Moines, Iowa

Application April 15, 1932. Serial No. 605,487

14 Claims. (Cl. 94—44)



1. In a road surfacing vehicle the combination with a scraper blade of a mixing and treating chamber positioned directly in front of the blade, said chambers substantially enclosing material gathered by the blade, and said blade forming the rear wall of said chamber.

1,921,689

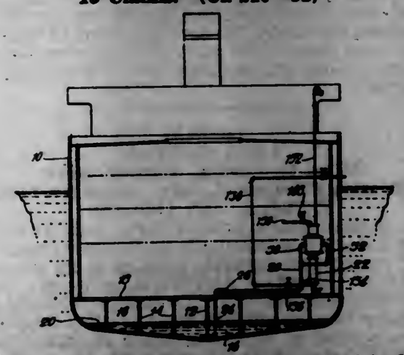
METHOD AND APPARATUS FOR SEPARATING LIQUIDS

Bengt E. Meurk, Upper Montclair, N. J.

Application November 14, 1929

Serial No. 407,247

15 Claims. (Cl. 210—51)



1. A device of the character described including a shell-like structure having a plurality of baffles therein for effecting a multi-stage separation of liquids of varying degrees of specific gravity and a heating element effective to induce a thermo-siphon circulation throughout the entire apparatus, thus effecting the separation in a multiplicity of the separate stages, said heating element extending upwardly from the lowermost portion of said shell-like structure and having a part which is below the lower edges of a plurality of said baffles.

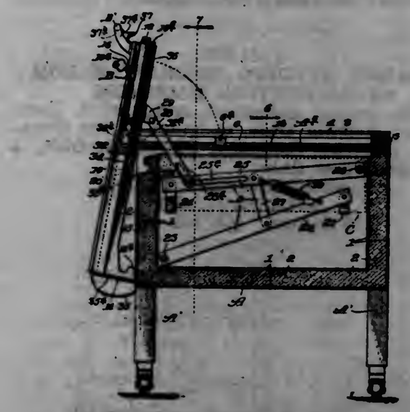
1,921,690

CABINET-SAFE

William C. Miller, Canton, Ohio, assignor to Diebold Safe & Lock Company, Canton, Ohio, a Corporation of Ohio

Application January 28, 1933. Serial No. 654,025

21 Claims. (Cl. 45—2)



14. A structure of the character set forth comprising a cabinet-body; a slidable closure forming a top for said body; pivot-members at the rear end of said body and co-acting pivot members at the lateral edges of an intermediate portion of said closure; a handle connected with the front end portion of said closure; a vertically movable tray within said cabinet-body; and tray-actuating mechanism connected with and actuated by said closure.

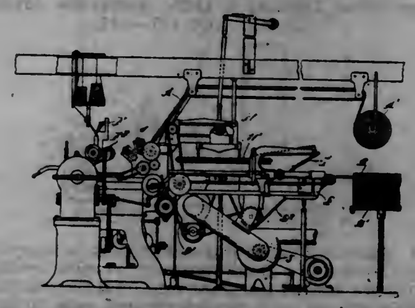
1,921,691

CUSHION AND ITS MANUFACTURE

Allister S. Mitchell, Detroit, Mich., assignor to National Automotive Fibres, Inc., Detroit, Mich., a Corporation of Delaware

Application June 6, 1932. Serial No. 615,652

12 Claims. (Cl. 112—262)



1. A method of manufacturing cushions simulating pleated, stuffed cushions, which comprises forming in a cover-fabric and a pad-strip which comprises unwoven resilient sheet padding material nested seam-ridges, and sewing said nested seam-ridges together.

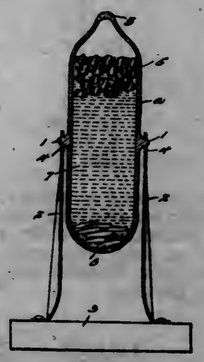
1,921,692

DEVICE FOR ILLUSTRATING PREPARATION OF COAL

Hopkin Morgan, Scranton, Pa., assignor to Penn Anthracite Mining Company, Scranton, Pa., a Corporation of Pennsylvania

Application October 26, 1931. Serial No. 571,266

2 Claims. (Cl. 35—16)



1. A device for illustrating the gravitational separation of natural impurities from coal, comprising a closed transparent container, particles of coal, particles of rock, and a dense liquid in said container, the density of the liquid being such that the coal floats and the rock sinks therein.

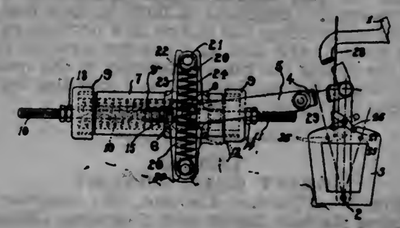
1,921,693

CONTROL OF ACCELERATION AND BRAKING OF VEHICLES DRIVEN BY INTERNAL COMBUSTION ENGINES

Arthur Charles Edward Neville, Isfield, England

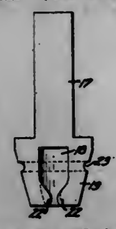
Application January 6, 1932, Serial No. 585,135, and in Great Britain January 6, 1931

4 Claims. (Cl. 192—1)



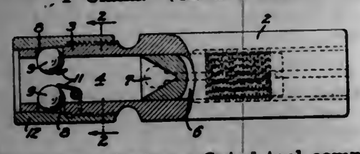
1. A combined brake and accelerator control for motor road vehicles comprising a pair of slidable members formed with abutments at ends separated from but opposed to each other, a pressure applying member being guided between said pair of abutments and adapted to be selectively engaged with the abutments for moving one away from the other, one of the slidable members carrying an abutment being connected to an accelerator and the other being connected to brake operating means, spring loaded toggle links to which the said pressure applying member is connected, said links being adapted to pass through a dead centre position constituting a neutral position when moving from one abutment to the other, supplementary spring means being provided adapted to urge the pressure applying member with a predominance of pressure against the abutment appropriate to the brakes.

1,921,694
CHUCK
Ernest A. Normand, San Francisco, Calif., assignor to Emile H. Normand, San Francisco, Calif.
Application May 10, 1932. Serial No. 610,478
1 Claim. (Cl. 279—93)



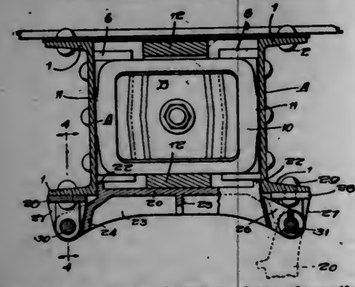
A chuck for gripping a fluted tool comprising a recessed holder for receiving the tool and having portions projecting into the recess for engaging flutes in said tool, said holder being split longitudinally thereof and through the flute engaging portions.

1,921,695
CHUCK
Ernest A. Normand, San Francisco, Calif., assignor to Emile H. Normand, San Francisco, Calif.
Application May 31, 1932. Serial No. 614,486
1 Claim. (Cl. 279—75)



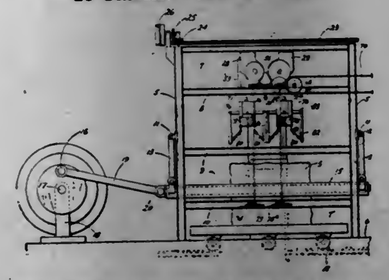
A chuck for gripping a fluted tool comprising a recessed holder for receiving the tool and having an aperture opening into the recess, a ball seated in the aperture and projecting into the recess for engaging a flute in said tool, a spring mounted on the holder in a position to lie in a flute of the tool and bearing against said ball for urging the same outwardly of the recess, and means for moving the ball into the recess against the action of said spring.

1,921,696
DRAFT GEAR SUPPORT
Arthur F. O'Connor, Chicago, Ill., assignor to Union Railway Equipment Company, Chicago, Ill., a Corporation of South Dakota
Application April 17, 1930. Serial No. 444,904
2 Claims. (Cl. 213—61)



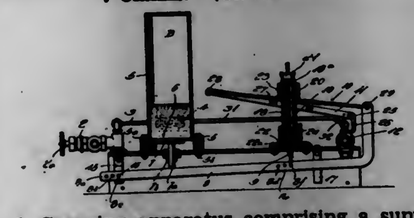
1. In a structure of the class described, the combination of draft gear sills separated to provide a space therebetween for draft gear mechanism, said space being open and unrestricted at its bottom for the insertion and removal of the draft gear mechanism, brackets secured to the lower portion of said sills extending downwardly beyond the width of said space, a supporting plate for the draft gear mechanism extending across said space from one sill to the other between said sills to space said sills apart and having shoulders engaging the opposed faces of said sills, said plate having downward extensions at its ends positioned in alignment with the brackets, and removable pivot pins extending through said aligned extensions and brackets.

1,921,697
ABRASIVE FEEDING MECHANISM FOR STONE CUTTING MACHINES
Mack H. Owens, Lakewood, and Earl A. Burr, Shaker Heights, Ohio, assignors to the Cleveland Quarries Company, Cleveland, Ohio, a Corporation of Ohio
Application November 27, 1931
Serial No. 577,502
16 Claims. (Cl. 125—12)



1. Mechanism for feeding abrasive material to stone cutting saws comprising a main feed hopper, a plurality of feed wheels in said hopper, means for conducting material from said hopper to the saws, and one or more auxiliary feed devices adjustable and co-operatively mounted with respect to said main feed hopper for selectively delivering material to said conducting means.

1,921,698
SPRAYING APPARATUS
Albert O. Price, Dover, Ohio, assignor of one-fifth to Otto L. Buzard, Uhrichsville, Ohio
Application January 6, 1931. Serial No. 507,018
7 Claims. (Cl. 137—145)



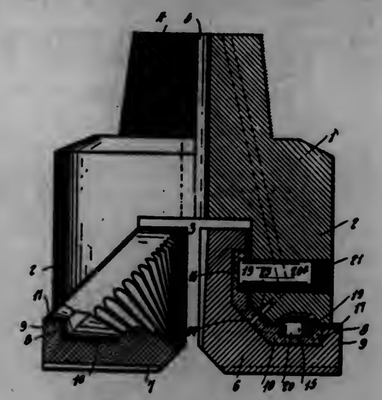
1. Spraying apparatus comprising a supporting structure, a fluid reservoir carried by said structure, means for admitting fluid from a fluid supply source at a predetermined rate to said fluid reservoir, a sprayer valve connected with said reservoir, a pair of pivotally mounted levers, spring means interconnecting the ends of said levers, an actuator extending between one of said levers and said sprayer valve and means contacting with the other of said levers and controlled by the pressure within said reservoir for effecting a shifting movement of said levers under conditions of change of pressure in said reservoir for effecting movement of said valve actuator and maintaining said sprayer valve in open position so long as the pressure in said reservoir substantially exceeds the effect of said spring means.

1,921,699
PREPARING OPEN AND CLOSED HOLLOW BODIES BY CENTRIFUGAL CASTING
Willibald Raym, Deuz, Karl Mertens, Klafeld, and Albert Sülser, Geisweid, Germany, assignors to Hundt & Weber Gesellschaft mit beschrankter Haftung, Geisweid, Germany, a Corporation
Application January 5, 1931, Serial No. 506,766, and in Germany August 1, 1929
2 Claims. (Cl. 22—65)



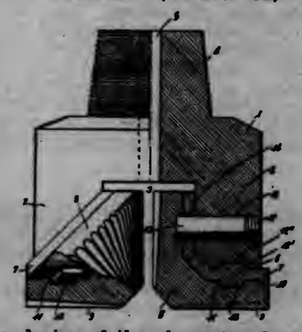
1. In a centrifugal casting apparatus in combination, a rotatable mould open at one end, means for mounting a core carrying plate on the open end of said mould, said plate having a large central opening and a plurality of smaller openings therein, means projecting from the cores for mounting the latter on said plate, said cores adapted to form a plurality of cavities in said casting.

1,921,700
BIT
Earl A. Reed, Wichita, Kans.
Application May 26, 1927. Serial No. 194,315
15 Claims. (Cl. 255—71)



1. In a drill of the character described, the combination with a bit head, of a roller cutter of frusto-conical formation and having a substantially frusto-conical interior, and having an integral interior flange near its base projecting toward its axis, a sectional removable frusto-conical bushing entering said frusto-conical interior of the cutter under its flange, and means for detachably mounting said bushing nonrotatably and its roller cutter rotatably to the bit head.

1,921,701
DRILL CUTTER
Earl A. Reed, Tulsa, Okla.
Application August 15, 1928. Serial No. 299,855
11 Claims. (Cl. 255—71)



1. In a device of the character described, the combination with a drill head having a substantially frusto-conical cutter supporting spindle, of a bearing member having substantially frusto-conical external and internal bearing surfaces, the latter surface being adapted to engage the frusto conical surface of said spindle, a roller cutter having an internal frusto-conical surface adapted for engagement with the external surface of said bearing member and means carried by said bearing member and engaging said spindle and cutter, said means serving to lock said bearing and spindle against relative rotation while permitting relative rotation of said bearing and cutter and means carried by said spindle and engaging said cutter and bearing and serving in conjunction with the aforesaid means to lock said cutter, bearing and spindle in assembled relation.

1,921,702
BIT
Earl A. Reed, Garber, Okla.
Application September 28, 1931
Serial No. 565,595
9 Claims. (Cl. 255—71)



1. The combination with a roller boring drill head, of a duct adapted to permit passage of lubricant downwardly from a lubricant container to be connected adjacent the top of said drill head to an annular groove in a lateral bore through a spindle of said drill head, a cutter assembly locking plug disposed within

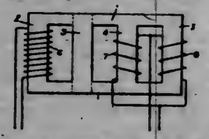
said bore, inlet ducts for passage of lubricant diametrically through said locking plug and registering with said annular groove, an outlet duct for passage of lubricant extending centrally from the inner end of said locking plug to and intersecting said diametrical ducts therein, a duct for the passage of lubricant through a bushing registering with the outlet of said outlet duct, and a second lubricant course comprising registering ducts leading from said annular groove in said lateral bore to the interior of a frusto-conical roller cutter adjacent its truncated apex through said spindle and bushing.

1,921,703

VARIABLE REACTANCE DEVICE

August Schmidt, Jr., Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York

Application November 13, 1931
Serial No. 574,843
6 Claims. (Cl. 171—242)



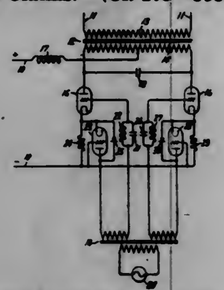
1. A variable reactance device having interlinked magnetic circuits for direct and alternating current windings respectively, and means operative in accordance with the energization of said direct current winding for substantially preventing direct current flux from circulating in the common portion of said magnetic circuits up to a predetermined energization of said direct current winding and thereafter permitting direct current flux to circulate in said common portion of said magnetic circuits.

1,921,704

ELECTRIC VALVE CIRCUITS

August Schmidt, Jr., Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York

Application May 24, 1932. Serial No. 613,324
6 Claims. (Cl. 175—363)



5. In an electric translating circuit, a grid controlled vapor electric valve, a circuit for impressing upon the grid of said valve a control potential having positive and negative values, an auxiliary electric valve included in said grid circuit and conductive only in a direction to impress a negative potential on said grid, means responsive to a flow of current in said vapor electric valve for maintaining said auxiliary valve non-conductive, and a unilaterally conductive device connected in parallel to said auxiliary valve and conductive to impress a positive potential on said grid.

1,921,705

PROCESS FOR THE PRODUCTION OF ALUMINIUM SILICOSULPHIDE

Oskar Schober and August Schmitzpahn, Herrem, near Cologne-on-the-Rhine, Germany, assignors to American Largi Corporation, New York, N. Y., a Corporation of New York

No Drawing. Application June 30, 1932, Serial No. 620,306, and in Germany March 30, 1931
9 Claims. (Cl. 23—134)

1. A process for the production of products consisting essentially of the sulphides of aluminum and silicon which comprises causing metallic aluminium, together with metallic silicon, to react with sulphur at elevated temperature.

9. As an article of commerce, a product consisting essentially of sulphides of aluminum and silicon.

1,921,706

PROCESS FOR THE PRODUCTION OF PURE ARSENIOUS OXIDE FROM ARSENICAL PRODUCTS

Walter Schopper, Hamburg, Germany

Application November 12, 1930, Serial No. 495,266, and in Germany November 26, 1929
10 Claims. (Cl. 23—144)

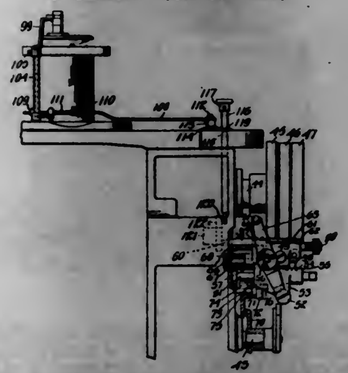
1. Process for the recovery of arsenious oxide from substances containing the same, comprising extracting the arsenious oxide from the originating material by treating the latter with an aqueous liquid containing no more alkaline reacting substance than is represented by 2 grams of free alkali hydroxide per liter at a temperature above the normal boiling point of the liquid and at a superatmospheric pressure corresponding to said temperature, and depositing the arsenious oxide from the resulting solution by crystallization.

1,921,707

STOP MOTION FOR KNITTING MACHINES

William L. Smith, Jr., and Robert H. Lawson, Pawtucket, R. I.; said Smith assignor to May Hosiery Mills, Nashville, Tenn., a Corporation of Tennessee

Original application February 21, 1930, Serial No. 430,436. Divided and this application March 11, 1931. Serial No. 521,840
3 Claims. (Cl. 66—165)



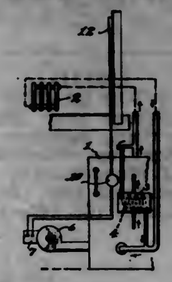
3. In a knitting machine the combination with a detector, of a belt shifter for moving the driving belt from a fast to a loose or to a slow pulley, said belt shifter comprising a bracket having a belt-shifter mounted thereon, resilient means for moving the bracket to move the belt to a loose pulley, a second bracket, a latch pivotally mounted on the first bracket and engageable with the second bracket to hold the belt on the fast pulley, a lever pivotally attached to said second bracket and having a socket engageable by a pin mounted in said latch, said socket having cam surfaces for operating the latch to release it when the lever is moved, movement of the lever serving to cam the locking means to unlocking position, and means operated automatically by mechanism on the knitting machine for moving the second bracket, said second bracket serving to move the first bracket to shift the belt from the fast to the slow speed pulley, substantially as set forth.

1,921,708

COMBINED HOUSE HEATING AND DOMESTIC WATER HEATING SYSTEM

Earl R. Snavely, Union, N. J., assignor to Evelyn L. Snavely, Newark, N. J.

Application January 14, 1933. Serial No. 651,779
6 Claims. (Cl. 236—9)



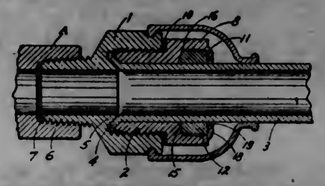
1. In an automatic control system for heaters, a heating boiler, a burner for supplying heat thereto, a house heating system connected to said boiler, a single unitary thermostatic boiler control instrument automatically movable to different positions in response to boiler temperatures and operative in one position to maintain the boiler at a temperature to supply heat to the house heating system and operative upon further movement in the same direction to another position to maintain the boiler at a temperature below that required for the house heating system.

1,921,709

PIPE COUPLING

Henry D. Stecher, Cleveland, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a Corporation of Ohio

Application February 5, 1932. Serial No. 591,100
8 Claims. (Cl. 285—86)



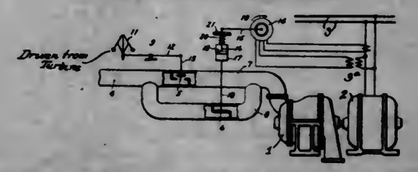
1. A coupling device comprising a female member and a male member adapted to be screwed together, said members having cooperating conical seats adapted to clamp and seal a flared end of a pipe therebetween, one of said members having a ring of resilient sealing material disposed adjacent one end thereof and spaced apart from said conical seats, said resilient ring being adapted to engage said pipe and to prevent the entrance of moisture between said pipe and said member.

1,921,710

REGULATING SYSTEM

Max Stöhr, Berlin-Spandau, Germany, assignor to General Electric Company, a Corporation of New York

Application May 2, 1931, Serial No. 534,680, and in Germany May 17, 1930
2 Claims. (Cl. 264—11)



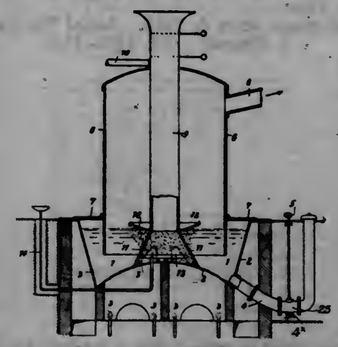
1. In combination with a power engine, a conduit for supplying actuating fluid to the engine, a valve in the conduit, a motor for controlling the valve, two pilot valves for the motor, a load output responsive means controlling one of the pilot valves, a speed responsive means controlling the other pilot valve, means biasing the first named pilot valve to its central position, means for preventing the first pilot valve from uncovering its port at slow movements of the load output responsive means, a dashpot connected to the valve including a piston and biasing means for normally maintaining the piston in a central position, another pilot valve connected to the load output responsive means and the first named pilot valve and having ports connected to the upper and lower part respectively of the dashpot for causing displacement of fluid in the dashpot in response to movement of the load responsive device.

1,921,711

PROCESS OF PRODUCING WATER GAS

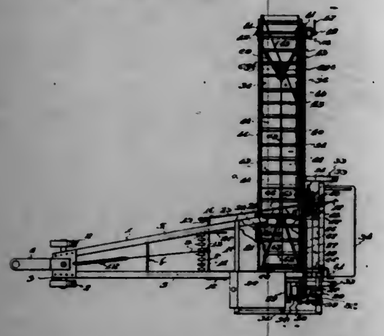
Paul Wangemann, Berlin, Germany

Application March 29, 1929, Serial No. 351,074, and in Germany March 14, 1929
3 Claims. (Cl. 48—206)



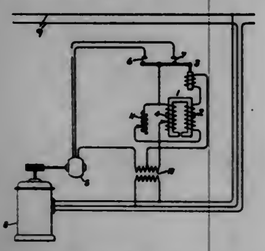
3. A process for producing combustible gas consisting in preheating and distilling carbonizable fuel in an externally heated retort, introducing the solid residue into a bath of molten sodium chloride having a temperature between 900° and 1000° C., passing superheated steam through said residue thereby forming water-gas, the ash separating and sinking to the bottom of said bath.

1,921,712
ROAD MAINTENANCE MACHINE
Rufus L. Ward, Irving, Tex.
Application January 30, 1931. Serial No. 512,395
3 Claims. (Cl. 37—108)



1. In a road making and maintenance machine the combination including a main frame and a subframe, a motor carried by said subframe, a series of earth cutting elements suspended by said main frame and capable of adjustment relative to the earth, an endless conveyor receiving material dislodged by said earth cutting elements, a second endless conveyor operating at right angles to said first conveyor and whose lower lead is arranged to receive material conveyed by said first conveyor, an inclined trough pivotally secured to said main frame and extending outwardly and upwardly therefrom, means for adjusting the angularity of said trough and arranged to sustain material moved by said second conveyor whereby the same may be deposited at a point removed from said machine, and means for driving said conveyor from said motor.

1,921,713
ELECTRICAL COMPENSATING ARRANGEMENT
Harry R. West, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York
Application June 8, 1931. Serial No. 542,866
3 Claims. (Cl. 171—119)



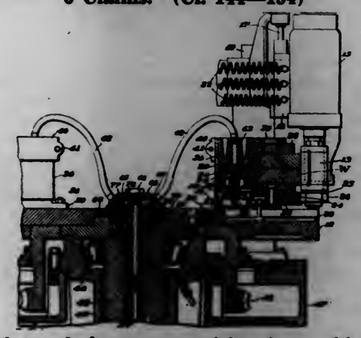
1. The combination with a supply transformer, of a power circuit, and a control circuit energized therefrom, a voltage stabilizing transformer having its primary winding connected in said power circuit and its secondary winding connected in said control circuit, said stabilizing transformer having an abnormally high exciting current and an impedance connected in parallel with the primary winding of said stabilizing transformer.

1,921,714
GRINDING MACHINE
Edward J. Whalen, Pittsburgh, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania
Application December 9, 1929. Serial No. 412,653
4 Claims. (Cl. 51—94)



1. A device for use in grinding circular bodies to curved contours, comprising a base adapted to reciprocate in association with a grinding wheel, a work support pivotally connected with said base, a stationary guide member of a length not less than that of the body to be ground, said member being inclined with respect to the line of movement of said base, and an actuating lever pivotally connected with said base and having one arm operatively associated with said support and the other arm slidingly connected with said guide member.

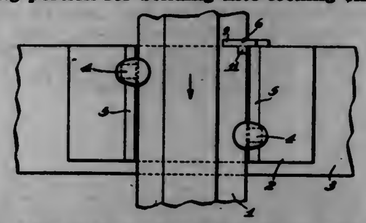
1,921,715
WOOD SHAPER
William M. Whitney and Alphonzo White, Winchendon, Mass., assignors to Baxter D. Whitney & Son, Inc., Winchendon, Mass., a Corporation of Massachusetts
Application December 5, 1931. Serial No. 579,206
6 Claims. (Cl. 144—154)



1. A wood shaper comprising in combination, a revolving work support, a cutter, a hydraulic work clamp upon the work support, a tank for the clamp operating liquid, means for supplying the liquid to the clamp under pressure and for returning it to said tank, including a pipe mounted at the axis of the revolving work support to supply liquid to the clamp and arranged to provide a return passage for the liquid surrounding the pipe, and a valve controlled by the rotation of the work support for opening and closing the clamp.

1,921,716
RAIL ANCHOR
Robert T. Woodings, Oakmont, Pa., assignor to Woodings-Verona Tool Works, Verona, Pa., a Corporation of Pennsylvania
Application January 7, 1933. Serial No. 650,627
5 Claims. (Cl. 238—321)

1. A rail anchor comprising a member having a tapered notch therein to form jaws for wedging engagement with the base of a rail seated upon a tie plate, said tie plate having a shoulder extending above the edge of the rail base, and said member having integral therewith a projecting portion for bending into locking engage-

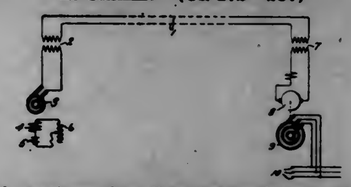


ment with the shoulder of said tie plate for retaining said member in engaging position.

1,921,717
METHOD OF MAKING DICHLOROACETIC ACID
Forest C. Amstutz, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan
No Drawing. Application September 4, 1930
Serial No. 479,787
12 Claims. (Cl. 260—113)

1. In a method of making dichloroacetic acid, the steps which consist in reacting acetic acid with chlorine to form a mixture consisting chiefly of dichloroacetic and trichloroacetic acids, hydrolyzing the latter by heating with water, expelling the products of hydrolysis therefrom, and extracting the dichloroacetic acid from the resultant aqueous solution with a solvent immiscible with water.

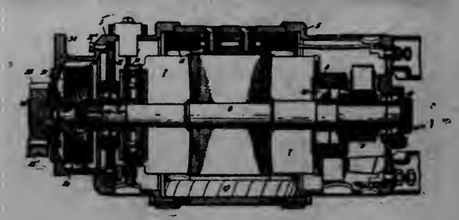
1,921,718
ELECTRICAL TRANSMISSION SYSTEM
Ernst F. W. Alexanderson, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application December 19, 1929. Serial No. 415,307
12 Claims. (Cl. 172—237)



2. A system for the transmission of large blocks of power over long distances comprising an alternating current generator, a transmission line having a charging current of the order of magnitude of the full load current and a receiving circuit, said circuit comprising means for preventing a reversal of power flow therethrough, said circuit having an impedance equal to the surge impedance of the transmission line at at least one predetermined value of its power absorption.

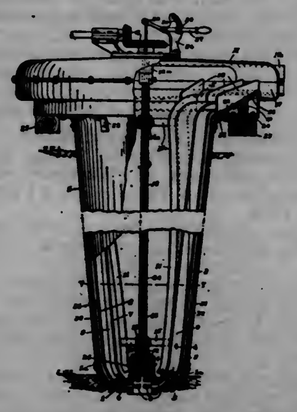
1,921,719
ELECTRICAL APPARATUS
Joseph W. Allen, East Orange, N. J., assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J., a Corporation of New Jersey
Application January 28, 1932. Serial No. 589,516
6 Claims. (Cl. 290—50)

1. In combination with an internal combustion engine, and a member driven thereby, a generator having an armature shaft with a plurality of windings thereon, a battery adapted to energize at least two of said windings, and a one-way driving connection of limited torque transmitting capacity between said engine member and said shaft whereby the generator may be operated from either said battery or said engine.



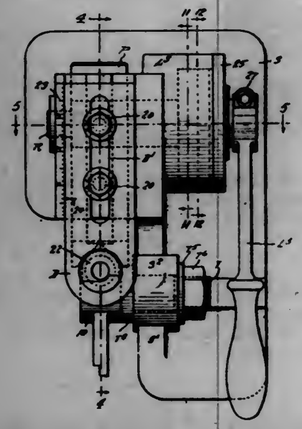
2. In combination with an internal combustion engine, a member driven thereby, a generator having an armature shaft and a plurality of windings thereon, and a battery in circuit therewith, said battery being adapted to energize said windings in parallel to operate the generator as a motor generator when the engine is not in operation, and being adapted to be charged by said windings in series when the engine is in operation.

1,921,720
REVOLVING CYLINDER PUMP
Mabel V. Anderson, Lewiston, Maine, assignor of one-fourth to Annie E. Heath, Crumpsall, England, and one-fourth to Elizabeth G. Canham, Auburn, Maine
Application April 4, 1932. Serial No. 602,941
5 Claims. (Cl. 103—99)



1. A revolving cylinder pump comprising in combination a water-receiving hood having a tangential discharge opening, an inverted frusto-conical shape casing secured at its larger end to the bottom portion of said hood, a ported basin on the bottom end of said casing, a central, axially disposed bore in said basin, a piston in said bore, a tubular, revoluble shaft axially disposed within said casing, the lower end of said shaft being journalled in said basin, a bearing on said hood in which the upper end of said shaft operates, a frusto-conical cylinder secured on said shaft, within and disposed in spaced relation to said casing, a rod operable within said tubular shaft with its lower end fixed in said piston, and means to actuate said rod.

1,921,721
CLAMP
Elmer F. Batterman and Joseph Verderber, Cleveland, Ohio, assignors to The Cleveland Universal Jig Company, Cleveland, Ohio, a Corporation of Ohio
Application February 5, 1931. Serial No. 513,626
9 Claims. (Cl. 77—62)



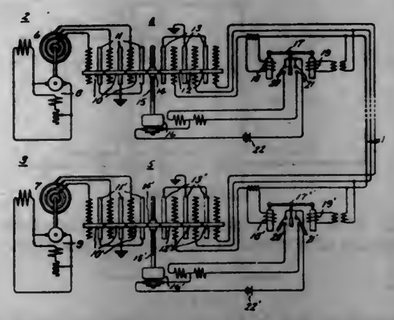
1. A jig for holding split-ring clamps for drilling or reaming the clamping bolt holes including, a support, a stud carried by said support and adapted to receive said split-ring clamp thereon, a holding member adapted to engage said split-ring clamp at both sides of its dividing kerf, and means for urging said holding member into holding engagement with said split-ring clamp and for locking same in such engagement in any position.

1,921,722
SOLVENT FOR REMEDIES
Rudolf Berendes and Walter Kropp, Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York
No Drawing. Application May 17, 1929, Serial No. 363,992, and in Germany August 13, 1928
11 Claims. (Cl. 167—52)

1. As a new composition of matter a homogeneous liquid mixture comprising a barbituric acid hypnotic compound, difficultly soluble in water, a watersoluble monoalkylamide of a lower fatty acid and water, said composition being suitable for injection purposes in medicinal use and being non-toxic even when employing the said monoalkylamide in a high concentration.

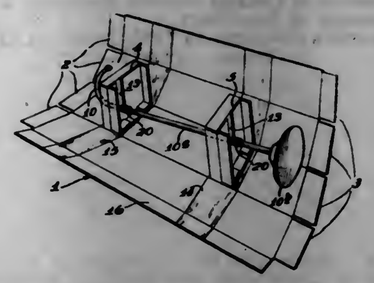
1,921,723
ELECTRICAL TRANSMISSION SYSTEM
Louis F. Blume, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York
Application March 25, 1931. Serial No. 525,222
11 Claims. (Cl. 172—237)

1. The method of operating a synchronous-to-synchronous power transmission system having step up and step down power transformers which comprises varying the ratios of the step up and step down power transformers so as to keep the ratio of line voltage to line current constant at different values of power transfer.



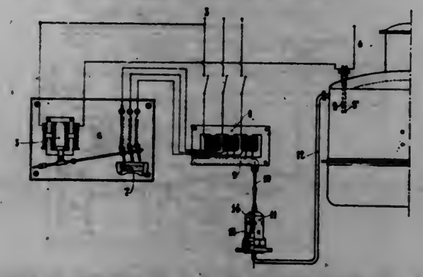
4. In combination, an electrical power transmission line, substantially constant voltage alternating current terminal apparatus connected to each end of said line for producing a flow of power therethrough, means for changing the voltage and current of said line, and means responsive to both voltage and current of said line for causing said voltage and current changing means to maintain a substantially constant ratio between the line voltage and line current over a wide range of power flow through said line.

1,921,724
SHIPPING CARTON
Herman C. Bohnke, Carnegie, Pa., assignor to Superior Paper Products Company, Carnegie, Pa., a Corporation of Delaware
Application June 17, 1932. Serial No. 617,771
1 Claim. (Cl. 206—46)



A shipping package for use in packaging floor lamps, bridge lamps and elongate articles of that character comprising an elongate paper board container equipped at its ends with closing flaps and between its ends with a spacing unit for bracing and holding an article placed in the package against lateral movement and provided at one end with a protecting and anchoring unit which is adapted to encase the base of a lamp, said spacing unit comprising a pair of cooperating oppositely slotted flanged-edged blanks which are arranged in the container in back-to-back relation with their flanged edges attached to the walls of the container and their oppositely disposed slots straddling the article from opposite directions and forming a hole, the edges of which engage the article, said base-protecting unit comprising a foldable housing which fits over the base of a lamp and is fastened to the ends of the container.

1,921,725
FROTH BREAKING
Robert Charles Marie Paul Fernand Boutet, Marseille, France, assignor to Societe Francaise des Glycerines, a Corporation of France
Application May 25, 1931, Serial No. 539,970, and in France April 14, 1931
9 Claims. (Cl. 183—2.6)



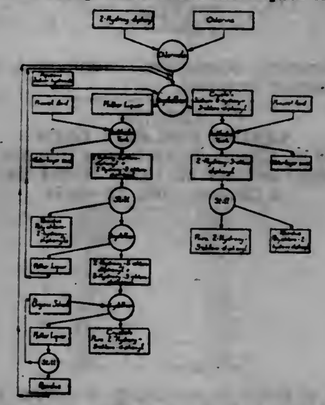
1. In the method of vacuum treating a frothing liquid under sub-atmospheric pressure in a vacuum vessel, the steps of maintaining the liquid under a vacuum, and instantaneously and automatically increasing the pressure on the liquid when the froth of the liquid reaches a predetermined level in the vessel to break the froth.

1,921,726
TREATMENT OF REACTORS
Edgar C. Britton, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan
No Drawing. Application September 17, 1931 Serial No. 563,461
7 Claims. (Cl. 23—1)

1. A method of obtaining the full catalytic effect of the cuprous compounds used as catalysts in reactions for the ammonolysis of halogenated hydrocarbons, which comprises rendering the iron and steel apparatus, employed as a reactor for such ammonolysis reactions, passive, with respect to the usual tendency of iron to displace copper from cuprous compounds, through heating said apparatus with aqueous ammonia, in the absence of a copper compound under superatmospheric pressure and at a temperature between about 200° and about 400° C.

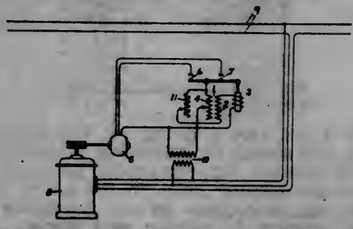
1,921,727
METHOD OF SEPARATING ISOMERIC MONO-CHLORO-ORTHO-HYDROXY-DIPHENYLS
Edgar C. Britton and Fred Bryner, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan
Application December 21, 1931. Serial No. 582,474
14 Claims. (Cl. 260—154)

1. In a method of separating 2-hydroxy-3-chloro-diphenyl and 2-hydroxy-5-chloro-diphenyl from a mixture containing said compounds, the last named isomer being present in amount representing not more than 20 per cent of the total weight of the mono-chloro-2-hydroxy-diphenyls, the steps which consist in converting each of said compounds to a salt of the same with a metal selected from the group consisting of sodium, potassium, and barium, fractionally crystallizing the metal salt of 2-hydroxy-3-chloro-diphenyl from a solution of the above mentioned isomeric salts in a medium selected from the group consisting of water, alcohol, acetone, and mixtures thereof, acidifying the crystalline salt of 2-hydroxy-3-chloro-diphenyl with a mineral acid to liberate purified 2-hydroxy-3-chloro-diphenyl therefrom, acidifying the mother liquor remaining after the above mentioned crystallization to liberate a mixture of the above mentioned isomeric monochloro-ortho-hydroxy-diphenyls as free compounds, separating the mixture of said compounds from the liquor in which



they are formed, fractionally crystallizing a portion of the 2-hydroxy-5-chloro-diphenyl from a solution containing the last mentioned mixture of isomeric compounds, separating all solvent material from the mother liquor remaining after the last mentioned crystallization, and returning the residual mixture of isomeric monochloro-2-hydroxy-diphenyls through the steps therein described.

1,921,728
ELECTRICAL COMPENSATING ARRANGEMENT
Franklin J. Champlin, Dalton, Mass., assignor to General Electric Company, a Corporation of New York
Application June 8, 1931. Serial No. 542,843
8 Claims. (Cl. 171—119)

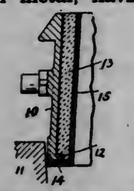


1. The combination with a transformer, of a power circuit and a control circuit energized therefrom, a relatively low reactance voltage stabilizing transformer having its primary winding connected in said power circuit and its secondary winding connected in said control circuit, and an impedance connected in parallel with said primary winding.

1,921,729
HOT TOP
Walter M. Charman, Youngstown, Ohio
Application July 2, 1930. Serial No. 465,389
11 Claims. (Cl. 22—147)

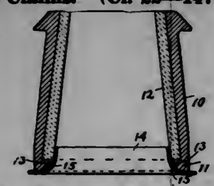
1. In a hot top for ingot molds, an inner lower lining member comprising a shell fitted to the inner walls of the hot top adapted to contact

with the molten metal, having self-sustaining



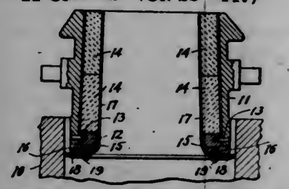
characteristics, comprising compressed, fibrous, heat resisting material.

1,921,730
LINING FOR HOT TOPS
Walter M. Charman, Cleveland Heights, Ohio
Application October 21, 1930. Serial No. 490,224
3 Claims. (Cl. 22—147)



1. In a hot top, a casing, a lining member adapted to be inserted into the casing from one end thereof, and cooperating means upon said casing and lining members comprising a recess in one member and a tongue in the other member, said cooperating means moving resiliently into position to releasably attach said lining member to said casing member when the parts are moved into assembled relation.

1,921,731
HOT TOP
Walter M. Charman, Cleveland Heights, and Harry J. Darlington, Youngstown, Ohio; said Darlington assignor to said Charman
Application January 24, 1931. Serial No. 510,922
11 Claims. (Cl. 22—147)



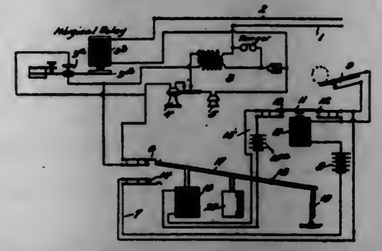
1. In a hot top, a lining for the lower end thereof, and means for releasably attaching said lining to the hot top comprising plugs set into downwardly opening holes in the lower end of the hot top, said plugs having depending projections adapted to support said lining.

1,921,732
HOT TOP
Walter M. Charman, Cleveland Heights, Ohio
Application January 28, 1931. Serial No. 511,732
15 Claims. (Cl. 22—147)



1. A metal casing for a hot top, comprising an internal ledge, and a metal auxiliary ledge member extending around the inner and lower surfaces of said first named ledge.

1,921,733
TIMING DEVICE FOR CONTROLLING TELEPHONE OR OTHER CIRCUITS
Sidney Connell, Washington, D. C., assignor of eighty-two per cent to William H. Grund and Edward H. Spindler, trustees
Application March 21, 1931. Serial No. 524,362
4 Claims. (Cl. 179—6.31)



1. In combination with a telephone circuit, a contact for controlling said circuit, a member arranged to engage said contact and normally hold the same open, a motor magnet for moving said member out of engagement with said contact to permit closing of the same, a circuit for said magnet, means for opening said last mentioned circuit to de-energize said magnet and thereby permit said member to return to normal position in engagement with said contact and a spring for returning said member to normal position.

1,921,734
PORTABLE BOWLING ALLEY
Alfonso H. Dunlap, Chattanooga, Tenn.
Application July 11, 1931. Serial No. 550,207
3 Claims. (Cl. 273—51)

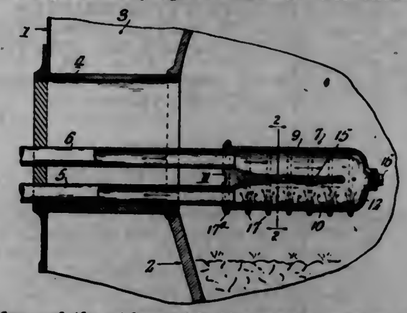


1. A portable bowling alley comprising a sectional supporting frame, each section comprising side bars and angle-iron cross bars, the vertical flanges of the cross bars being cut away where they meet the end bars and the horizontal flanges extending across and beyond the side bars, the extended portions being offset at their ends to form elevated seats, and angle-iron guard rails supported on said seats.

1,921,735
HOT WATER GENERATOR
Frank S. Elrick, Elgin, Ill.
Application November 2, 1931. Serial No. 572,596
2 Claims. (Cl. 122—20)

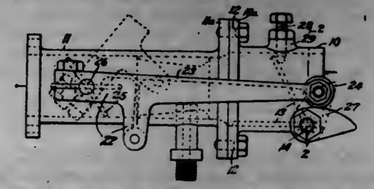
2. A device of the kind described comprising an integral flat hollow member having side walls, top and bottom walls, there being a substantially flat wall at one end of the body and a substantially rounded wall at the other end of the body, vertically spaced tubular bosses on said substantially flat end of the body, a central partition extending from said substantially flat end of the body, longitudinally thereof toward but terminating short of the substantially rounded end of said member to provide a U-shaped channel communicating at its ends with said bosses

and longitudinally spaced ribs on the external



surface of the side and bottom walls only of said member.

1,921,736
CARBURETOR
Charles Julien Erade, Brussels, Belgium
Application December 24, 1931. Serial No. 583,053
5 Claims. (Cl. 261—64)



1. A device for regulating the admission of air to an internal combustion engine carburetor provided with a main duct, a throttle valve in this duct and a throttle lever operatively connected to this throttle valve, comprising a chamber mounted on the inlet end of the air duct and in alignment with this duct, an air intake valve in this chamber opening under the action of difference of pressure acting on its two surfaces, means for braking this displacement of said valve and maintaining the latter in any position of opening, and means for positively returning said valve to its initial closed position by the action of the throttle lever only during the last period of the return stroke of this lever into its position for the slow running of the engine.

1,921,737
UNIVERSAL COUPLING FOR MACHINE ELEMENTS
Pierre Fenaille, Paris, France
Application December 5, 1927, Serial No. 237,952, and in France December 8, 1926
5 Claims. (Cl. 64—102)

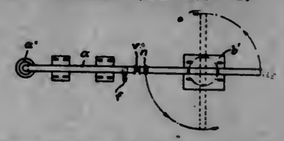


1. A universal joint comprising, in combination: a member comprising a sphere cut away to provide a substantially semispherical portion with a substantially semicircular flange projecting therefrom; a second member comprising a sphere cut away to provide a substantially semispherical portion with arcuate edged flanges projecting therefrom, defining a groove therebetween to receive said first named flange; each of said members having a circumferential groove in a plane perpendicular to the plane of said flanges; and opposed shaft ends each carrying arcuate projections engaging the respective grooves.

1,921,738
FOOD FAT AND OIL COLORING MATERIAL
Adino F. Files, Maumee, Ohio, assignor to The Files Packeting Machine Company, Maumee, Ohio, a Corporation
No Drawing. Application March 17, 1932
Serial No. 599,596
6 Claims. (Cl. 99—13)

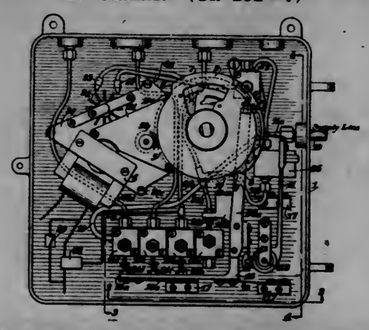
1. A dry coloring material for edible fats and oils consisting of a mixture of a dye and lactose.

1,921,739
APPARATUS FOR EXTINGUISHING BURNING OIL WELLS
Karl Fleischmann, Flensburg-Murwik, Germany, assignor to Firm Aug. Klönne, Dortmund, Germany
Application October 21, 1930, Serial No. 490,296, and in Germany August 15, 1930
1 Claim. (Cl. 169—4)



Means for extinguishing burning oil wells and the like comprising a horizontal pipe of sufficient width to carry all the oil and made in two sections of approximately equal length, a vertically disposed funnel connected with one end of the horizontal pipe and adapted to fit over the burning oil well, trolleys on which the horizontal pipe sections are mounted and wheeled up to the oil well, and an easily releasable connection between the two sections of the horizontal pipe so that the section which is further from the well can be moved away rapidly, thus suddenly interrupting the oil stream.

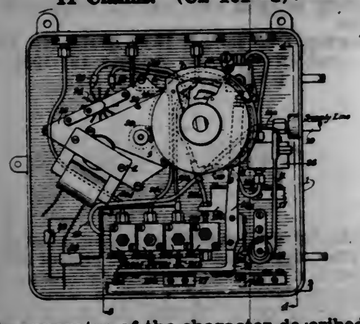
1,921,740
APPARATUS FOR CONTROLLING INDUSTRIAL PROCESSES
Edward B. Foote, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York
Application June 26, 1930. Serial No. 464,099
10 Claims. (Cl. 161—7)



1. In apparatus of the character described, the combination of a plurality of valves including valve stems exposed at the same side, an arm, parallel motion mechanism for supporting the arm at a plurality of spaced points thereon near its ends for motion toward and away from the valve stems, abutments on the arm for contact with the valve stems, means for varying the height of each abutment and means for actuating the arm, comprising a rotary cam having a

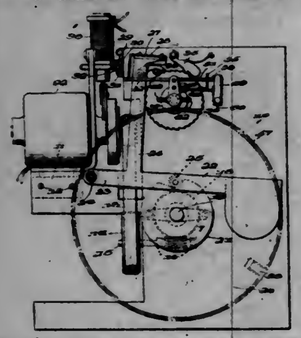
composite surface the component parts of which are different distances from the center of rotation of the arm, a contact finger riding upon the surface of the cam and a single lever for transmitting the motion of the contact finger to the arm.

1,921,741
APPARATUS FOR CONTROLLING INDUSTRIAL PROCESSES
Edward B. Foote and Floyd B. Newell, Rochester, N. Y., assignors to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York
Application June 26, 1930. Serial No. 464,100
11 Claims. (Cl. 161—1)



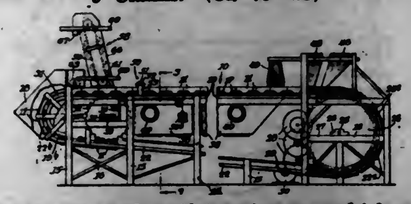
1. In apparatus of the character described, the combination of a cam, a motor for driving the cam, an impulse wheel for driving the cam, means for independently transmitting motion from the said motor and from the wheel to the cam, means operatively connected with the motor for controlling the motor, and means operatively connected with the cam for controlling the wheel.

1,921,742
ANNOUNCING APPARATUS
John L. Franklin, Atlanta, Ga.
Application November 19, 1931
Serial No. 576,192
9 Claims. (Cl. 179—100.4)



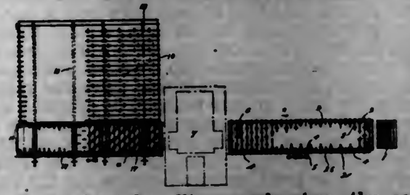
1. An announcing apparatus including a movable sound record, an electromagnetic pick-up having a needle adapted to intermittently engage said sound record, an amplifier operatively connected with the pick-up, an electric motor for moving said record and for controlling the engagement of the pick-up needle with the record, and time controlled electrical means for intermittently energizing the amplifier and motor successively, whereby the amplifier is warmed up before the motor is actuated.

1,921,743
PROCESS FOR PURIFYING ZINC ORE
Oscar Gerlach, Peru, Ill., assignor to Matthiessen & Hegeler Zinc Co., La Salle, Ill., a Corporation of Illinois
Application July 21, 1930. Serial No. 469,545
9 Claims. (Cl. 75—28)



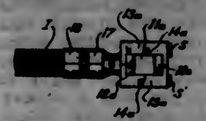
1. A process of purifying zinc ores which consists in separately crushing and wetting a high grade ore and a low grade ore, then superimposing the high grade ore upon the low grade ore in a traveling conveyor, subjecting said ores during their travel to the action of heat applied directly to said high grade ore at a temperature and pressure sufficient to free said high grade ore of lead and cadmium compounds, condensing the vaporized lead and cadmium compounds in said low grade ore, breaking up the upper layer of said ore, and then continuously separating said upper layer of ore from said lower layer during their travel.

1,921,744
SHEET HANDLING MECHANISM
Frank H. Goodell, East Cleveland, and James E. Chinnock, Cleveland, Ohio, assignors to The C. O. Bartlett & Snow Company, Cleveland, Ohio, a Corporation of Ohio
Application October 30, 1930. Serial No. 492,246
17 Claims. (Cl. 51—8)



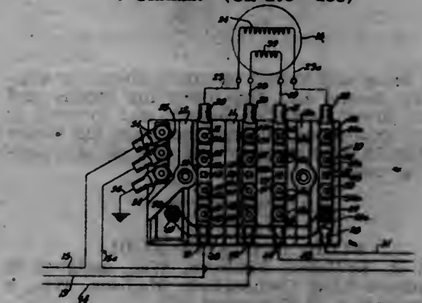
4. In a sheet handling mechanism, the combination with a tiltable table adapted to receive sheets in a tilted position and return the same to a horizontal position, and movable means extending transversely of said table adapted to move such sheets laterally therefrom upon attainment of a horizontal position by such table.

1,921,745
WIRE TERMINAL
Richard W. Grace, Canton, Ohio, assignor to The Superior Switchboard & Devices Company, Canton, Ohio, a Corporation of Ohio
Application May 4, 1931. Serial No. 534,867
2 Claims. (Cl. 173—269)



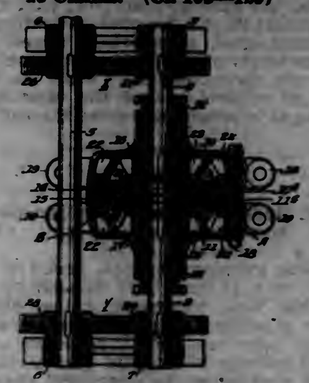
1. A one-piece sheet metal terminal connection for clamping divided strands of a conductor, said terminal connection including a tubular portion formed of reversely bent wings having their free edges in abutment, the wings being provided at their abutting edges with matching notches forming an opening in one side of the tubular portion, and a tongue stamped from the other side of the tubular portion for extending through said opening and clamping over the abutting edges of said wings.

1,921,746
TEST BLOCK
Richard W. Grace, Canton, Ohio, assignor to The Superior Switchboard & Devices Company, Canton, Ohio, a Corporation of Ohio
Application September 21, 1931
Serial No. 564,084
7 Claims. (Cl. 175—183)



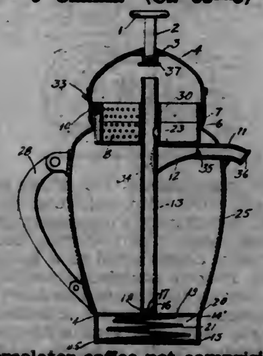
1. A meter test block including an insulation base, a grouped pair of line terminals thereon, a grouped pair of load terminals spaced from the line terminals, meter terminals normally connected to the line and load terminals, a jumper bar below the base leading from one of the load terminals to a point adjacent to one of the line terminals, and means for connecting said jumper bar to the last mentioned terminal.

1,921,747
ROTARY PUMP OR THE LIKE
Edgar E. Greve, Bellevue, Pa., assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of New Jersey
Application February 19, 1929. Serial No. 341,183
15 Claims. (Cl. 103—129)



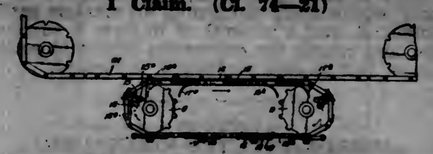
1. In a rotary pump or the like, a casing, a pair of aligned pump shafts operable in the casing, rotors fixed to the respective pump shafts, said rotors having complementary faces thereof in contact and provided with recesses to form a fluid chamber enclosed by said rotors, a piston element mounted on each rotor and operable in the fluid chamber, said casing being formed with suction and discharge passages in communication with said chamber.

1,921,748
PERCOLATOR COFFEEPOT
Israel Gromelstein, Bronx, N. Y.
Application September 17, 1929
Serial No. 393,249
9 Claims. (Cl. 53—3)



1. A percolator coffee pot comprising a receptacle adapted to contain water, a cover for said receptacle, a piston disposed adjacent the bottom of said receptacle, a tubular member forming a piston rod for said piston extending from the latter, a container for coffee grounds mounted within said receptacle and having a central tubular portion receiving said tubular member therethrough, a member slidably mounted on said cover adapted to contact the upper end of said tubular member, a spout extending from said receptacle, said tubular member having an opening normally registering with said tubular portion whereby liquid rising within said tubular member will pass through the upper end thereof into said container, and means for establishing communication between the tubular member and said spout upon actuating said slidable member for moving the tubular member to bring said opening therein below said container.

1,921,749
DRIVING MECHANISM
Eugene H. Haug, Chicago, Ill., assignor of one-third to Hugh E. Young and one-third to Eugene S. Taylor, both of Chicago, Ill.
Application May 23, 1932. Serial No. 613,975
1 Claim. (Cl. 74—21)



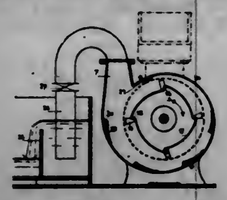
In combination with a flexible driving member passing over a supporting wheel, an automatic gripper, including; a support mounted on the driving member; a pair of jaws pivotally mounted in the support, said jaws being equipped with segments carrying intermeshing gear teeth; and an operating lever attached to one of said jaws, said operating lever carrying a part adapted to engage a stationary cam surface by movement of the carrier to operate the jaws.

1,921,750

CENTRIFUGAL SEPARATOR FOR STRAINING PULPY MATERIAL, SUCH AS WOOD PULP, CELLULOSE, PAPER PULP, AND THE LIKE

Richard Heinrich and Hans Zipprian, Kothen, Germany, assignors to Carl Nebrich, Prague-Smichow, Tzechoslo

Application March 24, 1932, Serial No. 601,022, and in Germany April 1, 1931
9 Claims. (Cl. 92—35)



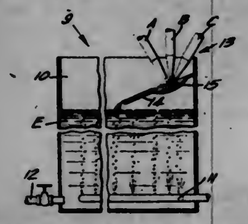
1. A centrifugal separator for sifting pulpy material, such as wood pulp, cellulose, paper pulp and the like, comprising in combination a stationary sorting sieve, a centrifuging body rotatable in said sieve constructed as a hollow cylinder having a broken peripheral surface corresponding in length to that of the sieve the said surface consisting of abruptly shouldered convexly eccentric segments gradually rising sections alternating with suddenly descending sections adapted to alternately slowly compress and suddenly relieve the pulp circulating in said stationary sorting sieve and force the pulp outwardly through said sieve.

1,921,751

METHOD OF TREATING PETROLEUM EMULSIONS

Abraham M. Herbsman, Huntington Park, Calif.

Application June 17, 1931. Serial No. 545,153
11 Claims. (Cl. 196—4)



11. A method for treating petroleum emulsions which consists in directing simultaneously upon a baffle member jets of aqueous solutions of a water soluble fatty compound, an alkaline earth compound, and a mineral oil to form a suspension, and mixing the suspension with said emulsion as fast as said suspension is formed.

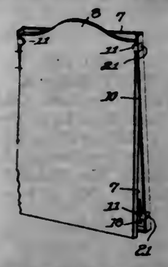
1,921,752

MIRROR-EQUIPPED STRUCTURE

Bryce M. Hess, Chicago, Ill.

Application August 17, 1932. Serial No. 629,211
5 Claims. (Cl. 45—18)

1. A device of the character described comprising a backing member adapted for vertical disposition, mirror-supporting means on the backing member engageable by the lower end of the mirror, means on the backing member and between which the mirror extends, for preventing lateral shifting of the mirror, and lug means adjacent the upper and lower ends of the mirror and overlapping the front of the mirror, the upper lug means being spaced from the backing a greater distance than the thickness of the mirror, the construction thus permitting the mirror while inclined to be inserted beneath the upper lug means



from below and moved upwardly above the supporting means and the lower lug means and thence inwardly at the bottom and lowered to become positioned between the lower lug means and the backing member and seat on said supporting means.

1,921,753

FLUID OPERATED TOOL

John R. Hoffman, Madison, Wis., assignor to Madison-Kipp Corporation, Madison, Wis., a Corporation of Wisconsin

Application April 29, 1931. Serial No. 533,809
3 Claims. (Cl. 121—20)



1. In a fluid-operated tool, the combination of a tool body having a chamber provided with inlet ports; valve means for feeding motive fluid to said inlet ports; means for operating the valve means by the exhaust fluid from said chamber; and a piston in the chamber controlling a pair of different-sized, transversely alined exhaust ports, the larger of which supplies actuating fluid to the valve operating means, while the other directs a jet of fluid against the valve operating means so as to retard movement thereof.

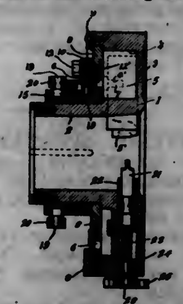
1,921,754

DIE HEAD

Ralph E. Hyde, Cleveland, Ohio, assignor to The Oster Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio

Application February 28, 1931. Serial No. 519,093
4 Claims. (Cl. 10—96)

2. A die head comprising in combination a laterally extending body, an annular cam plate mounted adjacent one end thereof, chasers mounted radially in one end thereof, and cam-and-slot connections between said chasers and said cam plate, said connections comprising a pin seated in one edge of said chaser and a head on said pin projecting from said chaser, said head including enlarged flat bearing surfaces against the inner face of said cam plate and the edge of said chaser opposite thereto, respectively, and a projecting arcuate fin having side cam surfaces



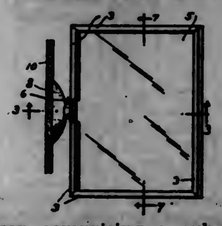
corresponding to the cam surfaces on said cam ring slot.

1,921,755

MIRROR

Frithiof L. Karlson, Liberty, N. Y.

Application July 18, 1932. Serial No. 623,270
3 Claims. (Cl. 45—97)



1. A mirror comprising a substantially rectangular, flat, metallic plate, a reflecting glass mounted on the plate, flanges integral with each of the four marginal flanges of the metallic plate and engaged over the glass for securing said glass in position on the plate, one side of the plate having a pair of spaced flanges thereon, a bendable arm formed integrally with the plate between the spaced flanges, and a suction cup mounted on the free end portion of the bendable arm for engagement with a support.

1,921,756

RESINOUS COMPOSITION

Roy H. Kienle, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York

No Drawing. Application October 26, 1927
Serial No. 228,975
10 Claims. (Cl. 260—3)

1. A resin resulting from the chemical interaction of a polyhydric alcohol, a monohydric alcohol and an organic polybasic acid which resin is heat-convertible to the infusible state.

1,921,757

LAMINATED MOLDED PRODUCT

Roy H. Kienle, Schenectady, and William J. Scheiber, Troy, N. Y., assignors to General Electric Company, a Corporation of New York

Application May 29, 1931. Serial No. 541,052
3 Claims. (Cl. 92—40)

1. The process of producing a relatively thick laminated pulp product which comprises building up and simultaneously interlocking fibers of wet pulp containing a resinous composition on and around the fibers thereof to a thickness such that the final molded product is 50 mils or over, drying the built-up wet mass, and molding under heat and pressure.

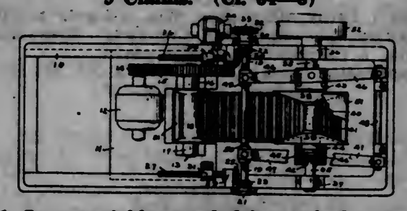


1,921,758

VARIABLE SPEED DRIVE

Louis F. Koss, Jr., Indianapolis, Ind., assignor to Capital Machine Company, Indianapolis, Ind., a Corporation

Application March 21, 1932. Serial No. 600,221
9 Claims. (Cl. 64—8)



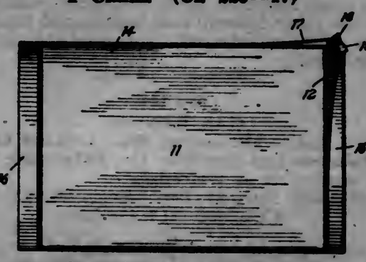
1. In a variable speed drive, a bed, a motor driving unit having a driving spool, a platform shiftable along the bed, a driven shaft, a pair of opposing cones on the driven shaft fixed to revolve therewith but slidable longitudinally therealong, a belt wrapped around said spool and between said cones adapted to be driven by said spool and to turn said driven shaft through said cones, and means for shifting said platform along the bed toward or away from said driven shaft and simultaneously shifting said cones toward or away from each other to maintain a constant belt tension as the line of belt contact around said cones may vary outwardly and inwardly from the driven shaft during said shifting, said means comprising a reversible motor, means for moving the platform by the operation of the motor in corresponding opposite directions and means actuated by the movement of the platform to change the speed and to keep the belt suitably tight.

1,921,759

LOCKED BOX

Robert M. Lackey, Cohoes, N. Y.

Application March 12, 1932. Serial No. 598,373
1 Claim. (Cl. 229—47)

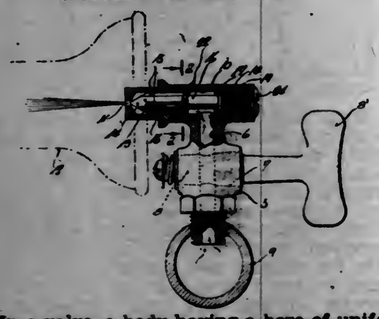


A box as characterized comprising a body portion having outwardly flared sides and a cover therefor having inwardly contracted sides to conform with the sides of said body portion, means for permanently uniting the corners of said body portion and three of the corners of said cover, and means for closing the free edges of the sides of said cover when in service, said means comprising outwardly turned edges and marginal ends on said sides of said cover, and a resilient tube for engaging, between the free sides thereof, said edges.

1,921,760
ALLOY
Robert H. Leach, Fairfield, Conn., assignor to Handy & Harman, New York, N. Y., a Corporation of New York
No Drawing. Application June 23, 1933
Serial No. 677,272
4 Claims. (Cl. 75—1)

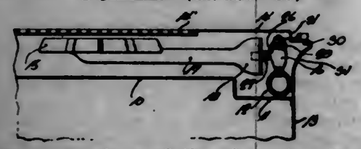
1. A brazing and soldering alloy which consists of silver ranging from about 50% to about 80%, zinc ranging from about 15% to about 35%, and cadmium ranging from about 1% to about 15%.

1,921,761
GAS COCK
Oscar J. Leins, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a Corporation of Wisconsin
Application April 27, 1931. Serial No. 533,197
2 Claims. (Cl. 158—120)



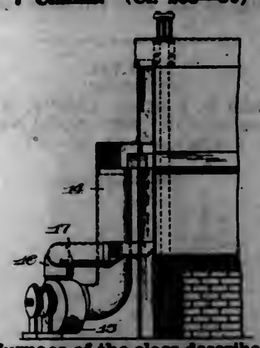
1. In a valve, a body having a bore of uniform diameter with a constriction at one end and its opposite end internally threaded, a valve element in the bore comprising a cylindrical hollow body having a pointed end adapted to cooperate with the constriction at the end of the bore to meter the flow of fluid therethrough, a plurality of longitudinal fins extending radially from the cylindrical body to slidably engage the wall of the bore and positively center the valve element with respect to the bore and its constriction, said longitudinal fins being at least twice as long as the diameter of the bore so as to have a long contact with the wall of the bore, and means to adjust said valve element in the bore comprising a stem having a freely rotatable connection with the valve element and a threaded head engaged with the internally threaded end portion of the bore.

1,921,762
GAS RANGE
Oscar J. Leins, Milwaukee, Wis., assignor to The Milwaukee Gas Specialty Co., Milwaukee, Wis., a Corporation of Wisconsin
Application April 27, 1931. Serial No. 533,199
4 Claims. (Cl. 126—39)



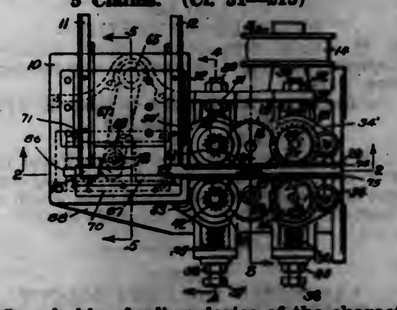
1. In a gas stove of the character described, a top plate for said stove, a face plate on the front of said stove, a step interposed between said top plate and said face plate, said step having an aperture through the vertical leg thereof, a valve mounted within the angle between said top plate and said face plate and adapted to control the flow of gas to a burner, an actuating handle for said valve movable in a horizontal plane projecting through said aperture and onto the horizontal leg of said step.

1,921,763
DRAFT CONTROL APPARATUS FOR FURNACES
Robert MacDougall, Granite City, Ill., assignor to Beemack Furnace Company, Cicero, Ill., a Corporation of Illinois
Original application September 10, 1928, Serial No. 304,945, now Patent No. 1,857,286. Divided and this application May 7, 1932. Serial No. 609,920
7 Claims. (Cl. 262—50)



1. In a furnace of the class described and having a heated passage provided with a constantly open opening, a draft control device at said opening including a pump having an intake connection arranged to draw in heated air adjacent the top of the opening and a discharge connection arranged to discharge such air in a transverse stream upwardly from the bottom of such opening.

1,921,764
FEEDING DEVICE
Theodore G. McGirr, Brooklyn, N. Y.
Application May 24, 1928. Serial No. 280,158
5 Claims. (Cl. 51—215)



1. In a holder feeding device of the character described, the combination with inclined arms upon and down which the holders pass, a guide for receiving each holder in turn from the arms to longitudinally align the same with the machine, a plurality of sets of rollers, arranged in series, friction means for driving the first set, a member adapted to select the lower holder and pass it to the first set of frictionally driven feed rolls, a second set of feed rolls, means for positively driving the second set so that the holders will abut each other as they pass to the machine, and a guide for the holders interposed between the rolls.

1,921,765
ROTARY SNAP SWITCH
George J. Meuer, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware
Application November 10, 1930
Serial No. 494,632
10 Claims. (Cl. 200—65)



10. In combination, a combined stationary contact and terminal member for electric snap switches, said member comprising a flat punched sheet metal plate having an arcuate inner edge with a multiplicity of substantially U-shaped notches formed therein, the walls of certain of said notches being adapted to form contact portions, and an insulating base member to which said contact and terminal member is rigidly secured, said base member having bosses formed integrally therewith and adapted to substantially fill certain of said notches flush with the exposed surface of said contact and terminal member.

1,921,766
ELECTRIC SWITCH
George J. Meuer, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware
Application January 26, 1931. Serial No. 511,359
16 Claims. (Cl. 200—68)

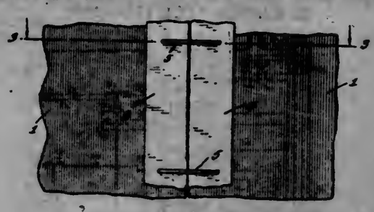


16. In an electric snap switch, in combination, a shallow molded insulating base, punched sheet metal contact and wiring terminal members seated edgewise within correspondingly shaped recesses in said base and having portions thereof extending flush with the upper surface of said base, a flat punched insulating cover plate adapted to retain said contact and terminal members in assembled relation to said base, a pin extending upwardly at right angles to said base, a stamped sheet metal contactor pivotally supported by said pin, said contactor having a plurality of pairs of upwardly converging inclined cam surfaces formed thereon, an actuating element having downwardly converging inclined cam surfaces formed thereon for cooperation with the cam surfaces aforementioned, a hollow shaft telescopically engaging said actuating element and interlocked with the latter against rotation relatively thereto, and means for limiting said actuating element to oscillatory movement within a predetermined range.

1,921,767
METHOD OF MAKING ACID HALIDES
Lindley E. Mills, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan
No Drawing. Application May 20, 1929
Serial No. 364,697
9 Claims. (Cl. 260—123)

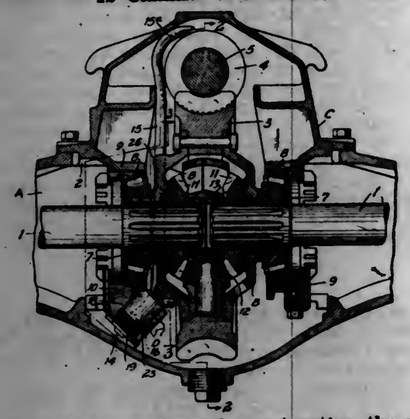
6. The method of making a benzoyl halide and another acyl halide conjointly which comprises reacting a benzo-tri-halide with a monocarboxylic acid of the lower fatty acid series, the two reactants being employed in approximately the ratio of one mole of the former for each equivalent weight of the latter, and said monocarboxylic acid being added gradually to the benzo-tri-halide during the course of the reaction.

1,921,768
JOINT FOR BARRELS AND THE LIKE
David T. Morgan, Elizabeth, N. J., assignor to The Steel-Clad Products Company, Inc., New York, N. Y., a Corporation of New York
Application July 3, 1931. Serial No. 548,574
3 Claims. (Cl. 217—1)



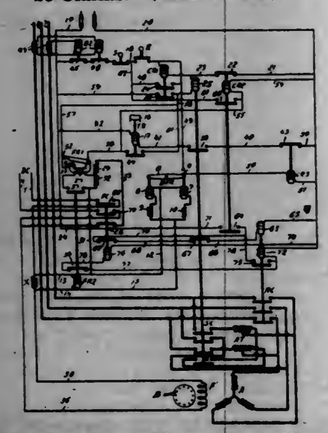
1. A receptacle having a lateral wall provided with a butt joint, an imperforate strip overlapping the material of which the side wall is constructed on opposite sides of the butt joint and having an intermediate portion interposed between the abutting edges of said material, and inextensible fastening means extending across said butt joint and through the imperforate strip on opposite sides of said butt joint, said inextensible fastening means being anchored in the material of said lateral wall on opposite sides of said butt joint for clamping said imperforate strip to the adjoining portions of said lateral wall and for securing the abutting edges of said adjoining portions in positive clamping engagement with the intermediate portion of said imperforate strip.

1,921,769
DRIVING AXLE
Mathew B. Morgan, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a Corporation of Ohio
Application October 9, 1930. Serial No. 487,441
12 Claims. (Cl. 184—6)



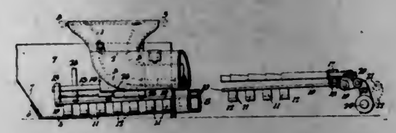
1. In an automotive axle construction, the combination with a gear and an overhung driving member intermeshing therewith, of a lubricant containing casing enclosing said gear, a reciprocating pump located in said casing within the projected periphery of said gear with its inlet port in communication therewith below the level of the lubricant therein, a pipe leading from the discharge port of said pump to said overhung driving member, and cam means fixed to and rotatable with the radial side face of said gear for actuating said pump.

1,921,770
MOTOR STARTING SYSTEM
Carl C. Nelson and Roy A. Crosby, Minneapolis, Minn., assignors to Electric Machinery Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota
Application June 17, 1930. Serial No. 461,680
23 Claims. (Cl. 172—289)



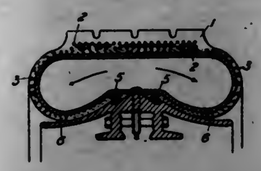
2. In combination with an alternating current motor, starting and running connections for said motor, means for closing the starting connections, means for closing the running connections with the motor stationary if the motor does not start within a predetermined time interval with the starting connections closed and means for preventing such closing of the running connections after said predetermined time interval provided the motor starts within said interval.

1,921,771
CONVEYER DEVICE
Charles G. O'Hara, Norristown, Pa.
Original application June 20, 1932, Serial No. 618,148. Divided and this application February 8, 1933. Serial No. 655,711
6 Claims. (Cl. 193—226)



1. In an automatic stoker, the combination with a grate; of means for progressing material with respect to said grate, including a conduit and a reciprocatory conveyer bar in said conduit; said bar having pendent members at opposite sides thereof, having their lower ends wedge shaped in the direction of the length of said bar; whereby, movement of said bar in one direction wedges said material from the sides toward the center of said conduit, without progressing it longitudinally with respect to said conduit, and movement of said bar in the opposite direction progresses said material in said conduit by the butt ends of said wedges.

1,921,772
PNEUMATIC TIRE
Wallace Henry Paull, Edgbaston, Birmingham, England, assignor to Dunlop Rubber Company Limited, London, England, a British Company
Application August 6, 1931, Serial No. 555,457, and in Great Britain August 21, 1930
5 Claims. (Cl. 152—13)



1. An improved construction of pneumatic tire of the type described which has a radial section initially molded substantially to the cross-section maintained under load and comprises a substantially flat flexible and comparatively inextensible tread formation, relatively thin and continuously curved and flexible side walls which curve first outwards from each side of the tread and then inwards, the inward curves extending across the inner periphery of the tire towards one another in such a manner as to form a concave and flexible rim cushioning portion of substantially the width of said tread portion such that the deformation due to variations in tire load is transferred from the tread and side walls to the flexible cushioning portion in which the rim floats.

1,921,773
PROCESS FOR THE PRODUCTION OF ZINC SULPHATE
Kurt J. Petschow, Passaic, N. J., assignor to Royce Chemical Company, Carlton Hill, N. J., a Corporation of New Jersey
No Drawing. Application December 6, 1930 Serial No. 500,677
8 Claims. (Cl. 23—125)

1. In a process for the production of zinc sulphate solution from sludges containing zinc salts, such as from sludges obtained from the production of sodium sulphoxylate formaldehyde, the steps which comprise destroying the complex salts, by adding water to the sludge, heating the mass, agitating, passing air through the mass; thus breaking up the complex salts like zinc sulphoxylate formaldehyde, into soluble and insoluble products, removing the water soluble compounds like sodium bisulphite, sodium sulphate, treating and dissolving the sludge with sulphuric acid so as to convert the zinc oxide into zinc sulphate and separating the zinc sulphate solution by means of filtering.

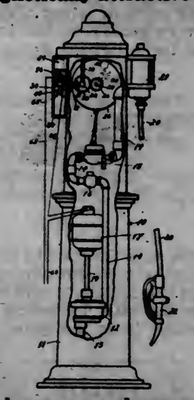
1,921,774
AUTOMATIC SAFETY RAZOR
Oscar R. Peterson, Brooklyn, N. Y.
Application February 9, 1931. Serial No. 514,554
4 Claims. (Cl. 30—12)



1. In an automatic safety razor having a frame including a pair of spaced guards connected at one end by a cross piece, a hinge member integrally formed with said cross piece, a bridge hinged to said hinge member and provided with a bifurcated extremity adapted to be swung down between the ends of said guards distant from the cross piece within the outline of the frame as a whole, said bifurcations being exteriorly notched to engage said guards in locking engagement and converged to form resilient finger pieces which tend to slip upward out of the fingers, whereby said bifurcations may be released from said guards and simultaneously propelled upward to automatically open said bridge in positive manner, there being blade carrying means supported between said guards beneath said bridge.

1,921,775
PREPAYMENT GASOLINE PUMP METER
Merritt L. Pike, Therefare, N. J.
Application October 4, 1932. Serial No. 636,124
6 Claims. (Cl. 194—6)

1. In a prepayment gasoline dispensing device, a casing, an electric circuit, an electrically controlled pump in said circuit, a pipe line leading from said pump, a meter in said pipe line, coin controlled means for closing said circuit, means actuated by the meter for removing a coin from the coin controlled means to open said circuit said coin removing means being magnetic for extracting magnetically attractive slugs from the coin controlled means, and means for stripping slugs from the coin removing means.



1,921,776
SYNTHETIC PRODUCTION OF METHANOL
Ralph S. Richardson, Teaneck, N. J., assignor to Nitrogen Engineering Corporation, New York, N. Y., a Corporation of New York
Original application April 24, 1925, Serial No. 25,590, now Patent No. 1,704,214. Divided and this application December 12, 1928. Serial No. 325,433
18 Claims. (Cl. 260—156)

1. In the process of producing methanol by passing a gaseous mixture of carbon monoxide and hydrogen over a catalyst mass at high temperatures under pressure, the step which comprises introducing gas in predetermined amounts to separated portions of different content of the catalyst mass while maintaining a continuous circulation therethrough.

1,921,777
CABLE CLIP
Frederick George Ridgers, Hamilton, Ontario, Canada, assignor to N. Slater Company Limited, Hamilton, Ontario, Canada, a Company of Canada
Application October 7, 1932. Serial No. 636,759
13 Claims. (Cl. 24—115)

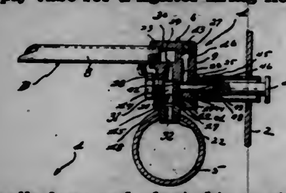


1. A cable clip adapted to engage the end and body of a cable end loop comprising an open ended preformed sleeve having a cable receiving slot extending from end to end thereof in a substantially spiral form.

1,921,778
GAS LIGHTER CONSTRUCTION
Earl W. Roberts, Detroit, Mich., assignor to Roberts Brass Manufacturing Company, Detroit, Mich., a Corporation of Michigan
Application August 17, 1931. Serial No. 557,675
7 Claims. (Cl. 158—115)

7. A gas lighter structure including a valve unit having upper and lower sections, the lower sec-

tion having a nipple portion attachable to and adapted to receive gas from a gas manifold of a stove, the upper section being connected to and adapted to receive gas from the lower section, a gas supply tube for a lighter firing head projecting laterally from and adapted to receive gas from the upper section, a valve for controlling the passage of gas from the nipple to said tube, and actuating means for the valve including a push button projecting laterally from the upper section.



1,921,779
GAS COCK
Earl W. Roberts, Detroit, Mich., assignor to Roberts Brass Manufacturing Company, Detroit, Mich., a Corporation of Michigan
Application March 21, 1932. Serial No. 600,231
11 Claims. (Cl. 277—53)



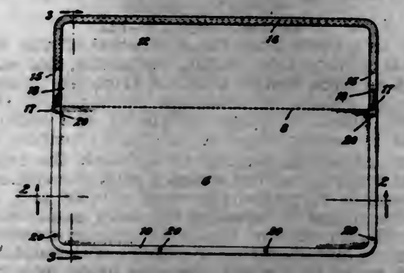
1. In a gas cock, a casing having a socket, a transversely extending inlet passage leading to the socket, a longitudinally extending outlet passage leading from the socket, and means for by-passing gas from the inlet passage to the socket, and means for controlling the flow of gas from the inlet passage to the outlet passage including a rotary plug in the socket having a longitudinal passage registering with the outlet passage and having two transversely extending passages, one being registrable with the inlet passage, and one being registrable with the by-pass means, the arrangement being such that when one is in registration the other is not in registration and vice versa.

1,921,780
WOOD FIBER MASS
Fritz Rühlemann, Wolfsgrun, and Otto Rudolf Herdey, Bautzen, Germany
No Drawing. Application August 15, 1931, Serial No. 557,426, and in Germany September 11, 1930
5 Claims. (Cl. 92—3)

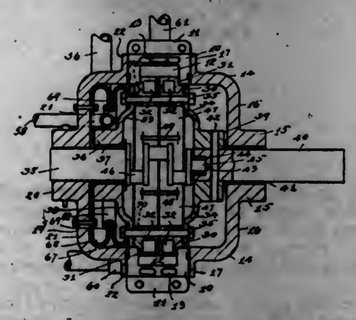
1. The process of producing a loose mass of groundwood fibers which comprises grinding wood in presence of water to produce individual fibers and fiber bundles, washing fiber-mucilage and colloidally dispersed fibers from the resulting mass, and drying the latter without application of substantial pressure.

1,921,781
STAIR CUSHION
Morris Sachs, New York, N. Y.
Application November 1, 1932. Serial No. 640,638
3 Claims. (Cl. 20—79)

1. A stair covering or cushion provided with a padded portion adapted to overlie the tread of a step, said portion being provided with a fabric covering, said fabric covering extending beyond the padded portion and projecting up on the riser of the step, a portion of the covering located on the riser being provided with stiffening means extending about its edges, said stiffening means terminating at a distance from the padded portion so that the fabric is provided with a flexible area of substantial width located between the stiffening means and the padded portion, within which the fabric covering may be folded at any desired point to increase or decrease the size of the riser portion of the cushion relative to the tread portion thereof



1,921,782
ROTARY INTERNAL COMBUSTION MOTOR
Alfred H. Schaefer, Baltimore, Md.
Application January 14, 1930. Serial No. 420,681
2 Claims. (Cl. 123—16)



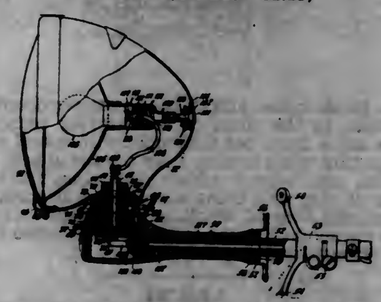
1. In a rotary internal combustion motor the combination with a stationary rotor-case having a rotor-channel around its inner circumference and provided with a flat face at one side with intake and exhaust ports, of a stationary frame at each side of the rotor-case; a rotor-body encircled by the case and its rotor-channel said body being provided with circumferential cavities at diametrically-opposite sides; a stationary crank-shaft in the rotor-body; a movable expansion-slide at the advance side of each rotor-cavity; a movable compression-slide at the trailing side of each of said rotor-cavities; means operated by the stationary crank-shaft to move the expansion-slide at one cavity outwardly while retracting the expansion-slide at the opposite cavity; means also operated by the crank-shaft for moving the compression-slide at the trailing side of the first-named cavity in one direction while moving the compression-slide at the trailing side of the opposite cavity in a reverse direction and a spark plug exposed in each cavity between a compression and an expansion-slide.

1,921,783
EXHAUST PURIFIER
Stefan Schneider, Philadelphia, Pa.
Application July 30, 1932. Serial No. 626,527
4 Claims. (Cl. 183—17)



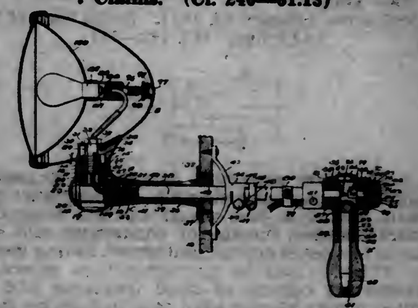
1. In combination, an oval casing member providing a primary compartment with tapering walls and having an access opening in one side, a closure plate for said opening, a nipple at one end for connection to an engine exhaust, a socket at the opposite end of said member, a second oval casing member providing a secondary compartment and having a filling opening in one side and a drain opening in the bottom, removable means to close said openings, a nipple at one end of said second member for insertion in the socket of the first member to connect said members together and having an outlet at the other end, a nozzle formed with the nipple end of the second member and projecting to a point intermediate the ends of said second member near the bottom thereof to form a communicating passageway between the two compartments, a liquid chemical in the secondary compartment in which the outlet end of the nozzle is submerged, a screen disposed across the inlet end of said nozzle, a metal sponge slidably mounted in the primary compartment and disposed across the same, and a spring to normally force said sponge away from the inlet end of the nozzle.

1,921,784
DIRIGIBLE LIGHT
Clifford Sklarek, Chicago, Ill., assignor to International Spotlight Corporation, Chicago, Ill., a Corporation of Illinois
Application September 29, 1930
Serial No. 485,901
4 Claims. (Cl. 240—61.13)



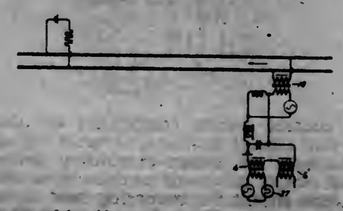
1. In a dirigible light, the combination with longitudinally separated head and handle housings rigidly associated by a tubular connection; of a bearing sleeve mounted in the head housing; a gear journaled in said sleeve; expansible means interposed between said sleeve and gear; a sleeve bolt longitudinally insertible within the gear; a lamp carrying casing; means rigidly securing said casing, gear and bolt together to rotate in unison as a unit and relatively to said bearing sleeve, said expansible means automatically taking up wear between said unit and bearing sleeve; a handle carried by the handle housing; and operating means between said handle and gear for effecting rotation of the latter.

1,921,785
DIRIGIBLE LIGHT
Clifford Sklarek, Chicago, Ill., assignor to International Spotlight Corporation, Chicago, Ill., a Corporation of Illinois
Application October 11, 1930. Serial No. 487,975
7 Claims. (Cl. 240—61.13)



1. In a dirigible light, the combination with longitudinally separated head and handle housings rigidly united by a tubular connection and together rotatable as a unit about the axis of the tubular connection, said head housing having an integrally formed bearing therein and a shoulder adjacent said bearing; of a gear journaled in said bearing, said gear having a shoulder; a lamp casing; means rigidly connecting said casing and gear to rotate in unison; a handle carried by the handle housing; operating means between said handle and gear for effecting rotation of the latter and casing; and yielding means directly interposed between said shoulders of the head housing and gear, the head housing having an opening opposite said shoulder of the head housing and through which said gear may be entered and removed.

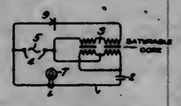
1,921,786
NONLINEAR CIRCUIT
Chauncey G. Suits, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application January 21, 1931, Serial No. 510,246
Renewed December 31, 1932
11 Claims. (Cl. 246—34)



1. In combination, a source of alternating electromotive force, a circuit comprising a condenser and an inductance coil arranged on a saturable core connected in series across said source, said condenser having capacitance such that it resonates with said coil only when said core is saturated, means responsive to a primary variable to control the degree of saturation of said core whereby the current in said condenser varies nonlinearly with respect to said primary variable, an additional coil arranged on a saturable core, and

means for controlling the saturation of said last-mentioned core in response to voltage on said condenser whereby the impedance of said additional coil varies between wide limits in response to relatively small changes in said primary variable.

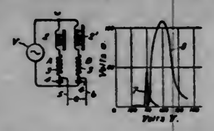
1,921,787
PULSATION APPARATUS
Chauncey G. Suits, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application January 23, 1931. Serial No. 510,750
15 Claims. (Cl. 172—281)



1. Pulsation apparatus comprising in combination a capacitance element, an inductance element having a core which exhibits saturation characteristics, means for connecting said elements in a series circuit, said circuit having means by which it may be connected to a source of alternating current of fixed frequency and by which it may be connected to a load device independently of said core, and means for causing a unidirectional magnetization of said core, the capacitance and inductance elements respectively having such values that when the apparatus is connected with a source of alternating current of predetermined voltage and frequency the effective value of the alternating current in the series circuit undergoes regular recurring variations.

15. In combination, a source of supply of alternating current having a frequency of substantially sixty cycles per second, a load device, a capacitance element and a saturable core inductance element connected in a series circuit, a saturating winding for said core, a rectifier and means connecting said winding and rectifier with said source of supply.

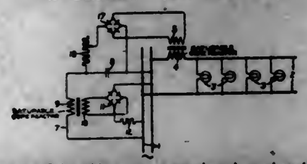
1,921,788
ELECTRIC CONTROL SYSTEM
Chauncey G. Suits, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application June 15, 1931. Serial No. 544,311
19 Claims. (Cl. 171—97)



1. A control system comprising an alternating current circuit having a variable voltage applied thereto, an electro-responsive device and resonant circuit means dependent upon the voltage of said circuit for rendering said device operative through a limited portion of the total range of voltage variation the limits of said portion being intermediate the limits of said range.

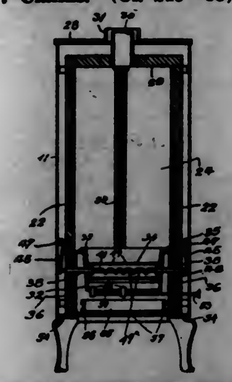
19. A selective control system comprising an alternating current circuit, means for varying the voltage of said circuit, a plurality of non-linear circuits connected with said circuit and constructed to have different resonant and dissonant voltages and a plurality of relays connected respectively between various pairs of said non-linear circuits.

1,921,789
PULSATION APPARATUS
Chauncey G. Suits, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application July 1, 1932. Serial No. 620,426
2 Claims. (Cl. 171—97)



2. In combination, a constant potential source of alternating current supply, a load circuit connected therewith, a saturable core reactor arranged in series in the load circuit and having a saturating winding, an alternating current pulsation circuit supplied from said source and including a capacitor and a saturable core reactor, a rectifier having its input circuit connected across said capacitor and its output circuit connected to supply said saturating winding and a rheostat in said input circuit.

1,921,790
ELECTRIC INCINERATOR
Rowland P. Sword, Philadelphia, Pa., assignor to Electric Incinerators Incorporated, Philadelphia, Pa.
Application May 12, 1932. Serial No. 610,890
7 Claims. (Cl. 219—35)



7. In an incinerator of the character described, a grate in the form of an inverted truncated cone and a firing box suspended within said grate, insulating tubes leading from the firing box, conductor rods housed within said tubes, the inner ends of said rods being concaved, a heating element, the ends of which are seated in concaves, and means for holding the rods against the heating element under spring pressure.

1,921,791
MEANS FOR ADJUSTING THE PLUNGERS OF MEASURING INSTRUMENTS
Charles R. Syme, Detroit, Mich., assignor to Louis F. Peeck, Dayton, Ohio
Application February 24, 1931. Serial No. 517,766
6 Claims. (Cl. 33—147)

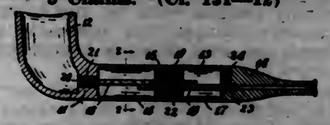
1. In a measuring instrument including an operating plunger, the combination of an adjustment plunger out of axial alinement with the operating plunger, means on the adjustment plunger for raising or lowering the operating plunger when the adjustment plunger is turned,

an adjusting sleeve supporting the adjustment plunger, and a drive connection between the



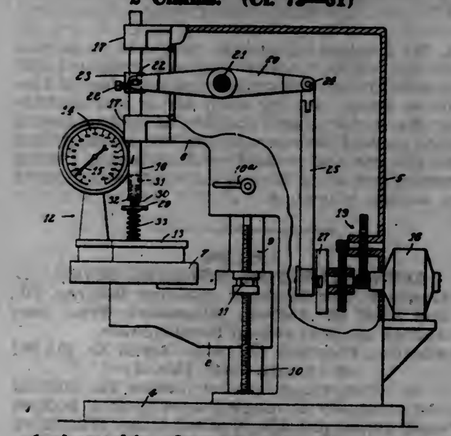
sleeve and adjustment plunger to turn it for a measuring adjustment within extremely close limits.

1,921,792
SANITARY SMOKING STEM FOR PIPES, CIGARS, AND THE LIKE
Joseph Salagyi, New York, N. Y.
Application February 1, 1932. Serial No. 590,156
5 Claims. (Cl. 131—12)



1. A stem for pipes, cigar holders and the like, said stem having a head end and a hollow forming a chamber, in combination with a removable mouthpiece closing said chamber, a plug dividing said chamber into two compartments and formed with peripheral grooves allowing communication between the compartments, a smoke tube extended through the head end and through said plug into one of said compartments, a second smoke tube extended from the mouthpiece through the plug into the other compartment, and means for varying the peripheral passage of the grooves on said plug.

1,921,793
SPRING TESTING MACHINE
Carl A. Thelander, Rockford, Ill., assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill., a Corporation of Illinois
Application March 1, 1928. Serial No. 258,255
2 Claims. (Cl. 72—51)



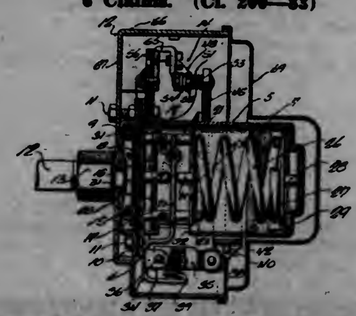
1. A machine for measuring the compressive strength of coil springs comprising a frame, a vertically adjustable bracket on said frame, a force measurement platform on said bracket positioned to serve as a lower abutment for a coil spring under test, a force indicating dial having a pointer, means connecting said pointer to said platform to indicate the force exerted by said spring, a plunger above said platform reciprocable toward and away from said platform, a presser foot adjustable on the lower end of said plunger and serving as an upper abutment for said spring, a pivotally supported lever having one end thereof releasably secured to said plunger for driving said plunger and varying the clearance between said presser foot and said platform, an adjustable pitman secured to the opposite end of said lever for oscillating said lever and reciprocating said plunger through any of a plurality of strokes, and means for continuously driving said pitman.

1,921,794
EXPANSION SHIELD OR ANCHOR
Charles C. Tomkinson, Plainfield, N. J., assignor to J. Edward Ogden Company, Inc., East Orange, N. J., a Corporation of New Jersey
Application November 14, 1931
Serial No. 574,953
6 Claims. (Cl. 85—2.4)



1. An expansion shield comprising a substantially cylindrical member formed of relatively hard metal, and a cup of ductile material seated in and closing the inner end of said shield and having its open end facing outwardly.

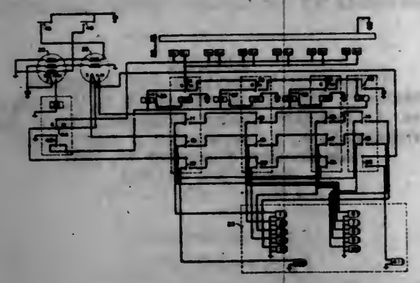
1,921,795
SWITCH
Gustav O. Wilms, Milwaukee, Wis., assignor to Allen-Bradley Company, Milwaukee, Wis., a Corporation of Wisconsin
Application November 12, 1931
Serial No. 574,517
6 Claims. (Cl. 200—83)



1. A switch of the character described comprising a fixed cylinder, a flange on the cylinder, a diaphragm having its peripheral edge portion engaging the flange and movable into the cylinder upon the application of pressure on its exterior, a terminal head having a portion engaging the flange, means for securing the diaphragm to the flange, part of said means securing the terminal head to the flange, a stationary contact carried by the terminal head, a movable contactor engageable with the stationary contact, a contactor carrier pivotally mounted from the cylinder and adapted to carry the contactor from one position to the other, a spring within

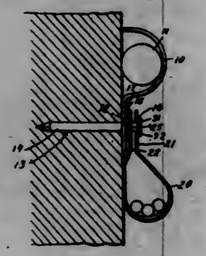
the cylinder opposing inward movement of the diaphragm, and means responsive to motion of the diaphragm and spring for imparting a snap action to the contactor carrier upon predetermined movement of said means.

1,921,796
CABLE CODE SIGNALING SYSTEM
Marion H. Woodward, East Orange, N. J., assignor to International Communications Laboratories, Inc., Newark, N. J., a Corporation of New York
Application March 4, 1932. Serial No. 596,771
11 Claims. (Cl. 178—63)



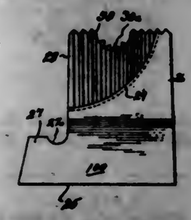
1. In a telegraph system, means for receiving signals composed of a non-uniform number of equal length impulses, recording means having a plurality of sets of selectable printer magnets, and means for operating the magnets of said sets in different combinations from the received signals.

1,921,797
BRIDLE RING
Roy A. Armie, Ridgewood, N. J., assignor to J. Edward Ogden Company, Inc., East Orange, N. J., a Corporation of New Jersey
Application December 2, 1931. Serial No. 578,439
2 Claims. (Cl. 248—36)



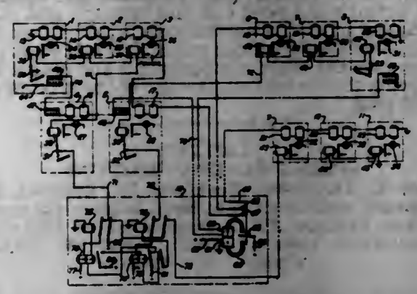
1. A bridle ring for use with a headed supporting member and comprising a strip of resilient material bent upon itself to form a loop and substantially parallel inner and outer end portions, the inner portion having an opening dimensioned to receive the head of a supporting member and a recess adjoining said opening for receiving the shank of said member and the outer end portion having a notch extending thereinto from one side edge thereof for receiving the shank of the supporting member, and means at the outer end of said notch arranged to coact with the head of the supporting member for resiliently holding the outer end of the bridle ring against accidental separation of said head.

1,921,798
FURNACE FOR LIQUID FUEL BURNERS
Reginald W. Beckett, Detroit, Mich., assignor, by mesne assignments, to Timken Silent Automatic Company, Detroit, Mich., a Corporation of Michigan
Application April 28, 1928. Serial No. 273,522
6 Claims. (Cl. 158—4)



1. In an oil burning furnace, a hearth having an element of refractory material located at its periphery and extending upwardly in the path of the combustible mixture, said element presenting substantially vertical walls to, and having passages therein open to the approaching combustible mixture, said passages having their bottoms curved upwardly.

1,921,799
REMOTE MOTOR CONTROL
Abraham S. Benjamin, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a Corporation of Delaware
Application April 4, 1932. Serial No. 603,061
8 Claims. (Cl. 178—4.1)

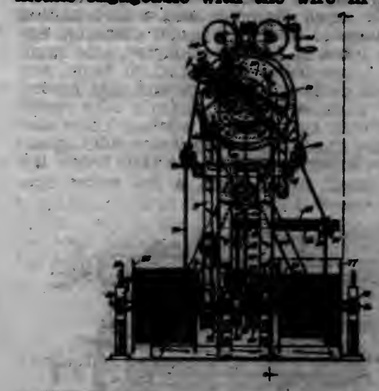


1. In a signaling system, receivers, transmitters, line circuits connecting said receivers and transmitters for transmission, motors for said receivers, relays, one for each motor and controlling the stopping and starting of said motors, a motor-control wire comprising two sections, said relays connected to said sections and a control repeater operating to open the other section when one section is opened.

1,921,800
APPARATUS FOR MARKING WIRE
Clarence P. Bereisheimer, Chicago Heights, Ill., and Karl H. Andren, Milwaukee, Wis.; said Andren assignor to said Bereisheimer
Application February 11, 1931. Serial No. 515,001
18 Claims. (Cl. 153—1)

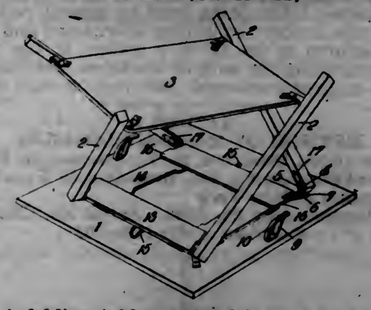
1. In combination, a rotor, means for guiding a longitudinally advancing wire over a portion of said rotor and again around the rotor in a position laterally spaced from the first position, means for initially clamping a marker about said wire in its first position on the rotor, and other

means engageable with the wire in its second



position on the rotor for additionally pressing the marker on the wire.

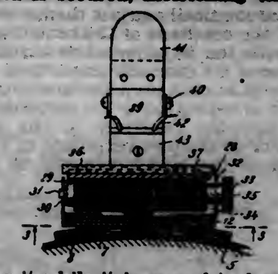
1,921,801
COLLAPSIBLE TABLE, STAND, BOX, OR THE LIKE
Peter Ernest Bird, London, England
Application June 6, 1931, Serial No. 542,557, and in Great Britain June 11, 1930
2 Claims. (Cl. 45—11)



1. A folding table or stand having a top, legs and a lower shelf or frame, wherein each leg is connected with the top to swing about an axis which is in a plane parallel with the plane of the top and which axis can itself swing about another axis at right angles to the plane of the top, the lower ends of the legs being similarly connected with a lower shelf or frame, the axes which are at right angles to the table top and lower shelf or frame respectively being disposed at or approximately at the corners of equal equilateral figures and in each leg the distance between the axes being equal or approximately equal to the length of a side of the said figure.

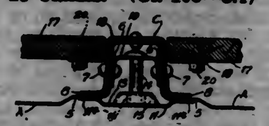
1,921,802
METHOD OF WAVING HAIR
Harry Benat, New York, N. Y.
Application November 26, 1932
Serial No. 644,416
2 Claims. (Cl. 132—36)

1. The method of waving hair upon the human head which comprises dividing the hair into compact strands, the cross-section of each strand being generally circular, firmly securing each strand adjacent the scalp, spreading the hairs of each strand fanwise, winding the hair from its outer ends to a point adjacent the point where the strand is secured, moistening the hair and



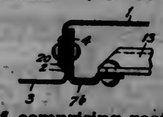
subjecting it while it is wound to heat sufficient to fix a wave in the hair.

1,921,803
CAR ROOF
Charles David Bonsall, Pittsburgh, Pa., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania
Application April 30, 1931. Serial No. 533,954
15 Claims. (Cl. 105—5.4)



1. A car roof comprising roof sheets extending from side plate to side plate and spaced apart along their adjacent margins which are provided with upstanding flanges, flat-topped inverted channel-shaped carlines straddling the spaced side flanges of adjacent roof sheets, and horizontally disposed members located within said carlines between the spaced roof sheet flanges straddled thereby and rigidly secured to said flanges and to the side walls of said carlines.

1,921,804
CAR ROOF
Charles David Bonsall, Pittsburgh, Pa., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania
Application July 2, 1931. Serial No. 548,304
3 Claims. (Cl. 105—5.4)

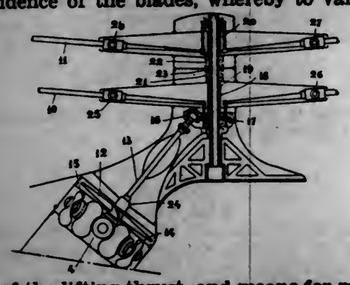


3. A car roof comprising roof sheets adapted, arranged and rigidly riveted together at their edges to form alternating ribs and channels, reinforcing members secured to one side wall of said ribs by the rivets that secure the sheets together at their edges, and metal strips located beneath the outer heads of the securing rivets for said seam reinforcing members and said sheets.

1,921,805
HELICOPTER
Ferdinando Bordoni, Rome, Italy
Application February 26, 1932, Serial No. 595,282, and in Italy February 17, 1931
10 Claims. (Cl. 244—19)

1. A helicopter provided with a shaft and fitted with two coaxial propellers revolving in opposite directions and having blades which are provided with an articulation allowing the blades to oscil-

late in a plane passing through the center of said shaft and automatically adjust themselves in the direction of the resultant of the centrifugal force combined with the aerodynamical thrust, which propeller blades are rotatable about their longitudinal axes, and on each propeller are connected to a ring which is individual to the propeller and individually movable relatively to the propeller shaft in order to produce variations of the angle of incidence of the blades, whereby to vary the



value of the lifting thrust, and means for moving each of said rings, which latter, in uneven or dissimilar setting, cause the formation of a differential couple for veering the machine as a whole, and in even or similar setting, cause a periodic variation of the angle of incidence of the blades so as to oscillate the latter and thereby produce inclination of the plane of rotation of the propellers and vary the direction of the lifting thrust thereof, there being means for rotating said propellers.

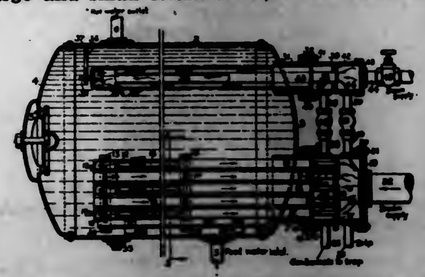
1,921,806
HEAT EXCHANGE APPARATUS
Carl T. Carlson, Erie, Pa.
Application October 18, 1932. Serial No. 638,396
4 Claims. (Cl. 257—208)



2. The combination with a container having a relatively thin metal wall, of a jacket comprising a series of relatively small and closely spaced channels of relatively thin metal welded at their longitudinal edges to a wall of the tank and forming a series of conduits a part of the surface of which consists of said wall, and means to flow fluid through said conduits.

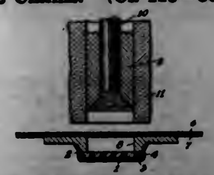
1,921,807
WATER HEATER
Joseph W. Carroll, Philadelphia, Pa., assignor to P. Carroll & Sons, Philadelphia, Pa., a co-partnership consisting of Edward P. Carroll and Joseph W. Carroll
Application May 31, 1932. Serial No. 614,423
12 Claims. (Cl. 257—238)

1. A hot water generator comprising in combination, a horizontally positioned tank provided on its interior with a heating section arranged near the lower portion of the tank and consisting of a plurality of steam heating return tubes each comprising an inner steam supplying tube of relatively small diameter and a surrounding jacketing tube of relatively larger diameter enclosing the tubes of smaller diameter, said small and large tubes being telescoped in pairs and opening into each other at one end and having their other ends secured to separate tube sheets and respectively opening into a steam chest and a condensate chamber, a feed water inlet opening into the lower portion of the tank below the large and small steam tubes, a hot water out-



let from the upper part of the tank, means for supplying steam to the steam chest, means for permitting the discharge of the condensate from the condensate chamber, and means for supporting the distant ends of the smaller diameter tubes upon the interior portions of the surrounding jacketing tubes of relatively large diameter, said larger tubes being held in spaced relation by a tube support extending downward and fixedly secured to the interior bottom of the tank for supporting the ends of the tubes and holding them against movement relatively to the tank.

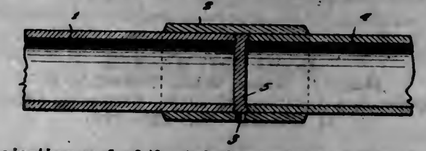
1,921,808
METHOD OF MAKING CLOSURES
Benno Cohn, Brooklyn, N. Y., assignor to Ferdinand Gutmann & Co., Brooklyn, N. Y., a Corporation of New York
Application July 20, 1932. Serial No. 623,476
3 Claims. (Cl. 113—80)



1. The herein described method of making closures comprising the following steps in continuing succession: the application of a cementing medium to a metal shell, the deposit within the shell upon said medium of a sealing gasket, the application of heat to said gasket, the placing on the exposed heated face of the gasket of a facing disk having a fusible adhesive on one face thereof, and clamping said gasket against said shell and the interposed cementing medium, and said disk against said gasket and the interposed adhesive by a continuing pressure until said cementing medium and said adhesive have set, whereby a closure including a sealing gasket having a center spot may be produced by a single continuing procedure.

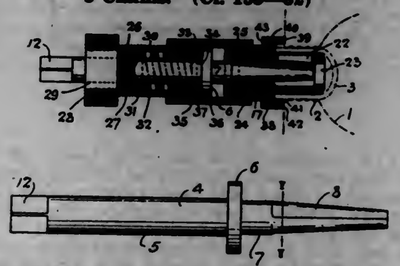
1,921,809
GAS PIPE STOP
Earl Crain, West Frankfort, Ill.
Application November 6, 1931. Serial No. 573,447
4 Claims. (Cl. 285—193)

1. The method herein described of connecting an extension to a gas line which consists in securing to the end of the line a tubular body containing a fusible plug to close the end of the gas line, securing the end of an extension to the



projecting end of the tubular body, and then applying heat to the tubular body to entirely melt the plug and establish flow from the gas line to the extension.

1,921,810
BOILER PLUG EXPANDER
Ernest Duchesne, Schenectady, N. Y.
Application December 12, 1931. Serial No. 580,549
5 Claims. (Cl. 153—32)



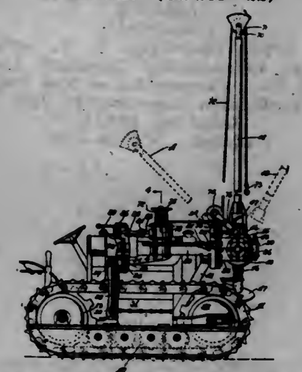
1. A tool for expanding a cylindrical object, comprising an expander member free for lateral movement; a member for forcing said expander member laterally to effect expanding of said object, said forcing member having a surface having a cam effect circumferentially of the forcing member and also a cam effect axially of the forcing member; means for rotating said forcing member to bring said circumferential cam effect into play; and means for feeding the forcing member axially to bring said axial cam effect into play.

1,921,811
CORK REMOVER
Ludwig Eger, New York, N. Y.
Application December 5, 1932. Serial No. 645,713
1 Claim. (Cl. 65—46)



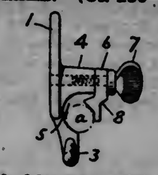
In a device for removing corks from bottles including a pump and its nipple and an injector needle attached thereto, a collar on said nipple, and a support for the device on a bottle having upper inwardly bent lips to engage said collar, and lower upwardly bent inclined and yielding lips to rest upon the upper bead of the bottle, and a regulating valve formed with said nipple for regulating the flow of air and for preventing the sucking of the bottle contents into said pump.

1,921,812
POLE SETTING APPARATUS
Nicholai M. Erdahl, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin
Application March 13, 1929. Serial No. 346,656
16 Claims. (Cl. 255—22)



1. An earth boring machine including a boring head angularly adjustable about a pair of transverse axes, an auger shaft carried by the head and movable therewith, said shaft being adapted to have positive rotary and longitudinal reciprocatory motion imparted thereto, and locking means independent of the means for imparting said motion for securing said shaft at will at a plurality of positions of longitudinal adjustment.

1,921,813
HEAD ROD HOLDER
William S. Feeny, Philadelphia, Pa.
Application November 13, 1931. Serial No. 574,742
3 Claims. (Cl. 156—15)

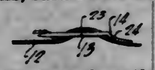


1. A head rod holder comprising a base having a tapped pedestal and a concavity, a clip having a screw hole, and a screw for detachably mounting the clip on the pedestal, said clip having a shank with substantially parallel faces and provided on opposite sides with recessed jaws disposed at different distances from the center line of the faces of the shank and spaced at different distances from the screw hole and adapted to be reversed to clamp head rods of different diameters in said concavity.

1,921,814
PIN TICKET
Carl A. Flood, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a Corporation of Massachusetts
Application June 11, 1932. Serial No. 616,634
7 Claims. (Cl. 40—25)

1. A pin ticket comprising a tag, and a pin inserted at one side of the tag and threading

into the body thereof, the rearward end of the pin having a shoulder on the side next to the tag and the outer surface of said pin end being free of projections, said shoulder being presented



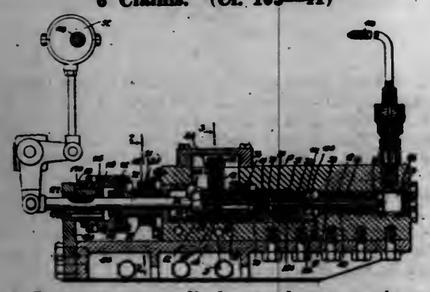
to the tag inside the boundary thereof, and means for restraining the pin from accidentally turning on its axis sufficiently to cause said shoulder to project from the tag.

1,921,815
CALENDAR
John L. Gibbs, Bronxville, N. Y., assignor to American Lithographic Company, Inc., New York, N. Y., a Corporation of New York
Application November 12, 1932
Serial No. 642,343
5 Claims. (Cl. 40—119)



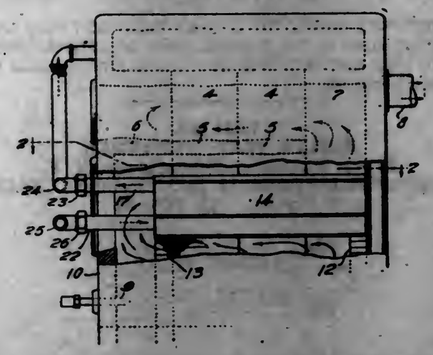
1. In a calendar, a cover member and a calendar sheet secured thereto along a transverse folding line, the height of said sheet being substantially equal to the distance of said folding line from the bottom edge of the front portion of said cover member; a second transverse folding line parallel with and above said first folding line, said lines being spaced apart a short distance whereby when said cover is opened for display a portion of the back sheet, equal to twice the distance between said folding lines, is exposed below the calendar sheets.

1,921,816
ECCENTRIC DRIVEN HIGH PRESSURE PUMP
Winder E. Goldsborough, South Norwalk, Conn., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware
Application May 31, 1929. Serial No. 367,242
6 Claims. (Cl. 103—41)



1. In a pump, a cylinder, a plunger reciprocative therein, a sleeve surrounding said plunger having a groove in the surface thereof, a passage in the wall of the plunger adapted to cross said groove in the course of the reciprocation of said plunger, means whereby only that portion of the plunger stroke during which said passage traverses said groove is effective in forcing fluid from said pump, and means whereby the width of the groove traversed by said passage is varied to vary the quantity of fluid forced from said cylinder upon each stroke of said plunger.

1,921,817
DOMESTIC HEATER
Harry A. Grine, White Plains, N. Y.
Application January 20, 1933. Serial No. 652,612
11 Claims. (Cl. 122—210)



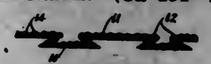
1. In combination a domestic heater of the hot water or steam type having heating surfaces designed for hand fired coal operation and a detachable auxiliary heating surface consisting of a plurality of abutting sections disposed in the fire box area and extending substantially across the maximum width thereof and spaced sufficiently from at least one side of the fire box so as to permit upward passage of the gases through the opening thus formed and constituting an additional pass, each section having its greatest dimensions in a horizontal plane and being of sufficiently smaller width than the fire door to permit introduction therethrough and means connecting each section to the water system of the heater at a point below the lowest point of the section and at a point above the highest point of the section, and a fuel burner of the blower actuated type in the ash pit of said heater.

1,921,818
COASTER WAGON
Charles W. Haagen, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc., Philadelphia, Pa., a Corporation of Pennsylvania
Application November 23, 1932
Serial No. 644,005
8 Claims. (Cl. 280—87.5)



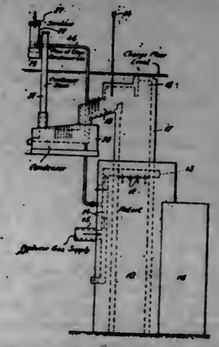
1. A steering coaster wagon comprising side rails, a spacer extending transversely between and secured to their front ends, a pair of chairs respectively disposed above and below the spacer in the vicinity of its mid-point and having interconnected tongues normally extending substantially parallel to the side rails, a front axle, means interconnecting the axle with one of the chairs, a steering bar secured to the other chair, a spring extended between the ends of the tongues and each side rail, and means pivotally interconnecting the chairs with said spacer.

1,921,819
CELLOPHANE AND FANCY PAPER PRODUCTS AND THE LIKE
Emanuel M. Hacker, New York, N. Y., assignor of one-half to David Usdan, Lawrence, N. Y.
Application December 20, 1932. Serial No. 648,076
12 Claims. (Cl. 154—2)



1. Fancy "Cellophane", comprising a sheet of smooth "Cellophane" minutely wrinkled over its surface, and a minute deposit of an astringent on said sheet for concentrating the said wrinkling and for better bringing out the crystalline effect of the "Cellophane".

1,921,820
REDUCING ZINCIFEROUS MATERIAL
Erwin C. Handwerk and George T. Mahler, Palmerton, Pa., assignors to The New Jersey Zinc Company, a Corporation of New Jersey
Application June 15, 1932. Serial No. 617,294
12 Claims. (Cl. 75—28)



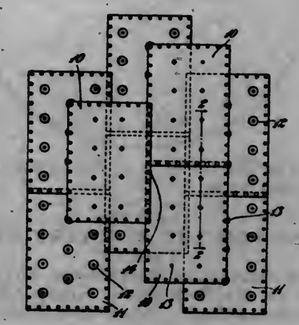
1. The improvement in the reduction of zinciferous material and condensation of the resulting zinc vapor which comprises passing the exhaust gases from the condenser through a closed system to a combustion chamber associated with the reduction retort for utilizing said gases in generating heat, promoting the passage of the gases through said system by aspiration with liquid, and regulating the suction effect of said aspiration upon the exhaust gas outlet of the condenser to maintain a predetermined gas pressure in the condenser.

1,921,821
INSECT REPELLER
Walter E. Higgins, Waterloo, Iowa
Application May 6, 1932. Serial No. 609,697
3 Claims. (Cl. 299—24)



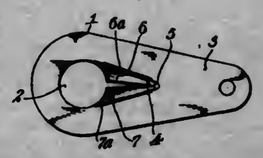
1. In a device of the character described, a closed container having outwardly and downwardly inclined apertures arranged horizontally along one face and having said face surrounded by a flange, and a porous pad fitted in said flange to receive a liquid repellent through said apertures when the container is jarred to splash the contents.

1,921,822
MANUFACTURE OF ROADS, YARDS, AERODROMES, AND LIKE SURFACES AND MEANS THEREFOR
John Hines, Barnes, London, England, assignor to Braithwaite & Co. Engineers Limited, London, England
Application September 14, 1931, Serial No. 562,721, and in Great Britain September 19, 1930
9 Claims. (Cl. 94—4)



1. A road and like foundation structure embodying therein top and bottom spaced layers, each comprising metal plates arranged with the edges of the plates in one layer offset with respect to the edges of the plates of the other layer and a non-metallic filling material disposed between said layers.

1,921,823
ELECTRICAL CONNECTER
Richard T. Hosking, Wilmette, Ill., assignor, by mesne assignments, to Shakeproof Lock Washer Company, Incorporated, Chicago, Ill., a Corporation of Delaware
Application October 25, 1929. Serial No. 402,517
6 Claims. (Cl. 173—269)

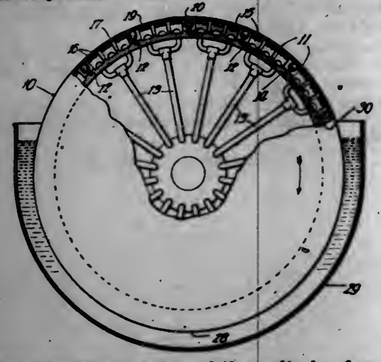


3. A locking terminal having a bolt-receiving aperture and an elongated shank having a slit extending lengthwise thereof terminating at one end in said aperture, the corners defined by said slit and said aperture being deflected sidewise and projecting respectively above and below the plane of the terminal, presenting biting teeth whose bases extend substantially lengthwise the shank.

1,921,824
FORMING CYLINDERS
Erwin H. Hussey, Springfield, Ohio
Application February 24, 1931. Serial No. 517,089
10 Claims. (Cl. 92—43)

1. The combination in a sectioned forming cylinder comprising a section dividing strip hav-

ing ports therein to permit communication between adjacent sections, and a valve member



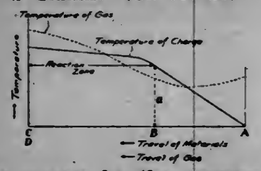
operated by the rotation of the cylinder for controlling said ports.

1,921,825

PROCESS FOR THE RECOVERY OF METAL VALUES

Friedrich Johannsen, Magdeburg, Germany, assignor to the firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany

Application April 5, 1929, Serial No. 352,850, and in Germany April 18, 1928
2 Claims. (Cl. 75—28)



2. In the process for the recovery of metal values from metallurgical materials containing metal compounds reducible to volatile products, by causing a mixture of the materials and a reducing fuel to travel through a rotary tube furnace solely by means of the rotation of said furnace and subjecting the mixture to the action of an oxygen-containing gas whereby the said reducible metal compounds are reduced and volatilized, and the volatilized substances and combustible gases are burned in contact with the charge to furnish a substantial portion of the heat required, the improvement which comprises passing the metallurgical material, the fuel and the oxygen-containing gas, together with the gaseous products of combustion, through said furnace all in the same direction, the quantity of air being so regulated that a reducing or neutral atmosphere is maintained at the discharge end of the furnace.

1,921,826

METHOD OF ASSEMBLING SUSPENDERS AND SLIDES

Lyndon W. Joyce, Greensboro, N. C., assignor to Joyce-Venning Manufacturing Co., Inc., Greensboro, N. C., a Corporation of Delaware

Application December 12, 1930
Serial No. 501,946
2 Claims. (Cl. 241—14)

1. Method of assembling a suspender web and a suspender slide in operative relation comprising, folding the web so as to provide at least two layers at the point which is to be engaged by said slide, providing a slide having a frame for engaging one side of the folded web and a middle bar for engaging the other side, said middle bar being open at an intermediate point to permit entrance of the folded web into said slide; bending the portions of said middle bar away from one another to provide a space substantially as wide as the width of said slide, introducing said folded web through said opening into a position between



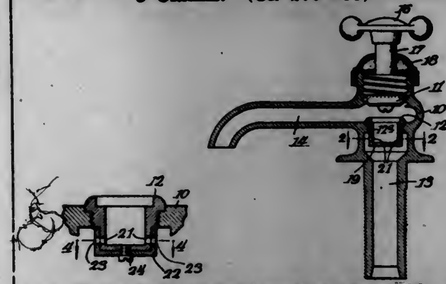
said frame and said middle bar, arranging a ferrule blank on said web at the point to be overlain by the free ends of the portions of said middle bar, and closing said opening by bending said middle bar into substantially the same plane as said frame and closing said ferrule upon the adjacent ends of the portions of said middle bar.

1,921,827

WATER FAUCET

Samuel Kersten, Chicago, Ill.

Application May 12, 1930. Serial No. 451,564
3 Claims. (Cl. 277—66)



1. In a water saving faucet, a removable valve seat, and a cup-shaped member integral with the valve seat and forming a part thereof, said cup-shaped member being apertured to permit a restricted flow of water therethrough and past the valve seat and being accessible only by dismantling the faucet whereby the flow of water is restricted during the entire time in which the faucet is in use.

1,921,828

EXTENSION MOUNTING FOR GARMENT CARRIERS

Joseph J. Knape, Grand Rapids, Mich., assignor to Knape & Vogt Manufacturing Company, Grand Rapids, Mich., a Corporation of Michigan

Application February 16, 1931. Serial No. 516,103
3 Claims. (Cl. 312—177)



3. In an appliance of the type set forth, a cabinet, a garment carrier, means for supporting the inner end of said carrier, a bracket attached to the front portion of the cabinet, said bracket having spaced apart depending headed pins and said garment carrier having a bracket at each side thereof, each with an outturned flange, one flange on one bracket being slotted inwardly from its outer edge and the other flange of the other bracket having an arc shaped slot therein extending inwardly from the side edge of the bracket flange.

1,921,829

REFRIGERATING MACHINE

Leland G. Knapp, Chicago, and Joseph N. Roth, Arlington Heights, Ill., assignors to Montgomery Ward & Co., Incorporated, Chicago, Ill., a Corporation of Illinois

Application September 28, 1929
Serial No. 395,560
4 Claims. (Cl. 248—16)



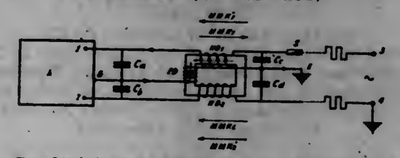
1. A mounting for motor-compressor units, comprising a sustaining member, supporting vertically-elongated casings, yielding inserts disposed within the casings, the sustaining member anchored in the upper portions of the inserts, the casings closely fitted about and laterally supporting substantially the lower half of the inserts and leaving the upper half free to yield both laterally and vertically.

1,921,830

PROTECTIVE GROUND CONNECTION

Karl Heinrich Krambeer, Berlin-Wilmersdorf, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany, a Corporation of Germany

Application August 6, 1931, Serial No. 555,514, and in Germany September 26, 1930
3 Claims. (Cl. 175—294)



1. In electrical systems wherein electrical operating apparatus is connected to a source of electrical energy through a network including choke windings and in which the electrical operating devices are provided with a grounded protection casing, a circuit breaker device located in said network and adapted to become operative to disconnect the electrical operating apparatus from the source whenever the current flow in the network due to an abnormal condition in the system becomes substantially excessive as when a short circuit exists between the network and the grounded casing, a choke-coil associated with said grounding connection and cooperating with at least one of the choke windings in said network, for reducing the impedance of the network choke winding while said short circuit exists thereby temporarily increasing the flow of current in said network to assure prompt operation of the circuit breaker.

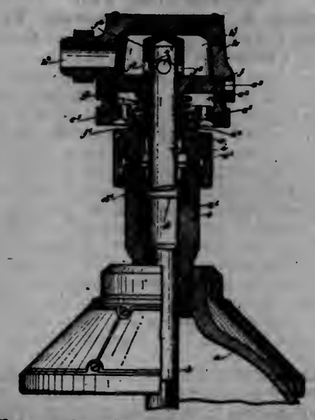
1,921,831

CUTTER VALVE FOR RELEASE OF FLUIDS

Daniel Mapes, Mamaroneck, N. Y., assignor to Walter Kidde & Company, Inc., New York, N. Y., a Corporation of New York

Application May 15, 1928. Serial No. 278,009
6 Claims. (Cl. 169—11)

2. The combination of a container, a coupling member secured to the container and formed with a seat, a sealing disc, means to retain the sealing disc on said seat, a second coupling member formed with a chamber, a third coupling member secured to the second coupling member and formed with a delivery connection, a piston mounted in the chamber of the second member, means to prevent effective resistance to the operative movement of the piston, and a tubular cutter carried by the piston and adapted to cut out the central portion of the disc in its forward movement with the piston, the tubular cutter having near its remote end from the disc a port to establish communication between the container and the delivery connection.



4. The combination of a container, a coupling member secured to the container and formed with a seat, a sealing disc, means to retain the sealing disc on said seat, a second coupling member detachably secured to the first coupling member and formed with a chamber and having a fluid flow connection, said last named coupling member having a bore of lesser passage dimension than said chamber, said bore being the sole means of direct communication between said chamber and said sealing disc, a piston mounted in said chamber and subject to pressure from an external source, means cooperating by a close working substantially gas tight fit within said bore to close off communication between the underneath side of said piston and said sealing disc, means to prevent effective resistance to the operative movement of the piston, and a device carried by the piston and adapted to rupture the disc in its forward movement with the piston.

1,921,832

WATCH OR CLOCK MOVEMENT

Herman I. Marmorstein, Bronx, N. Y.

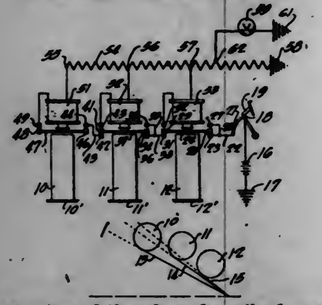
Application August 7, 1931. Serial No. 555,656
5 Claims. (Cl. 58—125)



1. In a movement of the type described, an hour-dial, a ratchet connected thereto, a pivotally mounted pawl, said pawl being adapted to be

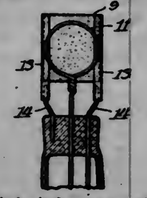
oscillated and to intermittently turn said ratchet, a turnable member having an operating pin connected thereto, said pawl having a projection turnably mounted thereon, said projection being free to turn with respect to said pawl in only one direction so that the movement of said operating pin in one direction is effective to operate said pawl and the movement of said operating pin in the opposite direction is ineffective to operate said pawl.

1,921,833
DECELEROMETER
William B. McGorum, Norfolk, Va.
Application February 26, 1931. Serial No. 518,478
4 Claims. (Cl. 177—311.5)



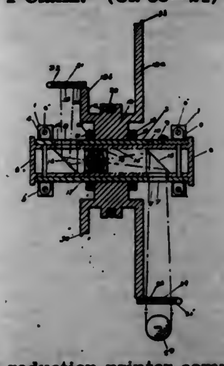
1. Apparatus of the class described, comprising a plurality of similarly directed planes inclined at different angles to the horizontal, a cylindrical rolling body disposed on each plane, an electric circuit comprising normally open branch circuits connected in parallel, an electro-magnet in each branch circuit, a movable bridge piece for closing each branch circuit, one bridge piece being disposed across each plane at the upper end thereof and in the path of the rolling body disposed thereon, the magnets of each branch circuit being adapted to hold the bridge piece of such circuit in circuit-closing position while the magnet is energized, connections for opening other branch circuits as one branch circuit is completed by its bridge piece, and indicating means responsive to the completion of each branch circuit.

1,921,834
PHOTO-ELECTRIC TUBE
Archie J. McMaster, Chicago, Ill., assignor to G-M Laboratories, Inc., Chicago, Ill.
Application August 17, 1929. Serial No. 386,527
2 Claims. (Cl. 250—27.5)



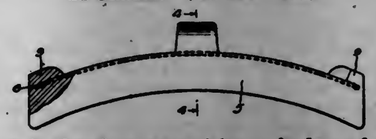
1. A photoelectric tube comprising an envelope, a stem extending into said envelope, a non-conducting plate, a pair of conducting strips supporting said plate, an electron emissive substance forming a coating for said plate and making electrical conducting contact with said strips, a hydride surface on said coating forming a light sensitive cathode, and an anode for receiving electrons therefrom.

1,921,835
OPTICAL PRINTER
Freeman H. Owens, New York, N. Y.
Application May 28, 1929. Serial No. 366,646
1 Claim. (Cl. 88—24)



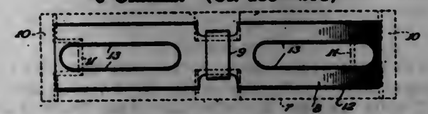
An optical reduction printer comprising a single rotatable sprocket having spaced toothed end portions of widely different diameters, means for supporting a negative image bearing film for engagement by the teeth of the larger of said end portions, means laterally spaced from said first means for supporting a sensitized positive film for engagement by the teeth of the smaller of said end portions, means for illuminating said negative film, and a lens for passing light from said illuminated film to the positive film, said lens being nearer to and focused upon said positive film.

1,921,836
BRAKE SHOE MANUFACTURE
Robert B. Pogue, Orange, N. J., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del., a Corporation of Delaware
Application January 4, 1932. Serial No. 584,740
11 Claims. (Cl. 188—258)



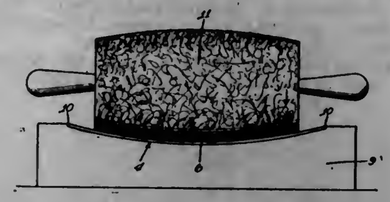
1. A brake shoe comprising a body and a dry reenforce embedded therein, said reenforce being free in the body but anchored therewith and capable of limited relative movement therein.

1,921,837
BRAKE SHOE
Robert B. Pogue, Orange, N. J., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del., a Corporation of Delaware
Application May 31, 1930, Serial No. 457,813
Renewed June 28, 1932
6 Claims. (Cl. 188—258)



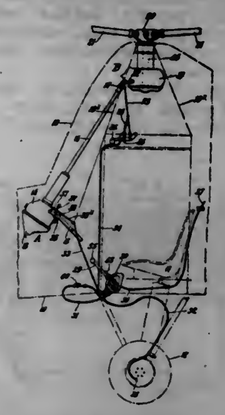
1. A brake shoe comprising a body and a reenforce back embedded therein, said back having its end portions independent of but rigidly secured in the end portions of the body and its intermediate portion free from but anchored to the body.

1,921,838
BRAKE SHOE
Robert B. Pogue, Orange, N. J., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del., a Corporation of Delaware
Original application May 31, 1930, Serial No. 457,813. Divided and this application January 7, 1932. Serial No. 585,343
9 Claims. (Cl. 188—258)



1. A brake shoe reenforce back having a coating of refractory material thereon to protect the coated part of the back from becoming embedded in intimate contact with the body during the casting of the shoe.

1,921,839
AIRCRAFT HAVING FREELY ROTATIVE SUSTAINING WINGS
Arthur H. C. A. Rawson, London, England, assignor to Autogiro Company of America, Willow Grove, Pa., a Corporation of Delaware
Application October 29, 1932, Serial No. 640,137, and in Great Britain November 19, 1931
12 Claims. (Cl. 244—19)



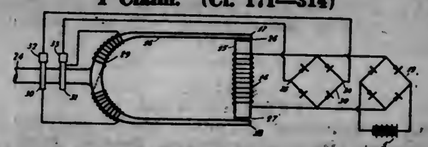
1. In an aircraft of the character described, a forward propulsion engine, a primary sustaining system comprising a rotor hub and rotary wings mounted above the body of the craft, a mechanism for initiating rotation of said wings prior to take-off from the ground including a drive connection extended between the engine and the rotor hub, a disconnectible clutch associated with said drive connection adjacent said hub, means for controlling engagement and disengagement of said clutch, alighting mechanism for the craft including a wheel with a brake, a control element for the wheel brake, and means for interrelating the operation of said control element and the clutch controlling means.

1,921,840
BATTERY TERMINAL OR CONNECTER
Henry A. Recen, Kokomo, Colo., assignor of one-half to Charles W. Burnheimer, Kokomo, Colo.
Application February 2, 1932
Serial No. 590,259½
9 Claims. (Cl. 173—259)



1. A battery terminal comprising a lug provided at one end with an opening for attaching a cable thereto and at the other end with an opening adapted to receive and encircle a battery terminal the last named opening having a wall formed in part by a cylindrical surface of substantially 180 degrees extent and in part by a cam surface eccentric with respect to the center of the cylindrical surface, a clamping member of concavo convex cross section located in the opening, the inner surface of the clamping member being cylindrical and when in one position substantially concentric with the corresponding cylindrical surface of the opening, the convex surface of the clamping member being eccentric and adapted to contact with the eccentric wall portion of the opening and a handle attached to the clamping member for turning the same.

1,921,841
METHOD OF CHARGING ACCUMULATORS
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a Corporation of Delaware
Application January 13, 1930. Serial No. 420,405
1 Claim. (Cl. 171—314)

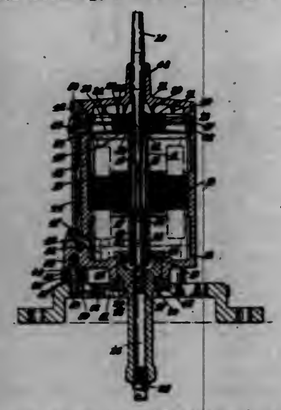


In charging apparatus in combination, a storage battery, a rectifier of the copper oxide type connected therewith and a rotational type generator of alternating currents having its output connected to the rectifier, said generator including a field winding and an armature winding one of which is rotatable with respect to the other and means for varying the voltage generated by the generator in a predetermined manner with respect to variations in the speed of rotation thereof, said rectifier being adapted through said connection to the storage battery to charge the same, an auxiliary rectifier of the copper oxide type connected across the output of the generator and conductively related to the field winding of the generator whereby electric current rectified by the auxiliary rectifier is caused to flow through the field winding of the generator to energize the same.

1,921,842
CENTRIFUGAL MACHINE
James Lever Rushton, Bolton, England, assignor to Dobson & Barlow Limited, Bolton, England, a British Company
Application October 21, 1929, Serial No. 401,324, and in Great Britain April 18, 1929
3 Claims. (Cl. 308—170)

1. A centrifugal machine comprising, in combination, a casing having a base portion consti-

tuting a reservoir for lubricant, a vertical hollow shaft having an upper and a lower bearing in the casing, a self-centering spindle mounted within said hollow shaft so as to provide an annular space within the upper part of the hollow shaft, means coupling the spindle with the shaft so as to be driven by it, said casing having an auxiliary chamber and a closed lubricating system comprising the hollow shaft for supplying lubricant to the upper bearing, a duct for supplying lubri-



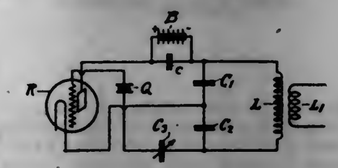
cant from the latter to said reservoir and means rotatable with said hollow shaft for supplying lubricant by way of the lower bearing from said reservoir to said auxiliary chamber, and up the hollow shaft, which means is constituted by the lower part of said spindle extending into said auxiliary chamber, which lower part of the spindle is hollow and opens into said annular space and is provided with an external helical groove for connecting said reservoir with said auxiliary chamber.

1,921,843
FURNACE WALL
John A. Schruefer, Ferndale, Mich., assignor to Bigelow-Liptak Corporation, Detroit, Mich., a Corporation of Michigan
Application September 5, 1931. Serial No. 561,385
17 Claims. (Cl. 72—101)



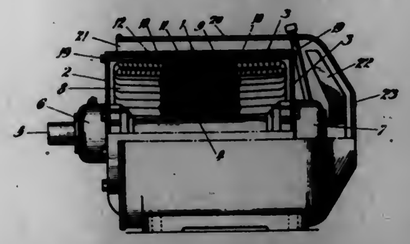
12. A refractory or heat-insulating block having front and back upright substantially-parallel surfaces, a top surface at practically right angles to and directly adjacent to said back surface, an intermediate upright surface directly connected with the inner margin of said top surface and at substantially right angles to said top surface, a sloping surface at an obtuse angle to said intermediate and front surfaces and connecting the lower margin of said intermediate surface and the upper margin of said front surface, and a sloping bottom surface connecting said back and front surfaces and at an obtuse angle to said back surface.

1,921,844
CRYSTAL CONTROLLED OSCILLATOR
Hans Schumacher, Berlin - Lichterfelde - West, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany
Application February 10, 1931, Serial No. 514,781, and in Germany February 11, 1930
3 Claims. (Cl. 250—36)



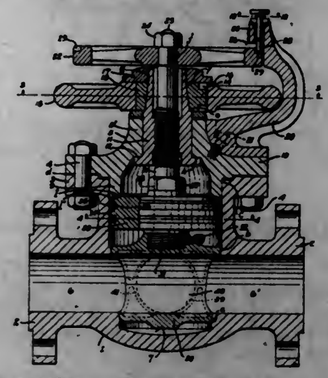
1. In a high frequency oscillator, comprising a vacuum tube having filament, grid and plate electrodes, an output circuit connected between said grid and said plate electrode, a connection from said filament to a tap point on said output circuit, a compensating condenser connected in the lead from said grid electrode to said output circuit in series with an electromechanical oscillating control device.

1,921,845
DYNAMO-ELECTRIC MACHINE
Harold L. Smith, Frank J. Rathbun, and Alfred M. Forman, Milwaukee, Wis., assignors to The Louis Allis Company, Milwaukee, Wis., a Corporation of Wisconsin
Application May 9, 1929, Serial No. 361,770, and in Canada April 27, 1928
8 Claims. (Cl. 172—36)



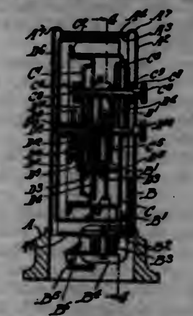
1. An enclosed dynamo-electric machine, comprising a stator provided with a liminated core having its laminæ imperforate between its winding slots and its outside, an end ring arranged upon each end of said core, a binding arranged across said laminæ in engagement with the outside edges thereof and connected to said end rings to secure said laminæ between the same, a closed end plate arranged upon each end ring and forming therewith a closed inner casing, means to secure said end plates in position upon said core, a rotor arranged within said core and having its shaft bearing in said end plates, and a ventilating casing arranged around said core to enclose a ventilating passage for the circulation of external air over said core.

1,921,846
VALVE
Stanley W. Sparks, Norwalk, Conn., assignor to Charles H. Bickell, trustee
Application December 30, 1929. Serial No. 417,542
2 Claims. (Cl. 251—161)



1. In a valve mechanism, the sub-combination comprising a valve body having a valve chamber therein, a rotating plug member, having a fluid way extending therethrough mounted in said valve chamber and having separate areas of its lateral surface depressed below the normal limits of said surface so as to form a series of continuous curvilinear seating pads and certain of said seating pads being so disposed as to completely surround the respective ports of said fluid way and others of said seating pads being interposed between the seating pads surrounding said ports, the function of such other pads being to reinforce the plug, and all of said seating pads serving to form a continuous series, the pads being interconnected at the points of tangency thereof, whereby the margins of said fluid ways will be completely surrounded by said seating pads and an effective seal between said pads and the inner surface of a valve chamber within which such plug is mounted will be afforded.

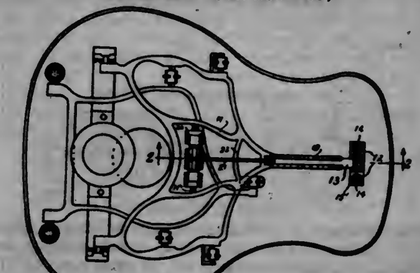
1,921,847
SYNCHRONOUS MOTOR CLOCK
Walter A. Spear, Cincinnati, Ohio, assignor, by mesne assignments, to Victor Electric Products, Inc., Cincinnati, Ohio, a Corporation of Ohio
Application August 11, 1930. Serial No. 474,398
10 Claims. (Cl. 58—125)



1. In an alternating current electric clock, of the type including a clock base, a housing positioned upon said base, a drum mounted for rotation within said housing, the exterior of said drum being provided with time indicating markers, said housing being apertured in line with said drum and markers, and means for rotating the drum, including a train of gears positioned interiorly of said drum, and an alternating current motor adapted to drive said train of gears, the combination with said drum rotating means of a substantially oil tight inner housing, positioned within said drum, in which the gear train and motor rotor are housed.

10. In a clock, a base member, a housing mounted upon the base and including spaced parallel side members upstanding from the base and a transversely extending wall member joining said side members, and means for securing the housing to said base including a strap member embracing the housing and secured at its ends to said base, said housing and strap being provided with aligned apertures for exhibiting the indicating mechanism positioned within the housing.

1,921,848
TEMPERATURE COMPENSATING MEANS FOR WEIGHING SCALES
Walter F. Stimpson, Detroit, Mich., and Willis E. Finch, Bareville, Pa.; said Finch assignor to said Stimpson
Continuation of application Serial No. 316,123, October 31, 1928. This application August 7, 1931. Serial No. 555,690
12 Claims. (Cl. 265—69)

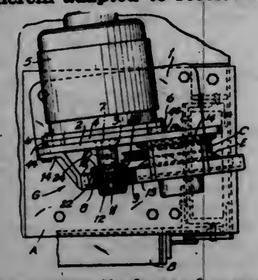


1. In a weighing scale having load supporting means, a lever movable proportionately to the load carried thereby, and load counterbalancing means variable in effective resistance to the load with changes of temperature, means for counteracting such variances of the load counterbalancing means, comprising a slidable portion carried by the lever, a thermostat for controlling the sliding thereof proportionately to temperature variances, and means for locking the slidable portion against such movement when sufficient load is placed upon the scale.

1,921,849
DOOR OPERATING MECHANISM
Maurice W. Talen, St. Louis, Mo., assignor to Security Fire Door Company, St. Louis, Mo., a Corporation of Missouri
Application March 18, 1931. Serial No. 523,643
4 Claims. (Cl. 74—7)

1. An operating unit comprising a main supporting bracket, an electric motor supported on said bracket, a pinion fixed to the armature shaft of said motor, a sheave rotatably supported on said bracket, a gear rotatable with and located outwardly of said sheave and intermeshing with said pinion, a housing removably secured to said bracket and enclosing said pinion and said gear,

said bracket and said housing being spaced apart opposite said sheave to provide a space for the latter, the bracket opposing side of said housing being provided with a removable cover plate having openings therein adapted to receive said pinion

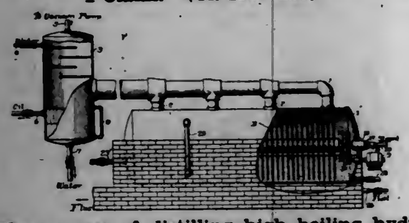


and said gear, respectively, and means for preventing the escape of lubricant from said housing through the joints between said pinion and said sheave and the openings therefor in said cover plate.

1,921,850
PROCESS OF DISTILLATION

Vanderveer Voorhees, Hammond, Ind., assignor to Standard Oil Company, (Indiana), Chicago, Ill., a Corporation of Indiana

Application March 1, 1930. Serial No. 432,280
1 Claim. (Cl. 196—128)



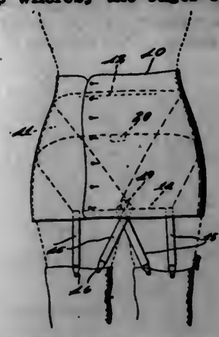
The process of distilling high boiling hydrocarbon oil in vacuum with substantially no cracking or entrainment of undistilled oil in the vapors, comprising maintaining a body of oil in a still at a temperature below that at which any substantial cracking occurs, alternately immersing and removing a plurality of closely spaced surfaces in said oil body at a rate sufficient to coat the emergent surfaces with a film of oil but insufficient to violently agitate the oil and produce entrainment thereof, introducing a current of steam directly into the space between said surfaces at a rate insufficient to rupture the oil film thereon and produce entailed oil particles, and withdrawing and condensing the combined steam and oil vapors from the still.

1,921,851
HOSE SUPPORTER

Birdora H. White, Chicago, Ill., assignor to Parva Products Company, Hillsdale, Mich., a Corporation of Delaware

Application July 14, 1930. Serial No. 467,909
2 Claims. (Cl. 241—2)

1. In a hose supporter, a strip of flexible inelastic material having an intermediate portion adapted to snugly engage the back of the wearer above the hips and having end portions adapted to extend forwardly and downwardly around the body of the wearer to the lower extremity of the trunk of the wearer, said strip of material being of sufficient length to be free from confining engagement with the front of the body of the wearer and the ends of said strip being secured together adjacent the upper edge only of said strip whereby the edges of the ends of

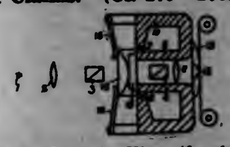


said strip are free from connection to each other throughout the major portions of their lengths and hose supporters secured to the free edges of the ends of said strips.

1,921,852
LIGHT CONTROLLING METHOD AND MEANS

Alfred Whitaker, West Drayton, England, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a Corporation of Delaware

Application October 25, 1928, Serial No. 315,947, and in Great Britain October 29, 1927
11 Claims. (Cl. 179—100.3)



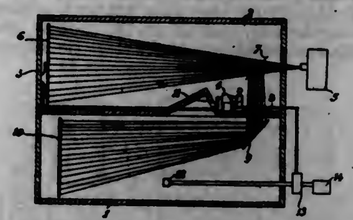
1. A method of controlling the intensity of a beam of polarized light in accordance with sound vibrations which consists in applying an initial mechanical stress to a body that is isotropic in the unstressed condition and birefringent when stressed, passing a beam of polarized light through said body, and applying to said body additional mechanical stresses corresponding to said sound vibrations.

1,921,853
PREPARATION OF SOUND RECORDS FOR REPRODUCTION IN COMBINATION WITH MOVING PICTURES

Alfred Whitaker, West Drayton, and Austin Maurice Hallawell, Wallington, England, assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y., a Corporation of Delaware

Application September 14, 1929, Serial No. 392,651, and in Great Britain September 21, 1928
5 Claims. (Cl. 88—16.2)

1. The method of forming a sound record to accompany a moving picture which comprises simultaneously projecting the same picture on screens at a plurality of separated points, observing the action of the picture at one of said points and producing sounds to accompany said action, reproducing said sounds at another of said points acoustically isolated from said first-named point, changing the characteristics of said reproduced sounds in accordance with the action

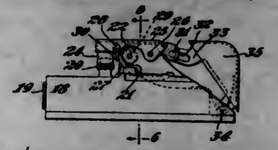


of the picture, and recording said changed sounds on a sound record receiving medium.

1,921,854
COMBINATION CIGARETTE CASE AND LIGHTER

Frederick A. Whittaker, Attleboro, Mass., assignor to Marathon Company, Attleboro, Mass., a Corporation of Massachusetts

Application August 31, 1932. Serial No. 631,153
4 Claims. (Cl. 67—7.1)



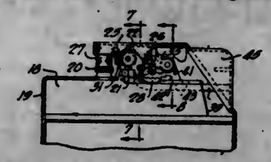
1. A cigarette lighter comprising a casing having rigid wall members providing a compartment in the upper portion of said casing, said casing having a cut-off corner providing a corner aperture in the upper end of the compartment, lighter mechanism including pyrophoric and friction members, a snuffer and actuating means for operating the friction member and snuffer housed within said compartment, a complementary corner piece normally closing said aperture and pivotally mounted at its lower end to be swung manually into said compartment through said aperture, and connections between said corner piece and said actuating means for operating the lighter mechanism.

1,921,855
COMBINATION CIGARETTE CASE AND LIGHTER

Frederick A. Whittaker, Attleboro, Mass., assignor to Marathon Company, Attleboro, Mass., a Corporation of Massachusetts.

Application December 17, 1932. Serial No. 647,770
6 Claims. (Cl. 67—7.1)

4. In a lighter of the type having a fuel receptacle, a burner, a snuffer, and ignition means including pyrophoric and friction members housed within a casing having a cut off corner providing a corner aperture in said casing, actuating means for operating said friction member and snuffer comprising an arm pivoted about an axis intermediate its ends, one end of said arm supporting said snuffer and arranged to swing upwardly away from said burner, the opposite end of said arm having a bifurcated depending portion arranged to swing downwardly toward said receptacle, a roller journaled in said bifurcated portion, said roller constituting a cam follower, means connected to said arm for actuating said friction member when said arm is swung upwardly, means disposed on the top wall of said receptacle providing a slideway in alignment with the path of movement of said follower, a cam member movable along said slideway and engageable with said follower to effect the actuation of said arm in response to movement of said cam, and a thumb-piece secured to said cam, said thumb-piece normally



closing said aperture in the casing and constituting a collapsible corner thereof whose outer surface is substantially continuous with that of the casing.

1,921,856
PRODUCTION OF GASEOUS MIXTURES CONTAINING HYDROGEN AND NITROGEN FROM METHANE

Gustav Wietzel, Ludwigshafen-on-the-Rhine, and Georg Schiller, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany

No Drawing. Application February 14, 1929, Serial No. 340,016, and in Germany April 21, 1928
4 Claims. (Cl. 23—212)

1. In the production of gases comprising hydrogen by treatment of gases comprising methane with steam, the step of regulating the temperature, the amount of steam and the rate of flow of the gases in such a manner that from 2 to 15 per cent of methane remain in the gas obtained, and then removing the methane from the gaseous mixture thus obtained by conversion with a gas comprising oxygen.

1,921,857
COLOR LAKES

Bodo Zschimmer and Franz Pohl, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application May 27, 1930, Serial No. 456,287, and in Germany May 31, 1929
9 Claims. (Cl. 260—11)

1. A process for the production of color lakes of basic dyestuffs, which comprises precipitating the basic dyestuff by means of a salt of a complex acid comprising in its anion an element selected from the class consisting of tungsten and molybdenum, said solution having a hydrogen ion concentration which is smaller than that of a corresponding solution of the acid salt of the said complex acid but higher than pH=7.

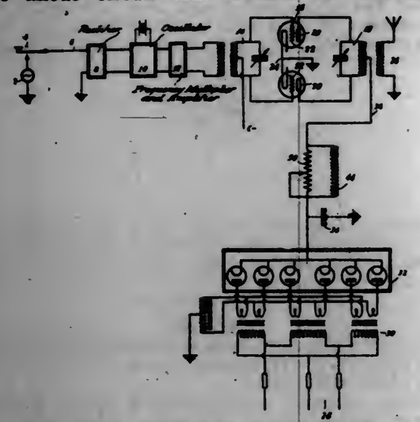
1,921,858
SUPPLY CIRCUIT FOR AMPLIFIERS

Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware

Application May 19, 1930. Serial No. 453,465
4 Claims. (Cl. 250—8)

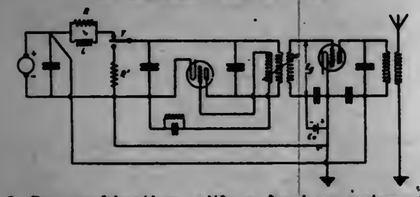
1. In combination, a power amplifier having a high frequency anode circuit and an input circuit; a source of rectified alternating current for supplying the anode with unidirectional potential; means for supplying keyed input energy to the input circuit of the amplifier; and a circuit, comprising the parallel connection of an inductance and a resistance, in series with the anode supply lead from the rectifier and between

the anode circuit and rectifier for reducing



anode potential when keyed energy is first introduced into the input circuit of said amplifier.

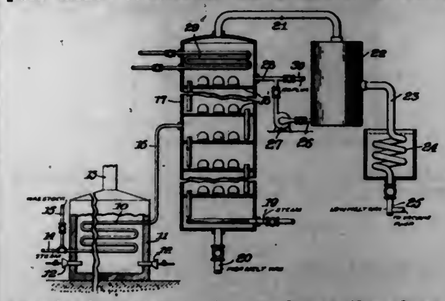
1,921,859
ELIMINATION OF KEY SHOCKS
Hans Roder, Scotia, N. Y., assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany
Application September 9, 1930, Serial No. 480,714, and in Germany September 17, 1929
10 Claims. (Cl. 250—8)



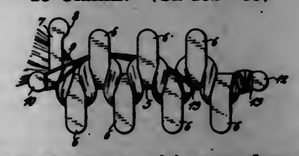
1. In combination with a keying system for avoiding key shocks in transmitter tubes wherein when the plate supply lead to the transmitter tube is opened by keying the signal amplitude decreases and increases when the lead is closed by keying, a resistor in series with the key when the lead is closed for retarding the rise of keying impulses, a choke coil connected in parallel with said resistor for avoiding the drop in potential across the said resistor, a second resistor in series with said key when the plate supply lead is opened by keying for accelerating the decrease in keying impulses during periods when the key is opened, means for connecting the generator tube with a second transmitting tube, and means for applying a negative biasing potential to the transmitting tube of such value that the small variations of the radio frequency control amplitude will be ineffective in the antenna circuit.

1,921,860
DISTILLATION OF WAX MATERIALS
William H. Bahlke, Hammond, Ind., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana
Application October 5, 1929. Serial No. 397,535
8 Claims. (Cl. 196—17)

8. The method of treating separated wax derived from distillate oils to secure higher melt-point waxes therefrom, which comprises completely vaporizing the wax without substantial cracking thereof and partially cooling the vapors under conditions characteristic of sub-atmospheric pressure to condense therefrom a higher melting wax having the desired characteristics and substantially free from low melt wax.

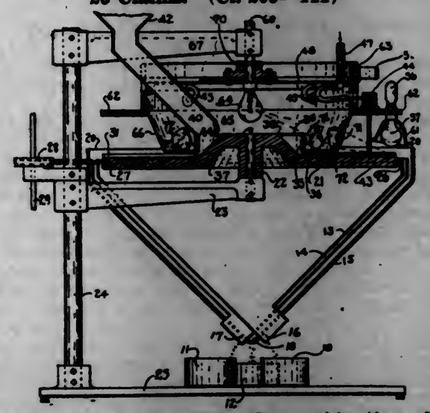


1,921,861
HAIR WAVER
Elnora E. Baldwin, Denver, Colo.
Application July 30, 1932. Serial No. 626,675
13 Claims. (Cl. 132—33)



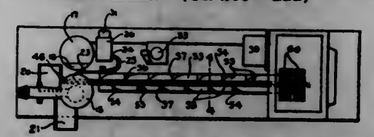
1. A hair waver comprising an elongated body member having spaced fingers extending from opposite sides thereof, one of the end fingers having an enlargement on the side nearer the adjacent finger to hold the hair in place.

1,921,862
AUTOMATIC SORTER
Everett H. Bickley, Cynwyd, Pa.
Application December 31, 1928. Serial No. 329,375
26 Claims. (Cl. 209—111)



3. In a sorting machine, the combination of a photo-electric cell, and means for ejecting a fluid medium, including variable means actuated by said cell for controlling the ejection of the fluid medium to automatically segregate objects according to variations in the color thereof.

1,921,863
SORTING MACHINE
Everett H. Bickley, Cynwyd, Pa.
Application June 25, 1929. Serial No. 373,619
13 Claims. (Cl. 209—111)



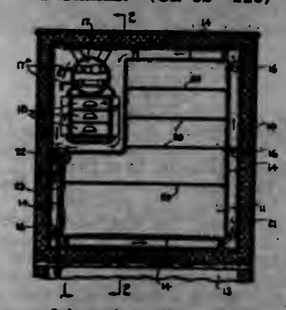
10. In combination a sorting mechanism comprising a light sensitive cell, means actuated by said cell for segregating objects according to light reflecting characteristics, a positioning device for bringing said objects into operative association with said cell, and means for vibrating said objects during the operation of said positioning device.

1,921,864
UNDERFEED ROTARY GRATE STOKER
Charles Broesman, Indianapolis, Ind.
Application January 10, 1931. Serial No. 507,803
15 Claims. (Cl. 110—36)



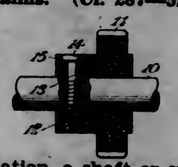
1. In a furnace, the combination of a central hollow feed-riser, means for feeding fuel upward through said riser, and a substantially horizontal rotary grate surrounding said riser, the upper end of said riser having some parts lower than others so that the fuel will in large part be discharged from the riser on to the rotary grate at a definite location with respect to the riser.

1,921,865
REFRIGERATOR
Chalmer C. Curtis, Cuyahoga Falls, Ohio
Application January 31, 1931. Serial No. 512,593
4 Claims. (Cl. 62—116)



1. In a refrigerator, the combination of a cabinet, a food compartment therein comprising metal walls which are spaced from the walls of the cabinet and define a fluid-tight passage therebetween, and a refrigerating unit mounted in said passage, said unit having a sharp-freezing compartment, the food compartment wall being formed with an aperture therethrough, and the margins of the aperture being sealed to the refrigerating unit about the opening to the sharp-freezing compartment therein.

1,921,866
KEYING STRUCTURE FOR MOTION PICTURE PROJECTION MACHINES
Augusto Dina, Elizabeth, N. J., assignor to International Projector Corporation, New York, N. Y., a Corporation of Delaware
Application November 30, 1929
Serial No. 410,330
3 Claims. (Cl. 287—52.08)



1. In combination, a shaft or support, an element such as a gear thereon, a key such as a screw to fasten the gear to the shaft, said gear being of non-metallic material, and a saddle of metal disposed between the screw or key head and the adjacent surface of the gear, said saddle having a flat inner surface to contact with the gear and an outer curved surface to simulate the curvature of the gear, and taking the pressure of the key and contacting with the head thereof, the area of contact between the head and the saddle being small and the area of contact between the saddle and the gear being relatively large to distribute over a larger area the pressure between the head and the saddle to prevent wear and damage to the gear surface.

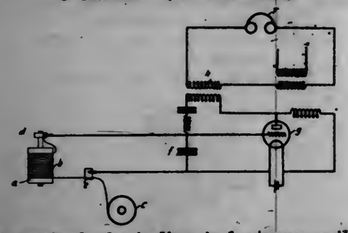
1,921,867
PRODUCTION OF POLYMERIZATION PRODUCTS OF DIOLEFINES
Georg Ebert, Friedrich August Fries, and Paul Garbsch, Ludwigshafen - on - the - Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application June 10, 1930, Serial No. 460,287, and in Germany October 10, 1929
9 Claims. (Cl. 260—6)

2. In the production of a polymerization product from a diolefine in the presence, as polymerizing agent, of a metal selected from the group consisting of alkali metals and alkaline earth metals the step of polymerizing said diolefine in contact with a small amount of a halogen derivative of a hydrocarbon.

1,921,868
METHOD OF MELTING NONFERROUS METALS
George Septimus Evans, Bronxville, N. Y., assignor to The Mathieson Alkali Works, New York, N. Y., a Corporation of Virginia
No Drawing. Application January 21, 1931
Serial No. 510,282
1 Claim. (Cl. 75—22.5)

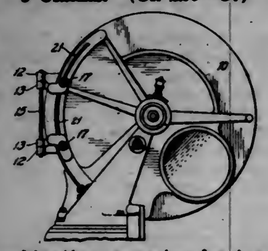
In a method of melting metals of the brass type in an electric induction furnace, the step of introducing soda ash into the furnace with the charge in the proportions of from about 0.1% to 0.4% of the metal charge to produce a slag covering which is molten in the plane of contact with the metal and dry on its upper surface.

1,921,869
METHOD OF AND MEANS FOR MAKING COILS POSSESSING ACCURATE INDUCTANCE
Wolfgang F. Ewald, Berlin, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany
Application September 19, 1930, Serial No. 482,917, and in Germany September 26, 1929.
3 Claims. (Cl. 175—183)



1. A method of winding inductance coils having accurate predetermined inductance values which comprises, connecting the coil to an oscillation generator circuit during the winding operation thereof, varying the frequency of oscillations generated by the generator circuit in accordance with variations in the inductance of the coil while being formed, comparing the frequency of oscillations produced thereby with a standard frequency and arresting the coil forming operation when the varying frequency generated reaches a predetermined value as compared with said standard frequency value.

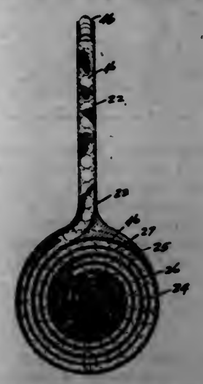
1,921,870
FILM MAGAZINE CLOSURE
Louis Simon Frappier and Ewald Boecking, Brooklyn, N. Y., assignors to International Projector Corporation, New York, N. Y., a Corporation of Delaware
Original application June 29, 1929, Serial No. 374,676. Divided and this application July 24, 1930. Serial No. 470,352
9 Claims. (Cl. 220—37)



1. In combination, a casing having a circular opening, a door for closing said opening, means for hingedly mounting said door comprising a hinge and means for peripherally adjusting said hinge with respect to said opening, comprising clamping devices carried on said hinge and extending through arcuate slots on said casing.

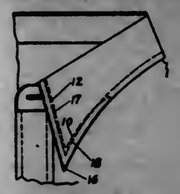
1,921,871
MAGAZINE FOR RAPID FIRE ARMS
Alonzo F. Gaides, Redwood City, Calif.
Application September 9, 1931. Serial No. 561,846
5 Claims. (Cl. 42—50)

1. A magazine comprising an elongated tube fitting into a fire-arm and having its open end adapted to cooperate with the slide of the firing mechanism of the fire-arm, a housing on the other end of the tube being divided into a continuous spiral passage, the outer periphery of the passage being contiguous with the said tube; a follower slidable in the spiral passage to urge



the cartridges toward the open end of the magazine, means outside of the housing to urge the follower toward said open end of the magazine; and means of connection between the follower and said urging means being slidably extended through a wall of said housing.

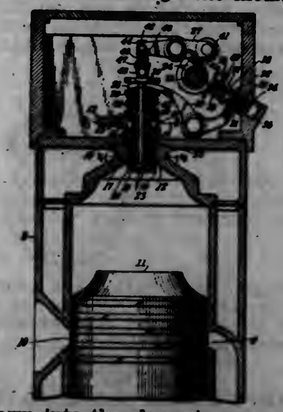
1,921,872
SOFT COLLAR
Gordon B. Galbraith, Roselle, N. J.
Application September 19, 1931
Serial No. 563,761
4 Claims. (Cl. 2—132)



1. A soft collar having a plural-ply V-shaped stiffening piece of fabric secured along two edges but open along the third edge and having a relatively sharp point extending to the extremity of the point of the collar and sewed thereto within the strips of fabric comprising the collar.

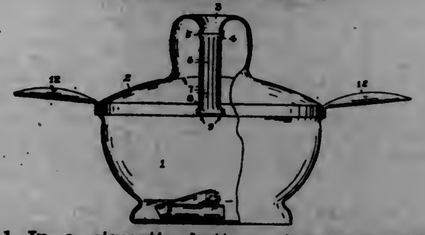
1,921,873
FUEL INJECTOR
George A. Gillen, Bronx, N. Y., assignor to Gillen, Kimmey, Baker, Syndicate, Inc., New York, N. Y., a Corporation of New York
Application February 12, 1931. Serial No. 515,161
7 Claims. (Cl. 299-107.2)

1. In a device of the character disclosed, a supporting structure having a bore with a port opening thereinto, a check valve for holding liquid admitted to said bore, a sleeve sliding in said bore and having a closed end, with a flange portion overstanding the end of the supporting structure, an injection port adjacent said closed end and behind said flange in position to be closed by the supporting structure and a supply port registering with the first port in one position of the sleeve, and a plunger operating in said sleeve to uncover and cover the supply port and to shift the sleeve through the medium of the



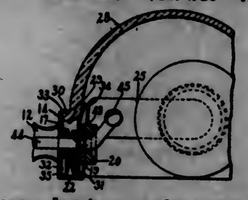
liquid drawn into the sleeve to uncover the injection port.

1,921,874
CIGARETTE EXTINGUISHER
John C. Glomb, Bradfordwoods Borough, Pa.
Application October 23, 1931. Serial No. 570,567
2 Claims. (Cl. 131—51)



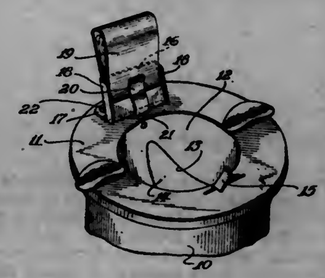
1. In a cigarette butt receiver and extinguisher, the combination of a vessel comprising a bowl and a snugly fitting removable lid, the lid being provided with an opening in its top, and a tube depending from said opening within the vessel and the vessel when the lid is in place being smoke-tight except for the bore of the tube, the tube being of proper internal diameter to be plugged against the upward escape of smoke by the insertion of a cigarette butt therein, said tube being slit longitudinally to provide pressure tongues which are bowed inwardly to lightly support the butt in the tube.

1,921,875
LAMP
Hubert M. Greist and George J. La Vigne, New Haven, Conn., assignors to Greist Manufacturing Company, New Haven, Conn.
Application February 9, 1931. Serial No. 514,398
9 Claims. (Cl. 240—73)



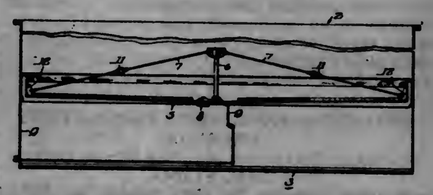
1. A lamp having a shade-supporting arm, said arm being provided with a plate and a post projecting from the plate, a shade suported by the arm, means secured to said shade having spring arms to embrace and engage the post, and means to clamp the shade against the plate.

1,921,876
MATCH BOOK HOLDER FOR ASH RECEPTACLES
Albert C. Grunwald, River Forest, Ill., assignor to Precision Metal Workers, Chicago, Ill., a Corporation of Illinois
Application February 8, 1932. Serial No. 591,595
2 Claims. (Cl. 206—81)



1. In a match book holder adapted for application to an ash tray, a substantially rigid slide having projecting side flanges throughout its length for retaining a book of matches against sidewise displacement, and provided with an integral foot adapted for attachment to the tray, a resilient retainer disposed in front of the slide and between said projecting side flanges to grip a book of matches and retain it therebetween, and having a foot underlying the foot of the slide, the upper end of the retainer lying adjacent the slide and being curved away from the slide, and means for securing the foot of the slide to the ash tray with the foot of the retainer clamped between the foot of the slide and the tray.

1,921,877
FLOATING ROOF FOR TANKS
George V. Hacket, Independence, Mo., assignor to Standard Oil Company, (Indiana), Chicago, Ill., a Corporation of Indiana
Application September 22, 1930
Serial No. 483,536
4 Claims. (Cl. 220—26)



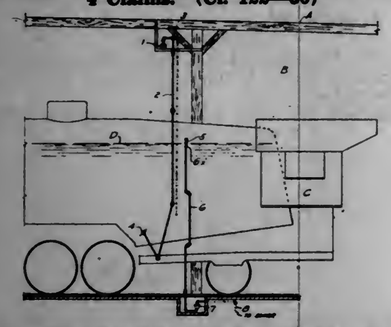
1. In a floating roof construction for tanks, a roof member, a shoe for sliding contact with the tank wall, means securing said shoe to said roof member, and a flexible sealing member connected to and between said shoe and roof member, said sealing member normally having an inner portion looped over the roof, the portion of said sealing member between said looped portion and shoe being normally inclined upwardly and outwardly to said shoe.

1,921,878

LOCOMOTIVE TERMINAL

John E. Hawe, St. Paul, Minn., assignor to Railway Engineering Equipment Company, Chicago, Ill., a Corporation of Illinois

Application March 6, 1931. Serial No. 520,544
4 Claims. (Cl. 122—36)



1. The improvement in the method of maintaining a constant water level in a locomotive boiler retained in a steamed condition without the use of fire on the locomotive, which consists in supplying steam to the locomotive boiler below the water level therein, drawing off water from the surface of the body of water within the boiler whenever this tends to exceed the desired level, and without escape of steam from above the water level; the water drawn off from the boiler being caused to flow, under pressure of said boiler, as filling water into another locomotive boiler.

2. In locomotive terminal apparatus, a steam supply main, a locomotive boiler, pipe connections from said supply main to said locomotive boiler below the water level of said boiler, a valved outlet from said boiler in water level regulating relation thereto, a steam-arresting trap, and a pipe connection from said valved outlet to said trap.

1,921,879

PROCESS FOR PRODUCING DICHLOROETHYLENE

Willy O. Herrmann and Erich Baum, Munich, Germany, assignors to Consortium für Elektrochemische Industrie, G. m. b. H., Munich, Germany, a Corporation of Germany

No Drawing. Application April 8, 1930, Serial No. 442,681, and in Germany April 20, 1929
8 Claims. (Cl. 260—165)

1. Process for producing dischloroethylene comprising leading the vapour of 1: 1: 2 trichloroethane over a heated heavy metal non-alkaline reacting compound at temperatures between 300° C. and 500° C.

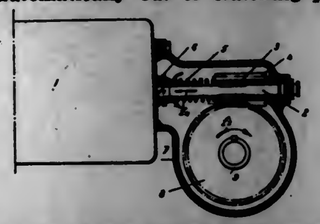
1,921,880

STARTING APPARATUS FOR ROTARY ENGINES

Stanislas Herts and Maurice Pierre Berger, Paris, France

Application October 16, 1931, Serial No. 569,228, and in France October 23, 1930
13 Claims. (Cl. 74—7)

1. A starting device comprising in combination, a gear wheel, a second gear wheel, said gear wheels having helical teeth constantly in mesh, the first said gear wheel driven by the starting motor being adapted to move axially, a damping device opposing axial movement of said first gear, a clutch member, the second said gear wheel being connected operatively with said member, a second clutch member connected operatively to the engine to be started, said clutch members adapted to act in one direction only, and to spring automatically out of clutching position



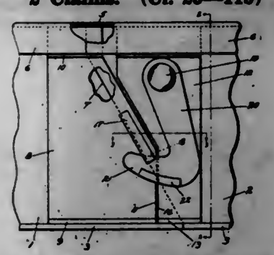
upon the engine being started, and a spring actuated ball provided for preventing any undesired movement of said second gear wheel when the starting motor is out of use.

1,921,881

COUPLING DEVICE FOR ROAD FORMS

Harry E. Holford, Binghamton, N. Y., assignor to Binghamton Foundry & Machine Co. Inc., Binghamton, N. Y., a Corporation of New York

Application May 25, 1931. Serial No. 539,862
2 Claims. (Cl. 25—118)



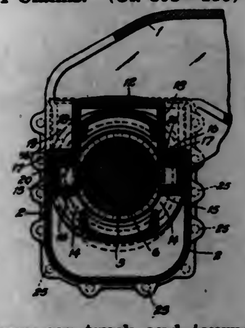
1. A road form comprising rail sections adapted for end to end coupling, the abutting ends of said sections being formed on a bias longitudinally of the sections, and means on the abutting ends of said sections for drawing said sections into alignment and for locking them in such position, said means comprising a lug on one of said ends and a hook on the other of said ends for locking engagement with said lug.

1,921,882

RAILWAY CAR TRUCK AND JOURNAL BOX

Oscar J. Horger, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio

Application January 21, 1931. Serial No. 510,155
4 Claims. (Cl. 308—180)



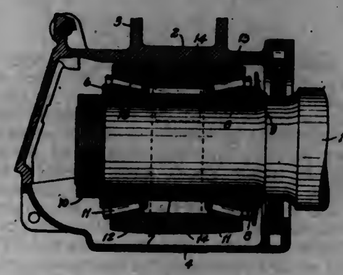
1. A railway car truck and journal box construction comprising a journal box provided with internal projections at each side, an axle extending into said journal box, a bearing carrier surrounding said axle, said carrier having continuous annular end portions and antifriction bearings, in said annular end portions, said carrier having recesses in its sides adapted to receive said journal box projections.

1,921,883

PLAIN-ROLLER BEARING JOURNAL BOX

Oscar J. Horger, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio

Application August 17, 1931. Serial No. 557,542
3 Claims. (Cl. 308—180)



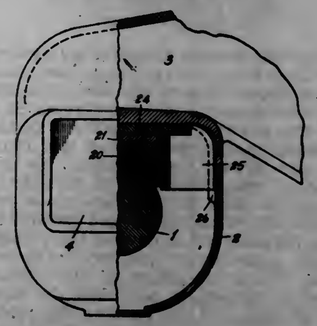
1. A roller bearing for railway car axle constructions comprising spaced rings or outer race members and an annular series of rollers for each ring and connecting bridges at the tops and bottoms of such outer race members and integral therewith, whereby said race members are adapted to receive projections of said journal boxes designed for cooperation with plain bearing members.

1,921,884

INTERCHANGEABLE JOURNAL BOX

Oscar J. Horger, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio

Application September 21, 1931
Serial No. 563,915
5 Claims. (Cl. 308—35)



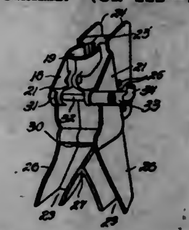
1. An interchangeable journal box construction comprising a journal box adapted to receive roller bearings and provided with vertically extending depressions in its sides and adapter members mounted in said depressions, said adapter members being shaped for engagement with plain bearings and being removable to permit said box to accommodate roller bearings.

1,921,885

FERTILIZER ATTACHMENT FOR PLANTERS

George M. Kriegbaum, Fred F. Brooks, and Clarence C. Haas, Richmond, Ind., assignors to International Harvester Company, a Corporation of New Jersey

Application June 8, 1931. Serial No. 542,732
6 Claims. (Cl. 111—73)



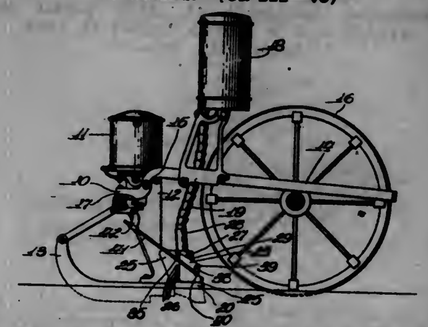
6. A fertilizer depositing attachment for planters comprising a casing adapted to be attached to a planter boot, said casing being formed with downwardly diverging furrow forming members having conduits therein and with an intermediate upwardly arched portion constituting a furrow closing means.

1,921,886

FERTILIZER DISCHARGING UNIT

George M. Kriegbaum and Clarence C. Haas, Richmond, Ind., assignors to International Harvester Company, a Corporation of New Jersey

Application August 27, 1932. Serial No. 630,638
7 Claims. (Cl. 111—73)



1. In a fertilizer depositing attachment for planters, a unit comprising hingedly connected upper and lower sections, the lower section comprising a ground engaging portion inclosing a discharge chute and having upwardly extended side walls, the upper section comprising a tubular conduit pivotally connected to the lower section, and releasable means for securing the tubular conduit in normal upright position between said side walls.

1,921,887

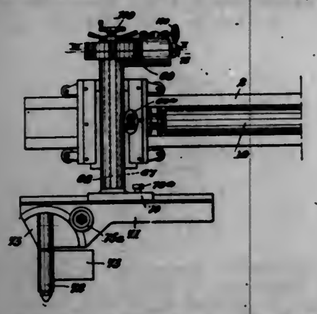
DEVICE FOR GUIDING IMPLEMENTS, PARTICULARLY THE BURNER OF CUTTING BURNER OR WELDING MACHINES

Adam Schmidt, Vienna, Austria, assignor to Alfred Vogel, Vienna, Austria

Application April 26, 1932, Serial No. 607,625
and in Austria August 22, 1930
15 Claims. (Cl. 266—23)

1. Device for guiding implements, particularly the burner of cutting burner—or welding ma-

chines, comprising in combination a carriage, a cylindric member rotatably and slidably mounted on said carriage, a driving wheel adjustable as to its vertical plane and rolling on said member, an implement holder arranged on said carriage and connected with said member, said



holder moving transverse to the direction of movement of the carriage during the movement of said member on the carriage, and means transmitting the rotary movement of said member to said carriage for shifting said holder in the direction of movement of the carriage.

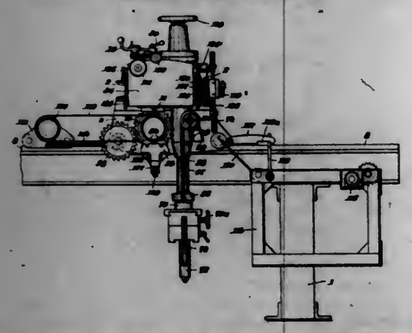
1,921,888

MACHINE FOR GUIDING CUTTING OR WELDING BURNERS, ELECTRODES, AND LIKE IMPLEMENTS

Adam Schmidt, Vienna, Austria, assignor to Alfred Vogel, Vienna, Austria

Application November 11, 1932, Serial No. 642,322, and in Austria August 22, 1930

7 Claims. (Cl. 266—23)



1. Device for guiding implements, particularly the burner of cutting burner or welding machines, comprising in combination a carriage and running wheels for said carriage, a cylindric member rotatably mounted on said carriage, a casing arranged on the carriage and slidable with respect to the latter parallel to said cylindric member, an implement guiding spindle arranged rotatable in said casing, a driving wheel mounted on the slidable casing and rolling on said cylindric member, means in said casing for driving said wheel and said spindle, means to adjust the driving wheel with respect to said cylindric member whereby, in one position thereof, the casing is moved relatively to the carriage and, in another position rotary movement is imparted to said cylindric member, and means connected with said cylindric member and said carriage and transmitting the rotation of said member to the running wheels of said carriage.

1,921,889

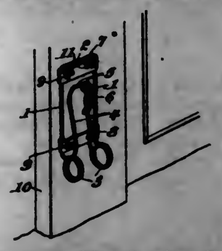
NEWSPAPER RECEIVER

Herbert E. Shelton, Hamburg, Iowa

Application April 4, 1932, Serial No. 603,154

Renewed January 24, 1933

2 Claims. (Cl. 24—66)



1. A newspaper holder having its body portion formed from a strand of rust-proof spring wire and including straight legs having the lower portions coiled upon themselves and the inner convolutions of the coils being arched and extended between the legs to provide jaws, said jaws having their upper ends rounded toward each other and merging into straight portions which are twisted, arched and terminate between but which do not extend through the arms that afford the jaws, spacer plates for the legs and said spacer plates affording means whereby the device may be attached to a support.

1,921,890

CASH DRAWER MANIFOLDING DEVICE

John Q. Sherman and Albert W. Metzner, Dayton, Ohio, assignors, by direct and mesne assignments, to The Standard Register Company

Original application January 20, 1923, Serial No. 614,038. Divided and this application May 13, 1929. Serial No. 362,538

3 Claims. (Cl. 235—22)



1. In a cash drawer manifolding device or the like, of the kind which comprises means for feeding a paper strip or the like, a cabinet and drawer, and a spring plunger serving as a latch to hold the drawer in the cabinet, operated by the feeding means for lifting the plunger to release the drawer, mechanism for releasing said drawer independently of said feeding means comprising a slide in the cabinet, a lock bolt adapted to move said slide, and permanent connections between the slide and the plunger, said slide and connections adapted to move freely with the lifting operation of the plunger and upon being thrust by said bolt to themselves lift the plunger, for the purpose described.

1,921,891

HORSESHOE

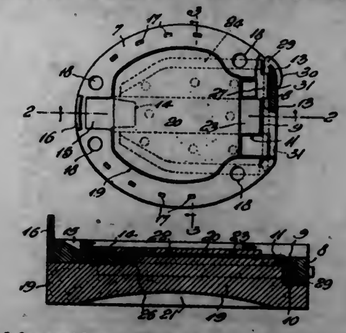
Daniel O. Snyder, Muncy, Pa.

Application July 21, 1932. Serial No. 623,885

Claims 13. (Cl. 168—14)

1. A horseshoe comprising a metal shoe, a pad having portions underlying and fitting within

said metal shoe, a longitudinal reinforcing plate imbedded in said pad, said plate being provided with a central longitudinal upwardly stamped ridge portion open at one end of the plate, means



carried by said metal shoe and received in said open end of said ridge portion to secure one end of the pad, and means engaging the other end of said plate for securing the other end of the pad.

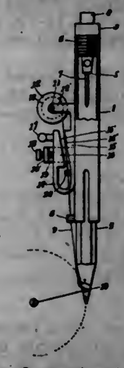
1,921,892

DRAWING INSTRUMENT AND ADJUNCTIVE PARTS THEREOF

John C. Sommer, St. Louis, Mo.

Application November 1, 1930. Serial No. 492,699

6 Claims. (Cl. 33—27)



1. In a scribing element guide clamping attachment for a drawing instrument, a stationary and a shiftable clamping part, said parts having opposed beveled surfaces normally spaced from each other, means for resiliently connecting said parts together at one end thereof, an angle shaped bracket opposing one side of said parts and the outer face of the shiftable part, and a clamping screw carried by said bracket and coacting with said shiftable part for clamping the guide between said parts.

1,921,893

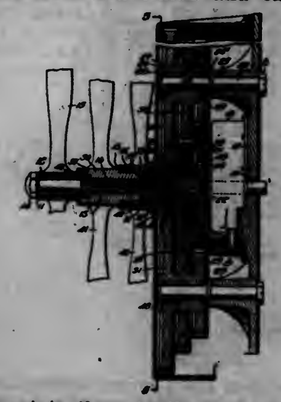
PROPELLING DEVICE

John G. Steele, Latrobe, Pa.

Application October 24, 1930. Serial No. 491,029

10 Claims. (Cl. 170—165)

1. Apparatus of the character described comprising a plurality of coaxial propellers operable in a fluid medium for causing movement thereof in one direction through said propellers, a drive shaft directly connected to one propeller, a hub connected to each of the other propellers and rotatable about the axis of said shaft, a gear connected to each hub, a manually controllable clutch connected to said shaft, and gearing connected between said clutch and each of said



gears to rotate them in the same direction as said shaft, said gearing including a pair of gears arranged on opposite sides of and meshing with each of said first named gears.

1,921,894

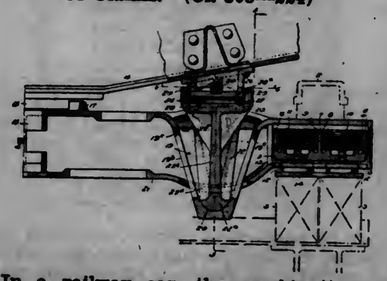
BOLSTER BEARING DEVICE

Thomas H. Symington, Baltimore, Md., assignor to T. H. Symington & Son, Inc., of Baltimore, Md., a Corporation of Maryland

Application March 22, 1927. Serial No. 177,285

Renewed February 12, 1931

31 Claims. (Cl. 308—224)



1. In a railway car, the combination of a truck bolster, a body bolster mounted for swivelling movement and lateral motion, and side bearing means carried by the truck bolster for supporting the body bolster, the side bearing means including rockers mounted for universal movement within the truck bolster, and movably mounted shoe members carried by the body bolster and coacting with the rockers.

1,921,895

FUEL MIXING APPARATUS

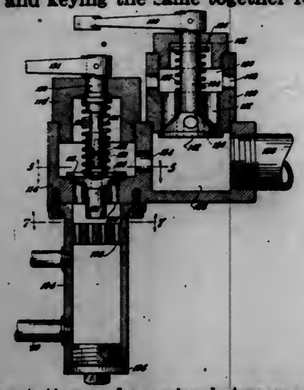
Peter Taurisano, Springfield, Mass.

Application July 15, 1931. Serial No. 550,823

4 Claims. (Cl. 261—93)

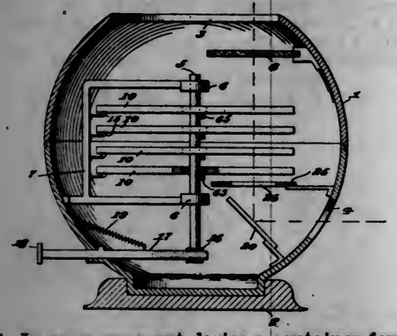
1. An apparatus comprising in combination, a piston and cylinder, the latter having fuel and air inlets and an outlet associated therewith, a mixing unit connected to said outlet and a valve block connected to said unit, the said unit including a chamber having a perforated wall therein, the said valve block including a perforated seat and a perforated valve movable towards and away from said seat, a rotatable mem-

ber, connections between said member and valve to permit relative reciprocating movements thereof and keying the same together for simul-



taneous rotation and a spring between said member and valve to yieldingly urge the valve against its seat.

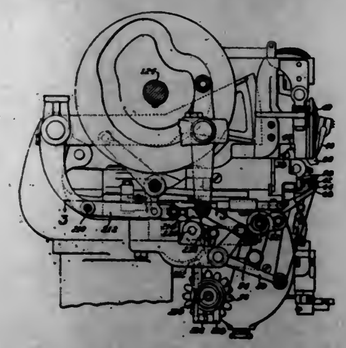
1,921,896
GAZING GLOBE
Albert G. Thomas, Lynchburg, Va.
Application February 25, 1932. Serial No. 595,141
16 Claims. (Cl. 40—77)



1. In an amusement device a container formed of opaque material having a sight opening therein, a plurality of plates of translucent material rotatably mounted within the container, each bearing a representation of a portion of a pictorial figure, the representation on the several plates being such that when in register they will together form a complete pictorial figure, a ground glass screen between the plates and the sight opening in position to be visible through the sight opening, means for directing a beam of light through the plates toward the sight opening to project pictorial representations carried by the plates onto the screen, and means for imparting rotation to the plates.

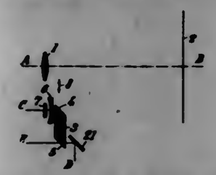
1,921,897
SHOE SEWING MACHINE
Laurence E. Topham, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Original application March 27, 1928, Serial No. 265,169. Divided and this application July 2, 1929. Serial No. 375,444
19 Claims. (Cl. 112—38)

1. A lockstitch sewing machine having, in combination, stitch forming devices including a hook needle, an awl, a shuttle and stitch setting takeup, means for causing the awl to enter the work after the needle withdraws with its loop of thread from the work and before the stitch



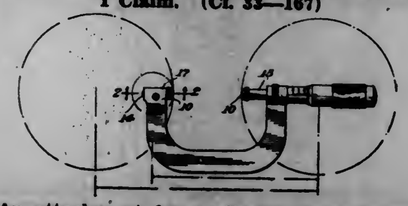
is set, and mechanism acting when thrown into operation to bring the machine to rest with the last stitch completed, and at a point at which the awl in a forward cycle is about to enter the work.

1,921,898
FOCUSING DEVICE FOR PHOTOGRAPHIC CAMERAS
Hans Ferdinand Tönnies, Altona-Gross-Flottbek, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application June 18, 1928, Serial No. 286,297, and in Germany June 24, 1927
9 Claims. (Cl. 95—44)



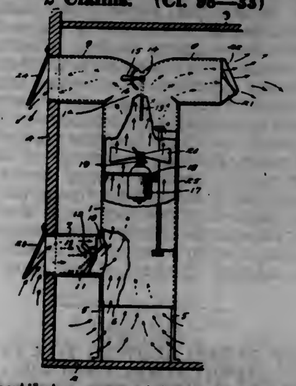
1. The combination, in a focusing device for a camera having an adjustable lens, of a pair of reflecting devices inclined to the optical axis of said camera lens, both having a fixed and parallel inclination and forming the optical base of the focusing device, this optical base being positioned perpendicularly to the optical axis of said camera lens, two focusing lenses arranged in front of one of said inclined reflecting devices with their optical axis perpendicular to said optical base of the focusing device, one of the focusing lenses being in a fixed position, the other being displaceable perpendicularly to its optical axis, means located behind the other of said inclined reflecting devices which permit viewing the object to be photographed in two partial pictures, one partial picture of said object being directly produced in said viewing means and the other partial picture being produced in said viewing means through said optical base and said focusing lenses, and means for connecting said displaceable focusing lens with the camera lens in a fixed relationship, so that, when altering the position of the said displaceable focusing lens in such a manner that the said two partial pictures coincide, the camera is in focus.

1,921,899
MICROMETER CALIPER ATTACHMENT
Carl H. Webbeking, Waterloo, Iowa
Application January 15, 1932. Serial No. 586,816
1 Claim. (Cl. 33—167)



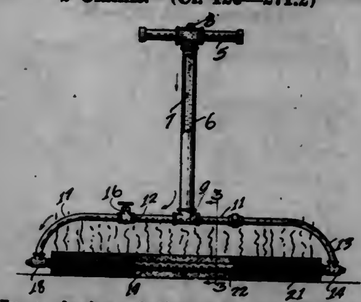
An attachment for application to a micrometer caliper where the spindle and anvil are peripherally grooved adjacent their work engaging faces, the same comprising a socketed member for seating on the anvil or spindle, and a spring loop carried by said member and engageable in the groove of that element of the micrometer to which it is attached, said socketed member being formed with a peripheral groove on the exterior surface of its wall and the center line of said groove lying in a plane parallel with the bottom wall of the socket but separated from the latter a less distance than the planes of the center lines of the grooves on the spindle and anvil are separated from their respective work engaging faces, the socketed member having its groove cut through the socket wall on diametrically opposite sides and the spring loop being seated in said groove and having spaced portions invading the socket at the points where the wall of the latter is cut through, so that said portions may engage in the groove in the spindle or anvil to one side of the center of the same and thus draw the socketed member down tight against the work engaging face thereof.

1,921,900
ONE-UNIT VENTILATING SYSTEM
Fordham F. Wood, Sayre, Pa.
Application April 21, 1931. Serial No. 531,772
2 Claims. (Cl. 98—33)



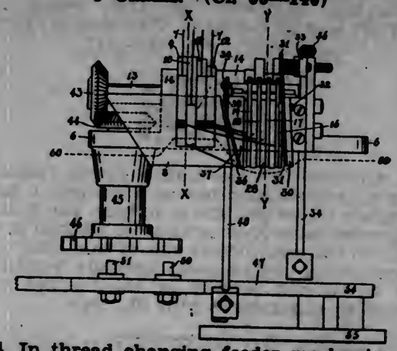
1. A ventilator comprising a hollow body provided at its lower end with a heated air intake, a fresh air intake flue communicating with the body near the lower end of the latter, a fresh and heated air discharge flue communicating with the upper end of the body and provided at the lower side of its discharge end with an upwardly deflected lip, blades extending across the discharge end of said discharge flue and in angular relation, a second air discharge flue communicating with the upper end of the body, the discharge flues being disposed diametrically in opposed relation, and a damper positioned between the intake ends of the discharge flues and having a portion depending within the body and adjustable to regulate the amount of air flowing through the respective flues.

1,921,901
INSECT DESTROYING DEVICE
Andrew X. Anderson, San Francisco, Calif.
Application April 4, 1932. Serial No. 603,180
2 Claims. (Cl. 126—271.2)



1. In a device of the character described, a handle, a tubular liquid fuel reservoir connected to said handle, pipes extending from said reservoir in opposite directions, the free ends of said pipes curved toward each other, and a roller interposed between the free ends of said pipes, said roller carrying thereon a cage of absorbent material, and means for controlling the flow of the fuel from said reservoir to said absorbent material.

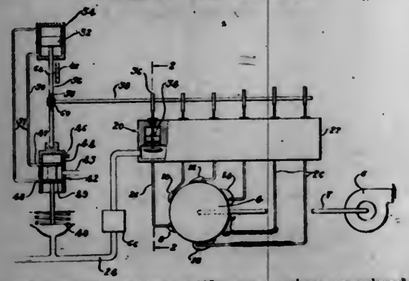
1,921,902
THREAD CHANGING FEEDER MECHANISM OF CIRCULAR KNITTING MACHINES
John Henry Glenn Bayles, Nottingham, England
Application August 25, 1931, Serial No. 559,270, and in Great Britain August 28, 1930
5 Claims. (Cl. 66—140)



4. In thread changing feeder mechanism for circular knitting machines including needles, the combination of a plurality of thread guides each movable between an idle position in which its thread is away from the needles and a position for presenting its thread opposite the machine needles, a corresponding number of thread trappers each for operation in conjunction with the thread of one of said thread guides, means for actuating said thread guides, a thread controlling finger located between the thread guides and thread trappers, means for actuating said finger

to move a thread presented by one of said thread guides across the path of the needles, and means for actuating the trappers whereby said thread is held by the corresponding trapper until the thread controlling finger has delivered the thread to the needles.

1,921,903
ELASTIC FLUID TURBINE
Oliver D. H. Bentley, Norfolk, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Mass., a Corporation of Massachusetts
Application August 13, 1930. Serial No. 475,016
3 Claims. (Cl. 253—56)



1. The combination with apparatus required to be driven at variable speed and having a characteristic such that the power varies substantially as the cube of the speed, of an elastic fluid turbine having a plurality of nozzle sets of graded areas, and means for successively placing in service additional nozzle sets to increase the speed, the effective area of each nozzle set being such that the total effective area of the nozzle sets in service for one speed is to the total effective area of the nozzle sets in service for another speed as the ratio of the cubes of the numbers of nozzle sets in service for the respective speeds.

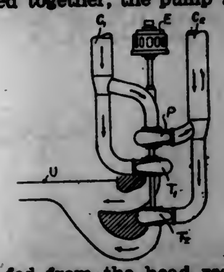
1,921,904
DECORTICATING DEVICE FOR TIMBER
Albert Bezner, Ravensburg, Germany
Application November 22, 1930, Serial No. 497,549, and in Germany November 23, 1929
5 Claims. (Cl. 144—221)



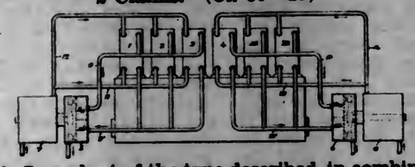
1. A device for decorticating timber comprising a cylindrical body having a continuous helical recess on its peripheral surface, one wall of said recess being cross sectionally inclined in relation to the longitudinal axis of said body, and a continuous cutting band helically wound in said recess and secured to the inclined wall thereof by engagement with the body.

1,921,905
HYDROELECTRIC INSTALLATION
Robert Blom, Paris, France
Application July 28, 1931, Serial No. 553,620, and in Germany July 28, 1930
1 Claim. (Cl. 290—4)

An hydro-electric installation, comprising a head reservoir, a storage reservoir, an electric machine, a pump feeding the storage reservoir, a first turbine adapted to actuate the electric machine and the pump, and a second turbine for actuating the electric machine, said pump, turbines and electric machines being mechanically coupled together, the pump and first turbine being fed from the head reservoir at the same pressure, and the second turbine fed from the storage reservoir.



1,921,906
EXHAUST TURBO-CHARGED, DOUBLE-ACTING INTERNAL COMBUSTION ENGINE
Alfred Buchi, Winterthur, Switzerland
Application October 21, 1929, Serial No. 401,235, and in Switzerland October 26, 1928
2 Claims. (Cl. 60—13)



1. In a plant of the type described, in combination a double-acting multicylinder internal combustion engine adapted to utilize a precompressed charge, said engine having outer and inner combustion chambers, pistons and piston rods, the piston rods passing through said inner combustion chambers, an exhaust turbine for a plurality of combustion chambers, and connected thereto, separate jet chambers for a plurality of combustion chambers, means to conduct exhaust gases from a plurality of inner and outer combustion chambers to the said turbine jet chambers, a charge compressor mechanically connected with said turbine to be driven thereby, means to conduct the precompressed charge from the precompressor to the cylinders to scavenge and charge said cylinders, whereby a greater volume of exhaust gases is supplied the turbine from the outer cylinder sides than from the inner cylinder sides, a higher mean exhaust gas pressure obtains in each turbine jet chamber during the exhaust of the outer cylinder sides, than during the exhaust from the inner cylinder sides and the exhaust pressure of the inner cylinder sides remains below the pre-compression pressure for a longer period than the exhaust pressure of the outer cylinder sides.

1,921,907
EXHAUST TURBO BLOWER FOR INTERNAL COMBUSTION ENGINES
Alfred Buchi, Winterthur, Switzerland
Application February 2, 1932, Serial No. 590,482, and in Switzerland February 5, 1931
3 Claims. (Cl. 60—13)

1. An exhaust turbo aggregate for internal combustion engines, comprising in combination an exhaust turbine, an impeller therein, a blower, blower wheels therein, means to connect said turbine to said blower, said means including a common shaft, a housing for said turbine, a housing for said blower, said housings completely enclosing the turbine and blower, an intermediate piece between said two housings, a bearing, said bearing being adapted to be loaded in every direction, radial inlet connections at said turbine housing,



radial outlet connections at the blower housing, and means to connect said exhaust turbo aggregate to an internal combustion engine at any desired angle of 0° to 360° between a vertical and the axis of the exhaust turbo aggregate.

1,921,908
KNITTED HOSIERY
Dana M. Carmer, Philadelphia, Pa.
Application August 2, 1930. Serial No. 472,534
1 Claim. (Cl. 66—183)



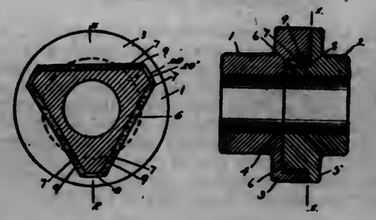
A full fashioned knitted stocking in which the fabric for parts of the length thereof is narrowed along the rear selvage edges to constitute marginal fashioned areas of great strength and neat appearance, such fashioned areas including designated narrowing courses in which groups of loops adjacent each of the rear selvage edges are offset inwardly without material strain thereon to the extent of only a single loop so that only the innermost loop in each of the offset groups overlaps another loop therewith to constitute a fashioning mark of minimum size and of strength commensurate with the other portions of the stocking fabric.

1,921,909
RADIATOR CAP
Moses E. Cheney, Toledo, Ohio, assignor to Moto Meter Gauge & Equipment Corporation, Toledo, Ohio, a Corporation of Delaware
Application January 16, 1931. Serial No. 509,244
5 Claims. (Cl. 220—40)



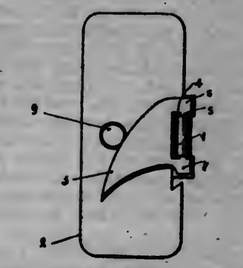
1. A radiator cap, provided with a movable cup-piece having radial fingers in combination with a flanged hollow thimble and securing means having a head in the hollow of said thimble and securing it to the underside of the cap and a helical spring supporting the cup-piece on the flanged thimble.

1,921,910
FLEXIBLE COUPLING
Charles Haskell Clark, New York, N. Y.
Application July 18, 1928. Serial No. 293,724
2 Claims. (Cl. 64—96)



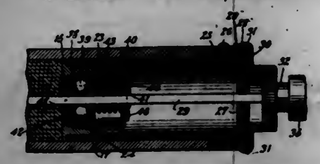
1. A coupling having male and female hub members adapted to be mounted upon shafts to be coupled, the female member having a flange or head peripherally circular and having an axially extending recess triangular in transverse section and having axially extending walls, the male member having a flange of the same diameter as that of the flange or head of the female hub member and a portion extending axially from the flange of the male hub member corresponding substantially in cross-sectional size and shape to the said recess, having flat axial walls, projecting into and snugly fitting said recess for extended face to face driving contact of its walls with those of the recess, and cushioning means interposed between the opposed faces of the overlapping portions of said hubs in assembled relation, the said flanges promoting alignment and assisting in the detecting of misalignment.

1,921,911
CAN OPENER
Etienne Marcel Darqué, Clichy, France
Application July 7, 1932, Serial No. 621,281, and in France July 13, 1931
1 Claim. (Cl. 30—3)



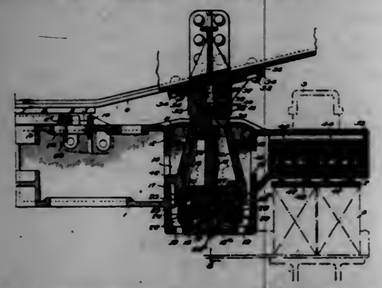
A knife for opening metallic food containers comprising a substantially flat handle, a blade pivotally attached to one edge of the handle and adapted to lie flat against the handle when out of use and to stand at about a right angle thereto for use, said handle being provided with a spring riveted to one side thereof and formed with oblique and beak portions which bear against the blade in both its open and closed position.

1,921,912
RESERVOIR APPLICATOR
Joseph De Philippe, New York, N. Y.
Application March 7, 1932. Serial No. 597,386
5 Claims. (Cl. 221—78)



1. In a device of the character described, a tubular reservoir body having an outlet at its forward end, a plunger for expressing the contents through the outlet, said plunger having an axial opening and a plug normally closing the same and removable therefrom to permit filling of the body through said opening when the plunger is retracted to the rear end of the body and reciprocating means extending through the plug for feeding the plunger forwardly of the body.

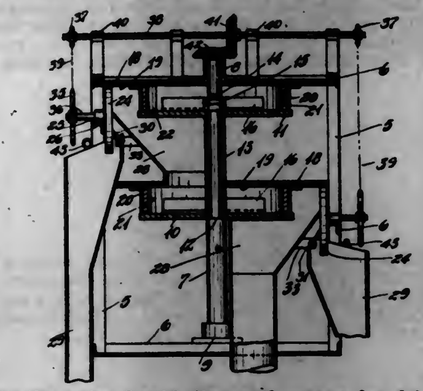
1,921,913
TRUCK BOLSTER AND SIDE BEARING STRUCTURE WITH LATERAL MOTION MEANS
Percy R. Drenning, Baltimore, Md., assignor to T. H. Symington & Son, Inc., Baltimore, Md., a Corporation of Maryland
Application March 22, 1927. Serial No. 177,340
35 Claims. (Cl. 308—224)



1. In combination, a body bolster having load sustaining depending side bearing elements and a center guide, a truck bolster having a guide pivotally receiving the center guide of the body bolster without weight and permitting movement of the body bolster laterally with respect to the truck, and load sustaining side bearing assemblies carried by the end portions of the truck bolster and engaging said depending side bearing elements of the body bolster, the side bearing assemblies including superposed elements certain of which are rockable only laterally of the truck bolster and others of which are rockable only longitudinally of the truck bolster whereby the upper ends of the assemblies may have universal movement.

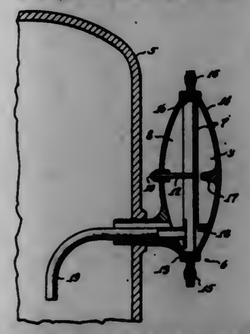
1,921,914
DISINTEGRATING MACHINE
Martin W. Edman, Oxford, Mich.
Application August 7, 1931. Serial No. 558,230
14 Claims. (Cl. 83—46)

1. A distintegrating machine comprising a frame, a drive shaft, a disc mounted thereon and revolved thereby, a stationary rim for said disc and provided with a discharge opening, a revoluble strike plate opposing said opening in spaced relation and disposed on an axis at right angles



to the axis of said disc, and means for driving said shaft and plate.

1,921,915
VACUUM VALVE
Ralph R. Fleming, Paterson, N. J.
Application October 28, 1931. Serial No. 571,666
1 Claim. (Cl. 236—64)
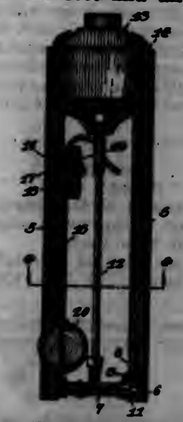


A vacuum valve comprising a casing composed of concavo-convex peripherally flanged elements and fasteners passing through said flanges and securing said elements together, a diaphragm disposed in said casing adjacent the juncture line of said elements and seated in one of the latter to divide the casing into two chambers, a gasket disposed in the other element at the periphery thereof and bearing against said diaphragm, one of said elements having a centrally disposed vent, an inwardly opening valve closing said vent and connected centrally to said diaphragm, the vent carrying element having a steam inlet, and a vaporizable material disposed in the chamber defined by the diaphragm and the other element and bulging the diaphragm when in a vapor state to effect vent closing movement of said valve.

1,921,916
PORTABLE PUMP
Archibald T. Flower, Jenkintown, Pa.
Application April 8, 1933. Serial No. 665,175
2 Claims. (Cl. 103—87)

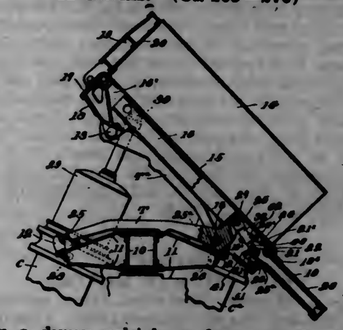
1. A portable pumping unit comprising a frame consisting of a pair of spaced vertical angle irons disposed in parallel relation, said irons having their lower ends bent at right angles to provide supporting feet, a pump mounted on said

frame between the feet and an electric motor



mounted between the vertical irons of said frame and operatively connected to said pump.

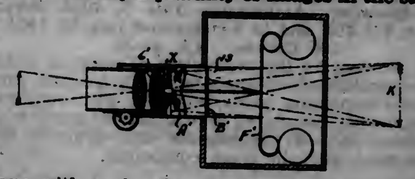
1,921,917
YIELDING DOOR MECHANISM
Henry Fort Flowers, Findlay, Ohio
Application November 1, 1929. Serial No. 404,008
11 Claims. (Cl. 105—276)



1. In a dump vehicle, a frame, a dump body mounted on the frame to be tiltable for dumping to the side, a side door pivoted to said body and adapted to open during the tilting of the body whereby the load may be discharged, and a door controlling device operated by the relative movement of the body and the frame during the return of the body to normal transport position whereby to positively move the door to closed position, said device including a sacrifice member adapted to yield when the door is blocked, and also including means to establish a positive connection between said frame and door to positively open said door after a predetermined relative movement of said body and frame.

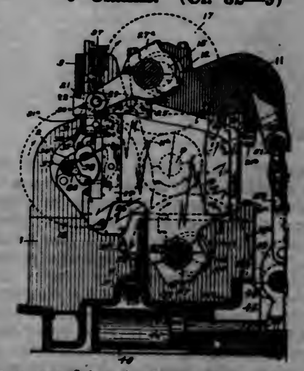
1,921,918
COLOR PHOTOGRAPHIC SYSTEM
Ellis Donald Goodwin, Sioux City, Iowa
Application July 15, 1929. Serial No. 378,407
1 Claim. (Cl. 88—1)

A photographic system comprising a device including a casing, a barrel with an iris diaphragm, a second barrel adjustably connected with the first barrel, an objective lens in the second barrel, a combination lens in the first barrel formed with positive lens segments having their optical centers lying considerably outside the optical center of the iris diaphragm, whereby the extreme edges of the lens segments act as curved prisms diverting the image formed by the objective lens into multiple images in a single plane, a combination filter associated with the combination lens and composed of a plurality of filters of different colors, each filter being associated with an optical center, whereby a plurality of images in the same



plane with each other of the component colors contained within the object being photographed will be produced on the sensitized medium in black and white, and an opaque member consisting of two planes arranged at right angles to each other located between the sensitized medium and the combination lens.

1,921,919
ORBITAL LATHE
William F. Groene, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a Corporation of Delaware
Application November 18, 1929
Serial No. 407,814
9 Claims. (Cl. 82—9)



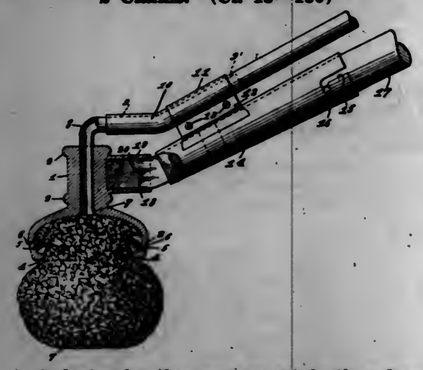
1. In a machine tool requiring an orbital tool movement, a work holder, a series of tool holders, a masters having a series of throws of the orbital movement required, means for supporting the tool holders so as to move with the throws of said masters, and means for moving one first master to and from the work, thus accomplishing a feed for the tools on the holders, the last named means comprising a frame in which movable master is supported and driving means for the movable master centered at the axis of movement of the frame, said tool holders being pivotally engaged with cranks on the movable master.

4. In an orbital lathe, means for supporting and rotating a crank shaft of which the pins are to be operated upon, a movable frame, eccentric means rotating in the frame in synchronism with the crank shaft rotating means, tool carrying frames mounted on said eccentric means and moved thereby, said tool carrying frames being spaced apart from each other, and spacing means mounted in the lathe and lying between the spaced carrier members and in bearing engagement therewith and forming a solid metallic mass across the lathe.

1,921,920
PROCESS FOR OBTAINING RESERVES UNDER AZO-DYESTUFFS
Robert Haller, Riehen, near Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application July 7, 1932, Serial No. 621,310, and in Switzerland July 23, 1931
8 Claims. (Cl. 8—5)

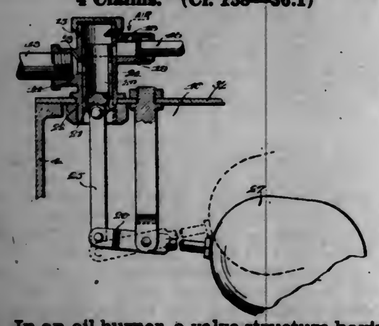
1. Process for the production of reserves under azo-dyestuffs which are obtained by treating with diazo-compounds goods prepared with coupling components, consisting in printing the goods with a metal salt of xanthogenic acid prior to the treatment with the diazo-compound.

1,921,921
SPONGE WASHER
Walter E. Harvie, Portland, Maine
Application May 31, 1932. Serial No. 614,561
2 Claims. (Cl. 15—130)



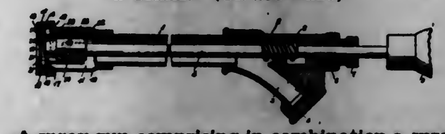
1. A device for the purpose set forth, a handle having a cup-like hollow head whose open end is formed with an inwardly directed lip, said lip being integrally formed with angularly disposed prongs directed toward the top of the head, the inner sides of the head being integrally formed with prongs directed toward the center thereof and said prongs affording impinging elements for a sponge which is inserted in the head and cemented thereto, the handle having outer peripheral ribs and having a central opening, and a fluid conducting tube received in said opening.

1,921,922
OIL BURNER
Frank E. Herr, Lancaster, Pa.
Application August 9, 1928. Serial No. 298,568
4 Claims. (Cl. 158—36.1)



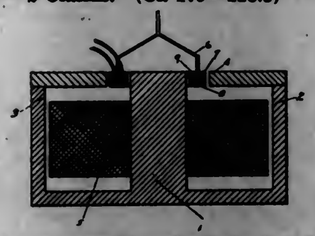
1. In an oil burner, a valve structure having air and oil openings in communication with air and oil sources, a sleeve in said structure having an oil port, a tank with which the valve has connection, a pump also in connection with the tank to draw on its fluid contents, and a float resting on the oil and connected with the sleeve for sliding the sleeve either for the admission of oil or air as the oil level fluctuates within determined limits.

1,921,923
SPRAY GUN
John C. Hull, Gasport, N. Y., assignor to "Friend" Manufacturing Company, Gasport, N. Y., a Corporation of New York
Application July 15, 1930. Serial No. 468,189
1 Claim. (Cl. 299—116)



A spray gun comprising in combination a spray head, a flanged nozzle cap secured to the head, a centrally apertured disc within the cap, a whirl plate fixed in the head in spaced relationship with the disc and having spaced tangential openings in the periphery thereof, a central circular opening in said plate in alignment with and of larger diameter than the aperture of said disc, a hollow cylindrical sleeve rigid with and extending from said plate, between the circular and tangential openings thereof backwardly into the spray head and spaced from the walls of the latter, a control valve slidably disposed in said sleeve comprising an enlarged body portion having spaced guiding contact with the sleeve and a cylindrical plug adapted to fit said circular opening and of sufficient length to reach from said opening to said disc, means for moving said valve lengthwise of the sleeve, and means for supplying liquid to said head.

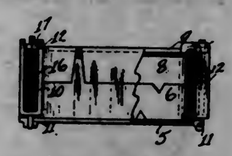
1,921,924
LOUD SPEAKER MOTOR
Theodore A. Hunter, Cincinnati, Ohio, assignor to The Crosley Radio Corporation, Cincinnati, Ohio, a Corporation of Ohio
Application February 13, 1930. Serial No. 428,224
2 Claims. (Cl. 179—115.5)



1. In a moving coil type loud speaker, the combination of a moving voice coil and a moving body of magnetic material, such as iron, within which the voice coil is mounted, said body arranged to surround the coil on all sides.

1,921,925
DENTAL FLASK
Orlando J. Johnson, Klamath Falls, Oreg.
Application June 28, 1932. Serial No. 619,784
2 Claims. (Cl. 18—33)

1. In a dental flask, a bottom plate having a plurality of upstanding lugs formed thereon, a ring positioned on said plate and registering with said lugs, a cover portion mounted on said ring, said cover portion having a rim extending upwardly therefrom, a plurality of bolts pivotally attached to said bottom plate, a U-shaped mem-



ber slidable on each of said bolts, a spring interposed between the legs of said U-shaped member and encircling the bolt thereof, the legs of said U-shaped members having hooked extremities adapted to engage said rim.

1,921,926
METHOD OF TREATING TEXTILES AND COMPOSITION USED IN THE METHOD
Hilton Ira Jones, Wilmette, Ill.
No Drawing. Application January 6, 1930
Serial No. 419,003
4 Claims. (Cl. 167—37)

1. The herein described composition of matter for treating fabrics which consists of a mixture of water soluble egg albumin substantially in the proportion of six pounds of egg albumin dissolved in one hundred and twenty-five gallons of water, and sixty-six pounds of rare earth acetate dissolved in two hundred and fifty gallons of water.

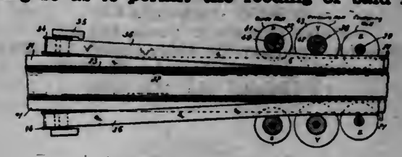
1,921,927
FIN TUBING
Russell C. Jones, Bronxville, and Robert Colston, New Rochelle, N. Y., assignors to The Griscom-Russell Company, New York, N. Y., a Corporation of Delaware
Application August 1, 1929. Serial No. 382,756
5 Claims. (Cl. 257—262)



1. A heat exchanger element comprising a tube having a plurality of parallel longitudinal grooves in the surface thereof, and metal ribbon disposed edgewise in said grooves and forming heat exchanging fins projecting from the surface of the tube, the metal of the tube adjacent the edgewise placed ribbon being displaced against the surface of the ribbon.

1,921,928
METHOD OF MAKING FINNED TUBING
Russell C. Jones, Bronxville, and Robert Colston, New Rochelle, N. Y., assignors to The Griscom-Russell Company, New York, N. Y., a Corporation of Delaware
Application January 5, 1931, Serial No. 506,612, and in Canada July 16, 1930
2 Claims. (Cl. 29—157.3)

1. The method of making finned tubing which comprises forming longitudinal grooves in the surface of the tubing, and affixing fins in a plurality of said grooves at a plurality of positions spaced from one another longitudinally of the tubing so as to permit the feeding of said fins



to the tubing without interference with one another.

1,921,929
CELLULOID COVERED METALLIC TUBE AND METHOD OF MAKING SAME
Herbert C. Lagerblade, Bristol, Conn., assignor to The Horton Manufacturing Company, Bristol, Conn., a Corporation of Connecticut
Application October 11, 1929. Serial No. 399,077
8 Claims. (Cl. 18—59)



1. The method of making celluloid covered metallic tubes which consists in shaping a sheet of celluloid around a metallic tube in the presence of heat, with the longitudinal edges of said celluloid sheet abutting one another, then cooling said celluloid, inserting a reinforcing strip between the celluloid tube and metallic tube, along the seam formed by said abutting edges, and cementing said strip and edges together.

1,921,930
GOLF CLUB SHAFT
Herbert C. Lagerblade, Bristol, Conn., assignor to The Horton Manufacturing Company, Bristol, Conn., a Corporation of Connecticut
Application September 1, 1931. Serial No. 560,629
3 Claims. (Cl. 273—80)



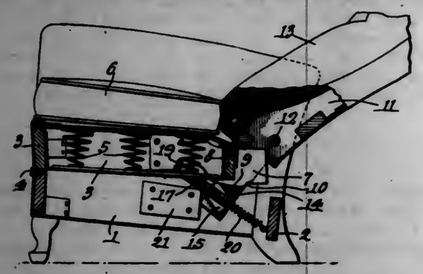
1. A substantially all-metallic golf club shaft, comprising a hollow tubular metallic section extending the major portion of the length of the shaft and adapted to be secured at one end in a golf club head, a wooden member rigidly secured in the other end of said section, and a hollow metallic handle section rigidly secured to said wooden member and overlapping the first mentioned section.

1,921,931
SCREW PROPELLER
Pierre Levasseur, Paris, France
Application January 20, 1931, Serial No. 509,954, and in France January 23, 1930
7 Claims. (Cl. 170—162)



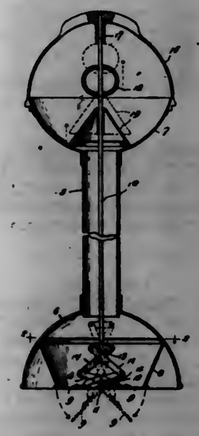
1. In a variable pitch propeller, a hub having bearing members, blades having bearing members mounted on said hub, a plurality of thin rings, said rings being formed of plastic or resilient material, said rings being inserted between the bearing members of the hub and the bearing members of the blades, said rings being separated by said bearing members.

1,921,932
CHAIR
Worth M. Lewallen, High Point, N. C.
Application April 28, 1930. Serial No. 448,080
1 Claim. (Cl. 155—116)



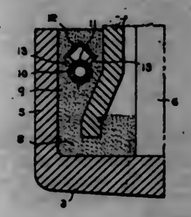
The combination with a chair frame, a seat frame hingedly connected thereto at its front end, stop blocks on the chair frame normally supporting the seat frame, and spaced arms extending rearwardly from the seat frame and having curved lower edges each providing an ogee cam terminating in a rounded shoulder, of a back frame suspended in the chair frame and mounted to swing about an axis extending transversely through the chair frame adjacent its rear end, arms depending from the back frame and crossing the arms on the seat frame, lifting blocks fixedly secured to the arms on the back frame and constituting supports for the arms on the seat frame, and a spring beneath the seat frame connecting the chair frame to the lower end of the back frame for holding the lifting blocks normally pressed rearwardly in engagement with the shoulders, said seat frame, when subjected to a load, constituting means for resisting the lifting of the shoulders and the release of the blocks when the upper portion of the back frame is thrust rearwardly against the action of the spring, said supporting blocks cooperating with the arms on the back to provide a stop to limit the backward swinging movement of the back, and said lifting blocks and the bottom of the back frame cooperating to grip the arms on the seat frame to supplement the stop action of the supporting blocks.

1,921,933
SMOKING STAND
Joseph L. Levenberg and Henry M. Seeberg, Los Angeles, Calif.
Application July 25, 1932. Serial No. 624,592
7 Claims. (Cl. 131—51)



1. A smoking stand comprising a hollow standard having a hollow base at the lower end thereof and an ash tray at the upper end thereof, the standard communicating with the base through the top of the latter and with the tray through the bottom of the same, a collection receptacle within the base having a bottom discharge opening, closure means for said discharge opening, an operating rod extending axially through the standard and operable from a point above the ash tray for opening said closure means, and a valve slidable on the operating rod and normally lowered by gravity to close communication between the ash tray and the standard.

1,921,934
ART OF ANNEALING
Lester L. Lewis, New Castle, Pa., assignor of two-thirds to Blair Strip Steel Company, New Castle, Pa., a Corporation of Pennsylvania
Original application December 2, 1929, Serial No. 411,179. Divided and this application August 30, 1930. Serial No. 479,051
10 Claims. (Cl. 148—1)



1. In the art of annealing metal work, heat treating the work in a container sealed against entrance of discoloring agents to the work, cooling the work in the container in air, and treating the seal during the cooling operation with a gaseous agent to preserve the container against entrance of discoloring agents.

1,921,935
PROCESS FOR THE CONVERSION OF TEXTILE VEGETABLE FIBERS INTO THREADS HAVING THE TEXTURE OF WOOL
Frederic Georges Maillard, Paris, France
No Drawing. Application May 23, 1929, Serial No. 365,566, and in France April 18, 1929. Renewed May 8, 1933
3 Claims. (Cl. 8—2)

1. An improved process for the conversion of vegetable fibers of the ligno-cellulose class, such as jute, hemp and the like, into a wool-substitute, which comprises submitting the fibers to a mechanical treatment in a greasy bath, then spinning them into thread and doubling, next treating said thread, for the purpose of separating the ligneous from the cellulose constituents, first in a bath of alkali metal carbonate and then with a mixture of sodium sulphoricinate and alkaline carbonate, next chemically converting the ligneous constituents by hydrolizing in a bath of caustic alkali and finally bleaching, finishing and rendering the threads impermeable.

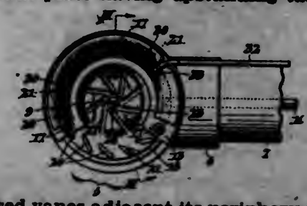
1,921,936
MASHER
Jean Mantelet, Bagnolet, France, assignor to Mantelet et Boucher (Societe en nom Collectif), Bagnolet, France
Application February 9, 1933, Serial No. 655,995, and in France February 16, 1932
8 Claims. (Cl. 146—175)



1. A masher of the type described including in combination, a container having the shape of a surface of revolution, a sieve fixed inside said container so as to leave a certain space between its central part and the lower part of the container, a bearing rigidly fixed to the central part of said sieve and extending downwardly therefrom, a spindle extending throughout said sieve and said bearing, a crank at the upper end of said spindle, a helical surface keyed on said spindle above said sieve, the lower radial edge of said surface being of a length equal to the radial section of the sieve, and conforming in shape to the radial section thereof; the upper radial edge of said surface being shorter than the radius of said container and being placed at a certain distance above said sieve, and the peripheral edge of said surface gradually connecting the outer end of said lower radial edge to the outer end of the upper radial edge, and means for applying the lower radial edge of said surface against said sieve.

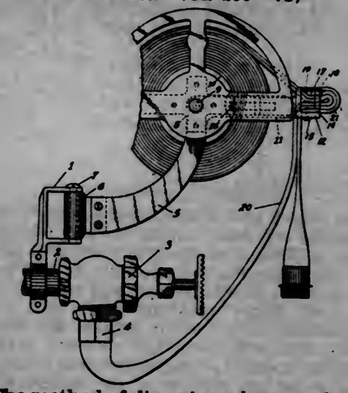
1,921,937
OIL BURNING APPARATUS
Albert E. Marshall, Baltimore, Md., assignor, by mesne assignments, to Reinhold D. Schoenwetter, Hagerstown, Md.
Original application April 23, 1928, Serial No. 272,077. Divided and this application February 21, 1929. Serial No. 341,679
11 Claims. (Cl. 158—1.5)

1. An oil burning apparatus for furnaces embodying an air blower, an air flow conduit leading from the blower into the furnace equipped at its inner end with a vertically discharging burner head, an oil spray nozzle in the burner head, said burner head having a shallow hollow circular body with a central discharge opening in its top surrounded by a down-turned lip, and a deflector within the burner head in the form of a flat circular plate having upstanding tangential-



ly-disposed vanes adjacent its periphery reaching to the top of the burner head to swirl the air into an annular space between the down-turned lip and said plate for discharge inwards through a restricted annular interval, defined by said lip, into an annular space around the oil spray nozzle exposed within an axial aperture of the deflector.

1,921,938
HOSE REEL
Charles Nuhring, Cincinnati, Ohio
Application March 8, 1929. Serial No. 345,452
10 Claims. (Cl. 299—78)

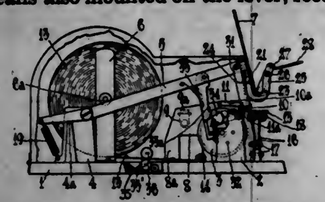


9. The method of disposing a hose ready for use which comprises connecting one end thereof to a controlled liquid source, flattening said hose and folding it upon itself close to a point midway between said end and its opposite end, rolling up the folded hose from its fold, thereby bringing two end portions of the hose together, making an additional fold, forming a loop, in said portions, and holding said loop with the one end portion inside thereof, for ready release by a pull on said opposite end of the hose.

1,921,939
MACHINE FOR FASTENING TOGETHER FOLDED SHEETS OF PAPER WITH ADHESIVE MATERIAL
Alexander Parker and Geoffrey Parsons, Auckland, New Zealand
Application August 21, 1932, Serial No. 631,240, and in New Zealand August 22, 1931
11 Claims. (Cl. 216—27)

1. A machine for serving and applying strips of gummed paper and the like comprising a base, supporting means on the base adapted to receive a roll of gummed paper, a vertical roller over which the paper is adapted to be passed, a damp-

ening wick on the base and positioned above the feed roller contacting with the gummed surface of the paper; a lever pivoted on the base, a paper cutting knife carried by the lever, packet gripping means also mounted on the lever, feed roller



actuating means operated from said lever, and a pair of spring pressed rollers between which a packet and a severed section of dampened gummed paper are adapted to pass so as to apply the severed paper to the packet.

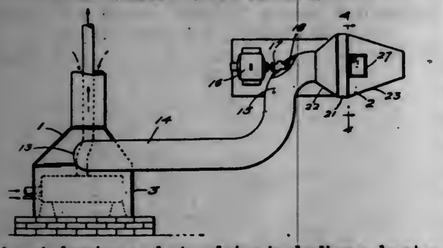
1,921,940

AIR HEATER AND CIRCULATOR FOR HAIR DRYING SYSTEMS

Eugene J. C. Perkins, Miami, Fla.

Application April 20, 1931. Serial No. 531,576

1 Claim. (Cl. 126—116)



An air heater and circulator including a heater body having a frusto-conical portion, an air intake flue at the top of the frusto-conical portion, and a discharge flue at the side of the frusto-conical portion, the frusto-conical portion of the heater body being unsymmetrical with respect to the axis of both the air intake flue and the discharge flue, whereby air entering into and discharging from the unsymmetrical interior of the frusto-conical portion of the heater creates a turbulence of the air therein, means within the heater for heating the air, said means including a hot plate, a draft flue in communication with the atmosphere and an exhaust flue passing to the atmosphere through the air intake flue, and an air circulator for drawing atmospheric air into, through and from the air heater and for propelling the heated air out of the air circulator.

1,921,941

ELECTRODEPOSITION OF PALLADIUM

Alan Richard Powell and Emyr Conwy Davies, London, England, assignors to Johnson Matthey & Company Limited, London, England

No Drawing. Application March 8, 1932, Serial No. 597,631, and in Great Britain March 12, 1931

13 Claims. (Cl. 204—1)

1. A process for the electrodeposition of palladium in the form of a bright adherent plate in which the electrolyte comprises a solution containing a tetramminepalladium salt the acid radicle of which is not reduced under the plating conditions and preferably a conducting salt and a small quantity of an alkali.

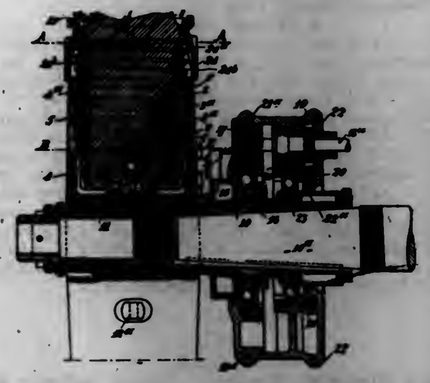
1,921,942

METALLIC PROPELLER

Paulin Jean Pierre Ratier, Montrouge, France

Application March 15, 1929, Serial No. 347,405, and in France October 31, 1928

7 Claims. (Cl. 170—163)



1. In a variable pitch propeller, a hub having internally threaded bores, blades having a screw-threaded root for fitting with play in the bores of the hub, the direction of the screw-thread and its inclination being so chosen as to give rise on the blades, under the action of the radial component of the centrifugal force, to a torque balancing the torsion torque due to the same centrifugal force, balls interposed in the clearance provided between the screw-thread of the blade roots and the inner screw-thread of the hub, and means for causing the blades to pivot on their axis during the rotation of the propeller.

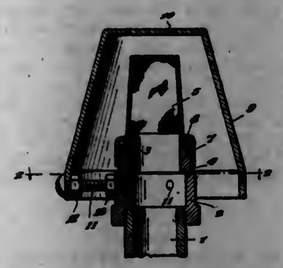
1,921,943

SCREENED VENT CAP

William H. Rice and Hancel M. Lyon, Atlanta, Ga.

Application January 6, 1932. Serial No. 585,134

6 Claims. (Cl. 220—44)



2. A ventilating device comprising a coupling adapted to be connected with the end of a vent pipe, an upwardly tapered perforated screen fitting entirely around and extending above and over the upper end of the coupling and forming a deflector, and a retainer mounted on the coupling and engaging the screen whereby to hold it firmly on the coupling.

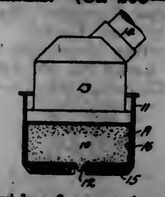
1,921,944

RENEWABLE WAX CARTRIDGE FOR WAX APPLICATORS

Frederick Riebel, Jr., Toledo, Ohio, assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio, a Corporation of Delaware

Application May 23, 1932. Serial No. 613,019

6 Claims. (Cl. 206—56)



1. A wax cartridge for use in connection with a waxing device of a type adapted to enclose the cartridge and to apply constricting pressure thereto for extruding the wax through a longitudinal wall of the cartridge comprising an elongated body of plastic wax and a container enclosing said body comprising a seamless tube the ends of which are sealed.

1,921,945

OYSTER CULTURE

Rollin W. Robertson, Baltimore, Md.

Application September 14, 1932 Serial No. 633,120

1 Claim. (Cl. 119—4)



An oyster cultch and spat collector consisting of one or more small units, each unit having length, width and height dimensions of not less than 1" and not more than 3", the said units consisting essentially of calcium oxide, silica, alumina and magnesium oxide, and the said units being porous and containing not less than 30% calcium oxide and not less than 15% silica for the purpose of developing oyster spat thereon.

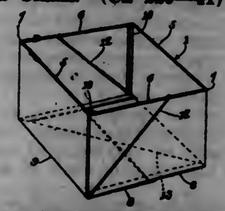
1,921,946

FOLDING BOX

Isaac M. Rudowitz, Brooklyn, N. Y.

Application April 12, 1932. Serial No. 604,828

1 Claim. (Cl. 229—41)



A folding open top box body consisting of a pair of oppositely disposed one-piece elements, each including a pair of side wall forming portions integrally hinged together, one of said wall forming portions of each element being provided with an inwardly extending upstanding flap at one end and the other wall forming portion of each element being provided with an inwardly extending flap at its bottom, each element including a section of the box bottom, said section extending inwardly from and integrally hinged with the bottom of a side wall forming portion of said element, each bottom section being of the same width as and of greater length than the height of that wall forming portion to which it is hinged, said bottom sections being secured together in overlapping relation to provide the bottom of the box body and to reinforce said bottom throughout the center of the latter, said bottom flanges being secured to the upper face of said bottom, the end flange of one element being secured to the inner face of the other element at one end of the latter, said bottom being formed with an integral hinge disposed diagonally thereof to provide for said bottom folding inwardly and said wall forming portions provided with the bottom flanges being formed with oppositely disposed diagonally extending integral hinges to provide for such portions being folded inwardly in opposite directions.

1,921,947

RESIST PASTE

Alwin Schneevoigt, Ludwigshafen-on-the-Rhine, and Hans Krzikalla, Mannheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application October 8, 1931, Serial No. 567,758, and in Germany October 29, 1930

12 Claims. (Cl. 8—6)

1. As a new composition, a resist paste comprising a thickener and an alkaline earth metal salt of a readily reducible aromatic nitro-sulphonic acid.

1,921,948

OPTICAL CEMENT

Samuel E. Sheppard, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York

No Drawing. Application January 2, 1929 Serial No. 329,951

1 Claim. (Cl. 87—17)

An optical cement including the higher polymers of a product of the simultaneous polymerization of vinyl acetate and vinyl chloride, and Canada balsam.

1,921,949

TREATMENT OF CELLULOSE ESTERS

Samuel E. Sheppard, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York

No Drawing. Application April 22, 1930 Serial No. 446,412

4 Claims. (Cl. 260—102)

1. A process for rendering cellulose esters free from the deleterious effects of the metallic impurities contained therein which comprises adding an alkaline cyanide thereto, said addition being made subsequent to the formation of the cellulose esters.

1,921,950

NONFOGGING PHOTOGRAPHIC PACKING MATERIALS

Samuel E. Sheppard, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York

No Drawing. Application October 29, 1931 Serial No. 572,035

11 Claims. (Cl. 95—5)

1. A package including photographically sensitive material and supporting or wrapping ma-

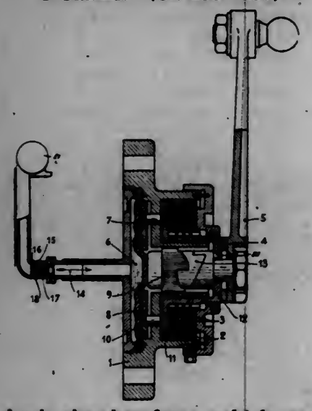
terial containing as an impurity a substance which gives off hydrogen peroxide, there being associated with such material a catalyst to inhibit the effect of said hydrogen peroxide and selected from the group consisting of lead oxide, cobaltic oxide, vanadium oxide, manganese dioxide, silver oxide, tungstic oxide, alkyl halides, thiourea and strong alkalies.

1,921,951

SHOCK ABSORBER

Lucien Simon and René Marcon, Paris, France; said Marcon assignor, by mesne assignments, to said Simon

Application July 18, 1932, Serial No. 623,263, and in France June 9, 1932
4 Claims. (Cl. 188—130)



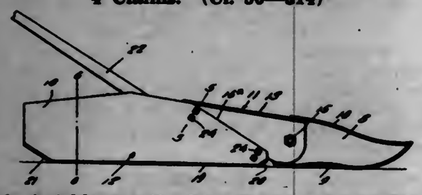
1. A shock absorber for a vehicle comprising in combination, a casing fixed to said vehicle, a rotary hub coaxially mounted in said casing, an arm rigidly fixed to said hub, two sets of alternate braking discs slidably keyed to the inner periphery of said casing and to the outer periphery of said hub respectively, a chamber means for feeding a fluid under pressure into said chamber, means sensitive to said fluid pressure adapted to press said braking discs against each other, and means operatively connected to said arm for varying the pressure in said chamber according to the angular position of said arm.

1,921,952

SICKLE BAR DIVIDER ATTACHMENT

Herman Stemman, Stevensville, Mont.

Application February 9, 1933. Serial No. 655,979
4 Claims. (Cl. 56—314)



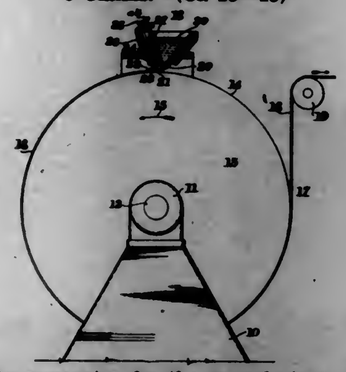
1. A sickle or cutter bar attachment comprising an attaching plate adapted to be connected with a drag shoe, said attaching plate being of general triangular configuration so that the lower edge portion thereof occupies a position diagonal to the ground when in place, a complemental divider board, the frontal and upper edge portion of said board being cut diagonally to substantially parallel the lower diagonal edge portion of said plate, and a hinge connection between the board and plate joining the diagonal edge portions of the board and plate in overlapping association when the board is in operative position.

1,921,953

APPARATUS FOR MAKING SHEETS OR FILMS

Levi T. Stephens, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York

Application November 29, 1930
Serial No. 499,042
6 Claims. (Cl. 18—15)



1. An apparatus for the manufacture of film, the combination with a continuous dope receiving surface adapted to receive continuous motion in a uniform direction, of a dope hopper having an extended flat surface substantially parallel to the receiving surface and spaced therefrom such a distance that dope must necessarily contact with said flat surface and said receiving surface, and a restricted passage in said hopper for supplying dope between and into contact with said flat surface and said receiving surface to form a capillary pool.

1,921,954

MOTION PICTURE AND SOUND RECORD FILM

Donald H. Stewart, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York

Application March 25, 1929. Serial No. 349,827
9 Claims. (Cl. 274—43)



1. In the art of reproduction of sound from photographic records, the method of reducing objectionable sound effects at the point of change-over from one accompaniment to another on the same continuous record which comprises applying to the sound record adjacent the point of change-over a layer which progressively increases the density of the record.

6. A film having thereon two consecutive areas containing photographic sound records, and a piece of material of varying light absorbing power overlying a portion of each of said sound records.

9. As an article of manufacture, a carrier, a plurality of relatively small pieces of material temporarily attached to the carrier, each of said pieces of material having varying light absorbing power and being adapted to be attached to a sound track film.

1,921,955

HYDRAULIC MECHANISM

Harry F. Vickers, Los Angeles, Calif.

Application June 8, 1929. Serial No. 369,454
6 Claims. (Cl. 60—52)



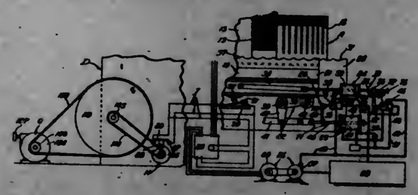
2. In combination, a cylinder, a piston operable in the cylinder, a fluid reservoir, a continuously operating pump receiving fluid from the reservoir and delivering it under pressure, a fluid connection between the pump and the two ends of the cylinder and between the two ends of the cylinder and the reservoir, a reversible valve in said connection whereby the pumped fluid may be delivered to either end of the cylinder and allowed to escape from the other end of the cylinder to the reservoir, by-passes at the ends of the cylinder allowing fluid to pass the piston at the ends of its stroke, and an auxiliary connection between the portion of said connection communicating with the reservoir and one end of the cylinder allowing fluid to enter said end of the cylinder at the same time that fluid is being delivered to said end of the cylinder by the pump.

1,921,956

CONTROL FOR HEAT-TREATING APPARATUS

Harry F. Vickers, Detroit, Mich.

Application October 5, 1931. Serial No. 566,976
11 Claims. (Cl. 263—6)



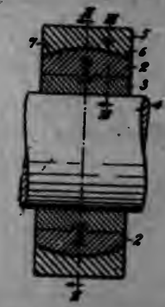
1. In combination, a furnace, an intermittent feed mechanism in the furnace, a second furnace, a feed mechanism in the second furnace, the intermittent feed mechanism delivering material to the feed mechanism of the second furnace, a control for the feed mechanism of the first-mentioned furnace operated by the feed mechanism of the second furnace, the control including a control circuit governing actuation of the feed mechanism of the first mentioned furnace and a timer in the circuit operated by the mechanism of the second furnace, and means associated with the control whereby the feed mechanism of the first mentioned furnace is stopped at predetermined intervals.

1,921,957

BEARING

August Gunnar Ferdinand Wallgren and Carl Gustaf Janson, Stockholm, Sweden, assignors to Aktiebolaget Nomy, Stockholm, Sweden, a Corporation of Sweden

Application October 18, 1932, Serial No. 638,366, and in Sweden November 25, 1930
5 Claims. (Cl. 308—73)



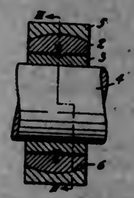
1. A radial bearing comprising an inner member, an outer member spaced radially from the inner member, a plurality of bearing blocks having operative positions between said members, said inner member and said blocks having adjacent cooperating irregular surfaces for causing rotation in one direction to tilt the blocks one way and rotation in the other direction to tilt the blocks the other way, and said outer member and said blocks having adjacent cooperating spherical bearing surfaces, the radii of the spheres of the sliding surfaces of the blocks being the same for the various blocks and being less than the radius of the sphere of the sliding surface of the outer member, the difference in radii being less than the minimum distance between the blocks and said outer member with the blocks evenly distributed peripherally and in contact with said block member and with the parts centered, and means for permitting and limiting shift of position between said blocks and said outer member.

1,921,958

BEARING

August Gunnar Ferdinand Wallgren and Carl Gustaf Janson, Stockholm, Sweden, assignors to Aktiebolaget Nomy, Stockholm, Sweden, a Corporation of Sweden

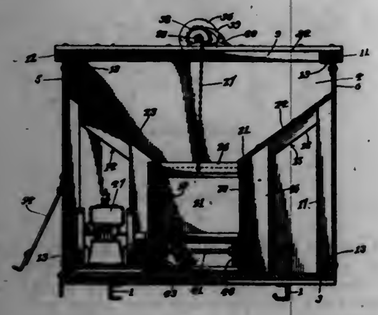
Application October 18, 1932, Serial 638,369, and in Sweden January 13, 1931
10 Claims. (Cl. 308—73)



1. A radial bearing comprising inner and outer members and a plurality of bearing blocks therebetween, said blocks and one of said members having cooperating irregular surfaces to cause the blocks to tilt to produce wedge-shaped oil spaces, said blocks and the other of said members having sliding surfaces, said sliding surfaces

having radii of curvature which are equal in an axial plane and unequal in a transverse plane, and means to permit and limit shift of position between said blocks and said one of said members.

1,921,959
MATERIAL TRANSPORTING AND HANDLING APPARATUS
Harry L. Warren, Kinmundy, Ill.
Application May 27, 1932. Serial No. 614,024
1 Claim. (Cl. 214—83)



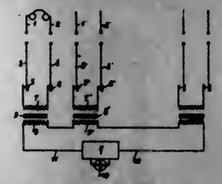
In a material transporting and handling apparatus adapted to be carried by a mobile structure and of that type including an open top and closed bottom container having one of its sides provided with an entrance opening therefor, the combination of means arranged within the upper portion of the container and providing in connection with the sides and ends of the latter an open bottom material holding hopper, means arranged within the lower portion of and spaced from the sides of the container and in connection with the bottom of the latter providing an open top conveyor compartment open to said hopper bottom, a flat support interposed between and coextensive with the length of the hopper and compartment and provided with a series of spaced openings aligning with the open top of the compartment, gates within and hinged to the support and normally depending into said compartment, a conveyor in said compartment, means mounted on the top of and extending lengthwise of the container for elevating the gates to close said spaced openings, a motor within and mounted upon the bottom of said container in proximity to said entrance opening, and a conveyor drive leading from said motor.

1,921,960
PROCESS FOR RECLAIMING FILM SCRAP WITH AN ALCOHOLIC ALKALI SOLUTION
Walter John Weyerts and Kenneth C. D. Hickman, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York
No Drawing. Application May 24, 1930
Serial No. 455,452
13 Claims. (Cl. 252—1)

3. The process of reclaiming dye cellulose nitrate film scrap which comprises subjecting the film scrap base to the action of an alcoholic solution of sodium hydroxide.

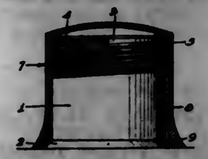
9. The process of reclaiming dyed cellulose nitrate film scrap which comprises hydrolyzing the surface of the film scrap base with an alcoholic alkaline solution and then removing that portion of the film which has been hydrolyzed.

1,921,961
APPARATUS FOR CONNECTING A SOURCE OF ACOUSTIC WAVES WITH SEVERAL LISTENERS FOR A SUITABLE TIME
Maxime Baze, Paris, France, assignor to Holding Internationale Societe Anonyme, Luxemburg, Grand-Duchy of Luxemburg
Application June 5, 1931, Serial No. 542,362, and in France June 7, 1930
8 Claims. (Cl. 179—1)



1. In an ordinary telephonic system including a plurality of subscriber's lines each connected with a subscriber's station provided with an ordinary telephone set respectively, a transmission distributing station in said telephonic system adapted to be called in the ordinary way from any of the subscriber's stations and comprising in combination, a microphone, electric amplifying means connected with said microphone, an output circuit for said amplifying means, a plurality of transformers having their primary windings inserted in series in said circuit, and means for connecting the subscriber's lines with the secondary windings of said transformers respectively.

1,921,962
CONTAINER
Wayne W. Bissell, New Castle, Pa.
Application March 31, 1932. Serial No. 602,295
3 Claims. (Cl. 215—12)



1. A container of the character described, said container being provided with an exteriorly threaded portion and with upper and lower rigid interiorly threaded cover members, each of said cover members being adapted to be threadedly connected to said container at its exteriorly threaded portion.

1,921,963
FADE-IN AND FADE-OUT FOR MOTION PICTURE FILM SOUND RECORD
John I. Crabtree, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York
Application March 30, 1929. Serial No. 351,251
10 Claims. (Cl. 274—43)



1. In the art of sound photography, the method of reducing the objectionable sound effect at the change-over from one piece of sound record to another which comprises obscuring part of the sound record at the change-over point by applying a piece of opaque, flexible material.

2. A motion picture film having thereon two consecutive areas containing photographic sound records joined together, and a piece of opaque material applied to the sound record for obscuring a portion of each record at the junction point.

1,921,964
MOTION PICTURE AND SOUND RECORD FILM
John I. Crabtree and Charles E. Ives, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York
Application June 1, 1929. Serial No. 367,763
7 Claims. (Cl. 274—43)



1. The combination with a spliced motion picture film having thereon two areas bearing photographic sound records joined together at their ends, of a transition piece attached in superimposed relation over the junction of the two sound records, said transition piece having an extension joined to the main portion thereof by a weakened connection.

5. As an article of manufacture for application to a motion picture film bearing a longitudinally extending sound record, a strip of material perforated along one edge for registration with the perforations of a motion picture film of standard dimensions and having a portion varying longitudinally in its total light transmission to be positioned for registration with the sound record of the film, and having a transversely extended tab rigidly connected thereto by a curved line of scoring.

1,921,965
INDICATING DEVICE
George B. Crapo, Lynbrook, N. Y.
Application November 10, 1931
Serial No. 574,199
3 Claims. (Cl. 45—97)

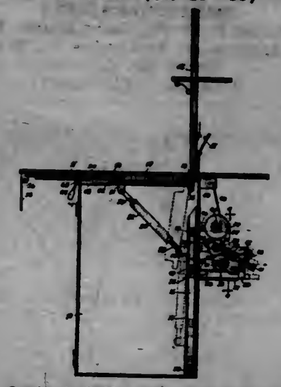


1. An indicating device of the character set forth and for the purpose specified including a longitudinally adjustable tubular body comprising a pair of telescopically associated slidable and relatively turnable sections and a reflector disposed exteriorly of and supported by the outer end of one of said body sections for angular adjustment and similar means at the opposite ends of the body for attaching the device in place and for securing said body sections in longitudinally adjusted and relatively turned relation.

1,921,966
PRODUCTION OF WOOD PULP
Lemuel B. Decker, Kenogami, Quebec, Canada
No Drawing. Application February 13, 1932
Serial No. 592,337
27 Claims. (Cl. 92—6)

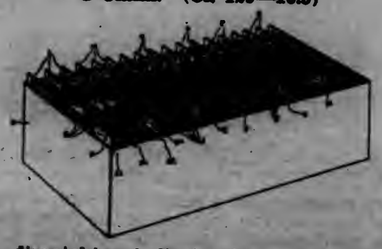
1. A process of treating wood for the production of pulp which consists in the successive steps of immersing wood in log form in a sulphite liquor, and treating the wood in the liquor at an approximately uniform temperature for a period of time sufficient to effectively impregnate the wood.

1,921,967
BURGLAR TRAP
Frank E. Eckerson, Pittsfield, Mass.
Application August 10, 1931. Serial No. 556,293
12 Claims. (Cl. 43—59)



1. In a device of the class described, a cage open at its top, a hinged member for closing the opening, means for holding the member in position at the opening, guideway at the sides of the opening, an auxiliary member for moving in the guideways for closing the opening, and electrical means for freeing the first mentioned means and for moving the auxiliary member to close the opening.

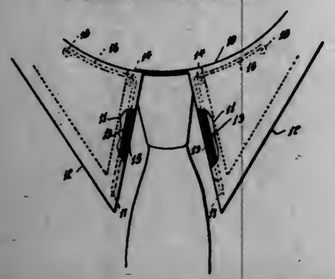
1,921,968
DELIVERY SYSTEM
Paul S. Endacott, Detroit, Mich., assignor to Phillips Petroleum Company, Bartlesville, Okla., a Corporation of Delaware
Application April 21, 1930. Serial No. 446,084
1 Claim. (Cl. 129—16.5)



A dispatching indicator for use with a commodity delivery system, comprising a holder, a multiplicity of cards, one for each customer, said cards being of uniform thickness and arranged one behind the other in the holder, divider cards arranged in spaced relation in the holder and dividing the customer's cards into groups, each

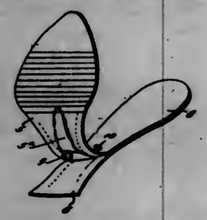
divider card having a projecting tab, the tabs of the successive divider cards bearing successive designations indicating calendar periods, a plurality of cards insertable into said groups, each of the last-mentioned cards having a projecting tab bearing indicia indicating a particular truck servicing an allotted portion of a group of customers, and a plurality of flag cards insertable into any one of said groups according to reported positions of the trucks, each of the flag cards having a projecting tab marked to indicate a particular truck, said projecting tabs forming indicators whereby an operator may visually compare the position of the flag cards with relation to the truck cards and determine the location of trucks among their allotted customers.

1,921,969
SOFT COLLAR PIN
Charles E. Ervin, Terre Haute, Ind.
Application September 14, 1932
Serial No. 633,172
1 Claim. (Cl. 24—87)



A collar holding pin, comprising a strand of spring wire bent intermediate of its ends to provide an angular member, the wire at said bent portion coiled and tensioned to normally spread the ends of the wire, one of said ends adapted for insertion in the hem on the front of an apparel collar and pointed to facilitate said insertion, the other end of the member being adapted to resiliently engage under the collar fold.

1,921,970
COMBINED INSOLE AND SHANK
Bernard Feldman, Newton, Mass.
Application July 7, 1932. Serial No. 621,258
2 Claims. (Cl. 36—76)



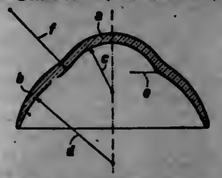
2. In combination, a shoe inner sole, a "sock-lining" covering the top face of the inner sole, a shank reinforcement united by stitching to the under side of said inner sole, a flexible tube confined between said inner sole and shank reinforcement, said tube being open at its ends, and an eyelet at one end of said tube opening through the inner sole and sock lining so as to permit a circulation of air to thereby maintain the tube from collapsing and also ventilate the foot.

1,921,971
CONTACT GLASS
Ferdinand Fertsch and Hans Hartinger, Jena, Germany, assignors to the Firm Carl Zeiss, Jena, Germany
Application June 6, 1931, Serial No. 542,553, and in Germany June 16, 1930
3 Claims. (Cl. 88—54)



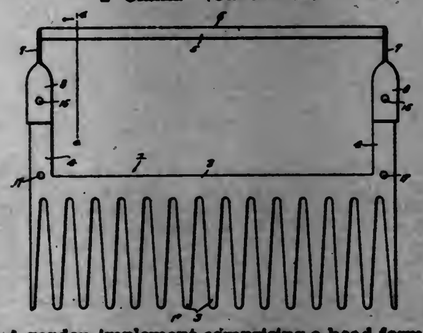
1. A contact glass comprising a bowl-like corneal part, an annular sclerotic part, and an annular intermediate part interconnecting the two first said parts, the distance of the interior vertex of the corneal part from the smallest diameter of the sclerotic part being greater than the depth of the corneal part.

1,921,972
CONTACT GLASS
Ferdinand Fertsch and Hans Hartinger, Jena, Germany, assignors to the firm Carl Zeiss, Jena, Germany
Application June 16, 1931, Serial No. 544,773, and in Germany June 28, 1930
2 Claims. (Cl. 88—54)



1. A contact glass, the interior surface of this contact glass consisting of a plurality of differently curved parts and additional parts, each additional part interconnecting two adjacent ones of the said differently curved parts and having a meridional curve which touches the meridional curves of the said adjacent parts, the radius of curvature of the meridional curve of the additional part being greater than that of the meridional curve of the corneal part.

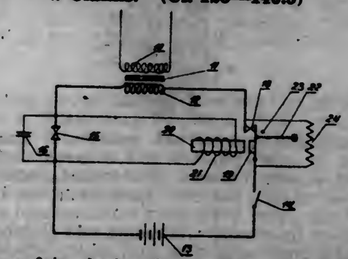
1,921,973
GARDEN IMPLEMENT
Thorvald Jensen, Wetaskiwin, Alberta, Canada
Application May 21, 1932. Serial No. 612,777
1 Claim. (Cl. 97—66)



A garden implement comprising a head formed from a single blank of substantially flat metal

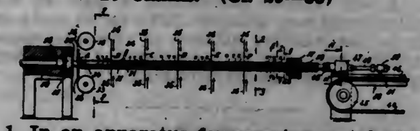
and including a transverse bar, arms rising from the end portions of said bar, a cutter bar, of substantially concavo-convex transverse section, mounted at right angles to the head in vertically spaced relation to said head, flat downturned members on the ends of the cutter bar, the members terminating, at their lower end portions, in substantially U-shaped socket members positioned at right angles to said members, the arms being engaged in the socket members and secured therein, a handle, and means for mounting the head on the handle.

1,921,974
SECURITY DEVICE FOR BATTERY IGNITION CIRCUITS
Pierre Jolivet and Jacques Jolivet, Maison-Carree Alger, France
Application December 31, 1931, Serial No. 584,302, and in France July 7, 1931
2 Claims. (Cl. 123—146.5)



1. A safety device for ignition circuits comprising in series a battery, a circuit breaker, the primary of an induction coil, and an electrically operated switch having its controlling circuit connected in shunt upon said circuit breaker.

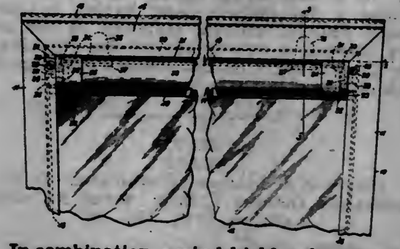
1,921,975
APPARATUS FOR MAKING FINNED TUBING
Russell C. Jones, Bronxville, and Robert Colston, New Rochelle, N. Y., assignors to The Griscom-Russell Company, New York, N. Y., a Corporation of Delaware
Original application January 5, 1931, Serial No. 506,612, and in Canada July 16, 1930. Divided and this application February 23, 1932. Serial No. 594,564
10 Claims. (Cl. 29—33)



1. In an apparatus for securing metal ribbon to metal tubes to form finned tubing, groove forming devices mounted in spaced relation around the periphery of a tube and arranged to support the tube at a plurality of points around its periphery, means for drawing the tube longitudinally in coaction with said grooving devices thereby forming a plurality of substantially longitudinal grooves in the surface of the tube, means for feeding the ribbon in alignment with the axis of the tube edgewise into proximity to said grooves as the tube moves forward, rolls co-acting with the ribbon to press the same into said grooves and means for displacing the metal of the tube against the sides of the ribbon to anchor the ribbon to the tube.

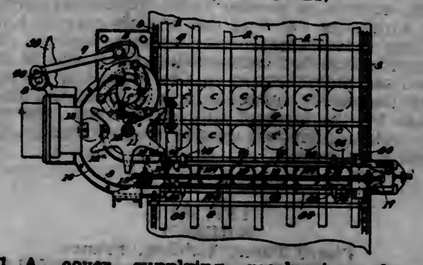
10. In an apparatus for securing metal ribbon to metal tubes to form finned tubing, stationary grooving devices, means for engaging one end of the tube to draw the same longitudinally in coaction with said grooving devices to form a plurality of longitudinal grooves in the surface of the tube, and groups of ribbon supplying and affixing devices disposed in spaced relation longitudinally of the tube, said tube drawing means including mechanism for prevennting the rotation of the tube during the advance thereof so as to cause the fins to be affixed in lineal parallel relationship to one another.

1,921,976
AUTOMOBILE VENTILATOR
Edward L. Kraft, York, Pa., assignor to Martin-Parry Corporation, York, Pa., a Corporation of Delaware
Application September 16, 1931
Serial No. 563,185
15 Claims. (Cl. 296—94)



1. In combination, a windshield sash, means for pivotally connecting the sash to a portion of the vehicle body, said sash including end frame members having glass receiving channels, a glass panel positioned within the sash with its end edges seated in said channels, said windshield glass terminating at one edge short of the adjacent portion of the windshield sash to provide a ventilating opening, supporting brackets having means fitting the channels in the end frame members of said windshield sash, and a ventilator body pivotally supported by said brackets.

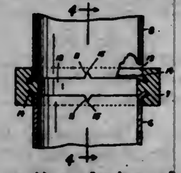
1,921,977
COVER SUPPLYING MECHANISM FOR MULTIPLE CAN CLOSING MACHINES
Alfred L. Kronquest and Matthew M. Sedwick, Syracuse, N. Y., assignors to Continental Can Company, Inc., New York, N. Y., a Corporation of New York
Application October 23, 1931. Serial No. 570,690
14 Claims. (Cl. 113—14)



1. A cover supplying mechanism for a multiple can closing machine comprising means for feeding lines of cans simultaneously to a closing mechanism, a supporting means for covers extending across the path of travel of the cans at right angles thereto, means for moving covers along said supporting means to a posi-

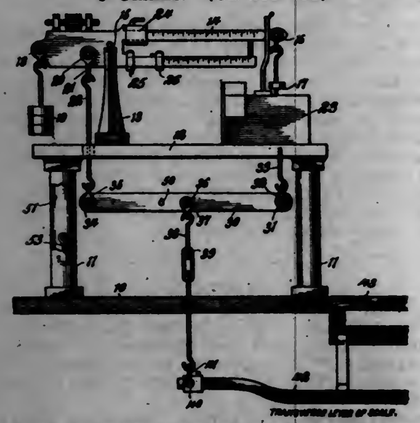
tion directly over cans beneath the same and means for simultaneously moving said supporting means from beneath the covers for dropping the covers onto the cans.

1,921,978
CONNECTING RING
Eugene A. Leary, Cincinnati, Ohio
Application May 20, 1931. Serial No. 538,713
4 Claims. (Cl. 285—193)



1. In a connecting device of the class described a flat endless band having a pair of spaced annular grooves undercut in the inner face thereof, a dovetailed annular rib between said grooves and a cutting wedge extending from each side of the rib.

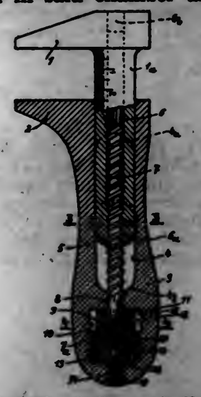
1,921,979
SCALE
Clarence A. Lindsay, Washington, D. C.
Application October 7, 1932. Serial No. 636,735
6 Claims. (Cl. 265—53)



1. In a scale, a platform adapted to receive test weights of known value, indicating means by which the value of the weights may be indicated, a lever system including a lever of the second class for transmitting the force of the load on the platform to the indicating means, and means for substituting a lever of the third class for the lever of the second class, whereby the value of the test weights is multiplied on the indicating means.

1,921,980
WRENCH
Pierre Porte, Viroflay, France
Application October 10, 1932, Serial No. 637,146, and in France October 10, 1931
4 Claims. (Cl. 81—155)

4. A wrench of the character described comprising a fixed jaw provided with a handle, a movable jaw having a rod extending therefrom and adapted to slide in said fixed jaw and its handle, said rod having an internal channel formed therein, a bearing in the channel of said fixed jaw, a chamber below said bearing, a spindle supported in said bearing with one end extending into the chamber and the other end in screw threaded engagement with the end portion of the rod extending from the movable jaw, a roller housed in said chamber and secured to



the extended end of the spindle, a ring also housed in said chamber and disposed in longitudinal alinement with said roller, said roller and ring having corresponding channels formed upon their outer peripheral surfaces, and a locking sleeve internally channeled and slidably displaceable over said ring and roller whereby to interconnect the same and thus prevent rotation of said spindle.

1,921,981
BOLT ANCHOR
John Joseph Rawlings, London, England, assignor to The Rawlplug Company Limited, London, England
Application February 24, 1932, Serial No. 594,951, and in Great Britain December 22, 1931
8 Claims. (Cl. 72—106)

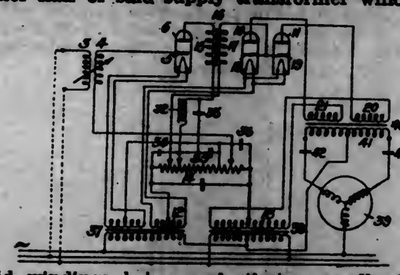


7. A bolt anchor comprising a part of soft ductile metal, and detached hard metal parts inlaid in the exterior surface of the soft metal, the said hard metal parts having flat outer faces disposed in pyramidal formation.

1,921,982
REMOTE CONTROL SYSTEM
Bruno A. Wittkuhns, Chatham, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York
Application March 6, 1930. Serial No. 433,562
13 Claims. (Cl. 172—179)

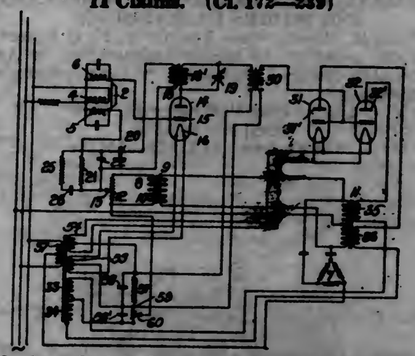
1. In an electron tube amplifier for controlling a motor from a weak current controller, a pair of output vacuum tubes, a plate supply transformer therefor, a connection from one terminal of the said controller to the girds of both tubes in parallel, means for supplying raw alternating current to the plates of said output tubes from opposite ends of a center tapped secondary of said plate supply transformer, and an output transformer having a plurality of primary windings, of which one is in circuit

with the plate of one of said output tubes and with one half of said supply transformer winding, and another one is in circuit with the plate of the other of said output tubes and with the other half of said supply transformer winding,



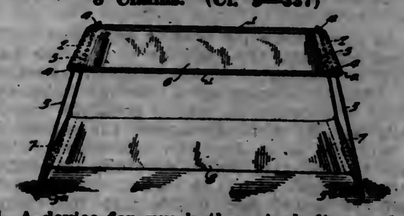
said windings being such that normally they magnetize the transformer core in the same direction whereby the secondary of the last-named transformer is only energized when the output of the tubes becomes unbalanced.

1,921,983
FOLLOW-UP DEVICE FOR GYRO COMPASSES
Bruno A. Wittkuhns, Chatham, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York
Application November 4, 1930. Serial No. 493,342
11 Claims. (Cl. 172—239)



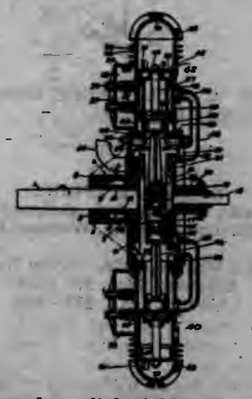
2. An electrical non-contacting, thermionic follow-up system for gyroscopic compasses and the like having a controlling and a follow-up element, characterised by the provision of feedback means for preventing the usual mechanical hunt of the follow-up element, and means for replacing said hunt by setting up a low amplitude low frequency tremor.

1,921,984
COMBINED SUNSHADE AND HEADREST
David Pelton Moore, Avon Park, Fla.
Application August 4, 1932. Serial No. 627,396
8 Claims. (Cl. 5—337)



1. A device for sun-bathers including a shade member, two legs hingedly connected thereto for movements substantially at right angles or parallel thereto, and a flexible head rest carried by the legs and adapted when the legs are substantially at right angles to the shade member to lie substantially parallel to the shade member.

1,921,985
INTERNAL COMBUSTION ENGINE
Edward Moore, Newark, N. J., and Frank Engel, Brooklyn, N. Y., assignors to Albion D. T. Libby, East Orange, N. J.
Application March 16, 1929. Serial No. 347,500
18 Claims. (Cl. 123—55)

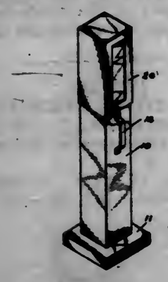


9. A two-cycle radial eight-cylinder internal combustion engine having its cylinders set 45° apart and having a successive firing order of its cylinders, said engine having a crank-case carrying the cylinders, a fixed tubular crosshead guide for each cylinder also supported on said case within the cylinders and forming at least a part of a compression chamber, a single throw crankshaft, a piston for each cylinder also forming a moving part of said compression chamber, a connecting rod for each piston operatively connected to the crankshaft, a piston rod for each connecting rod and connecting it to its respective pistons, means for passing a mixture of air, gas, and oil into the crank-case, a fan within the crank case for removing a large part of the oil from the mixture and keeping the mixture well agitated, an induction pipe from the crank-case to each cylinder intake, a shutter for preventing any interference between the various induction pipes and allowing only the right one to have free access to the crank-case at the time of the suction stroke of the piston in the cylinder associated with said pipe, a transfer chamber on the side of each cylinder also forming an extension of the compression chamber formed by a piston and its tubular guide, at least the piston in the bottom cylinders having small holes in their side walls near the end of the piston and said cylinder walls having cooperating holes through their walls into their respective transfer chambers as and for the purposes described.

1,921,986
TESTING APPARATUS
Oscar R. Burden, Wichita Falls, Tex., assignor to The Texas Company, New York, N. Y., a Corporation of Delaware
Application March 20, 1930. Serial No. 437,340
2 Claims. (Cl. 265—45)

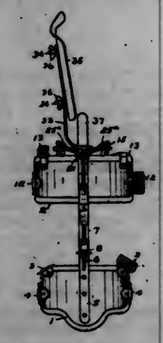
1. In combination with a jar for containing a liquid to be tested, a wind deflector having

sliding, telescoping engagement with one end of said jar, said deflector being provided in one side



thereof with a sight opening through which observations may be made.

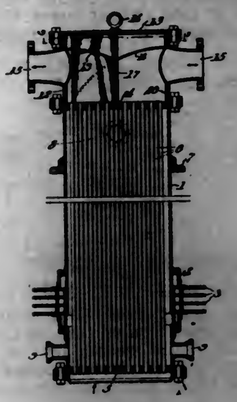
1,921,987
SURGICAL SPLINT
Joe J. Ettinger, Warsaw, Ind., assignor to Zimmer Manufacturing Company, Warsaw, Ind., a Corporation
Application May 14, 1930. Serial No. 452,474
Renewed May 26, 1933
5 Claims. (Cl. 128—88)



1. A surgical splint comprising a base, an upper arm support mounted on the base, a forearm support and a member on the latter support and projecting rearwardly therefrom, the projecting end of the member being curved upwardly and slidable longitudinally of the curve on the upper arm support whereby to secure any longitudinal inclination of the forearm support with respect to the upper arm support.

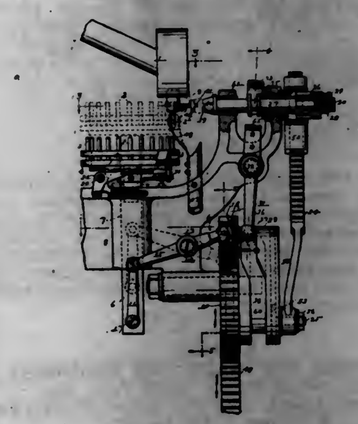
1,921,988
HEATING ELEMENT
Francis X. Govers, Vincennes, Ind., assignor to Indian Refining Company, Lawrenceville, Ill., a Corporation of Maine
Application April 20, 1931. Serial No. 531,600
5 Claims. (Cl. 257—224)

1. A heating element comprising a group of tubes mounted between two tube sheets located substantially at opposite ends of and within a shell, a chamber associated with one of said tube sheets communicating with a source of fluid to be heated, a chamber associated with the other of said tube sheets having a plurality of outlets for said fluid, a removable cover for said last named chamber, and curved plates secured to said cover and removable therewith



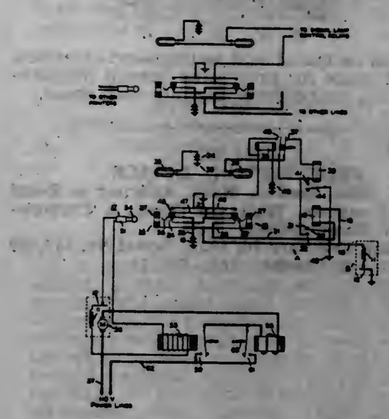
for directing the flow of fluid from said tubes to said outlets.

1,921,989
MECHANISM FOR FEEDING TO, AND CLAMPING BODIES IN, MACHINES
Clifford H. Green, Paris Township, Kent County, Mich., assignor, by mesne assignments, to Automatic Musical Company, a Corporation of Michigan
Application November 11, 1932
Serial No. 642,218
14 Claims. (Cl. 274—45)



1. In mechanism for feeding elongated bodies to and clamping the same in a machine part having an elongated socket adapted to receive said bodies, comprising: a carrier releasably holding said bodies in spaced positions thereon axially parallel with said socket, the carrier being movable in a direction transaxial of the socket to feed said bodies severally to position axially aligned with the socket, and movable axially to insert said bodies into the socket; means for clamping said bodies in their inserted position.

1,921,990
MOTOR CONTROL CIRCUIT FOR TELEGRAPH PRINTERS
Ernest W. Hewitt, Stamford, Conn., and Samuel W. Rothermel, Lynbrook, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York
Application August 1, 1931. Serial No. 554,538
21 Claims. (Cl. 178—4.1)



1. In a telegraph system, a telegraph line circuit, a printer, means for connecting the printer in the line circuit, a motor for driving the printer, a circuit for the motor, and a control system for the motor comprising a first relay operative upon connection of the printer in the line circuit to close the motor circuit, and a second relay operative upon closing the motor circuit to maintain the motor circuit closed independent of the first relay until the motor has reached substantially its normal speed.

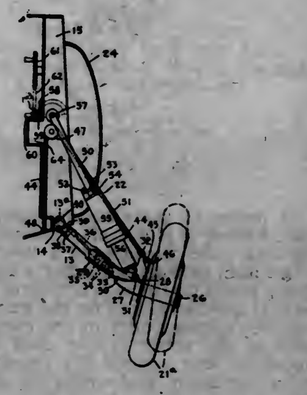
1,921,991
ALCOHOLIC FERMENTATION PROCESS AND PRODUCT THEREOF
Frank M. Hildebrandt, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., New York, N. Y., a Corporation of West Virginia
No Drawing. Application November 20, 1929
Serial No. 408,677
11 Claims. (Cl. 195—29)

1. A process which comprises fermenting an alcohol fermentation solution with a flocculating culture of yeast and the herein described micro-organism benign to yeast, allowing the flocculating yeast and suspended solids to settle at the bottom, withdrawing the solution thus substantially freed of yeast and solids for alcohol recovery operations, removing the residue containing the flocculated yeast, and dehydrating the same to obtain a mixed product suitable for utilization for food or fertiliser.

8. A stock or chicken food, comprising the concentrated and dried residue of a concentrated cane molasses fermentation solution fermented with a flocculating yeast culture, said residue containing the yeast used in the fermentation of such solutiou.

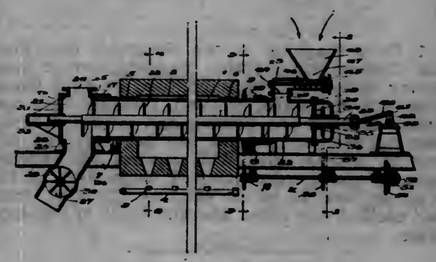
11. A fertiliser, comprising the concentrated and dried residue of a cane molasses fermentation solution fermented with a flocculating yeast culture, said residue containing the yeast used in the fermentation of such solution.

1,921,992
AIRCRAFT
Grover Loening, Mill Neck, Long Island, N. Y., assignor to Grover Loening Aircraft Company, Inc., Garden City, Long Island, a Corporation of New York
Application February 29, 1932. Serial No. 595,796
15 Claims. (Cl. 244—2)



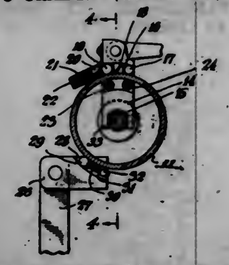
1. In an aircraft having a body, a landing gear comprising a swinging radius arm extending outward from said body in the landing position and extending upward in the raised position, a wheel unit confined by said radius arm to an arcuate path of movement about the pivot of said radius arm as a center, means for raising and lowering said radius arm and wheel unit, a dislocating joint between said arm and unit permitting the angular relation between the wheel and the radius arm to change when the wheel is raised, and a device for locking and unlocking said joint.

1,921,993
APPARATUS FOR LOW TEMPERATURE CARBONIZATION
James Dorsey McQuade, Moundsville, W. Va.
Application November 16, 1929
Serial No. 407,706
3 Claims. (Cl. 202—118)



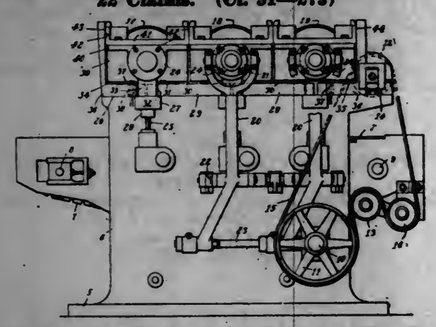
1. The combination with an elongated tubular retort mounted to rotate axially, of a conveyor screw within the retort extending longitudinally thereof mounted to rotate axially and to be movable longitudinally, means for rotating the conveyor screw, means for reciprocating the conveyor screw longitudinally, and means for rotating the retort.

1,921,904
FEED CLUTCH
Thomas C. Mladinich, Garden City, N. Y.
Application June 12, 1929. Serial No. 370,432
Renewed June 21, 1932
3 Claims. (Cl. 74—53)



1. A device of the class described comprising a disc, having a flange of substantially circular inner and outer peripheries, a lever for operating the disc, said lever having a cam groove of varying width on the side of one of said peripheries and another groove on the side of the other periphery, a loose roller in the cam groove, idle rollers in the other groove, said rollers being adapted to bear against the respective peripheries of the flange, and means for oscillating the lever.

1,921,905
DRUM TYPE SANDER
Peter A. Solem, Rockford, Ill.
Original application March 19, 1927, Serial No. 176,618. Divided and this application March 30, 1928. Serial No. 265,829
22 Claims. (Cl. 51—273)



1. In a machine of the character described, the combination of frame members, two or more rotary abrading drums mounted on said frame members in parallel relation, pressure bars disposed between the drums, and a top wall extending over a pressure bar between two adjoining drums, said wall having an exhaust opening communicating with both sides of the pressure bar so as to exhaust the dust from the back of one drum and the front of the next drum.

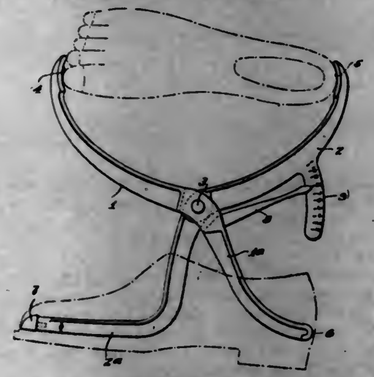
1,921,936
PISTON CONSTRUCTION
Adrian C. Van Hoeydonk, Buffalo, N. Y., assignor to John E. Smith's Sons Company, Buffalo, N. Y., a Corporation of New York
Application July 30, 1932. Serial No. 626,267
3 Claims. (Cl. 74—108)

1. A piston, comprising upper and lower sections having an annular space between the same adjoining their peripheries, a compressible packing member disposed between said sections and about the space therebetween, and an annular



rib formed on one of said sections and extending into said space for preventing inward displacement of the packing member into such space.

1,921,997
SHOE FITTING DEVICE
Elmer J. Bliss, Boston, Mass., assignor to Regal Shoe Company, Whitman, Mass., a Corporation of Massachusetts
Application February 26, 1931. Serial No. 517,799
5 Claims. (Cl. 33—3)

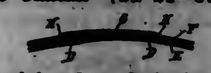


1. A shoe fitting device embracing in its construction, crossed arms pivotally connected intermediate of their ends, the members of the arms on one side of the pivot being formed to caliper the overall length of an interposed foot, the members of said arms on the opposite side of the pivot being formed and dimensioned to be inserted in a shoe to caliper the inside length thereof, one of said shoe-calipering members being provided with a tip corresponding to the usual clearance space in the toe of a shoe, one of said arms being provided with a length-size scale and the other arm being provided with an indicating pointer for indicating the length-size measurement of the foot being calipered and of the shoe being measured.

1,921,998
METHOD OF IMPROVING ALUMINUM AND ALLOYS THEREOF
Walter Bonsack, Cleveland, Ohio, assignor to The National Smelting Company, Cleveland, Ohio, a Corporation of Ohio
No Drawing. Application September 4, 1930
Serial No. 479,790
15 Claims. (Cl. 75—58)

1. The method of improving the characteristics of aluminum and alloys thereof, which comprises maintaining the aluminum or aluminum alloy to be treated in molten condition and at a temperature relatively close to its melting point, holding a fused solution of a boron compound dissolved in a flux containing stable ingredients, in contact with the molten metal for a sufficient length of time to introduce a sufficiently small amount of boron into the metal so that, upon solidification, the aluminum constituent will exhibit relatively fine grain size, said flux being molten at a temperature not substantially more than 100° C. higher than the melting point of aluminum and being capable of dissolving aluminum compounds resulting from the reaction of aluminum and the boron compound.

1,921,999
BANDAGE FASTENER
Fairleigh S. Dickinson, Rutherford, N. J.
Application November 11, 1932
Serial No. 642,171
3 Claims. (Cl. 24—87)



1. A surgical bandage fastening device comprising a thin, longitudinally flexible, transversely rigid metal plate, said flexibility being of such order as to permit the plate to be readily deformed to conform to the curvature of a bandage when in place and inertly to retain the deformed condition, two sets of prongs struck from the body of the plate at a distance from the transverse edges thereof, said edges being smooth, one set of such prongs projecting from one end section of the plate in a direction toward the transverse central line of said plate, the other set of prongs projecting from the same side of the plate but from the other end section and pointing toward the points of the prongs of the first end section, the points of the several prongs lying in approximately the same plane said plate being so free from inherent springiness in the longitudinal direction as to be adapted to be held in position on the bandage solely by reason of the tension of the bandage against the prongs, the material of the plate being otherwise of such rigidity as to prevent the prongs from being bent out of operative position with relation to the plate proper.

1,922,000
COMBINED SHACKLE AND BEARING MOUNTING FOR VEHICLE SPRINGS
Edwin L. Goltry, Red Oak, Iowa
Application March 19, 1932. Serial No. 599,993
11 Claims. (Cl. 267—54)



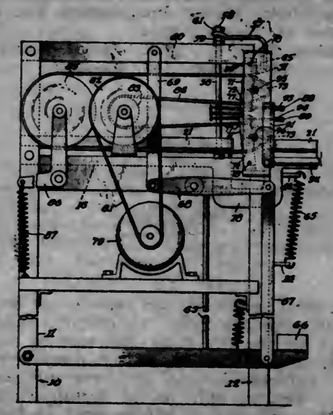
1. A combined shackle and bearing mounting for a vehicle spring comprising, the combination with a vehicle spring having annular terminals, of a pivoted outer pair and a stationary inner pair of shackles adapted to be connected to and depend from a side bar of the chassis of the vehicle, a collar integral with the inner face at the lower portion of each shackle and having an inturned annular flange constituting a support, each terminal of the spring extended into the collars of a pair of shackles and encompassed by the flanges on the collars, a pivot extending through the lower portion of each pair of shackles and an annular terminal, and bearing balls interposed between the sides of an annular terminal and the pair of shackles between which the terminal is positioned, said balls bearing directly against the sides of the terminals and the inner faces of the shackles.

1,922,001
SPRING STRUCTURE
Edwin L. Goltry, Red Oak, Iowa
Application July 8, 1932. Serial No. 621,457
4 Claims. (Cl. 267—47)



4. In a spring structure, a body part comprising an intermediate lamination, an upper set of superposed laminations arranged over said intermediate lamination and a lower set of superposed laminations arranged below said intermediate lamination, spaced links located adjacent each side and on opposite sides of the vertical axis of said body part and arranged in pairs, the links of each pair being disposed in parallelism, the laminations of each of said sets progressively decreasing in length from said intermediate lamination, means for pivotally connecting the upper ends of said links to the ends of the laminations of said upper set, said links having their lower ends provided with slots, and means coacting with said slots for pivotally and slidably connecting the lower ends of said elements to the ends of the laminations of the lower set.

1,922,002
SPRING ASSEMBLING MACHINE
Charles D. Karr, Holland, Mich., assignor to Charles Karr Company, a Corporation of Michigan
Application October 5, 1931. Serial No. 566,346
17 Claims. (Cl. 140—3)



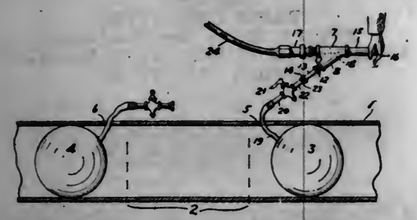
1. In a device for fabricating spring assemblies, mechanism for holding spiral springs, means for connecting said springs together at their upper ends, means for connecting said springs together at their lower ends, and manually controlled mechanism for operating both of said means simultaneously.

1,922,003

APPARATUS FOR INFLATING AND DEFLATING GAS MAIN BAGS

Lawrence Shuman, Philadelphia, Pa., assignor to The United Gas Improvement Company, Philadelphia, Pa., a Corporation of Pennsylvania

Application June 12, 1931. Serial No. 543,807
1 Claim. (Cl. 137—76)



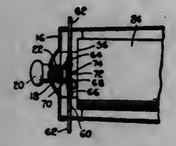
An apparatus for inflating and deflating gas main bags comprising in combination, means for compressing a fluid, a Y-fitting having run openings in axial alignment and a branch opening therein, one of said run openings having the means for compressing a fluid attached thereto, a tube of internal and external conical shape attached in one of said run openings and extending to substantially within the other run opening to serve as an aspirator, an elongated tube connected to said second run opening and substantially spaced from the reduced end of said conical member, said elongated tubular member connected into said second run opening and serving as an outlet for fluid from said conical member and said branch opening, a bag adapted to be inflated and deflated in a gas pipe, a connection between said bag and said branch opening, and a valve controlling said last named connection.

1,922,004

ELECTRICALLY LIGHTED TOY

Anthony N. Smith, Girard, Pa., assignor to The Girard Model Works, Inc., Girard, Pa., a Corporation of Pennsylvania

Application May 27, 1933. Serial No. 673,186
14 Claims. (Cl. 46—48)



1. An electrically lighted vehicle toy comprising a metallic toy body, an electric light bulb mounted on the toy body and having one terminal grounded thereon, switch mechanism optionally movable to any of three positions for providing bright, dim, or no illumination from the bulb, said switch mechanism including a stationary contact and a movable control element and a pair of spaced contacts mounted thereon and interconnected by a resistor also mounted on said control element and movable therewith, and means electrically connecting the toy body, the switch mechanism, and the bulb in series.

1,922,005

METHOD OF PLATING

William R. Stocking, Glastonbury, Conn., assignor to The Williams Brothers Manufacturing Company, Glastonbury, Conn., a Corporation of Connecticut

Application April 2, 1929. Serial No. 351,926
6 Claims. (Cl. 91—68.2)



1. The process of producing plated articles that consists in plating a spot upon such article, condensing only such spot by pressure, while maintaining it above the surrounding surface and then covering the entire article with a plated layer of the same metal as that comprising the spot.

1,922,006

METHOD OF MAKING COLLOIDAL SOLUTIONS OF INORGANIC SUBSTANCES IN POLYALCOHOLS

Carl Hermann von Heessle, Radebeul near Dresden, Germany, assignor to Chemische Fabrik Von Heyden, A. G., Radebeul near Dresden, Germany, a Corporation of Germany

No Drawing. Application August 12, 1930, Serial No. 474,886, and in Germany January 10, 1930

16 Claims. (Cl. 252—6)

1. The method of making colloidal solutions of inorganic substances in a polyalcohol, said method consisting in first producing a solution of the colloidal form of the inorganic substance in an aqueous solvent, admixing the polyalcohol to aforesaid colloidal solution, and evaporating the water from the solution.

15. The method of making a colloidal solution of silicic acid in a polyalcohol, said method consisting in first preparing a colloidal solution of silicic acid in water, adding a polyalcohol and evaporating the water.

1,922,007

MASS RESEMBLING IVORY AND METHOD OF MAKING THE SAME

Rudolf Zellmann, Radebeul, Germany, assignor to Chemische Fabrik von Heyden, A. G., Radebeul near Dresden, Germany, a Corporation of Germany

No Drawing. Application August 12, 1930, Serial No. 474,883, and in Germany February 8, 1930

3 Claims. (Cl. 106—22)

1. The method of transforming casein into a horn-like mass resembling ivory, said method comprising dissolving casein in a suitable solvent, adding a solution of a polysulfide to aforesaid casein solution, acting on the solution mixture with an acid thereby generating a coagel of colloidal sulfur in casein, and removing the acid from the coagel.

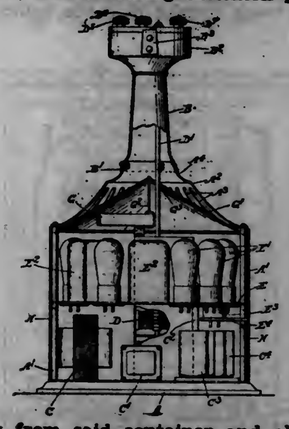
1,922,008

FLOOR RADIOUNIT

Edward F. Andrews, Evanston, Ill., assignor to Andrews-Hammond Corporation, Chicago, Ill., a Corporation of Illinois

Application March 20, 1928. Serial No. 263,007
21 Claims. (Cl. 250—14)

1. A portable radio receiving apparatus which includes a container located adjacent the floor, tuning means positioned in said container, control means for operating said tuning means, positioned above said container, located at a level convenient for the hand of a standing, seated or reclining operator and actuating connecting means between said control means and said tuning means, and a housing extension projecting



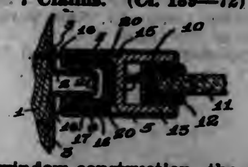
upwardly from said container and about said connecting means, and of substantially less cross-sectional area than said container, an enlargement at the upper end of said extension, an indicating dial within said enlargement, a connection between said dial and said connecting means and means for rotating the dial.

1,922,009

WINDOW AND SASH CONSTRUCTION

Roy T. Axe, Syracuse, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a Corporation of New York

Application April 10, 1931. Serial No. 529,081
7 Claims. (Cl. 189—72)



2. In a window construction, the combination with a window frame having an inwardly projecting guide rib, of a sash having a member formed with a channel extending lengthwise thereof and opening through the edge of the sash member, the channel receiving the rib, and an insert housed in the channel and movable with the sash, the insert being of a yielding non-metallic material and engaging opposite side faces of the rib, said rib and the insert having engaging surfaces at an angle to the side faces of the rib and extending lengthwise thereof, and coacting to limit the widthwise shifting of the sash and hold the sash from running engagement with the frame at the base of said rib.

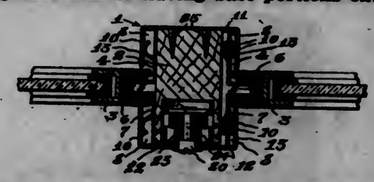
1,922,010

WINDOW CONSTRUCTION (WIDTHWISE ADJUSTABLE SASH GUIDE)

Roy T. Axe, Syracuse, N. Y., assignor to the O. M. Edwards Company Inc., Syracuse, N. Y., a Corporation of New York

Application May 18, 1931. Serial No. 538,149
9 Claims. (Cl. 189—72)

1. In a window construction, the combination of a window frame including a post, a sash guide member carried by the post, a sash coacting with the guide member, the post being provided with channels on opposite sides of the sash with their open sides toward the margin of the sash and the guide member having base portions extend-



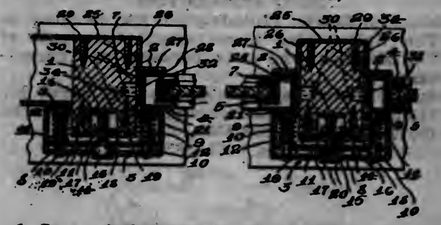
ing into said channels, the guide member being adjustable in a direction widthwise of the sash between the opposite side walls of the channels, and means coacting with the walls of the channels for holding the guide member in its adjusted position in the channel.

1,922,011

SPRING PRESSED WINDOW STOP CONSTRUCTION

Roy T. Axe, Syracuse, N. Y., assignor to the O. M. Edwards Company Inc., Syracuse, N. Y., a Corporation of New York

Application October 10, 1931. Serial No. 568,127
11 Claims. (Cl. 189—73)



1. In a window construction, the combination of a window frame, inner and outer stops forming a sash guide, a sash movable in the guide, one of the stops being formed with a recess, a spring abutment extending into the recess, spring means interposed between the abutment and the stop tending to thrust the stop against the sash, and means acting on the abutment and connected to the frame for securing the abutment to the frame and adjusting the abutment to tension the spring means.

1,922,012

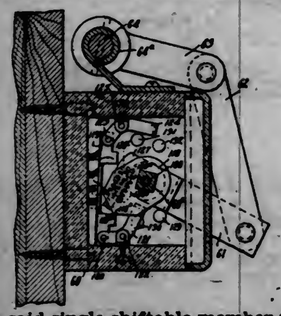
SWITCH

Frank E. Bessler, Akron, Ohio, assignor to The Bessler Disappearing Stairway Company, Akron, Ohio, a Corporation of Ohio

Original application February 19, 1930, Serial No. 429,614. Divided and this application November 6, 1931. Serial No. 573,345
2 Claims. (Cl. 200—67)

1. A switch including spaced contact elements and a movable contact element operable from one to the other, means including a single shiftable member for engaging said movable contact element for initially and positively moving the movable element to break any adhesion between the movable element and either of said spaced elements, and a single yielding means operable after such initial movement to throw the movable element suddenly from one to the other of the spaced contact elements to break and make contacts quickly whereby arcing is reduced, an arm for operating said yielding means, said single shiftable member having mov-

able members connected thereto for shifting the same, said members being arranged to be engaged by said arm and being free of said movable element to permit such actuation by said yielding means and said yielding means being operable



to engage said single shiftable member to set one of the movable members connected thereto in a position to be engaged by said operating arm for a succeeding operation to break the adhesion of contacts after each such throwing of the switch.

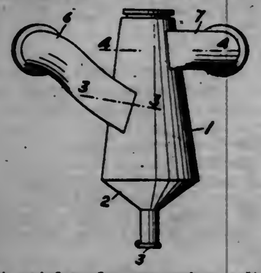
1,922,013

DUST COLLECTOR

Edward J. Brady, Philadelphia, Pa., assignor to The United Gas Improvement Company, of Philadelphia, Pa., a Corporation of Pennsylvania

Original application October 26, 1928, Serial No. 315,131. Divided and this application July 15, 1931. Serial No. 550,838

4 Claims. (Cl. 183—82)



2. A dust catcher for removing solid particles from gas comprising in combination a chamber of frustro-conical shape whose larger diameter is vertically lower than its smaller diameter, an inlet passage for gas and solids tangential to said chamber and directed downwardly, and an outlet passage for gas tangential to said chamber and spaced at a higher level than said inlet passage.

1,922,014

HUMIDIFYING APPARATUS

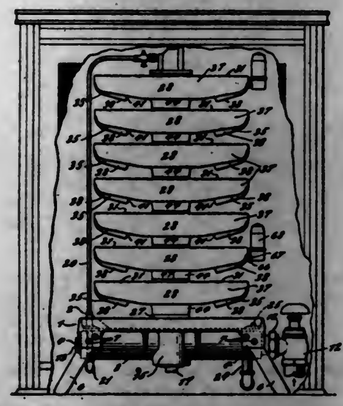
Charles W. Brabbée, Bronxville, N. Y., assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey

Application November 28, 1931

Serial No. 577,751

16 Claims. (Cl. 257—100)

1. An apparatus of the character described, comprising a plurality of superposed horizontally disposed chambered elements vertically spaced from each other, certain of said elements having an upper wall the outer face of which is substantially horizontal and constituting a liquid-receiving surface, means at the sides of said certain of said elements to retain liquid on said surface, said certain of said elements being provided at the opposite ends thereof with means permitting liquid to flow from said surface over said opposite ends, the under face of said element adjacent said ends being formed to cause liquid flowing



over the ends of said certain of said elements to flow over the under surface thereof, means to guide the overflowing liquid on said under surface, means for supplying liquid onto certain of said liquid-receiving surfaces between said ends, and means for admitting a fluid heating medium into said elements.

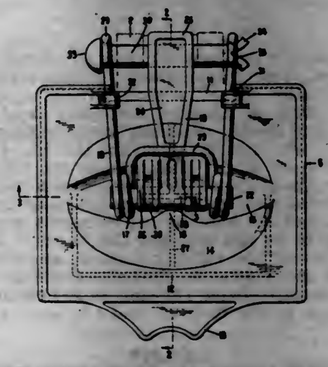
1,922,015

JOURNAL BOX

Howard T. Casey, Rochester, N. Y., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland

Application October 31, 1928. Serial No. 316,262

17 Claims. (Cl. 308—47)



1. In combination, a journal box with a hinge lug, a lid therefor with a substantially straight upper edge disposed entirely below said lug, a lever movably mounted on said lid and resilient means serving to press said lever against said hinge lug and having portions extended to form hinging ears to perform the added function of movably connecting the lid to the box.

1,922,016

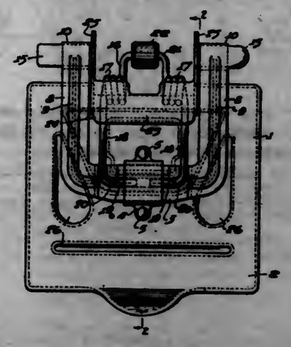
JOURNAL BOX

Glenn F. Couch, Rochester, N. Y., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland

Application November 20, 1930

Serial No. 497,037

8 Claims. (Cl. 308—47)



5. In a journal box lid, in combination, a closure member and a generally U-shaped member carrying hinging ears at its ends and flexibly connected to said closure member adjacent an intermediate portion thereof by means of a plate bridging an intermediate portion of said U-shaped member and with end portions connected to said closure member, whereby equalization of the lid with respect to an associated box is permitted.

1,922,017

ELASTIC FLUID TURBINE

Henry L. Guy, Hale, England, assignor to General Electric Company, a Corporation of New York

Application October 18, 1932, Serial No. 638,416, and in Great Britain October 27, 1931

5 Claims. (Cl. 253—39)



1. In an elastic fluid turbine, a shaft, a bucket wheel fastened to the shaft, a casing, a diaphragm for directing elastic fluid to the wheel and supported by the casing, a packing between the shaft and the casing, a sealing means between the diaphragm and the shaft, and means including said sealing means for preventing a medium leaking past the packing into the turbine from coming into contact with the inner portion of the wheel.

1,922,018

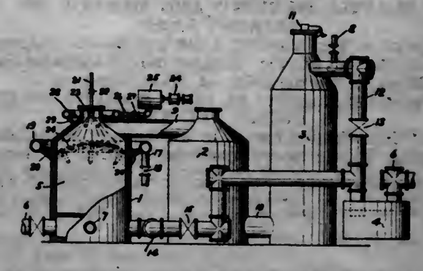
CARBURETED WATER GAS METHOD

Edwin L. Hall, Philadelphia, Pa., assignor to The United Gas Improvement Company, Philadelphia, Pa., a Corporation of Pennsylvania

Application November 28, 1930

Serial No. 498,692

2 Claims. (Cl. 48—208)



2. A method of generating carbureted water gas in a solid fuel bed containing an oil residue in a water gas generator for the manufacture of carbureted water gas which includes air blasting the fuel bed upwardly from the bottom, introducing secondary air marginally adjacent the upper edge of the fuel bed, directing jets of air other than said secondary air toward the center of the top of the fuel bed, burning the blast gases and consuming, at least partially, any oil residue on the fuel bed with the secondary air so introduced, and thereby heating the entire top of the fuel bed to incandescence, then alternately passing steam through the incandescent fuel and generating water gas, and simultaneously carbureting the water gas by spraying heavy oil on the upper surface of the highly heated marginal portion.

1,922,019

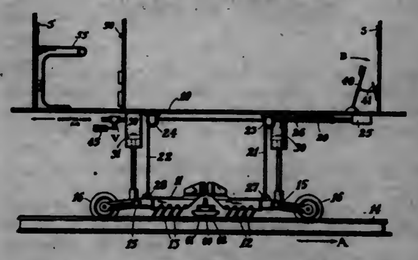
FLAW DETECTOR CAR

George L. Jones, Garden City, N. Y., assignor to Sperry Products, Inc., Brooklyn, N. Y., a Corporation of New York

Application December 13, 1930

Serial No. 502,160

16 Claims. (Cl. 175—183)



1. In a flaw detector car for testing electric conductors, means whereby said car may be operated forward or in reverse, means including contacts for leading current into and out of the conductor, and means rendered effective by the operation of said car in reverse whereby said contacts are moved out of engagement with the conductor.

15. In a flaw detector car for testing electric conductors, means including contacts for leading current into and out of the conductor, means for operating said contacts into and out of engagement with the conductor, and means in-

cluding a plurality of hand operated elements under the joint control of a plurality of operators for rendering said contact moving means effective to operate said contacts into engagement with the conductor.

1,922,020

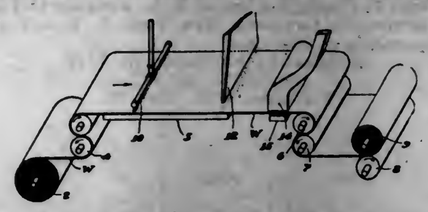
ELASTIC WEBBING AND METHOD OF MAKING SAME

George S. Van Voorhis, Littleton, Mass., assignor to United Elastic Corporation, Easthampton, Mass., a Corporation of Massachusetts

Application January 19, 1931. Serial No. 509,625

5 Claims. (Cl. 91—68)

1. That improvement in methods of manufacturing elastic sheet material formed at least partially of rubber, which consists in stretching said material, and, while holding the material so



stretched and elongated, adhesively securing a coating of short loose fibre to the surface thereof, to provide a flocked surface.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 433—No. 3 TUESDAY, AUGUST 15, 1933 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $19.25; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
Issue of August 15, 1933	507
Adverse Decisions in Interference	507
Adjudicated Patents	507
Disclaimers	507
Applications Under Examination	508
Decisions of the U. S. Courts—	
In re McKee	509
Bloodhart v. Leverner	510
In re Pomeroy	512
In re McPherson	514
Patent Suits	515
Trade-Marks Published (186 Applications)	517
Trade-Mark Registrations Granted	539
Trade-Mark Registrations Renewed	547
Labels	548
Prints	548
Reissues	549
Designs	549
Patents Granted	561

August 15, 1933

Trade-Marks	226—No.	305,296 to No.	305,521, inclusive.
T. M. Renewals	23		
Labels	28—No.	42,528 to No.	42,555, inclusive.
Prints	6—No.	14,297 to No.	14,302, inclusive.
Reissues	3—No.	18,916 to No.	18,917, inclusive.
Designs	33—No.	90,486 to No.	90,519, inclusive.
Patents	1060—No.	1,922,021 to No.	1,923,059, inclusive.
Total	1,376		

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 1,761,152, A. E. Pew, jr., Method for deodorizing petroleum, decided July 11, 1933, claim 17.

Pat. 1,886,211, F. H. Mix, Box, decided July 15, 1933, claims 1 and 2.

Adjudicated Patents

(C. C. A. Conn.) La Pointe patent, No. 1,109,847, for key-seat-broaching machine, claims 6 and 7 *Held* not infringed. *Oilgear Co.* v. *J. N. La Pointe Co.*, 65 F.(2d) 880.

(C. C. A. Conn.) Ferris patent, No. 1,468,595, for broaching machine, claims 8, 11, and 12 *Held* invalid for lack of invention. *Id.*

(C. C. A. N. Y.) Cohen patent, No. 1,555,634, for variable condenser, *Held* invalid. *Radio Condenser Co.* v. *General Instrument Corporation*, 65 F.(2d) 458.

(C. C. A. N. Y.) Cohen patent, No. 1,563,893, for multiple variable condenser, *Held* invalid. *Id.*

(C. C. A. N. Y.) Georgiev patent, No. 1,789,949, for electrolytic cell, claims 11, 12, 19, and 20 *Held* valid and infringed. *Aerovox Corporation* v. *Concourse Electric Co.*, 65 F.(2d) 886.

(C. C. A. N. Y.) Georgiev patent, No. 1,815,768, for electrolyte, claims 8, 9, 10, and 14 *Held* valid and infringed. *Id.*

Disclaimers

1,739,268.—*Friedrich Stein*, Heidenheim-on-the-Brenz, Germany. DEVICE FOR COPYING ON MACHINE TOOLS. Patent dated December 10, 1929. Disclaimer filed July 19, 1933, by the assignee and the patentee, *J. M. Voith, and Friedrich Stein.*

Hereby enter this disclaimer to that part of the claim in said specification which is in the following words, to wit:

"1. A reproducing device, comprising a movable pattern and a movable work piece whereon the pattern is to be reproduced, and means under the command of the pattern for operating upon the work piece, comprising a tool, a fluid motor commanding the tool, and valve means controlling the operation of the motor connected to be controlled by the movement of the pattern.

"2. A reproducing device, comprising a movable work piece and a movable pattern, a tool to engage the work piece, a fluid motor to control the movement of the tool, and connections comprising levers one of which engages the pattern for controlling the motor to cause the tool to reproduce the pattern on the work piece."

1,773,025.—*George C. Chase*, South Orange, N. J. CARRIAGE-SHIFT CONTROL FOR CALCULATING MACHINES. Patent dated August 12, 1930. Disclaimer filed July 19, 1933, by the assignee, *Monroe Calculating Machine Company.*

Hereby enters this disclaimer to the combination of element set forth in claim 3 of said patent, except when the clutch is one in which the elements thereof may be brought into engagement without transmitting power from one element to the other.

1,861,956.—*Richard J. Deerborn*, Summit, N. J., and *George W. Gray*, New York, N. Y. PROCESS FOR DECOMPOSING ORGANIC MATERIALS. Patent dated June 7, 1932. Disclaimer filed July 19, 1933, by the assignee, *The Texas Company.*

Hereby disclaims from claims 1 to 7, inclusive, of said Letters Patent all processes except those in which the generated vapors are removed from the converting vessels and are then fractionated between motor fuel as a vapor fraction and less volatile constituents as condensate.

Condition of Applications Under Examination at Close of Business July 29, 1933

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 40,663; Trade-Mark Division, 574. Oldest new case, Mar. 23, 1933; oldest amended, Mar. 23, 1933.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Mar. 30	Apr. 1	616
6708	2. HERRMANN, D. (Act.), Fishing and Trapping; Dairy; Animal Husbandry; Presses; Tobacco; Velocipedes; Butchering.	Mar. 29	Apr. 3	875
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	May 2	May 3	502
7083	4. DONNELLY, A. E. (Act.), Conveyers; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds.	Apr. 4	Apr. 1	570
3628	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Etc.	May 1	Apr. 29	508
4996C	6. LEWERS, A. M., Carbon Chemistry	Apr. 13	Apr. 13	1,092
5725	7. JARBOE, C. G., Optics; Photography	Apr. 12	Apr. 12	1,033
7514	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	May 10	May 26	511
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	May 1	May 1	577
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Apr. 29	Apr. 29	494
5067B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Mar. 29	Mar. 29	684
7701	12. HENRY, C. C., Machine Elements; Cylinders and Pistons; Mechanical Starters; Stop Mechanisms	Apr. 17	Apr. 17	622
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Apr. 24	Apr. 24	650
5097	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	May 5	May 10	501
4897	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Apr. 14	Apr. 14	1,227
5612	16. SPENCER, C. J., Telegraphy; Telephony	May 1	May 1	593
5701	17. ARMSTRONG H. (Act.), Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Mar. 29	Mar. 29	1,020
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	June 7	June 2	312
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Apr. 1	Apr. 1	1,045
6613	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	June 9	June 9	225
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Mar. 29	Mar. 30	558
5724	22. RINGLE, D. (Act.), Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion; Boating, Implements.	Apr. 3	Apr. 3	1,026
7892	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Mar. 30	Mar. 30	573
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	May 9	May 12	495
5700	25. BLAKELY, C. F., Agitating; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Apr. 3	Mar. 31	1,006
5803	26. ADAMS, W. M., Electricity, Generation; Motive Power	May 11	May 3	482
5708	27. CLARK, W. N. (Act.), Brushing, Scrubbing, and Cleaning; Washing Apparatus	May 1	May 1	496
4628	28. BENSON, A. R., Internal-Combustion Engines	Mar. 30	Mar. 29	825
5082	29. SHKLARIN, J. B. (Act.), Woodworking; Tools; Compound Tools; Furniture; Metal Working	May 9	May 9	322
4074	30. SHIFMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	Apr. 29	Apr. 29	684
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Apr. 1	Mar. 31	1,270
4086	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	May 4	May 4	495
6096	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roofs; Wooden Buildings.	Apr. 3	Apr. 5	1,180
6625	34. SAPERSTEIN, S. (Act.), Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders; Fluid Pressure Brakes.	Mar. 28	Mar. 23	1,062
3600	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Filling and Closing Portable Receptacles.	Apr. 6	Apr. 6	784
7624	36. McFAYDEN, A. D. (Act.), Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Mar. 29	Mar. 29	1,327
5889	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 29	Apr. 29	586
7510	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells; Hydraulic Cement and Lime; Roads and Pavements.	Mar. 30	Mar. 30	765
4874	39. WHITNEY, F. J. (Act.), Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution.	Apr. 13	Apr. 13	829
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Apr. 12	Apr. 12	1,383
6062	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices; Typewriting Machines.	Apr. 8	Apr. 5	588
5882	42. CUTTING, H. O., Electric Signaling	Mar. 30	Mar. 29	909
4886B	43. KLINGE, E. F., Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Apr. 10	Apr. 10	991
4087B	44. SHAFFER, C. H., Refrigeration; Dispensing Beverages	Apr. 1	Apr. 1	901
7097	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	June 5	June 5	343
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems	Apr. 19	Apr. 22	561
7600	47. BARKER, H., Clutches; Brakes; Motors	Apr. 13	Apr. 17	900
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Apr. 3	Apr. 11	678
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers	Mar. 30	Apr. 1	351
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating Processes; Carbohydrates and Condensation Products.	Mar. 29	Mar. 29	906
5628	51. BACKUS, C. D., Radiant Energy	May 1	May 1	901
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Mains and Pipes.	May 8	May 25	513
6697	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	May 25	May 22	483
5874	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Apr. 1	Apr. 1	850
6887	55. BOWEN, S. T.—(Bread, Pastry, and Confection Making; Cutlery	May 1	May 1	358
	(Designs	July 3	June 27	224
4725	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Mar. 30	Mar. 31	866
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	May 3	May 3	411
5605	58. DOWELL, E. F., Abrading	May 17	May 15	348
4709	59. RICHARD, V. I., Chemistry; Fertilizers	Apr. 25	Apr. 26	714
5986	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Apr. 1	Mar. 30	1,094
6724	61. PARKS, G. E., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus.	Apr. 1	Apr. 1	600
7525	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles; Cloth, Leather, and Rubber Receptacles.	Apr. 15	Apr. 15	1,329
4988	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Mar. 31	Mar. 31	1,108
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel Alcohol.	Apr. 15	Apr. 14	1,116
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Apr. 1	Apr. 1	1,084
2099B	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND.—(Trade-Marks	July 3	July 17	749
	(Labels and Prints	July 5	July 15	126

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE McKEE

No. 3,139. Decided April 24, 1933

1. PATENTABILITY—CUT OF MEAT BEARING A SERIES OF IDENTIFYING MARKS AND THE PROCESS OF MAKING THE SAME.

Claims for a cut of meat bearing a series of identifying marks and claims for so marking a meat product *Held* unpatentable over the prior art.

2. SAME—SAME—NOT WITHIN STATUTORY CLASSES OF INVENTION.

Claims for a cut of meat bearing a series of identifying marks and claims for so marking a meat product *Held* unpatentable since neither the article nor the process come within the statutory classes of invention.

APPEAL from the Patent Office. Affirmed.

Mr. Roy W. Johns and *Mr. Harry F. Riley* for McKee.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

BLAND, *J.*:

The Primary Examiner in the United States Patent Office rejected all the claims of appellant's application for a patent for improvement in meat products and the method of marking same. The Board of Appeals affirmed the action of the Examiner, and from the decision of the Board appeal is taken here.

Claims 8, 9, 10, 11, and 12 are drawn to cover an article, namely a piece of meat bearing a series of identifying marks arranged in a certain manner for the purpose of identifying the meat. Claims 5, 6, 7, 8, 13, 14, 15, 16, and 17 are directed to the method of marking the meat. Claims 8, 6, and 17 are illustrative and read:

8. A principal cut of meat bearing a series of identifying marks in relatively close spaced relation and having their longitudinal axes arranged substantially parallel to the planes in which said meat is to be subdivided in forming minor cuts of meat for purchasers.

6. The method of making a meat product which consists in forming a major cut or carcass of meat and then applying to the fatty surface thereof a series of repetitions of the brand of the manufacturer arranged in a row.

17. The method of marking meat which consists in causing the points of a series of needles to contact successively with an ink supply and thereafter to penetrate successively successive portions of the meat surface and thereby deposit ink at the points of penetration.

The references relied upon are: Conway, 996,004, June 20, 1911; Waite, 1,188,588, June 27, 1916; Golding, 1,481,864, January 29, 1924; Fiedler, 1,704,124, March 5, 1929; Patton, 1,712,518, May 14, 1929; and Naylor, 1,699,012, January 15, 1929.

The claims were rejected upon two grounds: First, for the reason that there was nothing new or inventive about putting marks upon meat for the purpose of identification and that appellant's marking is old in the art; second, that the marking of meat for such purpose does not come within the purview of the patent statute.

Appellant's method of marking meat consists of marking a major cut of beef with the name of the producer, or some other name indicating origin, in relatively close spaced relation so that when a steak or piece is cut from the main cut, the identifying mark will be on the portion cut off. While the claims, except claims 7, 8, and 17, do not call for any particular means of marking, appellant's drawing shows the words "Swift's Premium" with the word "Swift's" being placed immediately above "Premium", and each letter made by a small needle perforation of the meat, the perforation containing some coloring matter. The particular method of marking covered by claims 7, 8, and 17 is not inventive over the prior art cited. It is stated by counsel for appellant in argument that the machinery for making such markings operates so that needles work upon rollers and that the same is patented.

[1] We do not regard it as necessary to discuss all the references, several of which show the manner of marking various articles by a series of marks.

The patent to Patton is for marking sole leather. One of the purposes of the marking in Patton was to place the trade name or the firm's name upon the leather in such repeated order that when any considerable portion of the leather was cut off, the trade name would appear thereon.

The patent to Conway is for a device for stamping or marking meats. The stamp is made up in part of pins fastened to a disk with a handle on it. The pins are so arranged that when they perforate the meat, colored marks, letters or words made by dots appear and serve the purpose of identifying the meat.

The Board said:

> Several references are cited to indicate the marking of various articles with a series of marks. Of these the patent to Patton for marking sole leather may be taken as an example. This patent discloses markings placed in series over the surface of sole leather so that however the leather may be cut up, the manufacturer's name will appear. This patent also discloses that heretofore it has been customary for manufacturers to cover sole leather with a repetition of the trade name in parallel lines or columns.
>
> The patent to Conway shows a stamping mechanism for marking meat by means of pins inked to leave the mark of the design on the meat. The patent to Naylor discloses a similar marker to be applied to stock or poultry.
>
> In view of these patents as examples of those cited, it is not apparent that there would be anything patentable in applying the markings of Conway or Naylor in rows or parallel lines or in any desired arrangement on a cut of meat so that each piece when the cut is subdivided would bear the mark of the manufacturer. Nor would there be anything patentable in the article bearing the mark or series of marks.
>
> * * * * * * *
>
> We are of the view that insofar as the mere markings of the meat are concerned they do not come within the statutory classes of invention and for the reasons pointed out we do not consider that any of the claims are patentable over the art of record.

We agree with the Board of Appeals in both of its grounds of rejection.

Appellant in this court has discussed many authorities. Among them is *In re Dixon*, 18 C. C. P. A. (Patents) 711, 44 F.(2d) 881, 402 O. G. 3. We there held that a promissory note with an attorney's fee clause and a declaration of lien written thereon was not the proper subject matter for a patent

under the patent statute and did not constitute a new and useful art, machine, manufacture, or composition of matter, or any new and useful improvements therefor.

In *In re Russel*, 18 C. C. P. A. (Patents) 1184, 48 F.(2d) 668, 410 O. G. 820, the court had under consideration a directory in which surnames were arranged phonetically and in which there was a provision for another arrangement for the given names. We held that the mere arrangement of printed matter on a sheet or sheets of paper did not constitute patentable subject matter.

In *In re Reeves*, 20 C. C. P. A. (Patents), ——, 62 F.(2d) 199, 428 O. G. 769, this court held a chart listing the characteristics of real estate in such manner as to expedite real estate assessments, etc., not to be the proper subject matter for a patent. We said there that patentability could not rest alone in novel printing arrangement.

To the same effect was our holding in respect to a duplicate postcard order and want book, *In re Clark*, 19 C. C. P. A. (Patents) 1166, 58 F.(2d) 455, 422 O. G. 608. See *In re Malcolm*, 19 C. C. P. A. (Patents) 1097, 56 F.(2d) 876, 420 O. G. 293, which involved a system of writing music.

In oral argument and in brief counsel has urged that under the case of *Cincinnati Traction Company* v. *Pope*, 210 Fed. 443, his claims should be allowed. That case is quite a famous one and may be said to be the leading case in this field. The patent involved a railway ticket comprising a body portion and a coupon, the ticket bearing conventional indications showing that the body alone was good at one time of the day and that the body and the coupon were required for the other portion of the day. The court there held that the device of the patent clearly involved physical structure and that the claims were limited to such structure.

[2] We see nothing more in appellant's alleged invention than the arrangement of printed matter upon meat. We are not impressed with the contention that the Cincinnati Traction Company case, supra, is authority for sustaining appellant's contention. On the contrary, the case is easily distinguishable from the case at bar. There the material upon which the printing appeared had a novel form, which form served a new and useful purpose. In the case at bar, the form of the meat is not in any respect made to depend upon the printing arrangement.

We think the Board of Appeals properly affirmed the Examiner's rejection of the claims, and the decision of the Board is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

BLOODHART *v.* LEVERNIER

No. 3,967. Decided April 12, 1933

INTERFERENCE—PRIORITY—RIGHT TO MAKE THE CLAIM.

Record reviewed and *Held* that L. has a right to make the claim in issue and that priority was properly awarded to him since B. alleged in his preliminary statement no date of invention prior to the filing of L.'s application.

APPEAL from the Patent Office. Affirmed.

Mr. Bernard F. Garvey for Bloodhart.

Mr. John Howard McElroy for Levernier.

HATFIELD, *J.*:

This is an appeal in an interference proceeding from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Examiner of Interferences awarding priority of invention to appellee, Martin W. Levernier.

The interference is between appellant's Patent No. 1,676,851, in which the counts originated, issued July 10, 1928, on an application filed June 25, 1927, and appellee's application No. 126,484, filed August 2, 1926.

The invention relates to liquid dispensers, particularly to portable liquid soap dispensers.

The interference involves five counts. Counts 1 and 5 are illustrative. They read:

1. A liquid dispenser, comprising a pump, a stationary part, a part rotatable with relation thereto, and supported thereby, a discharge nozzle on the rotary part in communication with said pump and movable about the axis of rotation of the rotatable part, and a manually operated means on the stationary part for operating said pump.

5. A liquid dispenser, comprising a stationary part, a member swiveled thereon, a liquid reservoir and a pump carried by said member, a nozzle carried by the reservoir and in communication with the pump, said pump including a piston rod arranged axially of the same member, and manually operated means mounted on the stationary part and having swiveled connection with said pump for operating the same.

Counsel for appellant moved to dissolve the interference on the ground that appellee had no right to make the claims constituting the counts in issue.

The issue before us, raised in the Patent Office by appellant's motion to dissolve, is does appellee's application, as originally filed, disclose "a rotatable support for the discharge nozzle" of his device?

Appellee made no reference in his original application to that feature of the involved invention. Subsequent to the issuance of appellant's patent, appellee amended his specification by inserting therein the following:

If it is desired to change the point of discharge of the soap without shifting the base, this can be effected by turning the delivery tube 54, which causes the casting 25 to turn on the top of the cap 13 and the plug 43 to turn in its opening in the cross head 39, the entire holder being thus rotatable on the standard within the substantially 180° limits caused by the contact of the tube 54 with the links 38. If a greater swiveling action is desired, I omit one of the links 38, when the tube 54 can be swung through a full 360° due to the play of the remaining link 38.

He also copied the involved patented claims, and the interference was declared.

Subsequent to the oral arguments in this court, counsel for appellee filed a motion for the issuance of a writ of certiorari directed to the Commissioner of Patents, commanding him to certify to this court a copy of a notice filed by appellee, July 13, 1931, electing to have all further proceedings conducted as provided by section 4915 of the Revised Statutes (U. S. C., title 35, sec. 63), and a copy of the Commissioner's decision, dated July 16, 1931, refusing to enter an order dismissing appellant's appeal. Counsel further moved that appellant's appeal be dismissed for the reason that the court was without jurisdiction to determine the issues raised thereby, due to the fact that appellee elected to have all further proceedings conducted as provided by section 4915, supra.

In the case of *Farmer et al.* v. *Schweyer*, 10 C. C. P. A. (Patents) 1247, 58 F.(2d) 1056, 423 O. G. 932, this court, in an opinion by Graham, P. J., reviewed the decisions in the cases of *MacGregor* v. *Chesterfield*, 31 F.(2d) 791, and *Heidbrink* v. *McKesson*, 53 F.(2d) 321, construed the provisions of sections 4911, 4915, and 4918 of the Revised Statutes (U. S. C., title 35, secs. 59*a*, 63, and 67, respectively), and, among other things, said:

Viewing these various provisions of the statute together, we are of opinion that it was not intended by the language of section 4911 to authorize the filing of a bill in equity under said section 4915 by a patentee. If a patentee is involved in an interference and is unsuccessful in the Patent Office and appeals to this court, he may not be forced to go into equity by notice of the appellee, but has a right to pursue his appeal and seek his remedy in this court. The compelling reason leading to this conclusion is that the court of equity could afford him no relief under said section 4915 even were he authorized by the law to file his bill in such court.

On the authority of that decision, the motion is overruled.

We proceed to a consideration of the case on its merits.

In his decision, sustaining appellant's motion to dissolve the interference, the Law Examiner, among other things, said:

The possibility of oscillating the delivery nozzle or any part of the structure would not be apparent from the original disclosure of the party Levernier, who failed to attribute in the original description any oscillatable character to such structure or to show in the drawings structure which is apparently oscillatable. His right to make claims 1 to 5 must be predicated upon the possibility of so loosely screwing plug 43 into the threaded opening of the vertically reciprocable casing 45, that the plug, casing container 22, and bottom casting 25 can oscillate on the base structure. Apparently if the plug is tightly screwed into the casing 45, the latter will be immovably fixed to cross bar 39, which cannot oscillate because the upright L-rods 38 are prevented from turning by the shape of openings 59 in the base. The latter manner of assembly is considered obviously the one intended and the one evidently to be used, since the casing 45 is connected to cross bar 39 for the purpose of reciprocating it by up and down movement of L-rods 38.

In its decision, reversing the decision of the Law Examiner, the Board of Appeals, in describing the rotatable support for the discharge nozzle, which, among other things, includes a reservoir, a pump, and the necessary parts and attachments for making the same operable, and in applying the involved counts thereto, among other things, said:

This unit comprises a lower closure member 25 for the soap container which is provided with a cylindrical extension and a circular skirt adapted respectively to be mounted in a cylindrical sleeve and to engage a horizontal surface on a cap which surmounts the supporting column of the devise. These parts appear incapable of preventing rotation and it seems reasonable to assume that they were given the form stated to render the member 25 readily rotatable. The container proper is mounted on the part 25 and is clamped between it and a cap member 29, the parts 25 and 29 being screwed to the barrel of the dispensing pump and to a sleeve extending therefrom. Slidable axially in the part 29 is a filler and plunger operating extension the filler opening of which is plugged by a shouldered cap screw. The discharge nozzle is mounted in the extension and moves axially therewith. Axial movement of the extension is effected by pressure indirectly applied to the cross head 39 through which the cylindrical shouldered portion of the cap screw passes. The only apparent means for preventing rotation of the unit described is the cap screw and this can only prevent it if the shouldered cylindrical portion is shorter axially than the thickness of the cross head 39. The only apparent reason for shouldering this member and providing the shouldered portion with a cylindrical surface is to prevent such a clamping being accidentally effected. We see no necessity for screwing this plug loosely in place to make the parts relatively rotatable though even if unshouldered it would be difficult to turn the plug sufficiently to clamp the parts by engaging the knurled surface thereof with the fingers.

Due to the fact that the date alleged in appellant's preliminary statement for conception of the invention was subsequent to the filing date of appellee, and it having been held by the Board of Appeals that appellee could make the claims constituting the counts in issue, the Examiner of Interferences awarded priority of invention to appellee.

On appeal by appellant from the decision of the Examiner of Interferences, the Board of Appeals again fully considered and discussed the issues now before us. In concluding its discussion of appellee's original disclosure, the Board said:

The mounting provided for the reservoir in Levernier's disclosure is made separate from the fixed support, is provided with an annular rib resting on the fixed support and has a central stem clearly shown to be cylindrical as it must be to fit the recess and extension in the column caps which are described as tubular. In our opinion the disclosed structure inherently involves rotatability of the liquid container and parts carried thereby.

Does appellee's amendment involve any material addition to, or variance from, the original application? If, after a careful scrutiny of the original application, that question must be answered in the affirmative, the decision of the Board of Appeals must be reversed. An applicant is not entitled, by amendment, to so enlarge the scope of an original application as to enable him to appropriate the inventions of others. *Railway Co.* v. *Sayles*, 97 U. S. 554; *Lindley* v. *Shephard*, 58 App. D. C. 31, 24 F.(2d) 606, 370 O. G. 513, and cases cited; *Lopulco Systems* v. *Bonnot Co.*, 24 F.(2d) 510. If, however, such rotatable feature is inherent in the structure and use of the apparatus disclosed and claimed in appellee's original application, or if it is otherwise clearly disclosed therein, appellee is entitled to make the involved counts, and the decision of the Board of Appeals must be affirmed.

We have given the issues, the arguments of counsel, and the decisions below careful consideration. The record contains two comprehensive and obviously carefully prepared decisions by the Board of Appeals, and we find ourselves in complete accord with its conclusions. We have but one observation to make in addition to what has been said by the Board.

It will be observed that the involved counts refer to "a manually operated means on the stationary part for operating said pump." That means, however, is not the only one disclosed in appellee's original application by which the pump may be operated. He stated therein that it might be operated by the application of pressure either to the foot pedal or to the "plug" or "cap screw," described in the decisions of the Board of Appeals.

To properly operate appellee's apparatus by the application of pressure to the "plug" or "cap screw," rather than by the use of the foot pedal, some "play" between the "plug" or "cap screw" and the cross head would seem to be desirable, because, without it, considerably greater pressure would obviously be required. The "shouldered cylindrical bearing surface" of the "plug" or "cap screw," clearly disclosed in appellee's drawings and referred to by the Board of Appeals, but evidently overlooked by the Law Examiner, provided the necessary

"play" and prevented the clamping of those members. Although the "plug" or "cap screw" was not fully described in appellee's specification, it is obvious that its "shouldered cylindrical bearing surface" was essential to the proper performance of its functions, and that the disclosure in the drawings of such bearing surface was not accidental. Furthermore, the drawings may properly be used as an aid in interpreting the specification. *Permutit Co. v. Graver Corp.*, 284 U. S. 52, 60, 413 O. G. 1099.

We are of opinion that the rotatable feature of the involved invention is inherent in the structure and use of the apparatus disclosed in appellee's original application, and that the amendment thereto does not involve any material addition to, or variance from, it, and that, therefore, appellee is entitled to make the counts in issue.

The decision is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE POMEROY

No. 3,104. Decided April 24, 1933

PATENTABILITY—APPARATUS FOR SUPPRESSING SURGES IN HYDRAULIC SYSTEMS.

Claims for an apparatus for suppressing surges in hydraulic systems *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Warfield, Fraser & Brown and *Mr. Donald L. Brown* for Pomeroy.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GARRETT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Examiner rejecting all claims of appellant's application, Serial 178,644, for "Method and apparatus for suppressing surges in hydraulic systems." Only apparatus claims are presented in the appeal.

It is stated in the specification that the invention—

relates to an apparatus for suppressing surges in hydraulic systems, * * * particularly in pipe lines which are in high duty service such as conveying oil in the crude or refined states. * * *.

The brief of appellant contains an interesting statement as to the production of "surges" in oil pipe lines. The piston of the oil pump impresses great velocity upon the "pressure wave," and it is stated that:

Where there is a bend in the pipe line, or where the pipe line is closed, these pressure waves strike against the bend or end of the pipe and are reflected back toward the piston. When the piston is operating at such speed that the reflected wave reaches the piston head co-incidentally with the creation of a new pressure wave by the piston, the combined effect of the two waves is to create a substantially increased pressure surge in the system.

The suppression of such surges is the problem which appellant claims to have solved by his device which is broadly described in the statement of the Examiner as follows:

* * * the alleged invention relates to the positioning of an air cushion chamber at a point in a hydraulic system which is subjected to pressure impulses at the points in said system where the loops of the pressure impulse are apt to arise, the said chamber being provided with means for replenishing the air supply in the chamber. More specifically, the air chamber comprises a secondary air chamber in the nature of a float valve therein. * * * The base of the primary chamber comprises a seat to receive a valve head which is located at the bottom of the secondary chamber to shut off communication between the pipe line and air chambers when the system is quiet. When a surge occurs the valve is opened, the fluid compressing the air in the primary chamber acting in turn on the air within the secondary chamber through the openings at the top of the chamber.

Claim 14 appears to be a typical one and is here quoted:

In a hydraulic system, the combination with a pipe line, subject to the transitory building up of pressure impulses, of a chamber having fluid communication at its lower end with said pipe line at a point substantially where a loop in said pressure impulse may arise, means for supplying a gaseous medium under pressure to said chamber, and a float within said chamber having a substantially unimpeded vent-like orifice at its upper end and a tubular connection leading therefrom to a point adjacent the lower end whereby liquid which may leak into the float is discharged from the orifice upon a material fall of the external pressure.

Other claims emphasize, or are more specific to, particular features, such as the float construction with reference to air flow, compressed-air tank and air supply means generally, and other limitations which do not require particularity of description.

The rejection by the tribunals of the Patent Office was based upon alleged lack of patentability over the prior art, the references cited being: Cregier, 359,315, March 15, 1887; and Haniel et al. (German), 222,802, June 3, 1910. York, 1,342,491, June 8, 1920. "The Theory of Wave Transmission," by George Constantinesco, published in 1922 in London, England, by Walter Hoddon, 182 Salisbury Square, E. C. 4. Pages 10 and 11, including Figure 5.

The Cregier patent relates to "pressure-regulator for water-supply mains" and that of York to "water-submerged air-chamber for water-pipes." The specification of the former states that it is—

to provide against the effects of the ram or pulsations due to the flow of water or other fluids in mains or pipes for the water-supply of cities and towns, and other purposes.

Among the objects of the latter is—

to provide a more sensitive and efficient device for absorbing hydraulic impacts * * *.

These references were cited, as we understand the decisions below, principally to show the state of the art and not because of any structural features claimed to be anticipatory of appellant's combination. They show, among other things, certain modes of controlling air pressure in a container.

The pages from Constantinesco's book were cited, according to the brief of the Solicitor for the Patent Office,

merely to show that it was known that stationary zones of pressure would occur in hydraulic systems.

The specification of the Haniel et al. patent states that its object is—

an air vessel with an arrangement which prevents the escape of air from the air vessel in the event of a great decrease in pressure in the pipe line,

and gives a description of operation as follows:

As long as the air vessel is sufficiently filled with water (F indicates the water level in this case) the buoyancy of the float keeps the valve C automatically open, the water can accordingly through the valve opening of C be collected in the air vessel or delivered again. If however the water level sinks so far that the weight of the float exceeds the residual buoyancy of the same, and that in consequence of the circumstance that the water weight pocket emerges from the surface of the liquid the weight of the amount of water in the pocket E will increase the combined weight of the valve C and its float. In so doing the valve closure will be effected before so much water can pass out of the air vessel that the air too can flow off through the pipe line B.

If the pipe line B, however, receives a higher pressure than that which prevails in the air vessel A then the water will at once lift the valve C with its accessories, and the level of the water which may have fallen for example to G in the air vessel will rise again.

It was held by the tribunals of the Patent Office that the structure of the Haniel et al. device, in all essential principles, anticipates that of appellant, and that since Constantinesco teaches that stationary zones of pressure occur in hydraulic systems it would be obvious to place the Haniel et al. device at the points in the pipe-line system where such zones of pressure occur.

It may be here stated that the Haniel et al. specification and claim make no reference to any hydraulic art other than water-supply mains or water pipe lines. The *specification* of appellant makes particular reference to oil pipe lines, but the *claims* are not limited to oil, and do not eo nomine mention oil.

It seems to be true, as stated in appellant's brief, that Constantinesco's primary object is to teach—

that waves, * * * may be propagated through a fluid in a pipe line by means of a suitable pump in such a way as to transmit power to motors connected with the lines at a distance.

Nevertheless, it is not disputed that he does teach that stationary zones of pressure occur, and this is all that his work was cited for. It is not claimed that his disclosure "would help anyone to solve the problem of surge-suppression," except as it teaches the existence of the condition named.

It seems to us that appellant's case must turn upon a comparison of the structural features, in the combination arrangement made by him, with the structural features of Haniel et al., as combined in the latter, and in determining patentability it is necessary to bear in mind the familiar principle that the claims are the proper measure of an applicant's invention.

Appellant epitomizes his contentions as follows:

It is appellant's position (a) that the structure disclosed by Haniel differs substantially from the structure defined by the claims in issue; (b) that there is no indication in either Haniel or Constantinesco that the disclosures of these two references can or should be combined; (c) that Haniel's device cannot be affixed to a system such as shown by Constantinesco without rendering the device inoperative; and (d) that even if Haniel's device could be affixed to the Constantinesco system to operate as a surge-suppressor, it would involve invention and justify the issuance to applicant of the claims here in issue to determine where the device was to be combined with the Constantinesco system.

The record contains an affidavit by Dr. Harold Horton Sheldon, professor of physics at New York University, in support of appellant's application, which we have examined with great care. This affidavit is in support of the argument made by the appellant as to the Haniel et al. device being intended to operate in water-supply systems wherein a different phenomenon is dealt with than that "dealt with in connection with the Pomeroy invention." It is stated in the affidavit that:

The Haniel and Lueg device considered in the light of the disclosures of their patent is, in my opinion, intended to serve only as an ordinary air-chamber without thought of dissipating large amounts of energy. This conclusion is based mainly on the structural features disclosed in the Haniel and Lueg drawing, in which the air chamber is shown as provided with a float merely for the purpose of controlling the air-chamber outlet valve with the ordinary rise and fall of the liquid level. The float is shown as constructed of thin sheets of metal. If, therefore, an extraordinary or steep compressional impulse were applied to the Haniel and Lueg device, the float in my opinion, would collapse and would not stand up in a service where such surges arise, such as the Pomeroy invention is designed to overcome.

There is no disposition on our part, nor does there seem to have been any disposition on the part of the tribunals of the Patent Office, to question the veracity or accuracy of Dr. Sheldon's affidavit, but the great difficulty for appellant is that the affidavit comprises, in the main, only opinions and there is no statement of fact as to patentable differences in the principles of the conflicting structures.

It is argued by appellant that Haniel et al. provide a small float, while appellant provides a large one. This may be, but the claims of neither Haniel et al., nor appellant, show anything as to the sizes of the respective floats. It is alleged also that the Haniel et al. device "would not stand up in service" in an oil pipe line, but appellant's claims, like the claims of the reference, show nothing as to any particular strength, nor is there anything in appellant's claims to show any structural features, or combination of features, which would produce a stronger device than that of the reference. It properly may be remarked that generally there is no invention in making a device strong enough to perform the function for which it is designed—that is, there is no invention in merely producing strength. We must look to the structure which produces it and determine whether invention lies there.

As to appellant's argument, "(*b*)," relative to the impropriety of combining Haniel et al, and Constantinesco, that seems to be fully answered by the statements heretofore made as to the purpose of the latter's citation.

We have given close attention to the argument that the device of Haniel et al. "affixed to a system such as shown by Constantinesco" would result in inoperativeness of the device. That the Haniel device would not affect the result which Constantinesco discussed—the transmission of power through the instrumentality of waves in hydraulic systems—may be conceded. Neither would appellant's device do that. Neither Haniel et al., nor appellant, sought any such result. We assume that appellant must mean that Haniel et al. would be inoperative to perform the function of surge suppression. We can only reiterate that, testing the question of invention by the contents of the claims, no facts appear which would justify our so holding.

The last argument, that it required invention to produce appellant's device, even conceding the workability of Haniel et al. applied to Constantinesco, is answerable, as are the other arguments. There are no structural differences (the respective claims being always looked to for the test) which distinguish the conflicting devices in a patentable sense, and we cannot disagree with the soundness of the observations of the tribunals of the Patent Office to the effect that it would be obvious to locate the device at the point where its utility is effective.

The decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE MCPHERSON

No. 3,061. Decided April 24, 1933

PATENTABILITY—COWL VENTILATORS.

Claims for a cowl ventilator *Held* patentable over the prior art.

APPEAL from the Patent Office. Reversed.

Mr. Carl T. Mack, Mr. Royce A. Ruess, and *Mr. J. H. Weatherford* for McPherson.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GARRETT, *J.:*

This appeal involves a number of claims which appeared in appellant's application, Serial No. 243,234, filed in the United States Patent Office December 29, 1927, for patent on "Improvements in cowl ventilators." It appears that some twenty-four of the claims of the application stand allowed, but those here involved were rejected by the Examiner for want of invention in view of the prior art. The decision of the Examiner was affirmed by the Board of Appeals and from the latter decision appeal was taken to this court.

There are certain incidental questions which require preliminary determination.

First. A few days prior to the date upon which the cause came on for hearing before this court, appellant filed a motion which was formally presented upon the day the case was argued, saying that appellant, by his attorney,

> moves and requests that the final hearing * * * be indefinitely postponed; and that the application which constitutes the subject-matter of said appeal be remanded to the Primary Examiner.

Sixteen reasons or arguments were set forth in support of the motion and request, the first of them opening with the statement:

> That, subsequent to the perfection of said appeal, the Patent Office, on December 19, 1932, declared a three-party interference, No. 64,678, involving appellant's application now under appeal, and Letters Patent issued to one Townend, No. 1,813,645, and an application of Robert G. Breese et al.

Substantially all the other "reasons" comprise arguments based upon the fact of the declaring of the said interference, the papers, reciting the action leading up to and including its declaration, being filed as a collective exhibit to the motion. These arguments need not be recited in detail. In substance, it is insisted that the declaration of interference indicates a change of opinion on the part of the Examiner as to the proper construction of appellant's appealed claims and that, under what appellant reasons must now be the Examiner's construction, they are patentable.

An examination of the exhibit referred to discloses that the application here upon appeal is involved in the interference declared, jurisdiction of same having been, on November 4, 1932, allowed the Examiner by the Commissioner of Patents, "for the purpose of adding to it an interference now pending." The request of the Examiner states:

> The subject matter involved in the proposed interference will in no way conflict, or disturb the subject matter or question involved in the appeal.

While, however, the *application* is in the status described, no one of the *claims* before us on appeal is in the interference, nor, so far as we can determine, is any one of the twenty-four claims which stand allowed so involved. The interference was declared upon request of appellant upon two claims which he copied from the Townend patent, consideration being refused by the Examiner to other submitted claims, "as this case is closed for general prosecution before this Office." Some of these claims so refused consideration appear to be quite similar to certain of the claims which stand allowed to appellant, but no close scrutiny of them appears to be here necessary since they are in no way involved.

Nothing indicating any change of opinion upon the Examiner's part appears from the record, and there is no acquiescence by the Solicitor for the Patent Office in the correctness of appellant's deductions as to the construction which the Examiner would now give the claims.

Under this state of facts the court must deny appellant's motion and request (taken under advisement at the hearing) that the final hearing be indefinitely postponed and the application remanded to the Primary Examiner.

Whether we have any authority to make an order so remanding the application is a question concerning which no opinion is here expressed. Assuming, without holding, the authority to exist there is no state of facts here which justifies its exercise.

The second preliminary matter relates to a claim numbered 43. It was one of those disallowed by the Examiner and hence was included in the affirmation of his decision by the Board of Appeals.

Appellant sought a rehearing from the Board and in his petition stated:

> Claims 34, 43, 44, 46, 47 and 48 are withdrawn.

In the opinion of the Board denying reconsideration there is no reference to the withdrawal.

In taking the appeal to this court, appellant stated:

> Claims 34, 44, 46, 47 and 48 are withdrawn.

Claim 43 is printed in the record as one of the rejected claims, in accordance with paragraph 3 of rule 26 of this court, and is included as one in the brief of the Solicitor for the Patent Office who makes no objection to its consideration by us.

In view of the foregoing facts we feel constrained to hold that the withdrawal of claim 43 was inadvertently made and that it is properly before us for consideration.

Turning now to the merits of the case, we quote claims 39 and 45 as illustrative:

> 39. In an air plane, having radial engine cylinders, a nose, a cowl forming a continuation thereof, extending rearwardly therefrom to said cylinders and thence outwardly and rearwardly to a stream line junction with the fuselage of said plane, said cylinders projecting through said cowl; and an auxiliary cowl surrounding said cylinders and annularly spaced at its front and rear ends from said inner cowl.
>
> 45. In an airplane powered by an engine having cylinders with cooling fins thereon; cooling means including a nose, an inner cowl, around said engine, forming a rearward continuation of said nose, and an outer cowl open at both ends, surrounding and spaced from said inner cowl to provide a passageway for cooling air therebetween, the cylinders of said engine projecting outward through said inner cowl into the air passageway between said cowls, whereby air may be smoothly diverted past said cylinders to cool them.

The references cited are: Magni, 1,611,658, December 21, 1926; (French) Deperdussin, 470,088, June 8, 1914; (French) Lenoir et al., 599,469, October 20, 1925; Jane's All the World's Aircraft, 1924 edition, pp. 98b, 248b.

Appellant's brief gives a quite satisfactory nontechnical description of his disclosure as follows:

> Appellant's application discloses a structure for cooling the cylinders on an airplane. It comprises an inner cowl which extends from the airplane body forwardly to the propeller and through which the engine cylinders project. An outer cowl is concentric with and spaced from the inner cowl and forms therewith a passage for air. The air serves to cool the engine cylinders. In other words, the cylinders are arranged in an air passage. This passage guides air around the cylinders to cool them; the passage being formed by an inner cowl which is merged into the fuselage and by an outer cowl which is adjusted to vary the amount of air which flows around the cylinders and regulates the cooling effect. By means of the double cowling, a smooth passageway is established in which the cooling of the cylinders is accomplished and a minimum resistance to air flow is set up.

Appellant's brief further states:

> Applicant believes that he is the first to recognise the enormous advantages arising from the use of two cowlings around a radial engine in an airplane. The inner of these cowlings he uses to smooth up the flow around the engine crank case and immediately adjacent parts, and to direct the air flow against the outer ends and heads of the cylinders; and the outer cowl to surround these cylinders and prevent the turbulence set up by the cylinders from being communicated to the main body of air passing the structure.

It is apparent to us that no one of the references discloses a structure which in itself bears much resemblance to the specific portion of appellant's structure that is at issue here. There is no indication in the specifications of Deperdussin and Lenoir that either of them was seeking an air cooling arrangement for their engines.

In the case of *In re Dann*, 18 C. C. P. A. (Patents) 1031, 1034, 47 F.(2d) 856, 409 O. G. 7, we said:

> Foreign patents may not be measured as anticipatory by what may be made out of them, but only by what is clearly and definitely expressed in them. *In re Gillam*, 17 C. C. P. A. (Patents) 877, 37 F.(2d) 959.

Lenoir does not teach the use of a cowl, and the streamline effect shown in a part of his structure is not a controlling feature in appellant's application, as we view the case.

Deperdussin shows a cowling surrounding the engine whose cylinders project therethrough, and over the upper set of cylinders there is a shield which the Examiner apparently regarded as an outer cowling, or the equivalent of one. The other cylinders have no such shield. This shield was obviously not intended to perform the function of a cowl—certainly no such function as is intended by appellant's outer cowl. Studying it in its arrangement in the drawing (the translation of the Deperdussin specification makes no reference to it), we do not feel that it can perform the same function with reference to the smooth passage of air over the cylinders and through the outlet which appellant's arrangement performs. It is noted that the decision of the Board of Appeals makes no reference to Deperdussin.

The Jane publication is declared to be cited only to show that it is not uncommon for engine cylinders to project through cowlings.

The principal reference, Magni, shows an outer casing or cowl into which air enters through a hole designed, apparently, for that purpose. The nose of the fuselage, which is within the casing, is of a shape which causes the formation of an annular passage between it and the cowl through which hole the air is passed over the cylinders and out through outlet apertures. In effect, in Magni, the engine itself is the part which takes the place of appellant's inner cowl in forming at least a major portion of the passage through which the air flows for cooling the cylinders. The record indicates that by reason of the irregular contour of the Magni engine, there is much greater drag in Magni's air passage than in that of appellant's with its streamlined inner cowl.

There is no questioning here of the fact that appellant has made an improvement of importance in the art to which his device belongs, nor can it be seriously questioned, we think, that he has obtained a result in this art better than any obtained by the references cited. It is not possible to combine the features of the references and thereby produce the result which appellant obtains without very materially modifying those features. Indeed, the idea of the double cowl for air cooling purposes is not expressed or disclosed in them, nor is it, we think, present in them, or in any unmodified combination of them. What appellant did may seem simple enough after it is done, but no one else did it.

In view of these facts, we feel constrained to differ with the tribunals of the Patent Office upon the question of patentability and to hold that there is, at least, a doubt which should be resolved in appellant's favor. Vide *In re Dann*, supra, and *In re Symonds*, 18 C. C. P. A. (Patents) 1128, 47 F.(2d) 972, 410 O. G. 7, with their included citations.

The decision of the Board of Appeals is reversed as to the claims here involved.

Reversed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,247,540, 1,247,542, Re. 15,140, W. Jones, Purification of sewage and analogous liquids; 1,282,587, same, Apparatus for the purification of sewage and analogous liquids, filed June 24, 1933, D. C., E. D. Wis. (Milwaukee), Doc. 4114, *Activated Sludge, Inc.* v. *Sewage Commission of City of Milwaukee, Wis.*

1,247,542. (See 1,247,540.)

1,260,766, E. J. Granger, Folding and plaiting machine, filed June 13, 1933, D. C. Minn., 4th Div., Doc. E 2718, *E. J. Granger* v. *M. Gellman, et al.* Same, filed June 22, 1933, D. C., N. D. Ohio, E. Div., Doc. 4698, *E. J. Granger* v. *J. Finn et al.* (*Diamond Candy Co.*).

1,282,587. (See 1,247,540.)

1,325,980, L. Freuder, Lithography, filed June 20, 1933, D. C., S. D. N. Y., Doc. E 76/138, *L. Freuder* v. *Morgan Lithograph Co., et al.*

1,379,855, J. Donner, Cream depilatory, filed June 21, 1933, D. C., S. D. N. Y., Doc. E 76/141, *J. Donner* v. *H. Kestenbaum et al.* (*Peck Mfg. Co.*).

1,380,643, S. Eagle, Wrench, D. C. Oreg. (Portland), Doc. E 9154, *S. Eagle et al.* v. *P. & C. Hand Forged Tool Co.* Dismissed May 29, 1933.

1,440,163. (See Re. 18,852.)

1,470,524, H. B. Burt, Process of making frozen confection, 1,505,592, F. W. Epperson, Frozen confectionery, filed June 21, 1933, D. C., N. D. Calif. (Sacramento), Doc. 1153–L, *National Popsicle Corp. et al.* v. *W. Miller et al.*

1,486,883, E. P. Halliburton, Method of hydrating cement and the like; 1,500,385, same, Method of and apparatus for mixing materials, D. C., N. D. Tex. (Ft. Worth), Doc. E 732, *E. P. Halliburton et al.* v. *Rhoads Drilling Co.* Patents held valid and infringed (notice June 22, 1933).

1,500,385. (See 1,486,883.) 1,505,592. (See 1,470,524.)

1,510,665, E. Frisch, Waxed wrapping paper and method of making same, D. C. Minn., 4th Div., Doc. E 1521, *E. Frisch* v. *Refert Baking Co.* Consent decree dismissing cause without prejudice June 21, 1933.

1,514,851, F. L. Gormley, Speed control for revolving doors, filed (notice dated June 20, 1933), D. C., E. D. N. Y., Doc. —, *Van Kannel Revolving Door Co.* v. *General Bronze Corp.*

1,534,478, W. J. Wiswall, Manifolding book, D. C., S. D. Ohio, W. Div., Doc. E 274, *American Sales Book Co., Ltd.* v. *The Reynolds & Reynolds Co.* Discontinued June 20, 1933.

1,569,413, A. Weingaertner, Weather strip for windows, D. C., E. D. Mo. (St. Louis), Doc. 8918, *W. J. Moslank* v. *D. Kulage et al.* Bill dismissed; counter-claim in favor defendant, D. Kulage Mar. 23, 1931.

1,577,238, W. Katz, Hat, filed June 17, 1933, D. C., S. D. N. Y., Doc. E 76/133, *W. Katz* v. *The F. H. Lee Co.*

1,597,129, L. L. Watters, Ben-pan cleanser and sterilizer, appeal filed June 16, 1933, C. C. A., 2d Cir., Doc. 12816, *L. L. Watters et al.* v. *The Kny-Scheerer Corp.*

1,622,957. (See Re. 18,852.)

1,673,639, J. Poole, Bank counter, D. C., N. D. Ohio, E. Div., Doc. E 4258, *Clear Vision Counters, Inc.* v. *The Cleveland Trust Co.* Dismissed June 24, 1933.

1,736,889, W. F. Smith, Sign, D. C., S. D. Calif. (Los Angeles); Doc. E V–70–M, *W. F. Smith et al.* v. *City of Los Angeles, Calif.* Decree for defendant, bill dismissed June 21, 1933.

1,751,991, J. F. Gilkerson, Cushion shoe, filed June 22, 1933, D. C., E. D. Wis. (Milwaukee), Doc. 4118, *J. F. Gilkerson* v. *Rohn Shoe Mfg. Co.*

1,785,326, H. B. Rugg, Method of and apparatus, for utilising phase-changeable material, D. C. Dela., Doc. E 995, *Rudd Patents Corp. et al.* v. *Dryice Corp. of America.* Consent decree dismissing bill without prejudice June 19, 1933.

1,789,949, A. Georgiev, Electrolytic cell; 1,815,768, same, Electrolyte, filed June 20, 1933, D. C., S. D. N. Y., Doc. E 76/136, *Aerovox Corp.* v. *Dubilier Condenser Corp. et al.* Doc. E 76/137, *Aerovox Corp.* v. *P. R. Mallory & Co., Inc.*

1,815,768. (See 1,789,949.)

1,820,293, R. F. Albert, Garment, filed June 21, 1933, D. C., S. D. N. Y., Doc. E 76/143, *R. F. Albert* v. *Corona Undergarments Co. Inc.* Doc. E 76/144, *R. F. Albert* v. *Weisman Bros., Inc.*

1,867,116, Thornhill & Rohr, Cover for hand bags, filed June 21, 1933, D. C., S. D. N. Y., Doc. E 76/142, *The Virginia Art Goods Studios, Inc.*, v. *Robbins & Wells, Inc.* Same, filed (notice received June 23, 1933), Supreme Ct., District of Columbia, Doc. —, *The Virginia Art Goods Studios, Inc.*, v. *The Palais Royal, Inc.*

1,891,207, S. Ruben, Electrolytic condenser, filed June 21, 1933, D. C., E. D. N. Y., Doc. E 7002, *Ruben Condenser Co. et al.* v. *Aerovox Corp.*

1,894,612. (See Re. 18,852.)
Re. 15,140. (See 1,247,540.)
Re. 17,398. (See Re. 18,852.)
Re. 18,841. (See Re. 18,852.)

Re 18,852 (of 1,622,957, and Re. 17,398), J. Mayer, Hair waving appliance and method; Re. 18,841, same, Hair waving method; 1,894,612, same, Hair waving apparatus; 1,440,163, E. Martin, Method for producing permanent waves in hair, filed June 21, 1933, D. C., N. D. Ohio, E. Div., Doc. E 4697, *The Philad Co., et al.* v. *Real Art Permanent Wave Machine Co., Inc., et al.*

Des. 85,815, G. H. Curtiss, Tow car and trailer combination; Des. 85,816, same, Trailer vehicle, D. C., S. D. Fla. (Miami), Doc. —, *Curtiss Aerocar Co., Inc.*, v. *Harris & Schafer, Inc.* Patents held valid and infringed June 16, 1933.

Des. 85,816. (See Des. 85,815.)

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 15, 1933

[VOL. 433. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

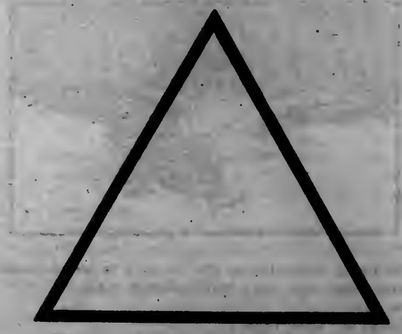
Raw or Partly-Prepared Materials

Ser. No. 332,925. NATIONAL PIGMENTS & CHEMICAL COMPANY, St. Louis, Mo. Filed Dec. 9, 1932.

FOAM A

For Barytes.
Claims use since December, 1906.

Ser. No. 338,477. ATKINS & DURBROW, INC., New York, N. Y. Filed June 8, 1933.



For Peat Moss Used as Poultry Litter, Stable Bedding, Hoof Stuffing, and by Nurserymen, Florists, and Gardeners.
Claims use since November, 1923.

Ser. No. 339,376. ALBERHILL COAL & CLAY CO., South Pasadena, Calif. Filed June 20, 1933.



For Prepared Clay.
Claims use since May 29, 1933.

Ser. No. 339,494. GOTTESMAN AND COMPANY, INCORPORATED, New York, N. Y. Filed July 5, 1933.

ANCHOR



For Wood Pulp.
Claims use since June 1, 1932.

Ser. No. 339,495. GOTTESMAN AND COMPANY, INCORPORATED, New York, N. Y. Filed July 5, 1933.

CLIFF



For Wood Pulp.
Claims use since June 1, 1932.

Ser. No. 339,496. GOTTESMAN AND COMPANY, INCORPORATED, New York, N. Y. Filed July 5, 1933.

POLAR

C

For Wood Pulp.
Claims use since June 1, 1932.

Ser. No. 339,497. IDEAL FOOD PRODUCTS CO. INC., Omaha, Nebr. Filed July 5, 1933.

Ideal

IYc

For Hops.
Claims use since 1919.

CLASS 2

Receptacles

Ser. No. 339,513. THE AMERICAN PAPER GOODS COMPANY, Montclair, N. J., and Kensington, Berlin, Conn. Filed July 6, 1933.



For Paper Bags and Drinking Cups Composed Wholly or in Part of Paper.
Claims use since January, 1932.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 296,999. THE ATLANTIC REFINING CO., Philadelphia, Pa. Filed Mar. 8, 1930.

ATLANTIC
Safety-Kleen

For Liquid Dry Cleaner.
Claims use since July, 1928.

Ser. No. 297,046. THE ATLANTIC REFINING CO., Philadelphia, Pa. Filed Mar. 8, 1930.

Safety-Kleen

For Liquid Dry Cleaner.
Claims use since July, 1928.

Ser. No. 331,852. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed Nov. 3, 1932.



The lining appearing on the drawing is for purposes of shading only, and does not represent color.
For Soap.
Claims use since 1894.

Ser. No. 335,707. SAMPSON BLACHER, doing business as Sampson Chemical Co., Chicago, Ill. Filed Mar. 16, 1933.

Carnation
White

No exclusive right is claimed in the word "White" apart from the mark as shown.
For White Shoe Dressing.
Claims use since Nov. 1, 1931.

Ser. No. 337,494. WESTERN CHEMICAL COMPANY, St. Joseph, Mo. Filed May 4, 1933.

KON-O-ME

For Cleaner in Powder Form for Use in Cleaning Dishes, Walls, Woodwork, Floors, Metal Surfaces, and Clothes.
Claims use since Jan. 5, 1931.

Ser. No. 337,717. THE WINDO-SHINE CO., Bonner Springs, Kans. Filed May 11, 1933.



The drawing is lined to indicate green color. No claim is made to any of the words appearing on the drawing with the exception of the letters "M-D", apart from the association.
For Liquid Cleaning and Polishing Preparation for Use in the Cleaning and Polishing of Glass, Enameled or Other Surfaces.
Claims use since Apr. 1, 1933.

Ser. No. 338,338. NEWELL W. ROBERTS, South Orange, N. J. Filed May 29, 1933.

REGAL
DRY
CLEANER

No claim is made to the use of the words "Dry-Cleaner" apart from the trade-mark shown on the drawing.
For Dry-Cleaning Fluid.
Claims use since September, 1932.

Ser. No. 338,893. ARCTIC BEAR LABORATORIES, INC., New York, N. Y. Filed June 16, 1933.

ARCTIC
BEAR

For Shaving Cream.
Claims use since May 26, 1933.

Ser. No. 339,446. THE BELL COMPANY, INC., Chicago, Ill. Filed July 3, 1933.

MAGIC
MIST

For Preparation for Cleaning Windows, Mirrors, Glassware, Crystal, Auto Windshields and Headlights, Tile and Porcelain and Like Surfaces.
Claims use since May 6, 1933.

CLASS 5

Adhesives

Ser. No. 338,878. RESEARCH ASSOCIATES, New York, N. Y. Filed June 15, 1933.

STAND
PAT

For Composition for Preventing Rugs and the Like from Slipping.
Claims use since May 26, 1933.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 325,880. THE RHEUMA COMPANY, Buffalo, N. Y. Filed Apr. 7, 1932.

RU-MA

For Treatment for Rheumatic Fever, Muscular Aches and Pains and Gout, and an Analgesic, Antipyretic, Laxative, and Diuretic.
Claims use since Dec. 24, 1929.

Ser. No. 328,266. DONAHOE'S INC., Pittsburgh, Pa. Filed June 24, 1932.

Kold Aire

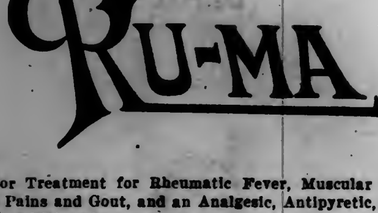
For Solidified Gases Used as Refrigerants—Namely, Solidified Carbon Dioxide.
Claims use since June 6, 1932.

Ser. No. 333,697. AKTIEN GESELLSCHAFT FÜR PHARMAZEUTISCHE PRODUKTE, Lucerne, Switzerland. Filed Jan. 6, 1933.

Dismenol

For Pharmaceutical Preparation for Treatment of Menstrual Pains.
Claims use since July 21, 1932.

Ser. No. 334,465. CHARLES H. LEWIS, New York, N. Y. Filed Jan. 30, 1933.



ZONO-KLOR

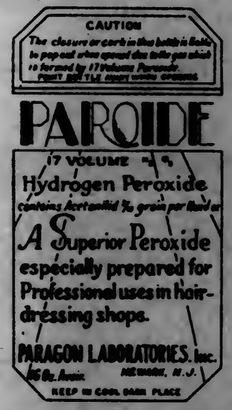
For Disinfectants, Insecticides, Bactericides, Fungicides and Germicides in Crystal or Cube Form.
Claims use since January, 1928.

Ser. No. 335,645. A. RIEBECK'SCHE MONTANWERKE AKTIENGESELLSCHAFT, Halle (Saale), Germany. Filed Mar. 14, 1933.

Montanilla

For Hard Waxes Such as Montan Wax, Carnauba Wax, and Candelilla Wax, Raw or Bleached.
Claims use since Aug. 30, 1929.

Ser. No. 336,095. PARAGON LABORATORIES, INC., Newark, N. J. Filed Mar. 25, 1933.



All the wording appearing on the drawing with the exception of the words "Paroide" and "Paragon Laboratories, Inc." and the representation of the label are disclaimed apart from the mark as shown.
For 17 Volume Hydrogen Peroxide for Professional Uses in Hairdressing Shops.
Claims use since Oct. 20, 1928.

Ser. No. 337,776. B. L. CORLEY, San Francisco, Calif. Filed May 13, 1933.



The word "Kleen" when used separate and apart from the other features of the mark as shown on the drawing, is hereby disclaimed.
For Tooth Powder and Antiseptic Solution.
Claims use since Apr. 15, 1933.

Ser. No. 337,807. SOCIÉTÉ SACOA, Paris, France. Filed May 13, 1933.

THO-RADIA

For Toilet Preparations—Namely, Face Creams, Powders, and Paints.
Claims use since Nov. 29, 1932.

Ser. No. 337,944. BURNETT'S, INC., Newark, N. J. Filed May 18, 1933.



The drawing is lined to represent the colors red and yellow.
For Cod Liver Oil Bird Food, Parrot Tonic, Bird Wash, and Bird Tonic.
Claims use since Feb. 1, 1933.

Ser. No. 338,103. NORTH AMERICAN BREWING COMPANY, Brooklyn, N. Y. Filed May 22, 1933.

Imperial

For General Tonic for Strengthening the System.
Claims use since April, 1924.

Ser. No. 338,188. THE ETA COMPANY, Chicago, Ill. Filed May 23, 1933.

ETA

DIET SYSTEM

The words "Diet System" are disclaimed apart from the other features of the mark shown on the drawing.
For the Following Concentrated Foods in the Nature of Pharmaceutical Preparations Derived from Vegetables and Effective in Correcting Nutritional Deficiency—Namely, Concentrated Food Sodium, Concentrated Food Potassium, Concentrated Food Magnesium, Concentrated Food Iron, Concentrated Food Chlorin, Concentrated Food Phosphorus, Concentrated Food Silicon, Concentrated Food Fluorin, Concentrated Food Calcium, Concentrated Food Sulphur, Concentrated Food Iodin, Concentrated Food Manganese, Concentrated Male Gland Food, Concentrated Female Gland Food, Food No. 2, Embodying Organic Food Potassium, Iron, Chlorine, Phosphorus; Food 24, Used as a Toxin Eliminator; Food 26, Used as a Preparation to Nourish the Eye Structures; Food 3, Embodying Organic Silicon, Fluorin, Calcium, Iodin, Manganese; Food 8, Used as a Nerve Food; an Intestinal Building Food Desirable in Overcoming Constipation, Building Up the Intestines and Increasing Liver Activity; Food 14, Embodying Organic Bone and Teeth Building Material; Food 16, Used as a Vitality Building Tonic; Food 17, for Skin and Complexion Treatment; Reducing Food; Food 21, Used as a Female Vitality Builder; and a Baby Food Used as a Source of Supplemental Nutrition Rich in Organic Iron, Sulphur, Vegetable Sugar, Nitrogen and Fluorin.
Claims use since July 9, 1932.

Ser. No. 338,222. ROBERT HECTOR, Berkeley, Calif. Filed May 25, 1933.

New Deal

For Blood Tonic Capsules.
Claims use since May 8, 1933.

Ser. No. 338,364. DEBRIS, INC., New York, N. Y. Filed May 31, 1933.



The word "Tick" is claimed only in association with the mark as shown.
For Insecticides.
Claims use since May 15, 1933.

Ser. No. 338,375. MARIE LOUISE PIERRAT LAVRAT, Paris, France. Filed May 31, 1933.

Dioradin

For Radioactive Ampoules Used for All Medicinal Purposes for Which Radio Emanations are Employed.
Claims use since Oct. 12, 1921.

Ser. No. 338,468. THE SOUTHERN DRUG COMPANY, Jacksonville, Fla. Filed June 2, 1933.

BENNETT'S PRESCRIPTION 108

No claim is made to the word "Prescription" apart from the mark as shown.
For Medicinal Preparations—Namely, a Tonic for Treating Chills, Colds, and Malaria; and Laxative Tablets.
Claims use since Jan. 1, 1916.

Ser. No. 338,502. ROYAL BOND, INC., St. Louis, Mo. Filed June 3, 1933.

Royal Bond

For Funeral Directors' and Embalmers' Supplies—Namely, Embalming Fluids, Blood Solvents, Color Restorers

Complexion Creams, Nail Polish, Hardening Compounds in Powder Form for Use on Human Bodies After Post Mortem Examination, Disinfectants, Deodorants, Germicides, Filling Waxes and Liquid Incense, Lip Rouge, Hair Cleanser and Beautifier, Liquid Powder, Cleaning Liquid, Thinner and Dryer, Covering Cream, Flesh Tinting Spray, and Cosmetic Stain.
Claims use since Oct. 4, 1929.

Ser. No. 338,583. WILLIAM E. SHERBONDY, Cleveland, Ohio. Filed June 6, 1933.

nite-glow

For Vanity Cases Containing Face Powder, and/or Rouge and Face Powder and Rouge Therefor.
Claims use since December, 1932.

Ser. No. 338,690. J. L. ELLETT, Philadelphia, Pa. Filed June 9, 1933.

KOREXOL

For Shampoos and Medicated Greaseless Creams for General Utility Purposes.
Claims use since June, 1931.

Ser. No. 338,868. GEIGY COMPANY, INC., New York, N. Y. Filed June 15, 1933.

GEIGY

For Dyestuffs, Lakes, and Chemical Products Suitable for Dyeing Purposes.
Claims use since Aug. 19, 1928.

Ser. No. 338,871. IRON CITY WIPING MATERIALS CO. INC., Pittsburgh, Pa. Filed June 15, 1933.

WALCOTE MANOR

For Insecticides.
Claims use since June, 1908.

Ser. No. 338,875. OSMER F. OLIVER, doing business as Tri-Dermis Company, Akron, Ohio. Filed June 15, 1933.

TRI-DERMIS

For Skin Creams for Use as Protective, Healing, and Cleansing Covering for Hands, Arms, Etc.
Claims use since June 9, 1933.

Ser. No. 338,881. VIRGINIA FRUIT FUMIGATION COMPANY, West Norfolk, Va. Filed June 15, 1933.

SPRAYRITE

For Insecticide and Fumigicide Mixture.
Claims use since Mar. 1, 1932.

Ser. No. 338,904. NATIONAL OIL PRODUCTS COMPANY, INC., Harrison, N. J. Filed June 16, 1933.

Davolene

For Monoatomic Alcohols and Their Esters.
Claims use since Sept. 15, 1932.

Ser. No. 338,998. L. T. PIVER, INC., Wilmington, Del., and New York, N. Y. Filed June 19, 1933.



MATITÉ

The representation of the woman's face shown on the drawing is fanciful.
For Face Powder.
Claims use since May 23, 1933.

CLASS 10

Fertilizers

Ser. No. 335,307. NITRATE AGENCIES COMPANY, New York, N. Y. Filed Feb. 25, 1933.

GENUINE NACONITE FORMULA

The words "Genuine" and "Formula" which appear on the drawing are disclaimed apart from the mark shown.
For Fertilizer.
Claims use since July 1, 1932.

Ser. No. 335,308. NITRATE AGENCIES COMPANY, New York, N. Y. Filed Feb. 25, 1933.



The words "Genuine", "Guano", and "Humboldt" which appear on the drawing are disclaimed apart from the mark shown.
For Fertilizers.
Claims use since July 1, 1932.

CLASS 11

Inks and Inking Materials

Ser. No. 337,840. CROWN RIBBON & CARBON MFG. CO., Rochester, N. Y. Filed May 15, 1933.

HERCULES

For Carbon Paper.
Claims use since Jan. 6, 1906.

CLASS 12

Construction Materials

Ser. No. 335,078. STANDARD FUEL ENGINEERING COMPANY, Detroit, Mich. Filed Feb. 17, 1933.

ZERO

For Brick and Tile Formed of Refractory Material.
Claims use since Feb. 15, 1933.

Ser. No. 338,816. PERCY E. HOAK, Des Moines, Iowa. Filed May 29, 1933.

LAMINEX

For Wooden Culvert.
Claims use since Mar. 1, 1933.

Ser. No. 338,706. FRED E. WEBSTER, San Antonio, Tex. Filed June 9, 1933.



The word "Admixture" is disclaimed apart from the other features of the mark appearing in the drawing.
For Composition to be Added to Cement to Inc ease Its Strength, Workability, Appearance, and Quality.
Claims use since Mar. 3, 1932.

Ser. No. 339,269. THE FLINTKOTE CORPORATION, New York, N. Y. Filed June 27, 1933.

CANYON

For Composition Asphalt Shingles.
Claims use since Sept. 1, 1931.

Ser. No. 339,270. THE FLINTKOTE CORPORATION, New York, N. Y. Filed June 27, 1933.

DUO-LAY

For Composition Asphalt Shingles.
Claims use since May 15, 1933.

Ser. No. 339,271. THE FLINTKOTE CORPORATION, New York, N. Y. Filed June 27, 1933.

GRAND CANYON

For Composition Asphalt Shingles.
Claims use since Apr. 28, 1933.

CLASS 15

Oils and Greases

Ser. No. 335,726. A. LESCHEN & SONS ROPE COMPANY, St. Louis, Mo. Filed Mar. 16, 1933.

"Le Pro"

For Wire Rope Lubricants.
Claims use since Jan. 30, 1933.

Ser. No. 337,642. MOTOR FUEL COMPANY, Habana, Cuba. Filed May 9, 1933.

MOFUCO

The stripes in the triangular figure shown on the drawing are red, white and blue.
For Liquid Motor Fuel Comprising a Mixture of Hyrocarbon Oil and Alcohol.
Claims use since Apr. 30, 1932.

Ser. No. 338,167. TIDE WATER OIL COMPANY, Tulsa, Okla. Filed May 23, 1933.



For Gasoline and Motor Lubricating Oils.
Claims use since October, 1932.

Ser. No. 338,168. TIDE WATER OIL COMPANY, Tulsa, Okla. Filed May 23, 1933.



For Gasoline and Motor Lubricating Oils.
Claims use since October, 1932.

Ser. No. 339,076. EDWARD H. JOHANSEN, Washington, D. C. Filed June 21, 1933.

RED CHIEF

For Gasoline and Lubricating Oil.
Claims use since June 16, 1933.

Ser. No. 339,077. EDWARD H. JOHANSEN, Washington, D. C. Filed June 21, 1933.

WHITE CHIEF

For Gasoline and Lubricating Oil.
Claims use since June 16, 1933.

CLASS 16

Paints and Painters' Materials

Ser. No. 336,228. PERMATEX COMPANY, INC., Brooklyn, N. Y. Filed Mar. 30, 1933.

BLUE-BLAZES

For Automobile Polishes and Furniture Polishes.
Claims use since May 6, 1929.

Ser. No. 336,694. SIMMONS HARDWARE COMPANY, St. Louis, Mo. Filed Apr. 12, 1933.

PENNANT

For Ready-Mixed Paints, Varnishes, and Paint Enamels.
Claims use since Jan. 20, 1903.

Ser. No. 336,695. SIMMONS HARDWARE COMPANY, St. Louis, Mo. Filed Apr. 12, 1933.

Simco

For Ready-Mixed Paints, Varnishes, and Paint Enamels.
Claims use since Mar. 6, 1933.

Ser. No. 339,093. BALTIMORE SALVAGE COMPANY, Baltimore, Md. Filed June 22, 1933.

BASCOLITE

For Ready Mixed Paints, Varnishes, and Prepared Shellacs.
Claims use since June 12, 1930.

CLASS 17

Tobacco Products

Ser. No. 339,169. M. THELLES & COMPANY, New Orleans, La. Filed June 23, 1933.

GREAT SOUTHERN

For Cigars, Cheroots, Cigarettes, and Little Cigars.
Claims use since June 16, 1932.

Ser. No. 339,191. JABURG BROTHERS, INC., New York, N. Y. Filed June 24, 1933.

JAY J BEE

For Cigarettes, Cigars, and Smoking and Chewing Tobacco.
Claims use since Apr. 1, 1915.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 338,780. M. KAHN, doing business as Em-Kay Manufacturing Co., Chicago, Ill. Filed June 12, 1933.

"SNUBZ"

For Auto Door Bumpers.
Claims use since Dec. 21, 1932.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 337,444. SCINTILLA AKTIENGESELLSCHAFT, Soleure, Switzerland. Filed May 3, 1933.

„VERTEX"

For Magnetos for Internal Combustion Engines.
Claims use since July 31, 1932.

Ser. No. 337,656. HERBERT ALLAN SILLCOX, New York, N. Y. Filed May 9, 1933.

SILCO

For Radio Receiving Sets and Radio Tubes.
Claims use since Feb. 1, 1933.

Ser. No. 337,754. THE NORWALK TIRE & RUBBER COMPANY, INC., Norwalk, Conn. Filed May 12, 1933.

NORWALK Registered

The words "Norwalk" and "Registered" are hereby disclaimed apart from the mark shown in the drawing.
For Batteries.
Claims use since Apr. 4, 1933.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 329,5[illegible] THE BURKE GOLF COMPANY, Newark, Ohio. Filed Aug. 17, 1932.

MICHIGAN P.G.O.

For Golf Balls and Golf Bags.
Claims use since Apr. 6, 1932.

Ser. No. 338,478. THE BALSA WOOD COMPANY, INC., Brooklyn, N. Y. Filed June 3, 1933.



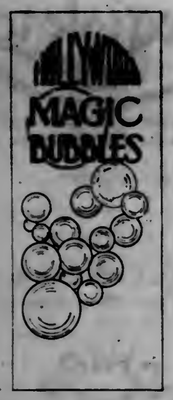
No claim is made to any of the words appearing on the drawing except in the association shown.
For Swimming Belts, Life Preservers, Swimming Boards, Aquaplanes, Surf Boards, Children's Sail Boats, Raceline Floats, Net Floats, Life Line Floats.
Claims use since Jan. 1, 1933.

Ser. No. 338,594. ACCLES & POLLOCK LTD., Oldbury, near Birmingham, England. Filed June 7, 1933.

APOLLO

For Golf Clubs and Irons, Golf Balls, Bags, Tees, Tennis and Badminton Racquets.
Claims use since May 6, 1913, on Golf Clubs and Irons, Golf Balls, Bags, Tees; Jan. 25, 1933, on Tennis and Badminton Racquets.

Ser. No. 338,786. HARRY ALBERT MERRILL, Glendale, Calif. Filed June 12, 1933.



No claim is made to the word "Bubbles," nor to the outline of a label per se.
For Bubble Solutions and Bubble Blowers.
Claims use since May 12, 1933.

Ser. No. 339,448. BOB-O-LITE MANUFACTURING COMPANY, Newton, Kans. Filed July 3, 1933.

BOB-O-LITE

For Fishing Floats.
Claims use since May 15, 1933.

Ser. No. 339,627. FLORENCE M. GREVEN, Reserve, La. Filed July 11, 1933.



For Puzzles and Puzzle Pictures.
Claims use since June 29, 1933.

Ser. No. 339,728. KORS BROTHERS, INC., New York, N. Y. Filed July 13, 1933.

Wiff'n Pouff

For Toy Balloons.
Claims use since July 6, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 315,687. HERCULES MOTORS CORPORATION, Canton, Ohio. Filed June 11, 1931.

HERCULES

For Heavy Duty Internal Combustion Engines, Power Units Including Internal Combustion Engines and Accessories—Namely, Reduction Gears and Clutches for Internal Combustion Engines and Power Units.
Claims use since May, 1916.

Ser. No. 339,384. THE BLACK FLAG COMPANY, Baltimore, Md. Filed June 30, 1933.



For Hand Sprays for Liquid and Powder Insecticides.
Claims use since 1925.

CLASS 24

Laundry Appliances and Machines

Ser. No. 339,889. DUNBAR-GIBSON, INCORPORATED, New York, N. Y. Filed June 30, 1933.



For Curtain Stretchers.
Claims use since May 1, 1933.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 334,488. CONSTRUMENTS LIMITED, London, England. Filed Jan. 31, 1933.



For Microscopes, Magnifying Glasses, Magnifying Projectors, and Parts Thereof.
Claims use since August, 1928.

Ser. No. 338,157. MARCH OF THE YEARS, INC., New York, N. Y. Filed May 23, 1933.



For Series of Motion-Picture Films.
Claims use since Feb. 21, 1933.

Ser. No. 338,537. POLAROGRAPH LABORATORIES OF AMERICA, Berkeley, Calif. Filed June 5, 1933.

POLAROGRAPH

For Electrical Analyzing Apparatus—Namely, Electrical Apparatus Adapted to Record the Presence and Quantity of Certain Substances via Reduction and/or Adsorption of the Latter in Solution.
Claims use since Feb. 1, 1927.

Ser. No. 339,411. CHARLES E. SWANN, Chicago, Ill. Filed June 30, 1933.

CESCO

For Gauges.
Claims use since June 23, 1933.

CLASS 27

Horological Instruments

Ser. No. 339,163. EDWARD H. PHILIPPI, Chicago, Ill. Filed June 23, 1933.

Datoday

For Advertising Devices in the Nature of a Coupon Issuing Calendar Clock.
Claims use since June 1, 1932.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 339,408. PRO-PHY-LAC-TIC BRUSH COMPANY, Northampton, Mass. Filed June 30, 1933.

Stranzit

For Hair Brushes.
Claims use since 1904.

CLASS 31

Filters and Refrigerators

Serial No. 336,804. THE RUDOLF WURLITZER COMPANY, Cincinnati, Ohio. Filed Apr. 14, 1933. Under 10-year proviso.

WURLITZER

For Refrigerators of All Types Comprising Household, Store and Electric Refrigerators and Parts Thereof, Ice Boxes and Chests for the Preservation of Foodstuffs, Ice-Cream Freezers, and Water Filters and Parts Thereof.
Claims use since Feb. 1, 1932.

Ser. No. 339,162. NORTH BRO'S MF'G CO., Philadelphia, Pa. Filed June 23, 1933.

"LIGHTNING"

For Beverage Coolers.
Claims use since Mar. 24, 1933.

CLASS 32

Furniture and Upholstery

Ser. No. 337,616. THE NATIONAL FURNITURE & BEDDING CO., Leavenworth, Kans. Filed May 8, 1933.

DREAMWAY
The Spring-in-a-Spring Mattress

The term consisting of "The Spring-in-a-Spring Mattress" is disclaimed for the purpose of this registration,

except in association with the mark shown, but all common-law rights therein are expressly reserved.
For Mattresses.
Claims use since July, 1931.

CLASS 33
Glassware

Ser. No. 333,229. EDWARD O. GRIFFIN, Jr., doing business as Griffin Specialty Sales Co., Hollywood, Calif. Filed Dec. 20, 1932.

"Lumenite"

For Glass Reflectors.
Claims use since Oct. 1, 1931.

CLASS 34
Heating, Lighting, and Ventilating Apparatus

Ser. No. 339,041. RICHMOND RADIATOR COMPANY, INCORPORATED, New York, N. Y. Filed June 20, 1933.

RICHVAR

For Heating Radiators.
Claims use since Jan. 5, 1933.

Ser. No. 339,275. LYSAGHT PROTECTED STEEL CO., LTD., Bristol, England. Filed June 27, 1933.



No claim is made herein to the registration of the words "Protected Steel" apart from the mark shown in the drawing.
For Sheet Metal Roof Ventilators.
Claims use since July 1, 1932.

CLASS 36
Musical Instruments and Supplies

Ser. No. 335,072. ORVAG AKTIENGESELLSCHAFT, Zurich, Switzerland. Filed Feb. 17, 1933.

UNIVOLT

For Phonographs, Phonograph Records, Phonograph Needles, Phonograph Horns, and the Following Phonograph Parts: Sound Boxes, Diaphragms, and Diaphragm Mountings, Combined Sound Box Rest and Needle-Setting Devices, Tone-Arm Rests, and Needle Cases.
Claims use since Mar. 10, 1932.

CLASS 37
Paper and Stationery

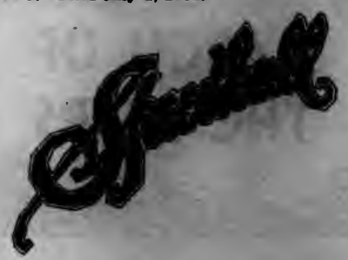
Ser. No. 339,092. AMERICAN TISSUE MILLS, Holyoke, Mass. Filed June 22, 1933.

Perkinized

For Laminated Papers Consisting of Secured Together Piles of Paper for Use as Shelf Paper, Wrapping Paper, Streamers and the Like.
Claims use since May 8, 1933.

CLASS 38
Prints and Publications

Ser. No. 328,529. C. HOWARD HUNT PEN COMPANY, Camden, N. J. Filed July 2, 1932.



For Text Books Including Plates and Instruction Sheets.
Claims use since July 1, 1923.

Ser. No. 333,585. GRAND RAPIDS FURNITURE MAKERS GUILD, Grand Rapids, Mich. Filed Jan. 3, 1933.

The Stylist

For Furniture Merchandising Periodical.
Claims use since Dec. 5, 1932.

Ser. No. 338,608. KATES-BOYLSTON PUBLICATIONS, INC., New York, N. Y. Filed June 7, 1933.

THE AMERICAN BLUE BOOK OF FUNERAL DIRECTORS

For Periodical.
Claims use since June 9, 1932.

Ser. No. 338,811. GOLFING, INC., Chicago, Ill. Filed June 13, 1933.

Golfing

For Periodical.
Claims use since Apr. 14, 1933.

Ser. No. 339,569. CLARENCE A. O'BRIEN, Washington, D. C. Filed July 7, 1933.



O'BRIEN'S Observations

For Periodical Publication.
Claims use since June 1, 1933.

CLASS 39
Clothing

Ser. No. 325,421. BODNER & SOFRANSKI, INC., New York, N. Y. Filed Mar. 24, 1932.



For Children's Hats.
Claims use since Mar. 1, 1931.

Ser. No. 326,277. ALPERIN STRAUSS CO., INC., New York, N. Y. Filed Apr. 20, 1932.



The drawing is lined to represent the color gold.
For Men's and Boys' Dress, Negligee, and Work Shirts.
Claims use since Nov. 15, 1931.

Ser. No. 333,176. ATLANTIC LEATHER CORPORATION, Boston, Mass. Filed Dec. 19, 1932.

ALCO

For Leather Insoles for Use in Shoes and Other Footwear.
Claims use since Sept. 10, 1932.

Ser. No. 333,262. LUBIN-WERKER CO. INC., New York, N. Y. Filed Dec. 21, 1932.

WONDERBELT

For Pajamas.
Claims use since December, 1932.

Ser. No. 337,991. ALBERT L. BERRY LEATHER COMPANY, Boston, Mass. Filed May 19, 1933.



No claim is made to the exclusive use of the word "Leather" apart from the mark as shown.
For Innersoles and Outersoles of Leather.
Claims use since May 13, 1933.

Ser. No. 338,100. MEIER & FRANK CO., Portland, Oreg. Filed May 22, 1933.

MARDALE

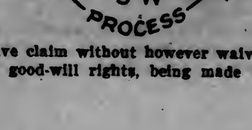
For Men's Wearing Apparel—Namely, Hats, Dress, Negligee, Work, and Under Shirts, Underwear; Shoes of Leather, Rubber, Fabric, or Combinations Thereof; Pajamas, Sweaters, Suits, Overcoats, Top Coats, Rain Coats, Trousers, Knickers.
Claims use since Jan. 23, 1933.

Ser. No. 338,117. STIX-ALTMAN-WEINER, INC., Norwood, Ohio. Filed May 22, 1933.



Applicant disclaims the right to the exclusive use of the descriptive word "Shoe" and the geographical expression "Cincinnati, O." apart from the mark as shown in the drawing.
For Shoes of Leather and of Leather and Fabric.
Claims use since May 9, 1933.

Ser. No. 338,345. WOLFF-TOBER SHOE MANUFACTURING CO., St. Louis, Mo. Filed May 29, 1933.



No exclusive claim without however waiving any common law or good-will rights, being made to the words

"Fashion", "Footwear", and "Process", apart from the mark shown.

For Ladies' and Misses' Shoes, Slippers, Pumps, and Low Quarters of Leather, Fabric, and Combinations Thereof.

Claims use since Apr. 1, 1933.

Ser. No. 338,380. HORACE THOMPSON, doing business as Gokey Company, St. Paul, Minn. Filed May 31, 1933. Under 10-year proviso.

GOKEY BOTTÉ SAUVAGE

For Leather Sporting Boots.
Claims use since 1850.

Ser. No. 338,393. FACHO CAP COMPANY, Dallas, Tex. Filed May 31, 1933.

Facho Cap Co.

For Children's Caps and Berets.
Claims use since Jan. 1, 1928.

Ser. No. 338,405. DUNN AND MCCARTHY, INC., Auburn, N. Y. Filed June 1, 1933.

Molly Marvel Fashionwelt COMBINATION LAST

No claim is made to the exclusive right to use the phrases "Fashionwelt" and "Combination Last" apart from the mark shown.

For Leather Shoes.
Claims use since May 23, 1933.

Ser. No. 338,407. THE ENRO SHIRT COMPANY, INC., Louisville, Ky. Filed June 1, 1933.

"Formline"

For Negligee and Dress Shirts, Underwear, and Pajamas for Men, Women, and Children.
Claims use since January, 1933.

Ser. No. 338,568. JAY GEE HAT CO., INC., New York, N. Y. Filed June 6, 1933.

Doeskin FINISH

No claim is made to the words "Doeskin" and "Finish" apart from the mark shown in the drawing.

For Ladies' Hats.
Claims use since Apr. 1, 1933.

Ser. No. 338,638. ESSEX RUBBER COMPANY, Trenton, N. J. Filed June 5, 1933.

SNAPEE

For Shoe Soles Formed of Rubber or Rubber Composition.
Claims use since May 5, 1933.

Ser. No. 338,648. CURTIS SHOE COMPANY, INC., Marlboro, Mass. Filed June 8, 1933.

VELVETRED

For Boots and Shoes Made Principally of Leather, and Innersoles.
Claims use since June, 1929.

Ser. No. 338,714. THE B. V. D. COMPANY, INC., Baltimore, Md. Filed June 10, 1933.

Linn-craft

For Negligee Shirts, Pajamas, and Underwear for Men, Women, and Children.
Claims use since May 12, 1933.

Ser. No. 338,825. I. NEWMAN & SONS, INC., New Haven, Conn., and New York, N. Y. Filed June 13, 1933.

Trifle

For Foundation Garments and Brassières.
Claims use since Mar. 29, 1933.

Ser. No. 338,939. HENRY POLLAK, INC., New York, N. Y. Filed June 17, 1933.

SPORTIN

For Berets.
Claims use since June 1, 1933.

Ser. No. 338,958. WHITE, New Haven, Conn. Filed June 17, 1933.

"PROSPECT STREET"

For Men's Hats.
Claims use since Apr. 10, 1933.

Ser. No. 338,959. WHITE, New Haven, Conn. Filed June 17, 1933.

"SACHEM STREET"

For Men's Hats.
Claims use since Apr. 10, 1933.

Ser. No. 338,960. WHITE, New Haven, Conn. Filed June 17, 1933.

"TEMPLE STREET"

For Men's Hats.
Claims use since Apr. 10, 1933.

Ser. No. 339,068. THE FEDER GREGG SHOE COMPANY, Cincinnati, Ohio. Filed June 21, 1933.

MISS Pedestrienne by FEDER-GREGG

For Ladies Shoes of Leather, Fabric, or Combinations Thereof.
Claims use since Oct. 14, 1932.

Ser. No. 339,071. GOLDSMITH BROS., New York, N. Y. Filed June 21, 1933.

·Golbro·

For Ladies' and Gentlemen's Hosiery.
Claims use since Oct. 1, 1932.

Ser. No. 339,290. BERKSHIRE KNITTING MILLS, Reading, Pa. Filed June 28, 1933.



For purposes of this registration and without waiving any common-law rights thereto, the notation "Rings-Out" and the word "Stockings" are hereby disclaimed apart from the mark as shown on the drawing.

For Hosiery.
Claims use since June 22, 1933.

Ser. No. 339,357. FREDERICK LOESER & CO., INC., Brooklyn, N. Y. Filed June 29, 1933.

LOESER'S CROCUS

For Hosiery.
Claims use since Mar. 15, 1933.

Ser. No. 339,402. LANSBURGH & BRO., doing business as Lansburgh's, Washington, D. C. Filed June 30, 1933.

LANCREST

For Hosiery.
Claims use since May 10, 1933.

Ser. No. 339,540. RICHEY SHIRT MANUFACTURING CORPORATION, New York, N. Y. Filed July 6, 1933.

Trevor

For Men's and Boys' Dress and Negligee Shirts.
Claims use since May 10, 1933.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 338,819. THE FANTOM GRIP COMPANY, New York, N. Y. Filed June 13, 1933.

FAN TOM

For Hosiery Grip.
Claims use since Mar. 2, 1932.

Ser. No. 339,376. JOHN ZOHN, New York, N. Y. Filed June 29, 1933.

Zolite

For Buttons and Buckles Not of Precious Metal.
Claims use since April, 1933.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 323,219. BEACON MANUFACTURING COMPANY, New Bedford, Mass. Filed Jan. 21, 1932.

INCA

For Blankets Made of Cotton or Cotton and Wool.
Claims use since Jan. 8, 1932.

Ser. No. 331,809. J. R. THORP & CO., INC., New York, N. Y. Filed Nov. 1, 1932.

DESLEY

For Fabrics in the Piece of Linen, Cotton, Silk, Wool, Rayon, Jute, Corduroy, and Osnaburg; for Curtains, Draperies, Bedspreads, and Portiéres.
Claims use for fabrics in the piece, since Sept. 1, 1932; for curtains, since Aug. 24, 1932; for draperies, since Sept. 15, 1932; for bedspreads, since Sept. 26, 1932; and for portiéres, since Sept. 23, 1932.

Ser. No. 338,285. GIMBEL BROTHERS, INC., New York, N. Y. Filed May 27, 1933.

FOUR STORE

For Muslin Sheets and Pillowcases, Cotton Terry Towels, and Wash Cloths; Cotton, Wool, and Part Wool Blankets; Auto Robes Made of Textile Fabrics, All Types of Comforters, Coverlets, Mattress Covers, Blanket Covers, Made of Textile Fabrics, Mattress Protectors Made of Textile Fabrics.
Claims use since Apr. 15, 1933.

Ser. No. 338,462. ONONDAGA SILK COMPANY, INC., Syracuse and New York, N. Y. Filed June 2, 1933.

Jubbah

For Silk Fabrics in the Piece.
Claims use since May 22, 1933.

Ser. No. 338,463. ONONDAGA SILK COMPANY, INC., Syracuse and New York, N. Y. Filed June 2, 1933.

Rasha

For Silk Fabrics in the Piece.
Claims use since May 22, 1933.

Ser. No. 338,713. THE B. V. D. COMPANY, INC., Baltimore, Md. Filed June 10, 1933.

Linn-craft

For Bed Sheets, Pillowcases, and Cotton, Linen, or Combination Cotton and Linen Piece Goods.
Claims use since May 13, 1933.

Ser. No. 338,821. HENRY GLASS & CO., New York, N. Y. Filed June 13, 1933.

GAYBROOK

For Piece Goods—Namely, Cotton Piece Goods, Combination Silk and Cotton Piece Goods, Combination, Artificial Silk and Cotton Piece Goods, and Rayon Piece Goods.
Claims use since Feb. 13, 1933.

Ser. No. 339,043. MATTHEW W. RYAN SONS & CO., INC., New York, N. Y. Filed June 20, 1933.

ALMAY Percale

No claim being made to the exclusive use of the word "Percale" apart from the mark as shown.
For Cotton Piece Goods.
Claims use since June 1, 1932.

Ser. No. 339,120. ROSSIR VELVET COMPANY, Mystic, Conn. Filed June 22, 1933.



For Pile Fabrics.
Claims use since May 24, 1933.

Ser. No. 339,121. ROSSIR VELVET COMPANY, Mystic, Conn. Filed June 22, 1933.



For Pile Fabrics.
Claims use since May 24, 1933.

Ser. No. 339,122. ROSSIR VELVET COMPANY, Mystic, Conn. Filed June 22, 1933.



For Pile Fabrics.
Claims use since May 24, 1933.

Ser. No. 339,254. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed June 27, 1933.

CREPE CELABENG

No claim is made to the word "Crepe" apart from the mark as shown on the drawing.
For Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since June 26, 1933.

Ser. No. 339,255. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed June 27, 1933.

CREPE SHEREEB

No claim is made to the word "Crepe" apart from the mark as shown on the drawing.
For Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since June 26, 1933.

CLASS 43

Thread and Yarn

Ser. No. 339,047. THREADS, INCORPORATED, Gastonia and Arkray Village, N. C. Filed June 20, 1933.



The drawing is lined for the color red.
For Sewing Thread.
Claims use since Oct. 1, 1932.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 336,897. AMERICAN PLATINUM WORKS, Newark, N. J. Filed Apr. 18, 1933.

LUXALLOY

For Dental Alloy in Castings and Sheets.
Claims use since Sept. 1, 1932.

Ser. No. 338,421. MON DOCTEUR IMPORTING CO., INC., Middlefield, Conn. Filed June 1, 1933.

Dainty Maid

For Vaginal Syringes and Douche Bags.
Claims use since Dec. 6, 1929.

Ser. No. 338,647. VICTOR JEAN CHAUBEAU, Chartres, France. Filed June 8, 1933.

BEATOR

For Orthopedic Belts and Bandages.
Claims use since Jan. 18, 1932.

Ser. No. 338,796. SANITAX ELECTRIC COMPANY, New York, N. Y. Filed June 12, 1933.

OPHTHALMOTHERM

For Electro-Surgical Apparatus.
Claims use since Jan. 2, 1932.

Ser. No. 339,400. KNIGHT PRODUCTS CO., Baltimore, Md. Filed June 30, 1933.



For Baby Feeders and Teething Nipples.
Claims use since June 22, 1933.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 321,075. MALTOSIA PRODUCTS CO., INC., Buffalo, N. Y. Filed Nov. 12, 1931.

MALPROCH MALPROCH

MALT

The word "Malt" is disclaimed apart from the mark as shown.

For Liquid Malt for Cooking and Baking Purposes.

Claims use since Oct. 1, 1931.

Ser. No. 323,890. DELRAY CORPORATION, San Francisco, Calif. Filed Feb. 6, 1932.

CONDE

For Food Flavoring Sauces for Meat, Fish, Game, Etc.

Claims use since Nov. 1, 1931.

Ser. No. 324,039. GREGORY-ROBINSON-SPEAS, INC., Rogers, Ark. Filed Feb. 10, 1932.

OZARK

The word "Ozark" is hereby disclaimed apart from the mark as shown.

For Vinegars.

Claims use since February, 1912.

Ser. No. 328,323. COLONIAL PROVISION CO., INC., Boston, Mass. Filed June 27, 1932.

MASTER SMOKED

No registration rights are claimed for the word "Smoked" apart from the mark shown on the drawing.

For Hams, Shoulders, Bacon, Frankfurters.

Claims use since Sept. 16, 1929.

Ser. No. 328,324. COLONIAL PROVISION CO., INC., Boston, Mass. Filed June 27, 1932.



No registration rights are claimed for the representation of a ham, as shown in the drawing.

For Ham, Shoulders, Bacon, and Frankfurters.

Claims use since May 7, 1932.

Ser. No. 333,286. JOHN P. GASSON, Versailles, Ohio. Filed Dec. 22, 1932.



GASSON'S

WHITE LEGHORNS

No claim is made to the representation of the White Leghorns, apart from the mark as shown in the drawing. The vertical lines represent that part of the trade-mark run in red.

For White Leghorn Baby Chicks.

Claims use since Jan. 10, 1932.

Ser. No. 337,330. CHASE INVESTMENT COMPANY, Sanford, Fla. Filed May 1, 1933.

COAT OF ARMS

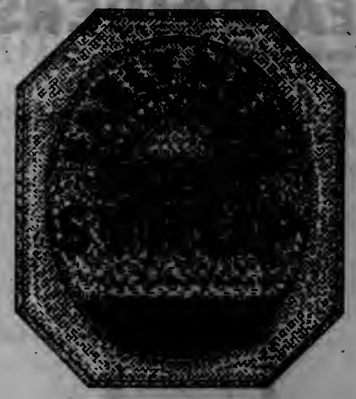


The drawing is lined for red and blue.

For Fresh Citrus Fruits.

Claims use since 1909.

Ser. No. 337,481. NATURAL SUGARS INC., Brooklyn, N. Y. Filed May 4, 1933.



The drawing is lined for gold and diagonally cross-hatched for yellow. No claim is made to the words "Pancake Syrup" apart from the mark as shown in the drawing.

For Pancake Syrup.

Claims use since Feb. 12, 1933.

Ser. No. 337,482. NATURAL SUGARS INC., Brooklyn, N. Y. Filed May 4, 1933.

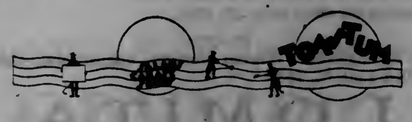


The drawing is lined for gold and diagonally cross-hatched for yellow. No claim is made to the words "Maple Bake" apart from the mark as shown in the drawing.

For Liquid Flavoring for Foods.

Claims use since Mar. 15, 1933.

Ser. No. 337,655. VOTEY & MYER, Hartsdale, N. Y. Filed May 8, 1933.



The words "Salads," "Canape" and "Soups" are disclaimed, apart from the mark as shown in the drawing.

For Toasted Buns.

Claims use since December, 1932.

Ser. No. 337,675. HYDROX CORPORATION, Chicago, Ill. Filed May 10, 1933.

BIG SHOT

For Ice Cream Cones and Frozen Confections Sold in Cups.

Claims use since May, 1928, on cups; since Feb. 28, 1933, on cones.

Ser. No. 338,092. LIBBY, MCNEILL & LIBBY, Chicago, Ill. Filed May 22, 1933.

PEA STATE

The word "Pea" is disclaimed apart from the mark shown in the drawing.

For Canned Peas.

Claims use since 1920.

Ser. No. 338,165. JOS. STRONG & CO., INC., Terre Haute, Ind. Filed May 23, 1933.

POPOVER

For Baking Powder.

Claims use since September, 1908.

Ser. No. 338,292. ROBINSON CANNING COMPANY, Siloam Springs, Ark. Filed May 27, 1933.

KING of OZARKS

For Canned Vegetables and Canned Berries.

Claims use since Apr. 3, 1933.

Ser. No. 338,401. CARDINALE MACARONI MFG. CO., INC., Brooklyn, N. Y. Filed June 1, 1933.



No claim is made to any of the notations except the word "Cardinale" apart from the mark as shown on the drawing.

For Macaroni.

Claims use since Sept. 1, 1932.

Ser. No. 338,757. ROMANOFF CAVIAR COMPANY, New York, N. Y. Filed June 10, 1933.

ROMANOFF

The descriptive words "Brand" and "U K P A" are disclaimed apart from the mark shown.
For Imported Russian Sturgeon Caviar.
Claims use since 1906.

Ser. No. 338,777. GORDON BAKING COMPANY, Detroit, Mich. Filed June 12, 1933.

HONEYCUP

For Whole Wheat Bread.
Claims use since June 1, 1933.

Ser. No. 338,782. KRAFT-PHENIX CHEESE CORPORATION, Chicago, Ill. Filed June 12, 1933.

KRACENE

For Casein Precipitating Agent.
Claims use since Apr. 8, 1933.

Ser. No. 338,862. THE BES-CONE COMPANY, Baltimore, Md. Filed June 15, 1933.

BRIC-O-DIP

For Ice Cream Cones.
Claims use since May 10, 1933.

Ser. No. 338,879. SCHARF BROS. CO. INC., New York, N. Y. Filed June 15, 1933.

Buttarums

For Confectionery—Namely, Candy.
Claims use since Nov. 18, 1929.

Ser. No. 338,883. STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa. Filed June 15, 1933.

GLAMOUR

For Candy.
Claims use since June 5, 1933.

Ser. No. 338,884. WORLD WIDE GUM CO., Boston, Mass. Filed June 15, 1933.

SEA RAIDERS

For Chewing Gum.
Claims use since May 18, 1933.

Ser. No. 339,040. W. S. QUINBY COMPANY, Boston, Mass. Filed June 20, 1933.



For Tea and Coffee.
Claims use since Jan. 1, 1929.

Ser. No. 339,131. F. G. VOGT & SONS, INCORPORATED, Philadelphia, Pa. Filed June 22, 1933.

Vosela

For Sausage.
Claims use since June 8, 1933.

Ser. No. 339,137. ADOLF WENGI, Louisville, Ky. Filed June 22, 1933.



No claim is made to the representation of a pie, or to the misspelling of the word "Pie" apart from the mark shown.
For Pies in Chilled or Frozen Form.
Claims use since Sept. 20, 1932.

Ser. No. 339,194. WALTER MEWING, Los Angeles, Calif. Filed June 24, 1933.

LOMITA

For Fresh Deciduous Fruits, Fresh Citrus Fruits, Fresh Vegetables.
Claims use since May 29, 1933.

Ser. No. 339,249. D. H. BROWDER, SON, & CO., Arcadia, Fla. Filed June 27, 1933.

ORANGE RIVER

For Fresh Citrus Fruits.
Claims use since 1931.

Ser. No. 339,264. DWIGHT EDWARDS COMPANY, San Francisco, Calif. Filed June 27, 1933.

AIRWAY

For Coffee.
Claims use since Dec. 16, 1927.

Ser. No. 339,360. MODERN FOOD PROCESS COMPANY, Philadelphia, Pa. Filed June 29, 1933.

Alaham

For Ham.
Claims use since June 12, 1933.

Ser. No. 339,435. HURTY-PECK AND COMPANY, Indianapolis, Ind. Filed July 1, 1933.

Dae-re-O

For Flavored Milk and Flavoring Syrup Therefor.
Claims use since Nov. 1, 1932.

CLASS 47

Wines

Ser. No. 339,578. COFFIN-REDINGTON COMPANY, San Francisco, Calif. Filed July 7, 1933.

Monte Santo



For Wines.
Claims use since June 1, 1933.

Ser. No. 339,579. FRUIT INDUSTRIES, LTD., Los Angeles, Calif. Filed July 7, 1933.

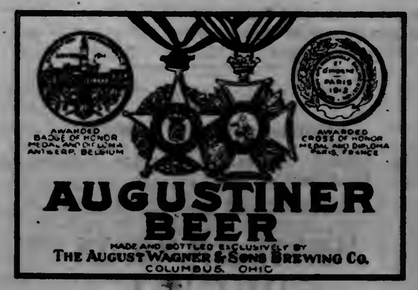
OLYMPIC

For Wines.
Claims use since June 16, 1933.

CLASS 48

Malt Beverages and Liquors

Ser. No. 338,799. THE AUGUST WAGNER & SONS BREWING COMPANY, Columbus, Ohio. Filed June 12, 1933.



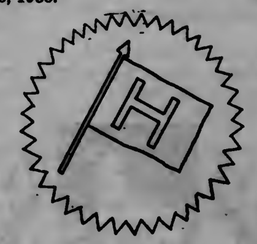
Apart from the mark as shown, no claim is made to any of the notations appearing on the drawing with the exception of the word "Augustiner" and the name of the applicant corporation.
For Malt Beverages with Not More Than the Legal Alcoholic content.
Claims use since Jan. 15, 1907.

Ser. No. 339,213. TWO RIVERS BEVERAGE COMPANY, Two Rivers, Wis. Filed June 24, 1933.

Golden Drops

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since 1895.

Ser. No. 339,521. HARVARD BREWING CO., Lowell, Mass. Filed July 6, 1933.



For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since June 26, 1933.

Ser. No. 339,582. F. W. COOK COMPANY, Evansville, Ind. Filed July 8, 1933.

Cook's
GOLDBLUME

For Fermented Malt Beverages of Legal Alcoholic Content.
Claims use since 1902.

Ser. No. 339,621. WYOMING BREWING COMPANY, Wilkes-Barre, Pa. Filed July 10, 1933.

WYOMING CHIEF

For Beer, Ale, and Porter.
Claims use since June 28 1933.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 335,658. WHYTE & MACKAY LTD., Glasgow, Scotland. Filed Mar. 14, 1933.



The name Whyte & Mackay is a facsimile signature of a deceased member. No claim is made to any of the words appearing on the drawing with the exception of "Double Lion" "Whyte & Mackay" and "Whyte & Mackay's", and no claim is made to the representation of a label per se.
For Whisky.
Claims use since Jan. 1, 1907.

Ser. No. 336,947. JAMES MCVEY, LTD., Glasgow, Scotland. Filed Apr. 19, 1933.



"WHITE HART"

For Whisky.
Claims use since 1924.

Ser. No. 338,553. BERRY BROS. & CO., London, England. Filed June 6, 1933.



No claim is made to any of the words appearing on the drawing with the exception of the firm name of applicant.
For Scotch Whisky.
Claims use since 1902.

Ser. No. 339,182. COMMERCIAL SOLVENTS CORPORATION, New York, N. Y. Filed June 24, 1933.

COMSOL

For Ethyl Alcohol and Grain Alcohol.
Claims use since Apr. 22, 1933.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 339,449. BROCKWAY SALES COMPANY, Brockway, Pa. Filed July 3, 1933.

VAC-A-LOC

For Bottle Closures.
Claims use since Apr. 29, 1933.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 15, 1933

305,296. IRON CASTINGS. KAY-BRUNNER STEEL PRODUCTS INC., Alhambra, Calif.
Filed February 6, 1933. Serial No. 334,682. PUBLISHED MAY 30, 1933. Class 14.

305,297. ELECTRIC APPARATUS, PARTICULARLY PHOTOELECTRICALLY CONTROLLED LIGHTING SYSTEMS AND ELECTRICALLY CONTROLLED BURGLAR ALARM SYSTEMS AND APPARATUS. INTELLECT-A-RAY CORPORATION, Pasadena, Calif.
Filed February 6, 1933. Serial No. 334,681. PUBLISHED MAY 30, 1933. Class 21.

305,298. PASTES AND POWDERS FOR BEAUTIFYING AND PRESERVING THE TEETH, SKIN, AND HAIR, AND PERFUMERY. PARFUMERIE ROGER ET GALLET, SOCIETE ANONYME, Paris, France.
Filed February 4, 1933. Serial No. 334,651. PUBLISHED MAY 23, 1933. Class 6.

305,299. FRESH FRUIT CONFECTIONS AND CANDY. LUKIS BROTHERS, Los Angeles, Calif.
Filed February 4, 1933. Serial No. 334,644. PUBLISHED MAY 30, 1933. Class 46.

305,300. CHEWING GUM LAXATIVE. HOWARD W. CHADWICK, doing business as The Vim-Lax Co., Schenectady, N. Y.
Filed February 3, 1933. Serial No. 334,597. PUBLISHED MAY 16, 1933. Class 6.

305,301. SALAD DRESSING. PAXTON AND GALLAGHER CO., Omaha, Nebr.
Filed February 2, 1933. Serial No. 334,572. PUBLISHED MAY 30, 1933. Class 46.

305,302. AN ENERGIZING COMPOUND TO BE MIXED WITH GASOLINE AND MOTOR LUBRICATING OIL. CARL WOLF MILLER, Philadelphia, Pa.
Filed January 25, 1933. Serial No. 334,315. PUBLISHED MAY 23, 1933. Class 6.

305,303. COMPOSITION FOR INCORPORATION INTO FUEL OIL TO INCREASE COMBUSTION AND THE HEATING EFFECTS DERIVED FROM SAID OIL. FUEL-TONE, INC., Rockville Center, N. Y.
Filed January 27, 1933. Serial No. 334,391. PUBLISHED MAY 16, 1933. Class 6.

305,304. SENSITIZED PHOTOGRAPHIC PAPERS, PLATES, FILMS, ETC. GEVAERT PHOTO-PRODUCTEN, NAAMLOOZE VENNOOTSCHAP (PHOTO-PRODUITS GEVAERT) SOCIETE ANONYME, Oude-God, Belgium.
Filed January 27, 1933. Serial No. 334,393. PUBLISHED MAY 30, 1933. Class 26.

305,305. LUBRICATING OIL. WARREN REFINING COMPANY, Warren, Pa.
Filed January 25, 1933. Serial No. 334,329. PUBLISHED MAY 23, 1933. Class 15.

305,306. ARTIFICIAL TEETH, PORCELAIN JACKET CROWNS, PORCELAIN INLAYS, AND PORCELAIN BRIDGES. IRVING LANDO, doing business as Porcelac Company, Brooklyn, N. Y.
Filed January 24, 1933. Serial No. 334,285. PUBLISHED MAY 30, 1933. Class 44.

305,307. ELECTRIC LOCOMOTIVE HEADLIGHTS, AIRPORT FLOODLIGHTS, ETC. THE PYLE-NATIONAL COMPANY, Chicago, Ill.
Filed January 23, 1933. Serial No. 334,264. PUBLISHED MAY 30, 1933. Class 21.

305,308. FRESH CAULIFLOWER. PORTLAND CAULIFLOWER GROWERS ASSN., Portland, Oreg.
Filed January 23, 1933. Serial No. 334,268. PUBLISHED MAY 30, 1933. Class 46.

305,309. POLISHING PREPARATION FOR AUTOMOBILE BODIES, FLOORS, AND FURNITURE. PAROGLAS PRODUCTS, Buffalo, N. Y.
Filed January 14, 1933. Serial No. 333,943. PUBLISHED MAY 23, 1933. Class 16.

305,310. CANNED VEGETABLES—NAMELY, PEAS. STOKELY BROTHERS AND COMPANY, Louisville, Ky.
Filed January 13, 1933. Serial No. 333,901. PUBLISHED MAY 30, 1933. Class 46.

305,311. CONFECTIONERY BASE, CONSISTING OF BUTTER, FAT, SOLIDS NOT FATS, AND SUGAR. WHITE-STOKES COMPANY, INCORPORATED, Chicago, Ill.
Filed January 11, 1933. Serial No. 333,842. PUBLISHED MAY 30, 1933. Class 46.

305,312. BATH EMULSION AND LOTION. HARRY I. GREENSPAN, New York, N. Y.
Filed December 31, 1932. Serial No. 333,552. PUBLISHED MAY 30, 1933. Class 6.

305,313. HEADING FOR A SERIES OF ARTICLES. CHRISTY WALSH, New York, N. Y.
Filed December 8, 1932. Serial No. 332,974. PUBLISHED MAY 23, 1933. Class 38.

305,314. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT AND FOR BREW CONTAINING LESS THAN ONE-HALF OF ONE PER CENT OF ALCOHOL BY VOLUME. ALTOONA MALT COMPANY, Altoona, Pa.
Filed December 29, 1932. Serial No. 333,456. PUBLISHED MAY 30, 1933. Class 48.

305,315. COLLOIDAL SULPHUR BEING A CHEMICAL SUBSTANCE FOR USE IN MANUFACTURES. ELECTRO CHEMICAL PROCESSES LIMITED, London, England.
Filed December 29, 1932. Serial No. 333,461. PUBLISHED MAY 16, 1933. Class 6.

305,316. LAXATIVE COUGH SYRUP. M & G COMPANY, Henryetta, Okla.
Filed March 17, 1933. Serial No. 335,785. PUBLISHED MAY 23, 1933. Class 6.

305,317. NATURAL AND SYNTHETIC OILS SUITABLE FOR PERFUMING PURPOSES. VAN AMERINGEN-HAEBLER, INC., New York, N. Y.
Filed March 17, 1933. Serial No. 335,792. PUBLISHED MAY 23, 1933. Class 6.

305,318. INSECTICIDE PREPARATION FOR THE DESTRUCTION OF INSECTS AND LARVAE OF INSECTS WHICH WINTER IN THE BARK OF TREES. HERCULES POWDER COMPANY, Wilmington, Del.
Filed March 18, 1933. Serial No. 335,822. PUBLISHED MAY 16, 1933. Class 6.

305,319. PERFUME. LOS ANGELES SOAP COMPANY, Los Angeles, Calif.
Filed March 18, 1933. Serial No. 335,829. PUBLISHED MAY 23, 1933. Class 6.

305,320. AIR CONDITIONING UNITS. MONTAGUE ADAIR, Brooklyn, N. Y.
Filed March 20, 1933. Serial No. 335,841. PUBLISHED MAY 30, 1933. Class 34.

305,321. RADIATOR GLYCERINE IN THE NATURE OF AN ANTI-FREEZE PREPARATION. LOS ANGELES SOAP COMPANY, Los Angeles, Calif.
Filed March 20, 1933. Serial No. 335,869. PUBLISHED MAY 23, 1933. Class 6.

305,322. CELERY. THE PALMER CORPORATION, Chicago, Ill.
Filed March 20, 1933. Serial No. 335,878. PUBLISHED MAY 30, 1933. Class 46.

305,323. ANTI-CORROSIVE COMPOUNDS. CHESTER A. POLING, INC., New York, N. Y.
Filed March 20, 1933. Serial No. 335,882. PUBLISHED MAY 23, 1933. Class 6.

305,324. CONCENTRATED PREPARATION OF PROTEIN-CALCIUM PHOSPHATE, LACTOSE AND THE VARIOUS MINERAL SALTS OF MILK USED AS A TONIC AND BODY BUILDER. PROTEIN MINERAL CO., INC., New York, N. Y.
Filed March 20, 1933. Serial No. 335,883. PUBLISHED MAY 23, 1933. Class 6.

305,325. ELECTRICALLY OPERATED APPARATUS FOR SPRAYING LIQUIDS AND PARTS THEREOF. MATTHEW RUSSELL, doing business as X-Termador Company, Springfield, Mass.
Filed March 18, 1933. Serial No. 335,906. PUBLISHED MAY 30, 1933. Class 21.

305,326. LAXATIVE IN LIQUID FORM. PARKE, DAVIS & Co., Detroit, Mich.
Filed March 21, 1933. Serial No. 335,941. PUBLISHED MAY 23, 1933. Class 6.

305,327. MEDICINAL PREPARATION FOR THE RELIEF OF HEADACHES, NEURALGIA, MUSCULAR PAINS, INFLUENZA, AND FEVER. AUGUSTUS H. FRYE, doing business as Exit Manufacturing Co., Griffin, Ga.
Filed February 18, 1933. Serial No. 335,088. PUBLISHED MAY 23, 1933. Class 6.

305,328. WINES. J. SANTAMARIA Y CIA, S. EN C., Jerez de la Frontera, Spain.
Filed February 20, 1933. Serial No. 335,139. PUBLISHED MAY 30, 1933. Class 47.

305,329. HERB TEA USED AS A LAXATIVE. GARFIELD TEA COMPANY, Brooklyn, N. Y.
Filed February 21, 1933. Serial No. 335,161. PUBLISHED MAY 16, 1933. Class 6.

305,330. PRINTED FORM LETTERS USED IN COLLECTION SERVICE. WILLIAM L. ALTHEN, doing business as National Guaranty Credit Association, Kansas City, Mo.
Filed February 23, 1933. Serial No. 335,182. PUBLISHED MAY 30, 1933. Class 38.

305,331. WEEKLY MAGAZINE. NEWS-WEEK INC., New York, N. Y.
Filed February 24, 1933. Serial No. 335,245. PUBLISHED MAY 23, 1933. Class 38.

305,332. PLASTIC SOLDER. THE COBAR CHEMICAL COMPANY, Massillon, Ohio.
Filed February 25, 1933. Serial No. 335,272. PUBLISHED MAY 30, 1933. Class 5.

305,333. INSECTICIDAL COMPOSITIONS, PARTICULARLY MIXTURES OF SULFUR AND MANGANESE ARSENATE. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed March 2, 1933. Serial No. 335,417. PUBLISHED MAY 23, 1933. Class 6.

305,334. HECTOGRAPH MATERIALS—NAMELY, GELATIN PADS. FRED B. CANODE, doing business as Ink Specialties Co., Chicago, Ill.
Filed March 2, 1933. Serial No. 335,482. PUBLISHED MAY 23, 1933. Class 37.

305,335. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, SYRUPS THEREFOR, AND GINGER ALE. RATHJEN BROS., INC., San Francisco, Calif.
Filed March 2, 1933. Serial No. 335,485. PUBLISHED MAY 30, 1933. Class 45.

305,336. ELECTRIC INCANDESCENT LAMPS. NATIONAL SOLAR LAMP CO., Buffalo, N. Y.
Filed March 6, 1933. Serial No. 335,518. PUBLISHED MAY 30, 1933. Class 21.

305,337. PROPHYLACTIC RUBBER ARTICLES FOR THE PREVENTION OF CONTAGIOUS DISEASES. YOUNGS RUBBER CORPORATION, INC., New York, N. Y.
Filed March 6, 1933. Serial No. 335,537. PUBLISHED MAY 30, 1933. Class 44.

305,338. ANTI-FREEZE COMPOUND. STERLING PRODUCTS COMPANY, Easton, Pa.
Filed March 8, 1933. Serial No. 335,554. PUBLISHED MAY 16, 1933. Class 6.

305,339. COSMETIC COMPOUNDS—NAMELY, DARKENERS AND GROWERS FOR EYELASHES AND SHADOWERS FOR EYELIDS. CHARLOTTE MUNK, doing business as Lashtex Laboratories, New York, N. Y., assignor to Charles J. Bitowf, New York, N. Y.
Filed March 10, 1933. Serial No. 335,604. PUBLISHED MAY 30, 1933. Class 6.

305,340. FIBER BOARD FOR ELECTRICAL INSULATION. THE WEST VIRGINIA PULP & PAPER COMPANY, New York, N. Y.
Filed March 14, 1933. Serial No. 335,657. PUBLISHED MAY 23, 1933. Class 21.

305,341. MEDICINE FOR RELIEF OF PAIN. SAMUEL GOLDBERG, doing business as D'Ormont Laboratories, Inc., Philadelphia, Pa.
Filed March 15, 1933. Serial No. 335,671. PUBLISHED MAY 30, 1933. Class 6.

305,342. WAVE SET POWDER. ALEXANDER KANTAR, doing business as Hair Beauty Products Co., Pittsburgh, Pa.
Filed March 15, 1933. Serial No. 335,678. PUBLISHED MAY 16, 1933. Class 6.

305,343. PORTABLE LUBRICANT DISPENSING APPARATUS. LINCOLN ENGINEERING COMPANY, St. Louis, Mo.
Filed March 16, 1933. Serial No. 335,727. PUBLISHED MAY 30, 1933. Class 23.

305,344. PREPARATION USED IN THE TREATMENT OF COLDS. STERLING PRODUCTS (INCORPORATED), Wheeling, W. Va.
Filed March 16, 1933. Serial No. 335,748. PUBLISHED MAY 23, 1933. Class 6.

305,345. CONCERTINAS AND ACCORDIONS, THEIR CASINGS, FITTINGS, AND PARTS. TONK BROS. Co., Chicago, Ill.
Filed March 17, 1933. Serial No. 335,791. PUBLISHED MAY 30, 1933. Class 36.

305,346. PREPARATION FOR THE TREATMENT OF INTESTINAL AUTOINTOXICATION AND CONSTIPATION. C. E. JAMIESON & Co., Detroit, Mich.
Filed February 16, 1933. Serial No. 335,027. PUBLISHED MAY 16, 1933. Class 6.

305,347. CHOCOLATE COVERED SHERBET. TROPICAL ICE CREAM AND SHERBETS COMPANY, INC., Tampa, Fla.
Filed February 15, 1933. Serial No. 335,014. PUBLISHED MAY 30, 1933. Class 46.

305,348. RAZOR BLADES. FABRIQUE NATIONALE DE LAMES DE RASOIRS, Cravanche/Belfort and Paris, France.
Filed February 14, 1933. Serial No. 334,957. PUBLISHED MAY 30, 1933. Class 23.

305,349. TOILET SOAPS AND SHAVING SOAP. PINAUD, INC., New York, N. Y.
Filed February 10, 1933. Serial No. 334,844. PUBLISHED MAY 30, 1933. Class 4.

305,350. WHISKY, GIN, BRANDY, AND RUM. KABUSHIKI KAISHA KOTOBUKIYA, Osaka, Japan.
Filed February 8, 1933. Serial No. 334,753. PUBLISHED MAY 30, 1933. Class 49.

305,351. TOOTH PASTE. MCCARTHY BROTHERS, Milwaukee, Wis.
Filed February 6, 1933. Serial No. 334,685. PUBLISHED MAY 16, 1933. Class 6.

305,352. CONDUITS HAVING INCORPORATED THEREIN A PLASTIC COMPOUND TO INSULATE THE CONDUIT AGAINST ELECTRICAL EMANATIONS OR LIQUIDS, AND ADAPTED FOR USE IN CONNECTION WITH INTERNAL COMBUSTION MOTORS. BREEZE CORPORATIONS, INC., Newark, N. J.
Filed March 18, 1933. Serial No. 335,803. PUBLISHED MAY 23, 1933. Class 21.

305,353. LEATHER. SCHWABE LEATHER COMPANY, Milwaukee, Wis.
Filed March 18, 1933. Serial No. 335,798. PUBLISHED MAY 30, 1933. Class 1.

305,354. SPECIAL LIVER-STOMACH INTERACTION PRODUCT, IRON AMMONIUM CITRATE, GREEN, AND B VITAMIN CONCENTRATE. ELI LILLY AND COMPANY, Indianapolis, Ind.
Filed March 17, 1933. Serial No. 335,784. PUBLISHED MAY 16, 1933. Class 6.

305,355. KIPPERED HERRING, AND KIPPER SNACKS. STROHMEYER & ARPE COMPANY, New York, N. Y.
Filed March 16, 1933. Serial No. 335,749. PUBLISHED MAY 30, 1933. Class 46.

305,356. POLISH FOR FURNITURE, WOODWORK, FLOORS, AUTOMOBILES, AND LINOLEUMS. SCHWABE PAPER CO., Lincoln, Nebr.
Filed March 16, 1933. Serial No. 335,705. PUBLISHED MAY 23, 1933. Class 16.

305,357. EARTHENWARE NESTED BOWL SETS AND SEMI-PORCELAIN CUPS AND SAUCERS, AND GLAZED STONEWARE FEED CUPS FOR RABBITS AND PET STOCK. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 15, 1933. Serial No. 335,699. PUBLISHED MAY 30, 1933. Class 30.

305,358. LAXATIVE AND DIURETIC MEDICINAL TEA. THE KNOX COMPANY, Kansas City, Mo.
Filed March 15, 1933. Serial No. 335,683. PUBLISHED MAY 16, 1933. Class 6.

305,359. LUBRICATING OIL. THE ATLAS OIL COMPANY, Cleveland, Ohio.
Filed March 14, 1933. Serial No. 335,628. PUBLISHED MAY 23, 1933. Class 15.

305,360. PERFUME, TOILET WATER, FACE POWDER, COMPACT POWDER, SACHET POWDER, TALCUM POWDER, BRILLIANTINE, EAU DE COLOGNE, LOTION FOR THE HAIR, ROUGE, AND LIP STICK. COTY, INC., Wilmington, Del., and New York, N. Y.
Filed March 8, 1933. Serial No. 335,548. PUBLISHED MAY 16, 1933. Class 6.

305,361. FACE POWDERS. HINDE AMBROSIA, INC., New York, N. Y.
Filed March 6, 1933. Serial No. 335,506. PUBLISHED MAY 16, 1933. Class 6.

305,362. GAS RANGES. EASTERN OUTFITTING CO. OF LOS ANGELES, CAL., Los Angeles, Belvidere, Pasadena, and Huntington Park, Calif.
Filed March 6, 1933. Serial No. 335,500. PUBLISHED MAY 30, 1933. Class 34.

305,363. COLLOIDAL WAX SIZING AND FINISHING MATERIAL. PAPER MAKERS CHEMICAL CORPORATION, Wilmington, Del.
Filed February 25, 1933. Serial No. 335,289. PUBLISHED MAY 16, 1933. Class 6.

305,364. COLLOIDAL WAX SIZING AND FINISHING MATERIAL. PAPER MAKERS CHEMICAL CORPORATION, Wilmington, Del.
Filed February 25, 1933. Serial No. 335,288. PUBLISHED MAY 16, 1933. Class 6.

305,365. PIGMENT LAKES SUITABLE FOR USE IN THE PRODUCTION OF PAINTS, PRINTING INKS, PRINTING PASTES, STAINS, AND FOR OTHER USES IN THE INDUSTRIAL ARTS. H. A. METZ & Co., INC., New York, N. Y.
Filed February 25, 1933. Serial No. 335,281. PUBLISHED MAY 16, 1933. Class 6.

305,366. MILK OF MAGNESIA TABLET. REMINGTON LABORATORIES, INC., New York, N. Y.
Filed February 24, 1933. Serial No. 335,248. PUBLISHED MAY 16, 1933. Class 6.

305,367. READY MIXED PAINTS AND FOR PAINT DRYER. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed February 20, 1933. Serial No. 335,141. PUBLISHED APRIL 18, 1933. Class 16.

305,368. RADIO RECEIVING SETS AND PARTS THEREOF. RADIO CHASSIS, INC., New York, N. Y.
Filed March 24, 1933. Serial No. 336,053. PUBLISHED MAY 23, 1933. Class 21.

305,369. GRAND PIANOS. ÆOLIAN AMERICAN CORPORATION, New York, N. Y.
Filed March 25, 1933. Serial No. 336,066. PUBLISHED MAY 30, 1933. Class 36.

305,370. LUBRICATING OILS. ALLIED PETROLEUM CORPORATION, Warren, Pa.
Filed March 27, 1933. Serial No. 336,105. PUBLISHED MAY 23, 1933. Class 15.

305,371. PAPER NAPKINS AND PAPER TOWELS. DANIELS MANUFACTURING COMPANY, Rhinelander, Wis.
Filed March 27, 1933. Serial No. 336,112. PUBLISHED MAY 23, 1933. Class 37.

305,372. SEASONING FOR FOODS, INCLUDING FOOD BEVERAGES. L. N. RENAULT & SONS, INC., Egg Harbor City, N. J.
Filed March 27, 1933. Serial No. 336,131. PUBLISHED MAY 30, 1933. Class 46.

305,373. HOSPITAL AND PHYSICIANS' FURNITURE, ASEPTIC METAL FURNITURE FOR HOSPITAL AND PHYSICIANS' USE. SCIATTIC CORPORATION OF AMERICA, Philadelphia, Pa.
Filed March 27, 1933. Serial No. 336,139. PUBLISHED MAY 30, 1933. Class 44.

305,374. ELECTRIC ROOM OR SPACE HEATERS. EDWIN L. WIEGAND COMPANY, Pittsburgh, Pa.
Filed March 20, 1933. Serial No. 335,898. PUBLISHED MAY 30, 1933. Class 21.

305,375. SALESBLANK FORMS AND HOLDERS THEREFOR. THE MCCASKEY REGISTER COMPANY, Alliance, Ohio.
Filed March 18, 1933. Serial No. 335,905. PUBLISHED MAY 30, 1933. Class 37.

305,376. ARTISTIC DRAWINGS FOR TEXTILE DESIGNS. ETHEL TRAPHAGEN LEIGH, doing business as The Traphagen Commercial Textile Studio, New York, N. Y.
Filed March 18, 1933. Serial No. 335,909. PUBLISHED MAY 23, 1933. Class 38.

305,377. ANTISEPTICS AND GERMICIDES. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y.
Filed March 23, 1933. Serial No. 336,016. PUBLISHED MAY 23, 1933. Class 6.

305,378. ANTISEPTICS, GERMICIDES, AND A PREPARATION FOR ORAL HYGIENE. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y.
Filed March 23, 1933. Serial No. 336,017. PUBLISHED MAY 23, 1933. Class 6.

305,379. RAZOR BLADES, RAZORS, AND RAZOR STROPPING MACHINES. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed March 23, 1933. Serial No. 336,018. PUBLISHED MAY 30, 1933. Class 23.

305,380. TONIC STIMULANTS. COLE CHEMICAL COMPANY, Wilmington, Del., and St. Louis, Mo.
Filed March 24, 1933. Serial No. 336,035. PUBLISHED MAY 23, 1933. Class 6.

305,381. ELECTRIC MOTORS. THOMAS A. EDISON, INCORPORATED, West Orange, N. J.
Filed March 24, 1933. Serial No. 336,038. PUBLISHED MAY 23, 1933. Class 21.

305,382. MANICURE MACHINES. THE SAN ELECTRO COMPANY, Cleveland, Ohio.
Filed March 20, 1933. Serial No. 335,889. PUBLISHED MAY 30, 1933. Class 44.

305,383. DENTIFRICES, TOOTH POWDER, ASTRINGENTS, AND MOUTH WASHES. THE R. L. WATKINS COMPANY, New York, N. Y.
Filed March 18, 1933. Serial No. 335,840. PUBLISHED MAY 16, 1933. Class 6.

305,384. PARLOR GAME PLAYED WITH CHARTS AND DRAWINGS. CHARLES L. HOWARD, Chicago, Ill..
Filed March 18, 1933. Serial No. 335,825. PUBLISHED MAY 30, 1933. Class 22.

305,385. BLUEING. THE HEWITT BROS. SOAP COMPANY, doing business as Launette Products Co., Dayton, Ohio.
Filed March 18, 1933. Serial No. 335,823. PUBLISHED MAY 16, 1933. Class 6.

305,386. "B" BATTERY ELIMINATORS. STEPHEN F. JAMES, Chicago, Ill.
Filed October 12, 1932. Serial No. 331,185. PUBLISHED MAY 23, 1933. Class 21.

305,387. PREPARATION FOR USE AS A RODENT EXTERMINATOR. SKAT-A-RAT CORPORATION, Providence, R. I.
Filed October 27, 1932. Serial No. 331,625. PUBLISHED JANUARY 24, 1933. Class 6.

305,388. LUBRICATING AND FUEL OILS. SILICA PRODUCTS CORPORATION, New York, N. Y.
Filed October 27, 1932. Serial No. 331,629. PUBLISHED MAY 23, 1933. Class 15.

305,389. CANNED EVAPORATED MILK. THE OHIO DRIED FRUIT COMPANY, Youngstown, Ohio.
Filed November 3, 1932. Serial No. 331,869. PUBLISHED MAY 30, 1933. Class 46.

305,390. ELECTRICAL FIRE ALARM EQUIPMENT AND ATTACHMENTS FOR CAUSING RESPONSE TO WATER FLOW IN SPRINKLER SYSTEMS. THE GAMEWELL COMPANY, Newton, Mass.
Filed November 4, 1932. Serial No. 331,891. PUBLISHED MAY 23, 1933. Class 21.

305,391. PAINTS IN PASTE, SEMI-LIQUID, OR READY-MIXED FORM; VARNISHES, LACQUERS, PAINT ENAMELS, JAPANS, STAINS, AND PAINT FILLERS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed November 7, 1932. Serial No. 331,963. PUBLISHED MAY 23, 1933. Class 16.

305,392. TABLETS MANUFACTURED FROM KELP. PROTECTIVE DIET LEAGUE OF CALIFORNIA, Los Angeles, Calif.
Filed November 23, 1932. Serial No. 332,420. PUBLISHED MAY 23, 1933. Class 6.

305,393. COFFEE AND TEA. GOLDEN BEAR COFFEE CO., LTD., Los Angeles, Calif.
Filed November 28, 1932. Serial No. 332,527. PUBLISHED MAY 30, 1933. Class 46.

305,394. SHOE MACHINERY—NAMELY, SHOE MACHINES DESIGNED TO MAKE AND DRIVE PEGS OR BRADS. THE AUTO-SOLER COMPANY, Atlanta, Ga.
Filed December 7, 1932. Serial No. 332,829. PUBLISHED MAY 30, 1933. Class 23.

305,395. TOP DRESSING, DRY CLEANER, ETC. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed December 7, 1932. Serial No. 332,853. PUBLISHED MAY 30, 1933. Class 4.

305,396. PERFUMES AND TOILET WATERS. HENRI BENDEL COMPANY, Paris, France.
Filed December 9, 1932. Serial No. 332,910. PUBLISHED MAY 16, 1933. Class 6.

305,397. TRADING STAMPS AND COUPONS. CARL JORGENSEN, doing business as American Home Trading System, New York, N. Y.
Filed April 15, 1933. Serial No. 336,828. PUBLISHED MAY 23, 1933. Class 38.

305,398. ELECTRICALLY EQUIPPED GAME OF THE TALKING BOARD TYPE. WM. A. FULD, doing business as William Fuld, Baltimore, Md.
Filed April 15, 1933. Serial No. 336,821. PUBLISHED MAY 30, 1933. Class 22.

305,399. STABILIZING COMPOUND FOR DOUGH. JOS LOWE CORPORATION, Brooklyn, N. Y.
Filed April 15, 1933. Serial No. 336,831. PUBLISHED MAY 30, 1933. Class 46.

305,400. HAIR STIMULANT AND TONIC. THE GOLDEN PRIDE LABORATORY, Laurel Springs, N. J.
Filed April 17, 1933. Serial No. 336,865. PUBLISHED MAY 30, 1933. Class 6.

305,401. STORAGE BATTERIES AND RADIO RECEIVING SETS. HERBERT L. NELSON, doing business as Detroiter Battery and Radio Company, Detroit, Mich.
Filed April 15, 1933. Serial No. 336,834. PUBLISHED MAY 30, 1933. Class 21.

305,402. SOAP. IOWA SOAP COMPANY, Burlington, Iowa.
Filed April 17, 1933. Serial No. 336,870. PUBLISHED MAY 30, 1933. Class 4.

305,403. PAINT TO BE APPLIED TO THE SURFACE OF METAL FOR SOUND DEADENING PURPOSES. JAY R. SHENSELBY, doing business as Railway Paint Co., Chicago, Ill.
Filed April 17, 1933. Serial No. 336,886. PUBLISHED MAY 30, 1933. Class 16.

305,404. PERIODICAL. THOMAS PUBLISHING COMPANY, New York, N. Y.
Filed April 18, 1933. Serial No. 336,919. PUBLISHED MAY 30, 1933. Class 38.

305,405. SMOKING PIPES. JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa.
Filed April 18, 1933. Serial No. 336,920. PUBLISHED MAY 30, 1933. Class 8.

305,406. SMOKING TOBACCO. JOHN WANAMAKER PHILADELPHIA, Philadelphia, Pa.
Filed April 18, 1933. Serial No. 336,921. PUBLISHED MAY 30, 1933. Class 17.

305,407. CIGARS. THE DRIEBL-WEMMER GILBERT CORP., Detroit, Mich.
Filed April 19, 1933. Serial No. 336,933. PUBLISHED MAY 30, 1933. Class 17.

305,408. BEER, ALE, AND PORTER OF ALCOHOLIC CONTENT NOT HIGHER THAN THAT PERMITTED BY LAW. MILES BREWING COMPANY, INC., New York, N. Y.
Filed April 19, 1933. Serial No. 336,949. PUBLISHED MAY 30, 1933. Class 48.

305,409. CIGARS. H. TRAIBER & COMPANY, INCORPORATED, Boston, Mass.
Filed April 19, 1933. Serial No. 336,969. PUBLISHED MAY 30, 1933. Class 17.

305,410. LAXATIVE. F. H. PFUNDER, INC., Minneapolis, Minn.
Filed April 19, 1933. Serial No. 336,958. PUBLISHED MAY 30, 1933. Class 6.

305,411. SCALP PREPARATION TO PROMOTE THE HEALTH OF THE SCALP. LAURA L. PHILLIPS, New York, N. Y.
Filed September 12, 1932. Serial No. 330,275. PUBLISHED MAY 16, 1933. Class 6.

305,412. PREPARATION FOR RESTORING THE ORIGINAL LUSTRE OF VARNISHED AND OTHER SURFACES. EMULSO CORPORATION, Buffalo, N. Y.
Filed September 14, 1932. Serial No. 330,341. PUBLISHED MAY 23, 1933. Class 16.

305,413. ELECTRICAL FIRE ALARM SYSTEMS AND PARTS THEREOF. THE GAMEWELL COMPANY, Newton, Mass.
Filed September 19, 1932. Serial No. 330,476. PUBLISHED MAY 23, 1933. Class 21.

305,414. PAPER BOX LINERS AND SHEETS. HARRY M. HITCHINS, Minneapolis, Minn.
Filed September 22, 1932. Serial No. 330,573. PUBLISHED MAY 23, 1933. Class 37.

305,415. PREPARATION FOR EXTERMINATING RODENTS. THE C. B. DOLGE COMPANY, Westport, Conn.
Filed September 24, 1932. Serial No. 330,622. PUBLISHED NOVEMBER 22, 1932. Class 6.

305,416. COSMETIC CREAMS. VICTOR W. TITUS, New York, N. Y.
Filed October 4, 1932. Serial No. 330,939. PUBLISHED MAY 30, 1933. Class 6.

305,417. DRY YEAST. CONSUMERS-PEOPLES PRODUCTS CO., INC., New York and Brooklyn, N. Y.
Filed October 8, 1932. Serial No. 331,075. PUBLISHED MAY 30, 1933. Class 46.

305,418. PAPER STOCK BEATING AND REFINING MACHINES. MORDEN MACHINES CO., Portland, Oreg.
Filed October 11, 1932. Serial No. 331,162. PUBLISHED MAY 30, 1933. Class 23.

305,419. BI-WEEKLY MAGAZINE. ENTERTAINMENT PUBLICATIONS CORPORATION, New York, N. Y.
Filed April 14, 1933. Serial No. 336,758. PUBLISHED MAY 23, 1933. Class 38.

305,420. PAPER DRINKING CUPS. BOSTON ENVELOPE COMPANY, doing business as Boston Drinking Cup Company, Jamaica Plain, Boston, Mass.
Filed April 14, 1933. Serial No. 336,749. PUBLISHED MAY 30, 1933. Class 2.

305,421. PAPER DRINKING CUPS. BOSTON ENVELOPE COMPANY, doing business as Boston Drinking Cup Company, Jamaica Plain, Boston, Mass.
Filed April 14, 1933. Serial No. 336,748. PUBLISHED May 30, 1933. Class 2.

305,422. LUBRICATING OILS. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed April 14, 1933. Serial No. 336,797. PUBLISHED MAY 23, 1933. Class 15.

305,423. LUBRICATING OILS. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed April 14, 1933. Serial No. 336,796. PUBLISHED MAY, 23, 1933. Class 15.

305,424. LUBRICATING OILS. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed April 14, 1933. Serial No. 336,795. PUBLISHED MAY 23, 1933. Class 15.

305,425. LUBRICATING OILS. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed April 14, 1933. Serial No. 336,794. PUBLISHED MAY 23, 1933. Class 15.

305,426. LUBRICATING OILS. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed April 14, 1933. Serial No. 336,793. PUBLISHED MAY 23, 1933. Class 15.

305,427. LUBRICATING OILS. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed April 14, 1933. Serial No. 336,799. PUBLISHED MAY 23, 1933. Class 15.

305,428. LUBRICATING OILS. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed April 14, 1933. Serial No. 336,798. PUBLISHED MAY 23, 1933. Class 15.

305,429. PEAT MOSS OR GROUND PEAT. G. WALTER WINTERSCHEIDT, Topeka, Kans.
Filed April 14, 1933. Serial No. 336,803; PUBLISHED MAY 30, 1933. Class 1.

305,430. OPTICAL LENSES, FRAMES, AND MOUNTINGS. THE WALMAN OPTICAL CO., Minneapolis, Minn.
Filed April 13, 1933. Serial No. 336,742. PUBLISHED MAY 30, 1933. Class 26.

305,431. PERIODICAL. STREET & SMITH PUBLICATIONS, INC., New York, N. Y.
Filed April 13, 1933. Serial No. 336,738. PUBLISHED MAY 23, 1933. Class 38.

305,432. CARBURETTORS. SOCIETE DU CARBURATEUR BLERIOT, Paris, France.
Filed April 13, 1933. Serial No. 336,736. PUBLISHED MAY 30, 1933. Class 23.

305,433. GASOLINE. RED WING SERVICE STATIONS, INC., Rochester, N. Y.
Filed April 13, 1933. Serial No. 336,723. PUBLISHED MAY 30, 1933. Class 15.

305,434. WHISKEY. GEO. BENZ & SONS, St. Paul, Minn.
Filed April 13, 1933. Serial No. 336,708. PUBLISHED MAY 30, 1933. Class 49.

305,435. COMBINATION ELECTRIC FLOOR POLISHER, SCRUBBER, SANDER, AND GRINDER. CONTINENTAL CAR-NA-VAR CORPORATION, Brazil, Ind.
Filed April 13, 1933. Serial No. 336,704. PUBLISHED MAY 30, 1933. Class 21.

305,436. LUBRICATING OILS. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed April 14, 1933. Serial No. 336,792. PUBLISHED MAY 23, 1933. Class 15.

305,437. LUBRICATING OILS. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed April 14, 1933. Serial No. 336,791. PUBLISHED MAY 23, 1933. Class 15.

305,438. LUBRICATING OILS. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed April 14, 1933. Serial No. 336,790. PUBLISHED MAY 23, 1933. Class 15.

305,439. COAL. THE ROUNDUP COAL MINING CO., Roundup, Mont., and Omaha, Nebr.
Filed April 14, 1933. Serial No. 336,787. PUBLISHED MAY 30, 1933. Class 1.

305,440. FOOD FOR DOGS. THE RATH PACKING COMPANY, Waterloo, Iowa.
Filed April 14, 1933. Serial No. 336,783. PUBLISHED MAY 30, 1933. Class 46.

305,441. WEEKLY THEATRICAL PUBLICATION. NABOBWOOD NEWS PUBLISHING CO. INC., New York, N. Y.
Filed April 14, 1933. Serial No. 336,780. PUBLISHED MAY 23, 1933. Class 38.

305,442. TEA. SANITARY GROCERY COMPANY, INCORPORATED, Washington, D. C.
Filed June 9, 1932. Serial No. 327,854. PUBLISHED JULY 26, 1932. Class 46.

305,443. GERMICIDE, DISINFECTANT, AND DEODORANT. ONOTA CHEMICAL COMPANY, Pittsfield, Mass.
Filed May 21, 1932. Serial No. 327,320. PUBLISHED JANUARY 3, 1933. Class 6.

305,444. HAIR DYE OR COLORING, STAIN REMOVER, SHAMPOO, BLONDE SHAMPOO. NORMAN W. SIEBRAS, doing business as Lady Lennox Company, St. Louis, Mo., assignor to Wellington K. Jacobs, St. Louis, Mo.
Filed April 8, 1932. Serial No. 325,922. PUBLISHED MAY 23, 1933. Class 6.

305,445. TOILET PREPARATIONS—NAMELY, TOOTH-PASTE, MOUTH-WASH, OINTMENT FOR ALL SKIN AILMENTS, PILLS, TABLETS, AND POWDERS FOR THE TREATMENT OF SOUR STOMACH AND GASEOUS DISTURBANCES DUE TO ACID. BODE DRUG COMPANY, INC., New Brunswick, N. J.
Filed March 21, 1932. Serial No. 325,315. PUBLISHED MAY 16, 1933. Class 6.

305,446. PAINT PRIMERS, LACQUERS, AND FINISHING COATS IN THE NATURE OF PAINT, VARNISH, OR LACQUER. GRIDLEY-GRUNOW COMPANY, Chicago, Ill.
Filed March 16, 1932. Serial No. 325,166. PUBLISHED MAY 30, 1933. Class 16.

305,447. CORDAGE CONSTRUCTED FROM COTTON YARN THREADS, RAYON THREADS, AND SILK THREADS. CHICAGO PRINTED STRING CO., Chicago, Ill.
Filed March 4, 1932. Serial No. 324,777. PUBLISHED MAY 30, 1933. Class 7.

305,448. MALT SYRUP. BEST MALT PRODUCTS COMPANY, Chicago, Ill.
Filed January 2, 1932. Serial No. 322,624. PUBLISHED MAY 30, 1933. Class 46.

305,449. AIR CONDITIONERS—NAMELY, APPARATUS FOR CIRCULATING, HEATING, COOLING, AND/OR HUMIDIFYING AIR IN A ROOM. HEXCEL RADIATOR COMPANY, Milwaukee, Wis.
Filed December 2, 1931. Serial No. 321,668. PUBLISHED MAY 30, 1933. Class 34.

305,450. TAXI-CABS. PALACE CAB COMPANY, New York, N. Y.
Filed November 19, 1931. Serial No. 321,294. PUBLISHED MAY 30, 1933. Class 19.

305,451. COCOANUT COOKIES. BATTLE CREEK BISCUIT COMPANY, Battle Creek, Mich.
Filed October 27, 1931. Serial No. 320,488. PUBLISHED MAY 30, 1933. Class 46.

305,452. ICE CREAM. CLOQUET CREAMERY, Cloquet, Minn.
Filed September 28, 1931. Serial No. 319,473. PUBLISHED MARCH 1, 1932. Class 46.

305,453. APPARATUS FOR INTESTINAL AND VAGINAL TREATMENT AND MEDICAL APPARATUS AND INSTRUMENTS ESPECIALLY FOR USE IN GIVING ENEMAS. EDUARD STIEBER, Nuremberg, Germany.
Filed June 12, 1931. Serial No. 315,774. PUBLISHED MAY 30, 1933. Class 44.

305,454. DRESSED CHICKENS. MISSOURI STATE CHICKERIES, Jefferson City, Mo.
Filed March 27, 1931. Serial No. 312,616. PUBLISHED MAY 30, 1933. Class 46.

305,455. COSMETIC—NAMELY, EYEBROW, AND EYELASH PENCILS. FRACY, INC., New York, N. Y. assignor to Individual Cosmetics Corporation, New York, N. Y., a Corporation of New York.
Filed February 19, 1931. Serial No. 311,237. PUBLISHED MAY 16, 1933. Class 6.

305,456. RADIO RECEIVING SETS. THE CROSLEY RADIO CORPORATION, Cincinnati, Ohio.
Filed June 20, 1930. Serial No. 302,627. PUBLISHED MAY 30, 1933. Class 21.

305,457. IMPERVIOUS FILM COATINGS IN THE FORM OF LACQUERS. BERVOLITE LACQUER COMPANY, North Chicago, Ill.
Filed March 31, 1930. Serial No. 298,139. PUBLISHED MARCH 8, 1932. Class 16.

305,458. MICROSCOPES, MICROSCOPE OUTFITS, AND MICROSCOPE SLIDES AND ACCESSORIES. THE NEWMAN-STERN COMPANY, Cleveland, Ohio.
Filed August 25, 1932. Serial No. 329,835. PUBLISHED MAY 23, 1933. Class 26.

305,459. ARTISTS' BRUSHES. JACK WICHMAN, doing business as Penguin, San Francisco, Calif.
Filed July 25, 1932. Serial No. 329,069. PUBLISHED MAY 30, 1933. Class 29.

305,460. COFFEE. STUART A. RHODES, doing business as The Sedohr Coffee Company, New York, N. Y.
Filed July 13, 1932. Serial No. 328,771. PUBLISHED MAY 30, 1933. Class 46.

305,461. TOILET TISSUE. MARGRET PAPER COMPANY, Philadelphia, Pa.
Filed April 4, 1933. Serial No. 336,398. PUBLISHED MAY 23, 1933. Class 37.

305,462. AUTOMOBILE POLISH. RACAR PRODUCTS CO., Seaford, N. Y.
Filed April 4, 1933. Serial No. 336,402. PUBLISHED MAY 23, 1933. Class 16.

305,463. GEARS, WORMS, WORMWHEELS; SPIRAL, SPUR, AND BEVEL GEARS; SPROCKETS FOR ROLLER AND SILENT CHAINS. SIER-BATH COMPANY, INC., New York, N. Y.
Filed April 7, 1933. Serial No. 336,548. PUBLISHED MAY 30, 1933. Class 23.

305,464. TOOTH, NAIL, HAIR, CLOTHES, HAT, COMPLEXION, BATH, EYEBROW, HAND, LATHER, MILITARY, AND SHAMPOO BRUSHES. UNITED DRUG COMPANY, Boston, Mass.
Filed April 7, 1933. Serial No. 336,549. PUBLISHED MAY 23, 1933. Class 29.

305,465. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. JAMESTOWN BREWING COMPANY, Jamestown, N. Y.
Filed April 7, 1933. Serial No. 336,534. PUBLISHED MAY 30, 1933. Class 48.

305,466. STORAGE BATTERIES. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed April 7, 1933. Serial No. 336,541. PUBLISHED MAY 30, 1933. Class 21.

305,467. PERIODICAL. NEW YORK WORLD-TELEGRAM CORPORATION, New York, N. Y.
Filed April 5, 1933. Serial No. 336,450. PUBLISHED MAY 23, 1933. Class 38.

305,468. LUBRICATING OILS AND GREASES. QUAKER STATE OIL REFINING CO., Oil City, Pa.
Filed April 6, 1933. Serial No. 336,514. PUBLISHED MAY 23, 1933. Class 15.

305,469. DOLLS. PAULINE MARGULIES, Brooklyn, N. Y.
Filed April 11, 1933. Serial No. 336,656. PUBLISHED MAY 30, 1933. Class 22.

305,470. WRITING PAPER. THE PLYMOUTH PAPER COMPANY, INC., Holyoke, Mass.
Filed April 11, 1933. Serial No. 336,661. PUBLISHED MAY 23, 1933. Class 37.

305,471. GELATIN. SWIFT AND COMPANY, Chicago, Ill.
Filed April 10, 1933. Serial No. 336,628. PUBLISHED MAY 30, 1933. Class 46.

305,472. SPARK PLUGS. AUBURN SPARK PLUG COMPANY, INC., Auburn, N. Y.
Filed April 11, 1933. Serial No. 336,634. PUBLISHED MAY 30, 1933. Class 21.

305,473. OINTMENT FOR THE FEET, SUNBURN, ETC. THE SCHOLL MFG. CO., INC., New York, N. Y., and Chicago, Ill.
Filed April 8, 1933. Serial No. 336,580. PUBLISHED MAY 30, 1933. Class 6.

305,474. MALT SYRUP FOR BEVERAGE MAKING AND FOOD PURPOSES. THE BURGER BROS. COMPANY, doing business as The Zinsinnati Malt Company, Cincinnati, Ohio.
Filed April 10, 1933. Serial No. 336,598. PUBLISHED MAY 30, 1933. Class 46.

305,475. BEDSTEADS, COUCHES, COTS, ETC. SIMMONS COMPANY, New York, N. Y.
Filed April 12, 1933. Serial No. 336,693. PUBLISHED MAY 30, 1933. Class 32.

305,476. POCKETBOOKS. JOHN WANAMAKER NEW YORK, New York, N. Y.
Filed April 7, 1933. Serial No. 336,552. PUBLISHED MAY 30, 1933. Class 3.

305,477. WRAPPING PAPER. GRIGGS, COOPER & CO., doing business as Sanitary Food Mfg. Co., St. Paul, Minn.
Filed April 12, 1933. Serial No. 336,678. PUBLISHED MAY 30, 1933. Class 37.

305,478. SANDWICH SPREAD, CONSISTING OF A MEAT PRODUCT. ERLIN MARKVAD, Rutherford, N. J.
Filed April 12, 1933. Serial No. 336,688. PUBLISHED MAY 30, 1933. Class 46.

305,479. SOAP. LOUIS FUNDLER, doing business as Babiglo Company, New York, N. Y.
Filed April 19, 1932. Serial No. 326,255. PUBLISHED MAY 30, 1933. Class 4.

305,480. WHOOPING COUGH MEDICINE. JACOB EPSTEIN, doing business as Gold Pharmacal Company, New York, N. Y.
Filed April 12, 1933. Serial No. 336,673. PUBLISHED MAY 30, 1933. Class 6.

305,481. LAUNDRY SOAP. SAMUEL KUBETZ, doing business as The Sunland Soap Company, Los Angeles, Calif.
Filed March 29, 1933. Serial No. 336,185. PUBLISHED MAY 30, 1933. Class 4.

305,482. PREPARATION FOR HYPERACIDITY, FLATULENCE, ETC. BLANCHE M. NORTHRUP, doing business as The Aino Company, Kansas City, Mo.
Filed March 29, 1933. Serial No. 336,190. PUBLISHED MAY 30, 1933. Class 6.

305,483. FACE AND BODY LOTION, AFTER-SHAVING LOTION, AFTER-BATH LOTION, ASTRINGENT, SHAMPOO. IRVING I. DAVIS, doing business as Bathglow Company, New York, N. Y.
Filed March 29, 1933. Serial No. 336,177. PUBLISHED MAY 23, 1933. Class 6.

305,484. FIRE DETECTING SYSTEMS COMPRISING ELECTRICALLY ACTUATED ALARM AND INDICATING APPARATUS TO INDICATE THE PRESENCE AND LOCATION OF FIRE UPON THE ACTUATION OF A HEAT RESPONSIVE MECHANISM INCLUDED IN THE ELECTRICAL SYSTEM. WALTER KIDDE & COMPANY, INC., New York, N. Y.
Filed March 29, 1933. Serial No. 336,184. PUBLISHED MAY 23, 1933. Class 21.

305,485. STRINGS FOR VIOLINS AND SIMILAR MUSICAL INSTRUMENTS. SIMSON & FERY, INC., New York, N. Y.
Filed March 31, 1933. Serial No. 336,304. PUBLISHED MAY 23, 1933. Class 36.

305,486. HYPODERMIC NEEDLES. BECTON, DICKINSON & Co., Rutherford, N. J.
Filed April 1, 1933. Serial No. 336,316. PUBLISHED MAY 30, 1933. Class 44.

305,487. ELECTRICAL WIRING STRIP. LOUIS KALISCHER, INC., Brooklyn, N. Y.
Filed March 30, 1933. Serial No. 336,221. PUBLISHED MAY 23, 1933. Class 21.

305,488. COSMETIC AND HAIR PREPARATIONS. CASTILIAN PRODUCTS CORP., Los Angeles, Calif.
Filed March 31, 1933. Serial No. 336,263. PUBLISHED MAY 30, 1933. Class 6.

305,489. CHEWING TOBACCO. NORTHERN WISCONSIN CO-OPERATIVE TOBACCO POOL, Madison, Wis.
Filed March 31, 1933. Serial No. 336,342. PUBLISHED MAY 30, 1933. Class 17.

305,490. SHAVING CREAM. BEN M. DOUGHERTY, doing business as San Antonio Chemical Company, San Antonio, Tex.
Filed April 3, 1933. Serial No. 336,351. PUBLISHED MAY 30, 1933. Class 4.

305,491. EYE WASH AND SALVE. HARRY F. SIMMONS, Pittsburgh, Pa.
Filed April 1, 1933. Serial No. 336,335. PUBLISHED MAY 30, 1933. Class 6.

305,492. CHEMICAL CARBON REMOVER. THEODORE L. CARRAS, doing business as The Motor Dew Company, New York, N. Y.
Filed March 31, 1933. Serial No. 336,340. PUBLISHED MAY 30, 1933. Class 6.

305,493. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. HARRY C. JACKSON, New York, N. Y.
Filed April 4, 1933. Serial No. 336,398. PUBLISHED MAY 30, 1933. Class 48.

305,494. OXYGEN ABSORBERS FOR USE WITH GAS ANALYZING APPARATUS. THE HAYS CORPORATION, Michigan City, Ind.
Filed April 1, 1933. Serial No. 336,324. PUBLISHED MAY 30, 1933. Class 6.

305,495. CANNED VEGETABLES. PENNSYLVANIA GROCERS ASSOCIATION, Philadelphia, Pa.
Filed April 3, 1933. Serial No. 336,369. PUBLISHED MAY 30, 1933. Class 46.

305,496. WRITING INKS. L. E. WATERMAN COMPANY, New York, N. Y.
Filed April 3, 1933. Serial No. 336,386. PUBLISHED MAY 30, 1933. Class 11.

305,497. CRAYONS. ABRAHAM L. KAMEN, doing business as Globe Crayon Company, Brooklyn, N. Y.
Filed April 3, 1933. Serial No. 336,360. PUBLISHED MAY 30, 1933. Class 37.

305,498. TOILET PAPER. NATIONAL PAPER CO., Chicago, Ill.
Filed April 3, 1933. Serial No. 336,365. PUBLISHED MAY 23, 1933. Class 37.

305,499. PERMANENT WAVING PADS. DUART MANUFACTURING CO. LTD., San Francisco, Calif.
Filed April 5, 1933. Serial No. 336,427. PUBLISHED MAY 30, 1933. Class 44.

305,500. BEES WAX. WALTER H. JELLY & Co., Chicago, Ill.
Filed April 3, 1933. Serial No. 336,358. PUBLISHED MAY 30, 1933. Class 6.

305,501. ASPHALTIC STORAGE BATTERIES. THE RICHARDSON COMPANY, Lockland, Ohio.
Filed April 4, 1933. Serial No. 336,403. PUBLISHED MAY 30, 1933. Class 21.

305,502. LUBRICATING OILS. BANNER OIL COMPANY, Camden, N. J.
Filed April 5, 1933. Serial No. 336,419. PUBLISHED MAY 23, 1933. Class 15.

305,503. CARBOHYDRATE SYRUP FOR INFANT FEEDING. HARRY W. KINNEY, doing business as Scientific Sugars Company, Detroit, Mich.
Filed February 24, 1933. Serial No. 335,237. PUBLISHED JUNE 6, 1933. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]
THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

305,504. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) JOHN H. MOFFAT, Indianapolis, Ind. Filed Mar. 25, 1932. Serial No. 325,505.

SIDE WHEELING

For Parking Equipment for Automobiles—Namely, Means Attached to and Embodied with Automobiles and the Like, Which Serve to Transport Such a Vehicle Laterally Into and Out of Parking Position as for Example in Instances of "Flat to Curb" Parking.
Claims use since Mar. 17, 1932.

305,505. CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KELLOGG COMPANY, Battle Creek, Mich. Filed May 20, 1931. Serial No. 314,811.

Certified for Good Value

For Whole Shredded Wheat Biscuit.
Claims use since Sept. 2, 1930.

305,506. (CLASS 37. PAPER AND STATIONERY.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 11, 1932. Serial No. 326,986.

GASA

For Toilet Paper.
Claims use since Mar. 19, 1932.

305,507. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) UNITED AMERICAN METALS CORPORATION, Brooklyn, N. Y. Filed Apr. 29, 1932. Serial No. 326,619.

DIESEL MARINE

For Babbitt Metal.
Claims use since January, 1922.

305,508. (CLASS 39. CLOTHING.) ESTHER B. JACOBSON, doing business as Jay Underwear Co., New York, N. Y. Filed July 9, 1932. Serial No. 328,668.

Seamfast

For Ladies' Underwear—Namely, Bloomers, Panties, Stepins, Chemises, Slips.
Claims use since June 8, 1932.

305,509. (CLASS 39. CLOTHING.) LOUIS H. MANKO, doing business as L. H. Manko & Company and National Summer Clothing Company, Philadelphia, Pa. Filed June 27, 1932. Serial No. 328,885.

STAYPRES T

For Men's and Boys' Outer Garments—Namely, Suits, Coats, Vests, and Trousers.
Claims use since Mar. 9, 1932.

305,510. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) PERCY B. T. WILLIAMS, Philadelphia, Pa. Filed Oct. 27, 1932. Serial No. 331,633.

WIRELESS

For Hair Brushes, Nail Brushes, Neck Brushes, and Clothes Brushes.
Claims use since June, 1932.

305,511. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORMAN L. WAGGONER, INC., San Francisco, Calif. Filed Aug. 12, 1932. Serial No. 329,515.

SACRAMENTO

For Canned Fruits, Canned Vegetables.
Claims use since June 17, 1932.

305,512. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) REX-HIDE RUBBER MANUFACTURING COMPANY, now by change of name Rex-Hide Incorporated, East Brady, Pa. Filed Dec. 7, 1932. Serial No. 332,981.

CARBON-BASE

For Molded Friction Linings for Brakes and Clutches, Made Principally of Asbestos, Mineral Wear-Resisting Materials Including a Minor Weight Proportion of Gas Black, and Hardened Binder Including Rubber.
Claims use since May 7, 1932.

305,513. (CLASS 45. BEVERAGES, NONALCOHOLIC.) LEONARD B. KRICK, doing business as Mador, Inc., Chicago, Ill. Filed Nov. 2, 1932. Serial No. 331,827.

MADOR

For Nonalcoholic, Maltless Syrups for Making Soft Drinks.
Claims use since July 1, 1932.

305,514. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) WINCHESTER REPEATING ARMS COMPANY, New Haven, Conn. Filed Feb. 13, 1933. Serial No. 334,942.

SPATTERPROOF

For Pistol, Revolver, and Rifle Cartridges.
Claims use since July 11, 1932.

305,515. (CLASS 37. PAPER AND STATIONERY.) THE MARTIN CANTINE COMPANY, Saugerties, N. Y. Filed Jan. 25, 1933. Serial No. 334,314.

"Inner-marked"

For Clay Coated Paper Primarily Intended for Printing.
Claims use since July 1, 1932.

305,516. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUNGLO APIARY, Dongan Hills, Staten Island, N. Y. Filed Mar. 28, 1933. Serial No. 336,026.

RICHMOND COUNTY BRAND

For Comb and Extracted Honey.
Claims use since Oct. 9, 1929.

305,517. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MITCHELL CAMERA CORPORATION, Los Angeles, Calif. Filed Feb. 27, 1933. Serial No. 335,329.

MITCHELL

For Cameras and Camera Accessories Including Tripods, Tilt Heads, View Finders, Magazines, Speed Meters, Gear Boxes, and Mat Boxes.
Claims use since Jan. 1, 1921.

305,518. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WALTER J. LUMBLEAU, Alhambra, Calif. Filed June 5, 1933. Serial No. 338,548.

HOLLYWOOD BUILDING BLOCKS

For Toy Building Blocks.
Claims use since Apr. 1, 1932.

305,519. (CLASS 39. CLOTHING.) GIMBEL BROTHERS, INC., New York, N. Y. Filed Apr. 11, 1933. Serial No. 336,645.

SHERWOOD

For Men's Suits, Coats, Dress, Negligee, and Work Shirts, Underwear, Hose, Union Suits, Shirts and Shorts, Knit and Wool Underwear and Neckties.
Claims use since Jan. 15, 1928.

305,520. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) THE SHERWOOD DISTILLING & DISTRIBUTING CO., Baltimore, Md. Filed July 8, 1933. Serial No. 339,590.

McGINNIS

For Whiskey.
Claims use since April, 1927.

305,521. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) IMPERIAL OIL & GAS PRODUCTS COMPANY, Pittsburgh, Pa. Filed June 29, 1933. Serial No. 339,358.

BLACK TONER

For Carbon Black Used as a Pigment.
Claims use since October, 1924.

TRADE-MARK REGISTRATIONS RENEWED

41,511. CERTAIN NAMED STATIONERY. Registered November 24, 1903. THEO. SCHMIDTMAN'S SONS COMPANY. Renewed November 24, 1933, to Schmidtman Company, Manitowoc, Wis., a Corporation of Wisconsin, by change of name.

41,599. FRICTION MATCHES. Registered December 8, 1903. THE OHIO MATCH COMPANY, Wadsworth, Ohio, a Corporation of Ohio. Renewed December 8, 1933.

41,603. FRICTION MATCHES. Registered December 8, 1903. THE OHIO MATCH COMPANY, Wadsworth, Ohio, a Corporation of Ohio. Renewed December 8, 1933.

41,607. FRICTION MATCHES. Registered December 8, 1903. THE OHIO MATCH COMPANY, Wadsworth, Ohio, a Corporation of Ohio. Renewed December 8, 1933.

41,762. COCOA AND CHOCOLATE. Registered December 29, 1903. SEEMAN BROS. Renewed December 29, 1933, to Seeman Brothers, Inc., New York, N. Y., a Corporation of New York, assignee.

41,778. CERTAIN NAMED MEATS. Registered December 29, 1903. THE CUDAHY PACKING CO., Chicago, Ill., and South Omaha, Nebr. Renewed December 29, 1933, to The Cudahy Packing Company, Chicago, Ill., a Corporation of Maine, assignee.

84,586. ARMPIT-SHIELDS. Registered December 26, 1911. J. J. BEYERLE MFG. CO. Renewed December 26, 1931, to Beyerle Manufacturing Co. Inc., New York, N. Y., a Corporation of New York, successor.

92,498. LUBRICATING, ILLUMINATING, AND ROAD OILS AND LUBRICATING-GREASES. Registered July 15, 1913. THE ALDEN SPEARE'S SONS CO., Cambridge, Mass., a Corporation of Massachusetts. Renewed July 15, 1933.

92,507. CORSETS. Registered July 15, 1913. GEORGE C. BATCHELLER & CO., New York, N. Y. Renewed July 15, 1933, to George C. Batcheller & Co., Inc., Bridgeport, Conn., a Corporation of Connecticut, successor.

92,608. ICING, DRESSING FOR SALAD, FRUITS, HOT CHOCOLATE, AND ICE-CREAMS. Registered July 15, 1913. WHITE-STOKES CO., INC., Chicago, Ill., a Corporation of Illinois. Renewed July 15, 1933.

93,112. A DISINFECTANT. Registered August 19, 1913. PEARSON'S ANTISEPTIC COMPANY, LIMITED, London, England. Renewed August 19, 1933, to The Creolin Co., Rahway, N. J., a Corporation of New Jersey, assignee.

93,231. A CEREAL BREAKFAST FOOD. Registered August 26, 1913. THE COLORADO SANATARIUM FOOD COMPANY. Renewed August 26, 1933, to The Boulder-Colorado Sanitarium, Boulder, Colo., a Corporation of Colorado, assignee.

93,325. CERTAIN PREPARED ROOFINGS. Registered September 9, 1913. BARRETT MANUFACTURING COMPANY. Renewed September 9, 1933, to The Barrett Company, New York, N. Y., a Corporation of New Jersey, assignee.

93,934. LAUNDRY STARCH, WAX, SIZING, AND BLEACHES FOR LAUNDRY PURPOSES. Registered October 21, 1913. THE ALDEN SPEARE'S SONS CO., Cambridge, Mass., a Corporation of Massachusetts. Renewed October 21, 1933.

94,050. IMITATION ASTRAKHANS. Registered November 4, 1913. JOSEPH BENN & SONS, INC. Renewed November 4, 1933, to Joseph Benn Corporation, Greystone, R. I., and New York, N. Y., a Corporation of Rhode Island, successor.

94,114. COTTON-BATTING. Registered November 4, 1913. ROCK RIVER COTTON COMPANY, Janesville, Wis., a Corporation of Wisconsin. Renewed November 4, 1933.

94,258. ESSENTIAL AND VOLATILE OILS. Registered November 18, 1913. A. M. TODD COMPANY, Kalamazoo, Mich., a Corporation of Michigan. Renewed November 18, 1933.

94,421. COAL. Registered December 9, 1913. BUCHANAN COAL COMPANY. Renewed December 9, 1933, to Old Ben Coal Corporation, Chicago, Ill., a Corporation of Delaware, successor.

94,425. A DETERGENT PREPARATION IN CRYSTAL FORM. Registered December 9, 1933. CHASE-O MANUFACTURING COMPANY, Camden, N. J., and Philadelphia, Pa. Renewed December 9, 1933, to J. L. Prescott Company, Passaic, N. J., a Corporation of New Jersey, assignee by mesne assignments.

94,444. WHISKY. Registered December 9, 1913. THE GOVERNOR AND COMPANY OF ADVENTURERS OF ENGLAND TRADING INTO HUDSON'S BAY, Winnipeg, Manitoba, Canada, a Corporation of England. Renewed December 9, 1933.

94,699. GARMENT-FASTENERS KNOWN AS SNAP-BUTTONS. Registered December 23, 1913. WALDES & Co., Prague-Wrschowitz, Austria-Hungary. Renewed December 23, 1933, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a Corporation of New York, assignee by mesne assignments.

94,719. SAWS. Registered December 30, 1913. HENRY DISSTON & SONS, INCORPORATED, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed December 30, 1933.

94,903. TOMATO CATSUP, POWDERED COCOA FOR USE IN MAKING A BEVERAGE, CANNED VEGETABLES, SUCCOTASH, BAKED BEANS, SALMON, COFFEE, AND WHEAT-FLOUR. Registered January 13, 1914. GELFMAN GROCERY CO., Springfield, Mass. Renewed January 13, 1934, to The Great Atlantic & Pacific Tea Company, New York, N. Y., a Corporation of New Jersey, assignee by mesne assignments.

LABELS

REGISTERED AUGUST 15, 1933

42,528.—*Title:* ADLER-I-KA INTESTINAL EVACUANT. For an Intestinal Evacuant. THE ADLERIKA COMPANY, St. Paul, Minn. Published January 2, 1932.

42,529.—*Title:* BEXERT. For Preparation for Use in Making Ice Cream. BAKER EXTRACT COMPANY, Springfield, Mass. Published June 20, 1933.

42,530.—*Title:* WHITE FARM CREAMERY BUTTER. For Creamery Butter. CAMPBELL PAPER BOX COMPANY, South Bend, Ind. Published April 21, 1933.

42,531.—*Title:* CREAMERY BUTTER. For Creamery Butter. CAMPBELL PAPER BOX COMPANY, South Bend, Ind. Published April 21, 1933.

42,532.—*Title:* DUFFY'S MALT TONIC. For Malt Tonic. DUFFY'S LABORATORIES, LTD., Beverly Hills, Calif. Published June 28, 1933.

42,533.—*Title:* SOILAX. For a Cleanser and Water Softener. ECONOMICS LABORATORY, INC., St. Paul, Minn. Published April 28, 1933.

42,534.—*Title:* FISCHER'S OLD HOME SLICED BRIDGE BREAD. For Bread. FISCHER BAKING COMPANY, Newark, N. J. Published February 1, 1933.

42,535.—*Title:* VITRON. For Permanent Waving Pads. E. FREDERICS, INC., New York, N. Y. Published January 20, 1933.

42,536.—*Title:* HIGH-TEST. For Beer. HIGH-TEST MALT EXTRACT CO., INC., doing business as High-Test Beverage Co., Chicago, Ill. Published March 15, 1933.

42,537.—*Title:* JACK AND JILL JELL. For Gelatin Desserts. JUNIOR FOOD PRODUCTS CO. INC., Tyrone, Pa. Published June 1, 1933.

42,538.—*Title:* SLICED BACON. For Bacon. KALAMAZOO VEGETABLE PARCHMENT COMPANY, Parchment, Mich. Published May 12, 1933.

42,539.—*Title:* CABLE WEAVE. For Clothes. THE KENNEDY COMPANY, doing business as Keanedy's, Boston, Mass. Published May 23, 1933.

42,540.—*Title:* MY-T-FINE SMOOTH FREEZING POWDER. For Mixture of Ingredients to be Used in Making Ice Cream in Chocolate and in Vanilla Flavors. MY-T-FINE CORPORATION, Brooklyn, N. Y. Published July 12, 1933.

42,541.—*Title:* SHREDDED WHEAT. For Whole Wheat Biscuits. NATIONAL BISCUIT COMPANY, New York, N. Y. Published June 1, 1933.

42,542.—*Title:* OCEAN TONE. For Organic Sea Minerals. OCEAN-TONE CORPORATION, Los Angeles, Calif. Published June 6, 1933.

42,543.—*Title:* CAPT. COOK COFFEE CO. LTD. For Fertilizer. THE PACIFIC GUANO AND FERTILIZER COMPANY, Berkeley, Calif., and Honolulu, Territory of Hawaii. Published September 1, 1932.

42,544.—*Title:* CAPT, COOK COFFEE CO. LTD. For Fertilizer. THE PACIFIC GUANO AND FERTILIZER COMPANY, Berkeley, Calif. and Honolulu, Territory of Hawaii. Published September 1, 1932.

42,545.—*Title:* P. G. & F. CO. For Fertilizer. THE PACIFIC GUANO AND FERTILIZER COMPANY, Berkeley, Calif., and Honolulu, Territory of Hawaii. Published September 1, 1932.

42,546.—*Title:* SIERRA. For Beer. RENO BREWING COMPANY, INC., Reno, Nev. Published June 15, 1933.

42,547.—*Title:* NEVA-WET. For Linen Suits. S. & I. LEFKOWITZ, INC., New York, N. Y. Published April 12, 1933.

42,548.—*Title:* HYPO-ALLERGIC WHOLE MILK POWDER, SMACO PRODUCT 302. For Whole Milk Powder. S. M. A. CORPORATION, Cleveland, Ohio. Published June 8, 1933.

42,549.—*Title:* HYPO-ALLERGIC LIQUID WHOLE MILK, SMACO PRODUCT 300. For Liquid Whole Milk. S. M. A. CORPORATION, Cleveland, Ohio. Published June 8, 1933.

42,550.—*Title:* HYPO-ALLERGIC LIQUID SKIM MILK. SMACO PRODUCT 303. For Liquid Skim Milk. S. M. A. CORPORATION, Cleveland, Ohio. Published June 8, 1933.

42,551.—*Title:* GOLDEN DROPS LAGER BEER. For Lager Beer. TWO RIVERS BEVERAGE CO., Two Rivers, Wis. Published May 26, 1933.

42,552.—*Title:* VARNUM'S YEAST. For Yeast. VARNUM YEAST COMPANY, West Brookfield, Mass. Published June 2, 1933.

42,553.—*Title:* TU-NOODLES. For a Product Consisting of Tuna Fish and Noodles. WESTGATE SEA PRODUCTS COMPANY, San Diego, Calif. Published September 30, 1932.

42,554.—*Title:* 'MINRILWINE' FORMULA 'S'. For Medicinal Tonics. WINE PRODUCTS COMPANY, San Francisco, Calif. Published June 12, 1933.

42,555.—*Title:* 'MINRILWINE' FORMULA 'P'. For Medicinal Tonics. WINE PRODUCTS COMPANY, San Francisco, Calif. Published June 12, 1933.

PRINTS

REGISTERED AUGUST 15, 1933

14,297.—*Title:* TWO OLD FRIENDS GET TOGETHER AGAIN. For a Malt Beverage with a Legal Alcoholic Content. ATLAS BREWING COMPANY, Chicago, Ill. Published March 21, 1933.

14,298.—*Title:* A PLASTIC PACK DRESSING FOR GUM AND BONE SURGERY. For Dental and Surgical Dressing. SAMUEL H. GOODFRIEND, Chicago, Ill. Published June 1, 1933.

14,299.—*Title:* MENDS ANYTHING METALLIC-X. For Tubes of Adhesive. LUX-VISEL, INC., Elkhart, Ind. Published April 29, 1933.

14,300.—*Title:* MINUTE MAKE-UP. For Tubes of Cleansing Cream and Cleansing Tissues. MINUTE MAKE-UP COMPANY, INC., Philadelphia, Pa. Published May 1, 1933.

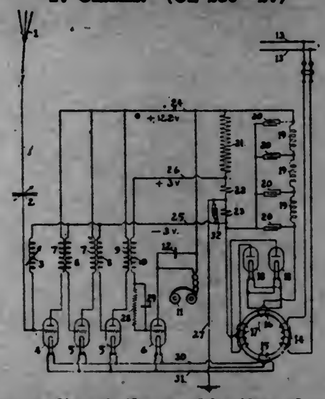
14,301.—*Title:* MARY MEADE'S RECIPES. For Recipes. PALMER ADVERTISING SERVICE, INC., New York, N. Y. Published May 19, 1933.

14,302.—*Title:* THRILLER. For Gliders. SEARS, ROEBUCK & COMPANY, Philadelphia, Pa. Published June 18, 1933.

REISSUES

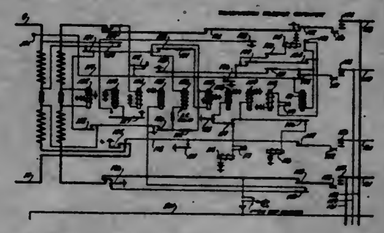
AUGUST 15, 1933

18,916
SUPPLY CIRCUITS FOR RADIO SETS
Julius Georgues Aceves, New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a Corporation of Delaware
Original No. 1,622,170, dated March 22, 1927, Serial No. 557,348, April 29, 1922. Application for reissue March 29, 1929. Serial No. 348,655
17 Claims. (Cl. 250—27)



1. In a radio set, the combination of an amplifying tube, means for heating the filament of the tube, a connecting circuit, a source of direct-current energy in separate circuits from the circuit for heating the filament having its positive end connected to the anode and its negative end connected to the grid of the tube, a resistance connected between the two ends of the direct-current source, and a conductive connection between an intermediate point of the resistance and the filament circuit, whereby the grid is made more negative than the negative end of the filament.

18,917
TELEPHONE SYSTEM
John Wicks, Oak Park, Ill., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a Corporation of Delaware
Original No. 1,723,224, dated August 6, 1929, Serial No. 48,693, August 7, 1925. Application for reissue August 5, 1931. Serial No. 555,333
64 Claims. (Cl. 179—27)

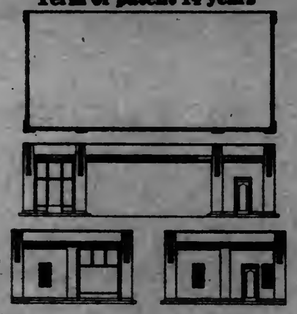


1. In a telephone system, a selector repeater, a train of succeeding switches, means including said selector repeater and said switch train for connecting a calling and called line, a director for registering the called number and for controlling the setting of said switches, a circuit over which such control is effected, means responsive to the completion of the connection for converting said control circuit into a battery feed circuit for supplying talking current to the called line from said selector repeater, and means responsive to the said converting operation for releasing said director.

DESIGNS

AUGUST 15, 1933

90,468
DESIGN FOR A SERVICE STATION
Herbert O. Alden, Oakland, Calif., assignor to Shell Oil Company, San Francisco, Calif., a Corporation of California
Application March 25, 1933. Serial No. 47,582
Term of patent 14 years

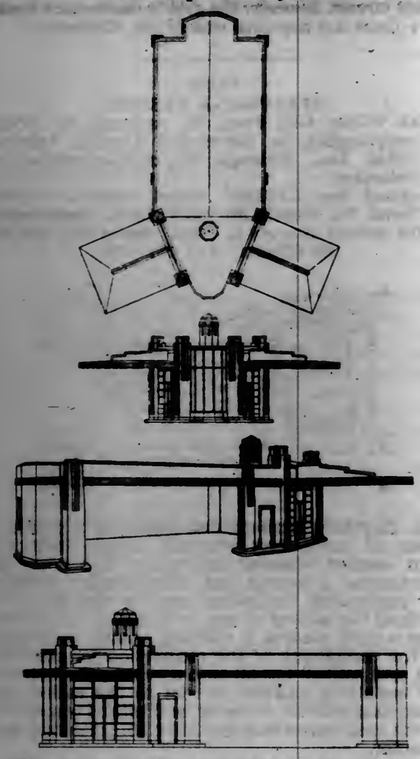


90,468—Continued



The ornamental design for a service station as shown.

90,469
DESIGN FOR A SERVICE STATION
Herbert O. Alden, Oakland, Calif., assignor to Shell Oil Company, San Francisco, Calif., a Corporation of California
Application March 25, 1933. Serial No. 47,584
Term of patent 14 years



The ornamental design for a service station as shown.

90,470
DESIGN FOR A TEXTILE FABRIC
Julia Black, New York, N. Y., assignor to Cheney Brothers, New York, N. Y., a Corporation of Connecticut
Application July 6, 1933. Serial No. 48,642
Term of patent 3½ years



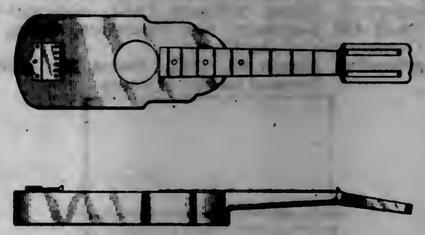
The ornamental design for a textile fabric, substantially as shown and described.

90,471
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Edgar Mott Bottome, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a Corporation of West Virginia
Application June 14, 1933. Serial No. 48,402
Term of patent 7 years



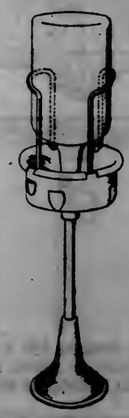
The ornamental design for a goblet or similar article, substantially as shown.

90,472
DESIGN FOR A STRINGED MUSICAL INSTRUMENT
William A. Bowman, Las Cruces, N. Mex.
Application June 1, 1933. Serial No. 48,256
Term of patent 3½ years



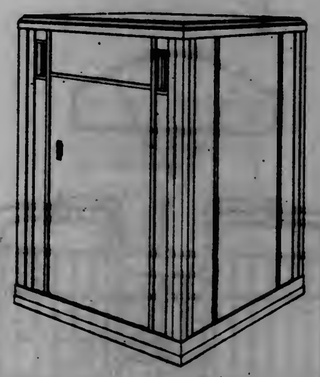
The ornamental design for a stringed musical instrument as shown.

90,473
DESIGN FOR A COMBINATION LIQUID FUEL RESERVOIR AND SUPPORT THEREFOR
William T. Bradbury, Kankakee, Ill., assignor to Florence Stove Company, Boston, Mass., a Corporation of Massachusetts
Application May 17, 1933. Serial No. 48,151
Term of patent 3½ years



The ornamental design for a combination liquid fuel reservoir and support therefor, substantially as shown.

90,474
DESIGN FOR A FURNACE JACKET
Earl Bullock, Grand Rapids, Mich., assignor to Metal Office Furniture Company, Grand Rapids, Mich., a Corporation of Michigan
Application June 5, 1933. Serial No. 48,283
Term of patent 7 years



The ornamental design for a furnace jacket substantially as shown.

90,475
DESIGN FOR A FLEXIBLE POCKET RECEPTACLE
Warner R. Buxton, Longmeadow, Mass.
Application May 17, 1933. Serial No. 48,153
Term of patent 14 years



The ornamental design for a flexible pocket receptacle substantially as shown and described.

90,476
DESIGN FOR A WATERPROOF CIGARETTE CASE
Gennaro Castellano and Otto Esposito, New York, N. Y.
Application April 27, 1933. Serial No. 48,838
Term of patent 7 years



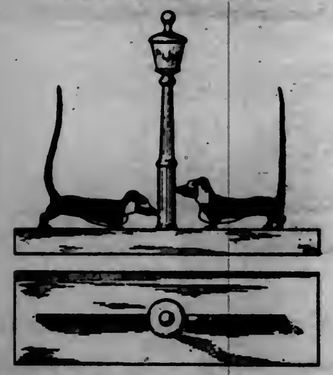
The ornamental design for a waterproof cigarette case, as shown.

90,477
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Cohen, New York, N. Y., assignor to L. & E. Stirn, Inc., New York, N. Y.
Application December 27, 1932. Serial No. 46,582
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

90,478
DESIGN FOR A HOLDER FOR PRETZELS OR THE LIKE
Frank J. Coyle, New York, N. Y.
Application June 14, 1933. Serial No. 48,295
Term of patent 3½ years



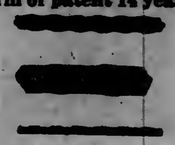
The ornamental design for a holder for pretzels or the like substantially as shown.

90,479
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Sylvain Cusson, New York, N. Y., assignor to Cohn Hall Marx Co., New York, N. Y.
Application June 21, 1933. Serial No. 48,483
Term of patent 3½ years



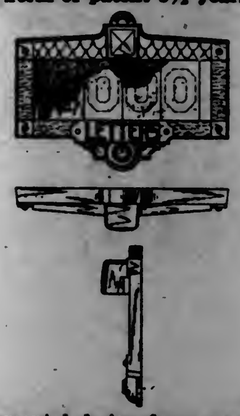
The ornamental design for a textile fabric or similar article as shown.

90,480
DESIGN FOR A FABRIC
Joseph Erkes, Philadelphia, Pa., assignor to Collins & Aikman Corporation, Philadelphia, Pa., a Corporation of Delaware
Application May 8, 1933. Serial No. 48,038
Term of patent 14 years



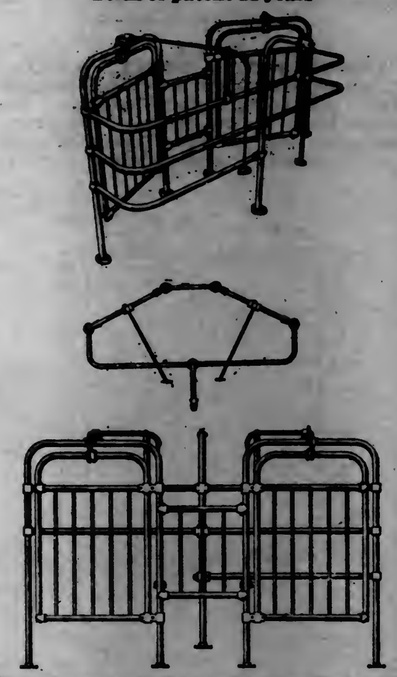
The ornamental design for a fabric as shown and described.

90,481
DESIGN FOR A COMBINATION ILLUMINATED HOUSE NUMBER PLATE, LETTER DROP OPENING, AND SIGNAL PUSH BUTTON
Anton Fasekas, San Francisco, Calif.
Application May 22, 1933. Serial No. 48,183
Term of patent 3½ years



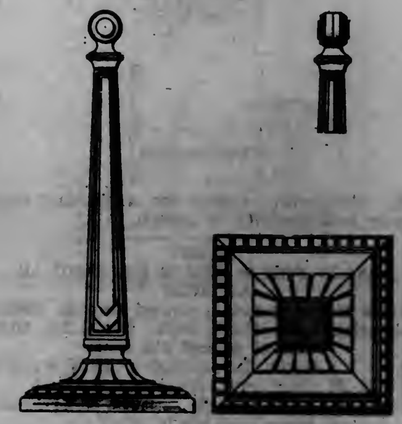
The ornamental design for a combination illuminated house number plate, letter drop opening, and signal push button as shown.

90,482
DESIGN FOR A MILKING PARLOR STALL
Howard J. Ferris, Harvard, Ill.
Application December 12, 1932. Serial No. 46,439
Term of patent 14 years



The ornamental design for a milking parlor stall, as shown.

90,483
DESIGN FOR A COMBINED BASE AND STANDARD FOR A LAMP
Frederick E. Greene, New Haven, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a Corporation of Connecticut
Application October 22, 1932. Serial No. 45,500
Term of patent 3½ years



The ornamental design for a combined base and standard for a lamp substantially as shown.

90,484
DESIGN FOR A TOURIST CAMP COTTAGE
Charles J. Greene, Dallas, Tex.
Application October 24, 1932. Serial No. 45,525
Term of patent 7 years



90,484—Continued



The ornamental design for a tourist camp cottage as shown and described.

90,485
DESIGN FOR A TOURIST CAMP OFFICE BUILDING
Charles J. Greene, Dallas, Tex.
Application October 24, 1932. Serial No. 45,526
Term of patent 7 years



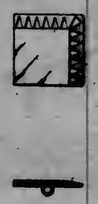
The ornamental design for a tourist camp office building as shown and described.

90,486
DESIGN FOR A TOURIST CAMP COTTAGE
Charles J. Greene, Dallas, Tex.
Application October 24, 1932. Serial No. 45,527
Term of patent 7 years



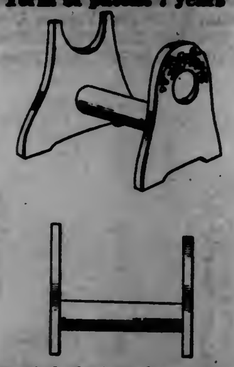
The ornamental design for a tourist camp cottage as shown and described.

90,487
DESIGN FOR A BUTTON
William F. Haas, Rockaway, Long Island, N. Y., assignor to B. Blumenthal & Co. Inc., New York, N. Y.
Application June 15, 1933. Serial No. 48,415
Term of patent 3½ years



The ornamental design for a button, as shown.

90,488
DESIGN FOR A NURSING BOTTLE SUPPORT
Vernon F. Hechler, Cleveland, Ohio
Application May 3, 1933. Serial No. 48,041
Term of patent 7 years



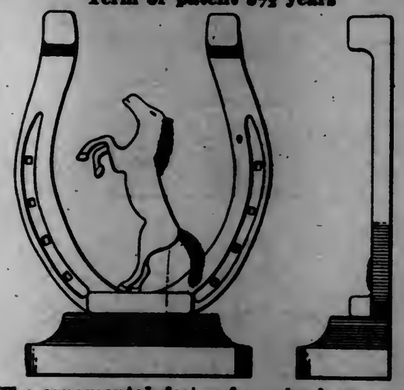
The ornamental design for a nursing bottle support substantially as shown.

90,489
DESIGN FOR A CHAIR OR SIMILAR ARTICLE
James R. Kirkpatrick, Grand Rapids, Mich.
Application December 2, 1932. Serial No. 46,295
Term of patent 3½ years



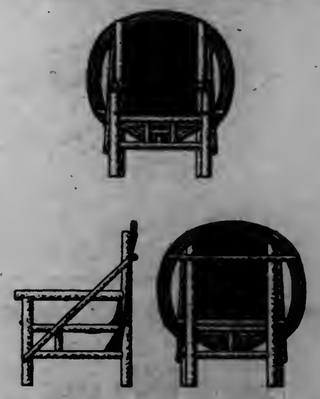
The ornamental design for a chair or similar article, as shown.

90,490
DESIGN FOR A BOOK SUPPORT
Philip La Delfa, Dansville, N. Y.
Application November 11, 1932. Serial No. 45,885
Term of patent 3½ years



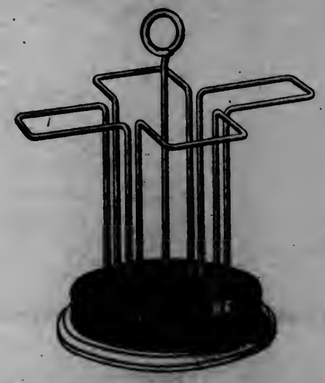
The ornamental design for a book support, as shown.

90,491
DESIGN FOR A RUSTIC CHAIR
Luke E. Leonard and Cyril A. Leonard, Utica, Mich.
Application May 24, 1933. Serial No. 48,203
Term of patent 3½ years



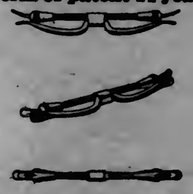
The ornamental design for a rustic chair, as shown.

90,492
DESIGN FOR A PACKAGE DISPLAY STAND
Louis N. Levinsohn, New York, N. Y.
Application May 17, 1933. Serial No. 48,136
Term of patent 7 years



The ornamental design for a package display stand substantially as shown.

90,493
DESIGN FOR A COLLAR CLASP
Ben B. Manaster, Chicago, Ill.
Application June 12, 1933. Serial No. 48,381
Term of patent 14 years



The ornamental design for a collar clasp, as shown.

90,494
DESIGN FOR A RUG
William F. McCabe, New York, N. Y., assignor to Bigelow Sanford Carpet Co., Inc., a Corporation of Massachusetts
Application May 1, 1933. Serial No. 47,963
Term of patent 7 years



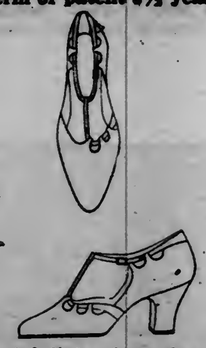
The ornamental design for a rug substantially as shown.

90,495
DESIGN FOR A LOUNGING CHAIR
Vernon A. McChesney, Buffalo, and Fred A. Milnes, Kenmore, N. Y., assignors to Aluminum Company of America, of Pittsburgh, Pa., a Corporation of Pennsylvania
Application May 3, 1933. Serial No. 47,967
Term of patent 3½ years



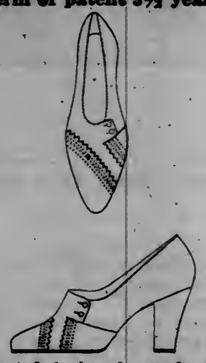
The ornamental design for a lounging chair, as shown.

90,496
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application May 4, 1933. Serial No. 47,999
Term of patent 3½ years



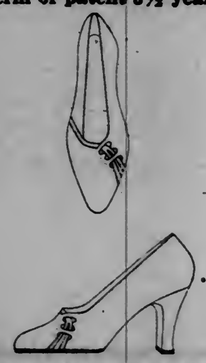
The ornamental design for a shoe, as shown.

90,497
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application May 4, 1933. Serial No. 48,000
Term of patent 3½ years



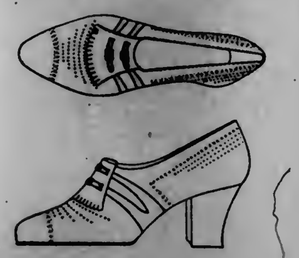
The ornamental design for a shoe, as shown.

90,498
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,317
Term of patent 3½ years



The ornamental design for a shoe, as shown.

90,499
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,323
Term of patent 3½ years



The ornamental design for a shoe, as shown.

90,500
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,324
Term of patent 3½ years



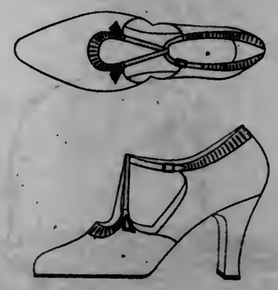
The ornamental design for a shoe, as shown.

90,501
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,327
Term of patent 3½ years



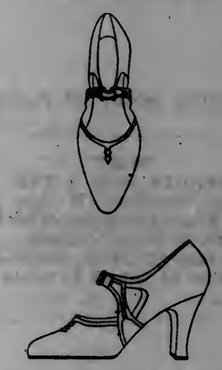
The ornamental design for a shoe, as shown.

90,502
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,332
Term of patent 3½ years



The ornamental design for a shoe, as shown.

90,503
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,333
Term of patent 3½ years



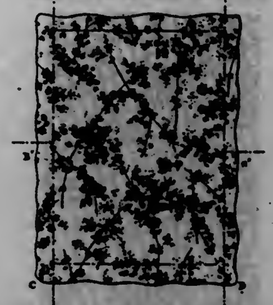
The ornamental design for a shoe, as shown.

90,504
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,338
Term of patent 3½ years



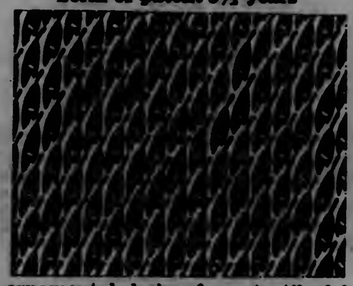
The ornamental design for a shoe, as shown.

90,505
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
John Overmeyer, New York, N. Y., assignor to William Willhelm Co., Inc., New York, N. Y.
Application December 27, 1932. Serial No. 46,606
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

90,506
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Gustav M. Pulitzer, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application July 14, 1933. Serial No. 48,707
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown.

90,507
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Gustav M. Pulitzer, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application July 14, 1933. Serial No. 48,708
Term of patent 3½ years



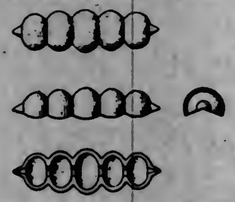
The ornamental design for a textile fabric or similar article as shown.

90,508
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Gustav M. Pulitzer, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application July 14, 1933. Serial No. 48,709
Term of patent 3½ years



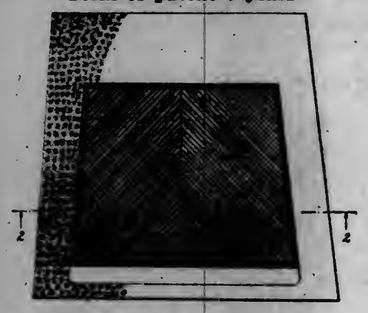
The ornamental design for a textile fabric or similar article as shown.

90,509
DESIGN FOR A DOUGH PRODUCT
Angelo Ronzoni, New York, N. Y.
Application April 14, 1933. Serial No. 47,783
Term of patent 7 years



The ornamental design for a dough product, as shown.

90,510
DESIGN FOR AN AUTOMOBILE MAT
Roy H. Schwartz, Cleveland, Ohio
Application May 3, 1933. Serial No. 48,035
Term of patent 7 years



The ornamental design for an automobile mat, as shown and described.

90,511
DESIGN FOR A DISPLAY STAND
Harry E. Shaw, Grand Rapids, Mich.
Application June 14, 1933. Serial No. 48,194
Term of patent 7 years



The ornamental design for a display stand, as shown.

90,512
DESIGN FOR A JAR
Frasier Smith, Wheeling, W. Va., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va., a Corporation of West Virginia
Application June 27, 1933. Serial No. 48,561
Term of patent 14 years



The ornamental design for a jar, as shown.

90,513
DESIGN FOR A MICROSCOPE LIGHT
Gustav Spindler, San Francisco, Calif.
Application March 27, 1933. Serial No. 47,595
Term of patent 3½ years



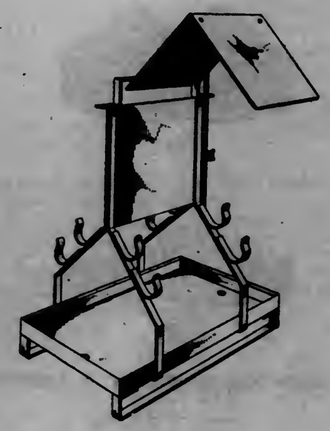
The ornamental design for a microscope light substantially as shown.

90,514
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Michelangelo A. Suzi, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application June 27, 1933. Serial No. 48,548
Term of patent 3½ years



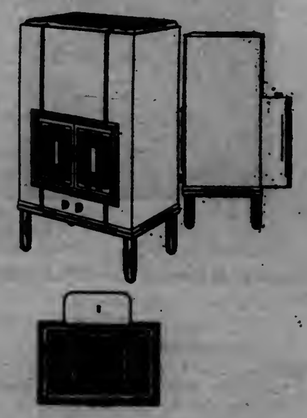
The ornamental design for a textile fabric or similar article as shown.

90,515
DESIGN FOR A RACK
Lee O. Taylor, Muskegon, Mich., assignor to Muskegon Bennett Corporation, Muskegon, Mich., a Corporation of Michigan
Application May 15, 1933. Serial No. 48,120
Term of patent 3½ years



The ornamental design for a rack, as shown.

90,516
DESIGN FOR A CABINET HEATER
Walter D. Teague, New York, N. Y., assignor to American Gas Machine Company, Albert Lea, Minn., a Corporation of Delaware
Application May 18, 1933. Serial No. 48,157
Term of patent 7 years



The ornamental design for a cabinet heater substantially as shown and described.

90,517
DESIGN FOR A BRASSIÈRE
Ferdinand Tournier, Lyon, France
Application January 13, 1933. Serial No. 46,823
Term of patent 3½ years



The ornamental design for a brassière, as shown.

90,518
DESIGN FOR A RUG
Ignatius J. Vetter, New York, N. Y., assignor to Bigelow Sanford Carpet Co., Inc., a Corporation of Massachusetts
Application May 3, 1933. Serial No. 47,982
Term of patent 7 years



The ornamental design for a rug substantially as shown.

90,519
DESIGN FOR A CHURCH
Rode N. Wall, Vancouver, British Columbia, Canada
Application May 29, 1933. Serial No. 48,236
Term of patent 14 years

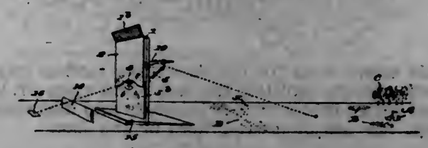


The ornamental design for a church substantially as shown.

PATENTS

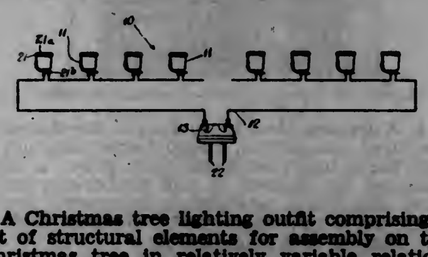
GRANTED AUGUST 15, 1933

1,922,921
GOLF APPARATUS
Robert E. Adams, New York, N. Y.
Application February 16, 1932. Serial No. 593,345
8 Claims. (Cl. 272—32)



1. Means for controlling the flight of a golf ball comprising a substantially vertical yieldable barrier having an opening therein, and angularly adjustable means behind said barrier for deflecting a ball passing through said opening.

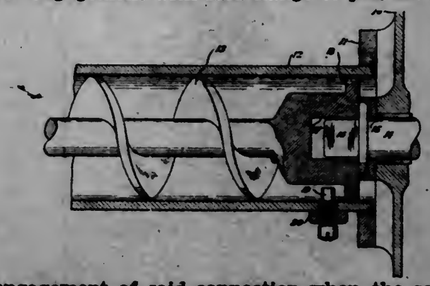
1,922,922
PORTABLE SERIES ELECTRICAL LIGHTING OUTFIT
Louis Barnett, Brooklyn, N. Y.
Application May 28, 1928. Serial No. 281,157
1 Claim. (Cl. 240—10)



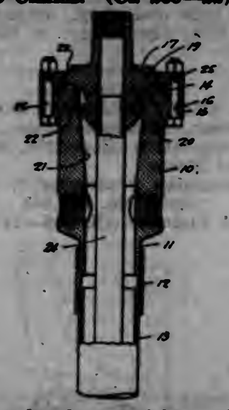
A Christmas tree lighting outfit comprising a set of structural elements for assembly on the Christmas tree in relatively variable relation, some of said elements being in the form of conductor cords differing in length from each other, each having a plug terminal at each end thereof, other of said elements being in the form of single lamp sockets, each having a pair of sockets for detachably receiving the plug terminals from any pair of cords, and a detachable plug having a pair of plug terminals for connecting to a source of power and also having sockets to receive the plug terminals from any pair of cords, whereby the said elements may be assembled to illuminate a Christmas tree in any manner desired, and the lamp sockets may be spaced and arranged in any suitable manner to form an illuminated Christmas tree of neat appearance and having its conductor cords neatly disposed.

1,922,923
COAL FEED SCREW
Edward G. Baer, Orrville, Ohio, assignor to The Will-Burt Company, Orrville, Ohio, a Corporation of Ohio
Application July 20, 1931. Serial No. 552,585
4 Claims. (Cl. 198—213)

1. Stoker mechanism including a drive shaft, a coal feed screw, a longitudinally slidable connection between the shaft and screw, a tube in which the screw is located, an annular flange upon the screw and a stop fixed to the tube and normally out of contact with the flange but adapted for engagement with said flange to prevent disengagement of said connection when the screw is rotated in reverse direction.



1,922,924
TUBING HEAD
John G. Bouslog, Compton, Calif.
Application January 14, 1933. Serial No. 651,747
5 Claims. (Cl. 285—23)

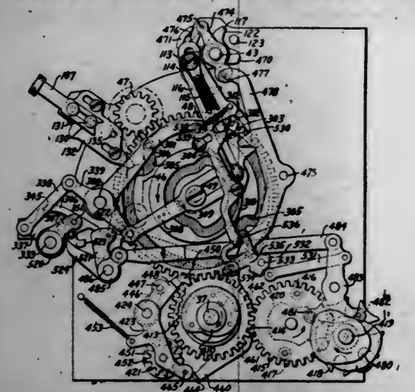


1. A tubing head comprising a body with a bore, said body being adapted to be attached to the upper end of casing and having an outwardly extending flange at its upper end, a tapered extension boss on said body above said flange, a mandrel head inserted in the bore of said body and overhanging the upper end of the latter, there being a bayonet joint coupling between said body and mandrel head, said mandrel head and boss meeting to form an external upwardly and inwardly inclined annular shoulder, a gland ring having a bore corresponding to said shoulder and overlying said flange, a gasket disposed between the opposing faces of said ring and boss, a segmentally split clamping ring below said flange, and bolts passing between said rings to clamp the latter to said body.

1,922,925
CASH REGISTER
Samuel Brand, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland
Original application June 10, 1927, Serial No. 197,941. Divided and this application November 28, 1930. Serial No. 498,689
14 Claims. (Cl. 235—27)

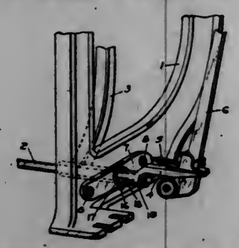
1. In a machine of the class described, the combination of a release shaft; a tube surrounding

a section of the shaft; a plurality of banks of keys; a plurality of members carried by the shaft and tube for releasing the keys; means to rock the shaft and tube as a unit to release any de-



pressed keys; and means to automatically disconnect the tube from the shaft, and thereafter connect the tube and shaft, during certain operations to delay the release of certain of said keys.

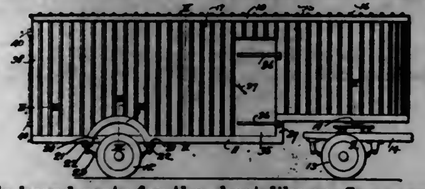
1,922,026
ROCKER SHAFT BEARING FOR LOOMS
Carl D. Brown, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine
Application September 2, 1932
Serial No. 631,543
2 Claims. (Cl. 308—21)



1. In combination, a loom-side, a lay rocker shaft extending through the loom-side, a lay sword secured to the rocker shaft inside the loom-side, a parallel fixed to the outer end of the rocker shaft outside the loom-side, a rocker shaft box carried by the loom-side between the lay-sword and the parallel, a headed bushing journalled in the rocker shaft box and having its headed end outside the loom-side and adjacent the parallel, the rocker shaft extending through the said bushing, and a locking member comprised of a spring clip secured to the parallel and engaging a notch in the head of the bushing to constrain the latter to move with the parallel.

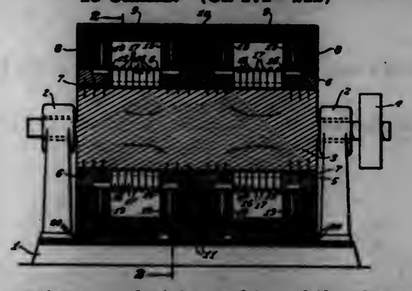
1,922,027
TRAILER BODY
Nathan A. Carter, Memphis, Tenn.
Application August 15, 1931. Serial No. 557,219
5 Claims. (Cl. 296—28)

1. A unitary roof structure for trailers or the like for highway use, comprising a roof frame composed of a peripheral, integral member bent into substantially U-shape and a transverse member integrally connected to the respective ends of said U-shaped member; and a flat, sheet-like, transversely-ribbed roofing member rigidly secured to said frame, the horizontal top of said members being flat and of such width as to pro-



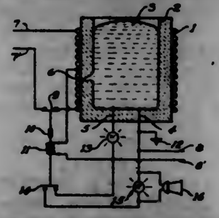
vide broad seats for the sheet-like roofing members, thereby uniting the sides and ends of the roof frame into a horizontal beam and dispensing with the use of cross-braces or the like.

1,922,028
DYNAMO-ELECTRIC MACHINE
Pierre L. Chandeysson, St. Louis, Mo.
Application August 3, 1931. Serial No. 554,669
18 Claims. (Cl. 171—212)



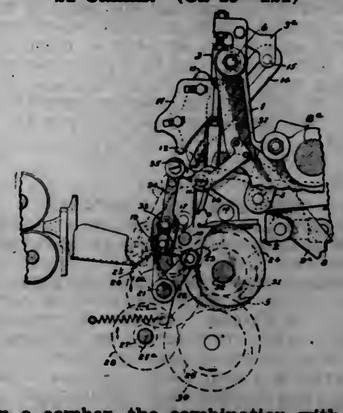
1. A dynamo-electric machine of the character described, comprising, a field-frame structure in two parts insulated from each other, a rotor mounted for rotation in said field-frame structure, and means establishing an electric circuit from one of said frame parts, thru said rotor to the other of said frame parts.

1,922,029
PROTECTIVE DEVICE FOR INDUCTION FURNACE
Frank Theodore Chesnut, Yardley, Pa., assignor to Ajax Electrothermic Corporation, Ajax Park, N. J., a Corporation of New Jersey
Application July 22, 1931. Serial No. 552,388
5 Claims. (Cl. 13—26)



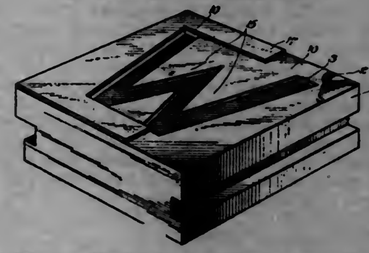
1. In an induction furnace having a refractory lining adapted to contain a charge, an inductor coil surrounding said lining, leads connecting the ends of the inductor coil to a source of power supply and an electrical signal circuit connected between an approximate mid tap on the inductor coil and the charge to indicate electrical breakdown of the refractory lining between the inductor coil and the charge.

1,922,030
HEILMAN TYPE COMBER
Frank L. Crockett, East Douglas, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a Corporation of Massachusetts
Application June 6, 1930. Serial No. 459,576
21 Claims. (Cl. 19—121)



1. In a comber, the combination with means for detaching a tuft from the lap, of piecing mechanism receiving the tuft therefrom and operating means for said mechanism moving it back and forth bodily toward and from said detaching means.

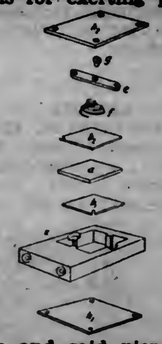
1,922,031
MATRIX
John A. de Geyer, Oak Park, Ill.
Application January 4, 1932. Serial No. 584,662
9 Claims. (Cl. 101—401.2)



4. The method of preparing a standard type matrix for casting type having high type faces which comprises filling the intagliated portions of the matrix with heat resistant material, building up a pool of metal to the desired thickness onto the face of the matrix by the application of heat, cooling the matrix, and then clearing out the intaglio of the matrix.

1,922,032
CRYSTAL HOLDER OR SETTING
Paul Ehlert and Josef Fassler, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany
Application March 1, 1929, Serial No. 343,770, and in Germany March 2, 1928
4 Claims. (Cl. 171—327)

1. A piezo-electric crystal housing comprising an insulating body member recessed to form a receptacle, an electrode mounted in said body member, a contact member carried by said body and connected to said electrode, a piezo-electric crystal supported by said electrode, a second electrode mounted on said piezo-electric crystal, a second contact member carried by said body and connected to said second named contact member, means for exerting pressure between

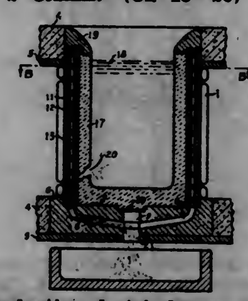


said electrodes and said piezo-electric crystal comprising a spring mounted to bear on said last named electrode and means for adjusting the compression of said spring.

1,922,033
TREATMENT OF TEXTILE MATERIALS
George Holland Ellis and William Bertram Miller, Spondon, near Derby, England, assignors to Celanese Corporation of America, a Corporation of Delaware
No Drawing. Application August 6, 1929, Serial No. 383,977, and in Great Britain August 24, 1928
11 Claims. (Cl. 8—5)

1. A process for the production of coloured pattern effects on materials by the formation of oxidation colourations thereon, comprising the separate operations of applying an agent adapted to inhibit oxidation of the color-forming compound to selected portions of the material, of applying an oxidizing agent, and of applying an aromatic compound capable of yielding colourations by oxidation, the oxidation inhibiting agent being applied before at least one of the other agents, and finally effecting formation of said oxidation colourations.

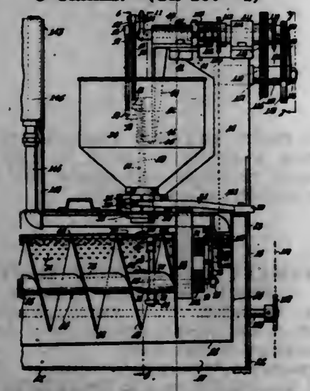
1,922,034
PROTECTIVE DEVICE FOR ELECTRIC INDUCTION FURNACES
Thomas Arthur Feehan, Trenton, N. J., assignor to Ajax Electrothermic Corporation, Ajax Park, N. J., a Corporation of New Jersey
Application November 23, 1931
Serial No. 576,815
2 Claims. (Cl. 13—26)



1. In an induction electric furnace, an inductor coil, a granular packed refractory lining within

said coil forming a hearth, spaced brick walls between the coil and the lining providing a by-pass for leakage molten metal to prevent damage to the coil and a refractory base beneath said lining having a discharge opening and provided with passageways leading from said by-pass to said discharge opening.

1,922,035
FRYING AND COOKING APPARATUS
William Lee Goodman, Chicago, Ill., assignor to Bear-Stewart Co., a Corporation of Illinois
Application December 3, 1931. Serial No. 578,641
8 Claims. (Cl. 107—4)



1. In a doughnut making machine or the like, a hopper mechanism for feeding portions of doughnut material, a container adapted to contain a medium for cooking such portions, an element located adjacent the feeding means and adapted to receive said portions as the same are dropped from the feeding means and to transfer the portions directly downward to a point substantially beneath said hopper mechanism.

1,922,036
ARC LAMP
William R. Gruber, New York, N. Y., assignor to "Health" Ray Mfg. Co. Inc., New York, N. Y., a Corporation of New York
Application February 6, 1931. Serial No. 513,875
4 Claims. (Cl. 176—103)



1. In an arc lamp including resistance and electrode compartments, having common tops and bottoms, upper and lower dielectric electrode supports extending from said resistance compartment into said electrode compartment, said upper support having an electrode holder adapted to fixedly retain an upper electrode in substantially vertical position, said lower electrode support provided with a fixed electrode contact, a lower electrode holder operatively associated with said contact and adapted to engage and to hold the lower electrode in substantially vertical position and in alignment with an upper electrode, said lower electrode holder adapted to normally rest against said contact due to its own weight and the weight of the electrode, and capable of being temporarily elevated in order to bring the lower electrode into momentary contact with the upper electrode.

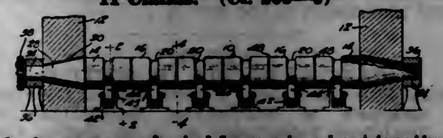
1,922,037
TREATMENT OF METALS
Charles Hardy, Pelham Manor, N. Y., assignor to Hardy Metallurgical Company, a Corporation of Delaware
No Drawing. Application June 28, 1930. Serial No. 464,697
8 Claims. (Cl. 75—45)

1. The method of treating an alkaline earth metal in the form of calcium which comprises agglomerating the metallic calcium in molten form to yield an essentially mechanical admixture of the metals whereby the metals are not alloyed with another metal or metals in solid and sub-divided form.

1,922,038
STAINLESS METAL
Charles Hardy, Pelham Manor, N. Y., assignor to Hardy Metallurgical Company, a Corporation of Delaware
No Drawing. Application October 6, 1931 Serial No. 567,201
1 Claim. (Cl. 75—45)

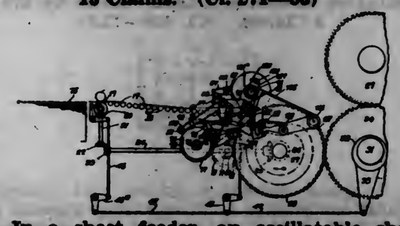
A process for making a stainless metal composition which comprises intimately admixing finely divided particles of iron, nickel and chromium, which have clean surfaces and are of a size sufficiently small to pass through a 200 mesh screen, substantially in the proportion of iron 74%, nickel 8% and chromium 18%, subjecting the resulting admixture to a pressure of not less than 20,000 pounds per square inch, and heating the compressed mixture in a non-oxidizing atmosphere to a temperature above 900° C. but not substantially above 1200° C. to form a substantially homogeneous product.

1,922,039
CONVEYER FOR USE IN HEAT TREATING FURNACES
Henry H. Harris, Detroit, Mich.
Application October 4, 1930. Serial No. 486,320
11 Claims. (Cl. 263—6)



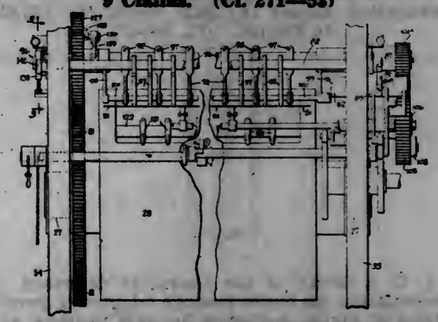
1. A conveyer adapted for use in a heat treating furnace comprising articulated rolls, each roll comprising a plurality of segments spaced apart to permit expansion, centrally disposed grooves in the periphery of said segments, rollers adapted to engage said grooves, brackets to support said rollers, means on each segment for securing same in axial driving relation with the adjacent segment, end segments, and means for supporting same outside of the furnace.

1,922,040
SHEET FEEDER
Charles W. Harrold, Cleveland, Ohio, assignor to Harris - Seybold - Potter Company, Cleveland, Ohio, a Corporation of Delaware
Application April 10, 1928. Serial No. 268,825
13 Claims. (Cl. 271—53)



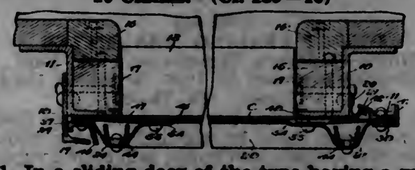
1. In a sheet feeder, an oscillatable sheet-feeding member and an adjustable stop device comprising an eccentrically mounted pawl coacting with a ratchet connected with said member to variably limit the rearward stroke of said feeding member.

1,922,041
SHEET FEEDER
Charles W. Harrold, Cleveland, Ohio, assignor to Harris - Seybold - Potter Company, Cleveland, Ohio, a Corporation of Delaware
Original application April 10, 1928, Serial No. 268,825. Divided and this application May 9, 1930. Serial No. 450,961
9 Claims. (Cl. 271—53)



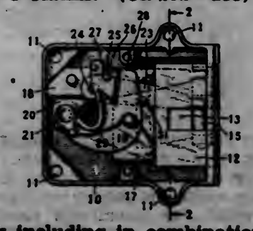
1. In a sheet feeder, sheet-holding means, an oscillatable sheet-feeding member having sheet grippers, means for shifting said member further rearwardly against the sheet at the end of the reverse stroke, and means for closing said grippers on the sheet during said reverse stroke of said member.

1,922,042
RAILWAY CAR METAL DOOR
Harold H. Henricks, Youngstown, Ohio, assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a Corporation of Ohio
Application March 5, 1931. Serial No. 520,249
10 Claims. (Cl. 189—46)



1. In a sliding door of the type having a main portion of sheet metal having outwardly disposed, integral, vertical corrugations near the edges thereof and flat marginal portions beyond the corrugations in the original plane of the sheet metal; bridging plates extending over said corrugations on the inner side of the door and secured to the sheet metal along the opposite sides of the corrugations, the main sheet metal portions, inwardly of the corrugations, being laterally outwardly offset where said plates are secured thereto, whereby the outer marginal vertical portions of said plates are disposed in a plane laterally inwardly of the plane of the inner vertical edges of said plates.

1,922,043
LOCK
John Hines, Astoria, N. Y., assignor to Segal Lock & Hardware Co., Inc., New York, N. Y., a Corporation of New York
Application February 1, 1928. Serial No. 250,983
8 Claims. (Cl. 292—138)



1. A lock including in combination, a casing, a bolt projectable beyond said casing, a second bolt slidably mounted on said first bolt and extendable beyond the body thereof, a block movably carried by said first-named bolt, an extended portion forming a part of said casing and to be engaged by said block and act as a keeper for the same, a lever connected to said block to actuate the same, means connecting said second bolt to said lever and a means for rocking said lever and projecting and retracting said first-named bolt.

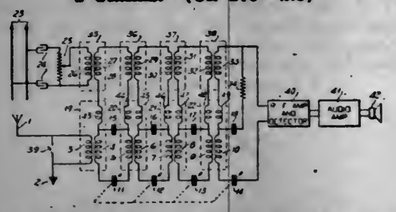
1,922,044
RELEASABLE OIL WELL PACKER
James H. Howard, Houston, Tex., assignor to J. H. McEvoy & Company, Houston, Tex.
Application November 24, 1930
Serial No. 497,756
8 Claims. (Cl. 166—10)



1. A packer for wells including a liner, a packer barrel thereon, a packer on said barrel, a mandrel having a swivel connection with the upper end of

said packer, and means on said mandrel engaging said packer barrel to allow downward sliding movement of said mandrel on said barrel, but to prevent upward sliding movement thereof, said means being movable upwardly on said barrel through rotation thereof on said barrel.

1,922,045
COMBINED WIRED RADIO AND SPACE RADIO RECEIVING SYSTEM
Alfred H. Hotopp, Jr., Caldwell, N. J., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware
Application May 17, 1932. Serial No. 611,834
4 Claims. (Cl. 179—2.5)



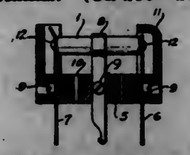
1. A radio receiving system comprising, wire lines for conveying carrier frequency energy, a potentiometer capacitively coupled to said wire lines, a space radio frequency energy collecting system, a switch for selectively rendering said space radio frequency energy collecting system operative or inoperative, an inductively coupled series of resonant circuits, each of said circuits including carrier frequency inductances and space radio frequency inductances, the carrier frequency inductances of one resonant circuit being coupled with the carrier frequency inductances of another, and the space radio frequency inductances of one resonant circuit being coupled with the space radio frequency inductances of another, the first resonant circuit of said series being coupled with said potentiometer and with said space radio frequency energy collecting system, an adjustable tuning element in each of said circuits, and a utilization circuit operatively coupled with said resonant circuits.

1,922,046
BALE COVERING AND METHOD OF PREPARING SAME
Barton D. Hubbard, Portland, Maine, assignor to Brown Company, Berlin, N. H., a Corporation of Maine
Application July 3, 1929. Serial No. 375,872
2 Claims. (Cl. 100—14)



2. A method of folding a rectangular bale wrap, which comprises first folding the four corners in upon the same face so that the inturned portions of the side edges of the wrap lie on transverse lines mutually distant the length of a gin press platen, then folding the marginal side portions over the folded corner portions to make the width of the folded wrap approximately equal to that of said platen.

1,922,047
SPACE DISCHARGE TUBE AND MOUNTING THEREFOR
August Hund, West Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware
Application November 2, 1931. Serial No. 572,552
4 Claims. (Cl. 250—27.5)



1. A space discharge device and mounting therefor comprising a two-electrode gaseous discharge tube, a pair of terminal clips engageable with the electrode terminals of said tube, means comprising a metallic member supported by said mounting in position to serve as an external control electrode for said tube and means comprising a hooded portion of said mounting for protectively shielding one of said electrode terminals from accidental personal contact.

1,922,048
AIR-EXCLUDING AND AUTOMATIC DRAINAGE DEVICE
Jens Peter Jacobsen, Lyngby, Denmark, assignor to Standard Brands Incorporated, New York, N. Y., a Corporation of Delaware
Application August 18, 1931. Serial No. 557,859
16 Claims. (Cl. 99—2)

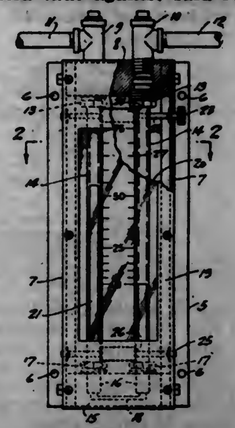


1. In a device of the character described, in combination, an outlet passage adapted to permit egress of liquid, a closure for said passage, and positive retaining means normally holding such closure in place, such retaining means comprising an element readily disrupted when wetted.

10. In an apparatus adapted for irradiation of liquids, the improvement which comprises a chamber for the liquid undergoing treatment and an adjacent chamber separated from said liquid chamber by a frangible material and containing irradiating means in combination with an outlet passage adapted to permit egress of liquid, a closure for said passage and positive retaining means normally holding said closure in position, such retaining means comprising an element readily disrupted when wetted.

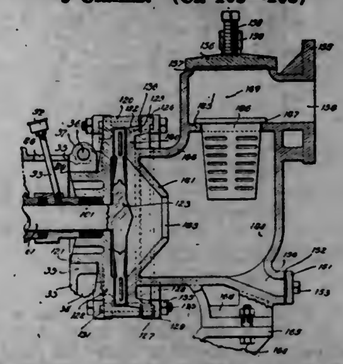
1,922,049
DIRECT READING MANOMETER
Milton O. Jensen, Huntington Park, Calif.
Application February 23, 1932. Serial No. 594,448
5 Claims. (Cl. 73—31)

5. A gauge having parallel sight gauge limbs, an indicating liquid in said limbs, and a reading scale intermediate said limbs; said scale comprising a strip with indicia thereon, a pair of spaced rollers mounted on axes extending transverse of said limbs, said strip being passed over said rollers so that a display run is provided ranging in the direction of said limbs, a tension spring connecting the ends of said strip to provide an endless band held taut against said rollers, one of



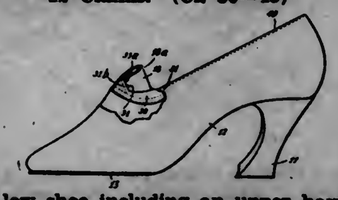
said rollers being an operating roller to cause the strip to travel on turning of the operating roller, and means for turning said operating roller to adjustably position the indicia with relation to the indicating fluid.

1,922,050
PUMP
Harry E. La Bour, Elkhart, Ind.
Application June 28, 1929. Serial No. 374,409
9 Claims. (Cl. 103—103)



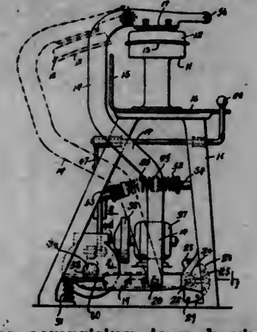
1. In a pump, a back casing comprising a cup like portion having a hub projecting concentrically from one of its faces, and an annular flange on its opposite face, a trap having a circular portion registering with said back plate flange and cooperating with that plate to define a runner chamber, said circular portion containing a conical member whose base opens into the chamber and whose apex projects into said trap, means for holding said trap and casing plate together, a discharge port leading from said chamber, the walls of which are formed integral with the walls of the back plate and terminate in a flange, a separator having a flange registering with said discharge port flange to connect the separator to the port, a drive bracket having a clamping ring engaging said hub to thereby attach said casing plate on the bracket, said bracket and clamping ring together permitting the casing to be rotated with respect to the inlet trap and separator to bring said port flange into registration with the separator flange, a multivane runner in said runner chamber having a shaft projecting through a packing member disposed within said hub and a bearing supported on said bracket and supporting said runner in said chamber.

1,922,051
SHOE
Morris Lapidus, Long Island City, N. Y., assignor, by mesne assignments, to Charles Miller, Esq., Trustee
Application November 26, 1930
Serial No. 498,213
12 Claims. (Cl. 36—45)



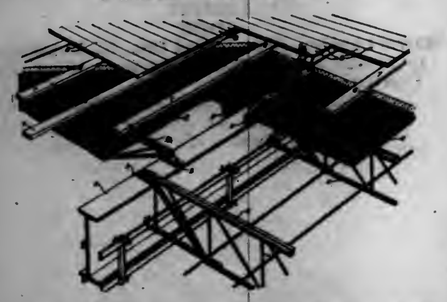
1. A low shoe including an upper having an instep portion, and a lining, said upper being folded under said instep portion and stitched to said lining a substantial distance from the line of folding, the folded portion of said upper presenting a smooth bent edge to the top instep portion of the foot and a smooth contact portion extending from the line of fold an appreciable distance toward the toes.

1,922,052
GARMENT PRESS
James C. Ledbetter, Brooklyn, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York
Application April 26, 1924. Serial No. 709,147
20 Claims. (Cl. 68—9)



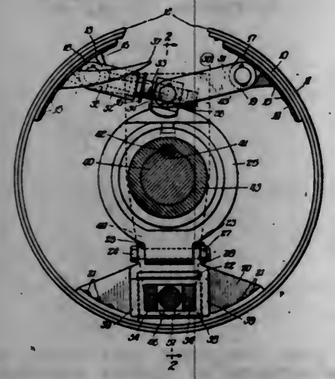
1. A press comprising jaws having arcuate pressing surfaces, an upright swingable support having one end thereof anchored to the upper jaw, the other end being pivotally supported on a fulcrum point underneath the jaws when closed, the fulcrum point being concentric with the arcuate pressing surfaces, said swingable support affording concentric movement of the upper jaw about the fulcrum point and guiding it in and out of overlapping travel in relation to the lower jaw to fully expose the latter, operating means cooperating with the swingable support for actuating the upper jaw to produce and release jaw compression, means affording slight jaw separating clearance movement, and means causing the upper jaw to throw itself off the lower jaw at the end of the releasing operation.

1,922,053
FLOOR CONSTRUCTION
Thomas A. Lacy, Canton, Ohio, assignor to Ingalls Steel Products Company, Birmingham, Ala.
Application June 1, 1931. Serial No. 541,215
6 Claims. (Cl. 72—71)



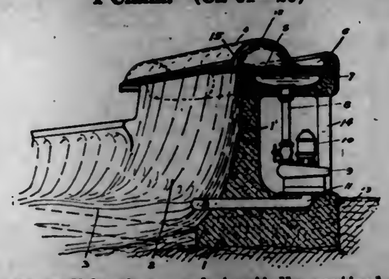
5. In a floor or ceiling construction, a girder, a plurality of joists resting at their ends on said girder and extending laterally in opposite directions therefrom, a concrete slab extending over said joists and embedding the ends thereof, and a reenforcing element embedded in the top of said slab and extending laterally of said girder to bridge said ends of said joists.

1,922,054
FRICTION GRIPPING DEVICE
Chauncey L. C. Magee, Benjamin S. Pfeiffer, and Rudolf S. Pfeiffer, Chicago, Ill., assignors to Friction Devices Company, Chicago, Ill., a Corporation of Delaware
Application May 9, 1927. Serial No. 190,089
21 Claims. (Cl. 192—35)



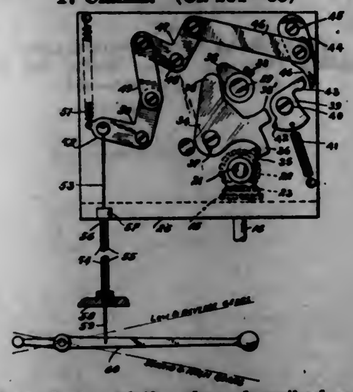
1. In friction gripping devices two elements to be coupled together, a member having a friction surface fixed to one of said elements and a bracket fixed to the other of said elements, a gripping member carried by said bracket through a connection permitting slight relative movement between said gripping member and said bracket, and means carried by said gripping member for actuating, said gripping member—and a second means carried by one of said elements for imparting operative movement to said first means but permitting a relative radial displacement therebetween, whereby, said gripping member is caused to grip said friction surface to couple said elements together, irrespective of mis-alignment of said elements.

1,922,055
HYDROELECTRIC POWER GENERATOR
Karl Frederick Marx, Dearborn, Mich.
Application February 6, 1931. Serial No. 514,027
1 Claim. (Cl. 61—29)



A sea wall having a substantially vertical front face, a basin like depression formed in the top of said wall, and an inverted substantially U-shaped plate suported above and spaced from said sea wall with the front edge extending outwardly in front of said wall and with its rear edge extending over said basin like depression.

1,922,056
METER RECORDING MECHANISM
Carlton L. McMullen, Toronto, Ontario, Canada, assignor to Patent Enterprises Limited
Application August 20, 1932. Serial No. 629,635
17 Claims. (Cl. 234—35)

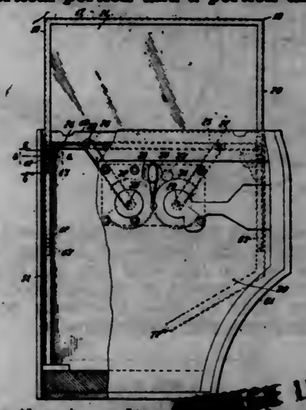


1. In a device of the class described, a set of register wheels, a depressible head therefor, a driven element of a meter actuated by fluid flowing therethrough, means connected to said driven element for fractionally advancing the register wheels each time the driven element is set in operation, said means having a disengaged position to sever the driving connection, a cam connected to the depressible head, and releasable mechanism normally restraining the said means in its disengaged position, said cam being adapted to release said mechanism upon depression of the head.

1,922,057
WINDOW CONSTRUCTION
Stanley Menten, Kalamazoo, Mich., assignor to Limousine Body Company, Kalamazoo, Mich., a Corporation of Michigan
Application February 13, 1932. Serial No. 592,730
17 Claims. (Cl. 296—48)

1. In a window structure, a window frame having a pair of depending leg portions, a pair of guide channels within which said frame is adapted to slide, and a plurality of pairs of ball bearings carried by said leg portions, the balls of each pair bearing against each other and engaging the sides of the guide channels to provide for easy relative movement between the frame and guide channels.

14. In a window structure, a window frame having a pair of depending leg portions, a pair of guide channels within which said frame is adapted to slide, one of said channels having a substantially vertical portion and a portion disposed at



an angle thereto and one [illegible] depending leg portions being pivotally secured to the frame proper, and a plurality of ball bearings carried by the lower end of the pivoted leg portion to engage opposite sides of the channel and guide the leg and cause pivotal movement of the leg portion during relative movement between the frame and the guide channels, the opposite sides of the guide channel being so formed as to confine said ball bearings and prevent said pivoted leg from jumping out of said channel.

LIBRARY OF

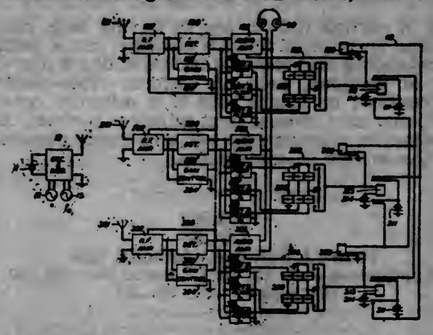
1,922,058
ORNAMENTAL HEEL
Charles Miller, Long Island City, and Maynard Lieberman, Bronx, N. Y.
Application May 21, 1930. Serial No. 454,233
5 Claims. (Cl. 101—129)



1. The method of ornamenting a celluloid covered heel which comprises applying a stencil to said heel, applying a coating of a solvent for celluloid to render the same tacky and then applying a coating of a coloring material through said stencil while the celluloid is tacky, and removing said stencil.

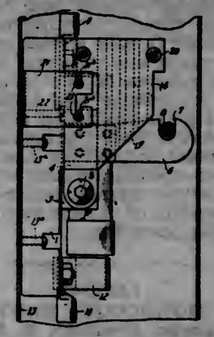
1,922,059
RADIO RECEIVING SYSTEM
Russell S. Ohl, Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application November 1, 1930. Serial No. 492,635
11 Claims. (Cl. 250—2)

4. In a radio system, a transmitter including means for generating a carrier wave and means for modulating said wave by a signal wave of a band of frequencies and by a plurality of pilot waves of frequencies lying substantially in that portion of the frequency spectrum occupied by the signal modulated carrier wave, and a plurality of radio receivers so related to each other that the received waves and component parts thereof vary differently with varying transmission conditions, each of said receivers comprising means for demodulating the received waves, means for



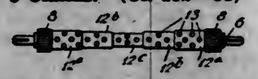
separating the demodulated pilot waves from the essential components of the demodulated signal wave [illegible] from each other, a signal wave path and means responsive to the relative amplitudes of the detected pilot waves for rendering said signal wave path inoperative when the relative amplitudes of the pilot waves vary by a predetermined amount from their relative amplitudes at the transmitter.

1,922,060
ARC EXTINGUISHING DEVICE FOR ELECTRIC SWITCHES
Joseph Sachs, West Hartford, Conn.
Application January 15, 1931. Serial No. 508,944
2 Claims. (Cl. 200—144)



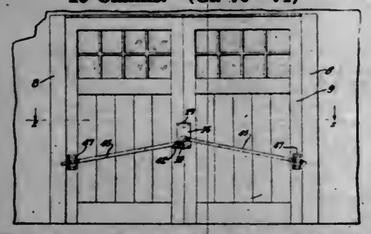
1. In an electric switch having a fixed contact and a pivotally mounted contact movable into and out of engagement with the fixed contact, the combination with the said contacts of an arc extinguishing structure comprising two separate insulating members respectively constituting two substantially parallel walls closely adjacent and at opposite sides of the said contacts and one of the members having an integral transverse projection constituting a curved third wall extending transversely between the first said walls closely adjacent the path of movement of the said movable contact, the last said wall being formed with a series of opening extending therethrough and providing chambers for receiving and condensing arc-formed gases.

1,922,061
HAIR CURLER
Karl Georg Ströher, Rothenkirchen in Vogtland, Germany
Application February 25, 1932, Serial No. 594,988, and in Germany July 23, 1931
5 Claims. (Cl. 132—33)



4. A curling rod for use in waving hair, comprising an internal heating element, and a casing surrounding said element and including a plurality of portions, each of uniform cross-section throughout its length and of a different cross-sectional area from a next adjacent portion, the portion having the smallest area being disposed in the middle of said casing.

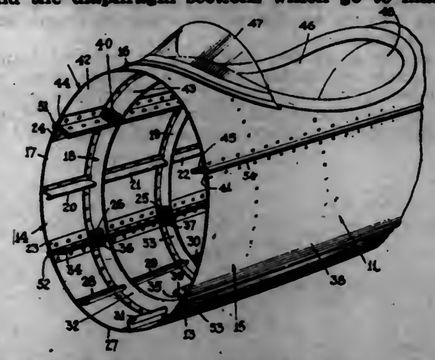
1,922,062
LOCK
Frank J. Sullivan, Oshkosh, Wis.
Application July 27, 1931. Serial No. 553,307
10 Claims. (Cl. 70—74)



1. In a lock, the combination of a relatively flat plate positionable adjacent a door and having a circular opening and having a second opening communicating with said circular opening, a handle having its inner end extended through said circular opening, a relatively flat locking disk rigidly connected with said handle and rotatable in the circular opening of the plate, a tumbler movable in said second opening of the plate into engagement with the locking disk to prevent manipulation of the handle, key operated means for moving said tumbler, a second relatively flat plate positioned adjacent the exterior of said first plate for holding the locking disk and tumbler in position, said second plate also having an opening through which the inner end of the handle extends, and means operable upon manipulation of the handle for accomplishing the locking operation.

1,922,063
MONOCOQUE BODY
Stanley I. Vaughn, Kenmore, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc., a Corporation of New York
Application May 1, 1931. Serial No. 534,217
2 Claims. (Cl. 244—30)

1. The method of constructing metal aircraft bodies of the monocoque type which consists in providing a plurality of sheet metal cover sections; in preforming and shaping the several cover sections so that said cover sections when placed edge to edge will conform, in the aggregate, to the shape of the preconceived body design; in next fitting and fastening to said cover sections at intervals of space longitudinally thereof a plurality of transversely extending diaphragm sections, and along the edges of said cover sections fitting and fastening angle plates which are substantially coextensive with said cover sections; in thereafter so assembling said cover sections edge to edge as to bring the inwardly projecting flanges of the angle plates face to face, and the diaphragm sections which go to make



up the completed diaphragms end to end; and in finally uniting the flanges of the angle plates which are face to face and also the diaphragm section ends to provide in the aggregate a rigid monocoque body or shell internally reinforced both transversely and longitudinally.

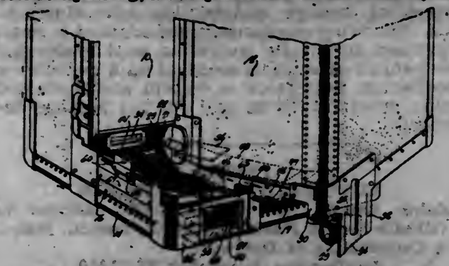
1,922,064
VALVE
Carl J. Westling, Chicago, Ill.
Application March 4, 1931. Serial No. 520,016
9 Claims. (Cl. 251—63)



1. In combination, a valve casing having a main valve opening adapted for connection in a conduit, and a valve adapted for closing said opening and movable to open position, said casing having means for ventilating the same when said valve is closed, said ventilating means comprising an opening adapted to be closed by said valve in its open position with respect to said main valve opening.

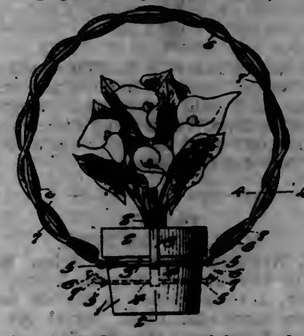
1,922,065
TRUNK
George Henry Wheary, Racine, Wis., assignor to Wheary Trunk Company, Racine, Wis., a Corporation of Wisconsin
Application June 6, 1932. Serial No. 615,598
9 Claims. (Cl. 190—18)

1. In a trunk of the character described, a stationary section, a movable section hinged to said stationary section and overlying a portion thereof, means to support the portion of said movable section remote from the hinge when in open position comprising, a compartment in the underlying



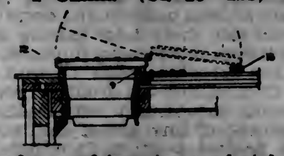
portion of said stationary section, a closure for said compartment fixed to said movable section and a castor fixed to said closure and adapted to support said movable section in opening.

1,922,066
FLOWERPOT HANDLE
Louis Wolf, Philadelphia, Pa.
Application March 19, 1931. Serial No. 523,771
1 Claim. (Cl. 215—100)



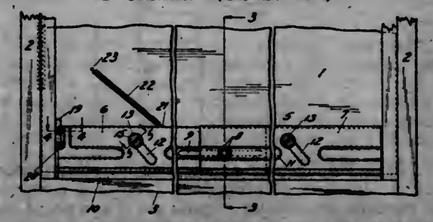
A flower pot holder comprising a bottom integral ring adapted to engage the lower tapered portion of a conventional flower pot, a handle member having its lower ends secured to said ring, and straps carried by said ring and of a length substantially equal to the height of said flower pot, said straps being pliant and form-retaining when bent, whereby the portions of said straps extending beyond the upper rim of said flower pot may be deflected to form gripping members to engage the upper rim of said pot to prevent disengagement of said pot from said ring.

1,922,067
HATCH COVER
Benjamin Hamilton Yoder, Chicago, Ill., assignor, by mesne assignments, to Industrial Patents Corporation, Chicago, Ill., a Corporation of Delaware
Application October 25, 1930. Serial No. 491,100
1 Claim. (Cl. 16—128)



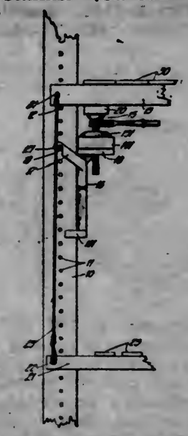
A hinge for a refrigerator car hatch cover and which said cover when closed overlaps the crown of the hatch, said hinge comprising two leaves appropriately hinged, one of said leaves being flat and adapted for attachment to the top of the hatch cover and of sufficient length to extend substantially across the full width thereof, the pintle end of said flat leaf being adapted for projecting beyond one side edge of the hatch cover, the companion leaf being shaped so as to provide a portion that extends downwardly from the pintle, thence toward the hatch opening, thence downwardly, and thence for a substantial distance in a direction away from the hatch opening whereby said last mentioned leaf is adapted to follow the contours in cross section of the hatch construction.

1,922,068
ANTIDRAFT APPARATUS FOR DOORS
Theodore Dale Yoder, Iowa City, Iowa
Application October 13, 1932. Serial No. 637,567
4 Claims. (Cl. 20—68)



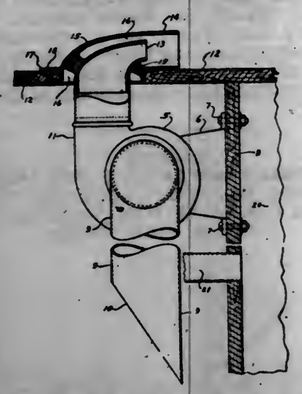
1. A bar for an anti-draft device for the purpose indicated comprising a pair of roughly flat channeled units, one fitted within the other and being longitudinally slidable therein, means for securing the two in relatively adjusted position, and floor-contacting resilient means mounted in an edge of the channeled member.

1,922,069
SCAFFOLD
Claude H. Adams, Glens Falls, N. Y.
Application July 28, 1931. Serial No. 553,488
3 Claims. (Cl. 304—29)



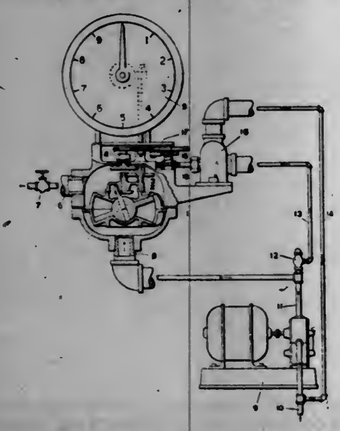
1. In a device of the character described, a plurality of columns each provided with transversely extending spaced openings, supporting pins received in said openings, a needle beam engaging and supported by pins in said openings, a jack support, means for supporting the same on a pin in another opening, and a jack mounted on said support and engageable with said needle beam.

1,922,070
FAN INJECTOR
Edward L. Anderson, Grosse Ile, Mich., assignor to American Blower Corporation, Detroit, Mich., a Corporation of Delaware
Application November 10, 1930
Serial No. 494,589
7 Claims. (Cl. 98—43)



1. In a ventilating apparatus, in combination with a plurality of chambers having a covering, air current producing means on the wall of one chamber, air passageways extending from said current producing means to a plurality of chambers, means to conduct the air from the current producing means to a point without said chambers and in line with the covering of the chambers, and means cooperating with said last-named means to draw the air from another chamber due to the force of the air expelled by the current producing means.

1,922,071
LIQUID METER
Robert S. Bassett, Buffalo, N. Y.
Application May 2, 1930. Serial No. 449,234
3 Claims. (Cl. 73—167)



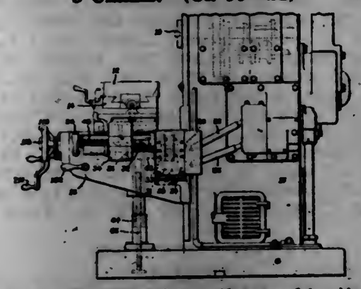
1. In a liquid meter, a liquid operated measuring mechanism, a registering mechanism, connecting means positively connecting said registering mechanism to said liquid operated measuring mechanism and preventing operation of said registering mechanism independent of the operation of said liquid operated measuring mechanism, a friction drive clutch, an overrunning clutch, and an auxiliary motor operatively connected through said friction drive clutch to said registering mechanism and adapted to exert increased torque for actuating said registering mechanism when the speed of said registering mechanism falls below a certain predetermined point, substantially as and for the purpose described.

1,922,072
AUTOMATIC SAFETY RAZOR
Adolph Bandis, New York, N. Y., assignor to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware
Application November 28, 1930
Serial No. 498,777
11 Claims. (Cl. 30—12)



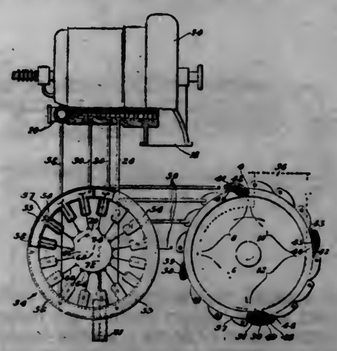
9. In a safety razor, a handle, a guard movable with respect thereto, blade-clamping means cooperating with said guard and including sections movable toward and away from each other, and means controlled by the movement of said guard for moving said sections.

1,922,073
MILLING MACHINE
Arthur F. Bennett, West Barrington, R. I., assignor to Brown and Sharpe Manufacturing Company, a Corporation of Rhode Island
Application April 26, 1932. Serial No. 607,565
8 Claims. (Cl. 90—21)



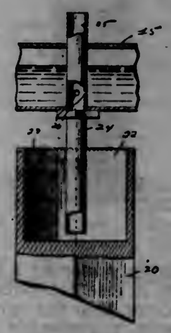
1. In a milling machine, the combination with a machine column of supports comprising a table, saddle and knee, separate power feed trains for the saddle and knee, an independent reverser in each of said trains, control levers for each of said reversers located at different operating stations on the machine, each of said levers having an intermediate neutral position and operating positions at each side thereof for moving the corresponding support in opposite directions, control members for actuating each of said supports manually from either the front or rear of the machine, and mechanism rendered operative upon movement of any one of said power controls from neutral position in either direction to disengage each of the hand control members for the corresponding feed.

1,922,074
ELASTIC FLUID TURBINE
Oliver D. H. Bentley, Norfolk, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Mass., a Corporation of Massachusetts
Application May 5, 1928. Serial No. 275,415
4 Claims. (Cl. 253—56)



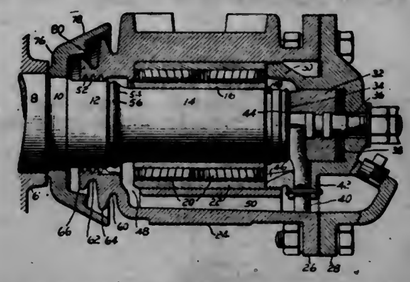
1. The combination with a variable speed driven element having a characteristic such that the driving power is a function of speed, of an elastic fluid turbine having a rotor with buckets and a plurality of individual sets of nozzles, each set of nozzles being of a capacity to supply fluid to drive the turbine and the driven element at a selected speed, sources of fluid at different pressures, means for separately connecting the separate sources with the separate nozzle sets, the nozzles of the several sets having different expansion ratios so as to deliver the fluid from their respective sources at different absolute velocities, but at relative velocities all of which have the same inclination to the rotor at the selected speeds.

1,922,075
DEDUSTING APPARATUS
Harry E. Breisford, Detroit, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a Corporation of Michigan
Application April 20, 1931. Serial No. 531,571
18 Claims. (Cl. 183—21)



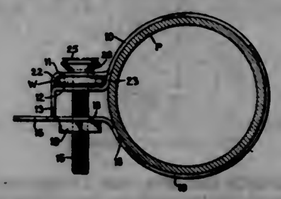
1. In combination, a gas passage, an element in said passage in the path of the gas flow therethrough, and continuously operating means for effecting a wave-like flow of a dust collecting liquid over said element.

1,922,076
GUARD OR SHIELD
Richard J. Brittain, Jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich., a Corporation of New Jersey
Application March 21, 1928. Serial No. 263,362
3 Claims. (Cl. 286—5)



1. In a device of the character described, a casing, a shaft projecting into the casing and journalled for rotation therein, the outer end of the casing closely surrounding the shaft and having its exterior surface formed with a plurality of peripheral drain grooves alternating with outwardly extending annular projections, the projection nearer the end of the casing being of smaller diameter than the next projection, a flaring shield outside the casing and surrounding the projections to protect the casing from foreign matter, the shield having an internal annular projection extending into the groove between two adjacent projections on the casing to obstruct the movement of foreign matter towards the shaft, and the shield also being fixed to the shaft whereby consequent rotation of the shield with the shaft will tend to throw foreign matter outwardly away from the casing and its exterior drain grooves; substantially as described.

1,922,077
GROUND FITTING
Stephen N. Buchanan, Elizabeth, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a Corporation of New Jersey
Application November 8, 1930. Serial No. 494,283
2 Claims. (Cl. 173—273)



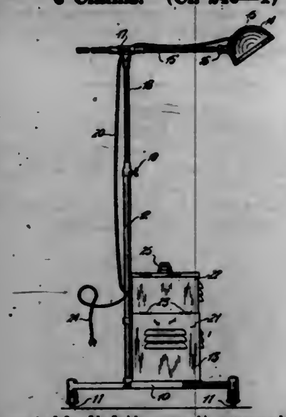
1. A grounding fitting comprising a flexible band to wrap around a grounded conductor, a center band struck from the flexible band adjacent one end thereof forming spaced flexible wire clamping members and extending transversely therefrom, spaced shoulders relatively widely separated formed by the wire clamping members, passages through both members and through the flexible band, a clamping screw passing through the passages to clamp the band upon the conductor, and a pressure member on the screw having a width substantially less than the inner spacing between the wires and contacting with one of the wire clamping members to clamp the wire between the wire clamping members.

1,922,078
WINDOW CLEANING DEVICE
Edward J. Curry, St. Paul, Minn.
Application June 10, 1929. Serial No. 369,548
10 Claims. (Cl. 15—251)



1. A window cleaning device including, a collapsible frame comprising foldable sections, said sections adapted to be extended from top to bottom of a window frame, means for cleaning the outside of the window pane when said frame is extended in the window frame, and means within the building on the inside of the window being washed for operating said cleaning means.

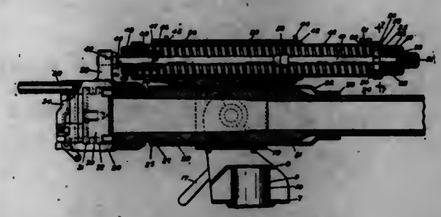
1,922,079
EMERGENCY LIGHTING
Edward C. Dixon, Lakewood, Ohio
Application February 9, 1932. Serial No. 591,843
6 Claims. (Cl. 240—1)



2. A portable lighting unit comprising a lamp, a plurality of power sources for supplying energy to said lamp, one of said sources being a supply line and the other source being a storage battery, means for charging said storage battery, and means responsive to line energization for operatively connecting said lamp for normal operation from said supply line and emergency operation from the battery.

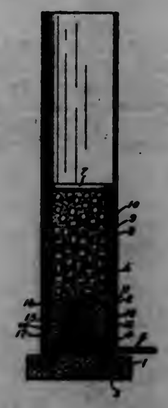
1,922,080
CANNON
Louis L. Driggs, Jr., Tippecanoe City, Ohio
Application October 24, 1931. Serial No. 570,819
15 Claims. (Cl. 89—43)

8. In combination, a support, a relatively heavy cradle having supporting sleeve for a cannon barrel and recoil mechanism, a relatively thin guide sleeve carried in said cradle for supporting a cannon at widely spaced points exceeding the width of the cradle sleeve to support the cannon, and a recoil cylinder of relatively light material mounted in a relatively heavy sleeve of the cradle, and means interconnecting the recoil mechanism in the cylinder with the cannon barrel.



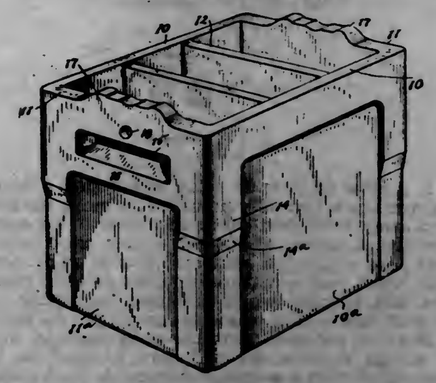
10. In a recoil mechanism, a recoil cylinder, a piston rod and a piston having an outer series and an inner series of ports, a spring-loaded valve adapted to cover one series of ports on one side of the piston and a recoil spring on the other side of the piston, a supplementary cylinder in said recoil cylinder having ports and a supplementary piston on said piston rod adapted to enter therein to cushion the movement of the piston rod at the extreme limit of its stroke in one direction.

1,922,081
FIREWORKS
Louis L. Driggs, Jr., Tippecanoe City, Ohio, assignor to The Tipp Fireworks Company, Tippecanoe City, Ohio, a Corporation of Ohio
Application November 27, 1931
Serial No. 577,413
11 Claims. (Cl. 102—21)



1. In combination, a mortar, a lifting charge in the base thereof, a fuse extending from the exterior of the mortar into the interior thereof in said lifting charge, a projectile resting on said lifting charge fitting within said mortar, a fuse plug in the projectile having a display chamber and a passageway, a time fuse in said passageway ignited by the lifting charge, a display material in the chamber, and pyrotechnic contents in the projectile.

1,922,082
STORAGE BATTERY CONTAINER
Carl J. Dunsweiler, Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a Corporation of West Virginia
Application August 5, 1929. Serial No. 383,451
2 Claims. (Cl. 206—3)

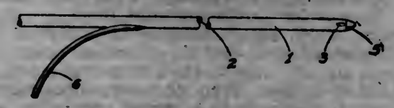


1. A storage battery container having end walls each provided with a depressed panel portion and a relatively thick upper portion extending between the top of said panel portion and the top edge of the container and having a stub handle portion projecting above said top edge for hand grip and battery hold-down purposes, said thick upper portion having a handhold depression therein below said top edge and also having extensions depending on opposite sides of said panel portion to reinforce the corners of the container, said upper portion also having a rib portion extending transversely below said handhold depression and joining said depending extensions, said upper portion including said stub handle portion, said depending extensions, and said rib portion all being of substantially the same uniform thickness.

1,922,083
PROCESS OF MAKING CLAY PRODUCTS
Elbert E. Fisher and Malvin A. Bacrnstein, St. Louis, Mo., assignors to National Pigments and Chemical Company, St. Louis, Mo., a Corporation of Missouri
No Drawing. Application June 4, 1931
Serial No. 542,696
4 Claims. (Cl. 106—11)

1. In the art of making clay products, the process comprising, adding to the ceramic mix a barium aluminate in an amount sufficient to prevent surface discoloration.

1,922,084
SELF RETAINING CATHETER AND DRAINAGE TUBE
James W. Gerow, Reno, Nev., assignor of one-half to Charles A. Stephens, Reno, Nev.
Application April 24, 1931. Serial No. 532,496
2 Claims. (Cl. 128—349)



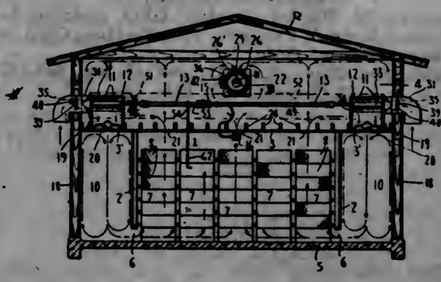
2. A device as described comprising a soft rubber tube having an expansible sheath normally fitting over the nose of the tube and presenting with the tube an uninterrupted smooth surface for entry into the cavity to be drained, the tube having an air duct in the wall thereof opening into the space between the nose of the tube and the sheath whereby the latter may be subjected to air pressure to expand it relative to the tube, the tube having a drainage outlet behind the sheath.

1,922,085
BLUING PACKAGE
Enos Gordon Goudey, Newton, Mass.
Application March 25, 1932. Serial No. 601,283
3 Claims. (Cl. 68—11)



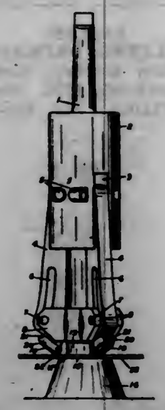
2. A package of the character described comprising a container having a water soluble section, said container being adapted to enclose a quantity of powdered bluing, and a straining enclosure engaging and holding said container therein.

1,922,086
BROODER
Thomas H. Hart, Springfield, Ohio, assignor, by mesne assignments, to The Buckeye Incubator Manufacturing Company, Beachwood, Ohio, a Corporation of Ohio
Application April 22, 1929. Serial No. 356,955
26 Claims. (Cl. 119—31)



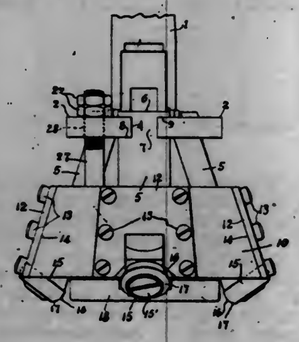
1. In a brooder, a structure having a brooding chamber, an auxiliary chamber above said brooding chamber in communication therewith through restricted openings, a separate temperature modulating compartment in said auxiliary chamber, one portion of which is in communication with the space containing said brooding chamber through a fixed opening, another portion of said compartment being in communication through permanent openings with said auxilairy chamber and also with outside atmosphere, said compartment being otherwise closed to said auxiliary chamber, means for forcibly circulating the air, and means for exhausting air from the auxiliary chamber in an amount substantially equal to the fresh air supplied to said temperature modulating compartment.

1,922,087
HEAD FOR FORMING ROLLED AND EXTRUDED METAL ARTICLES
Theodore M. Hiester, Dayton, Ohio, assignor to United Aircraft Products, Inc., Dayton, Ohio, a Corporation of Ohio
Application July 10, 1931. Serial No. 549,856
11 Claims. (Cl. 113—52)



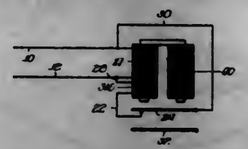
1. In combination, an arm supporting member, a plurality of arms pivoted thereto, means to guide said arms downwardly and outwardly, said means including a stem having a rotatable head thereon, and means on the ends of said arm for extruding metal engaged by the head and for rolling the metal so extruded, said guiding means being arranged to guide said roller and extruding means substantially in a straight line downwardly and outwardly.

1,922,088
MECHANISM FOR EXTRUDING AND ROLLING METAL
Theodore M. Hiester, Dayton, Ohio, assignor to United Aircraft Products, Inc., Dayton, Ohio, a Corporation of Ohio
Application July 10, 1931. Serial No. 549,857
12 Claims. (Cl. 113—52)



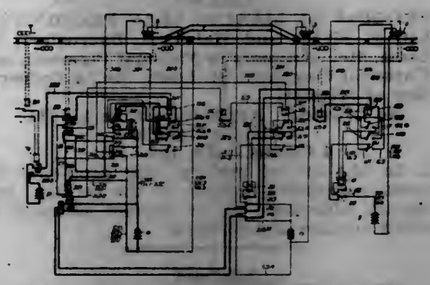
1. In a head for extruding metal articles, a spindle, a reciprocating arm supporting head, arms mounted on the head to reciprocate therewith but adapted to move laterally thereof, a guiding head adapted to engage and guide said arms, said guiding head having thereon a rotatable retaining head.

1,922,089
SLOW ACTING RELAY
Mark H. Hovey, Madison, Wis., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania
Application September 6, 1930. Serial No. 480,061
2 Claims. (Cl. 175—320)



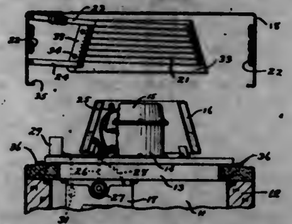
1. A slow to pick up relay comprising a core, an armature pivotally mounted to move toward and away from said core and biased to an open position, a source of current, a first winding on said core connected with said source when and only when said armature occupies its open position and effective when energized for setting up in said core a flux which is insufficient to move said armature away from its open position, and a second winding on said core adapted to be connected with a source of current in such manner that the current flowing in said second winding will build up to its ohms' law value at a rate which is determined solely by the inductance of the winding and so proportioned that when said second winding is energized it will set up in said core a second flux which opposes and exceeds said first flux, whereby said armature is moved from its open to a closed position by said second flux at the expiration of a relatively long interval of time after said second winding first becomes energized.

1,922,090
SIGNALING SYSTEM
Mark H. Hovey, Madison, Wis., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania
Application January 12, 1931. Serial No. 508,135
7 Claims. (Cl. 246—41)



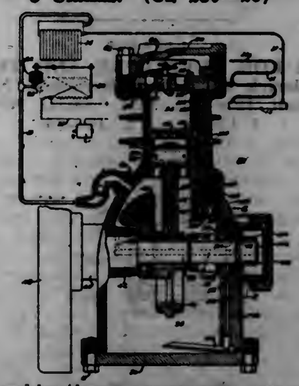
1. A railway signaling system including a trackway having forward, intermediate and rear blocks, forward, intermediate and rear signals controlling the entrance of each block; a directional relay having a pick-up coil and a holding coil of lower conductance-turns than the pick-up coil, means for rendering said holding coil ineffective when said trackway is occupied by a train travelling in the direction not controlled by said signals only; a circuit in part controlled by said directional relay for controlling said intermediate signal, and a circuit controlled as to polarity by said directional relay for controlling said rear signal.

1,922,091
REFRIGERATING APPARATUS
Harry B. Hull, Dayton, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a Corporation of Delaware
Application May 30, 1930, Serial No. 457,581
Renewed August 19, 1932
14 Claims. (Cl. 62—116)



1. A refrigerating apparatus comprising, an evaporator, a refrigerant circulating unit including a heat dissipating element, said evaporator and said element being operatively connected with said unit, means forming a compartment for said heat dissipating element and forming a confined space within said compartment for a cooling fluid, said means including a wall portion for said cooling fluid disposed in intimate thermal contact with a wall of said heat dissipating element, and said means also including another wall portion for said cooling fluid in intimate heat exchange relation with atmosphere exterior of said compartment.

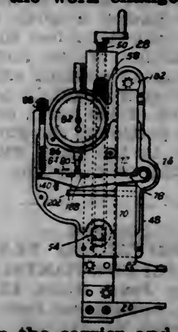
1,922,092
COMPRESSOR UNIT
Harry B. Hull, Dayton, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a Corporation of Delaware
Application August 30, 1930. Serial No. 478,974
5 Claims. (Cl. 230—29)



1. In combination, a compressor, means supplying a compressible fluid to said compressor, means receiving compressible fluid from said compressor, means for driving said compressor, means for unloading said compressor, and additional means for pumping said compressible fluid for rendering said unloading means inoperative.

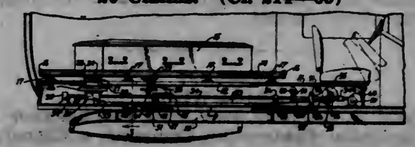
1,922,093
GAUGE
Philip H. Hutchinson, Montclair, N. J., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware
Application October 13, 1927. Serial No. 226,919
29 Claims. (Cl. 51—165)

1. In a device of the character described, a gauge carrier, a feeler arm secured to the carrier for supporting the carrier in a floating manner by continuous contact with the work surface to be sized, a second feeler arm mounted on the carrier and movable with respect to the first arm as the work changes in size, a lever



fulcrumed on the carrier and controlled by the movable arm, and means for varying the fulcrum of the lever to set the movable arm in accurately adjusted position; substantially as described.

1,922,094
HEARSE
Walter T. Jacobs, Freeport, Ill., assignor, by mesne assignments, to Big Rock Ranch Company, Los Angeles, Calif., a Corporation of California
Application November 15, 1928, Serial No. 319,674. Renewed March 29, 1932
20 Claims. (Cl. 214—65)



1. In a hearse of the side-delivery type: a movable casket supporting platform; power operated means for actuating said platform and comprising a reversible motor; and switch control means for said motor comprising a movable shaft and a pair of cams on said shaft operative, respectively, for actuating said motor in opposite directions, and a pair of stop arms operative to move said switch control means into neutral position at the limiting positions of said platform.

1,922,095
HANDBALL GLOVE
Harry R. Jones, Brooklyn, N. Y.
Application July 13, 1932. Serial No. 622,287
1 Claim. (Cl. 2—159)



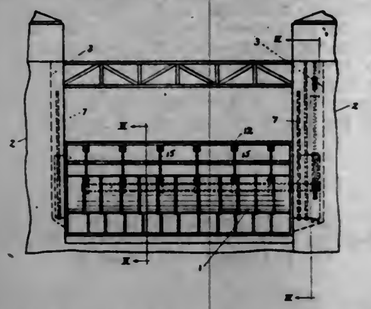
A hand ball glove having a palm portion and a thumb portion, said palm portion being made of

a seamless piece of material covering the entire palm of the hand from the base of the fingers to the wrist, said palm portion and thumb portion of the glove being of less width at the wrist portions thereof than at other portions to form a glove having a girth at the wrist portion which is materially less than the girth at the middle portion of the hand, the back of the glove having an opening extending from the wrist portion approximately to the middle portion of the back of the hand, and means for drawing the wrist portion of the glove into snugly fitting relation to the hand without folding the material of said wrist portion.

1,922,096
METHOD OF PREPARING YEAST RAISED DOUGH FOR BAKING
Henry Jung, Hines, Ill.
No Drawing. Application June 22, 1931
Serial No. 546,160
4 Claims. (Cl. 99—10)

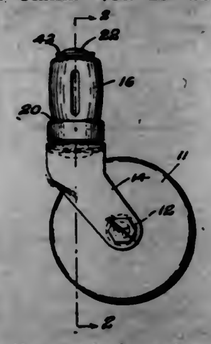
1. The process of preparing yeast-raised dough for baking which consists in (1) mixing a batch of dough omitting the customary salt; (2) mixing a second batch of dough containing an excess of salt, the two batches when combined containing all desired ingredients in the proper proportions; (3) holding the saltless batch at too low a temperature to allow the yeast to ferment until the gluten content has been advantageously softened; (4) holding the salty batch until its gluten content has been advantageously softened; (5) thoroughly mixing the two batches together and bringing them to the proper temperature for yeast fermentation; and (6) allowing the dough to rise.

1,922,097
DRUM WEIR
Bernard H. Kersting, Ben Avon, Pa., assignor to The Dravo Contracting Company, a Corporation of Pennsylvania
Application November 9, 1932. Serial No. 641,840
6 Claims. (Cl. 61—22)



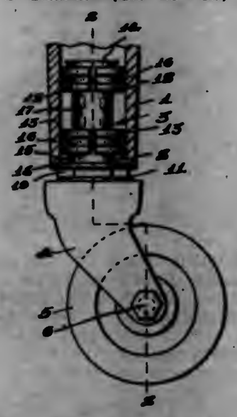
1. In a drum weir, a drum movable in a plane with which its axis is coincident and in a direction perpendicular to its axis, rotating as it moves, means for moving said drum, a movable flap borne by said drum, and flap-swinging means, including a torsion member arranged within the drum and rotatable independently of the drum, two flexible tension members oppositely wrapped upon said torsion member, and means for exerting tension alternately and exclusively upon one or the other of the two tension members, the said tension-exerting means being adapted to continue at rest during the operation of the drum-moving means.

1,922,098
CASTER CONSTRUCTION
Frederick K. Killam, Syracuse, N. Y.
Application May 11, 1931. Serial No. 536,471
1 Claim. (Cl. 16—21)



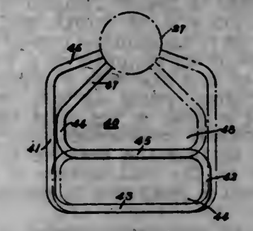
An antifriction swivel caster including in combination an expansible and contractile sleeve, bearings at the upper and lower ends thereof, a spindle mounted in the bearings and a fork at the lower end of the spindle in which a caster wheel is mounted, the spindle having a shoulder near its upper end thrusting upward against the upper bearing, and the lower bearing including upper and lower sections, the latter thrusting against the head of the fork and the spindle having a shoulder thrusting against the upper side of the lower section, the sleeve having a shoulder thrusting downward against the upper section of the lower bearing, all whereby the spindle is rigidly secured to the fork, and the sleeve is capable of expanding and contracting relatively to the spindle and maintain the bearing at the upper end of the spindle.

1,922,099
CASTER FOR FURNITURE AND THE LIKE
Frederick K. Killam, Syracuse, N. Y.
Application July 17, 1931. Serial No. 551,342
1 Claim. (Cl. 16—38)



In a caster wheel for furniture and the like, the combination with a member formed with a socket, of a stem extending into the socket and threaded at its upper end and having a lower wedge member secured thereto intermediate of its ends at the lower end of the socket, an upper complemental wedge member threaded on the upper end of the stem, expansible means between the stem and the inner wall of the socket and operated by the wedge members for engaging the inner wall of the socket, an abutment which is a separable piece from the stem mounted on the stem at the lower end of the socket and coacting with the open end of the socket to form a closure therefor, said abutment being separable from, and thrusting against the lower wedge member, means on the stem for turning it to tighten and loosen the wedge members, said means thrusting against the abutment, a wheel support swivelly mounted on the lower end of the stem below said means and including upper and lower washers formed with raceways in their peripheries for receiving balls which coact with complemental raceways in the support, the upper washer thrusting against said means and a shoulder on the stem thrusting against the lower washer, whereby upon turning of the stem by said means, the abutment thrusting against the end of the socket and said means thrusting against the swivel bearing, the upper wedge member is moved relatively to the lower.

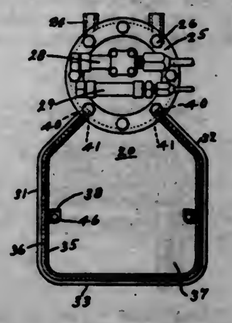
1,922,100
REFRIGERATING APPARATUS
Jesse G. King, Dayton, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a Corporation of Delaware
Application January 31, 1929. Serial No. 336,415
5 Claims. (Cl. 62—126)



5. In a refrigerating apparatus, a cooling unit comprising a header, a plurality of enclosures open at one end and adapted to receive ice trays, said enclosures being disposed one above the other, a plurality of duct loops arranged in longitudinal alignment and each having its ends connected to one side of the header and having a portion extending between said enclosures and a portion extending along one side of said enclosures, and duct means lying along the opposite sides of said enclosures and connected to the other side of said header.

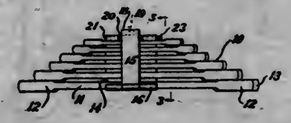
1,922,101
REFRIGERATING APPARATUS
Jesse G. King, Dayton, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a Corporation of Delaware
Application April 30, 1930. Serial No. 448,580
2 Claims. (Cl. 62—126)

1. A cooling unit for mechanical refrigerating systems comprising in combination, sheet metal members having a portion thereof spaced apart and sealed at the edges of the spaced apart portion to provide refrigerant conveying duct means therebetween, said members being bent to form walls of a sharp freezing zone, means secured to the inner surface of a wall of said freezing zone for supporting a receptacle to be cooled within the zone, and means on said first



named means for detachably connecting a cover plate to one end of the freezing zone.

1,922,102
TOOL KIT HOLDER
Jacob J. Kroecker, Cleveland, Ohio, assignor to The Fairmount Tool and Forging Company, Cleveland, Ohio, a Corporation of Ohio
Application September 10, 1931
Serial No. 562,991
5 Claims. (Cl. 206—16)



1. In a tool kit holder, binder means adapted to engirdle and clamp a plurality of tools together including a plurality of members hinged together, hook means provided on one of the members, and crank means movably mounted on another member detachably engaging said hook means, whereby cooperative engagement of said hook and crank means pressure clamps tools engirdled by the members against each other.

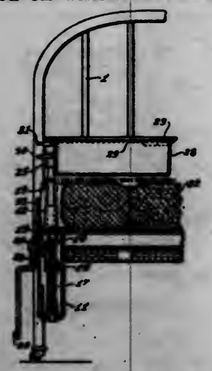
1,922,103
PROCESS OF IMPROVING THE QUALITY OF TRANSFORMER OILS
Thomas E. Layng, Urbana, Ill., and Mortimer A. Youker, Wilmington, Del., assignors to Ellis-Foster Company, a Corporation of New Jersey
Application October 26, 1929. Serial No. 402,759
7 Claims. (Cl. 252—1)

1. The process of improving the dielectric strength of insulating oil which comprises incorporating therewith a relatively small proportion of sodium ethylate.

1,922,104
HOSPITAL BED
Clarence D. Lukens, St. Louis, Mo.
Application August 22, 1931. Serial No. 558,692
2 Claims. (Cl. 5—90)

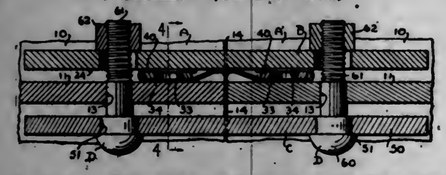
1. A hospital bed having a bed frame, a housing rigidly supported on one side of said frame, elevating mechanism in said housing including a vertically slidable post, a cantilever detachably mountable on said post to overhang only that

side of the bed on which it is mounted, a seat



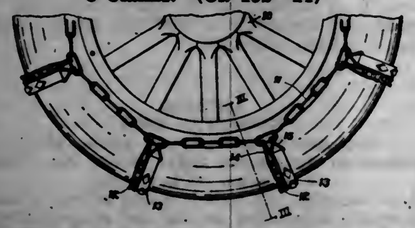
supported by said cantilever, and a pan removable to the under side of said seat.

1,922,105
COMBINATION RAIL BOND AND CONNECTING PLATE
Verner L. Martin, Mount Hope, W. Va., assignor of one-half to Edward J. McCool, MacDonald, W. Va.
Application February 10, 1932. Serial No. 592,119
7 Claims. (Cl. 173—279)



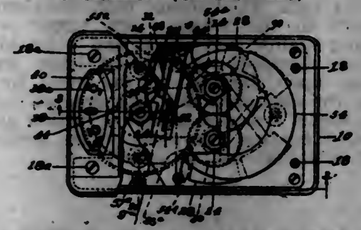
3. In a combination rail bond and splice plate, an elongate body portion, a wing of substantial U-shaped cross section and of electrical conducting material secured at an end of one leg to a face of said body portion with the end of the other leg in contact with said body portion, said first named leg being longer than the last named leg, and the bight portion of said wing spaced from said body portion, and a resilient member carried between said legs urging them apart.

1,922,106
TIRE CHAIN
James C. McKay and Benjamin J. King, Pittsburgh, Pa., assignors to The McKay Company, Pittsburgh, Pa., a Corporation of Pennsylvania
Application November 30, 1931
Serial No. 577,878
8 Claims. (Cl. 152—14)



1. Tire chain structure comprising cross members arranged in pairs, one member of each pair being composed of metallic links and the other member being of non-metallic material, the members of each pair being disposed in proximity to one another, and being of closely similar width and thickness, so that at the higher speeds, with the non-metallic members in advance of the said links, the links will be prevented from engaging the roadway.

1,922,107
MEASURING INSTRUMENT
Walter P. Muther, Wellesley, Mass., assignor to Muther Manufacturing Company, Boston, Mass., a Corporation of Massachusetts
Application March 24, 1930. Serial No. 438,380
3 Claims. (Cl. 116—116)



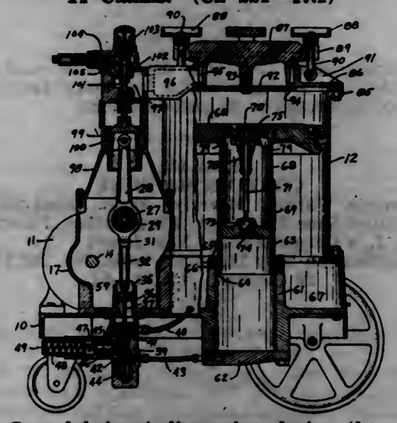
1. An instrument for indicating the rate of change of velocity of a moving body comprising a casing; a weighted lever pivotally mounted within the casing and adapted to be turned by the force of inertia; a dial operatively connected with said lever so as to rotate in accordance with the swing thereof; and a latch within the casing arranged to permit rotation of said dial in one direction and to engage said dial and thereby prevent rotation in the reverse direction; the said latch being mounted on a pivot above the surface of said dial with a portion on one side of said pivot resting on said surface and with another portion on the other side of said pivot substantially counterbalancing the first said portion so that the pressure of the first said portion on the dial surface is negligible when the latch is positioned to permit rotation of the dial.

1,922,108
BUFFING WHEEL
Joseph W. Myers and Ernest E. Murray, Jackson, Mich.
Application February 21, 1930. Serial No. 430,416
12 Claims. (Cl. 51—193)



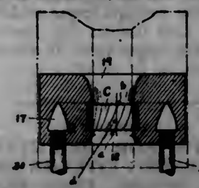
1. An annular buffing wheel consisting of a plurality of rings of cloth and a ring-shaped metal binding ring passing around the inner edges of said cloth rings and having its edges bent outward and towards each other so as to clinch the inner edges of said rings of cloth together firmly and permanently by the resilience of the material of said binding ring.

1,922,109
LUBRICANT DISPENSING DEVICE
James J. Peleuch, Newburg Heights, and Paul I. Schultz, Cleveland, Ohio, assignors to The United States Air Compressor Company, Cleveland, Ohio, a Corporation of Ohio
Application March 17, 1932. Serial No. 599,472
14 Claims. (Cl. 221—47.1)



1. In a lubricant dispensing device, the combination of a reservoir adapted to contain a supply of lubricant, a piston movable within said reservoir, a liquid actuated jack for raising said piston to eject lubricant from the reservoir, a pump for supplying liquid under pressure to said jack, a booster pump, said pumps having their cylinders in vertical alignment, a conduit between said booster pump and said reservoir, and a single motor-driven crank disposed between said cylinders for driving said booster pump and said pump for supplying liquid under pressure to said jack.

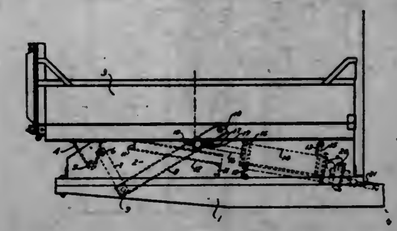
1,922,110
DIE STRUCTURE
William J. Schultz, Glassport, Pa., assignor to Firth-Sterling Steel Company, a Corporation of Pennsylvania
Application January 27, 1932. Serial No. 589,170
3 Claims. (Cl. 205—26)



1. A machine part comprising an annular metallic carbide block formed of laterally contacting sections, and a supporting body of modified cast iron cast and autogenously welded upon and around the outer surface of the block.

1,922,111
DUMP BODY CONSTRUCTION
Ralph E. Smith, Galion, Ohio, assignor to The Galion Metallic Vault Co., Galion, Ohio, a Corporation of Ohio
Application June 12, 1931. Serial No. 543,759
16 Claims. (Cl. 298—22)

1. In a dump truck, in combination with a frame and a body pivotally attached to the frame, a channel-shaped link at each side of the body pivotally connected at one end to the body a second link pivoted at its upper end to the frame and at its other end to the other end of the channel link, a guide on the frame, and means movable along the guide for operating the links to cause the body to dump, said means having a roller engaging the guide and a roller engaging in the channel of each channel-shaped link, whereby as the means moves along the guide the links will move along the second rollers.



1,922,112
CLOSURE
Lyle K. Snell, Detroit, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio
Application July 9, 1930. Serial No. 466,642
6 Claims. (Cl. 220—40)

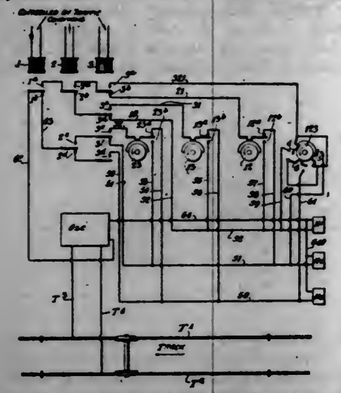


1. A closure comprising inner and outer wall structures having portions spaced to provide an air chamber therebetween, locking means carried by said inner wall structure, one of said wall structures having an opening therethrough for venting said chamber to atmosphere and said inner wall structure having an opening therethrough for venting said chamber to the interior of the device to which the closure is applied, and baffle means for the second mentioned opening formed from metal displaced from that opening.

1,922,113
TRAIN CONTROL SYSTEM
Andrew J. Sorensen, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania
Application December 12, 1931. Serial No. 580,663
29 Claims. (Cl. 246—63)

1. A circuit system including: a source of current, a plurality of current-modifying means each capable of imparting to the current a distinct characteristic different from that imparted by any other of the plurality of current-modifying means, a plurality of selective means, capable of individual actuation one to cause one and another to cause another of the plurality of current-modifying means to modify the current, and capable of simultaneous actuation to thereby cause the plurality of current-modifying means to act in turn to modify the current, a plurality of control means each responsive to the influence of current of a distinct characteristic and no two control means responsive to current having the same charac-

teristic, and means to indicate the energization



of a single control means or the energization in turn of a plurality of control means.

1,922,114

MANIFOLDING MACHINE

Milton C. Stern and Frank E. Pfeiffer, Dayton, Ohio, assignors to The Egry Register Company, Dayton, Ohio, a Corporation of Ohio

Application January 16, 1931. Serial No. 509,057
7 Claims. (Cl. 282—12)



3. In an apparatus for making duplicate records, a frame having a recess in its upper surface and an opening through the frame at one end of the recess for the passing of sheets of paper into the recess, guides for the sheets of paper on each side of the recess projecting over the edges of the sheets, and a roller in the opening for guiding the sheets into the recess.

1,922,115

ANTENNA ARRAY

John Stone Stone, San Diego, Calif., assignor to American Telephone and Telegraph Company, a Corporation of New York

Application April 12, 1930. Serial No. 443,830
9 Claims. (Cl. 250—33)



1. A linear antenna array consisting of a certain number of antennas and means to energize them in intensities along the array graded according to the intermediate terms of the binomial expansion with a number of terms greater than the number of the antennas.

1,922,116

ANTENNA ARRAY

John Stone Stone, San Diego, Calif., assignor to American Telephone and Telegraph Company, a Corporation of New York

Application April 12, 1930. Serial No. 443,832
7 Claims. (Cl. 250—33)

6. An antenna array consisting of a plurality of ungrounded linear antennas all parallel to a single vertical plane and at respective angles to the horizontal which are graded in magnitude,



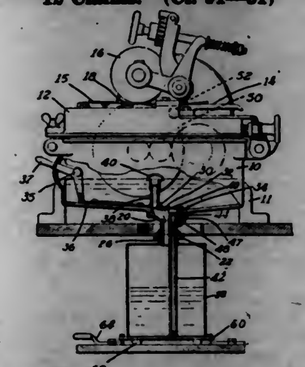
respective radio frequency detectors for said antennas, and a single audio frequency receiving device connected to all said detectors.

1,922,117

COATING MACHINE

Cameron Turner, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey

Application May 11, 1929. Serial No. 362,372
12 Claims. (Cl. 91—51)



6. A device of the class described, comprising a service reservoir for cement having a nozzle at the bottom, means for withdrawing cement from the reservoir and applying it to the work, a detachable container, means comprising a suction pipe readily attachable to said nozzle by a straight line movement for delivering cement from the container to the reservoir to maintain the cement level therein comprising recirculating and overflow return connections which include a pump, and means for forcing said container toward the reservoir to close the joint in the suction pipe.

1,922,118

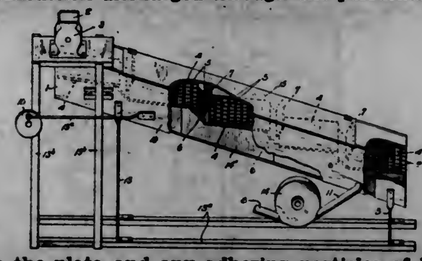
APPARATUS FOR DELINTING AND SOFTENING COTTON SEED

Arthur L. Weston, Little Rock, Ark.

Application November 10, 1931
Serial No. 576,187
2 Claims. (Cl. 88—28)

1. In a cotton seed delinter and heater, a casing having inlet and outlet ends, a guide conductor therein comprising a series of inclined guide plates disposed at different levels, the lower end of each guide plate of a series preceding a following guide plate being arranged to overhang the upper end of the succeeding plate, intermediate inclined guide plates between such ends of the first-named plates, each of said plates having rows of spaced electrical heaters and rows of spaced perforations between the heaters, means for introducing seed to be treated at the inlet end of the casing for travel by gravity over said guide plates, whereby in the course of travel

of the seed the seed will be tumbled over in its fall from plate to plate and the lint burned therefrom by the electric heaters and the products of combustion discharged through the perforations



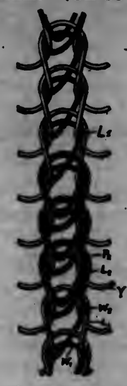
in the plate and any adhering particles of lint removed by attrition, and means for circulating air through the casing and perforations in the plates for discharging the products of combustion.

1,922,119

PROCESS AND MACHINE FOR PRODUCING KNITTED FABRICS

Paul W. Bristow, Wilmington, and Harold E. Houseman, Edge Moor, Del., assignors to Standard-Trump Bros. Machine Company, Wilmington, Del., a Corporation of Delaware

Application April 11, 1931. Serial No. 529,518
33 Claims. (Cl. 66—135)



1. The process of making a knitted fabric on a machine having a series of independently movable latch needles including, in the formation of a course, the steps of effecting the looping of a wrap yarn both about the shank of a needle below the latch thereof and above a loop of a previously formed course held on said shank below the latch, and also above the latch, of feeding a main yarn to the needle above the latch, and of moving the needle to draw a double loop of main and wrap yarns through the double loop of wrap and main yarns below the latch.

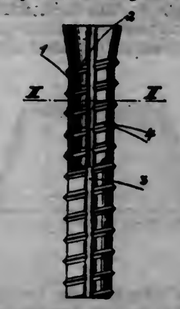
1,922,120

EXPANSION SHEATH FOR WOOD-SPIKES

Richard Bresig, Bad Charlottenbrunn, Germany

Application November 3, 1932, Serial No. 641,059, and in Germany October 5, 1931
4 Claims. (Cl. 85—2.4)

1. A sheath for railroad screw-spikes which comprises an internally and externally screw-threaded tube constructed of tough and yielding material, split longitudinally, the split edges thereof overlapping one another only for a portion of the length thereof at the upper end of the tube whereby water is prevented from percolating into the hole that receives the sheath when a screw-spike is screwed into position.

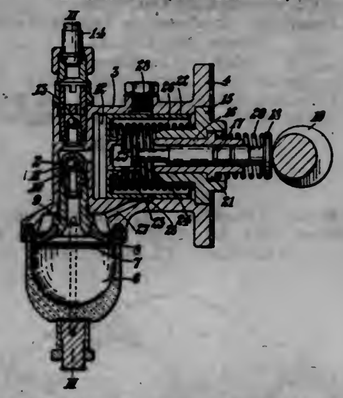


1,922,121

RECIPROCATING PUMP

Clement Brown, Birmingham, England, assignor to Amal Limited, Birmingham, England

Application February 19, 1932, Serial No. 594,079, and in Great Britain May 29, 1931
1 Claim. (Cl. 103—46)



In combination, a pump casing having a cylinder with a downwardly inclined passage leading from the lower portion of the cylinder, a piston movably mounted in the cylinder with its leading edge disposed always forwardly of the mouth of the passage, a container below the casing and communicating with the lower portion of the passage, inlet and exhaust valves for the pump above and communicating with the container and also intermediately with the pump, a supply tank, a supply connection leading from a low portion of said tank and connecting with the container, a loaded check valve in the supply connection, a return connection coupled to the output side of the pump and to a higher level of the supply tank, and a loaded valve in said return connection.

1,922,122

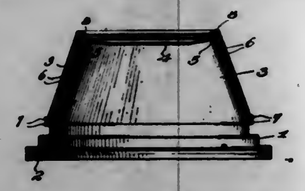
SUPPORT FOR STACKED ARTICLES

Herman Carew, Easton, Pa., assignor to Individual Drinking Cup Company, Inc., Easton, Pa., a Corporation of Pennsylvania

Application January 6, 1930. Serial No. 418,812
3 Claims. (Cl. 65—61)

3. The combination with a tapered flexible cup or the like having a bottom portion provided with

an inside circumferentially extending groove set inwardly from the side wall thereof, of a support for the cup or the like when in inverted position, said support including a tapered body portion terminating in a raised circumferentially

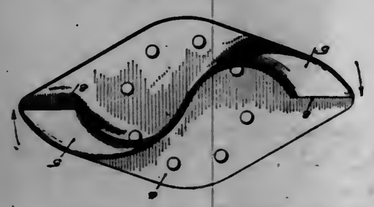


extending edge adapted to be received in the groove in the bottom of the cup or the like, to position and hold the side wall of the cup or the like parallel with but spaced from the body portion of the support.

1,922,123
INULIN NITRATE AND METHOD OF PRODUCING
Willard de C. Crater, Succasunna, N. J., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware
No Drawing. Application August 6, 1931 Serial No. 555,532
3 Claims. (Cl. 260—145)

1. The method of producing inulin nitrate which includes subjecting inulin to nitration with a mixture of nitric and sulphuric acids.

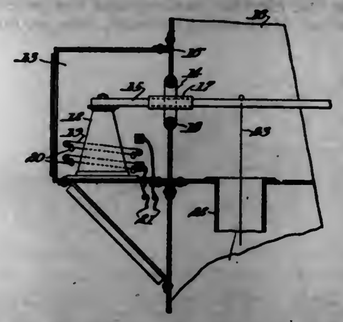
1,922,124
AIRCRAFT
James Heron Crosman, 3d, Wilmington, N. C.
Application May 16, 1932. Serial No. 611,691
10 Claims. (Cl. 170—159)



1. In a propeller of the class described, the combination of a propeller shaft, propeller blades connected to said shaft, and two reversely curved longitudinally extending portions of a hollow cone connected at their bases to and extending in front of the forward end of said shaft, the free edges of said cone portions being the leading edges thereof.

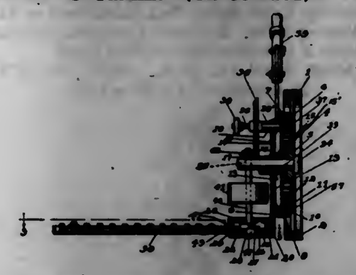
1,922,125
INSULATOR HEATING CIRCUIT
Alexander N. Crowder, Bound Brook, N. J., assignor to Research Corporation, New York, N. Y., a Corporation of New York
Application January 8, 1932. Serial No. 585,668
4 Claims. (Cl. 183—7)

1. Apparatus for the treatment of gases with high potential electrical discharges comprising a low voltage circuit, a transformer, a high voltage circuit, insulators in said high voltage circuit and heat-generating means in said low voltage circuit for regulating the current characteristics of the system, said means being associ-



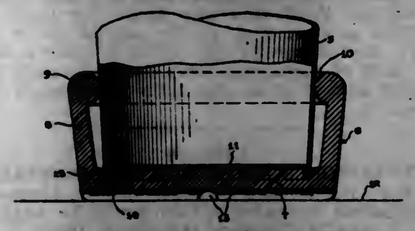
ated in heat transfer relation with said insulators.

1,922,126
HAND MOWER
Clarence T. Felts, Jackson, Mich.
Application August 2, 1932. Serial No. 627,255
8 Claims. (Cl. 56—264)



1. A mower comprising a traction wheel, a pair of superimposed reciprocatory cutter blades travelling in opposite directions with respect to each other, a vertically disposed balanced driving mechanism extending through and having superposed parts thereof above its lower end arranged in and directly engaging said blades for simultaneously reciprocating them in opposite directions, and means operated from said traction wheel for operating said driving mechanism.

1,922,127
PAIL SILENCER
John Russell Foley, New York, N. Y.
Application September 3, 1930. Serial No. 479,531
4 Claims. (Cl. 220—69)



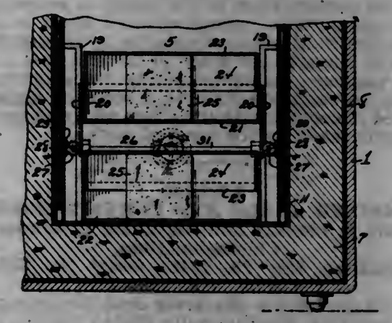
1. A pail silencer of tub-shape, formed of a single piece of resilient material and comprising an annular wall and a flat bottom, the top of said wall forming an inwardly extending annular bead of substantially cylindrical cross section adapted to grip the wall of the pail.

1,922,128
PIPE TONGS
John Claud Green, Dubach, La., assignor of one-third to Thomas L. Owen, Dubach, La.
Application October 28, 1930. Serial No. 491,775
1 Claim. (Cl. 81—70)



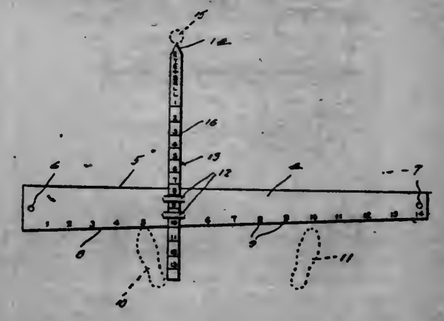
A wrench for round work comprising a handle, a plurality of spaced rigid jaws fixedly secured to said handle, said jaws being provided with upwardly inclined lower edges and upper inclined edges, oppositely directed ratchet teeth formed upon said lower edges, a gripping chain, a pivot bolt connecting one end of said gripping chain to the jaws substantially at the meeting point of the upper inclined edges of the jaws, a removable bolt carried by the jaws, said pivot bolt being mounted in the rear of said removable bolt whereby the free end of said gripping chain when secured will overhang said pivot bolt, a bridge block having a depending portion extending between said jaws, said removable bolt engaging said depending portion and fixedly securing said bridge block between the jaws, said bridge block overhanging the upper edges of said jaws and provided with a pair of spaced hooks upon the upper face thereof, said gripping chain adapted to pass between the jaws and fit over the top of said bridge block and engage said hooks for detachably securing the chain to said bridge block, the overhanging bridge block being adapted to transmit the strain from the chain to the top edges of said spaced jaw plates.

1,922,129
COMBINED STORAGE AND REFRIGERATION APPARATUS
Frederick C. Hannaford, Morgan City, La.
Application May 23, 1932. Serial No. 613,119
2 Claims. (Cl. 62—91.5)



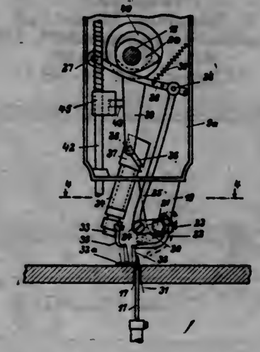
1. A combined storage and refrigeration apparatus comprising a cabinet having a chamber, upper and lower trays in said chamber and each including telescopic sections and a freezing space between said trays, said trays adapted to receive solid carbon dioxide, and means for adjusting the upper tray relative to the lower tray.

1,922,130
GOLFER'S STANCE APPLIANCE
Oscar Paul Haecredt, Elyria, Ohio
Application August 7, 1929. Serial No. 384,156
9 Claims. (Cl. 33—174)



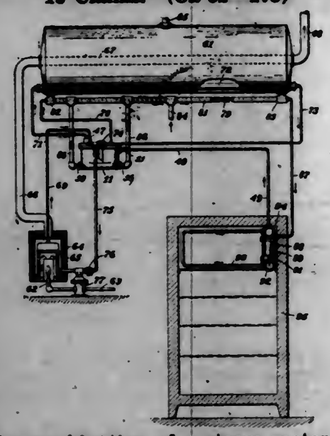
1. In a golfer's stance indicator a calibrated pliable strip of fabric used as a toe marker and a flexible ball position indicator strip secured thereto.

1,922,131
MACHINE FOR DARNING FAULTY PLACES IN PLUSH AND LIKE FABRICS
Kurt Heidel, Breyell, Germany, assignor to the Firm Plueschweberei Grefrath Aktiengesellschaft, Grefrath near Crefeld, Germany
Application April 5, 1930, Serial No. 441,953, and in Germany June 24, 1929
1 Claim. (Cl. 112—79)



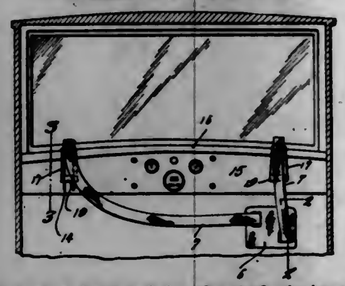
Machine for darning faulty places in plush and like fabrics by sewing in yarn loops, comprising, in combination, a work table, a darning needle mechanism arranged beneath said work table, a gripping mechanism arranged above said work table and adapted to hold the yarn loops, said gripping mechanism comprising a double armed swinging lever, a gripping member thereon, an oscillating lever adjustably connected to the double armed lever, a drive shaft, a cam on said shaft and flexible means retaining the oscillating lever in contact with said cam, whereby on the drive shaft being operated, the gripping member is operated to form yarn loops on the upwardly directed pile side of the plush fabric, and a holder co-operative with said member and adapted to grip in the previous yarn loop during the formation of each yarn loop, said holder being arranged beside said gripping mechanism, and an actuating shaft carrying said holder and adapted to oscillate and move longitudinally simultaneously.

1,922,132
REFRIGERATION
Bradford B. Holmes, Stonington, Conn.
Application February 28, 1928. Serial No. 256,463
13 Claims. (Cl. 62—178)



1. The combination of a steam motor having a condenser; a refrigerating plant driven thereby and including a compressor, a condenser and an evaporator connected in a closed circuit; a hot water storage tank; and means for transferring to the water in said tank the heat rejected by both said condensers.

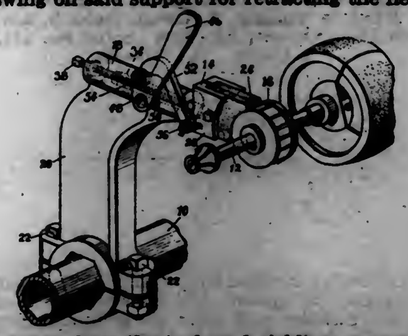
1,922,133
WINDSHIELD HEATER FOR MOTOR VEHICLES
Henry S. Hougium, Moorehead, Minn.
Application December 22, 1932
Serial No. 648,481
7 Claims. (Cl. 20—40.5)



1. A device for applying heated air to a windshield comprising a flexible hood provided with elastic means for securing it to a heater, flexible tubes connected at one end with the hood, supporting frames for the free ends of the tubes and having portions connected with the tubes in a manner to retain the free ends of the tubes in open position, and bracket means engageable with said frames for supporting the same adjacent to the windshield.

1,922,134
FINISHING MACHINE
John L. Jones, Weymouth, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application May 9, 1930. Serial No. 451,159
16 Claims. (Cl. 12—77)

1. In a finishing machine having a moving burnishing tool, a support, means for heating the tool mounted on said support for movement toward and away from said tool, means mounted to swing on said support for retracting the heat-



ing means from the tool, and yielding means arranged alternatively to urge the heating means against the tool and to cause the retracting means to hold the heating means in retracted position.

1,922,135
STITCH MARKING DEVICE
Johan E. Larsson, Copenhagen, Denmark, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application January 22, 1931, Serial No. 510,583, and in Denmark February 4, 1930
9 Claims. (Cl. 101—28)

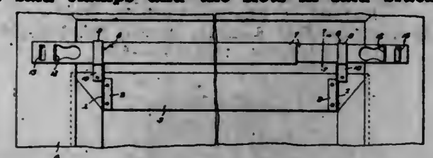


1. A marking device comprising a rigid sheet provided with one or more narrow slots following the configuration of the design to be marked, thin metal strips having serrated edges in said slots, the width of each strip being greater than the thickness of the sheet to the end that pressure applied to one edge will be transmitted directly through the strip to a piece of material placed in contact with the other edge and an impression made on the piece of work.

1,922,136
COMBINED SHADE AND CURTAIN HOLDER
Felix P. Lindsay and Alexander C. Lindsay, Chickasha, Okla.
Application July 28, 1932. Serial No. 625,462
1 Claim. (Cl. 156—23)

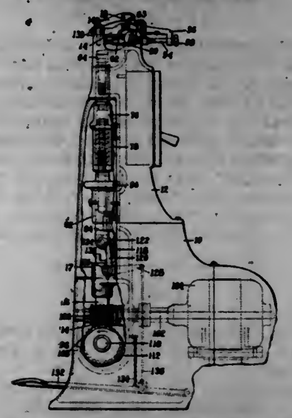
A fixture of the character described comprising brackets, longitudinally slotted flanges projecting from the brackets, a pair of telescopic curtain pole sections, and clamps adjustably securing the sections on the brackets, each of said clamps being formed from a single length of resilient metal and including a split loop encircling a section, the clamps further including normally diverging arms extending from the ends of the loops on opposite sides of the bracket

flanges, and means extending through the arms of said clamps and the slots in said bracket



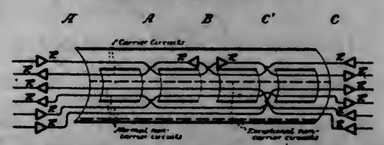
flanges for adjustably clamping the arms to the bracket flanges.

1,922,137
SOLE MOLDING MACHINE
Everett E. Murphy, Newburyport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application December 5, 1929. Serial No. 411,832
56 Claims. (Cl. 12—22)



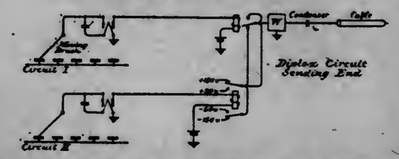
1. In a machine of the class described, a mold for applying shaping pressure to the margins of soles of different sizes or shapes, said mold being adjustable to conform to the edge contour of each sole irrespective of its size or shape in response to pressure of the edge face of the sole against it prior to the sole-shaping operation.

1,922,138
SYSTEM FOR TRANSPOSITION OF CONDUCTOR SETS IN CABLES
Harry Nyquist, Millburn, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York
Application December 17, 1931
Serial No. 581,742
9 Claims. (Cl. 179—78)



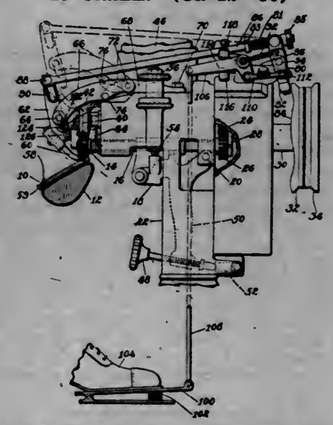
1. A cable conductor system comprising two shielded compartments side by side, conductor pairs therein, and repeaters for certain of said pairs at a certain point along the length of said cable conductor system, the conductor pairs having such repeaters being transposed at this point relatively to the pairs not having such repeaters at this point.

1,922,139
TELEGRAPH SYSTEM FOR SUBMARINE CABLES
Harry Nyquist, Millburn, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York
Application September 7, 1932
Serial No. 632,011
17 Claims. (Cl. 178—63)



1. In a cable signaling system the method of signaling which consists in transmitting over the cable an impulse element of a unit time duration receiving it as a train of impulses of magnitude m_0, m_1, m_2, etc., in the middle of the nth, $(n+1)$th, $(n+2)$th, etc., time units, the magnitudes being so related that the algebraic sum of the magnitudes of even subscripts equals zero and the algebraic sum of the magnitudes of odd subscripts equals zero, and every magnitude previous to m_0 shall be equal to zero in the middle of its time unit.

1,922,140
CHANNEL CEMENTING MACHINE
Fred Ricks, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application September 27, 1932, Serial No. 635,083, and in Great Britain October 21, 1931
13 Claims. (Cl. 12—80)

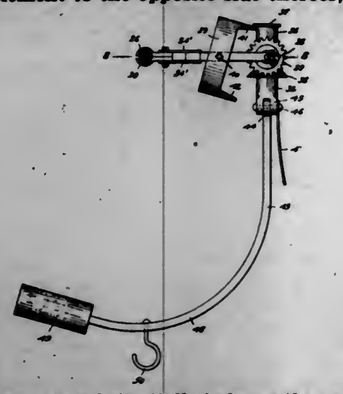


1. In a machine for cementing the channels of shoe soles, a coating applying member, a channel flap engaging tool, and means for imparting to the tool vibratory movement in a direction transversely of a channel engaged by the coating member.

1,922,141
CONVEYER
Ramsey Smith, Puerto Castilla, Honduras
Application September 12, 1932
Serial No. 632,799
10 Claims. (Cl. 198—130)

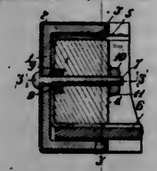
1. In a conveyer, a traveling flexible element, a carrier unit embodying a carrier element piv-

otally connected with the flexible element, means to shift the carrier element from one side of the flexible element to the opposite side thereof, and



weight means to substantially balance the carrier element when shifted to the generally horizontal position upon either side of the flexible element.

1,922,142
SIGN AND DISPLAY STRUCTURE
Christian Schneider, Chicago, Ill.
Application February 10, 1933. Serial No. 656,072
6 Claims. (Cl. 40—125)

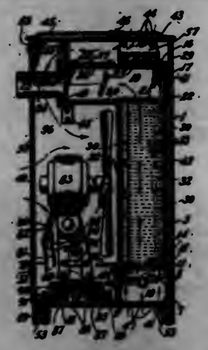


6. A sign or display structure comprising a plate and a frame for supporting the same, said frame comprising a substantially inflexible internally channeled member presenting a peripheral groove of greater width than the thickness of the said plate, the peripheral edge portion of the latter being engaged in said groove, a flexible channeled member mounted in the groove of said frame with its flanges confined between the peripheral edge portion of said plate and a wall of the said groove for holding said plate against movement within said frame, bolts securing the web of the flexible channeled member to the bottom wall of the groove of the frame, said bolts having long shanks extending through and projecting from the mouths of the groove of said flexible channeled member, and a filler for the latter secured within the same by means of said bolts.

1,922,143
METHOD FOR EGG PRESERVATION
Paul F. Sharp, Ithaca, N. Y., assignor to Cornell University, Ithaca, N. Y., a Corporation of New York
No Drawing. Application July 11, 1928
Serial No. 292,029
5 Claims. (Cl. 99—11)

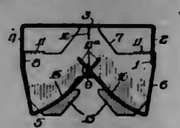
1. The method of preserving eggs which comprises preserving the eggs by maintaining the same in an atmosphere containing carbon dioxide of sufficient concentration to maintain the pH of the white of the egg at substantially 7.6 even if continued for a period of several months.

1,922,144
UNIT HEATER
Eugene L. Snyder, Canton, Ohio
Application July 8, 1931. Serial No. 549,460
10 Claims. (Cl. 126—110)



2. A unit heater including a cabinet, a radiator within the cabinet and having a plurality of flues, a burner chamber communicating with the lower ends of the flues, a preheating chamber communicating with the upper ends of the flues and extending rearward beyond the flues, air inlet apertures in the cabinet adjacent to the preheating chamber, and means beneath said rearward extension and behind said flues, for drawing air around the preheating chamber and forcing the air between the flues of the radiator.

1,922,145
EGG CARTON
Felix Troyk, Morris, Ill., assignor to Self-Locking Carton Company, Chicago, Ill., a Corporation of Illinois
Application April 13, 1932. Serial No. 604,856
2 Claims. (Cl. 229—29)

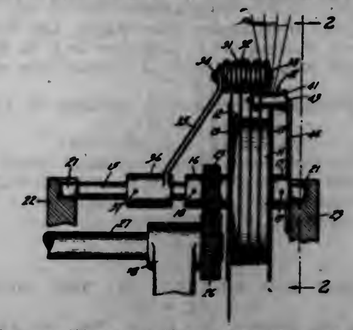


1. An egg carton having front and rear walls, cross partitions extending between said walls, a bottom section folded upwardly along its central portion to form a longitudinal partition of substantially inverted V-shape, one of the sides of said longitudinal partition having an extension cut from the other side of said longitudinal partition adjacent the apex thereof, said extension projecting upwardly from said first mentioned side and in the plane thereof.

1,922,146
THREAD FEEDING MECHANISM
Henry J. Tynan, Ridgewood, N. J.
Application March 4, 1931. Serial No. 520,018
5 Claims. (Cl. 117—21)

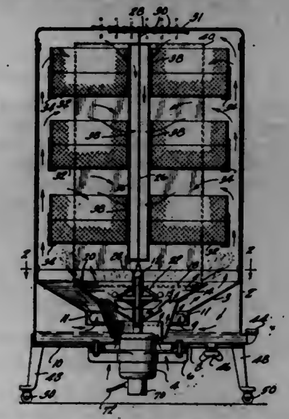
1. In machines of the character described, a thread feeding mechanism comprising in combination a feed roller of which the effective diameters become progressively greater as the threads of filaments in their several lappings advance thereover from substantially the point at which they are initially received by said feed roller to substantially the point at which they depart therefrom toward the take-up bobbin or other receiver, and a guiding member associated

therewith to maintain the several lappings of said threads or filaments in substantially constant



relative positions as they pass about said feed roller.

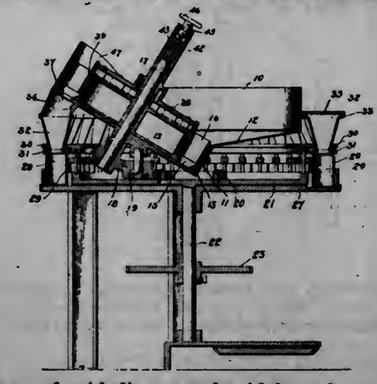
1,922,147
ATOMIZING AND EVAPORATING DEVICE FOR VEGETABLES AND THE LIKE
Nathaniel B. Wales, New York, N. Y., assignor to Vaporedair Corporation, New York, N. Y., a Corporation of New York
Application October 1, 1932. Serial No. 635,846
11 Claims. (Cl. 312—115)



9. A display stand for vegetables and the like characterized by a water sump in said stand, containers therein, means for supporting said containers above said sump in said stand, a motor driven means including a cone having its lower end immersed in said sump for atomizing water and circulating air in operable relationship with said sump to atomize and evaporate said vegetables and the like from beneath the containers containing the same.

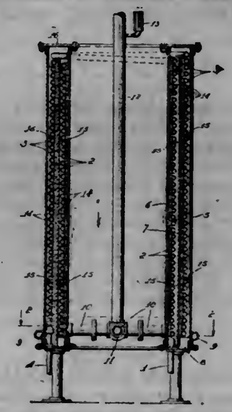
1,922,148
CANNING MACHINE
Charles H. Ayars, Salem, N. J., assignor to Ayars Machine Company, Salem, N. J., a Corporation of New Jersey
Application October 14, 1930. Serial No. 488,575
12 Claims. (Cl. 226—102)

1. A canning machine comprising a tank, a rotating dipper having its perimeter dipping at one arc into the tank and the opposite arc of its perimeter elevated over another part thereof, means to move cans in procession beneath the perimeter of the tank and the upper arc of said dipper, a plurality of funnels each positioned to direct material into an underlying can, and a conduit forming communication between the up-



per arc of said dipper and said funnels, and discharging material from one dipper into a plurality of funnels.

1,922,149
COUNTER-CURRENT COOLER
Arnold W. Baumann, Chicago, Ill.
Application May 14, 1932. Serial No. 611,334
1 Claim. (Cl. 257—229)

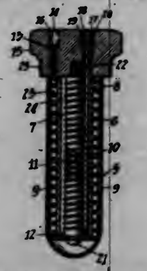


A cooling unit comprising an annular chamber for cooling fluid with a helical coil disposed therein, the walls of the chamber and said coil cooperating to form a helical path for the cooling fluid, the chamber having an inlet for the fluid adjacent one end of the coil and an outlet leading from a point near the opposite end, the inlet for said cooling fluid being arranged to discharge tangentially into the annular chamber for initiating the flow in a circumferential direction.

1,922,150
OIL AND WATER HEATER FOR INTERNAL COMBUSTION ENGINES
John J. Beresh, Los Angeles, Calif.
Application July 29, 1932. Serial No. 625,905
2 Claims. (Cl. 219—38)

1. In an electric heater of the character described, a threaded plug adapted for screwing into a liquid container, an elongated sealed casing secured to said plug, an insulator secured to said plug and extending into said casing, a high volt-

age heating element wound about said insulator, a second insulator surrounding said high voltage heating element, a low voltage heating element



wound about said second insulator, a third insulator surrounding said low voltage element, and terminals for said elements mounted in said plug.

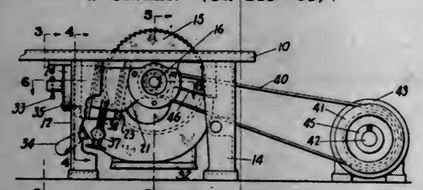
1,922,151

ADJUSTING DEVICE FOR SAW ARBORS

William B. Boice and John E. Boice, Toledo, Ohio

Application July 27, 1931. Serial No. 553,236

2 Claims. (Cl. 143—35)



1. In a woodworking machine, a table, a saw arbor, a mounting for said arbor beneath the table, a slideway in which said mounting is held, a sawdust chute rigidly connected to said slideway, a stud projecting from the chute underneath the slideway, a screw swiveled in the stud and having a threaded connection with said mounting for adjusting the arbor up and down, a support for said slideway, and means for adjusting said support angularly about an axis which is substantially coincident with the line of cut.

1,922,152

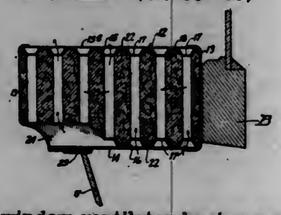
VENTILATOR NOISE DEADENER

George E. Bradbury, Evanston, Ill.

Application November 21, 1931

Serial No. 576,501

4 Claims. (Cl. 98—99)



1. In a window ventilator having an inwardly extending sheet spaced from the window sash to permit air to pass therebetween when the sash is raised, a boxlike structure formed to fill and close the opening between the lower portion of the sash and the upper portion of the ventilator, said structure having spaced perforated walls and being substantially filled with sound deadening material, and narrow passageways extending through said material and communicating with the perforations in said walls.

1,922,153

AMYL CRESOLS AND PREPARATION THEREOF

Walter G. Christiansen, Glen Ridge, and William A. Lott, Newark, N. J., assignors to E. R. Squibb & Sons, New York, N. Y., a Corporation of New York

No Drawing. Application January 15, 1932

Serial No. 586,956

2 Claims. (Cl. 260—154)

1. The method of preparing amyl cresol that comprises condensing a cresol with an amylene at a temperature of not more than about 10° C. in the presence of sulfuric acid.

1,922,154

PROCESS FOR INCREASING THE OUTPUT OF OIL WELLS

Melvin de Groote, St. Louis, Mo., assignor to Tretolite Company, Webster Groves, Mo., a Corporation of Missouri

No Drawing. Application January 9, 1933

Serial No. 650,860

10 Claims. (Cl. 166—21)

1. A process for increasing the output of oil wells, characterized by introducing into a well, a treating medium consisting of an emulsified acid that will pass the metallic parts of the well without having any deleterious effect on same, and upon reaching the calcareous strata at the bottom of the well will break, whereby the acid of the emulsion is permitted to react with said strata.

1,922,155

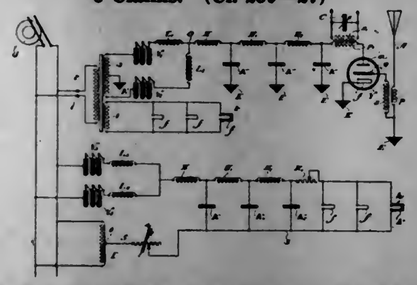
RADIO RECEIVING APPARATUS

Cornelius D. Ehret, Philadelphia, Pa.

Application July 19, 1928, Serial No. 293,951

Renewed March 16, 1933

6 Claims. (Cl. 250—27)



1. Radio receiving apparatus comprising vacuum tube structure of the thermionic type, a source of alternating current, valve structure of the character permitting substantial inverse current for rectifying current from said source for energizing at least one circuit of said vacuum tube structure, and a filter system, the inductive reactance operative in the circuit of the valve structure having a magnitude such that its ratio to the resistance external to the valve structure is high, and the number of valves in series and the impedance of the valve structure being such that the fall of potential across the impedance external to the valve structure is upwards of four times the fall of potential across said valve structure.

1,922,156

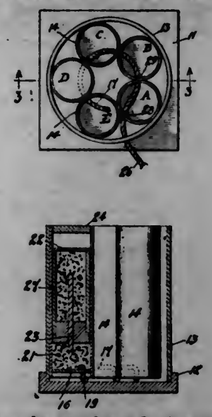
MULTIPLE SHOT AERIAL SALUTE

Achille Fabrizio, Havre de Grace, Md.

Application June 15, 1932. Serial No. 617,296

4 Claims. (Cl. 102—20)

1. A multiple shot aerial salute comprising a housing member, individual barrels in said housing, a bomb in each of said barrels and having its fuse extending downwardly, a fuse in the bottoms of said barrels arranged to successively ignite the



fuse of said bombs, and explosive mixture in the bottoms of said barrels for catapulting said bombs.

1,922,157

METHOD AND MEANS FOR PREVENTING CANNIBALISM AMONG POULTRY

Lewis I. Fox, Metuchen, N. J., assignor to Irvin Kreielsheimer, Perth Amboy, N. J.

No Drawing. Application March 22, 1932

Serial No. 600,565

3 Claims. (Cl. 119—31)

3. The method of preventing cannibalism among chicks, comprising confining the chicks, and while confined, subjecting them to light rays of such wave lengths as will neutralize the red of wounds, blood and like spots.

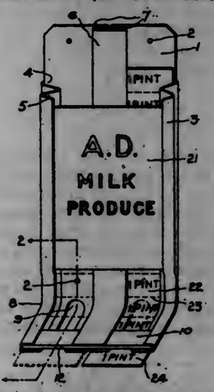
1,922,158

TICKET RACK

Conrad Genjack, North Vancouver, British Columbia, Canada

Application June 27, 1932. Serial No. 619,398

3 Claims. (Cl. 206—40.6)



1. A strip ticket holder comprising a pair of opposed guides spaced apart and adapted to support a strip ticket by its maginal edges, means adjacent one end of the guides against which the strip ticket is adapted to be severed, and means for impeding the free movement of the ticket along the guides.

1,922,159

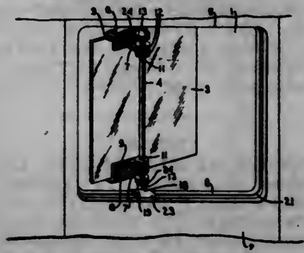
WIND DEFLECTOR FOR VEHICLES

Abraham G. Goldberg, Boston, Mass.

Application November 28, 1930

Serial No. 498,598

3 Claims. (Cl. 296—84)



1. A wind deflector for vehicles in combination with a window frame therefor comprising a rigid vertical support extending between the upper and lower sections of the window frame, a deflector plate, a pair of lateral supporting brackets rigidly secured to said vertical support engaging the upper and lower edges of said plate clamping it therebetween, a pair of thrust plates engaging the upper and lower sections of the window frame, expansion members on the ends of said vertical support adjustable to produce expansive strain upon and having universal connection with said thrust plates whereby said thrust plates will bear with even pressure throughout their area upon the window frame thus firmly retaining the deflector plate in position therein.

1,922,160

PROCESS AT THE SULPHITE CELLULOSE DIGESTION, OF REMOVING TURPENTINE AND OTHER VOLATILE MATTERS PRESENT IN THE CHIPS

Gustaf Haglund, Stockholm, Sweden, assignor to Patentaktiebolaget Grondal - Ramen, Stockholm, Sweden

No Drawing. Application March 25, 1932, Serial No. 601,300, and in Sweden April 15, 1931

8 Claims. (Cl. 92—2)

1. The sulphite cellulose digestion process which comprises, cooking the cellulose-containing material in a digester with a solution of a sulphurous acid salt, providing a suitably elevated temperature in said cooking whereby turpentine, oils, and other volatile organic materials are vaporized, withdrawing said vapors from the digester, adding a solution of sulphur dioxide to the digester, and cooking the cellulose-containing material with the resulting additive solutions.

1,922,161

GARMENT HANGER

Frederick Hille, Los Angeles, Calif.

Application June 10, 1932. Serial No. 616,415

1 Claim. (Cl. 223—67)



A hanger of the character described comprising a wire supporting bar, a supporting hook se-

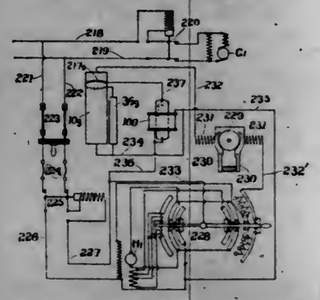
cured to the bar midway of its ends, a pair of tubular members each having an upturned outer end and each provided with a guide slot, said tubular members telescopically engaging the end portions of said supporting bar, and a coil compression spring disposed in each of said tubular members and normally urging them outwardly, and means carried by said supporting bar and engaging the slots formed in the tubular members for limiting the outward movement of said members and preventing a rotation of the same.

1,922,162
EVACUATION OF ELECTRONIC DEVICES
Aden J. King, Syracuse, N. Y., assignor to King Laboratories, Inc., Syracuse, N. Y., a Corporation of New York
Application February 10, 1932. Serial No. 591,967
6 Claims. (Cl. 250—27.5)



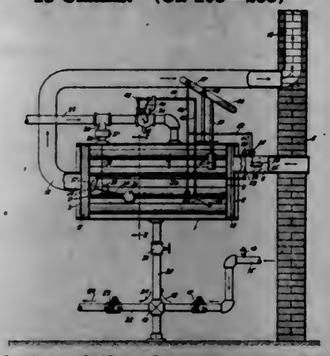
6. The method of producing getter assemblies which comprises reducing getter material to powder, depositing the powder at spaced intervals along a metallic ribbon, pressing the powder into the ribbon so as to form an indentation in each instance in which the powder is pressed into the base thereof, and severing the ribbon between the pressed portions to provide the individual assemblies.

1,922,163
ELECTRIC PROTECTIVE SYSTEM FOR ELEVATORS AND THE LIKE
Lloyd E. King, Berwyn, Ill.
Original application July 23, 1923, Serial No. 653,200. Divided and this application January 9, 1931. Serial No. 507,587
9 Claims. (Cl. 172—152)



1. In a system of the class described, the combination of a supply circuit, a motor connected with said circuit, a brake for said motor, electrical windings for releasing said brake by their energization, a brake circuit extending from said windings, circuit opening devices in said brake circuit, a tripping coil for said circuit opening devices, and a control circuit extending from said tripping coil to said supply circuit and operative for abnormal electrical conditions in said supply circuit, whereby for said abnormal electrical conditions said brake is freed from the action of said releasing windings and prevents rotation of said motor.

1,922,164
BOILER RETURN AND VACUUM TRAP
Stanley C. Knefel, St. Louis, Mo.
Application July 23, 1932. Serial No. 624,173
13 Claims. (Cl. 103—253)



1. A device of the character described comprising a combined condenser and vacuum trap, means for admitting water into said condenser and trap, a pipe for admitting steam into said condenser and trap, tubes extending through said condenser and trap, a valve for opening and closing said pipe, an actuator in said condenser and trap controlled by the water therein for opening and closing said pipe, and means other than said actuator controlling passage of air through said tubes.

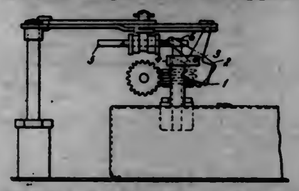
1,922,165
FLOWER PICK
Charles A. Knuutila, Newark, N. J.
Application December 8, 1931. Serial No. 579,698
6 Claims. (Cl. 47—55)



1. A flower pick of the character described formed from an integral metal blank comprising a relatively long stem portion having its one end pointed and provided at and near its opposite end on both sides thereof with a plurality of fingers tapering outwardly from said stem, the said fingers being spaced relatively close to each other, the fingers on one side of the stem being staggered with respect to the fingers on the opposite side of the stem, the points of said fingers being slightly curved.

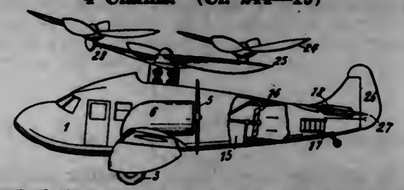
1,922,166
MECHANISM FOR DRY GAS METERS
Gompei Kuwada, Komedani-Mura, Kawabe-Gun, Japan
Application August 26, 1931. Serial No. 559,466
3 Claims. (Cl. 73—1)

1. In a gas meter having a metering mechanism including a revolving tangent-arm, a support, latch means pivoted to said support, said means including two members of similar form but separate and independent of each other and suspended on the same pivot but facing in opposite directions to move independently of each other, the said members each having a finger at one side of the pivot and weighted at the opposite side to



cause the fingers one or the other to project into the path of the tangent-arm, at whatever angle the meter may be inclined to the right, to the left, to the back, or to the front between 0° and 90° to the normal position, to thereby prevent reverse motion of the meter-mechanism in any position of the meter.

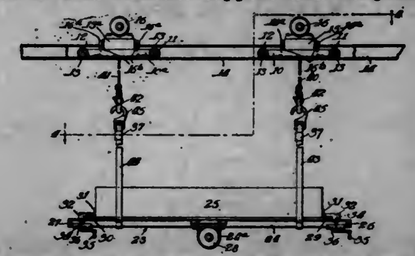
1,922,167
HELICOPLANE AND AIRPLANE
Joseph J. Leray, West Warwick, R. I.
Application February 20, 1933. Serial No. 657,619
4 Claims. (Cl. 244—19)



1. In helicoplanes and airplanes, a wing formed with a series of slots cut in the upper surface thereof, rolling slats, fans installed inside the wing flush with the lower surface thereof and discharging downwardly under the wing and developing an internal suction within the wing, motors substantially mounted on the same wing for driving said fans thru suitable gears and shafts, pusher propellers driven by said motors, relatively large cowls enveloping the motors and communicating interiorly with the wing thru their base and ending past the trailing edge with a circular opening closely adjacent to said pusher propellers driven by the motors enclosed in said cowls, the shutting of the slots shifting the suction from the wing to the propellers environment thru the cowls, said suction increasing the slip of the propellers by retarding and contracting the slipstream behind the propellers, thus effecting a higher thrust or maintaining the same thrust at a higher speed, and the opening of the slots shifting the suction onto the wing to cooperate with the relative wind and indraught of the propellers to develop a vacuum thereon resulting in an increased lift from said wing; also an exhaust fan installed in the rear part of the fuselage, having communication with the wing thru a passage provided along the bottom of said fuselage, the air thrusted by said rear fan being discharged sternwardly at the tail thru registers.

1,922,168
MOLDING APPARATUS
John W. Lowell, Chicago, Ill., assignor to Benedict Stone Products Company, Chicago, Ill., a Corporation of Illinois
Application May 9, 1932. Serial No. 610,238
9 Claims. (Cl. 25—41)

1. In an apparatus for vibration of concrete, the combination of an electric motor provided with an unbalancing weight adapted to be rotated by the motor shaft, a resilient support for said motor, clamping members carried by the opposite ends of said resilient support and adapted to



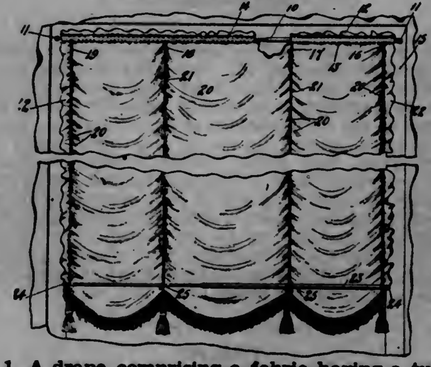
clamp a concrete form, and flexible means for suspending said concrete form, motor and support whereby said motor is adapted to place said concrete form in a state of high frequency vibration.

1,922,169
TOWEL
Bethine A. Martin, New York, N. Y.
Application November 17, 1931
Serial No. 575,679
4 Claims. (Cl. 28—1)



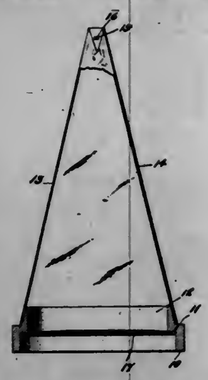
1. The combination of a towel, a cord embedded in and enclosed by the fabric of the towel and projecting beyond each end of the towel to form handles.

1,922,170
DRAPERY
Frank McGarry, Philadelphia, Pa.
Application December 30, 1932
Serial No. 649,474
4 Claims. (Cl. 156—21)



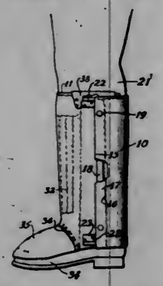
1. A drape comprising a fabric having a tube formed in its upper parts adapted to receive a telescoping rod inserted therethrough, a telescoping rod secured adjacent to the bottom part and adjustable relative to the adjustment of the upper telescoping rod, gather lines extending downwardly from the top to the bottom and permanently secured to the fabric-forming panels, and manually movable means clamping the panel-forming parts to the lower rod.

1,922,171
CONTAINER
Charles McMahon, Philadelphia, Pa.
Application May 12, 1932. Serial No. 610,770
8 Claims. (Cl. 229—1.5)



4. A container comprising a ring having internal and external rabbets, a container body seated in one rabbet, and a closure seated in another rabbet.

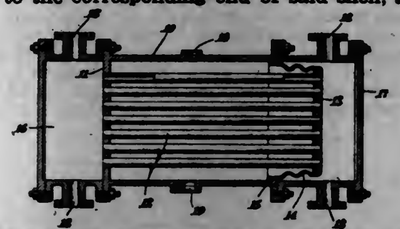
1,922,172
LEGGING PROTECTOR
Harold C. Nilsen, Chicago, Ill.
Application June 22, 1932. Serial No. 618,648
4 Claims. (Cl. 36—2)



1. In a legging, the combination with a sheet of flexible material for encircling the leg of a wearer with one vertical edge portion overlapping the opposite edge portion of metallic plates secured to the outer surface of the underlying edge portions adjacent the upper and lower edges of said sheet, said plates having troughs opening towards each other, a flexibly resilient metal bar secured to the outer one of said overlapped edge portion for extension vertically in engagement with said troughs to secure the sheet in place around the leg of the user, and means in said trough for limiting the extent of displacement of said bar along said trough.

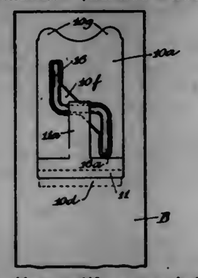
1,922,173
HEAT EXCHANGE DEVICE
Olaf S. Pedersen, East Orange, N. J.
Application October 28, 1932. Serial No. 639,949
6 Claims. (Cl. 257—236)

1. A heat exchange device comprising a tubular shell, a plurality of tubes extending longitudinally of the shell, a fixed tube head closing one end of the shell, a floating tube head, a flexible cylindrical apron permanently joined to the floating head and to the corresponding end of said shell, and



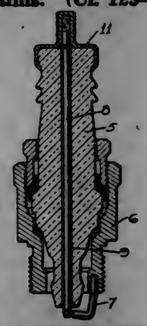
headers connected to the ends of said shell and communicating with said tubes.

1,922,174
SIFTING AND MATERIAL DIRECTING DEVICE FOR CONTAINERS
John V. Pidgeon, Minneapolis, Minn., assignor to Pillsbury Flour Mills Company, Minneapolis, Minn., a Corporation of Minnesota
Application November 4, 1931. Serial No. 572,943
11 Claims. (Cl. 209—283)



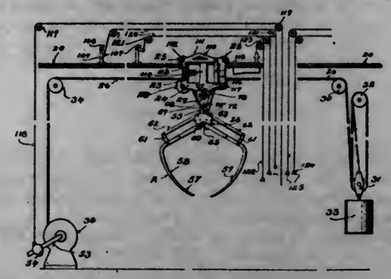
1. In combination with a container provided with an apertured wall, a directing spout telescopically mounted within said apertured portion of the container, a sieve traversing said spout and an agitator mounted within said spout and movable in close proximity to said sieve, said spout lying substantially flush against said apertured wall when telescoped to closed position.

1,922,175
SPARK PLUG
Otto C. Rohde, Toledo, Ohio, assignor to Champion Spark Plug Company, Toledo, Ohio, a Corporation of Delaware
Application February 25, 1932. Serial No. 595,093
4 Claims. (Cl. 123—169)



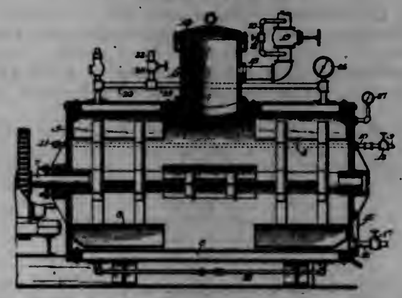
1. A spark plug comprising a core of ceramic insulating material, a thin sleeve of pliable metal in the inner end of said core, and an electrode extending longitudinally through said sleeve and from end to end of the core, portions of said electrode being cemented to the core and the sleeve respectively.

1,922,176
AUTOMATIC HAY UNLOADER
Joseph Ruhland, Plain, Wis.
Application May 9, 1932. Serial No. 610,947
5 Claims. (Cl. 212—93)



1. In a combined hoist and conveyor, a supporting track, a carriage mounted on the track for traveling movement, a load supporting member including a pair of pivoted jaws, releasable means for holding the jaws in a closed position including a sliding release and lock head, a bell crank lever rockably mounted at its angle having one of its arms connected with the release and lock head, a pivoted shoe connected with the carriage, an actuating lever operatively connected with the shoe for actuating the bell crank, and a trip connected with the track movable into and out of the path of the shoe.

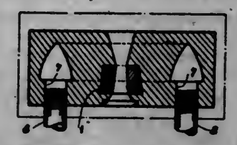
1,922,177
METHOD OF COOKING AND DRYING EGGSHELLS
Carl O. Ryde, Oak Park, Ill.
Application November 14, 1929
Serial No. 407,299
6 Claims. (Cl. 99—5)



1. The herein described method of treating egg shells having a residue of albumen in its original condition remaining thereon, which consists in subjecting the same in a closed vessel to steam of approximately thirty-seven pounds per square inch pressure for about twenty-five minutes to coagulate the albumen and then turning off the steam and opening the vessel and subjecting the material to a drying heat until sufficiently dried.

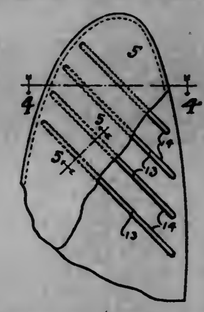
1,922,178
METAL-WORKING IMPLEMENT
William J. Schultz, Glassport, Pa., assignor to Firth-Sterling Steel Company, a Corporation of Pennsylvania
Application January 27, 1932. Serial No. 589,169
4 Claims. (Cl. 205—26)

1. A metal-working implement comprising a carbide metal block having a supporting body of



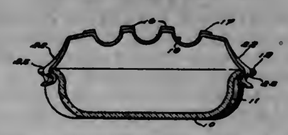
modified iron cast and autogenously welded upon its surface.

1,922,179
PROPELLER
John Squires, Detroit, Mich.
Application February 15, 1929. Serial No. 340,858
5 Claims. (Cl. 170—159)



1. A hollow metal airplane propeller blade depending primarily upon the shell thereof for resisting centrifugal and torsional stresses, the interior of said blade adjacent the tip being provided with braces extending at an angle to both the length and width of said blade, for aiding said blade in resisting tip flutter.

1,922,180
ASH TRAY
John Squires, Hagerstown, Md.
Application September 14, 1931
Serial No. 562,717
7 Claims. (Cl. 131—51)

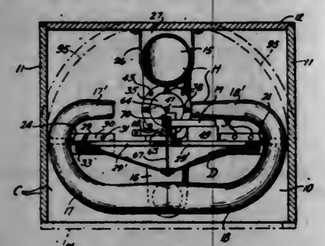


7. An ash tray comprising spaced strips of resilient sheet material, terminating at their ends in diverging portions having ends terminating in double, reversely bent portions adapting the assembled strips to be fastened on containers having inwardly or outwardly flared walls at spaced points at each end of the strips, and means connecting the strips at spaced points.

1,922,181
LOUD SPEAKER
Adolph A. Thomas, New York, N. Y.
Application June 30, 1926. Serial No. 119,575
23 Claims. (Cl. 181—31)

1. A loudspeaker comprising a horn having curved portions arranged to provide a sound passage of requisite length in a comparatively small space, a cone diaphragm mounted outside of said horn in a space between the curved portions of

said horn, a diaphragm connected with the inner



end of said horn, and mechanism for operating both diaphragms.

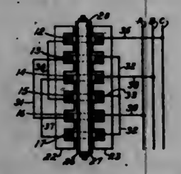
1,922,182

REGULATING APPARATUS

Charles F. Wagner, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania

Application October 30, 1931. Serial No. 572,066

9 Claims. (Cl. 171—119)



1. In combination, a polyphase electrical circuit, a regulator therefor comprising means responsive to a potential that is representative of the voltages acting in all of the phases of said circuit, said means comprising a conducting member, a plurality of windings so disposed about said member and energized by the voltages acting in the several phases of said circuit that a magnetic field continuously traverses the member in one longitudinal direction to exert a unidirectional force thereupon.

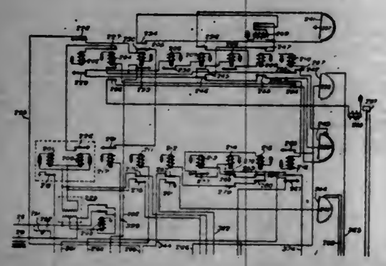
1,922,183

SUPERVISORY CONTROL SYSTEM

Roy J. Wensley, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania

Application August 14, 1926. Serial No. 129,166

4 Claims. (Cl. 179—78)



1. A communication system comprising transmission line conductors, a translating device relatively connected thereto, a winding extending between the transmission line conductors and having a neutral point connected to ground thus providing a path for draining extraneous current in the said communication system to ground, and an electromagnetic means serially connected in the said path and adapted to operate automatically suitably arranged contacts for connecting to ground, both extremities of the said winding having a neutral point, when extraneous current in the communication system exceeds a predetermined degree and for disconnecting both extremities of the said winding from ground when the extraneous current subsides.

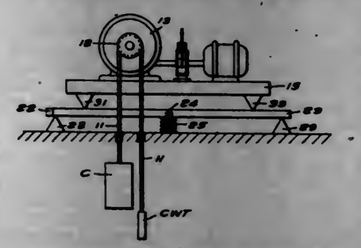
1,922,184

SOUNDPROOF BASE FOR MACHINES

Kenneth M. White, Lombard, Ill., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania

Application October 3, 1931. Serial No. 566,594

3 Claims. (Cl. 248—16)



2. In combination, a machine-supporting base, a single vibration-absorbing means, and a system of levers for supporting the base at a plurality of points and cooperating with said vibration-absorbing means to apply a portion of the weight from each point to the vibration-absorbing means.

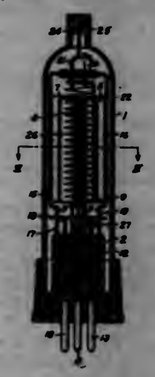
1,922,185

PHOTO-TUBE

Earl D. Wilson, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania

Application July 5, 1929. Serial No. 376,115

2 Claims. (Cl. 250—27.5)



1. A photo-tube comprising a plurality of concentric electrodes, photo-electric material on one end of said electrodes, a press at one end of said tube, supports extending from said press for said electrodes, a second press at the opposite end of said tube, a control grid, and a support extending from said second press for said grid, said last mentioned support also insulatingly supporting the one of said electrodes having photo-electric material thereon.

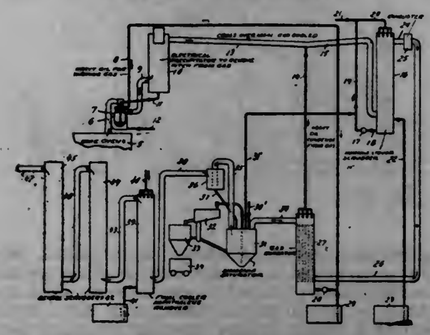
1,922,186

MANUFACTURE OF DIRECT AMMONIUM SULPHATE

William B. Wingert, Detroit, Mich., assignor to Semet-Solvay Company, New York, N. Y., a Corporation of New York

Application January 24, 1929. Serial No. 334,752

2 Claims. (Cl. 23—196)



1. The process for the recovery of free and fixed ammonia from coal distillation gases which comprises (1) washing the hot gases with heavy oil to remove pitch and heavy oil therefrom; (2) thereafter recirculating aqueous liquor in contact with the pitch and heavy oil-free gas to remove fixed ammonia therefrom; (3) passing the fixed ammonia-, pitch- and heavy oil-free gas through sulphuric acid; and (4) withdrawing excess aqueous liquor containing fixed ammonia from step (2) and introducing it into the sulpluric acid employed in step (3).

1,922,187

PROCESS FOR THE PURIFICATION OF AIR

Walter Zisch, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, a Corporation of Delaware

No Drawing. Application April 20, 1929, Serial No. 356,892, and in Germany April 21, 1928

3 Claims. (Cl. 23—4)

1. In a method for renewing exhaled air, the step which comprises bringing said air into contact with a mixture of an alkali metal trioxide and an alkali metal hydroxide.

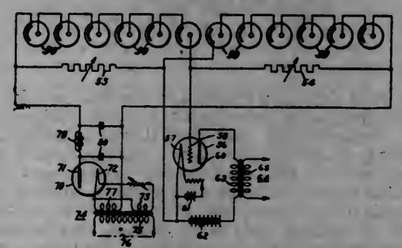
1,922,188

INSPECTION DEVICE

Vladimir K. Zworykin, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania

Application June 16, 1927. Serial No. 199,392

11 Claims. (Cl. 209—111)



1. In an article-sorting device, a plurality of photo-sensitive cells in series, a source of light, means for causing articles to reflect said light to said photo cells, unitary amplifying means responsive to a variation in the illumination of any one of said cells to cause said articles to follow a predetermined path and means for causing said articles to follow another path when there is no variation in the illumination of said cells.

1,922,189

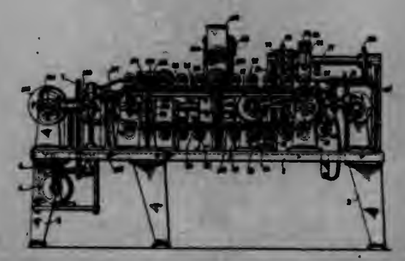
APPARATUS FOR MAKING PAPER CONTAINERS

Edward C. Angell, New York, N. Y.

Application November 10, 1928

Serial No. 318,325

10 Claims. (Cl. 93—39)



1. In a container forming machine, the combination with a mandrel and means for wrapping a blank around the mandrel and securing the lapped margins to form a body, of a carrier to receive such a body and advance it to a series of stations, the carrier comprising a pair of endless chains, guide sprockets by which the chains are intermittently advanced, a series of plates extending across the chains and secured thereto, a series of carrier forms of substantially cylindrical shape, a bracket mounted on each said plate and fast to one end of each said form whereby the forms are carried by the chains with the axis transverse to the path of movement of the chain, and which forms are free at one end to receive the body, said chain carrier being intermittently advanced to bring the said carrier forms successively opposite said mandrel, a stripper connected with said mandrel arranged to advance the body from the mandrel to the said form on the chains, a flanged bottom forming means at an advanced station in the travel of the chain forms arranged to insert a bottom in the body on the form, and means at a further advanced station to eject the finished body from the form.

1,922,190

VALVE

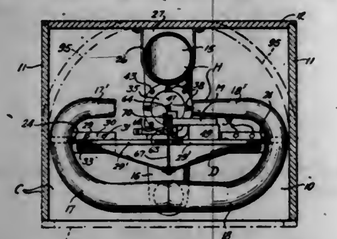
Niles Atterbury, Pittsburgh, Pa.

Application September 4, 1931. Serial No. 561,200

1 Claim. (Cl. 251—62)

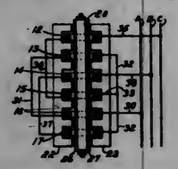
In combination, a valve comprising a casing providing a valve chamber, a bonnet secured to the top of said casing and having its lower end formed to provide a recess opening into and complemental to said valve chamber, the upper portion of said bonnet being provided with a chamber having a threaded bottom aperture communicating with said valve chamber, a valve member mounted in the latter, a seating head secured to the top of said bonnet and provided with a bearing bore having straight end portions and a cone-shaped intermediate portion, a seating stem having its lower end portion shaped to conform to said bearing bore and being revolubly seated in

said horn, a diaphragm connected with the inner



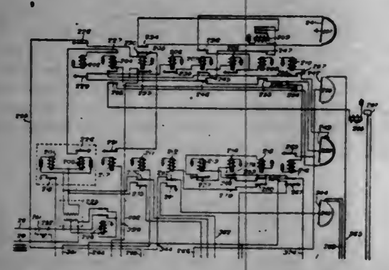
end of said horn, and mechanism for operating both diaphragms.

1,922,182
REGULATING APPARATUS
Charles F. Wagner, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application October 30, 1931. Serial No. 572,066
9 Claims. (Cl. 171—119)



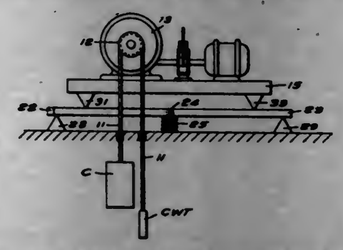
1. In combination, a polyphase electrical circuit, a regulator therefor comprising means responsive to a potential that is representative of the voltages acting in all of the phases of said circuit, said means comprising a conducting member, a plurality of windings so disposed about said member and energized by the voltages acting in the several phases of said circuit that a magnetic field continuously traverses the member in one longitudinal direction to exert a unidirectional force thereupon.

1,922,183
SUPERVISORY CONTROL SYSTEM
Roy J. Wensley, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application August 14, 1926. Serial No. 129,166
4 Claims. (Cl. 179—78)



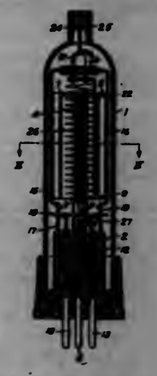
1. A communication system comprising transmission line conductors, a translating device relatively connected thereto, a winding extending between the transmission line conductors and having a neutral point connected to ground thus providing a path for draining extraneous current in the said communication system to ground, and an electromagnetic means serially connected in the said path and adapted to operate automatically suitably arranged contacts for connecting to ground, both extremities of the said winding having a neutral point, when extraneous current in the communication system exceeds a predetermined degree and for disconnecting both extremities of the said winding from ground when the extraneous current subsides.

1,922,184
SOUNDPROOF BASE FOR MACHINES
Kenneth M. White, Lombard, Ill., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application October 3, 1931. Serial No. 566,594
3 Claims. (Cl. 248—16)



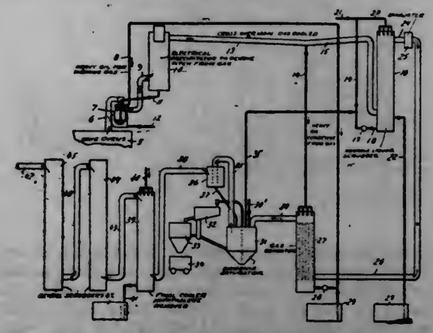
2. In combination, a machine-supporting base, a single vibration-absorbing means, and a system of levers for supporting the base at a plurality of points and cooperating with said vibration-absorbing means to apply a portion of the weight from each point to the vibration-absorbing means.

1,922,185
PHOTO-TUBE
Earl D. Wilson, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application July 5, 1929. Serial No. 376,115
2 Claims. (Cl. 250—27.5)



1. A photo-tube comprising a plurality of concentric electrodes, photo-electric material on one end of said electrodes, a press at one end of said tube, supports extending from said press for said electrodes, a second press at the opposite end of said tube, a control grid, and a support extending from said second press for said grid, said last mentioned support also insulatingly supporting the one of said electrodes having photo-electric material thereon.

1,922,186
MANUFACTURE OF DIRECT AMMONIUM SULPHATE
William B. Wingert, Detroit, Mich., assignor to Semet-Solvay Company, New York, N. Y., a Corporation of New York
Application January 24, 1929. Serial No. 334,752
2 Claims. (Cl. 23—196)

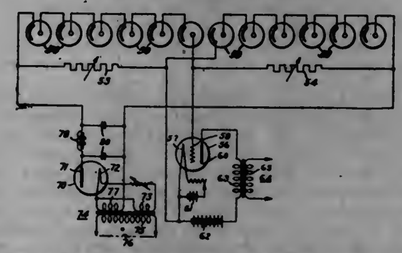


1. The process for the recovery of free and fixed ammonia from coal distillation gases which comprises (1) washing the hot gases with heavy oil to remove pitch and heavy oil therefrom; (2) thereafter recirculating aqueous liquor in contact with the pitch and heavy oil-free gas to remove fixed ammonia therefrom; (3) passing the fixed ammonia-, pitch- and heavy oil-free gas through sulphuric acid; and (4) withdrawing excess aqueous liquor containing fixed ammonia from step (2) and introducing it into the sulpluric acid employed in step (3).

1,922,187
PROCESS FOR THE PURIFICATION OF AIR
Walter Zisch, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, a Corporation of Delaware
No Drawing. Application April 20, 1929, Serial No. 356,892, and in Germany April 21, 1928
3 Claims. (Cl. 23—4)

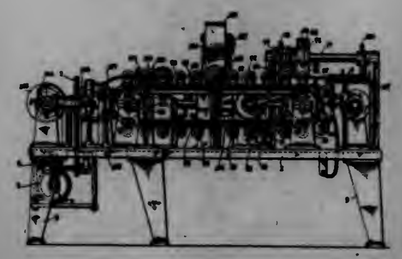
1. In a method for renewing exhaled air, the step which comprises bringing said air into contact with a mixture of an alkali metal trioxide and an alkali metal hydroxide.

1,922,188
INSPECTION DEVICE
Vladimir K. Zworykin, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application June 16, 1927. Serial No. 199,392
11 Claims. (Cl. 209—111)



1. In an article-sorting device, a plurality of photo-sensitive cells in series, a source of light, means for causing articles to reflect said light to said photo cells, unitary amplifying means responsive to a variation in the illumination of any one of said cells to cause said articles to follow a predetermined path and means for causing said articles to follow another path when there is no variation in the illumination of said cells.

1,922,189
APPARATUS FOR MAKING PAPER CONTAINERS
Edward C. Angell, New York, N. Y.
Application November 10, 1928
Serial No. 318,325
10 Claims. (Cl. 93—39)

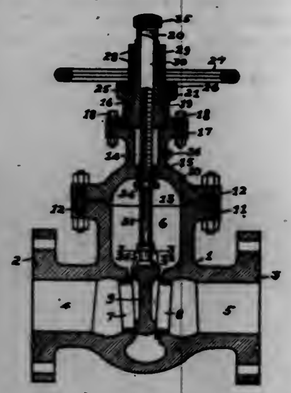


1. In a container forming machine, the combination with a mandrel and means for wrapping a blank around the mandrel and securing the lapped margins to form a body, of a carrier to receive such a body and advance it to a series of stations, the carrier comprising a pair of endless chains, guide sprockets by which the chains are intermittently advanced, a series of plates extending across the chains and secured thereto, a series of carrier forms of substantially cylindrical shape, a bracket mounted on each said plate and fast to one end of each said form whereby the forms are carried by the chains with the axis transverse to the path of movement of the chain, and which forms are free at one end to receive the body, said chain carrier being intermittently advanced to bring the said carrier forms successively opposite said mandrel, a stripper connected with said mandrel arranged to advance the body from the mandrel to the said form on the chains, a flanged bottom forming means at an advanced station in the travel of the chain forms arranged to insert a bottom in the body on the form, and means at a further advanced station to eject the finished body from the form.

1,922,190
VALVE
Niles Atterbury, Pittsburgh, Pa.
Application September 4, 1931. Serial No. 561,200
1 Claim. (Cl. 251—62)

In combination, a valve comprising a casing providing a valve chamber, a bonnet secured to the top of said casing and having its lower end formed to provide a recess opening into and complemental to said valve chamber, the upper portion of said bonnet being provided with a chamber having a threaded bottom aperture communicating with said valve chamber, a valve member mounted in the latter, a seating head secured to the top of said bonnet and provided with a bearing bore having straight end portions and a cone-shaped intermediate portion, a seating stem having its lower end portion shaped to conform to said bearing bore and being revolubly seated in

the latter, said seating stem provided with a bore having an open top and a threaded lower end portion, an operating screw having its lower end revolubly joined with said valve member, said operating screw extending through said bonnet chamber and having a threaded upper portion threadedly engaged in the threaded lower end portion of said seating stem bore, an operating element carried by said seating stem for rotating the latter to actuate said operating screw for shifting said valve member to the opening or



closing positions, means carried by said seating stem for adjusting the latter in the bearing bore of said seating head, a guide sleeve for the passage of said operating screw, said guide sleeve being constructed from compressible material and having an adjustable threaded engagement in the bottom aperture of said bonnet bore, a removable closure cap mounted on the top of said seating stem, and a drain plug carried by said bonnet to permit the draining of said bonnet chamber, substantially as described and for the purpose set forth.

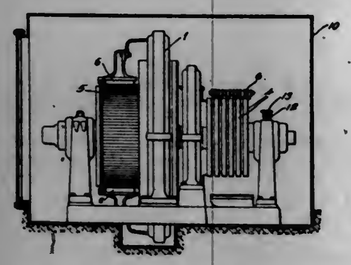
1,922,191

METHOD AND APPARATUS FOR REDUCING THE CONTACT DROP BETWEEN CURRENT-CARRYING CONTENTS

Robert M. Baker and Lloyd Smede, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania

Application December 1, 1931. Serial No. 578,330

7 Claims. (Cl. 171—323)



1. A method of producing a low contact drop between a brass contact member and a carbon contact member which comprises maintaining an inert gas about the contact members and supplying a small quantity of mercury vapor to the contact members.

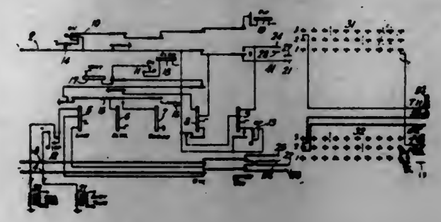
1,922,192

TELEPHONE SYSTEM

John I. Bellamy, Brookfield, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a Corporation of Delaware

Application January 8, 1932. Serial No. 585,545

14 Claims. (Cl. 179—18)



1. In combination, a selector having bank contact sets arranged in groups, each group normally corresponding to a separate digit designation, the contacts in one of said groups being divided between two trunk groups bearing different digit designations, means for bringing said selector into association with said contact group as a result of control being exercised over the selector in accordance with either of said digit designations, means thereupon effective for starting said selector searching over the contact sets in said groups successively, said selector having two test wipers arranged to cooperate differently with the test contacts of said contact groups, and means including said two test wipers and automatically effective dependent upon the digit in accordance with which the selector receives its control for preventing the selector from making connection with any trunk line of one group and for permitting the selector to make connection with any idle trunk line in the other group.

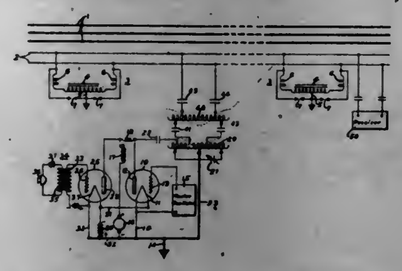
1,922,193

SIGNAL TRANSMISSION SYSTEM

Clarence A. Boddie, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania

Application July 30, 1927. Serial No. 209,408

7 Claims. (Cl. 179—2.5)



7. In a signaling system, an oscillation generator having an output-circuit, a circuit resonant to the frequency of the oscillations generated, a guiding channel, means for coupling said resonant circuit and said output circuit, and connecting means between said guiding channel and a point on said resonant circuit that is substantially a voltage node with respect to a predominant harmonic of the oscillation-frequency, said connecting means comprising devices for impeding the passage of direct current.

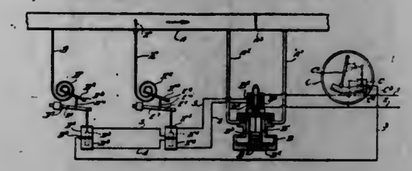
1,922,194

MEASURING APPARATUS

Richard P. Brown, Philadelphia, and Thomas R. Harrison, Wyncote, Pa., assignors to The Brown Instrument Company, Philadelphia, Pa., a Corporation

Application April 22, 1927. Serial No. 185,766

6 Claims. (Cl. 177—351)



6. A flow meter having means for creating a pressure differential varying according to flow, a device mechanically responsive to the pressure differential, a magnetic armature moved by said device, an instrument having a second magnetic armature, a mechanism responsive to a condition causing variation in the fluid density, a third magnetic armature movable by said mechanism, a pair of inductance coils associated with each armature so that movement of the armature relative to its pair of inductance coils increases the inductance of one coil and decreases the inductance of the other coil, a source of variable electric energy, and electrical connections joining the source and the inductance coils into an inductance bridge.

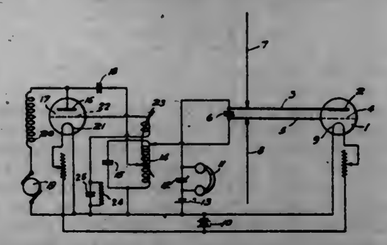
1,922,195

HIGH FREQUENCY ELECTRICAL APPARATUS

Walter John Brown, Brooklands, England, assignor to Associated Electrical Industries Limited, a Company of Great Britain

Application July 11, 1928, Serial No. 291,977, and in Great Britain July 11, 1927

4 Claims. (Cl. 250—20)



1. Apparatus for use in connection with the utilization of alternating currents at very high frequencies comprising a thermionic device having an electron-emitting electrode, an anode and a control-electrode, an oscillatory circuit comprising a plurality of conductors having uniformly distributed capacity and inductance and extending from said anode and one of said electrodes, respectively, an oscillation generator tuned to a frequency materially lower than the frequency of said oscillatory circuit, and means for impressing upon said control-electrode alternating potentials derived from said oscillation generator, whereby said device is capable of functioning as a radio-receiver of the super-regenerative type.

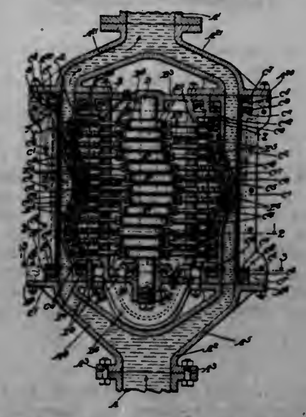
1,922,196

PUMP

Robert S. Butler, Los Angeles, Calif., assignor to Nordberg Manufacturing Co., Milwaukee, Wis., a Corporation of Wisconsin

Application March 17, 1932. Serial No. 599,487

16 Claims. (Cl. 103—148)



1. In a pump, a pair of flexible walled chambers, and means for maintaining a uni-directional wave-like movement of approach and recession of opposed chamber walls simultaneously along both chambers, with the crests of the waves moving longitudinally along said chambers in staggered relationship.

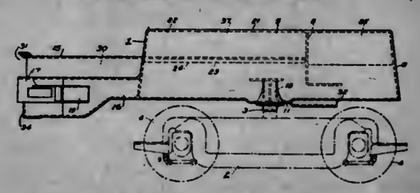
1,922,197

VEHICLE SUBSTRUCTURE

Alan Ernest Leofric Chorlton, London, England

Application August 30, 1928. Serial No. 302,934

6 Claims. (Cl. 105—35)



1. An under-bed for a Diesel-electric generating set that comprises an integral casting for supporting an engine and a generator, said casting being provided with a pair of tanks for fuel and water that constitute the sides of a sump for the engine and a compartment for the generator.

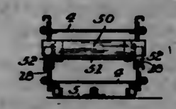
1,922,198

CONVEYER

George M. Crawford, Ingomar, and Jacob M. London, Butler, Pa.

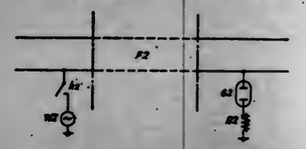
Application April 26, 1928. Serial No. 272,905

11 Claims. (Cl. 198—220)



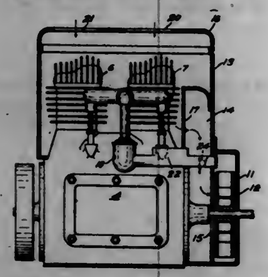
11. The combination with a conveyer trough having flanged side walls, of a car adapted to traverse said conveyer, having flanged wheels for riding on said walls.

1,922,199
TELEPHONE SYSTEM
Artur Flad, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk Siemensstadt near Berlin, Germany
Application January 7, 1932, Serial No. 585,254, and in Germany February 21, 1931
7 Claims. (Cl. 179—16)



1. In a telephone system, a trunk line including two conductors, a glow lamp, a relay connected to one of said conductors at one end of the trunk line in series with said lamp, a source of high potential alternating current, and means for connecting said current source to said one conductor at the other end of the trunk line to cause said lamp to flash over and operate said relay.

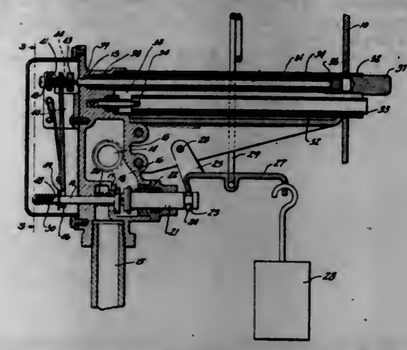
1,922,200
AIR COOLED COMBUSTION ENGINE
Leo C. Frank, McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application September 15, 1931
Serial No. 562,886
2 Claims. (Cl. 123—171)



2. In combination, an internal combustion engine, a fan driven by said engine for motivating a cooling medium, an enclosure for said fan having an inlet and an outlet, a lagging for directing said cooling medium to contact a portion of said engine, said lagging being in communication with said fan inlet, a carburetor for said engine, and means for effecting communication of the carburetor with said fan enclosure.

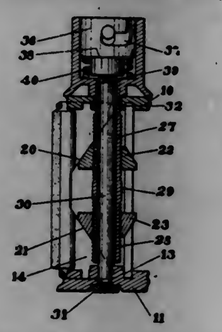
1,922,201
PILOT AND BURNER CONTROL APPARATUS
Frank A. Gauger, Roy W. Johnson, and Arthur Neuser, Milwaukee, Wis., assignors, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a Corporation of Delaware
Original application May 29, 1925, Serial No. 33,698. Divided and this application July 18, 1927. Serial No. 206,725
14 Claims. (Cl. 158—117.1)

1. In combination with a gas appliance having a main burner therein; a gas supply leading to said main burner; a valve controlling said gas supply; time control apparatus for controlling said gas valve; a pilot burner arranged adjacent said main burner; and means whereby failure of said pilot burner will also close said gas valve and maintain the valve closed upon extinguishment of the pilot burner, said time



controlled apparatus being rendered inoperative to open the valve when the pilot burner is extinguished.

1,922,202
CYLINDER WORKING TOOL
Ernest A. Hall and William E. Heuer, Toledo, Ohio, assignors to The Hall Manufacturing Company, Toledo, Ohio, a Corporation of Ohio
Application February 25, 1932. Serial No. 595,140
7 Claims. (Cl. 51—184.3)

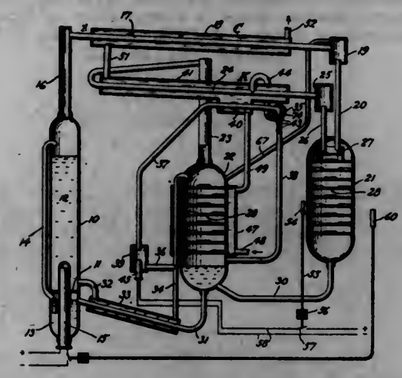


1. A cylinder working tool comprising a mounting, a plurality of tool carriers guided for radial movements in said mounting, oppositely tapered surfaces on said carriers respectively, a pair of members having tapered surfaces corresponding respectively to and engaging the surfaces on said carriers, a supporting sleeve for said members, means for mounting said sleeve to afford limited endwise movements thereof, a pair of oppositely screw-threaded portions on said sleeve with which said members engage respectively, and means for turning said sleeve for moving said members toward or away from each other.

1,922,203
REFRIGERATION
William Theodore Hedlund, Mount Vernon, N. Y., assignor to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware
Application April 13, 1928. Serial No. 269,835
22 Claims. (Cl. 62—119.5)

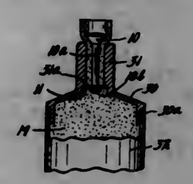
1. Refrigerating apparatus comprising a generator, a condenser, an evaporator, an absorber, means for circulating absorption liquid between

the generator and the absorber and means for circulating absorption liquid into contact with



gas entrained in the condenser and thence to the absorber.

1,922,204
CLOSURE FOR COLLAPSIBLE TUBES
Carl W. Johnson, Minneapolis, Minn.
Application November 6, 1931. Serial No. 573,322
4 Claims. (Cl. 221—60)



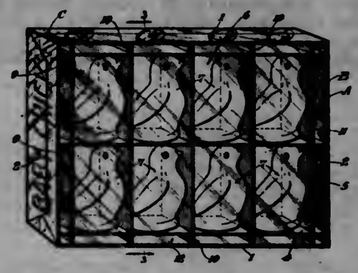
1. In combination with a receptacle having a neck provided with a longitudinal discharge passage, a valve seat at the outer end of said neck, a valve mounted axially and externally of said seat, said valve having a stem extending longitudinally of said discharge passage, said stem being constructed of elastic material and means within said neck for anchoring the inner end of said stem to normally hold said valve against its seat.

1,922,205
2-CARBOXY-5-AMINO DIPHENYL
William S. Jones and William Braker, Brooklyn, N. Y., assignors to E. R. Squibb & Sons, Brooklyn, N. Y., a Corporation of New York
No Drawing. Application January 26, 1932
Serial No. 589,039
1 Claim. (Cl. 260—109)
The compound, 2-carboxy-5-amino diphenyl.

1,922,206
2-CARBOXY-5-NITRO DIPHENYL
William S. Jones and William Braker, Brooklyn, N. Y., assignors to E. R. Squibb & Sons, Brooklyn, N. Y., a Corporation of New York
No Drawing. Application February 15, 1932
Serial No. 593,191
1 Claim. (Cl. 260—108)
2-carboxy-5-nitro diphenyl.

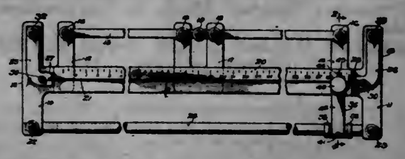
1,922,207
2-CYANO-5-NITRO DIPHENYL
William S. Jones and William Braker, Brooklyn, N. Y., assignors to E. R. Squibb & Sons, Brooklyn, N. Y., a Corporation of New York
No Drawing. Application February 15, 1932
Serial No. 593,192
1 Claim. (Cl. 260—108)
2-cyano-5-nitro diphenyl.

1,922,208
PACKAGE
Maxwell Knorpp, Long Island City, N. Y., assignor to Knorpp Candy Company, Brooklyn, N. Y., a Corporation of New York
Application October 30, 1931. Serial No. 572,021
2 Claims. (Cl. 206—44)



1. A display package comprising a frame open on two opposite sides, a partition member comprising a plurality of compartments open on correspondingly opposite sides, means carried by said partition member for spacing the compartments adjacent said frame from said frame to provide shock absorbing spaces between the frame and the compartments, and a transparent wrapper forming a complete covering for said package whereby merchandise in said compartments is substantially completely visible.

1,922,209
WHEATSTONE BRIDGE
Reinhold A. Kopp, Chicago, Ill., assignor to W. M. Welch Mfg. Co., Chicago, Ill., a Corporation of Illinois
Application February 20, 1929. Serial No. 341,529
3 Claims. (Cl. 201—62)

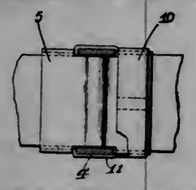


1. A base for a Wheatstone bridge of the slide wire type, and comprising end members of a generally U-shaped configuration in cross section and of highly insulatory material, said end members having a top plane surface simulating the configuration of the small letter h, in combination with a plurality of parallel members, intermediate said end members, said parallel members including a metal conductor, a graduated stick of selected length, a high resistance wire over such graduated stick, and a conductor of tubular form, there being a key on said tubular conductor and slidable there along.

3. A contact key for use on a rod in a slide wire device adapted to form a part of a Wheat-

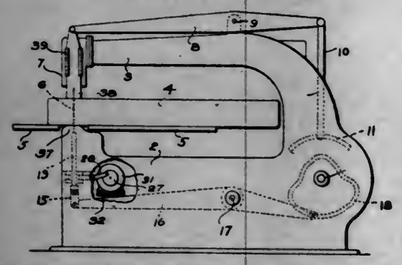
stone bridge, or resistance wire measuring instrumentality, and comprising a graduated stick and a resistance wire stretched thereon, said key being mounted upon said slide rod and comprising a strip of spring metal bent near its middle to loosely surround said rod to be supported thereby, the ends of said strip forming legs, the lower of said legs resting normally upon said graduated stick, and the other leg being at an acute angle to the lower leg, force upon the upper leg decreasing the angle between said legs, to cause the main body of said strip to grip said rod firmly.

1,922,210
SPRING COVER
Ernst Kuechle, Milwaukee, Wis., assignor, by mesne assignments, to I-X-L Metal Spring Cover Company, Milwaukee, Wis., a Corporation of Wisconsin
Application May 13, 1929. Serial No. 362,769
2 Claims. (Cl. 267—37)



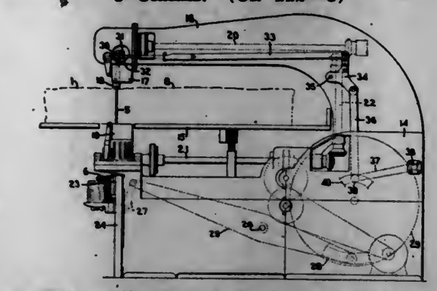
1. In combination with a vehicle spring, a clip embracing the spring, and a clip cover comprising a top plate having an up-struck transversely extending centrally disposed clip bolt receiving bead, depending spaced arms formed on the sides of the top plate for contacting with the opposite sides of the vehicle spring and the opposite edges of the sides of the clip, inturned extensions formed on the lower ends of the arms contacting with the bottom of the vehicle spring and the opposite sides of the bottom of the clip, and a sleeve for receiving a portion of said cover having laterally projecting resilient arms engaging over the opposite sides of the clip between the arms of the cover.

1,922,211
MATTRESS TUFTING MACHINE
Wilfred B. Mathewson, South Weymouth, Mass., assignor to United Mattress Machinery Company, Boston, Mass., a Corporation of Maine
Application October 1, 1931. Serial No. 566,219
5 Claims. (Cl. 112—3)



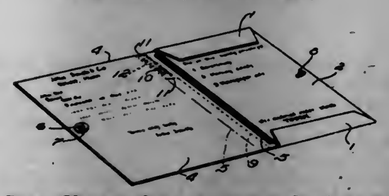
1. In a mattress tufting machine, the combination with a tufting needle having a non-axial point, of means to give the needle a penetrating thrust through the mattress, and means to turn the needle about its axis during such thrust.

1,922,212
METHOD OF TUFTING MATTRESSES
Wilfred B. Mathewson, North Weymouth, Mass., assignor to United Mattress Machinery Company, Boston, Mass., a Corporation of Maine
Application October 9, 1931. Serial No. 567,762
3 Claims. (Cl. 112—3)



1. The method of tufting mattresses which consists in mechanically inserting a threaded needle through the mattress while the latter is uncompressed thereby to carry a tufting cord through the mattress, tying a tuft to the end of the cord which has been thus carried through the mattress, withdrawing the needle from the mattress and simultaneously compressing the mattress at the point where the tuft is being made, and while the mattress still remains compressed forming a second tufting knot in said cord on the opposite side of the mattress from that on which the first knot was made.

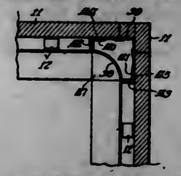
1,922,213
FILE ENVELOPE
Claude R. Middleton, Detroit, Mich.
Application December 29, 1931
Serial No. 583,638
5 Claims. (Cl. 129—16.7)



5. In a file envelope, a paper sheet arranged to provide a rectangular pocket and having a portion extending from one side of the rectangular pocket, the extending portion being provided with a fold line in spaced relation with the side of the pocket to provide a flap foldable over the pocket, the sheet being perforated between the pocket and the fold line and the perforations being arranged to form an index tab having an upper edge co-extensive with the fold line.

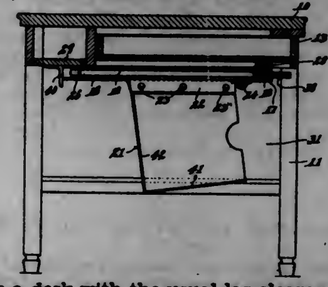
1,922,214
WALL TILE ATTACHMENT
Andrew W. Nelson, Terre Haute, Ind., assignor to Columbian Enameling & Stamping Co., Terre Haute, Ind., a Corporation of Indiana
Application October 8, 1931. Serial No. 567,651
6 Claims. (Cl. 189—85)

1. A corner structure for mounting sheet metal, wall tile at the meeting of two walls comprising a securing strip anchored to both the walls adjacent the corner thereby tying the walls together and having side flanges standing out from said walls and directed angularly away from each other, and corner tile members having side flanges directed angularly toward each other slidably receiving the side flanges of said strip therebetween said tile members having end



flanges at their abutting ends which end flanges terminate short of the side flanges thereon providing passage for the side flanges of the securing member between the end flanges and side flange of a tile member.

1,922,215
BOOKHOLDER
John E. Newberg, Chicago, Ill.
Application January 25, 1929. Serial No. 334,872
4 Claims. (Cl. 45—90)



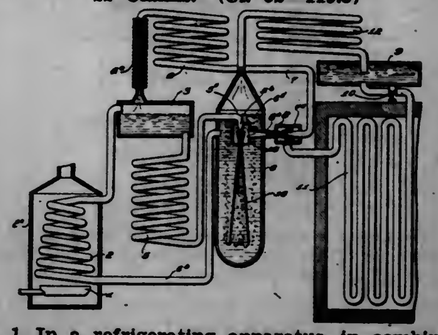
4. In a desk with the usual leg clearance space thereunder, a trackway located therein to one side of said clearance space so as not to interfere with the legs of the user, means movable on said trackway for supporting a book holder, and a book holder supported by said means.

1,922,216
LAMINATED FIELD ASSEMBLY FOR ELECTRIC MOTORS
Lawrence M. Persons, St. Louis, Mo., assignor to The Emerson Electric Mfg. Co., St. Louis, Mo., a Corporation of Missouri
Application June 28, 1930. Serial No. 464,490
5 Claims. (Cl. 172—36)



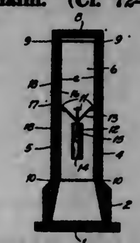
1. In a motor field assembly of the salient pole type, a laminated magnetic structure including a series of stampings, each having a plurality of pole pieces joined at their inner ends by a web and open at their outer ends, and a second series of stampings forming continuous yokes connecting said pole pieces, each stamping in both series having a hole therethrough to receive a clamping member and so arranged that the clamping member engages through holes in some stampings only in a series and engages through holes in stampings of an adjacent series.

1,922,217
REFRIGERATING MEANS AND METHOD
Bo Folke Randel, San Diego, Calif., assignor to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware
Application October 3, 1927. Serial No. 223,508
22 Claims. (Cl. 62—119.5)



1. In a refrigerating apparatus, in combination, a generator for decomposing a solution into a liquid and a vapor, means to liquefy said vapor, an evaporator, means to introduce the liquefied vapor at a reduced pressure into said evaporator, means including a condenser for introducing another liquefied vapor inert with respect to said first mentioned liquid into said evaporator whereby both liquids evaporate, an ejector actuated by said first mentioned liquid for withdrawing vapor from said evaporator, a vessel into which said vapor and liquid are delivered, a conduit connecting said vessel with said generator and a conduit connecting said vessel with said evaporator.

1,922,218
MONUMENT
George Ritter, Pinckneyville, Ill.
Original application June 23, 1930, Serial No. 463,109. Divided and this application January 19, 1931. Serial No. 509,619
1 Claim. (Cl. 72—7.2)

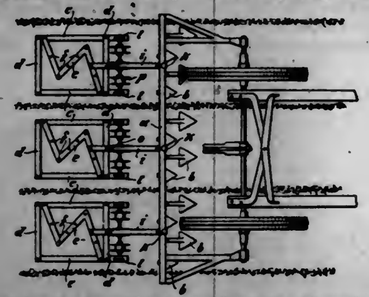


A monument comprising a suitable base, individual slabs erected on said base to form the sides of the monument, said slabs being in abutting relation at the corners of the monument, a suitable cap disposed on the sides, tie members connecting opposite sides, and a weight connected with the tie members and suspended therefrom for exerting tension inwardly on said tying members.

1,922,219
CULTIVATOR
Walter Schumann, Gornitz, near Leisnig, Germany
Application August 7, 1930, Serial No. 473,533, and in Germany June 5, 1930
1 Claim. (Cl. 97—8)

A beet hoeing machine comprising a wheel-supported tool bar, a plurality of harrow units

each comprising a square frame, a zig-zag bar carried diagonally across each of said frames, tines secured detachably to said zig-zag bars and



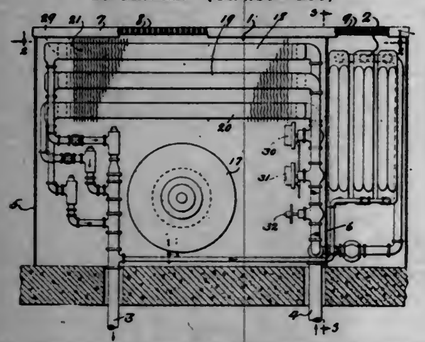
to the frame members, and arms whereby the harrow units are rigidly connected to said tool bar in adjustable spacing.

1,922,220

HEATING AND VENTILATING APPARATUS

Douglas Sprague, deceased, late of Mount Vernon, N. Y., by Etta Grant Sprague, administratrix, Mount Vernon, N. Y

Application July 1, 1931. Serial No. 548,102
10 Claims. (Cl. 257—137)



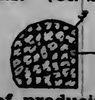
3. Heating apparatus comprising a heating and ventilating section, a cooperating direct radiator section adjacent the first-mentioned section, risers for said sections, valves for said sections, a circulating fan cooperating with the heating and ventilating section, and a cabinet for enclosing all of said apparatus.

1,922,221

RESISTANCE MATERIAL

Max Steenbeck, Berlin-Westend, and Rudolf Gottfried Berthold, Berlin-Siemensstadt, Germany, assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania

Application July 18, 1930, Serial No. 468,808, and in Germany July 20, 1929
2 Claims. (Cl. 201—76)



2. The method of producing a resistor which comprises sintering glass dust at a low temperature to produce a porous mass, coating the internal and external surfaces of the porous mass with a metal and then heating the coated glass to the melting point of the glass.

1,922,222

PLOW

Carl G. Strandlund and Stanley M. Madill, Moline, Ill., assignors to Deere & Company, Moline, Ill., a Corporation of Illinois

Application May 21, 1930. Serial No. 454,263
57 Claims. (Cl. 97—47)



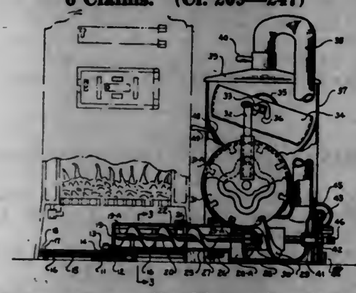
1. A two-way plow comprising two oppositely acting rearwardly divergent gangs movable alternately into operative position and arranged at opposite sides of a normal central line of draft, a centrally located draft member connected with said gangs and about which the gangs are adapted for independent horizontal swinging movement with respect to the line of advance under the force of draft when in operative position, and means for preventing appreciable lateral swinging movement of the gangs when in inoperative position.

1,922,223

MACHINE FOR REMOVING AND SIFTING ASHES

George Jack Streib, Mount Vernon, N. Y.

Application June 26, 1931. Serial No. 547,012
6 Claims. (Cl. 209—247)



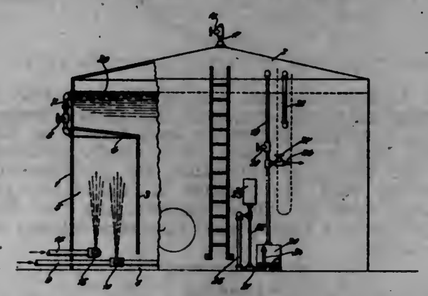
1. In an ash and the like materials removing and sifting machine, the combination with an enclosed chamber of a horizontally arranged screw conveyor extending from the center of said enclosed chamber to without to remove ashes and the like materials therefrom circular revolving disc member forming the floor of the enclosed chamber and occupying the space beneath path of screw conveyor, a tubular casing, the screw conveyor rotating therein, said tubular casing having a rectangular opening at its side, equal to the approximate length of radius of said circular revolving disc, into which ashes and like materials are guided by said circular revolving disc, into the path of screw conveyor to conduct said ashes and like materials into the action of an elevating screw conveyor, being larger in proportion than screw conveyor to form a pocket with said tubular casing to prevent a jamming action of ashes and like materials against a worm wheel in mesh with said elevating screw conveyor and rotated thereby to drive said ashes and like materials through a funnel shaped conduit having the larger area leading into a sifting member, cam means on said worm wheel for moving a sifting screen, and means for discharging into can or suitable receptacle.

1,922,224

REVIVIFICATION AND PRESERVATION OF CHEMICAL SOLUTIONS

Sijbren Tijmstra, Clayton, Mo., assignor to Shell Petroleum Corporation, a Corporation of Virginia

Application August 30, 1929. Serial No. 389,382
6 Claims. (Cl. 23—64)



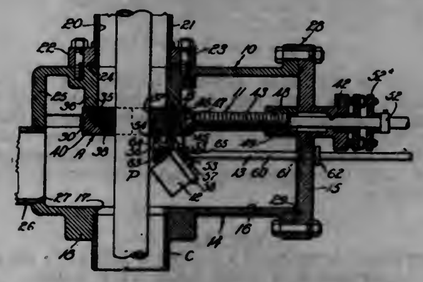
1. The method of causing absorption of a gas by a liquid which includes confining the liquid in a tank, venting the tank at the top, introducing and confining the gas below the level of the liquid in a sealed chamber in communication with the liquid in the tank near the bottom of the chamber to cause the level of the liquid to rise to the top of the tank thus ejecting from the top of the tank the air which was originally contained therein above the original level of the liquid, and sealing the vent.

1,922,225

CONTROL VALVE

Harry P. Wickersham, Huntington Park, and James O. Tow, South Pasadena, Calif.

Application January 14, 1931. Serial No. 508,624
13 Claims. (Cl. 277—22)



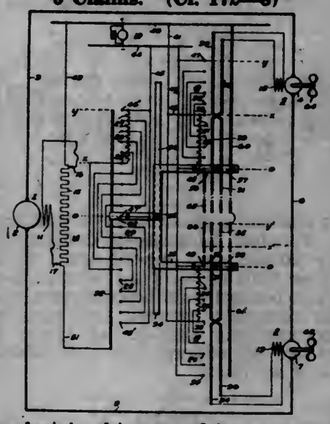
1. A control head of the character described including, a body adapted to be mounted on the upper end of a well casing and having an opening to register with the casing and a chamber intersecting the opening, two valve members movable in the chamber and operable to extend across the opening and having recesses forming an opening for passing an object extending through the casing, and a plug carried by one of the members for filling the last mentioned opening.

1,922,226

ELECTRIC SHIP-PROPULSION SYSTEM

James C. Wilson, Great Haywood, and Herbert S. Carnegie, Stafford, England

Application January 12, 1931, Serial No. 508,026, and in Great Britain January 15, 1930
6 Claims. (Cl. 172—8)



1. An electric ship-propulsion system including a main separately excited generating station, a plurality of separately excited motors having their armatures connected in series circuit relation to the generating station, means for varying the excitation of the respective motors and means operable simultaneously with the means for varying the excitation of the motors for keeping the load on the main generating station substantially constant during the variations of the excitation of the motors.

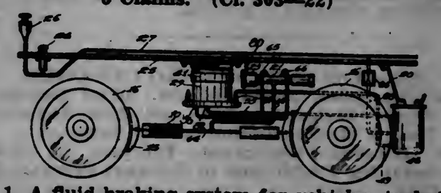
6. An electric ship propulsion system as claimed in claim 1 in which the motor fields and generator field are provided with a single mechanically coupled regulator mechanism for selectively reducing the excitations of the motors to zero and then increasing the excitations in reverse direction simultaneously with reductions and increases, respectively, of the generator field excitation without reversal whereby the generator voltage is reduced and then increased by an amount to correspond to the voltage required by the motors.

1,922,227

FLUID PRESSURE BRAKING SYSTEM

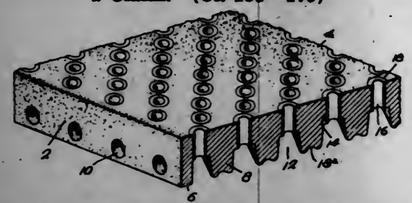
Winston A. Brecht, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania

Application March 7, 1931. Serial No. 520,830
6 Claims. (Cl. 303—22)



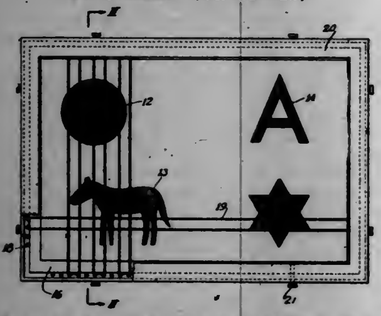
1. A fluid braking system for vehicles, including means for controlling the movements of a fluid provided in a braking system, in combination with a load-carrying container connected to the braking system for subjecting said fluid to a pressure, and means disposed for operation by the movements of the vehicles for maintaining a predetermined amount of said fluid in said container.

1,922,228
VENTILATED SEAT CUSHION
Harold Brown, Kansas City, Kans., assignor of one-half to Harry C. Crandall, Kansas City, Kans.
Application May 28, 1930. Serial No. 456,492
1 Claim. (Cl. 155—179)



A seat cushion consisting of a resilient body portion, stud-like projections depending from said body portion and spaced apart to provide for the free circulation of air around said projections and beneath said body portion, air ducts extending vertically through said body portion and communicating with the air spaces around said stud-like projections, and stiff tubular linings in said air ducts.

1,922,229
GAME
Lawrence J. Burke, Chicago, Ill., assignor to Foster Products, Inc., Chicago, Ill., a Corporation of Illinois
Application September 24, 1931
Serial No. 564,828
10 Claims. (Cl. 35—12)

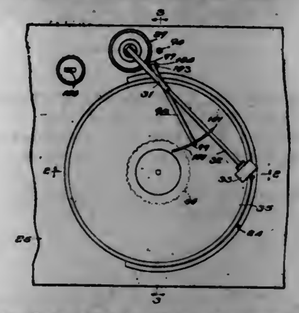


1. In a game or the like, a rigid backing member; a porous and hair-surfaced material on said rigid member; projecting studs on the periphery of said frame; a frame adapted to snugly receive said rigid member; and elastic means adapted to engage the projecting studs on opposite sides of said frame member and hold a plurality of hair surfaced segments in position.

1,922,230
PROCESS OF PREPARING CYANAMID
Nikodem Caro, Berlin-Dahlem, Albert Rudolph Frank, Berlin-Halensee, and Hans-Heinrich Franck, Berlin-Charlottenburg, Germany
No Drawing. Application February 7, 1930, Serial No. 426,786, and in Germany February 8, 1929
6 Claims. (Cl. 23—78)

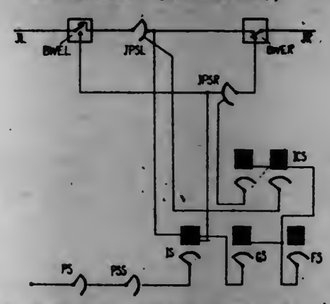
1. A process of producing calcium cyanamid consisting in heating calcium carbamate in a first stage to convert it as far as possible into calcium cyanamid, and in treating the reaction product from the first stage with ammonia at 600 to 800° C. to further enrich the same in calcium cyanamid.

1,922,231
PHONOGRAPH
James A. Cameron, Oak Park, Ill.
Application February 24, 1931. Serial No. 517,777
14 Claims. (Cl. 274—10)



1. In a phonograph, the combination with a tiltable record rotating table; of a record centering pin axially adjustable with respect to the table; and means solely mechanically actuated by the tilting of the table, for progressively lowering said pin relative to the table, an amount corresponding substantially to the thickness of a record upon successive tiltings of the table.

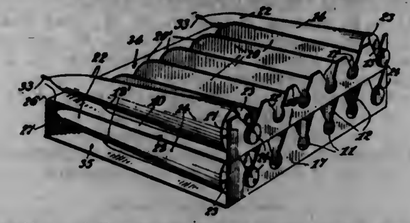
1,922,232
TELEPHONE SYSTEM
David Adam Christian, London, England, assignor to Siemens Brothers & Company Limited, London, England
Application April 13, 1931, Serial No. 529,680, and in Great Britain April 25, 1930
30 Claims. (Cl. 179—18)



1. In a telephone system, a plurality of exchanges, junctions connecting the exchanges in tandem or serial relationship, and means in each intermediate exchange for associating free junctions incoming from the adjacent exchanges on each side to maintain a free route through the exchange.

1,922,233
METHOD AND MEANS FOR PACKING COLLAPSIBLE TUBES AND THE LIKE
Frank B. Cooney, Sandusky, Ohio, assignor to The American Crayon Company, Sandusky, Ohio, a Corporation of Ohio
Application September 2, 1931
Serial No. 560,778
6 Claims. (Cl. 206—65)

1. Means for packing collapsible tubes and the like comprising sheet stock having elongated alternating webs and slots, with the material of the slots forming lateral flaps integral with the webs, a shelf engaging over the flaps at one end thereof and bent from the stock, said shelf having openings in relation to the slots for receiving therein the head ends of the tubes for the retention of the tubes between the flaps and at the confines of the slots which avoid crushing the tubes.



1,922,234
SWITCHING MECHANISM FOR AUTOMOTIVE VEHICLES
Harry A. Douglas, Bronson, Mich.
Application January 25, 1930. Serial No. 423,413
4 Claims. (Cl. 200—8)



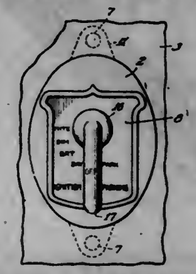
1. The combination with an inclined hollow steering column of an automotive vehicle; of switching mechanism assembled with the steering column at the lower end of said column and located upon the upper side of the column axis; a casing for the switching mechanism; a shaft passing through the steering column and having an operating lever at its upper end whereby this shaft may be turned, this shaft being in actuating relation with the switching mechanism; a push button upon the upper end of the shaft for governing the circuit of an electromagnetic horn, a portion of the horn circuit passing through the shaft; a conductor in the circuit of the horn passing through the casing; and a circuit connector included in the horn circuit and inclusive of two complemental contacts, one upon the end of the aforesaid conductor that is contiguous to and upon the exterior of said casing and the other mounted upon said casing.

1,922,235
SWITCHING MECHANISM
Harry A. Douglas, Bronson, Mich.
Application February 6, 1932. Serial No. 591,260
14 Claims. (Cl. 200—8)



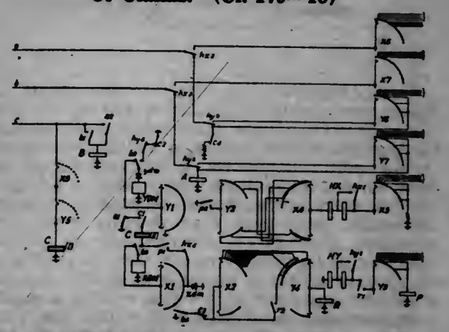
1. In a switching mechanism, the combination with a rotatable shaft; of a clip projecting radially from the shaft and keyed to rotate with the shaft; a block of insulation secured between the sides of the clip; a contact carried by said block; a continuation of the clip extending radially on the opposite side of the shaft from the contact; an outwardly spring pressed rider on said continuation; and a corrugated member against which the rider bears, whereby the clip is rotated with a snap action.

1,922,236
SWITCHING MECHANISM
Harry A. Douglas, Bronson, Mich.
Application February 6, 1932. Serial No. 591,261
8 Claims. (Cl. 200—8)



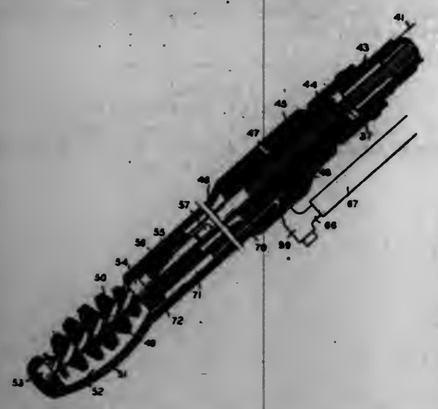
1. In a switching mechanism the combination of a rotatable contact carrier, spring pressed contacts carried by said carrier arranged in a plane extending along the axis of rotation of the carrier and passing through said axis perpendicularly, said contacts extending diametrically on opposite sides of said axis, and complementary contacts circumferentially arranged about said axis and on each side thereof to be engaged by opposite ends of said contacts, one of said complementary contacts being in the form of an arcuate plate simultaneously engaged by all of said contacts carried by the contact carrier, said arcuate plate constituting a circuit continuing member for an electromagnetic horn.

1,922,237
AUTOMATIC TELEPHONE SYSTEM
Alexander John Escott, London, England, assignor to Siemens Brothers & Company Limited, London, England
Application July 13, 1931, Serial No. 550,323, and in Great Britain August 7, 1930. Renewed October 17, 1932
30 Claims. (Cl. 179—18)



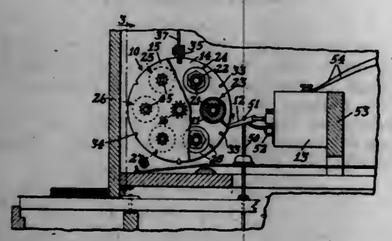
1. A switching device comprising two automatic switches, groups of outlets accessible to the respective switches, and means in each switch for marking a group of outlets accessible to the other switch.

1,922,238
DENTAL APPLIANCE
Samuel Freed, San Francisco, Calif.
Application June 6, 1931, Serial No. 542,498
1 Claim. (Cl. 15—24)



A dental appliance including a hollow holder, a shield mounted on said holder, a rotary tooth brush having radial bristles in said shield, motor means for driving said tooth brush, and a water nozzle within said shield adapted to discharge a water jet against the periphery of said brush and parallel with the axis thereof.

1,922,239
COMBINATION VOCAL PIANO
Antonio Fuschi, Los Angeles, Calif., assignor of one-half to Frank S. Reale, Los Angeles, Calif.
Application April 8, 1931, Serial No. 528,585
Renewed January 20, 1933
6 Claims. (Cl. 84—170)

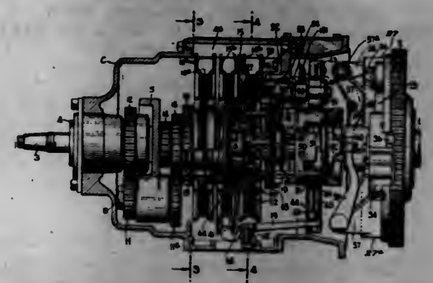


3. The combination with a piano of an auxiliary tone producer mounted within the piano casing, said auxiliary tone producer comprising six parallel shafts turnable about axes parallel to the piano keyboard; a multiplicity of tone discs strung on each of said shafts, in groups of five for each note and fixed thereto so as to turn therewith, said tone discs having vocal tones recorded thereon; a multiplicity of styluses mounted in position to engage one in each group of five tone disks, on one of said shafts at a time, when the piano key with which each is associated is depressed, a multiplicity of sound boxes connected to said styluses so as to receive their vibrations; means for bringing the tone disks on each of said six shafts into engagement with said styluses, in turn, and means for revolving said shafts when they are in that position.

1,922,240
DI-PHENYL PHENOLPHTHALEIN, SUBSTITUTION PRODUCTS THEREOF, AND METHOD OF PREPARING SAME
Sidney E. Harris, Brooklyn, N. Y., and Walter G. Christiansen, Bloomfield, N. J., assignors to E. R. Squibb & Sons, Brooklyn, N. Y., a Corporation of New York
No Drawing. Application May 23, 1931
Serial No. 539,632
9 Claims. (Cl. 260—65)

4. Halogen, nitro, amino and alky substitution derivatives of di-phenyl phenol phthalein.

1,922,241
SPEED TRANSMISSION
William Hasselkus, New York, N. Y., assignor to Cole Service Plan, Inc., New York, N. Y., a Corporation of New York
Application January 8, 1931. Serial No. 507,395
26 Claims. (Cl. 74—34)



1. In an automatic speed transmission having a driving shaft and a driven shaft, a plurality of movable selector members, each of said selector members being adapted to select a speed of said driven shaft below high speed when said selector member is held immovable, a speed-responsive governor device, and holding means for said selector members, said holding means being caused to be moved and being free to be moved into successive operative position solely by the movement of said governor device, and means operated by said governor device to interconnect said shafts so that they turn at the same velocity.

1,922,242
HOOD FASTENER
Max F. C. Heitman, Louisville, Ky., assignor to The Bade-Cummins Mfg. Company, Louisville, Ky., a Corporation of Delaware
Application February 10, 1931. Serial No. 514,807
4 Claims. (Cl 292—98)



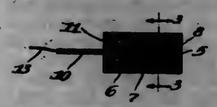
1. A hood fastener comprising a guide bracket adapted for attachment to a hood, a latch rod slidable therein, a slide on said rod and adapted to engage upon said bracket, stop means on said rod above said slide, a spring surrounding said rod and bearing against said slide and stop means, a rocker member adapted for pivotal attachment to the hood and to extend inwardly and outwardly thereof, said member engaging said slide and being adapted to raise the same and to raise said rod through said spring, a fixed coupling member engageable by said latch bar on raising of said slide, whereby continued raising of the slide compresses said spring, and connecting means between said rocker member and slide for lowering the latter.

1,922,243
COVER FOR THE OPENINGS OF COOKING STOVE HOT PLATES
Otto Herzmann, Essen, Germany
Application July 16, 1930, Serial No. 470,009, and in Germany July 23, 1929. Renewed January 13, 1933
4 Claims. (Cl. 126—211)



1. In a furnace of the class described a stove hot-plate, a heating-opening therein, a cover fitting into the said heating-opening, and hollow-spaces formed on its interior surface adapted for receiving the heating gases, said hollow-spaces forming a flue extending in a spiral line and being open at its outer end.

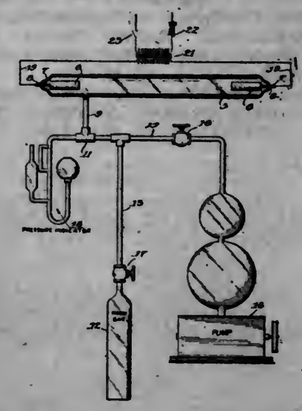
1,922,244
ELECTRODE AND METHOD OF MAKING THE SAME
Frederick L. Hunter, Jr., Lake Bluff, Ill., assignor to Fansteel Products Company, Inc., North Chicago, Ill., a Corporation of New York
Application September 13, 1930
Serial No. 481,640
4 Claims. (Cl. 176—126)



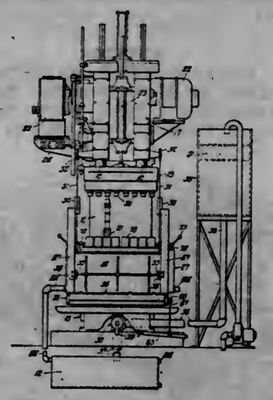
3. An electrode including an alkali compound producing mixture in combination with an auxiliary electrode comprising a body of high thermal capacity having a recess therein carrying said electrode mixture, and a bright metal sleeve embracing said body.

1,922,245
MANUFACTURE OF GASEOUS CONDUCTION DEVICES
Frederick L. Hunter, Jr., Lake Bluff, Ill., assignor to Fansteel Products Company, Inc., North Chicago, Ill., a Corporation of New York
Application November 28, 1930
Serial No. 498,597
9 Claims. (Cl. 176—2)

1. A method of processing gaseous conduction devices which comprises degasifying the electrodes of a gaseous conduction device having a reduced atmosphere, utilizing the gases so released from said electrodes to increase the gas pressure of said device and supplying 1000 volts per foot of said device to said electrodes whereby to condition the walls of the device by the luminous column established by the voltage supplied thereto.

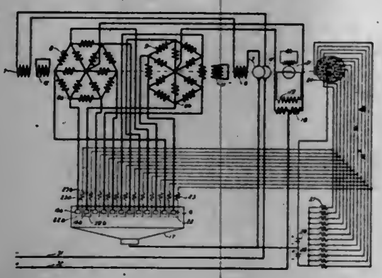


1,922,246
MACHINE TOOL
Albert M. Johnson, Rockford, Ill., assignor to Barnes Drill Co., Rockford, Ill., a Corporation of Illinois
Application April 23, 1930. Serial No. 446,442
14 Claims. (Cl. 51—34)



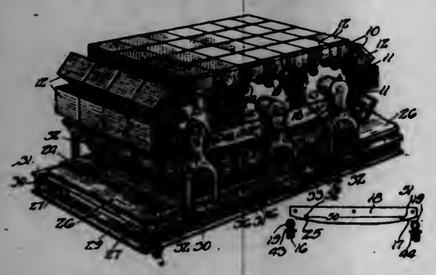
1. A machine tool comprising, in combination, a base, a vertically movable processing tool on said base, a work support beneath said tool, bottom and side walls about said support forming a coolant chamber in which a piece of work may be submerged during a processing operation, one of said side walls being movable to permit the work to be moved sidewise into and out of said chamber, a platform outside of said chamber adjacent said movable wall upon which the work may be supported, said platform being at a higher level than said work support, means mounted on said base movable vertically to the level of said platform so that the work may be slid horizontally from said platform onto said movable means, said movable means being operable to lower the work onto said work support, and means operable as the work is so lowered to locate the work in proper horizontal position on said work support.

1,922,247
DEVICE FOR COMMUTATING DIRECT CURRENT
Erwin Kern, Wettingen, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint stock company of Switzerland
Application November 21, 1930, Serial No. 497,095, and in Germany November 27, 1929
12 Claims. (Cl. 171—228)



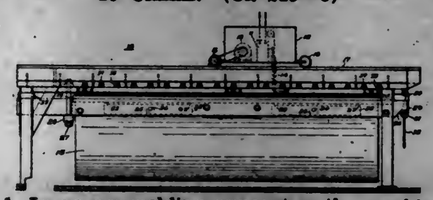
1. In a commutating system for dynamo electric machines, a dynamo electric machine comprising a plurality of operating windings each divided into a plurality of sections, a source of electric current supply therefor, and an electric valve means operable to periodically effect the operative connection and disconnection of said source of current sequentially with and from the respective sections of said windings in alternating order with respect to said windings.

1,922,248
PERFORATING MACHINE
Harry G. Kelly, Omaha, Nebr.
Application July 3, 1930. Serial No. 465,469
2 Claims. (Cl. 101—4)



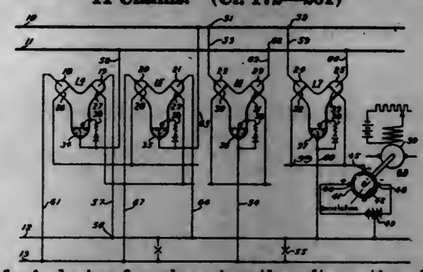
1. A means of indenting a flat sheet of material to provide indentations normal to the face thereof, comprising a series of die-plates having projections thereon, a series of flexibly connected blocks, each of said die-plates being slidably associated with one of said blocks, a stationary elongated base to receive material and over which such material may be moved, each of said die-plates in turn being adapted to move in a plane adjacent and parallel to said base substantially its entire length, means for moving said die-plates successively away from its associated bearing block to force the projections thereon to extend perpendicularly into the body of material on said base but not therethrough, and means on said bearing blocks for successively withdrawing said die-plates from the material on said base and with said projections normal thereto.

1,922,249
ARC WELDING APPARATUS
Gustav H. Koch, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application March 24, 1931. Serial No. 524,840
10 Claims. (Cl. 219—8)



1. In an arc welding apparatus, the combination of a welding anvil for supporting a blank to be welded, with pivotally mounted supporting members for supporting the welding anvil, the pivot points of the support members being downwardly movable to maintain the welding anvil substantially straight, irrespective of the pressure applied thereto.

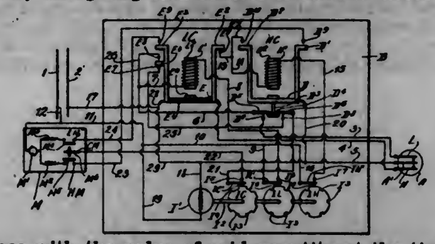
1,922,250
FREQUENCY-CHANGING CIRCUIT
Frederick W. Lyle, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application August 23, 1930. Serial No. 477,353
11 Claims. (Cl. 172—281)



1. A device for changing the alternating frequency between input and output lines which comprises two or more gaseous rectifiers across said lines, grids in said rectifiers and means for making the potential on the grids of one rectifier positive at intervals, and the grids of the other rectifier positive in intervening intervals, separated from said first intervals by at least a half-period of the greater of said alternating frequencies.
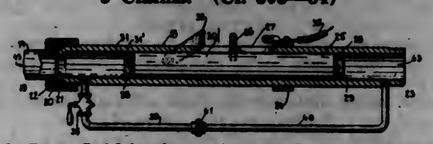
1,922,251
CONTROL SYSTEM
Donald Malpass, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a Corporation of Pennsylvania
Application October 18, 1929. Serial No. 400,508
11 Claims. (Cl. 236—78)

1. In a control system, the combination with a control meter comprising a member deflecting in response to changes in value of a quantity and a pair of spaced contacts selectively actuated by said member according to its deflection from a normal intermediate position, of a three position control mechanism having three control circuits and being selectively actuated into one or another of three control conditions accordingly as one or another of said control circuits is energized, and a relay mechanism electrically connected to said meter member and contacts and to said control circuits and comprising means for selectively energizing said control circuits in accord-



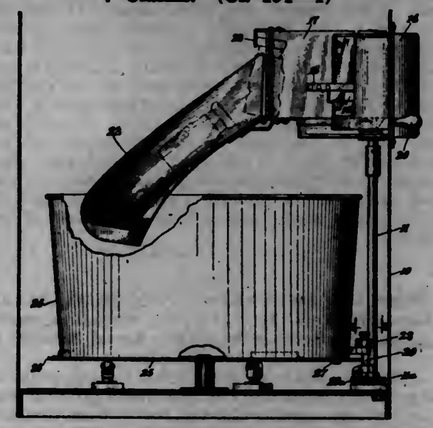
ance with the value of said quantity at the time of energization.

1,922,252
AUTOMATIC SAFETY CHECK DEVICE
Rudolph Martini, Jr., New York, N. Y.
Application October 10, 1930. Serial No. 487,704
5 Claims. (Cl. 303—84)



1. In a fluid brake system, a fluid compressor, a plurality of fluid pressure brakes, a plurality of cylinders connected to said brakes and to said compressor, a piston in each cylinder having fluid in contact with each end, each cylinder having a longitudinal slot and a pin on each piston projecting through said slot and limiting movement of said piston in said cylinder.

1,922,253
VENDING MACHINE
John H. McCormick and Frank M. Bender, Williamsport, Pa., assignors to Vendi Cater, Inc., Williamsport, Pa., a Corporation of Pennsylvania
Application March 23, 1931. Serial No. 524,520
7 Claims. (Cl. 194—4)



1. In combination, an oscillatable carrier for receiving and transferring bottles, a chute, means for discharging a bottle from said carrier into said chute, a rotatable container into which said chute discharges, and means for rotating said container a predetermined amount for each oscillation of the carrier.

1,922,254
THERMIONIC TUBE ELECTRODE
Leon McCulloch, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
No Drawing. Application May 20, 1926
Serial No. 110,548
6 Claims. (Cl. 250—27.5)

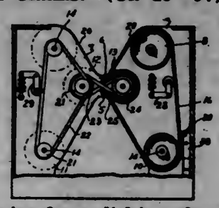
1. The process for manufacturing thermionic tube cathodes which includes applying to a surface a coating comprising finely divided nickel suspended in a volatilizable vehicle, eliminating the major portion of the vehicle, placing the coated surface in a non-oxidizing environment, eliminating the residuum of the vehicle, and then heating the nickel to a sintering temperature.

1,922,255
CLEANING AND POLISHING OUTFIT
James T. Miller, Utica, N. Y.
Application August 26, 1931. Serial No. 559,518
3 Claims. (Cl. 206—47)



1. In a cleaning and polishing outfit, a member adapted to hold successive layers of yarn thereon, and means embedded in said yarn for facilitating the removal of successive layers of yarn.

1,922,256
SHOE POLISHING AND BRUSHING DEVICE
Joseph H. Minor, Hermosa Beach, Calif.
Application August 28, 1931. Serial No. 559,895
4 Claims. (Cl. 15—97)

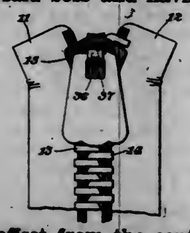


1. In a device for polishing shoes, a frame, a shield provided with V shaped recesses extending in opposite directions attached to said frame and inclined at an angle to the horizontal, mechanically movable polishing belts operative parallel to the sides of the recesses in said shield, and mechanism including a motor adapted to drive said belts in predetermined directions.

1,922,257
SLIDE FASTENER
Robert H. Nicholson, Meadville, Pa., assignor to Hookless Fastener Company, a Corporation of Pennsylvania
Application November 15, 1929
Serial No. 407,401
10 Claims. (Cl. 24—205)

10. In a slide fastener, a pair of stringers having rows of cooperating fastener elements thereon, a slider having overlying wings movable along said stringers to engage and disengage said fastener elements, integral wing connecting and stiffening means at one end of the slider, an

integral boss projecting upwardly from one wing of said slider directly over said wing connecting and stiffening means, and a pull pivotally connected to said boss and having a projecting



lug laterally offset from the center line of said slider and movable through an opening in one slider wing into engagement with the fastener elements on one of said fastener stringers.

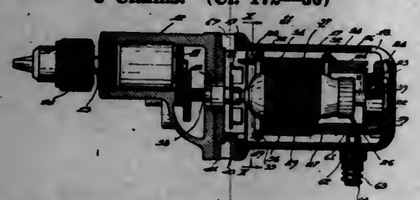
1,922,258

PORTABLE ELECTRIC TOOL

Lewis C. Packer, Longmeadow, Mass., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania

Application May 31, 1930. Serial No. 458,623

8 Claims. (Cl. 172—36)



1. In a portable motor-driven device, a unitary motor housing of molded heat and electric-insulating material having one end substantially closed and the other end open, a bearing bushing molded in said closed end, a motor assembly in the housing, a bearing bracket closing the open end of the housing, a bushing for a driven device engaging the bearing bracket, and means extending through the housing for the driven device and the bearing bracket for clamping the motor housing, bearing bracket, and the housing for the driven device in assembled relation.

1,922,259

NOZZLE

Raymond P. Paradise, Indianapolis, Ind.

Application August 5, 1931. Serial No. 555,272

3 Claims. (Cl. 299—106)



2. A liquid discharge nozzle including a cup-shaped member open across the outlet end, convexly protruding at the inlet end, and having a triangular orifice in the convex inlet end centrally located thereof.

1,922,260

CIRCUIT MAKER

Franz Riedel, Long Island City, N. Y.

Application May 22, 1930. Serial No. 454,557

1 Claim. (Cl. 200—59)

In an automatic circuit maker for vehicle signal lamps, the combination with the front axle and tie rod connecting the steering knuckles, an enclosed cylindrical housing of insulating material fixed on said front axle, a pair of spaced electrical contacts in said housing, one for each signal lamp, a bar pivoted on the axis of said housing having one end adapted to engage either of said contacts and the other end extending outwardly



through the wall of the housing, said bar being in the electric circuit, a pair of opposed collars each independently adjustable on said tie rod, and lugs extending upwardly from the adjacent sides of said collars having between them the extending end of said lever.

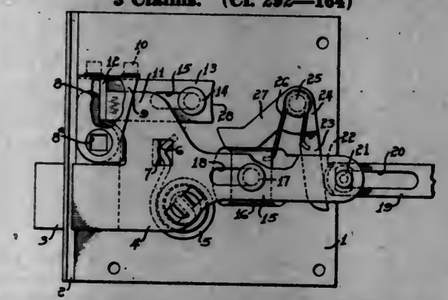
1,922,261

DOORLATCH

Holden W. Rightmyer, Toledo, Ohio, assignor to The American Swiss Company, Toledo, Ohio, a Corporation of Ohio

Application October 27, 1930. Serial No. 491,378

3 Claims. (Cl. 292—164)



1. A door latch comprising a case plate, a tensioned latch bolt movable in the plane of said case plate, a roll back for retracting said latch bolt, inside means for retracting said bolt including a longitudinally movable plate having lost motion in non-bolt retracting direction when said bolt is in projected or latching position, and means for dogging said roll back by the lost motion of said plate, said means comprising a plate directly abutting said roll back on one side and said bolt on the opposite side whereby said bolt is retracted by said roll back through said plate, means to guide movement of said plate over said case plate, and a bent lever movable by said lost motion into position to block movement of said plate.

1,922,262

PROCESS OF MAKING CHEMICAL PULP

James H. Ross, Jr., Montreal, Quebec, Canada

Application October 31, 1930. Serial No. 492,444

2 Claims. (Cl. 92—7)

1. In the manufacture of chemical pulp the step of maintaining the optimum pulping conditions throughout the course of the digesting process by selective control of the active reagents in contact with the fibrous material, which comprises withdrawing a portion at least of the digesting liquid, adding an active agent thereto in predetermined concentration, and returning the treated portion of the digesting liquid to the digesting process.

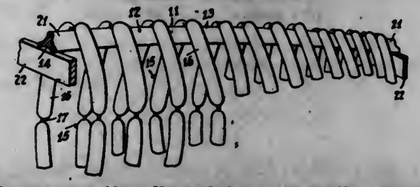
1,922,263

SMOKE STICK

Oscar C. Schmidt, Cincinnati, Ohio, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio, a Corporation of Ohio

Application January 15, 1932. Serial No. 586,758

1 Claim. (Cl. 99—2)



A cross-sectionally solid non-metallic smoke-stick formed with a plurality of spaced-apart ribs arranged radially about the smoke-stick and extending lengthwise thereof to form separated contact lines for the sausages suspended thereon, said ribs being equi-distant about said smoke-stick so that any two of said ribs act as resting points for the smoke-stick on end supports with the portions of said smoke-stick between said last-named ribs spaced from said end supports, for exposing all portions of the smoke-stick, of the sausages and of the end supports between all ribs to the direct heat and smoke of the smoking of the sausages, and arranged so that any of said ribs may be directed upwardly in resting the smoke-stick on others of said ribs on end supports, in order that the bow of any warp in the smoke-stick may be arranged upwardly for counteracting said warp by the weight of the sausages during the smoking of said sausages.

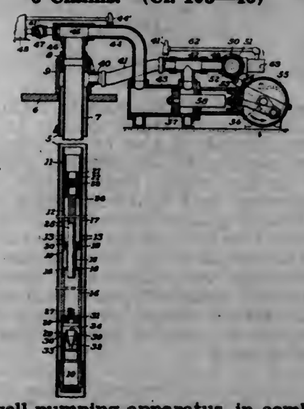
1,922,264

RODLESS PUMP

John M. Shimer, Braddock, Pa., assignor to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of New Jersey

Application October 15, 1931. Serial No. 568,961

6 Claims. (Cl. 103—46)



1. In well pumping apparatus, in combination, a liquid lifting pump of the displacement type disposed adjacent the bottom of a well, fluid columns to actuate said pump extending therefrom to the top of the well, a reciprocating pump disposed adjacent the top of the well and operatively connected to said columns to apply pressure alternately thereto to actuate said pump, means in said liquid lifting pump to displace well fluid into one of said columns, means to maintain the volume of the other column substantially constant, and rotary valve means adjacent the top of the well operatively connected in synchronism with the said reciprocating pump to permit the discharge from the said first column of a volume of fluid substantially equivalent to that displaced therein by the said liquid lifting pump.

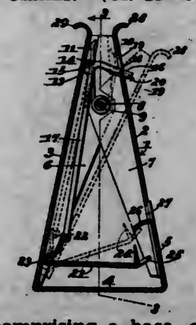
1,922,265

ANIMAL TRAP

Walter L. Thada, Klemme, Iowa

Application May 20, 1932. Serial No. 612,576

5 Claims. (Cl. 43—97)



1. A trap comprising a base, a guard and a fixed jaw in spaced relationship on the base, a movable jaw and means by which it is pivoted to the fixed jaw, resilient means tending to swing the movable jaw to a closed position against the fixed jaw, and trip mechanism for holding the movable jaw open against the guard, said jaws being in upstanding relationship to the base and combining to form a closed runway, a portion of said trigger mechanism being accessible from said runway.

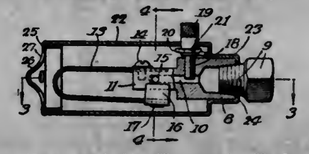
1,922,266

THERMOSTATIC AIR VALVE

Michael E. Toman, Chicago, Ill., assignor to E. Toman & Co., Chicago, Ill., a Corporation of Illinois

Application March 10, 1932. Serial No. 597,934

8 Claims. (Cl. 236—101)



1. In a thermostatically controlled air valve, the combination of a valve body having a laterally disposed air inlet opening therein, a thermostatic metal spring secured at one end to one side of said body, and a valve member loosely secured to the other end of said spring to control said opening, said valve member being formed with portions being bent at an angle to each other, with one portion loosely attached to the spring, and the looseness of said member on said spring serving to permit said member to more easily adjust itself in closed position.

1,922,267

RUMBLE SEAT TOP

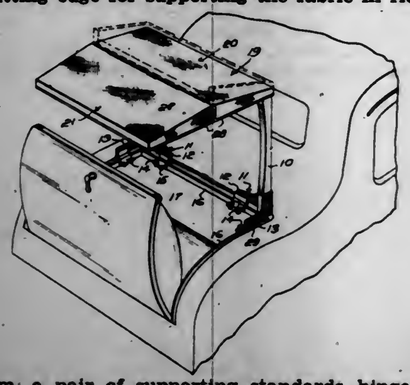
Ike Weiss, Brooklyn, N. Y.

Application July 15, 1932. Serial No. 622,737

2 Claims. (Cl. 296—99)

1. A collapsible rumble seat top of the character described for motor vehicles comprising a pair of identical top sections embodying substan-

tially rectangular frames having abutting edges, said frames inclined downwardly from their abutting edges, hinge means connecting the frames at their abutting edges, a single sheet of fabric covering said frames and secured thereto, ridge bars carried by each frame section adjacent its abutting edge for supporting the fabric in ridge



form; a pair of supporting standards hingedly connected at opposite corners to one of said frame sections, means for rigidly and detachably connecting said standards to the vehicle, said top sections, supporting standards and connecting means adapted to be collapsed into a compact form.

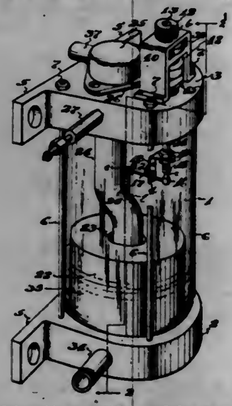
1,922,268

VALVE CONTROLLING APPARATUS FOR CHLORINATORS

Albert S. Yeagley, Jr., Dallas, Tex., assignor to Wallace & Tiernan Company, Inc., Belleville, N. J., a Corporation of New York

Application January 10, 1931. Serial No. 507,807

3 Claims. (Cl. 210—28)



1. In combination with a chlorinator, gas pressure regulating apparatus including two liquid containers connected for the passage of liquid therebetween, a float controlled by the liquid level in one of said containers, a valve actuated by said float for controlling the flow of gas into said container to maintain a supply of gas therein under substantially constant pressure for supply therefrom to the chlorinator, and a vent pipe extending from a point in said container below the valve closing liquid level and above the connection to the other container for discharging gas from the float container to atmosphere when the gas pressure in the container rises above a predetermined pressure.

1,922,269

ZIGZAG MESH FABRIC

Theodore H. Wickwire, Jr., New York, N. Y., assignor to Welded Fabrics Corporation, New York, N. Y., a Corporation of New York

Application November 14, 1930

Serial No. 495,549

10 Claims. (Cl. 189—82)



1. As a new article of manufacture, zigzag, unwoven, diamond-mesh sheet fabric consisting of a set of continuous laterally spaced strands recurrently laid or folded inwardly from the sheet edges, with each succeeding lay or fold on the same face of, and overlapping substantially half the area of, the preceding lay or fold, and made self-sustaining by the strands having the meeting surfaces thereof directly secured together at points of crossing.

1,922,270

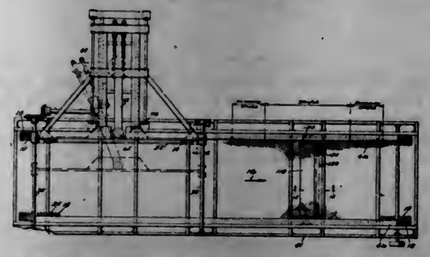
FABRIC MAKING

Raymond J. Southwell, New Rochelle, and Theodore H. Wickwire, Jr., New York, N. Y., assignors to Welded Fabrics Corporation, New York, N. Y., a Corporation of New York

Application November 14, 1930

Serial No. 495,598

10 Claims. (Cl. 140—112)



1. The process of continuously making a strip of open mesh fabric which consists in arranging the several strands of a set of continuous strands to extend parallel to one another from edge to edge of the strip width, then parallel to one another thereover back to the first edge, and so on, while advancing same longitudinally of the strip in crossing over or back a distance substantially equal to the width of the set of strands, whereby a substantially continuous and complete diamond-pattern mesh is obtained with substantially evenly spaced strand loops along the edges, and securing the strands together locally at the points of crossing.

1,922,271

APPARATUS FOR FORMATION AND WELDING OF CROSSED WIRE PRODUCTS

Raymond J. Southwell and Theodore H. Wickwire, Jr., New York, N. Y., assignors to Welded Fabrics Corporation, New York, N. Y., a Corporation of New York

Application January 3, 1933. Serial No. 649,794

21 Claims. (Cl. 219—4)

1. In apparatus for making unwoven wire mesh fabric, means for supplying continuous strands of wire from stationary sources of supply and forming them into unwoven mesh relation, means for traveling the mesh along while holding same in the formed relation, means for continuously welding the strands directly to one another at cross-



ings while so held and traveled, and means for releasing the completed mesh fabric from the traveling means.

1,922,272

AIR DRYING COMPOSITION

Howard L. Bender, Bloomfield, N. J., assignor to Bakelite Corporation, New York, N. Y., a Corporation of Delaware

No Drawing. Application October 8, 1932

Serial No. 636,955

4 Claims. (Cl. 134—26)

1. Process of preparing air-drying coating compositions, which comprises condensing a phenol with a reactive methylene-containing agent in proportions to yield a resinoid, dehydrating the mass under the continued application of heat to a condition approaching transformation to an insoluble state, arresting the reaction by the addition of relatively cold solvent boiling above 100° C., heating the solution to advance the resinoid therein, and adding a relatively low-boiling solvent thereto to yield a clear solution containing the resinoid in a state of advancement characterized by substantial non-penetrativeness.

1,922,273

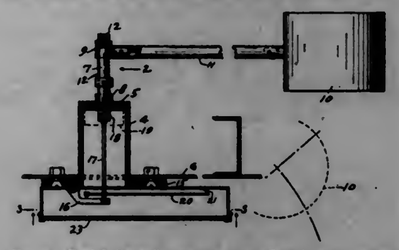
MAGNETIC FLUID GAUGE

Albert Briggs, Vallejo, Calif.

Application May 13, 1932. Serial No. 611,183

2 Claims. (Cl. 73—32)

(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a fluid level gauge, a float, an arm attached thereto, a post on which one end of said arm is pivotally mounted, a sleeve adapted to extend through and be secured to the wall of a container for fluid, a closure for the inner end of said sleeve, means on the outer face of said closure forming a socket in which an end of said post is secured, a horseshoe magnet mounted to rotate with said arm about said post as an axis, the ends of the limbs of said magnet lying in cut away portions in the outer face of said sleeve at the inner end thereof, a bar magnet in said sleeve disposed with its poles adjacent the respective opposite poles of the horseshoe magnet, a pin on which said bar magnet is mounted to rotate therewith, said pin having one end journalled in said closure, a bracket in which the other end of said pin is journalled, an index secured to said pin to rotate therewith, and a scale over which an end of said index moves to indicate the relative level of the surface of the fluid on which said float is supported.

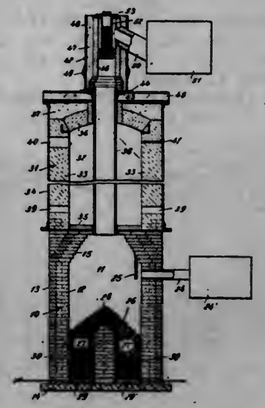
1,922,274

METALLURGICAL FURNACE

Earl H. Bunce and Alfred O. Ashman, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey

Application January 28, 1931. Serial No. 511,718

20 Claims. (Cl. 13—8)



18. A zinc metallurgical furnace comprising a vertically disposed reduction chamber provided with an opening at its upper end for the introduction of agglomerated charge materials and a plurality of openings at its lower end for the withdrawal of spent solid residues, the lower portion of said chamber containing at least one upright wall adapted to subdivide the chamber into a plurality of lower compartments that are in free communication with the upper portion of said reduction chamber, electrodes in association with said chamber, said electrodes being located at the lower end of each of said lower compartments so that each electrode supports the column of charge materials confined within each compartment, and a conduit in open communication with the upper end of the reduction chamber for the withdrawal of evolved gases and liberated zinc vapor.

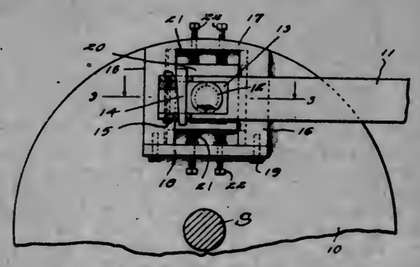
1,922,275

CUSHIONED CRANK PIN

Frank N. Canulette, Slidell, La., assignor to Canulette Ship Building Co. Inc., Slidell, La., a Corporation of Louisiana

Application April 14, 1932. Serial No. 605,287

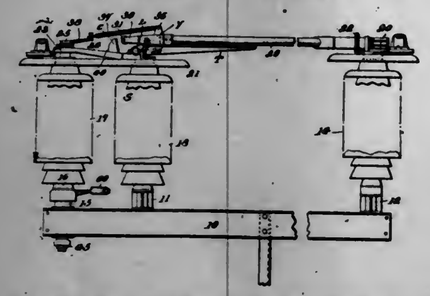
1 Claim. (Cl. 74—38)



A crank pin mounting and adjusting means comprising a disk, a pair of parallel guides on one face of the disk, a slide movable in the guides, threaded members supported by the disk in the

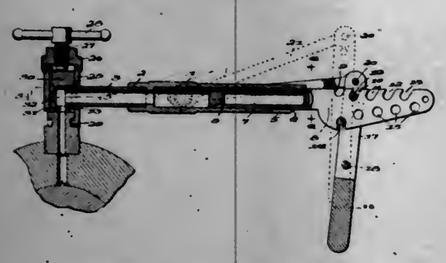
path of the slide, and cushioning means interposed between said threaded members and the confronting ends of the slide to cushion the movement of the slide, said threaded members also providing means whereby the slide may be adjusted relative to the axis of the disk.

1,922,276
HIGH TENSION SWITCH
George L. Carlisle, Kenova, W. Va., assignor to Delta Star Electric Company, Chicago, Ill., a Corporation of Illinois
Application October 14, 1929. Serial No. 399,624
7 Claims. (Cl. 200—48)



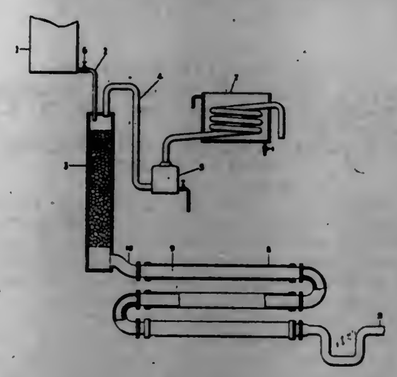
1. A switch of the character described comprising a fixed support, a switch blade, a link member pivotally mounted on said support and provided with a cross bar pivotally connected with the switch blade, a movable torsion member engaging said blade, means operated by movement of the link member for applying a yieldable tension to the torsion member, so as to assist the arcuate movement of the blade in the first mentioned direction and to cushion movement of the blade in the opposite direction, and a contact clip cooperating with said switch blade.

1,922,277
GREASE GUN
Frederic Leon Carson and William Bowermaster, San Antonio, Tex.
Application April 25, 1932. Serial No. 607,432
10 Claims. (Cl. 221—47.4)



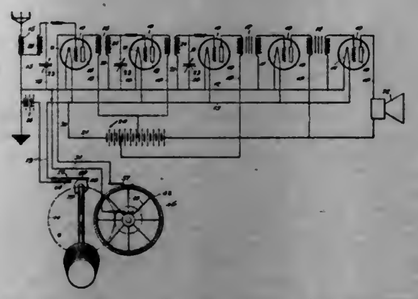
1. A grease gun comprising a cylinder, means for supplying lubricant to said cylinder, a piston mounted within said cylinder, a lever for operating said piston, means on the piston for engagement by said lever for forcing said piston into said cylinder to expel the lubricant therefrom, means on said piston independent of said last mentioned means for engagement by said lever for moving the piston to permit refilling of said cylinder with lubricant, and means for connecting said cylinder to a fitting on the bearing to be lubricated.

1,922,278
PROCESS OF CONCENTRATING NITRIC ACID
Clark W. Davis, Swarthmore, Pa., and Stanley L. Handforth and William E. Kirst, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware
Application October 8, 1929. Serial No. 398,148
3 Claims. (Cl. 23—160)



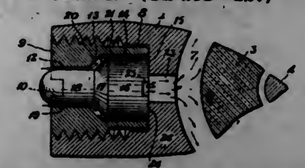
1. The process of concentrating nitric acid which comprises passing a mixture of nitric acid and a dehydrating agent down through a dehydrating tower, driving off therefrom strong nitric acid vapors, passing the residual mixture still containing some nitric acid through a series of boiling vessels forming a cascade, vaporizing weak nitric acid in the cascade, and retaining all the weak nitric vapors from the boiling vessels in the system by returning them to the dehydrating tower.

1,922,279
RADIORECEIVER
Christopher M. Daly, Bridgeport, Conn.
Application October 2, 1929. Serial No. 396,673
7 Claims. (Cl. 250—20)



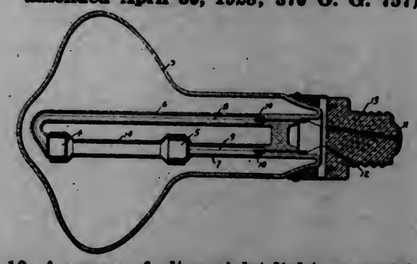
4. In a radio-receiving set, tuning means for adjusting the set to the frequency of the signal desired to be received; volume control means other than the tuning means for optionally increasing or decreasing the volume of the signal received; and a single operating device for adjusting the tuning means and for adjusting the volume control means through a complete cycle of volume control from maximum to minimum for each one of a large number of small adjustments of the condensers.

1,922,280
AIR VALVE
William J. Daubenspeck, Cleveland, Ohio, assignor to The Ignition Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio
Application September 22, 1927, Serial No. 221,239. Renewed June 7, 1932
4 Claims. (Cl. 251—127)



1. An improved assembly for air valves comprising a chambered body formed with a hole in its outer face, a tubular valve support mounted in said hole, a perforated partition wall between the chamber of said body and the interior of said valve support, the exterior surface of said partition wall forming a valve stop, a freely reciprocatable valve disposed in said support and formed with longitudinal peripheral portions spaced from the walls of said support and a peripheral portion adapted in one position of said valve to be spaced from the walls of said support and in another position of said valve to be seated upon one of said walls, one of said longitudinal peripheral portions extending outside of said support and means affording communication between the perforation of said partition wall and the space surrounding said longitudinal peripheral portions of said valve.

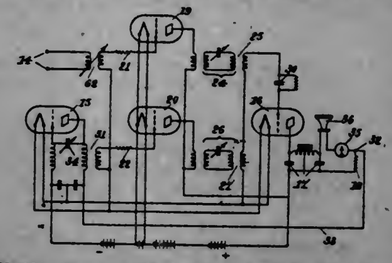
1,922,281
LAMP FOR PRODUCING ULTRA-VIOLET RADIATION
Leo H. Dawson, Washington, D. C.
Application September 29, 1931
Serial No. 565,807
11 Claims. (Cl. 250—34)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



10. A source of ultra-violet light, comprising a bulb, electrodes operatively mounted therein in spaced relation to each other, a constricted tube of less cross-sectional area than said electrodes connecting the electrodes defining a restricted discharge path the entire distance between said electrodes, and hydrogen gas in said tube.

1,922,282
SIGNAL RECEIVING SYSTEM
Henri Jean Joseph Marie de Regnauld de Bellescize, Neuilly-sur-Seine, France
Application February 24, 1932, Serial No. 594,885, and in France April 29, 1931
5 Claims. (Cl. 250—8)

1. A receiving system adapted to receive a signal consisting of an oscillation whose frequency is constant and whose phase assumes alternately two values in opposition, comprising, a local generator supplying a continuous oscillation having the same frequency as the signal oscillation, means for obtaining from the said signal oscillation a first auxiliary oscillation whose phase is constant and whose frequency is a multiple of that of the signal oscillation, means for obtaining from the continuous oscillation supplied by the local generator a second auxiliary



oscillation having the same frequency as the first-mentioned auxiliary oscillation, means for effecting the interference of the two auxiliary oscillations for producing a resulting interference current, means for controlling the frequency of the said local generator by the said interference current, and means for simultaneously impressing the signal oscillation and the continuous oscillation supplied by the local generator on the detector of the receiving system.

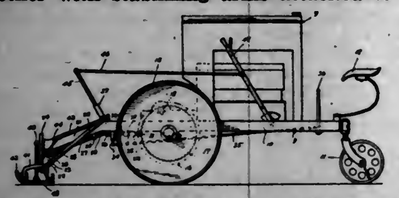
1,922,283
MANUFACTURE OF CRYSTALLINE MATERIALS
Henry Oscar Dering, Staines, England, assignor to Superfine Chemicals Limited, London, England
No Drawing. Application May 12, 1930, Serial No. 451,866, and in Great Britain May 13, 1929
2 Claims. (Cl. 23—1)

1. Process for the production of large surfaced crystals of uniform size and loose crystalline form from substances normally producing unstable supersaturated solution which includes the steps of producing a hot concentrated solution of the substances to be crystallized, cooling the solution under quiescent conditions while preventing evaporation from the surface thereof and inducing crystallization in the supersaturated solution so produced, the initial concentration of the hot solution and the temperature of crystallization being such that the degree of supersaturation induced is a high degree of labile supersaturation.

1,922,284
POWER PROPELLED MOWER
Swan P. Eckberg, Ames, Iowa
Application March 21, 1933. Serial No. 661,993
3 Claims. (Cl. 56—25)

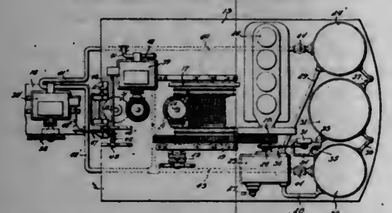
1. In a structure of the class described, in combination, a mobile support, a mower embodying a substantially horizontal longitudinally reciprocable cutter bar, ground engaging and gliding shoes at the ends of said cutter bar, U-shaped members attached to said shoes, a yoke-like lifting and lowering frame mounted for oscillation on the support and having the free ends of its arms formed with lifting fingers pivotally connected to said U-shaped members, an actuating arm carried by said frame, a manually

adjusted actuating lever on the support, an operating connection between the lever and arm, together with stabilizing arms attached to the



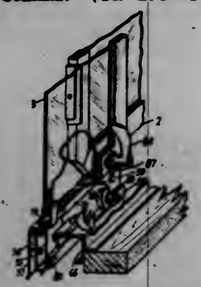
end portion of the frame and connecting chains between said arms and the aforesaid U-shaped members.

1,922,285
POWER EXCAVATOR
Walter Ferris, Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a Corporation of Delaware
Application December 30, 1927
Serial No. 243,738
6 Claims. (Cl. 214—135)



1. In a power shovel, a main frame, a boom pivotally connected thereto, a dipper and handle on said boom having elevating means therefor, forward thrust mechanism for said dipper on said boom including a hydraulic motor operatively connected with said handle, hydraulic power means for said hydraulic motor on said main frame including a pressure dome and a driving motor, said driving motor also having geared operative connection with said dipper-elevating means for positively actuating the same.

1,922,286
COMPOSITE WINDOW SASH AND SCREEN
Hans Peter Gronbech, Pacific Beach, Calif.
Application January 4, 1932. Serial No. 584,643
13 Claims. (Cl. 156—39)

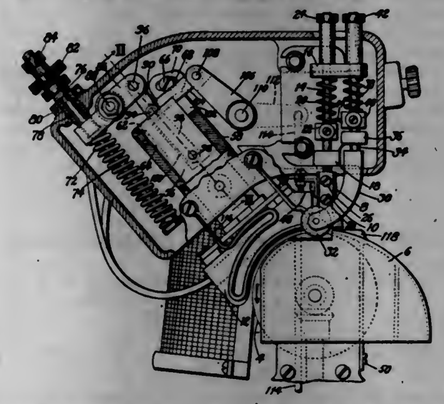


3. In a window frame construction, a sash, a carriage upon which said sash is slidingly mounted and an operating lever pivotally mounted to said sash and provided with a cam element which when manually rotated will clamp the sash in various adjusted positions to the window frame.

1,922,287
CELLULOSE ESTERS AND PROCESS OF MAKING SAME
Robert Haller, Riehen, near Basel, and Andreas Ruperti, Basel, Switzerland, assignors to firm Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application July 11, 1931, Serial No. 550,268, and in Switzerland February 28, 1930
10 Claims. (Cl. 260—101)

1. A process for esterifying cellulose whilst maintaining its structure, which consists in impregnating the cellulose with a solution of a sodium salt of a weak acid, drying and esterifying the material in the heat with an aliphatic acid anhydride in the absence of an acid catalyst.

1,922,288
SEAM PRESSING MACHINE
William Hamann, Irondequoit, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application July 6, 1928. Serial No. 290,806
19 Claims. (Cl. 223—28)

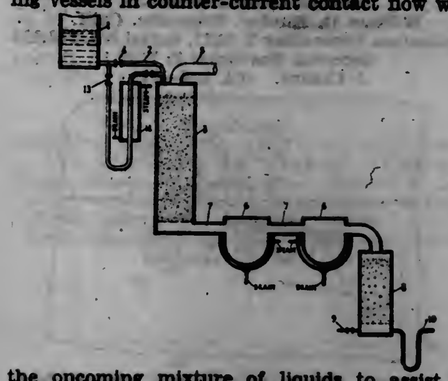


1. In a seam ironing machine, a work support an ironing block, a presser foot, resilient means normally urging said block toward said support, and means constructed and arranged to retract both the block and the presser foot without moving said resilient means.

1,922,289
PROCESS FOR CONCENTRATING NITRIC ACID
Stanley L. Handforth, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware
Application February 18, 1930. Serial No. 429,308
4 Claims. (Cl. 23—160)

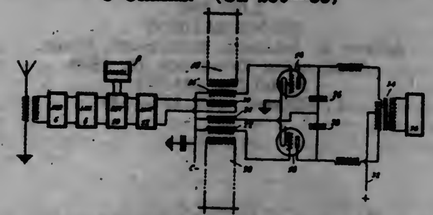
1. The process of concentrating nitric acid which comprises passing a mixture of dilute nitric acid and a dehydrating agent through a fractionating tower, driving off therefrom strong nitric acid vapors, passing the residual mixture from said fractionating tower still containing some nitric acid into a series of boiling vessels to drive off further nitric acid and to partially concentrate the dehydrating agent, passing the mixture from said boiling vessels still containing some nitric acid into a second fractionating tower so as to drive off the remaining nitric acid, and retaining all the weak nitric vapors in the system by returning them to the first

fractionating tower through the series of boiling vessels in counter-current contact flow with



the oncoming mixture of liquids to assist in heating the liquid therein.

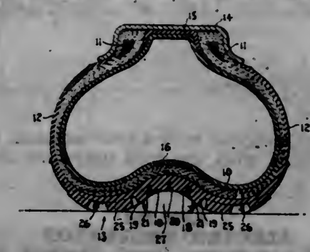
1,922,290
DETECTION OF FREQUENCY MODULATED SIGNALS
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware
Application May 14, 1930. Serial No. 452,163
3 Claims. (Cl. 250—33)



1. A system for detecting frequency modulated waves comprising a pair of electron discharge devices each having an anode a cathode and a control electrode, a reactance connected between the control electrode and cathode of each of said electron discharge devices, a transmission line, long relative to a desired operating wave length, coupled to one of said reactances for causing one of said electron discharge devices to operate at a frequency to one side of a mean desired operating frequency, another long transmission line, long relative to a desired operating wave length, coupled to said other reactance for causing said other electron discharge device to operate at a frequency on the other side of said desired mean operating frequency, means for coupling said electron discharge devices together whereby said electron discharge devices operate at said mean operating frequency, and means for applying frequency modulated energy to electrodes of said devices for rendering said devices relatively more or less conductive in accordance with the frequency of said frequency modulated energy.

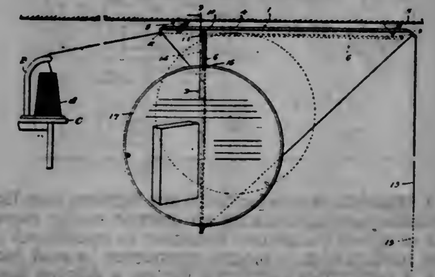
1,922,291
BALLOON TIRE
Albert Hargraves, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio
Application March 7, 1932. Serial No. 597,219
4 Claims. (Cl. 152—13)

1. The combination with a balloon tire casing having a vulcanized rubber composition tread and a fabric body portion, said tread being provided with continuous ribs and a series of traction and non-skid blocks outwardly flanking said ribs, said ribs being so spaced in relation to each other and so disposed in reference to the outwardly flanking traction and non-skid blocks



to provide between said ribs and traction and non-skid blocks open areas of dimension and contour sufficient under normal tire load and inflation conditions to permit the traction surface of the tread to substantially increase without imposing undue and destructive tension on the fabric body.

1,922,292
DEVICE TO CONTROL WRAPPING TWINE
William J. Hegrefe and Jot E. Stiles, Sacramento, Calif.
Application December 19, 1929. Serial No. 415,301
1 Claim. (Cl. 242—141)

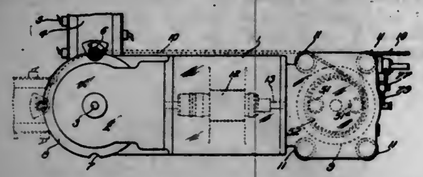


A device to control wrapping twine, comprising a horizontal stationary supporting bar mounted beneath the ceiling or other support, a pendulum-like twine controlling bar, pivotally supported from one end of the stationary supporting bar and provided in its body portion with diagonal slots disposed alternately in opposite directions and through which the free end of the twine is passed and depending ears situated at opposite ends of the supporting bar and provided with transverse openings through which the twine is passed before and after passing through the slots in the twine controlling bar.

1,922,293
MINING MACHINE
Morris P. Holmes, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts
Application July 24, 1931. Serial No. 552,936
49 Claims. (Cl. 262—30)

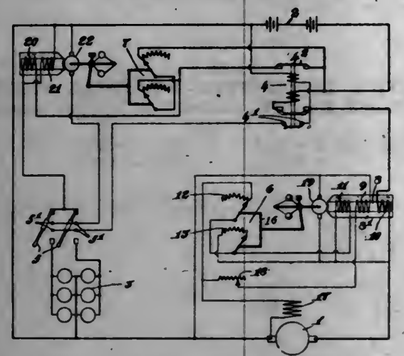
1. In a mining machine, the combination with a feed operating member adapted to cooperate directly with flexible feeding means, of motor operated driving means for said feed operating member including a fast speed gear train and a slow speed gear train, each including a drive

gear rotating about an axis lying in the longitudinal vertical center of the machine and both



drive gears meshing with a gear common to both and rotatable with the feed operating member.

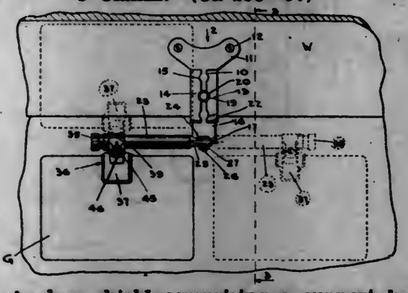
1,922,294
ELECTRIC REGULATOR
Alfred Edward Heney, Ilford, England, assignor to J. Stone & Company Limited, Deptford, England, a Company of Great Britain
Application September 3, 1931, Serial No. 561,060, and in Great Britain October 2, 1930
19 Claims. (Cl. 171—313)



1. Electric regulator for train lighting and like installations comprising an electric motor capable of speed variations sensitive to conditions in the installation, a circuit connected to said motor, a centrifugal governor device, a driving connection between said motor and governor device, principal contact means for the regulation proper, auxiliary contact means connected in said motor circuit and adapted for exerting a progressive influence upon the motor over the range of action of the regulator, and an operative connection between the governor device and each of the contact means.

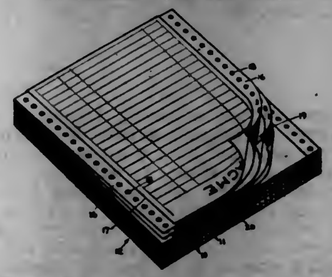
17. An electrical installation comprising a dynamo having a field circuit, a battery connected to said dynamo for being charged thereby, and a battery-charging regulator consisting of an electric motor, a permanent field magnet and an excitable field magnet for said motor, a polarizing magnetizing and a demagnetizing winding carried by said excitable field magnet and connected across the dynamo, a centrifugal governor driven by said motor, sliding brush devices actuated by said governor, contact strips over which said brush devices are caused to slide, a pair of rheostats connected to said contact strips and, through said brush devices, one in the dynamo field circuit and the other in series with the demagnetizing motor-excitation winding, whereby resistance is progressively inserted in said dynamo field circuit and removed from in circuit with said motor-excitation winding as charging proceeds.

1,922,295
INSIDE GLARE SHIELD
William O. Hunter, Riverside, Calif.
Application September 7, 1927, Serial No. 218,035
Renewed November 7, 1932
5 Claims. (Cl. 296—97)



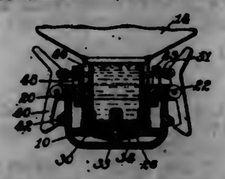
1. A glare shield comprising a support having an outstanding ear, an arm pivotally connected to the ear, a spring actuated plunger carried by the arm adapted to engage notches upon the ear to hold the arm in adjusted position with respect to the support, means for holding said plunger disengaged from the ear, and a section of semi-transparent material mounted upon said arm.

1,922,296
MANIFOLDING
Arthur A. Johnson, Bridgeport, Conn.
Application December 10, 1930
Serial No. 501,349
17 Claims. (Cl. 282—12)



4. A connected pile of superposed record strips and interleaved transfer strips, the latter having feeding bands at each side projecting beyond the adjacent edges of the record strips.

1,922,297
LIQUID CONTAINER
Arthur S. Johnson, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application January 12, 1931. Serial No. 508,087
29 Claims. (Cl. 137—68)



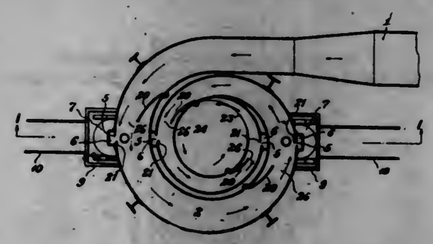
1. In combination, a receptacle, a liquid container adapted to be positioned in delivering relation to said receptacle, a rotatable valve to control the passage of liquid from the container to the receptacle, locking means movably mounted on said container for securing the container to the receptacle, and means for preventing the release of said locking means unless the valve is closed.

1,922,298
WINDOW LOCK FOR LIMITING THE OPENING DISTANCE OF WINDOW SASHES
Jasper Jones, St. Louis, Mo., assignor of one-third to Marvin Jones and one-third to Henry Jones, both of St. Louis, Mo.
Application June 23, 1931. Serial No. 546,307
5 Claims. (Cl. 292—342)



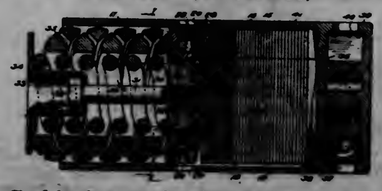
3. A window lock comprising an apertured base having a socket adjacent its lower end; and a wedge having a locking tongue and a pair of opposing projections on the tongue, said wedge adapted to have its pointed end secured in the socket of said base and the opposing projections of the tongue engaged in said aperture.

1,922,299
DUST COLLECTOR
Karl F. Juengling, Lakewood, Ohio, and Hakon A. Berg, Birmingham, Ala.
Application June 26, 1930. Serial No. 464,075
10 Claims. (Cl. 183—86)



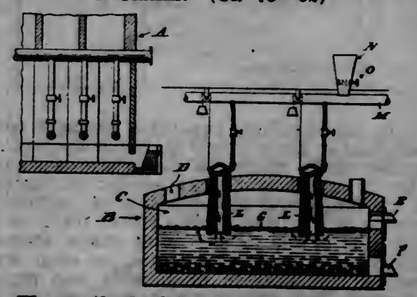
6. In a dust collector provided with means for inducing the flow of dust-laden gas; the combination of means forming a spiral conduit comprised of a plurality of communicating turns whose cross-section constantly decreases to increase the speed of the gas, a plurality of exit ports on the outer wall of said conduit to receive dust separated by centrifugal action from the gas, means adjacently forwardly of the respective exit ports for locally increasing the speed of the gas, means for carrying to a point of discharge separated dust from said exit ports, and means forming an exit from the conduit for purified gas.

1,922,300
DRAFT RIGGING
Byers W. Kadel, Baltimore, Md., assignor, by mesne assignments, to The Symington Company, New York, N. Y., a Corporation of Maryland
Application October 30, 1924. Serial No. 746,770
2 Claims. (Cl. 213—30)



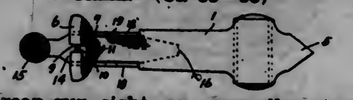
1. Cushioning mechanism including a pair of slidably connected casings, plate springs within one of said casings adapted to contact an integral portion of the other, a coil spring mechanism within said other casing, a follower engaging the free end of said coil spring, and interengaging means on said casings for preventing rotation, said means being adapted to transmit from one of said casings to the other forces in excess of the capacity of said plate springs.

1,922,301
METHOD OF TREATING LIQUID MATTE
Thomas M. Kekich, Los Angeles, Calif.
Application August 26, 1929. Serial No. 388,404
4 Claims. (Cl. 75—62)



1. The method of treating liquid matte, consisting in confining the matte in such manner as to separate the metal content thereof by gravity from the slag content and form a mass of liquid metals at the bottom of the mass and lighter constituents at the top of the mass and also form a body of slag floating on the surface of the lighter portion of the mass, and introducing downwardly into the lighter portion of the mass and at a point below the body of slag and above the liquid metals, a stream of air together with comminuted solids containing silica together with a granular combustible material having metallic constituents.

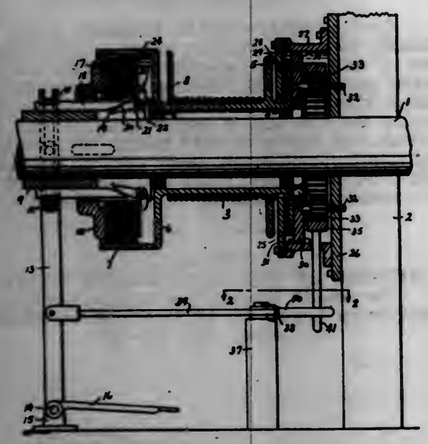
1,922,302
REAR GUN SIGHT
Dean W. King, San Francisco, Calif.
Application April 27, 1929. Serial No. 358,672
1 Claim. (Cl. 33—58)



In a rear gun sight, an upwardly-extending member having a substantially circular recess,

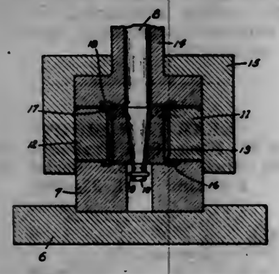
a sighting disc disposed below the bottom of the recess and having its upper edge substantially conforming to the curvature of the recess, a screw for securing the sighting disc in place and a protecting disc disposed between the screw and the sighting disc, said protecting disc having a concaved upper edge for exposing the top of the sighting disc.

1,922,303
LOAD HANDLING APPARATUS
Frank Kinzbach, Houston, Texas
Application September 19, 1930
Serial No. 483,045
8 Claims. (Cl. 188—72)



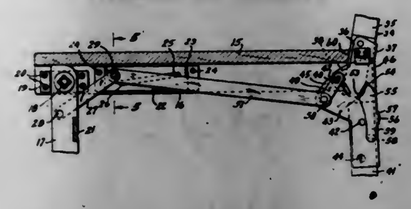
1. In load handling apparatus having a power shaft, and a drum loosely mounted thereon; an annular brake flange on the drum, a support adjacent said flange, brake mechanism embracing the flange and including a brake surface on one side of the flange and a thrust plate on the other side of the flange, screw shafts threaded through said support, a pinion on each screw shaft, a ring gear in mesh with said pinions, and means for operating the ring gear.

1,922,304
BEARING MANUFACTURE
William H. Klecke, Woodhaven, N. Y., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a Corporation of Ohio
Application May 23, 1930. Serial No. 455,094
5 Claims. (Cl. 29—149.5)



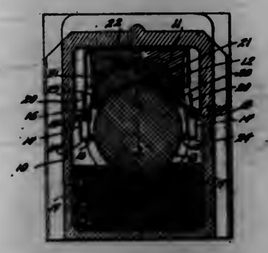
1. In the manufacture of bearings, the steps which consist in bending the end portions of a bearing shell outwardly to form flanges, grooving the outer surface of the shell adjacent said flanges, and then coin pressing said shell.

1,922,305
FOLDABLE CHAIR
John Kovats, Bridgeport, Conn., assignor to The Leg-O-Matic Company, Bridgeport, Conn., a Corporation of Connecticut
Application November 19, 1930
Serial No. 496,753
5 Claims. (Cl. 155—148)



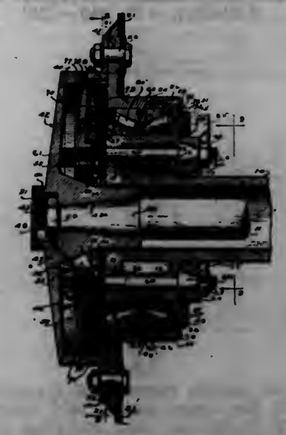
2. In a foldable chair, a seat member, front and rear legs pivotally mounted on the seat member, a back pivotally mounted on the seat member, an operating member on one of the rear legs, said operating member having a cam slot forwardly of and above the pivot for the leg, a pin on the back operating in said slot, a pin on said operating member, and a link connected at its respective ends to said pins whereby to move the leg to folded and extended positions as the back is moved to folded and extended positions.

1,922,306
HOT BOX ARRESTER
Arthur M. Krause and Jesse J. Rounds, Albany, N. Y., assignors of one-fifth to George W. Ditmore, one-fifth to Joseph G. Moore, and one-fifth to Arthur Bibb, Albany, N. Y.
Application October 15, 1931. Serial No. 569,015
10 Claims. (Cl. 308—87)



1. A journal box construction comprising a journal box into which the end of a rotatable axle extends, a bearing member and journal wedge above the axle, the bearing member contacting with the axle and the journal wedge with the top of the box, a container positioned laterally of the axle and having means to release fluid into the box when the temperature therein exceeds a predetermined degree, and means supporting said container, said means extending between the bearing member and journal wedge and being clamped therebetween.

1,922,307
BRAKE
Homer T. Lambert, Huntington, W. Va.
Application January 25, 1928, Serial No. 249,332
Renewed March 22, 1930
18 Claims. (Cl. 188—72)

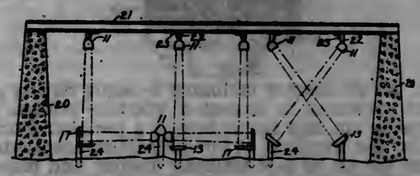


1. In braking mechanism, the combination, with a supporting axle and a wheel journaled thereon, of a brake for the wheel located outward beyond the end of the axle.

1,922,308
PROCESS FOR IMPROVING VEGETABLE TEXTILE MATERIALS
Leon Lilienfeld, Vienna, Austria
No Drawing. Application May 29, 1929, Serial No. 367,152, and in Austria June 18, 1928
4 Claims. (Cl. 8—20)

1. A method of treating vegetable fibrous material which comprises contacting the same with an alkali metal sulphide solution of not less than 25 per cent. strength at a temperature of not less than 100° C.

1,922,309
LUMINOUS SIGN
William W. Lillard, Ridgewood, N. J.
Application May 29, 1930. Serial No. 457,379
7 Claims. (Cl. 40—130)



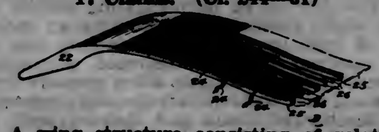
2. In a luminous sign, in combination, a lamp and reflector unit arranged for producing and reflecting a ray of light at a desired point, a second lamp and reflector unit arranged for reflecting a ray of light at said point, and a member effective for arresting both of said rays, said units positioned relative to each other so that said rays of light cooperate to form a character element of said sign, said arresting member having means to prevent glare and spreading of said rays, said means including a wall-like element around the area on said member engaged by said rays.

1,922,310
MINE CAR
Armistead R. Long, Scarbro, W. Va.
Application November 16, 1928
Serial No. 319,890
11 Claims. (Cl. 213—220)



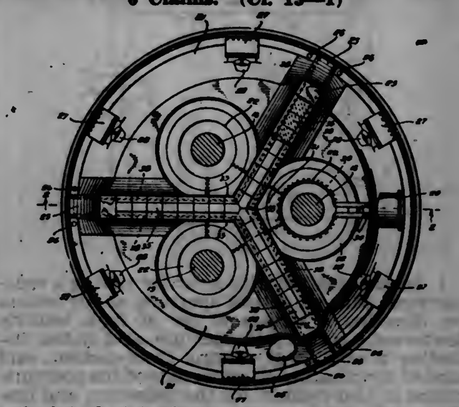
1. In a mine car bumper and end sill construction the combination with a mine car frame including side beams, of an end supporting wall secured at its ends to the ends of the side beams, upper and lower angle members each including an upright flange and a horizontal flange, the upright flanges of said angle members being overlapped one upon the other and both overlapping upon the end wall and all secured together in a rigid reinforcing riveted relation with the horizontal flanges thereof relatively spaced, and a cushioning filler piece between said horizontal flanges of the angle members and extending beyond the outer edges of said horizontal flanges.

1,922,311
AEROPLANE WING STRUCTURE AND METHOD OF MAKING THE SAME
Victor Lougheed, Washington, D. C.
Application April 6, 1931. Serial No. 528,108
17 Claims. (Cl. 244—31)



1. A wing structure consisting of relatively-narrow substantially-parallel closely-spaced flexible bands supported in rib-like members having transverse curved slots therein holding said bands to a desired curvature and location.

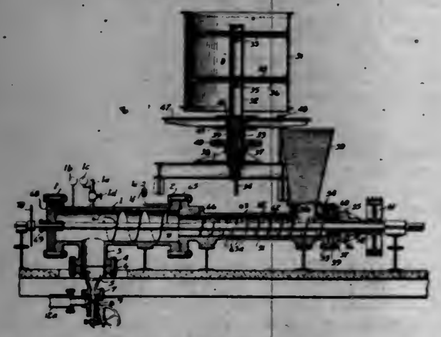
1,922,312
ELECTRIC FURNACE
Ralph G. Mansfield, La Salle, N. Y., assignor to Union Carbide Company, a Company of Virginia
Application January 23, 1932. Serial No. 588,419
6 Claims. (Cl. 13—1)



1. An electric furnace comprising side walls and a cover, said cover being provided with aper-

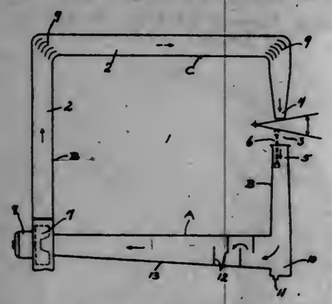
tures for the electrodes, said furnace further including tubular members forming almost a complete circle and disposed adjacent the electrode apertures, said circle normally being larger than the electrode apertures, said tubular members being capable of deformation whereby they will pass through said apertures.

1,922,313
PROCESS AND APPARATUS FOR DISINTEGRATION OF MATERIAL
William H. Mason, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a Corporation of Delaware
Application June 27, 1931. Serial No. 547,259
31 Claims. (Cl. 92—1)



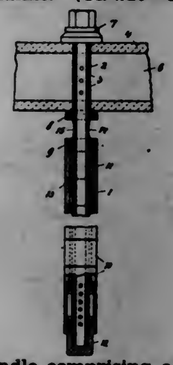
1. The process of disintegrating porous material which comprises maintaining an inclosed body of high pressure steam, forcing into said body material to be disintegrated, continuously discharging therefrom into a low pressure region steam and such material, continuously separating such discharged steam and disintegrated material, and condensing said steam.

1,922,314
DEFLECTOR
John A. McCrary, Seminary Hill, Va.
Application June 8, 1932. Serial No. 616,089
6 Claims. (Cl. 20—40.5)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



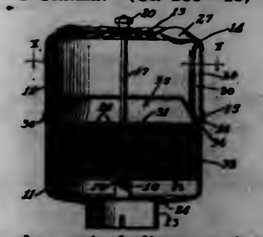
1. In combination with a carrier having a compartment with an optical aperture, an air system for directing a stream of air of high velocity downwardly across said aperture, said system including a conduit of varying cross-section, said conduit terminating on either side of the aperture, means in said conduit for the collection and discharge of entrained water, and means for producing a circulation of air through the conduit.

1,922,315
FILTER CANDLE
Wilhelm Moos, Staasfurt, Germany, assignor to Kali-Chemie Aktiengesellschaft, Berlin, Germany
Application November 20, 1930, Serial No. 497,052, and in Germany November 22, 1929
2 Claims. (Cl. 210—121)



1. A filter candle comprising a carrying tube, a collar on the upper end of said carrying tube, means for fastening said carrying tube in a filter and for pressing said collar against a wall part of the filter, a second collar on said carrying tube arranged in spaced relation below said first collar, the walls of at least a part of said carrying tube between said collars being of less thickness than the walls of the remaining portion of the tube, filter rings arranged on said carrying tube below said second collar, and detachable means on said carrying tube carrying said filter rings and pressing them against said second collar.

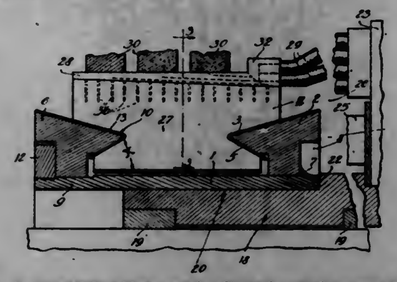
1,922,316
AIR CLEANER
Thomas G. Moulding and John T. Beatty, Chicago, Ill., assignors, by mesne assignments, to Ross J. Beatty, Highland Park, Ill.
Application July 9, 1930. Serial No. 466,635
4 Claims. (Cl. 183—48)



1. An air cleaner including a casing having an inlet arranged to impart a whirling motion to entering air, said casing having a peripheral outlet for the discharge of foreign particles separated from the air by said whirling motion, and means for creating a rearward suction adjacent said outlet on the far side thereof in the direction of whirl.

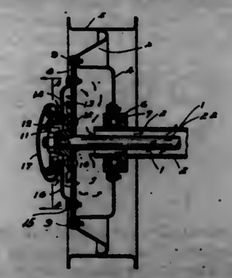
1,922,317
COMMUTATOR
Charles A. Mudge, Elizabeth, N. J., assignor to Electro Dynamic Company, Bayonne, N. J., a Corporation of New Jersey
Application February 1, 1930. Serial No. 425,143
10 Claims. (Cl. 171—321)

1. A commutator comprising a plurality of insulated segments, means clamping the segments together, insulation between the segments and said clamping means, said segments and said clamping means being composed of materials having substantially the same coefficients of expansion, whereby the stress in the insulation is not appreciably altered upon expansion of the members by increase of temperature, and a layer of metal of high electric conductivity secured to the outside of each of the segments, each of said layers varying in thickness throughout its length in proportion to the current which it is required to carry.



3. In combination, a shaft, a barrel comprising a plurality of rings, spaced bars connecting said rings and forming lands upon said shaft, and a commutator having a tubular frame member embracing and supported upon said bars.

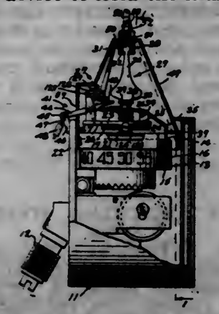
1,922,318
AIR COOLED BRAKE
Jentje Mulder, Detroit, Mich.
Application September 3, 1929. Serial No. 390,061
7 Claims. (Cl. 188—264)



1. The combination with a vehicle wheel having a brake drum with spaced side walls and formed in the outer of said walls with a plurality of air inlets, of a dust and moisture guard secured to said outer wall, covering said openings and dished to form a passage for flow of air to said openings and centrally apertured to admit air to said passage.

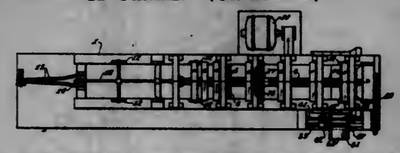
1,922,319
SPEEDOMETER STOP MECHANISM
Wladimire J. Obidine, Los Angeles, Calif.
Application November 27, 1931
Serial No. 577,491
46 Claims. (Cl. 116—57)

1. In a speedometer having means to indicate the speed of a vehicle, a locking mechanism for the indicator having a displaceable device, means to mount said device to withstand displacement by jolts or jars substantially vertical when the speedometer is in its normal operating position but displaceable by shocks or jars transverse or lateral to such position, and means to operate the locking mechanism on displacement of the displaceable device to hold the indicator station-



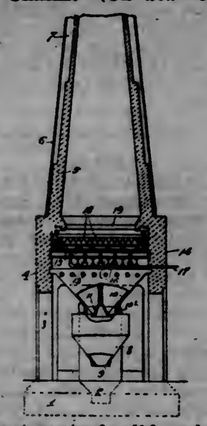
ary indicating the approximate speed at the time of displacement.

1,922,320
METHOD AND APPARATUS FOR DETERMINING THE INTERIOR BALLISTIC CHARACTERISTICS OF FIXED AMMUNITION
Franklin W. Olin, John M. Olin, and Robert G. Clyne, Alton, Ill., assignors to Western Cartridge Company, East Alton, Ill., a Corporation of Delaware
Application February 2, 1928. Serial No. 251,303
41 Claims. (Cl. 234—1)



1. A method of determining the interior ballistic characteristics of fixed ammunition, comprising, igniting the charge in a barrel and causing the charge to indicate its arrival successively at a number of points along the barrel.

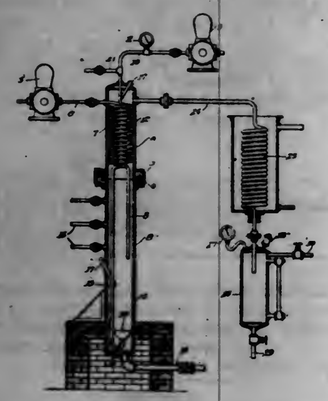
1,922,321
METHOD OF EXTRACTING THE VOLATILE CONSTITUENTS FROM CARBONACEOUS MATERIALS
Richard B. Parker, Englewood, N. J., assignor to Samuel E. Darby, trustee, New York, N. Y.
Application December 14, 1926, Serial No. 154,695. Renewed June 29, 1933
2 Claims. (Cl. 202—6)



1. In the treatment of solid carbonizable fuels to extract gases therefrom, the method of pre-

venting channeling comprising forming a column of fuel, maintaining a heated zone in said column at the base thereof to extract the volatile constituents thereof, supplying a gas at any of a plurality of desired points near the base of the column and removing the resultant gases products near the top of the column at a point which causes diffusion of the gases through the column in their upward travel.

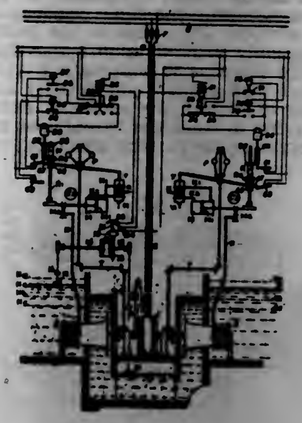
1,922,322
METHOD OF CRACKING HYDROCARBON OILS
William B. D. Penniman, Baltimore, Md.
Application March 6, 1922, Serial No. 541,525
Renewed August 3, 1927
8 Claims. (Cl. 196—65)



1. A process of cracking heavy hydrocarbon oil under pressure and a maintained cracking temperature, which consists in injecting air into the body of oil, collecting carbon resulting from the cracking adjacent to the point of air injection, and maintaining the cracking temperature of the oil by the heat resulting from combustion of the carbon and air.

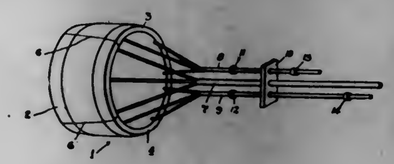
1,922,323
HYDRAULIC INSTALLATION
Arnold Pfau, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware
Application May 18, 1928. Serial No. 278,886
15 Claims. (Cl. 137—158)

1. A hydraulic power unit for operation under conditions of variable effective head, comprising a plurality of hydraulic turbines designed for most efficient operation under different heads, a power translating unit operatively connectible to said turbines to be driven thereby, regulating means operatively associated with said turbines for causing either one alone or both of said turbines to effectively drive said power translating unit, and means automatically responsive to the energy



available at the turbine inlet for controlling said regulating means.

1,922,324
REMOVABLE CHILL RING FOR PIPE WELDING
Harold C. Price and Donald R. Redding, Bartlesville, Okla., assignors to H. C. Price, Inc., Bartlesville, Okla., a Corporation
Application May 4, 1932. Serial No. 609,296
2 Claims. (Cl. 113—103)

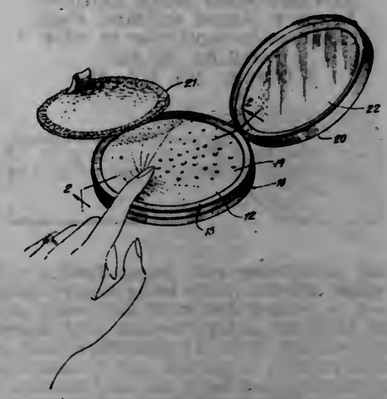


1. A backing-up device for use in welding tubular articles comprising an annular ring divided into complementary sections with at least one pair of complementary wedging faces, manipulating arms secured to respective sections, a stop member secured to one of said arms and slidably engaging the other arms, and stop members on said last-named arms for engagement with said first-named stop member.

1,922,325
MANUFACTURE OF PAPER
Harold Robert Raften, Andover, Mass., assignor to Raffold Process Corporation, a Corporation of Massachusetts
No Drawing. Application December 11, 1930
Serial No. 501,674
42 Claims. (Cl. 92—40)

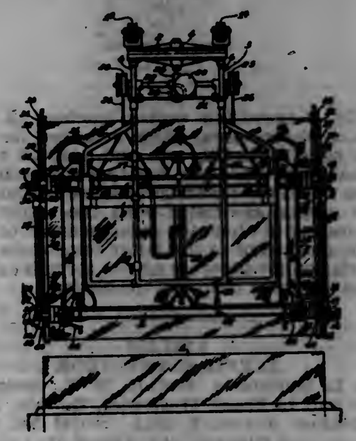
1. The method of manufacturing sized paper filled with alkaline filler comprising the inclusion in a fibrous web containing alkaline filler of substantially water-insoluble precipitated sizing material, said inclusion taking place subsequent to the point of delivery to a web-forming device of the fibrous mix from which said web is formed, and the subsequent drying of said web.

1,922,326
COMPACT
Houston A. Rauber and Benjamin T. Rauber, Montclair, N. J.
Application October 1, 1932. Serial No. 635,736
4 Claims. (Cl. 132—83)



1. A compact comprising a shallow powder container presenting a relatively large dispensing area, and a diaphragm covering such dispensing area composed of elastic, flexible, porous material of a character normally to retain the powder, but to permit dispensing thereof, upon distortion by a wiping pressure thereagainst.

1,922,327
SHEET GLASS APPARATUS
Joseph H. Redshaw, Homestead Park, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania
Application June 29, 1932. Serial No. 619,862
19 Claims. (Cl. 49—50)



1. In combination in apparatus for handling and trimming glass sheets cut from a continuous sheet or ribbon emerging from a vertical leer, a conveyor frame mounted above the leer for lateral movement, a vacuum frame provided with vacuum cups carried by the conveyor frame, and severing devices carried by the vacuum frame and adapted to trim off the vertical side edges of the glass sheet supported by the vacuum frame.

1,922,328
PROCESS OF PREPARING SYNTHETIC RUTILE TITANIUM DIOXIDE
Herbert L. Rhodes, Oakland, Calif.
No Drawing. Application December 23, 1931
Serial No. 582,880
11 Claims. (Cl. 23—202)

1. A process for producing a rutile seeding crystal comprising combining an alkali metal titanate and a halogen acid to form a neutral mix, using methyl orange as an indicator.

1,922,329
ROCK DRILL
Led L. Richardson, Cleveland, Ohio, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio, a Corporation of Ohio
Application March 5, 1930. Serial No. 433,345
1 Claim. (Cl. 121—7)

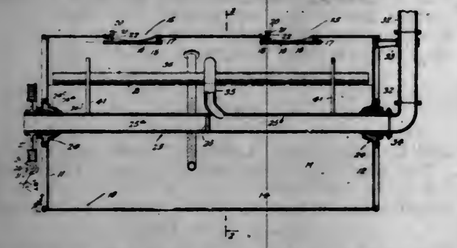


In a pneumatic drill having a cylinder and a piston reciprocable therein, a tubular extension having a shoulder formed therein and being rigidly joined to the cylinder, a sleeve rotatably mounted within said extension and arranged to abut said shoulder formed therein to prevent longitudinal movement of said sleeve in one direction, means carried by the sleeve and cooperating with the piston to turn the sleeve with the piston, an anvil carried in the sleeve, a chuck extending into the bore of the sleeve and forming a substantially rigid unit therewith, said chuck having a flange intermediate its ends and ears homogeneously formed with the body of said chuck and with said flange, said ears being adapted for interlocking engagement within recesses formed in the end portions of the sleeve, the outer surfaces of said flange and ears having a running fit within said tubular extension, said extension having a shoulder within its end portion to receive and support the said chuck flange, said chuck having a passage therethrough adapted to closely fit and rotatively drive a drill throughout the length of the chuck.

1,922,330
MATERIAL HANDLING APPARATUS
Evelyn G. Robinson, New York, N. Y.
Application January 27, 1931. Serial No. 511,462
10 Claims. (Cl. 202—53)

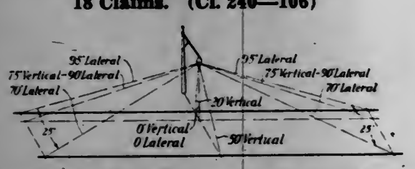
1. A material-handling apparatus comprising a receptacle adapted for the reception of mate-

rial to be removed therefrom, a rotatable and horizontally disposed discharge conduit leading from said receptacle, a pick-up pipe disposed within said receptacle and connected to and communicating with said conduit, means for effecting the passage of a fluid through said pick-up pipe and said conduit whereby material is caused



to enter said pick-up pipe and pass therefrom through said discharge conduit, and means for rotating said discharge conduit whereby said pick-up pipe is correspondingly moved to maintain a functional relation between said pick-up pipe and the material to be removed as the latter ter recedes.

1,922,331
LUMINAIR
Thomas W. Rolph, Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y., a Corporation of Delaware
Application September 23, 1932
Serial No. 634,452
18 Claims. (Cl. 240—106)



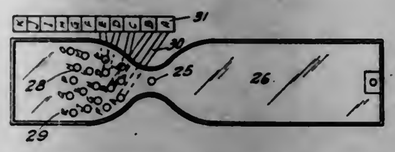
1. A refractor, one section of which concentrates light vertically and laterally, while another section concentrates light laterally only, by means of two sets of parallel prisms carried on opposed surfaces of the refractor.

1,922,332
ELECTRIC HAND FLASH LIGHT
James L. Shannon, Springfield, Mass., assignor, by mesne assignments, to Blake Manufacturing Corporation, Springfield, Mass., a Corporation
Application March 11, 1930. Serial No. 434,940
5 Claims. (Cl. 240—10.69)



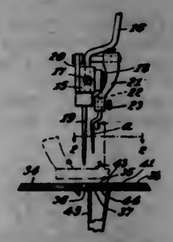
1. Means in an electric hand lamp, having a battery enclosing metal casing formed with threads at each end, an electric bulb, a reflector, and a cap member having unmutilated threads and carrying the reflector, for adjusting and retaining the reflector in any position relative to the electric bulb for focusing purposes, said means comprising slotted and struck-up portions of some of the threads on the casing and which threads are engaged by the said unmutilated threads on the cap member carrying the reflector.

1,922,333
ADVERTISING GOLF COURSE
Joseph F. Shawl, Oakland, Calif.
Application September 30, 1930
Serial No. 485,393
6 Claims. (Cl. 273—32)



2. An advertising golf course having a final hole court, the final hole being located in a restricted, depressed portion of said court, an upwardly inclined portion beyond said depressed portion having a series of irregularly spaced holes, a similar number of pockets and communicating means between said holes and said pockets, said final hole and depressed portion forming a trap against the series of holes.

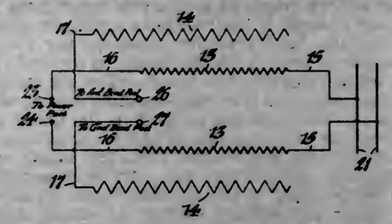
1,922,334
THREAD-REMOVING MECHANISM FOR HEMSTITCHING MACHINES
Victor J. Sigeda, Brooklyn, N. Y.
Application February 4, 1932. Serial No. 590,832
15 Claims. (Cl. 112—78)



1. In a hemstitch sewing-machine, a throat plate, a piercer-shear blade arranged for movement with respect thereto and adapted to draw threads from the fabric, shear means on the blade across which the drawn threads are extended, and shear means associated with the throat plate, with respect to which the shear means of the blade on the movement of the latter comes into shearing relation for shearing off the threads extended across the shear means of the blade.

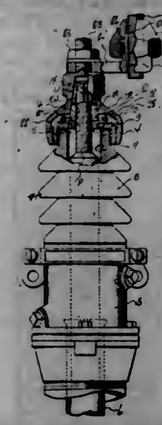
1,922,335
AERIAL ELIMINATOR
Felix L. Sobocinski, Buffalo, N. Y., assignor of one-half to Frank Wojtowicz, Buffalo, N. Y.
Application August 7, 1931. Serial No. 555,724
2 Claims. (Cl. 179—2.5)

1. An aerial eliminator for electric radio receiving sets comprising, in combination with a source of electrical energy, two coils each including a primary winding connected to said source of electrical energy and with the power line of the set, and a secondary winding in inductive relation to the primary winding, the secondary winding of one coil being connected at one end to the antenna connection of the radio receiving apparatus and the companion winding of the other coil being connected at one end to the



ground connection of said apparatus, the other end of said secondary winding being dead.

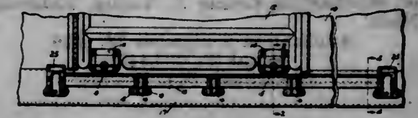
1,922,336
POTHEAD
Alwin G. Steinmayer, Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a Corporation of Delaware
Application February 12, 1930. Serial No. 427,803
8 Claims. (Cl. 173—353)



1. In a pot head having a tubular outlet member, a cable conductor having a portion within the tubular outlet member and a terminal member, means for connecting the terminal member with the cable conductor comprising, a sleeve engageable with the cable conductor, readily removable means for supporting the sleeve in operative position from the tubular outlet member, means on said support cooperating with means on said sleeve to prevent relative rotation therebetween, means for connecting the terminal member with the tubular outlet member, and means whereby the connection of the terminal member with the tubular outlet member cooperates with the removable means for supporting the sleeve to wedge the same between the terminal member and the conductor.

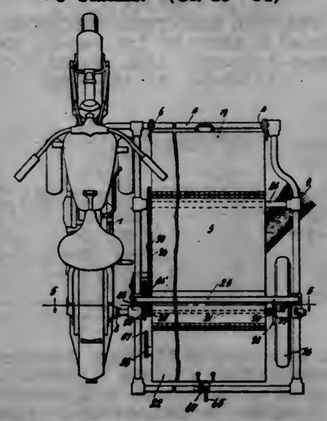
1,922,337
TRACK AND SUPPORT THEREFOR
Kenneth J. Tobin, Chicago, Ill., assignor to Camel Company, Chicago, Ill., a Corporation of Illinois
Application July 20, 1931. Serial No. 551,910
2 Claims. (Cl. 16—94)

1. In combination, a track, brackets for supporting said track, said brackets comprising portions embracing a vertically positioned flange of said track, a horizontal flange extending from said vertical track flange intermediate the edges thereof, one of said portions cooperating with a bracket flange to embrace said horizontal track



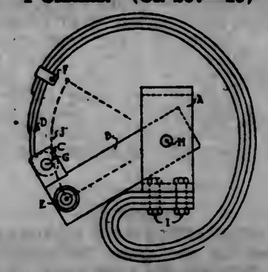
flange, and means provided on said brackets for abutting the underside of the tread of said track to reinforce said tread against transverse bending.

1,922,338
STREET SWEEPER
George B. Weaver, Springfield, Mass., and William J. Knaut, New Haven, Conn., assignors to Indian Motorcycle Company, Springfield, Mass., a Corporation of Massachusetts
Application December 16, 1931
Serial No. 581,398
8 Claims. (Cl. 15—84)



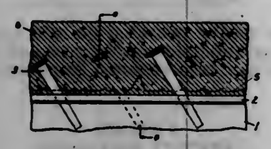
1. In combination a motorcycle provided with a side car including a supporting frame and street sweeping mechanism operatively mounted in said side car frame.

1,922,339
SUSPENSION SPRING DEVICE
William Prentiss Woolley, Jackson, Miss.
Application April 16, 1931. Serial No. 530,468
4 Claims. (Cl. 267—19)



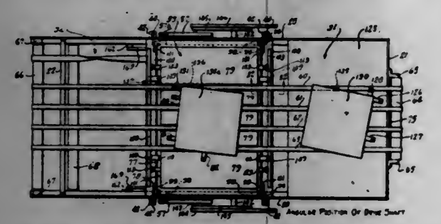
1. In a device of the character described a circular spring member the lower end thereof being in a "goose-neck" shape and bolted to a carrying member, and a link pivoted on the carrying member and extending to and in attachment with the opposite end of the spring member, substantially as described.

1,922,340
CONCRETE CONSTRUCTION
Howard F. Young, Kalamazoo, Mich., assignor of one-half to Leonie S. Young, Kalamazoo, Mich.
Application September 22, 1930
Serial No. 483,440
12 Claims. (Cl. 72—70)



11. The combination in a metal joist having a T head, wedge-shaped prongs inserted into corresponding apertures in the flanges of the said T head and wedging thereunto.

1,922,341
STENCIL PRINTING MACHINE
Richard B. Aldcroft, Los Angeles, Calif.
Application January 2, 1932. Serial No. 584,437
23 Claims. (Cl. 101—123)

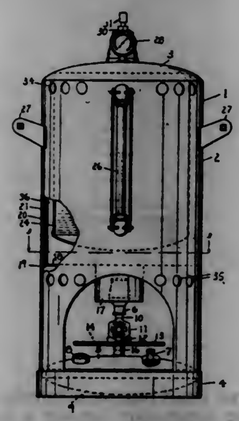


18. An apparatus of the class described, having in combination: a frame; a horizontal stencil supported by the frame, said stencil having a printing pattern positioned oblique to the alinement of the frame; a vertically movable platen supported by the frame under the stencil in parallel spaced relation thereto; means to move the platen upward against the stencil for a limited period; a squeegee movably associated with the stencil; means to move the squeegee across the surface of the stencil during said period; continuously operating conveyor means to carry stock across the platen, said means being adapted to be displaced upward with the platen; guides extending upward from the platen to engage stock on the conveyor in proper registry with the stencil during said period, said guides being in converging alinement corresponding to the oblique position of the stencil pattern; means to delay the lowering of the conveyor means after said period, thereby releasing stock from the guides to the conveyor; and feed guides to position blank stock on the conveyor at greater obliqueness than the alinement of the platen guides.

1,922,342
POLYMERIZATION OF COUMARONE
George Kenneth Anderson, Pittsburgh, Pa., assignor to The Neville Company, a Corporation of Pennsylvania
No Drawing. Application February 13, 1932
Serial No. 592,854
10 Claims. (Cl. 260—7)

1. The herein described catalytic polymerization method for the production of coumarone resins comprising the preparation of a batch containing a relatively small percentage charge of crude solvent naphtha and a relatively large percentage charge of hydrocarbon distillate diluent, establishing heat transfer relations for the abstraction of heat from the batch to control reaction temperature in the batch, effecting catalytic polymerization of the resin-forming bodies of the crude solvent naphtha present in the batch controlling the temperature of the polymerizing reaction by heat abstraction from the batch, after substantial completion of such polymerization step introducing to the existing batch a succeeding small percentage charge of crude solvent naphtha, and effecting integral catalytic polymerization of this succeeding charge in the presence of the pre-existing batch.

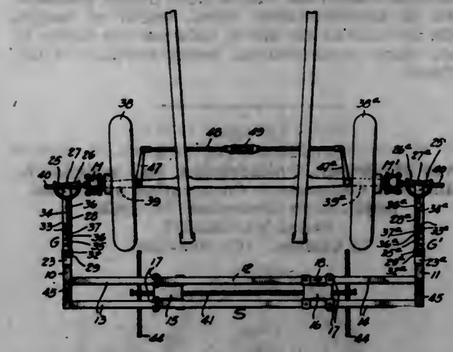
1,922,343
PORTABLE STEAM GENERATOR
John W. Anderson, South Bend, Ind., assignor to General Sheet Metal Works, Inc., South Bend, Ind.
Application July 9, 1931. Serial No. 549,717
4 Claims. (Cl. 122—23)



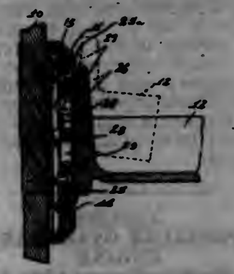
4. A device of the character described, comprising an outer casing, a chimney having a supporting flange extending to said casing and secured thereto, an inner casing having an end flange at its lower end extending to said outer casing, the top of the inner casing being spaced below the top of the outer casing with the bottom resting on said chimney flange, insulation disposed in the space between said inner and outer casings, and a top for said outer casing having a flange telescoped in the upper end of said outer casing and secured thereto.

1,922,344
GAUGING INSTRUMENT FOR VEHICLE WHEELS
Walter Bagge, Los Angeles, Calif.
Application September 30, 1929
Serial No. 396,255
15 Claims. (Cl. 33—203)

13. A gauging instrument of the character described comprising two indicating devices each having two co-acting parts, means for mounting one part of each indicating device for movement with the steering spindles of an axle in response to steering movement of the spindles, a support on which the other part of each device is mounted, and means for pivotally mounting the support on the spindles.



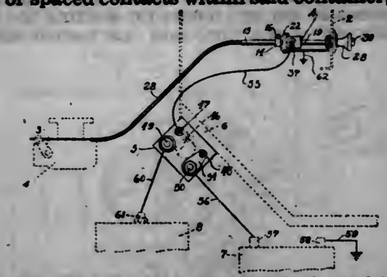
1,922,345
BATHROOM FIXTURE
Walter G. Bauch, Chicago, Ill., assignor to Bauch Porcelain Products Co., Chicago, Ill., a Corporation of Illinois
Application February 15, 1932. Serial No. 592,997
4 Claims. (Cl. 248—20)



1. A bathroom fixture comprising a base plate adapted to be secured to a supporting structure and having a seating surface, a body portion adapted to seat on said surface, a member on said base plate having an inclined surface, and means carried by said body portion arranged to be engaged by said inclined surface to move the body portion to seating position in response to relative movement between the base plate and body portion, said seating surface having a beveled portion, whereby said relative movement causes a tilting of the body portion in such a manner that the upper edge of the body portion is moved into engagement with the seating surface.

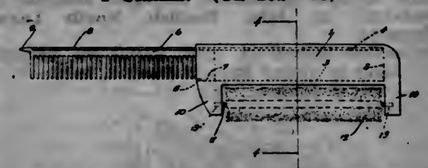
1,922,346
CHOKE AND STARTER SWITCH CONTROL
Fay Beal, Kokomo, Ind., assignor to Kingston Products Corporation, Kokomo, Ind., a Corporation of Indiana
Application October 25, 1929. Serial No. 402,367
4 Claims. (Cl. 123—179)

1. In a starting device for engines having a carbureter inclusive of a choke valve and a starting motor and electrical circuit therefor; a supporting bracket having upturned ends, each end having an aperture therein, a container trunnioned in said apertures for movement between said upturned ends, said container being adapted for connection to a carbureter choke valve, a pair of spaced contacts within said container, and



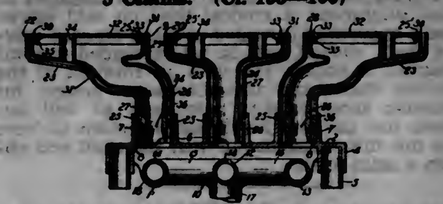
means whereby the contacts may be brought into engagement for closing an electrical circuit.

1,922,347
POCKET COMB AND BRUSH
Louis H. Bear, Chicago, Ill.
Application November 3, 1932. Serial No. 640,987
4 Claims. (Cl. 132—86)



1. In a comb and brush combination, a case formed with a median line cavity extending longitudinally from one closed end to the opposite open end, a comb slidably arranged in said cavity, and a rotary brush carried by said case.

1,922,348
BURNER
Vernon S. Beck, Winfield, Kans.
Application August 12, 1931. Serial No. 556,754
5 Claims. (Cl. 158—106)

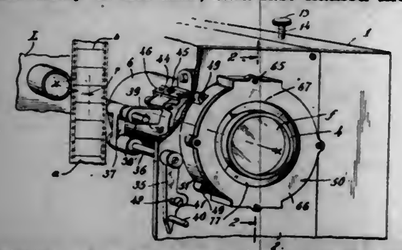


3. A gas burner including a frame, burner head supporting means on the frame, burner heads supported in said means comprising head portions having substantially enclosed mixing chambers therein and provided with peripheral gas outlets, means for admitting a gas mixture to the mixing chambers, and means for discharging secondary combustion supporting air about said gas outlets.

1,922,349
MOTION PICTURE PROJECTING MACHINE
Michael Berkowitz, New York, N. Y., assignor to United Research Corporation, Long Island City, N. Y., a Corporation of Delaware
Application August 5, 1930. Serial No. 473,174
9 Claims. (Cl. 88—24)

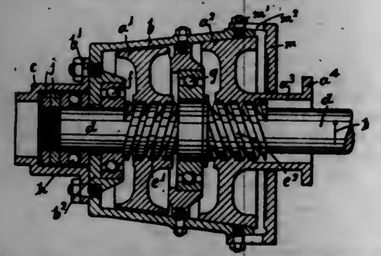
1. In a motion picture projector having a wall and in which a film is adapted to pass in a vertical fixed path in front of a light source, the combination of a projecting lens, a holder for receiving

the lens and arranged to be guided in a path transversely of the film, means for imparting movement to the lens holder for shifting the lens transversely of the film, said last named means



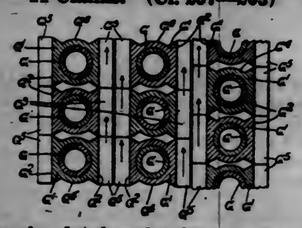
consisting of a lever operatively connected to the lens holder and designed for manual operation, and means for mounting said lever on the wall of the projector.

1,922,350
AUTOMATIC FRICTION CLUTCH
Arthur Bolton, Gateshead, England, assignor of one-half to John English, North Leam, England
Application March 31, 1930, Serial No. 440,210, and in Great Britain April 8, 1929
5 Claims. (Cl. 192—48)



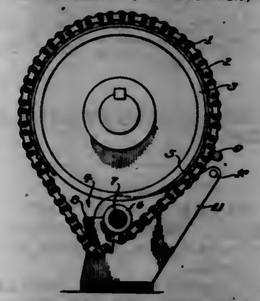
1. An automatic free-wheel clutch comprising a driving shaft and a driven shaft disposed in axial alignment, a conical shell on said driven shaft, oppositely threaded sections on said driving shaft, conical nuts on said threaded sections adapted to engage the shell on rotation of the driving shaft, and non-automatic means for bringing about relative movement at will between one nut and its threaded section to force the nut into engagement with the shell and obtain a solid drive.

1,922,351
TUBE FOR BOILER ECONOMIZERS, HEAT EXCHANGERS, AND THE LIKE
Roger Stuart Brown, Chicago, Ill.
Original application January 21, 1929, Serial No. 333,890. Divided and this application January 2, 1932. Serial No. 584,395
11 Claims. (Cl. 257—263)



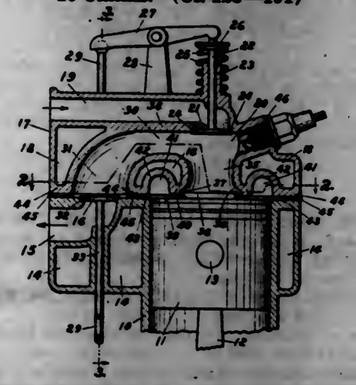
1. A bank of tubes for heat exchangers and the like, each tube including an interior cylindrical tube, and a separately formed exterior jacket tube positioned thereabout in heat conductive relationship therewith whose sides define passageways of approximately equal width at points along the line of gas travel between the banks of tubes, such measurement being normal to the surfaces.

1,922,352
CONTROL DEVICE
Jerrus M. Bryant, Philadelphia, Pa., assignor to Link-Belt Company, a Corporation of Illinois
Application December 18, 1930
Serial No. 503,177
15 Claims. (Cl. 188—82)



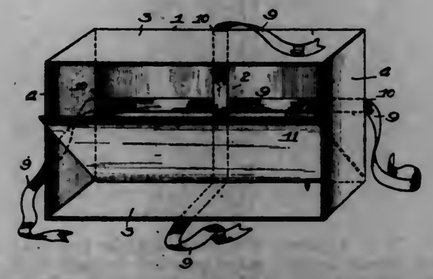
1. An automatic one-way brake comprising a brake wheel, a resilient metallic band constructed to conform to the contour of said wheel and encircling a portion of the circumference of the same, a bell crank lever secured to a relatively stationary support and having effective lever arms of unequal length, and limp means for connecting the respective ends of said band to the long and short lever arms, respectively, of said bell crank lever.

1,922,353
SUPERPRESSURE OVERHEAD VALVE ENGINE
Frank A. Bullington, Kansas City, Mo., assignor to Bullington Engine Heads, Kansas City, Mo., a common law trust consisting of Louis E. Ash, Howard P. Treadway and Frank A. Bullington
Application February 20, 1928, Serial No. 255,659
Renewed December 14, 1932
16 Claims. (Cl. 123—191)



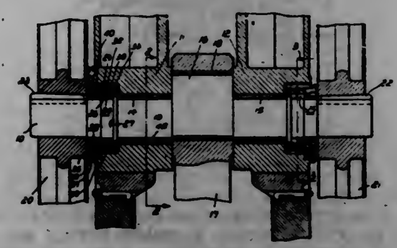
1. In an engine of the character described, a cylinder, and a cylinder head having a primary combustion chamber comprising an inlet valve pocket and opening into said cylinder an inlet valve in said pocket, ignition means between said inlet valve and said opening into said cylinder, and a secondary combustion chamber surrounding said opening, said secondary combustion chamber being open to the cylinder, but being otherwise permanently closed.

1,922,354
BOX CONSTRUCTION
Hubert H. Burke, Chicago, Ill., assignor to The Package Box Company, a Corporation of Illinois
Application November 30, 1931
Serial No. 577,911
2 Claims. (Cl. 229—46)



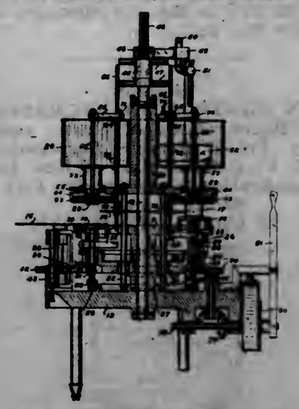
1. In a box, a lower container section comprising a base and enclosing walls with openings in oppositely disposed walls close to said base and in alignment with each other, a tape resting upon the inner surface of said base and extended through said openings, so as to provide tying means for a cover complemental to said base, and anchoring means for said tape consisting of a separate false bottom having a surface area attached to the inner surface of said base, so as to clamp the tape between them, said false bottom having edges abutting oppositely disposed walls of the container section and so positioned within said container section as to permanently close said openings with a weather tight seal.

1,922,355
SHAFT BEARING
Arthur A. Byerlein, Detroit, Mich., assignor to General Machinery Corporation, Hamilton, Ohio, a Corporation of Delaware
Application July 18, 1931. Serial No. 551,598
9 Claims. (Cl. 308—35)



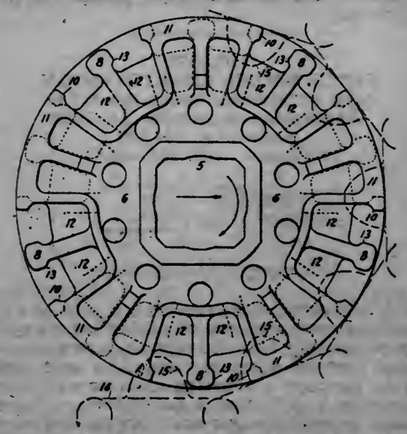
1. A shaft bearing construction comprising a shaft, a bearing for rotatably supporting said shaft with sliding friction, a second bearing for rotatably supporting said shaft with rolling friction, and means supporting said bearings so that one bearing is ineffective for thrust loads in one direction, while the other bearing is ineffective for thrust loads in a different direction.

1,922,356
LIQUID DISPENSING MACHINE
Frank D. Chapman, Berlin, Wis.
Application June 6, 1932. Serial No. 615,552
8 Claims. (Cl. 226—98)



1. In combination, a series of can supports movable about an axis, a liquid supply tank disposed above said supports, a valve for controlling delivery of liquid from said tank toward each of said supports, a sealing block disposed adjacent to each of said valves, means for elevating said supports to bring the cans carried thereby into contact with said blocks, means for permitting relative displacement of said supports and said elevating means when said cans are seated against said blocks, and means for utilizing said relative displacement to actuate said valves.

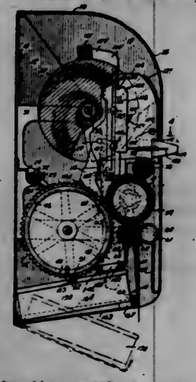
1,922,357
TUMBLER FOR CRAWLING TRACTION MECHANISM
James J. Divney and Benjamin Jacoby, Marion, Ohio, assignors to The Marion Steam Shovel Company, Marion, Ohio, a Corporation of Ohio
Application June 16, 1932. Serial No. 617,596
10 Claims. (Cl. 74—31)



1. In a tumbler of the character described, a body portion, side walls carried by said body portion and spaced apart, each side wall having a series of openings spaced about the same near the periphery thereof, each opening being arranged opposite a closed portion of the other

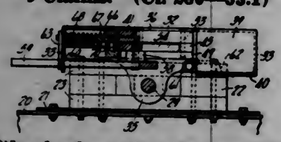
side wall, a driving lug extending from each closed portion of each side wall toward an opening in the other side wall and arranged between the ends of said opening, and transverse walls extending from the respective closed portions of each side wall to the corresponding openings in the other side wall.

1,922,358
COIN CONTROLLED MECHANISM
Leroy C. Doane, Meriden, Conn., assignor to Sanitary Public Service Corporation, New York, N. Y., a Corporation of New Jersey
Application November 30, 1929
Serial No. 410,681
28 Claims. (Cl. 194—1)



2. The combination with a mechanism having a predetermined cycle of operations and including a pivoted lever having a hook engageable with a pin carried by the mechanism for stopping it at the end of the cycle, of a coin controlled mechanism including a coin driven device secured to the pivoted stop lever and movable therewith and interconnected with the stopping means to be thereby reset in position for actuation by a coin, a coin chute having a coin retaining portion adjacent the coin driven device, and a normally retracted coin pushing device for pushing a coin against the coin driven device to release the stopping means.

1,922,359
FIFTH WHEEL CONSTRUCTION
John S. Edwards, South Bend, Ind.
Application September 24, 1932
Serial No. 634,669
9 Claims. (Cl. 280—33.1)



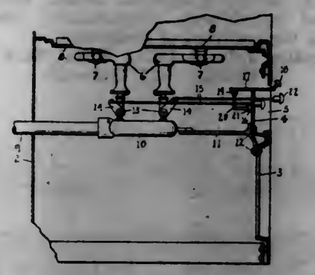
8. A fifth wheel construction comprising a pair of bearing members, one of said members carrying a pin and the other having a pin receiving slot formed therein, a socket carried by said slotted bearing member, a coupling member shiftable in said socket and having a notch formed therein, a spring pressed plunger shiftably carried by said socket, and a projection carried by said plunger and normally seated in said notch to hold said coupling member in pin receiving position, said pin engaging and shifting said plunger to withdraw said projection from said notch when seating in said slot.

1,922,360
WINDOW CONSTRUCTION
August C. Fast, Detroit, Mich., assignor to Car-Kra Corporation, Detroit, Mich., a Corporation of Michigan
Application September 9, 1932. Serial No. 632,405
8 Claims. (Cl. 20—49)



1. In a window, a frame, a slide movable in said frame, a sash plate pivoted to said slide, a sash secured to said plate, a latch normally locking said plate to said slide to hold said sash against tilting, means in said frame engageable by said latch for releasing the latter from said plate, a stop carried by said slide and tending to engage with said frame, said plate normally holding said stop out of engagement with said frame, whereby said stop is released for engagement with said frame on removal of said plate from said slide.

1,922,361
STOVE OR RANGE
Frank J. Freeland, Dowagiac, Mich., assignor to Round Oak Furnace Company, Dowagiac, Mich.
Application October 26, 1931. Serial No. 571,054
8 Claims. (Cl. 126—39)



1. In a device of the class described, the combination with a burner chamber having an inwardly offset wall constituting a control box, a manifold support carried by said wall, a manifold mounted on said support, a supply pipe connected to said manifold, a valve disposed between said supply pipe and said manifold, a lever associated with said valve, a control rod connected to said lever and extending into said control box, a cover for said control box, and an angular hinge member hinged to said cover and said wall, whereby said cover may be opened by lifting and sliding it inwardly on the top of said wall, it being necessary that said control rod be in a position to close said valve in order to permit the closing of said cover.

1,922,362
LIQUID RECORDING GAUGE
Hans N. Halvorsen, Vineland, N. J.
Application July 30, 1931. Serial No. 553,923
8 Claims. (Cl. 234—34)



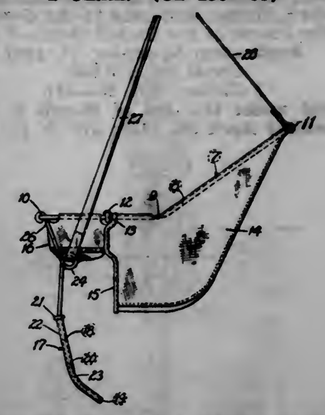
1. In a liquid gauge, the combination of a movable chart, a movable marker associated therewith, a float, means connecting the marker to the float to be moved thereby, and means adapted to be reciprocated by the float for moving the chart, said reciprocating means including pawl-like means adapted to directly engage and move the chart in one direction of reciprocation only.

1,922,363
ROTARY ENGINE
Dimitri N. Hapkins, Los Angeles, Calif., assignor of twenty per cent to Margaret A. Kerr, Los Angeles, Calif, and ten per cent to Clarence L. Kincaid, Los Angeles, Calif.
Application January 10, 1930. Serial No. 419,843
7 Claims. (Cl. 123—16)



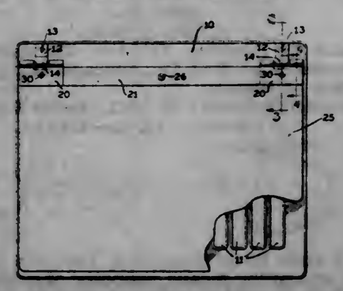
1. In a mechanism of the character described, a casing and a cylindrical rotor within the casing, there being clearance spaces between said rotor and the inner peripheral wall of the casing, the wall of the casing forming an abutment between said spaces, a plurality of radially movable blades mounted on said rotor, means urging all of said blades radially outward, said blades engaging the inner peripheral wall of the casing during their movement toward said abutment, and means for holding alternate blades in retracted positions from said inner wall of the casing, during their travel away from said abutment.

1,922,364
DOUBLE ACTION SWING
Marie Hartman, St. Louis, Mo.
Application February 8, 1932. Serial No. 591,552
1 Claim. (Cl. 155—65)



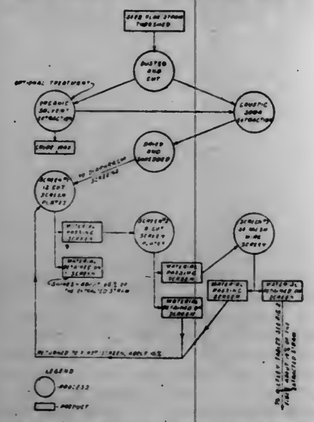
In combination with a swing comprising a horizontally arranged swing frame, to which is secured a fabric seat, a combined foot rest and propelling means comprising a propeller frame rotatively secured to the front end of said swing frame and extending downwardly and rearwardly therefrom, said propeller frame being provided with loops intermediate its ends, swing supports secured to said loops, and swing supports secured to the rear of said swing frame, so that a foot pressure applied to said propeller means will cause said swing and propeller means to move in an oscillatory manner about a fixed point.

1,922,365
FRICTION HINGE
Lloyd E. Heasley, Holland, Mich., assignor to Hart & Cooley Manufacturing Company, Chicago, Ill., a Corporation of Delaware
Application April 13, 1931. Serial No. 529,584
1 Claim. (Cl. 16—140)



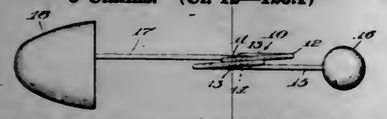
A hinge comprising, a first hinge member, a hinge pin rigidly fixed to the first hinge member, said hinge pin having a portion of its ends provided with threads thereon, and a second hinge member made from a flat piece of sheet metal bent to surround said threaded portions of the said hinge pin approximately 300 degrees and then terminating in spaced parallel members, said sheet metal piece having grooves formed in the surface thereof, which grooves receive said threads on said hinge pin and means to regulate the degree of frictional contact between the said grooves and threads, said means extending between the spaced parallel members.

1,922,366
PROCESS FOR SEPARATING BAST FIBERS FROM SHIVES
Clark C. Heritage, Rumford, Maine, Earl R. Schafer, Madison, Wis., and Lynn A. Carpenter, Rumford, Maine, dedicated to the Government and the People of the United States of America
Application November 17, 1931
Serial No. 575,650
1 Claim. (Cl. 92—33)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



The method of separating seed flax straw and materials of like nature into two components, which consists in subjecting the material to vibration to remove chaff, seed pods, and other foreign constituents, cutting into varying lengths, extracting with organic solvents to remove gums, resins, waxes, and fats, drawing off the solvents, then subjecting the resulting material to the actiton of a heated dilute alkaline solution, extracting the remaining material, washing, drying, disintegrating and screening by the use of the conventional type of Wilfley table or vanner.

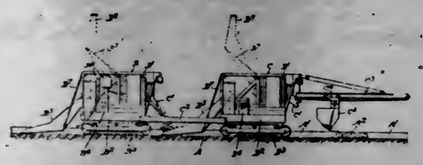
1,922,367
SHOE FORM
Bernard F. Horsting, Chicago, Ill., assignor to Simplex Shoe Tree Co., Chicago, Ill., a Corporation of Illinois
Application February 29, 1932. Serial No. 595,680
5 Claims. (Cl. 12—128.1)



1. A shoe form comprising heel and toe portions, and spring means composed of a wire coiled to provide a spring and hand gripping members, said members including parts bent around each other and extended to form arms attachable to said portions.

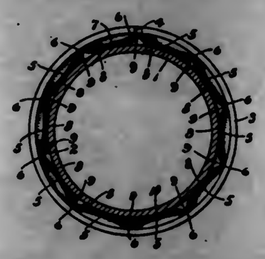
1,922,368
APPARATUS FOR MIXING CONCRETE
Wilson A. Jaicks, Chicago, Ill.
Original application March 19, 1931, Serial No. 523,709. Divided and this application June 1, 1931. Serial No. 541,327
2 Claims. (Cl. 83—73)

1. A concrete mixer comprising two mixing drums, independent supporting and propelling means therefor, tie rods joining said propelling and supporting means and adapted to maintain the distance between the drums constant, a skip adapted to load aggregate into one drum, means for mixing water with the aggregate and means for operating the drum to mix concrete, a skip associated with the second drum at a point below



the first, means for discharging material from the first drum and causing it to fall by gravity to and be arrested in the second skip, means, including said second skip, for charging the mixture from the first drum into the second, means for operating the second drum to mix the concrete, and means for discharging the mixed concrete therefrom.

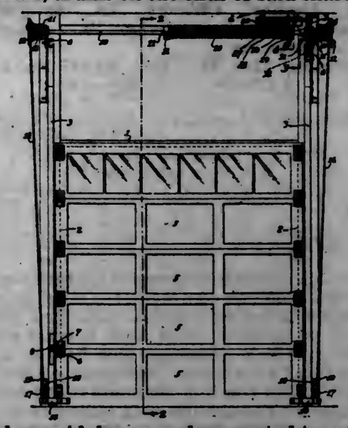
1,922,369
PISTON RING SPREADER
Charles E. Johnson, Muskegon, Mich., assignor to The Piston Ring Company, Muskegon, Mich., a Corporation of Michigan
Application September 17, 1930
Serial No. 482,447
3 Claims. (Cl. 309—43)



1. A piston having a ring groove therein, a parted piston ring located in the groove, a plurality of spreaders located in said groove between the bottom thereof and the inner side of the ring, said spreaders being shaped to provide alternate raises and depressions in the length of each spreader, the innermost spreader having the inner sides of its depressions contacting against the bottom of the ring groove, and the outermost of said spreaders having the outer points of its raised portions bearing against the inner side of the piston ring, said inner spreader having its raises nesting in the raises of the outer spreader, said raises of the inner spreader being of sharper construction for the purpose described.

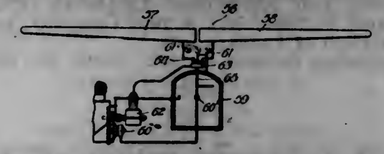
1,922,370
DOOR CONSTRUCTION
Clarence G. Johnson and Herbert C. Blodgett, Hartford City, Ind., assignors to Overhead Door Corporation, Hartford City, Ind., a Corporation of Indiana
Application August 4, 1931. Serial No. 555,108
10 Claims. (Class 20—20)

6. In combination with a vertically slidable door, a shaft parallel to the upper edge of said door, a single counterbalance means acting on said shaft, drums on the ends of said shaft, cables



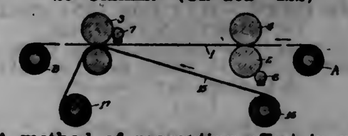
wound on said drums and connected to said door, and springs inserted in said cables.

1,922,371
AIRCRAFT
Russell G. Jones, Jackson Heights, N. Y.
Application July 17, 1930. Serial No. 468,582
5 Claims. (Cl. 244—2)



4. In an aeroplane comprising a fuselage and wings having a hollow framework, said framework being divided into a plurality of independently sealed sections, a compressor for supplying air to a predetermined pressure into said plurality of sections, and means connected with each of said sections to indicate a sudden drop in pressure due to a defect in the framework comprising one of the sections.

1,922,372
METHOD AND APPARATUS FOR PREVENTING OFFSET IN PRINTING
Theodore E. Knowlton, New York, N. Y.
Application August 30, 1930. Serial No. 478,840
20 Claims. (Cl. 101—422)



1. A method of preventing offset in printing characterized by printing a blank sheet upon one face, supporting the sheet on a smooth-surfaced, non-absorbent metal layer, and then printing the sheet on the reverse side.

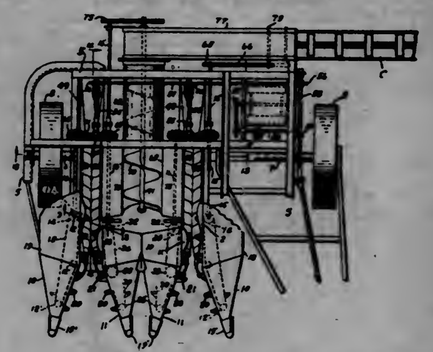
1,922,373
VALVE HEAD FOR AIR MOTORS
Nathaniel Keehn, Oakland, Calif.
Application June 8, 1927. Serial No. 197,391
13 Claims. (Cl. 121—11)

1. In combination with an air motor having an axially movable shaft; controlling means for said motor comprising a head having a bore and a spring-urged valve therefor, said valve being controlled by axial movement of the shaft, a diaphragm for resilient counteracting the movement of said shaft subjected to the pressure of the fluid within the bore below the valve, and



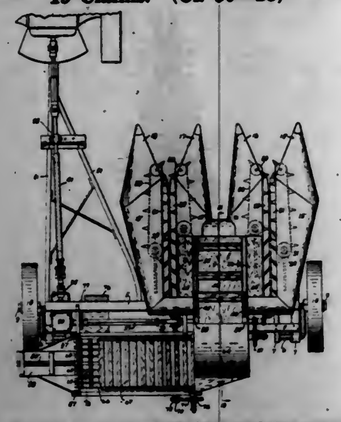
adjustable means for governing at will the maximum flow of fluid to said valve and coincidently adjusting the spring tension of the spring urged valve, whereby the required axial pressure on the shaft is decreased as the controlled maximum flow of fluid is increased.

1,922,374
CORN HARVESTING MACHINE
Norman R. Krause, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a Corporation
Application June 29, 1931. Serial No. 547,006
23 Claims. (Cl. 56—18)



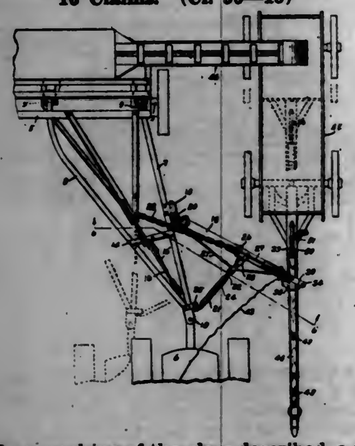
1. In a corn harvesting machine, the combination of a pair of gathering points, snapping rolls positioned between the points, a gathering chain mounted in one of the points said chain having fingers, a gathering chain in the opposite point having fingers, a lower chain on said latter gathering point including pivotally mounted fingers, means for actuating said rolls and chains to gather standing stalks and remove the ears therefrom, means for receiving and conveying ears and lighter material discharging from the rolls, and means for receiving the ears and other material from said conveying means and discharging the same into an air blast for separating light material from the ears.

1,922,375
CORN HARVESTING MACHINE
Norman R. Krause, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a Corporation
Application August 29, 1932. Serial No. 630,817
19 Claims. (Cl. 56—18)



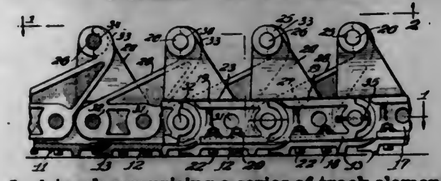
1. In a corn harvesting machine, a frame, means supported by the frame for gathering stalks, means for picking ears from the stalks, a crank axle pivotally mounted on the frame and having a spindle at its outer end, a hanger on the axle, and an anchor connecting the hanger to the frame for retaining the axle in adjusted positions.

1,922,376
CORN HARVESTING MACHINE
Norman R. Krause, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a Corporation
Application August 29, 1932. Serial No. 630,818
16 Claims. (Cl. 56—15)



1. In a machine of the class described, a frame, a drawbar connected to the frame, a support on the drawbar, a rack-bar on the support, a lever connected to the frame for vertically adjusting the machine and engageable by the rack-bar to maintain the machine in predetermined adjusted positions, a wagon-hitch pivotally mounted on the drawbar, and flexible means connecting the hitch and the frame for sustaining the hitch in normal position and also during the vertical movements of the lever.

1,922,377
TRACK FOR TRACK LAYING WHEELS
Joseph Kuchar, Chicago, Ill., assignor to Forged-Trak Co., Chicago, Ill., a Corporation of Delaware
Application May 21, 1932. Serial No. 612,663
5 Claims. (Cl. 305—10)



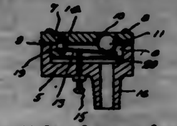
5. A track comprising a series of track elements each track element comprising a shoe, a pair of link elements bolted thereto, each link element carrying an integral truss arm, a truss element between said link elements, pins having a press fit in the link elements of one track element and a working fit in the link elements of an adjacent track element connecting said elements in series in pivotal relation, said pins extending through said truss element, and pins having a press fit in said link elements and in said truss elements, said pins rigidly securing said truss elements on said track elements.

1,922,378
LOCK NUT
Andrew Lyle Linderman, Pittsburgh, Pa., assignor to Neely Nut & Bolt Company, a Corporation of Pennsylvania
Application October 5, 1932. Serial No. 636,345
1 Claim. (Cl. 151—19)



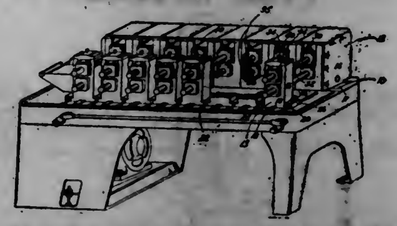
A metal nut adapted to be paired with a substantially identical nut to form a lock nut assembly, which nut includes a threaded bore, said nut including in its body region immediately surrounding said bore a bodily displacement of metal, providing upon the upper face of the nut an eccentric boss, and providing within the nether face of the nut a complementary eccentric recess.

1,922,379
AIR INLET VALVE FOR INTERNAL COMBUSTION ENGINES
Samuel H. Longfellow, Tulsa, Okla.
Application May 17, 1932. Serial No. 611,898
2 Claims. (Cl. 183—40)



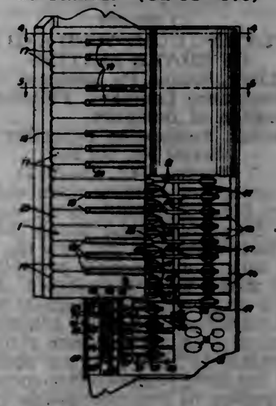
1. As a new article of manufacture, an air intake valve comprising a chamber provided adjacent one end with alined ports, a screen fitting snugly within the chamber and extending from end to end thereof, a valve seat about one of said ports, a valve member engageable with the seat, a leaf spring anchored in the chamber on one side of the screen and bearing against said valve member, and an adjusting screw extending through a wall of said chamber, and said screen and bearing against said spring.

1,922,380
FORMING MILL
John Lucas, Cleveland, Ohio, assignor to The McKinney Tool & Mfg. Co., Cleveland, Ohio, a Corporation of Ohio
Application November 19, 1931
Serial No. 576,139
8 Claims. (Cl. 153—54)



1. In a forming mill, a base, a plurality of spindle stands providing front and rear spindle housings, spindle driving means associated with said rear spindle housings, said front spindle housings being adjustably mounted on said base for movement laterally thereof, a plurality of spindles carried by said housings and extending forwardly of said front spindle housing and a pair of forming rolls on each spindle beyond the front spindle housing in a direction away from the rear spindle housing.

1,922,381
ACCORDION
Max B. Luttbeg, St. Louis, Mo.
Application January 11, 1932. Serial No. 585,869
10 Claims. (Cl. 84—376)



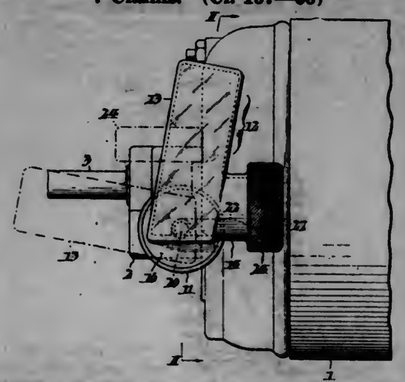
9. In an accordion, a bass section, and a keyboard simulating the keyboard of a piano, including both "black" and "white" keys, the individual keys of said keyboard controlling the bass tones of said accordion in chromatic tonal sequence, said keys being pivoted at one side of said keyboard, the opposite side of said keyboard, comprising the free, playing ends of said "white" keys, being curved in a concave manner, the front edges of said "black" keys being also curved in a concave manner, the two curves representing the front edges of the "white" keys and the front edges of the "black" keys, respectively, being closer together at the ends than in the central portion thereof.

1,922,382
APPARATUS FOR TREATING PARAFFIN
Lewis H. Macomber, Kalamazoo, Mich.
Application August 4, 1930. Serial No. 472,907
10 Claims. (Cl. 166—50)



1. In an apparatus of the class described, the combination of a vertically disposed cylindrical foraminated filter chamber provided with a discharge gate at its lower end, said chamber being expanded downwardly, said gate being of the full area of the chamber, a tubular fabric lining for said filter chamber disposed in supporting engagement with the wall thereof and secured at its upper end to the filter chamber wall, a concentrically disposed drain jacket surrounding said filter chamber and terminating above its said gate, said drain jacket having a discharge at its lower end, heating means disposed within said drain jacket adjacent its lower end, a valved means for supplying a heating medium to said drain jacket, a vertically disposed plunger cylinder of substantially the same diameter as said filter chamber opening to the upper end thereof, a valved charging connection to the lower end of said plunger cylinder, a plunger within said cylinder, and conections for supplying plunger actuating fluid to said plunger cylinder.

1,922,383
AUTOMATIC FILLING DEVICE FOR OIL RESERVOIRS OR THE LIKE
William J. Madden, Lansdowne, Pa.
Application December 2, 1932. Serial No. 645,388
7 Claims. (Cl. 137—68)



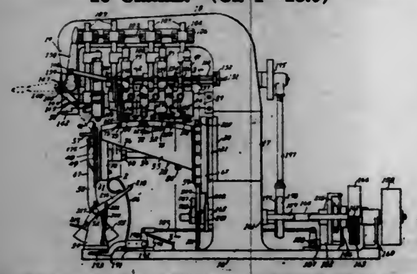
1. A filling device for replenishing oil reservoirs or the like comprising a container having a dis-

charge duct projecting from the base thereof, said discharge duct terminating in a fitting adapted for pivotal connection to the reservoir to which the device is applied, a filling opening at one side of the container, and a duct within the container forming an extension of the discharge duct and leading to the side of the container upon which the filling opening is located.

1,922,384
BARREL MAKING MACHINE

Robert W. McClenny, Lewiston, N. C., and Guy L. Carpenter, Benton Harbor, Mich., assignors to St. Joseph Iron Works, of St. Joseph, Mich., a Corporation of Michigan

Application January 12, 1931. Serial No. 508,020
16 Claims. (Cl. 1—13.6)

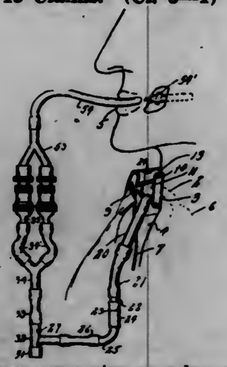


1. In a machine of the class described the combination of a stationary support mounted at one end, a series of fastener applying devices arranged along and co-operating with the support to apply fasteners to the work on the support, means for rotating the work around the support to present successive peripheral portions of the work to the fastener applying devices, said means including a work supporting member at and rotatable around the mounted end of the support and a pair of work feeding members between the ends of the stationary support and rotatable on axes eccentrically disposed at unequal distances from the axis of rotation of the said rotary work supporting member, one of said work feeding members being movable to and from the other work feeding member to receive and engage the work therebetween.

1,922,385
ARTIFICIAL LARYNX

Elmer I. McKesson, Toledo, Ohio, assignor to The Vocophone Company, Toledo, Ohio, a Corporation of Ohio

Application February 11, 1927. Serial No. 167,548
15 Claims. (Cl. 3—1)

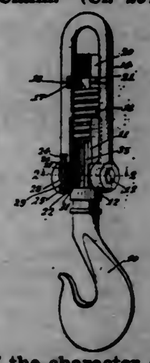


1. Resonance apparatus as a larynx substitute embodying in said apparatus multiple pitch trumpet means, there being duct supply means thereto for wind pipe flow generation and there being duct delivery means therefrom for common oral chamber resonating and pneumatically responsive means coacting against simultaneous operation of the multiple pitch trumpet means.

1,922,386
LOCKING DEVICE FOR SWIVELING CASING HOOKS

Burt S. Minor, San Pedro, California

Application June 10, 1932. Serial No. 616,448
1 Claim. (Cl. 294—82)



In a hook of the character described, a block, a hook having a shank with a groove formed therein slidably and rotatably mounted in said block, a pin having a notch formed therein slidably mounted in a bore formed in said block, a locking bolt having a tapered head slidably mounted in a recess formed in said block, and an expansion spring normally urging the head of said locking bolt into engagement with the notch formed in said pin and out of engagement with the groove formed in the shank.

1,922,387
SILVER PLATING COMPOUND AND METHOD OF SILVER PLATING

John H. Müller, Secane, Pa., assignor to International Resistance Company, Philadelphia, Pa., a Corporation of Delaware

No Drawing. Application December 12, 1930
Serial No. 501,926
7 Claims. (Cl. 91—70.1)
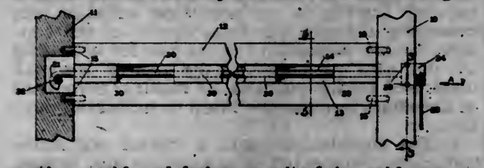
1. The method of forming upon objects to be plated thin films of metallic silver strongly adherent to the surface upon which they are deposited, which consists in painting the surface to be plated with a combustible protective colloid intimately mixed with uncombined silver oxide and with a silver salt of an organic acid which is at least partly soluble in an aqueous solution of the protective colloid and then subjecting the painted surface to heat to bring about the reduction of the silver compounds to metallic silver, with elimination of the combustible ingredients of the compound.

1,922,388
BED RAIL FASTENER

John I. Norris, East Grand Rapids, Mich.

Application July 13, 1931. Serial No. 550,418
2 Claims. (Cl. 5—296)

1. In combination, a foot post, a head post, a rod connected with said foot post, said rod extending through the head post, means associated with the head post end of the rod to draw the head post toward the foot post, a bed rail, having a groove therein to receive said rod, located between the head post and the foot post to prevent movement of these two members toward each other, said groove being enlarged at its top portion and blocks slidably mounted in said enlarged



portion, said rod being received in said groove near the bottom thereof.

1,922,389
CURTAIN FIXTURE

Alvin F. Nye, Rochester, N. Y., assignor, by mesne assignments, of one-half to Harry B. Lawson, East Rochester, N. Y.

Application January 12, 1932. Serial No. 586,182
8 Claims. (Cl. 156—26)



8. In a device of the character described, the combination with a lateral guide, a flexible curtain arranged to run with an edge in the guide and adapted to be wound upon a roll, of means associated with the guide independently of the curtain roll but cooperating with the curtain as it passes from the roll to provide it with an antifriction bearing in the guide.

1,922,390
PROCESS OF RECOVERING ZINC FROM BRASS SCRAP AND OTHER MATERIALS CONTAINING ZINC

William J. O'Brien, Cleveland, Ohio, and Joseph E. Drapeau, Jr., New York, N. Y., assignors to The Glidden Company, Cleveland, Ohio, a Corporation of Ohio

No Drawing. Application April 20, 1931
Serial No. 531,620
1 Claim. (Cl. 23—125)

The process of recovering zinc from brass scrap, for use in the manufacture of lithopone containing not more than a minor trace of impurities, which comprises heating the brass scrap in the presence of air in sufficient quantity to oxidize the zinc to zinc oxide but not sufficient to affect the copper present in the brass scrap, collecting the zinc fume, dissolving the zinc fume with sulphuric acid, removing chlorine by adding copper powder and copper sulphate in the proportion of one gram of copper per liter to one gram of chlorine, neutralizing the acid solution with zinc oxide, eliminating arsenic and part of the iron by treating with lime, and removing all but a minor trace of all other impurities.

1,922,391
METHOD OF PRODUCING A PREPARED FUEL

Benjamin F. J. Odell, Chicago, Ill.

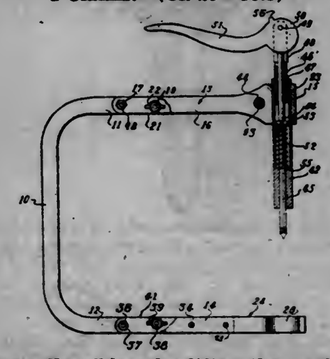
No Drawing. Application March 12, 1931
Serial No. 522,159
7 Claims. (Cl. 44—6)

1. A method of producing a prepared fuel, comprising, depositing on the surface of a solid fuel a fluid being as applied substantially an emulsion comprised of water dispersed in an oil, said water comprising about 5 to 65 per cent of said emulsion.

1,922,392
VALVE LIFTER

Stanton Palmer, Chicago, Ill., assignor, by mesne assignments, to Snap-on Tools, Inc., Kenosha, Wis., a Corporation of Delaware

Application March 29, 1930. Serial No. 439,866
4 Claims. (Cl. 29—86.3)

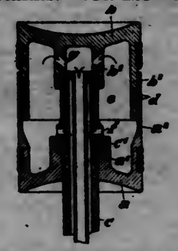


1. In a collapsible valve lifter, the combination with a frame, of a yoke pivotally associated with said frame, valve spring receiving jaws pivotally associated with said frame for confronting assembly with said yoke, actuator means associated with said yoke, fastener means on said yoke to enable the axial adjustment of said actuator means therein, and fastener means for maintaining said pivotal yoke and jaws in rigid spaced operative relation.

1,922,393
PISTON FOR DOUBLE ACTING INTERNAL COMBUSTION ENGINES

Gustav Pielstick, Augsburg, Germany, assignor to Maschinenfabrik Augsburg-Nürnberg A. G., Augsburg, Germany, a Corporation of Germany

Application September 8, 1931, Serial No. 561,534, and in Germany September 19, 1930
12 Claims. (Cl. 123—176)



1. A piston for double acting engines of the character described, comprising opposed separate head sections, said sections having telescopically related hollow cylindrical skirt por-

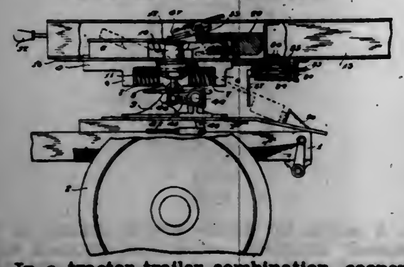
tions, cooperating to provide a common chamber extending between the inner sides of the piston heads, and a piston rod extending through one section and in threaded engagement with both of said sections and rigidly securing said head sections together.

1,922,394
ELECTRIC PLUG CONNECTER
Estel C. Raney, Columbus, Ohio
Application September 26, 1929
Serial No. 395,416
2 Claims. (Cl. 173—328)



1. A plug connecter comprising a shell having a wall, the wall having a pair of openings and surfaces inclined to the inside surface of the wall to form depressions on the inside side of the wall and extending to and having their greater depth at the openings, arcuate shaped spring contacts located on the inside of the wall and terminating at the openings and having end portions located in the depressions formed by the said inclined surfaces and bowed away from the inclined surfaces and the adjoining surface of the body of the wall, the other end portions of the contacts connected to the wall, a member having a pair of terminals, the terminals having turned ends insertible through and rotatable in the openings, the terminals protruding from the member a length to cause the turned ends to engage and ride the inside sides of the spring contacts when the member is rotated to increase the contact pressure between the terminals and the contacts and securely hold the member against the outside surface of the wall.

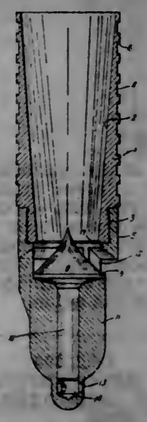
1,922,395
TRACTOR SEMITRAILER
Frederick M. Reid, Detroit, Mich., assignor to Fruehauf Trailer Company, Detroit, Mich., a Corporation of Michigan
Application January 29, 1932. Serial No. 589,656
9 Claims. (Cl. 280—33.1)



1. In a tractor-trailer combination, cooperating interengaging coupling devices, a latch on the trailer for holding the coupling devices in locked position, a rock shaft on the trailer an arm secured thereto, a reciprocating actuator pin extending through the axial center of the coupling device, means on the tractor for actuating the pin, said pin engaging the arm on the rock shaft, and means operable by rocking movement of the shaft to move the latch to unlocking position.

5. The combination with a tractor and semitrailer interconnected by a king pin and locking elements engaging the king pin, an actuator pin disposed on the axial center of the king pin, mechanical operating means on the trailer associated with the actuator pin, mechanical means on the tractor for reciprocating the actuator pin to operate the mechanical means on the trailer, means electrically insulating the actuator pin from the king pin, an electrical conductor on the tractor connecting to the actuator pin, an electrical conductor on the trailer connecting to some of the mechanical operating means, and an insulated part on the mechanical operating means having electrical contact with the actuator pin.

1,922,396
PNEUMATIC SWAB PLUNGER
Norman H. Ricker, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas
Application February 16, 1931. Serial No. 516,158
3 Claims. (Cl. 103—52)



1. A swab plunger comprising a tubular body cylindrical on its outer periphery, said body being formed with circumferential grooves therein, the side walls of said grooves being undercut to form scraping edges thereon, a valve seat at its lower end and a normally open valve supported below said seat.

1,922,397
SIGNAL HORN
Frank Morse Robb, Belleville, Ontario, Canada
Application November 12, 1928
Serial No. 318,704
1 Claim. (Cl. 177—7)

In a signal horn, a plurality of electro-magnets mounted on a supporting plate with their poles projecting therethrough, a single diaphragm mounted near one pole of each of said magnets, interrupter mechanism for the circuit of each of the magnets mounted on the supporting plate and actuated by the magnet whose circuit it controls, said interrupter mechanism being tuned to different frequencies so that each of the electro-



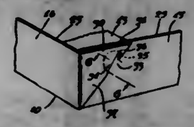
magnets will actuate the diaphragm at a different frequency.

1,922,398
CHRISTMAS GARDEN HEDGE
Aaron B. Scheibner, Audubon, N. J.
Application September 7, 1932
Serial No. 632,071
2 Claims. (Cl. 41—10)



1. In a method for constructing a Christmas tree garden hedge, the steps consisting in sawing off opposite portions of pine tree cones, causing opposite flat faces to be formed on the cones, then subjecting the cones to heat causing the petals to open, adhesively fastening the flat faces together and adhesively mounting the cones on an elongated base strip, and then finally dipping the hedge section into suitable coloring matter.

1,922,399
BOX
Paul A. Schilling, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a Corporation of Minnesota
Application January 19, 1931. Serial No. 509,741
10 Claims. (Cl. 229—31)



1. A collapsible box comprising a bottom having a side wall and an end wall folded outwardly therefrom, said side and end walls being formed with a doubled over flap lying against one of said walls and a tongue on the same wall disposed between the parts of said flap for holding said walls in erected position.

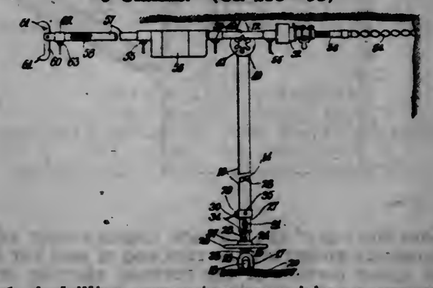
1,922,400
RETAINING MEANS FOR SHAFTS AND THE LIKE
Floyd L. Scott, Houston, Tex.
Application May 8, 1930. Serial No. 450,645
2 Claims. (Cl. 287—20)

1. A metal body, a shaft supported in said body, in combination with means to retain said shaft in said body including a staple of resilient metal the head of which is adapted to engage about said shaft, said body having bores to receive the legs of said staple, said bores being straight adjacent said



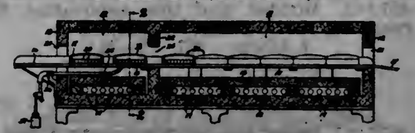
shaft to fit about the same and diverging inwardly therefrom to frictionally receive said legs.

1,922,401
DRILLING MACHINE
Victor L. Scott, Ottumwa, Iowa
Application October 1, 1928. Serial No. 309,607
6 Claims. (Cl. 255—53)



1. A drilling apparatus comprising a supporting column, an adjustable supporting element mounted on said column, an arm provided with a feed bar passage carried by said supporting element, and drilling mechanism including a feed device and an operating motor detachably connected with the opposite ends of said arm, respectively in counterbalancing relation.

1,922,402
METHOD OF SINTERING BRIQUETTED MATERIALS
Charles R. Short, Dayton, Ohio, assignor to Moraine Products Company, Dayton, Ohio, a Corporation of Ohio
Application February 24, 1930. Serial No. 430,834
6 Claims. (Cl. 75—1)

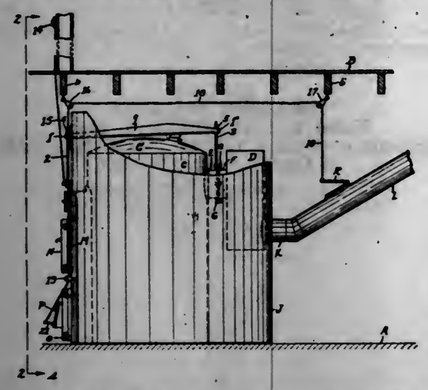


1. The method of sintering articles briquetted from finely divided metals, comprising: rapidly heating the articles to a temperature near a predetermined sintering temperature by exposing them to a temperature higher than said sintering temperature, and then substantially immediately passing said heated articles into a sintering zone where they are maintained at the sintering temperature until sintered.

1,922,403
AUTOMATIC TEMPERATURE CONTROL FOR FURNACES
George Stevenson, Richmond, Ind., assignor of one-half to Claude A. Hoover, Richmond, Ind.
Application May 16, 1932. Serial No. 611,613
3 Claims. (Cl. 236—104)

1. In combination with a heating furnace having a jacket inclosure and provided with a vent

pipe in the rear and having a draft damper in said pipe and with a check damper located in the front; an automatic temperature control comprising a thermo-bar extending across above the top of the furnace and within said jacket, a sharp edged fulcrum which is crescent-shaped longitudinally and formed integral with the under side of said bar and located in the rear of the center thereof with said edge resting on the top of the furnace whereby said bar is supported by and



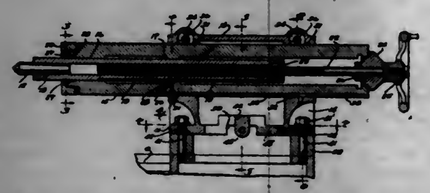
above the top of the furnace, means rigidly and adjustably anchoring the rear end of said bar to the upper portion of the furnace whereby the front end only of said bar may be raised and lowered thermally, by the heat generated in the furnace, and means whereby the raising and lowering of the front end of said bar will open and close said dampers alternately and reversely with relation to each other, all substantially as shown and described.

1,922,404

TAILSTOCK FOR LATHES, GRINDERS, AND THE LIKE

Adolph Storm and Thor Thorsen, Minneapolis, Minn., assignors to Storm Manufacturing Co., Inc., Minneapolis, Minn., a Corporation of Minnesota

Original application March 21, 1930, Serial No. 437,741. Divided and this application February 18, 1931. Serial No. 516,652
1 Claim. (Cl. 82—31)



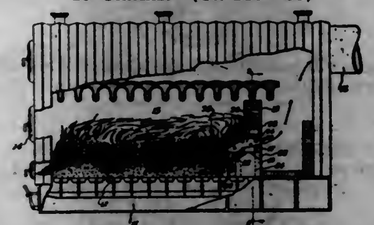
In a machine of the class described, a bed, a tailstock base block independent of the bed and rigidly secured thereto, said base block having a pair of upstanding guide lugs endwise spaced transversely thereof in a channel in the tailstock and holding said tailstock for straight line transverse sliding movement, said tailstock having a depending lug between the two guide lugs, said base block having a pair of opposing adjusting screws that impinge against opposite faces of the lug on the tailstock, a pair of nut-equipped screw-studs anchored to the base, extending through holes in the base block and transverse slots in the tailstock and normally holding the tailstock clamped onto the base block, and set-screws in the tailstock that impinge against one of the faces of the guide lugs and hold the tailstock frictionally clamped onto the opposite faces of the guide lugs.

1,922,405

COMBUSTION BURNER

Alfred E. Stuckert, Canton, Ohio, assignor to Wadert Co., Inc., Cleveland, Ohio, a Corporation of Ohio

Application March 7, 1930. Serial No. 433,935
19 Claims. (Cl. 110—64)



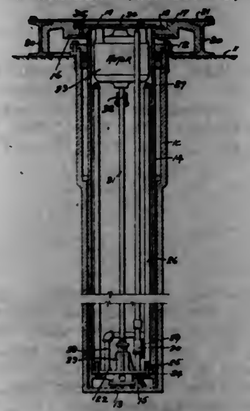
1. In an updraft furnace having a fire box, a burner block in the fire box provided with an inlet passage below the level of the fire bed in said fire box and with an outlet passage, means for causing all of the gases from the fire box to pass through said inlet passage, and the walls of said burner block being perforated for admitting additional air from outside the fire box to said outlet passage to produce complete combustion of the gases.

1,922,406

PLUNGER FOR VEHICLE LIFTS

Louis C. Stukenberg, Memphis, Tenn.

Refiled for abandoned application Serial No. 459,986, filed June 9, 1930. This application October 5, 1932. Serial No. 636,293
7 Claims. (Cl. 138—9)



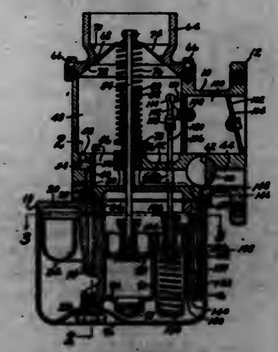
1. A hydraulic jack including a hollow cylinder and a plunger unit disposed in said cylinder, said unit including an elongated hollow cylinder open at both ends and having an integral, internal, annular flange adjacent an end thereof, a closure member including a pump assembly insertable from the opposite end of said cylinder, means, secured to and extending from said annular flange, terminating adjacent and accessible to the opposite end of the cylinder, co-operable with said closure member for guiding said closure member into place against said flange, whereby said member may be engaged with the accessible portion of the guiding means and be thereafter guided to seating position, and means co-operating with said guiding means for securing said closure member in place.

1,922,407

CHARGE FORMING DEVICE

Wilford H. Teeter, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a Corporation of Delaware

Application September 7, 1929. Serial No. 391,057
22 Claims. (Cl. 261—34)



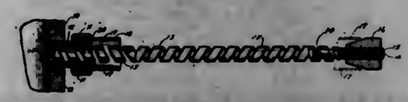
1. A charge forming device for internal combustion engines comprising a mixture passage, means for supplying fuel and air thereto, a throttle regulating the flow therethrough, suction operated means operative on opening movements of the throttle for enriching the mixture for acceleration, said means being operative only after the throttle has reached a predetermined position.

1,922,408

PACKAGE HOLDER FOR DYEING MACHINES

Henry V. Underwood, Belmont, N. C.

Application November 5, 1931. Serial No. 573,130
3 Claims. (Cl. 8—19)



1. In a package holder for yarn dyeing machines, a threaded hollow base member adapted to be secured in a supply pipe of the dyeing machine, a resilient spiral member secured in the base member and extending unsupported therefrom, a threaded member secured in the other end of the spiral member, a nut on said threaded member for resiliently confining the package of yarn between the base member and the nut.

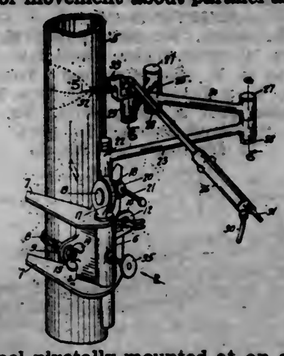
1,922,409

TORCH HOLDER

Roland Wyss, Brush, Colo.

Application August 23, 1932. Serial No. 630,049
13 Claims. (Cl. 266—23)

1. Apparatus of the character described, comprising a measuring-element adapted to predetermine the angle of a cutting-plane relative to a fixed axis of the work, a tool-holder mounted for adjustment by the measuring-element and composed of a plurality of arms joined in end-to-end relation for movement about parallel axes, and a



cutting tool pivotally mounted at an end of the holder.

1,922,410

VENTILATING SKYLIGHT

Christian Young, Detroit, Mich.

Application March 26, 1930. Serial No. 438,936
11 Claims. (Cl. 108—16)



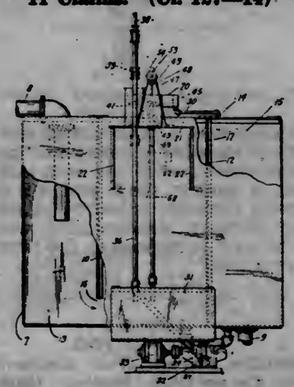
1. The combination with a gable roof, a pair of angularly disposed sash members for closing a ventilating opening in the roof, said sash members being angularly disposed and rigid with respect to each other with the ridge line of the roof being located substantially at the angle, means pivotally mounting one sash at its lower end, the lower end of the other sash being free, and means for raising the sashes on said pivot.

1,922,411

AUTOMATIC CONTINUOUS LIMING DEVICE

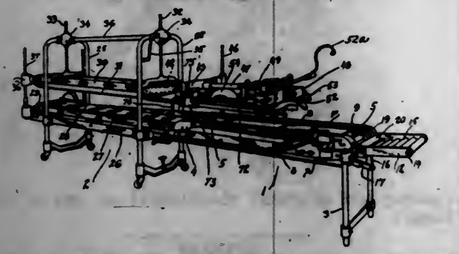
Emil Carl Zitkowski, San Fernando, P. I.

Application April 7, 1930. Serial No. 442,198
11 Claims. (Cl. 127—14)



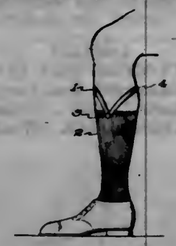
1. In apparatus for the purpose described, a tank adapted to be placed in a flow line of sugar cane juice, a lime box, means adapted to supply lime to said box, continuously, mechanism connected to regulate the level of the lime in the lime box by the quantity of juice in the tank, and means adapted to convey lime from the box to the tank when the lime in the box has reached a predetermined level.

1,922,412
GLUING AND SEALING MACHINE FOR SHIPPING CASES
Howard G. Allen, Niagara Falls, N. Y., and Frederick W. Kucklinsky, Montclair, N. J., assignors to H. R. Bliss Company, Inc., Niagara Falls, N. Y., a Corporation of New York
Application July 8, 1929, Serial No. 376,521
Renewed January 16, 1933
10 Claims. (Cl. 93—2)



1. In combination, a gluing unit for shipping cases comprising a frame, a sealing unit comprising a frame, lower and upper pressure rollers in the frame of the sealing unit, carrying means for the upper pressure rollers, glue applying mechanism carried by the said carrying means and projecting over the frame of the gluing unit, and means for adjusting said carrying means for variation in shipping case size whereby the glue applying mechanism is also adjusted.

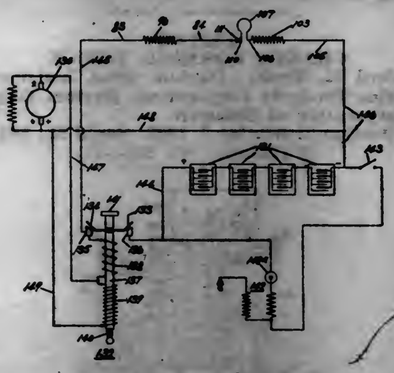
1,922,413
GARTER
Max F. Ascher, Chicago, Ill.
Application September 16, 1932
Serial No. 633,442
4 Claims. (Cl. 2—240)



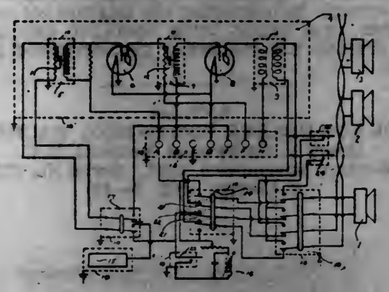
1. In combination, a sock and elastic band together with a fastener whereby said band is secured to the upper part of the sock, said fastener comprising a hollow shell and an expansible plug, whereby the band is secured directly to the shell, and another substantially similar plug whereby the sock is secured in the same manner over the first plug.

1,922,414
CARBURETOR
Fred E. Aseltine, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a Corporation of Delaware
Original application May 9, 1923, Serial No. 637,829. Divided and this application May 3, 1929. Serial No. 360,624
11 Claims. (Cl. 290—31)

1. In a charge forming means for an internal combustion engine provided with an electrically operated starting means and means for energizing same, the combination with a carburetor including a fuel mixture channel and a fuel mixing device; of a normally ineffective electric heating device associated with the mixing device and a circuit therefor controlled by the means for energizing the starting device and adapted to be brought into effect to heat the fuel mixture while the engine starting means is operated to start the engine only at temperatures below a certain predetermined temperature.



1,922,415
ELECTRICAL—INCLUDING RADIO—APPARATUS
Maurice Bank, Chicago, Ill.
Application March 25, 1929. Serial No. 349,690
3 Claims. (Cl. 179—1)

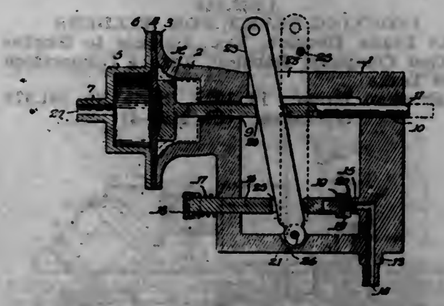


1. In an apparatus of the character described, the combination of a plurality of loud speaking reproducers in circuit and an amplification apparatus in said circuit adapted to receive input fluctuations from one reproducer and deliver amplified fluctuations to another, said amplification apparatus including a transformer in an amplification stage provided with a predetermined capacity for preventing the building up of a capacity between the primary and secondary of said transformer and for permitting the efficient operation of said reproducer as a transmitter.

1,922,416
GAS ABSORBENT
David Julian Block, Chicago, Ill.
No Drawing. Application August 5, 1931
Serial No. 555,267
5 Claims. (Cl. 252—2.5)

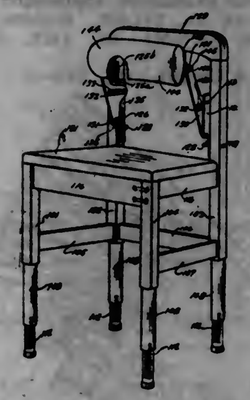
4. A deodorizing composition comprising absorbent carbon containing substantial and effective quantities of absorbed formic aldehyde.

1,922,417
AUTOMATIC AIR BRAKE RELEASE VALVE
Stanley Begut, Chicago, Ill.
Application March 31, 1930. Serial No. 440,291
6 Claims. (Cl. 303—80)



1. A device of the class described comprising a frame having a passageway therethrough normally connected to the auxiliary reservoir of an air brake equipment; a valve in said passageway; a lever pivoted on said frame and adapted when moved to open or close said valve; a bell-shaped member integral with said frame; a rod slidable in said frame and terminating in an enlarged head portion within said bell-shaped member; a flexible diaphragm secured over the opening of said bell shaped member, and a metal housing secured against said diaphragm and normally connected to a compressed air source, the admission of compressed air thereinto being adapted to effect movement of said rod and closing of said valve.

1,922,418
POSTURE REGULATING CHAIR
Lawrence W. Conant, High Point, N. C., assignor to Ko-Rect Posture Chair Company, High Point, N. C., a Corporation of North Carolina
Application September 9, 1930. Serial No. 480,749
6 Claims. (Cl. 155—158)



2. In a chair having the rear posts extending above the seat portion of the chair, a bracket member secured for vertical adjustment along each post, an upwardly projecting arm slidably and loosely secured at its lower end to said bracket and having an arcuate toothed slot therein, a pin on the bracket projecting into said toothed slot and a lumbar support secured at its ends to the upper end of each of said arms.

1,922,419
ACCESSORY FOR COOKING VESSELS
Earl V. Coulston, Cleveland, Ohio
Application February 17, 1932. Serial No. 593,591
4 Claims. (Cl. 53—1)



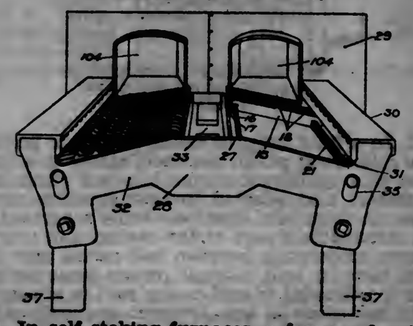
1. An accessory for use with conventional cooking vesels, a plate having projections adapted to space said plate from the bottom of such vessel, said plate having an opening adjacent its central portion and a series of openings including said first opening, and raised portions on the top of said plate intermediate said openings encircling said first opening, said portions forming channels extending from the outer edges of said plate to a point adjacent said first opening.

1,922,420
ATTACHMENT FOR STOVES
Earl V. Coulston, Cleveland, Ohio
Application February 17, 1932. Serial No. 593,592
7 Claims. (Cl. 126—215)



1. An attachment for stoves with open top grates having bars with intervening spaces, comprising a truncated housing member and a flat member, and means extending through the spaces between said bars for interconnecting said members and seating same upon opposite sides of said top grate, whereby channels enclosed between the bars of said top grate and said members are formed, the channels communicating both with the interior of the truncated housing section and the outer air.

1,922,421
FURNACE
Louis Wheitsel Daman, Outremont, Montreal, Quebec, Canada
Application May 28, 1930. Serial No. 456,681
11 Claims. (Cl. 110—47)



1. In self stoking furnaces, a furnace front, a firebox frame rigidly secured to said front, a motor having its shaft operatively connected to a driven shaft, a mechanical stoker driving the fuel

into the center of the firebox and operatively connected to said driven shaft, a central fuel trough in the firebox, pivot shafts rigidly secured to the furnace front and firebox frame on either side of said trough, eccentric shafts having alternating eccentrics and journalled in said front and said frame adjacent to the side walls of said frame, grate bars pivotally mounted on said pivot shafts at their inner ends and bearing on said eccentrics at their outer ends; means connecting said stoker to said driven shaft and means connecting said eccentrics to said driven shaft.

1,922,422

RELAY

Harry C. Doane, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware

Application August 22, 1930. Serial No. 477,048
9 Claims. (Cl. 200—87)



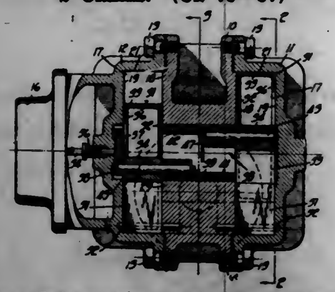
1. In a current limiting device, the combination comprising; a pair of contacts, one of which is movable; a lever carrying one of the contacts; electromagnetic means for actuating the lever so as to move the movable contact; and temperature responsive means connecting the lever with a stationary part and so constructed and arranged as to move said lever in a direction such as to cause the movable contact to move across the face of the stationary contact while in engagement therewith.

1,922,423

FLUID METER

Erland William Ericson, San Francisco, Calif., assignor to The Merrill Company, San Francisco, Calif., a Corporation of California

Application August 22, 1931. Serial No. 558,654
2 Claims. (Cl. 73—37)



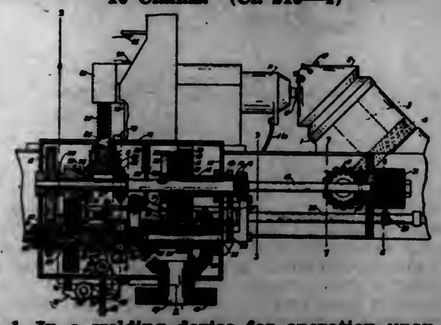
1. In a fluid meter, a casing formed to provide two cylindrical piston chambers alined on a common axis, cylindrical pistons disposed within said chambers and adapted to have gyrating movement therein, said chambers being separated by an intermediate part of the casing, and journal means cooperating between said casing part and said pistons, said journal means comprising a sleeve journaled in said casing part in alinement with said common axis, eccentric connections between the end portions of said sleeve and said pistons, said sleeve incorporating cantilever like resilient elements forming portions of the sleeve, the eccentric connections being to the free ends of said cantilever elements, whereby each eccentric connection can be independently sprung toward the axis of rotation of the sleeve.

1,922,424

INDEXING DEVICE FOR WELDERS

Seth Evans, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas

Application January 10, 1929. Serial No. 331,579
10 Claims. (Cl. 219—4)



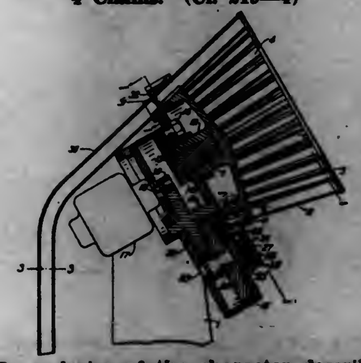
1. In a welding device for operation upon a conical cutter body, means to support said body, and means to weld teeth thereon, the combination of means to periodically communicate a rotative movement to said body, automatic means connected with said rotative means to index said body to receive said teeth, means to move said welding means longitudinally along the work, and means to stop said device when said teeth have been applied to said body.

1,922,425

DEVICE FOR REGISTERING AND FEEDING OBJECTS TO A MAGAZINE

Seth Evans, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas

Substitute for abandoned application August 6, 1928, Serial No. 297,648. Divided and this application October 25, 1930. Serial No. 491,308
4 Claims. (Cl. 219—4)



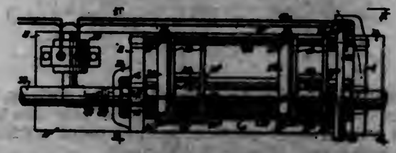
1. In a device of the character described, a downwardly tapered hopper having longitudinal troughs to receive irregular shaped objects, means to support said hopper in an inclined position, means to rotate said hopper, a magazine positioned to register with said troughs as said hopper is rotated, means to hold each trough successively into registration with said magazine, and to jar said objects into said magazine, and means on said rotating means to allow said hopper to remain stationary when said objects act to clog in said magazine.

1,922,426

GLASS TUBE CUTTER

Emery H. Fahrney, Chicago, Ill.

Application March 4, 1932. Serial No. 596,783
11 Claims. (Cl. 49—48)



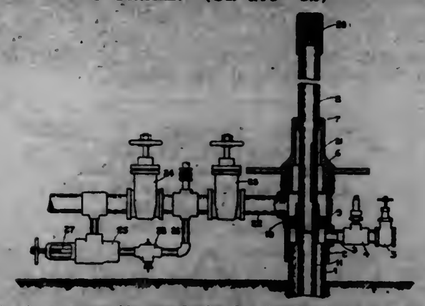
1. In a glass tube cutting machine, spaced tube supporting rollers rotatable about parallel axes, a motor for rotating the rollers, a pivotally mounted support, a pressure roller rotatably mounted upon the support and movable into engagement with the tube for holding the tube upon the supporting roller, a pivotally mounted operating handle separate from said support a cutting tool carried with the handle, an operative connection between the handle and said pivotally mounted support remote from the pivot of the support, whereby the operation of the support will be responsive to the operation of said handle, and means responsive to the operation of the handle for controlling the operation of the motor.

1,922,427

CONTROL APPARATUS FOR PUMPS

Harold Wheelock Fletcher, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas

Application October 19, 1931. Serial No. 569,674
6 Claims. (Cl. 103—52)



1. A pneumatic swab device including a casing, a casing head thereon, an eduction tube in said casing adapted to discharge liquid into said casing head, an outlet line from said casing head, a choke valve in said line and a back pressure valve between said choke valve and said casing head.

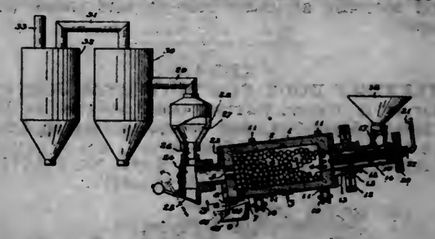
1,922,428

APPARATUS FOR SMELTING ALUMINUM

John G. G. Frost, Cleveland, Ohio, assignor to The National Smelting Company, Cleveland, Ohio, a Corporation of Ohio

Original application May 27, 1930, Serial No. 456,181. Divided and this application April 18, 1931. Serial No. 531,083
12 Claims. (Cl. 266—18)

1. In apparatus for the recovery of aluminum, a rotatable drum, means for retaining heat within said drum, means for causing a crushing action on material within said drum during the rotation thereof, means for introducing aluminiferous material into said drum from the upper



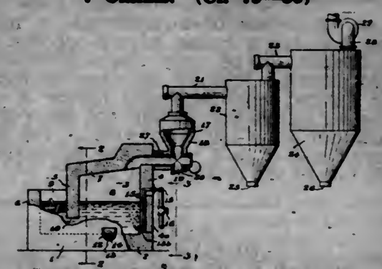
end thereof including a conveyor having a hollow tube, and means for introducing chlorine into said drum.

1,922,429

PROCESS OF MELTING ALUMINUM

John G. G. Frost, Cleveland, Ohio, assignor to The National Smelting Company, Cleveland, Ohio, a Corporation of Ohio

Application May 15, 1931, Serial No. 537,610
Renewed January 20, 1933
7 Claims. (Cl. 75—58)



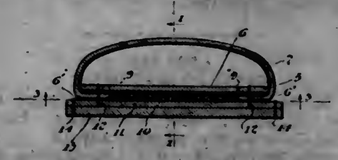
1. The process of melting aluminum which comprises introducing into a bath a molten aluminum or alloy thereof sufficient chlorine to react with about five percent of said aluminum, recovering the aluminum chloride formed from said reaction, conserving the exothermic heat from said reaction, introducing additional metallic aluminum into said molten bath, and utilizing said exothermic heat to melt said added aluminum.

1,922,430

SHOE AND METHOD OF MAKING THE SAME

Karl P. Game, Chicago, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York

Application March 21, 1930. Serial No. 437,679
2 Claims. (Cl. 12—142)



1. The method of making shoes which consists in applying a coating of fluid sealing material to the underside of an insole; turning the edges of an upper under the edges of said insole while said sealing material is still fluid; applying a coating of sealing material to the underside of said insole and to the underturned edges of

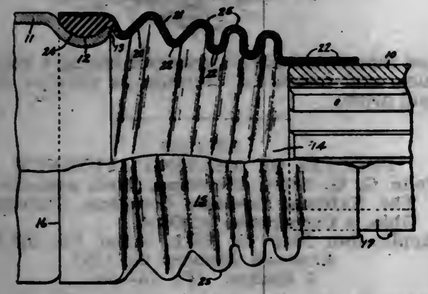
said upper, while said first coat is still fluid, thereby forming a waterproof coating bifurcated at the edges to embrace said underturned edges; and securing an outer sole to said insole and upper.

1,922,431

FLEXIBLE BOOT FOR UNIVERSAL JOINTS

Harvey D. Geyer, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware

Application June 29, 1929, Serial No. 374,772
4 Claims. (Cl. 64—39)



1. As an article of manufacture, a molded rubber and fabric casing having opposite open ends adapted to be fixed respectively to two spaced relatively movable members, said casing being tapered lengthwise and having a spiral peripheral corrugation therein, the turns of said corrugation being relatively wide at the larger diameter end of said casing and decreasing in width toward the smaller end thereof.

1,922,432

OUTLET BOX

Harry V. Gould, Bridgeport, Conn.

Application May 1, 1930. Serial No. 448,846
2 Claims. (Cl. 247—15)



1. An outlet box of the character described, comprising a bottom member having spaced apart projected lugs, a side member formed of a single piece bent to form all the enclosing sides of the box and having pockets formed in its lower edge portion to receive the projected lugs of the bottom, the lower edge portions of said side member intermediate of said pockets being pressed in against and under the edge of the bottom to secure the bottom and side members together.

1,922,433

SEWING MACHINE

Alfred Grieb, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey

Application March 21, 1932. Serial No. 600,237
5 Claims. (Cl. 112—184)

1. In a sewing machine, a frame including a bed having a flat horizontal upper surface and bearing lugs projecting downwardly therefrom, a reciprocating needle, a circularly moving hook, a vertical hook-shaft journaled in one of said lugs, a gear fixed to the lower end of said hook-shaft, a horizontal drive-shaft journaled in others of said lugs, a gear on said drive-shaft meshing with the gear on the hook-shaft, and a casing for said gears including a cup-shaped



element formed with a bulged body-portion and a rim-portion having an opening of less size than said bulged body-portion, said element enclosing the lower end of said hook-shaft.

1,922,434

METHOD OF INDEXING GLASS PHOTOMECHANICALLY

Karl Gundlach, Jena, Germany, assignor to the firm of Carl Zeiss, Jena, Germany

Application March 5, 1932, Serial No. 597,091, and in Germany March 13, 1931
1 Claim. (Cl. 95—5.7)



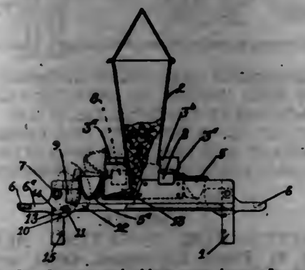
A method of photomechanically producing glass scales and the like, which consists in providing a glass body direct with a layer protecting against fluorhydric acid, this protective layer being of metal or metal combinations, in covering this protective layer with a light-sensitive layer, in photographically transmitting the scale to be produced onto the light-sensitive layer, in developing the light-sensitive layer, in removing the protective layer from those places which have not been exposed to light, in etching the glass at the said places, and, finally, in removing the light-sensitive layer and the protective layer on the other parts of the glass.

1,922,435

POULTRY FEEDER

Rex Harris, Colman, S. Dak.

Application November 16, 1929
Serial No. 407,665
10 Claims. (Cl. 119—52)



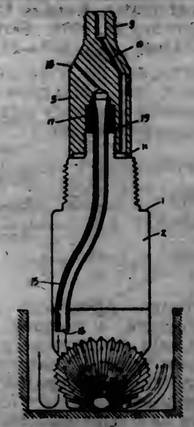
1. In a feeder, a stationary trough, a second trough movably mounted at one side of the stationary trough and adapted to tilt for discharging the contents of the second trough into the first trough, and a shiftable perch adapted to be lowered by weight applied thereto and operatively connected to the second trough for tilting the second trough with respect to the stationary trough.

1,922,436

FLUSHING DEVICE FOR WELL DRILLS

John A. Herrington, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas

Application May 4, 1931. Serial No. 534,717
6 Claims. (Cl. 255—71)



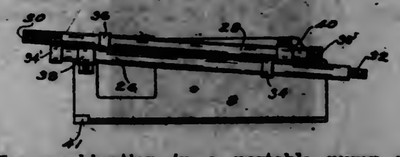
1. A well drill including a head longitudinally divided into two sections, the meeting faces of said sections having registering grooves to form a single water passage curved to discharge fluid at one side only at the lower end of said head, cutters on said head, a replaceable tube in said passage, a block on said tube above said head, means engageable with said head to clamp said block on said head and means to seal the connection of said block with said head.

1,922,437

COMPACT PORTABLE POWER PUMP

Earl W. Himberger, Seattle, Wash., assignor to Pacific Marine Supply Company, Seattle, Wash., a Corporation of Washington

Application April 30, 1930. Serial No. 448,472
1 Claim. (Cl. 103—218)



The combination in a portable pump unit with a base having at each side thereof a pair of spaced, axially alined, tubular brackets, of a pair of handle sections at each side of the base each section mounted to slide freely in a bracket, the sections of each pair being adapted for alinement parallel with the longitudinal axis of the base, a stop-cap on the outer end of each section and a spaced stop-collar on each section, and complementary fastening means on adjoining ends of each pair of sections.

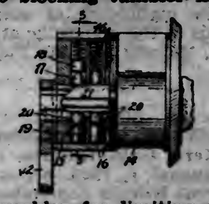
1,922,438

LOCK AND LATCH

Norman B. Hurd, Newington, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut

Application October 8, 1932. Serial No. 636,811
24 Claims. (Cl. 70—47)

1. In a cylinder lock, a body, a plug rotatable therein, a keyway in said plug, a locking tumbler, and a tiltable blocking tumbler independent of



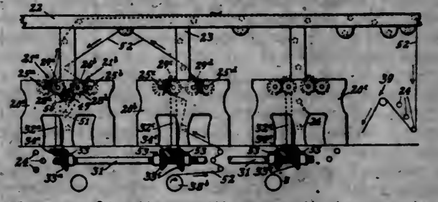
the locking tumbler for limiting the degree of rotation of the plug in one direction.

1,922,439

PRINTING PRESS

Paul E. Jackson, Los Angeles, Calif.

Application January 27, 1932
Serial No. 589,199½
1 Claim. (Cl. 270—5)



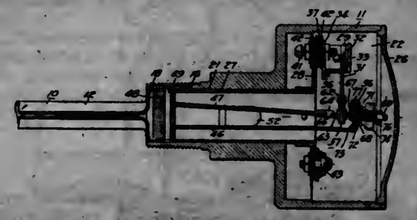
The combination with a unit type rotary printing press, of an idle wheel in the driving gear thereof adapted to reverse the normal rotation of one of the printing couples of the press so that a web may be caused to run through two or more printing couples each of which is supplied with ink of a different color, thus causing certain pages of a newspaper to be printed in two or more colors, the gearing of the press including, in combination with a driving shaft and a driven bevel gear mounted adjacent to said driving shaft to rotate in parallelism therewith, a pair of driving bevel gears slidably splined to said driving shaft in positions to be moved into and out of mesh with said driven bevel gear, said driving bevel gears being provided with means to releasably secure them in their adjusted positions.

1,922,440

ELECTRICAL HEATING APPLIANCE

Arthur J. Kercher, Berkeley, Calif.

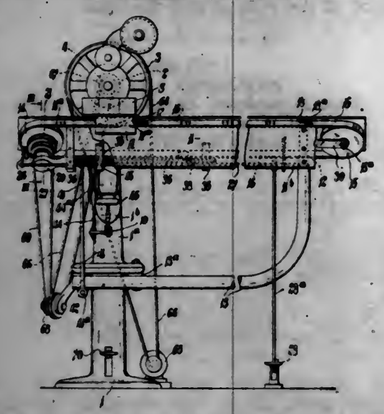
Application August 18, 1930. Serial No. 475,875
5 Claims. (Cl. 200—138)



1. A thermostat control device comprising a thermoresponsive switch, said switch comprising a pair of bimetallic strips, one end of each of said strips being relatively fixed and the other ends being free and adapted to move in opposite directions in response to a change in temperature, a toggle bridge member interconnecting the free ends of said bimetallic strips and adapted to be rocked in accordance with the relative movement between the strips, a contact carrying

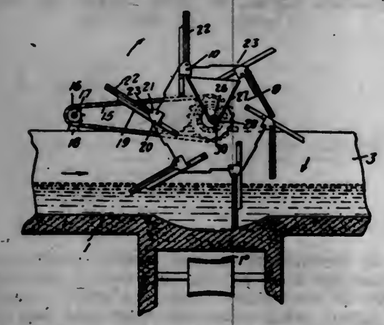
arm mounted on said toggle bridge, and means for varying the inclination of said bridge relative to the ends of the bimetallic strips on which it is mounted, thereby altering the operation of said switch.

1,922,441
STITCHING MACHINE
John Kerr, Galt, Ontario, Canada
Application August 1, 1929, Serial No. 382,780, and in Great Britain September 26, 1928
19 Claims. (Cl. 1—7)



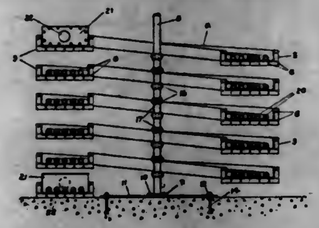
1. The combination with stitching mechanism including means for the operation thereof, of a single belt conveyor for feeding the articles to be stitched, adjustable controlling lugs arranged on said conveyor for controlling said feed and the operation of the stitcher, a sliding mechanism for the actuation of the stitcher operating means, and dogs longitudinally and pivotally adjustable on said sliding mechanism operable during the travel of the conveyor by engaging said lugs.

1,922,442
APPARATUS FOR REMOVING SOLIDS FROM SEWAGE AND OTHER FLUIDS
Raymond Rice Knight, Toronto, Ontario, Canada
Application June 1, 1931. Serial No. 541,331
4 Claims. (Cl. 210—74)



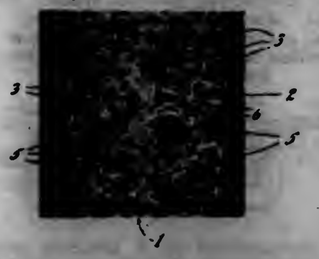
4. An apparatus for removing solids from sewage and other liquids comprising a rotating screen holder, screens pivotally mounted thereon, means for holding the screens rigid with the holder after assuming a depending position as they pass beneath the holder to a point of release over the holder and adapted when automatically released to fall forward, and impact on the holder as they pass over the holder.

1,922,443
HEAT EXCHANGE APPARATUS
Paul T. Kratzmaier, Kansas City, Kans.
Application February 29, 1932. Serial No. 595,731
3 Claims. (Cl. 257—242)



1. Heat exchange apparatus comprising a helical coil structure, a housing following the convolutions of said coil structure, said housing and coil structure being of materials sufficiently flexible for permitting the expansion or contraction of the combined assembly for varying the pitch or slope of said convolutions, and supporting means for maintaining said combined assembly in upright position and including means of adjustment to accommodate the changes in the pitch or slope of the assembly.

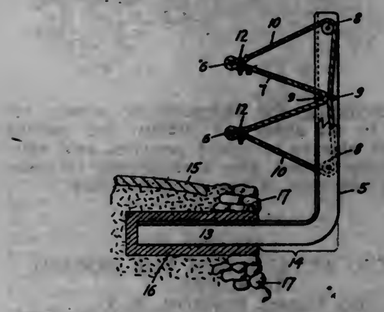
1,922,444
FABRIC AND METHOD OF MAKING THE SAME
Winfield S. Libbey, Lewiston, Maine, assignor to W. S. Libbey Company, a Corporation of Maine
Application May 3, 1933. Serial No. 669,160
12 Claims. (Cl. 91—68)



1. As a new article of manufacture, a resilient porous fibrous sheet comprising a fabric having a woven base and characterized by upstanding fibers and having a major portion of the upstanding fibers individually coated with vulcanized rubber conforming thereto and the amount of rubber contained in the fabric being sufficient to increase the resiliency of the individual fibers, said sheet being further characterized by air spaces distributed among the coated upstanding fibers whereby opportunity is afforded the resilient individual rubber coated fibers to flex under compression and thereby impart to the sheet a characteristic resiliency.

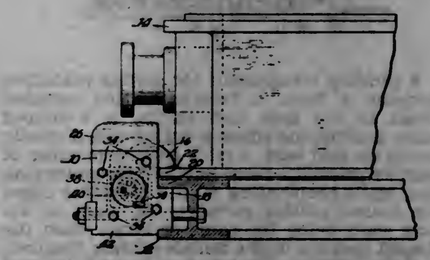
5. The method of making a resilient porous fibrous sheet which consists in applying to a textile fabric characterized by upstanding fibers, a fluid solution of vulcanizable rubber composition, in such amount as to permit the inherent resiliency in the upstanding fibers to cause them to spring back and to separate after the application of such solution and thereby cause the coating composition to conform to and coat a major portion of the individual fibers and simultaneously form a large number of air spaces distributed among the coated fibers, and thereafter causing the coating to harden.

1,922,445
HIGHWAY GUARD
Charles H. Macdonald, San Francisco, Calif., assignor to The Colorado Fuel and Iron Company, Denver, Colo., a Corporation of Colorado
Original application February 18, 1929, Serial No. 340,897. Divided and this application December 2, 1929. Serial No. 411,033
3 Claims. (Cl. 189—23)



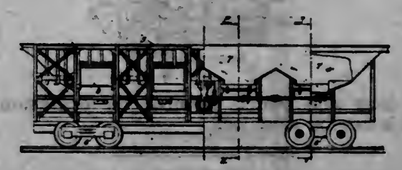
1. The combination with a road structure having at an edge of its surface, a downwardly ranging shoulder, of a post beyond said shoulder, having a laterally projecting foot, and a cementitious body in the structure, in which the foot is embedded.

1,922,446
CLAMPING DEVICE
Paul J. McCullough, St. Louis, Mo., assignor to Scullin Steel Co., St. Louis, Mo., a Corporation of Delaware
Application March 7, 1930. Serial No. 433,915
3 Claims. (Cl. 22—109)



1. A flask clamping device for molding machines comprising a pair of jaws, one of which is rigidly connected to a fluid pressure casing which is square in cross-section, a piston which is square in cross-section slidably mounted in said casing, said piston having a hole therethrough which is square in cross-section, the piston being slidably mounted on a piston rod which is helically shaped and square in cross section and which is rotated by longitudinal movement of the piston and which rotates the other jaw which is rigidly attached thereto.

1,922,447
TRANSFER
Ralph M. Miller, William J. Schenler, and Doyle A. Stout, Pueblo, Colo., assignors to The Colorado Fuel and Iron Company, Denver, Colo.
Application February 2, 1931. Serial No. 512,882
7 Claims. (Cl. 214—83)



1. In a transfer for railway transportation, a wheeled vehicle in the form of a car of the hopper type having a longitudinally arranged series of hopper bins provided with a longitudinal series of discharge openings, there being a discharge opening at and for the bottom of each bin, a longitudinally arranged series of transversely reciprocal feed plates, there being a feed plate at and for each discharge opening, a longitudinally extending main shaft located under or below said feed plates, a longitudinally arranged series of jack-shafts arranged along a side portion of the vehicle structure, there being a jack shaft for and corresponding to each feed plate, an eccentric crank construction on each jack-shaft and transversely extending rods having one end on an eccentric crank and operable thereby and having the other end pivotally connected to the transfer plate to which the jack-shaft corresponds, means comprising a disengageable clutch whereby at will any jack-shaft can be operated from and by said main shaft, and means comprising a motor and reducing gearing for operating said main shaft.

1,922,448
PRODUCTION OF EXPANDED VERMICULITE
Carl S. Miner, Glencoe, Ill., assignor to William J. Mohr, Chicago, Ill.
No Drawing. Application June 12, 1931
Serial No. 544,046
4 Claims. (Cl. 252—1)

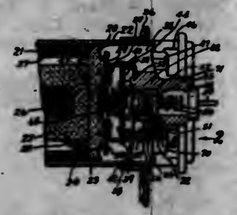
1. The method of explosively expanding a vermiculite, consisting in subjecting the vermiculite at a temperature exceeding 212° Fahrenheit to a pressure substantially greater than atmospheric and then suddenly releasing such pressure.

4. Expanded vermiculite characterized by the property that it is capable of being compressed both parallel to and at right angles to its cleavage planes without substantial disintegration.

1,922,449
LOCK CONTROLLER
Harry E. Norviel, Anderson, Ind., assignor to Delco-Remy Corporation, Anderson, Ind., a Corporation of Delaware
Application June 29, 1929. Serial No. 374,827
2 Claims. (Cl. 70—14)

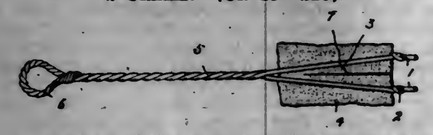
1. In a lock controller for an ignition unit having a switch member, a lock frame and a lock for actuating the switch member, the combination comprising, a coupling member carried by the lock frame and interposed between the lock and switch member, and means provided by the frame and cooperating with the coupling mem-

ber for preventing effective axial movement of the coupling member, said coupling connecting



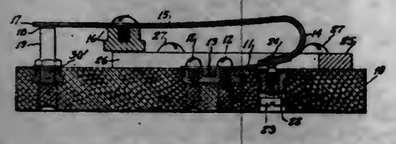
the lock and switch member for operation of the latter by said lock.

1,922,450
GAUGE ROD WIPER
George Ray O'Brien, Superior, Wis.
Application June 24, 1932. Serial No. 619,675
2 Claims. (Cl. 15—210)



1. A wiper of the type described comprising a handle and clamp member formed of twisted wire, the handle portion of which is tightly twisted and the clamping portion comprising two pairs of separated strands of the wire, and a single partly bifurcated wiping element held by the separated strands.

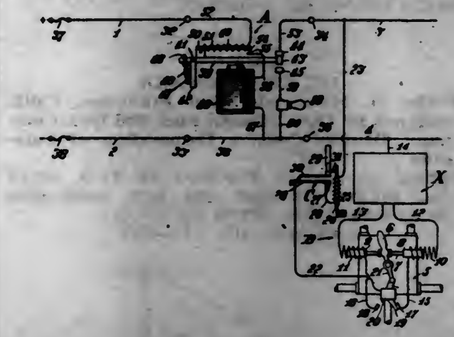
1,922,451
THERMOSTAT
Austin H. Osgood, Portland, Oreg., assignor of one-tenth to Laurence Selling, Portland, Oreg.
Application September 25, 1931
Serial No. 565,115
2 Claims. (Cl. 200—139)



1. A thermostat having an insulating base, a spring having one end mounted on said base, a bi-metallic element mounted on the free end of said spring, a contact post mounted on said base in the bath of movement of said bi-metallic element, an armature secured to said bi-metallic element between said post and spring, a horse shoe magnet secured against said base and having its poles in the path of said armature, and a screw for adjusting the tension of said spring.

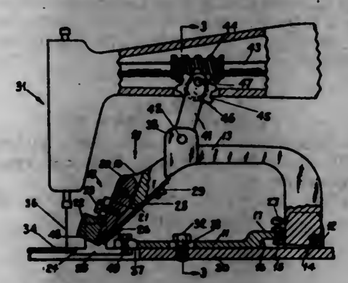
1,922,452
AUTOMATIC RECLOSING CIRCUIT BREAKER AND INDICATOR
Paul B. Parks, Oak Park, and Donald W. Miller, Elmhurst, Ill., assignors to Vaper Car Heating Company, Inc., Chicago, Ill., a Corporation of New York
Application May 5, 1932. Serial No. 609,436
11 Claims. (Cl. 175—294)

1. An automatically reclosing circuit breaker comprising a circuit-breaker element, means for normally holding this element in circuit-closing position, electro-magnetic means for moving the element to circuit-breaking position, and means for energizing the electro-magnetic means comprising a normally open circuit-



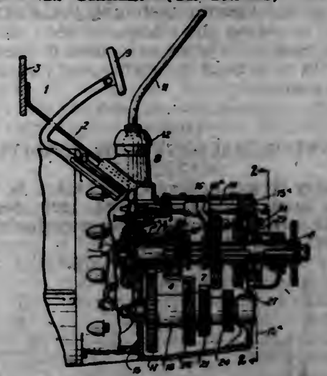
closure including the thermostatic means responsive to an abnormal current for moving the circuit closure to closed position, said electro-magnetic means also functioning to resist opening movement of the circuit-closure.

1,922,453
PINKING ATTACHMENT FOR SEWING MACHINES
Max Popper, Brooklyn, N. Y.
Application April 15, 1933. Serial No. 666,357
8 Claims. (Cl. 112—122)



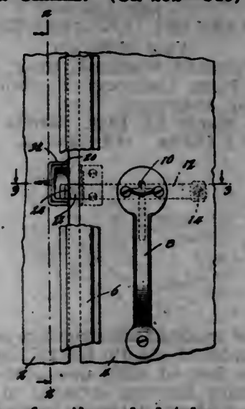
1. A pinking attachment for sewing machines comprising a base, a female cutting member fastened to the base and having a V-shaped opening and cutting edges, a cutter arm pivotally mounted on said base, a male cutting member of triangular prismatic form having two converging cutting walls cooperating with the cutting edges of the female cutting member, the angle of the cutting walls being the same or larger than the V-shaped opening in the female cutting member, said male cutting member being pivotally and angularly mounted on said cutter arm and adapted to be swung in and out of engagement and in inclined relation with said female cutting member, said female cutting member being undercut to permit said male cutting member to operate at said inclination, said female cutting member having guide members extending upwardly for maintaining the male cutting member in alignment, and resilient means acting against said male cutting member and causing a frictional pressure between the cutting edges of the male and female cutting members.

1,922,454
CONTROL AND LOCKING MECHANISM
Sidney C. Porter, Newell, W. Va.
Application July 18, 1929. Serial No. 379,265
12 Claims. (Cl. 192—4)



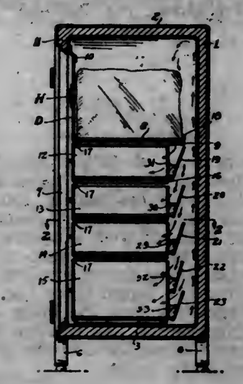
1. In apparatus of the class described, the combination with a shaft, of a member connected to and rotated by said shaft and having an annular series of ratchet teeth on one of its side faces, a pawl mounted to swing about a vertical axis and arranged to engage said ratchet teeth to lock said member against movement in one direction and disengage said teeth to permit its movement in the opposite direction, and a device frictionally engaging said member and controlled thereby and connected to said pawl for operating it according to the direction of movement of said member.

1,922,455
DOORLATCH
Charles P. Quigley, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut
Application March 9, 1929. Serial No. 345,769
2 Claims. (Cl. 292—340)



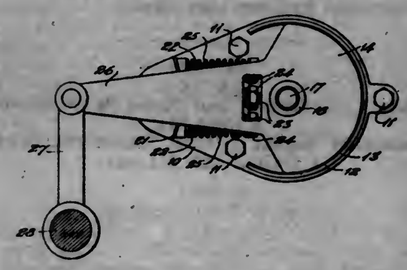
1. A strike for thrumb latches of the type described, adapted to be secured in a transverse groove in a door structure with one end thereof projecting beyond one side of the structure having a rear wall, horizontal side walls, and an end wall on said projecting end thereof, one of said side walls having an upwardly turned member forming a catch having its latching shoulder spaced from said end wall and arranged adjacent to and facing outwardly from the side of said door structure.

1,922,456
REFRIGERATOR
Edwin L. Powell, New Orleans, La.
Application March 16, 1933. Serial No. 661,158
10 Claims. (Cl. 62—66)



1. A refrigerator cabinet having top, bottom, side and rear walls, a partition having a section pivoted in said cabinet, and providing with said walls a cold air reservoir, a drawer having a wall thereof apertured, means in said cabinet supporting said drawer to slide into and out of the cabinet, and means on said drawer for moving said section to connect the interior of the drawer through the apertured wall thereof with said reservoir.

1,922,457
SHOCK ABSORBER
John Paul Rock, Duluth, Minn.
Application November 20, 1931
Serial No. 576,402
3 Claims. (Cl. 267—9)



1. In a shock absorber, an arcuate brake band fixed against movement, a brake head fitted in said brake band to engage the band and rock concentrically thereof, an arm extending from said head to rock therewith, a link carried by said arm and adapted to connect the arm to an axle, a stud spaced from said head and fixed against movement in respect to said band, a cam plate supported by said stud on the side next said head and having divergent wings at an obtuse angle to each other, guide tubes projecting from said plate toward said head, pins carried by the head and extending into said tubes telescopically, and springs surrounding said tubes and pins and urging them to protracted positions, said head being mounted to permit bodily movement toward and away from said brake band.

1,922,458
PROCESS FOR FILLING AN AMPULE
Walter Schaeffer, Frankfort-on-the-Main, Germany
Application October 20, 1930, Serial No. 490,099, and in Germany October 25, 1929
3 Claims. (Cl. 226—68)

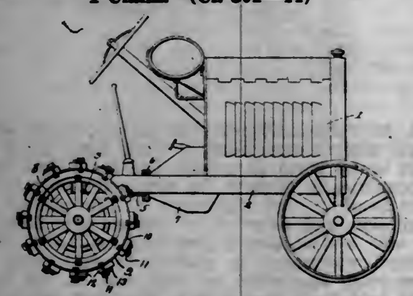


1. In the process of filling ampules in the presence of neutral gases the steps which comprise enclosing ampules having long capillary tubes in a gas tight container, evacuating said container and filling it with a neutral gas, feeding filling liquid into the container, filling the ampules by exhausting and readmitting the neutral gas, forcing the liquid from the lower part of the capillary tube into the body of the ampules by displacing the gas bubbles enclosed in the ampule and sealing the ampules at the lower end of the capillary tubes.

1,922,459
ETHERS OF POLYHYDRIC ALCOHOLS AND THEIR PRODUCTION
Otto Schmidt, Ludwigshafen-on-the-Rhine, and Egon Meyer, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany
No Drawing. Application March 21, 1928, Serial No. 263,588, and in Germany March 26, 1927
24 Claims. (Cl. 260—106)

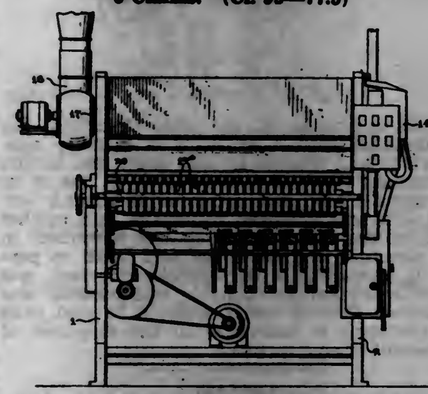
10. As products, viscous polyhydroxy alcohols, which alcohols contain more than 2 carbon atoms and oxygen solely in the form of hydroxyl groups, with part of the hydroxyl groups etherified by a monohydroxy alkyl group and at least one acylated hydroxy alkyl group.

1,922,460
TRACTOR
James L. Shadburn and Jason H. McMurray, Buford, Ga.
Application August 1, 1931. Serial No. 554,563
1 Claim. (Cl. 301—44)



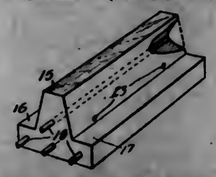
A driving wheel for a tractor including a rim having an annular channel and laterally extended annular flanges at the sides of the channel, separate non-resilient blocks seated in the channels and bearing at their ends against the respective sides thereof, said blocks being extended outwardly from the channel and being imperforate, obliquely disposed angle strips resting on the respective blocks and constituting cleats, each of these strips being extended beyond the respective ends of the block and the respective sides of the rim in which the blocks are seated, and bolts extending through the strips and the respective flanges of the rim for fastening the strip to the rim and to clamp the blocks between the strips and rim, said bolts being so located in the flanges of the rim as to hold the strips positively in their oblique position.

1,922,461
PRINTING MACHINE FOR SENSITIZED MATERIAL
Harry Hewes Sullivan, Rochester, N. Y.
Original application October 24, 1930, Serial No. 490,911. Divided and this application October 21, 1931. Serial No. 570,226
6 Claims. (Cl. 95—77.5)



1. In a printing machine for sensitized material, the combination with a light transmitting cylinder and illuminating means in said cylinder, of suction means for drawing cool air through the cylinder and around the illuminating means.

1,922,462
STREET MARKER, CONSTRUCTION FORM, AND SCREED
Jacob J. Tranchell, Portland, Oreg., assignor to Highway Form Company, Portland, Oreg., a Corporation of Oregon
Application March 25, 1931. Serial No. 525,252
1 Claim. (Cl. 94—1.5)



A form for roadway construction comprising a series of hardened plastic blocks having a central portion formed with upwardly converging sides, a narrow flat top surfaced to distinguish it from the roadway, laterally extending flanges along its edges forming a base and a support for re-enforcing material, longitudinal bores cast in said central portion and flanges, dowel rods positioned in said bores, said dowel rods being of the same length as said blocks and projecting from one end thereof forming a socket of corresponding length in the opposite end, and lateral openings formed in said central portion adjacent said flanges to receive transverse re-enforcing rods, substantially as set forth.

1,922,463
PROCESS OF DYEING AND THE DYED MATERIALS PRODUCED
Joseph Felix Turski, Warsaw, Poland
No Drawing. Application July 15, 1931, Serial No. 551,041, and in Poland February 14, 1929
27 Claims. (Cl. 8—5)

1. In the manufacture of dyed fabrics containing animal, vegetable or artificial fibers, the process which comprises impregnating such fabric with a solution of an amino compound of the anilide type having the probable formula:

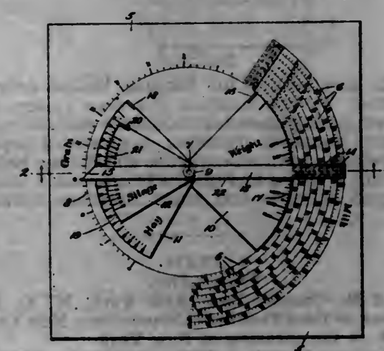
$$HO—R_1—\underset{\underset{O}{\|}}{C}—\underset{\underset{H}{|}}{N}—R_2—NH_2$$

wherein R_1 represents an aryl residue of the class consisting of benzene and naphthalene nuclei, or the residue of the enol component of a ketocarboxylic acid and R_2 represents an aryl residue of the class consisting of benzene and diphenyl nuclei, treating the so impregnated fabric with a diazotizing solution to diazotize and self-couple the said intermediate and form in situ the azo dyestuff thereby producing directly the dyed fabric.

1,922,464
PROCESS FOR REMOVING EMULSOIDS FROM WATER SOLUTIONS
Oliver M. Urbain, Columbus, Ohio, assignor to Charles H. Lewis, Harpster, Ohio
No Drawing. Application May 11, 1931 Serial No. 536,698
2 Claims. (Cl. 210—2)

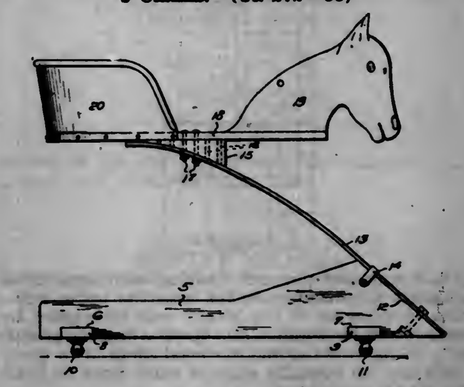
1. A process for removing emulsoids from water solution, comprising adding to the water solution a phenolic ester, and an electrolyte which will dissociate to give a cation of low valence and an anion of high valence.

1,922,465
CALCULATOR
Thompson E. Woodward, College Park, Md.
Application April 29, 1932. Serial No. 608,290
6 Claims. (Cl. 235—78)



1. In a calculator for livestock feed, a member provided with one or more graduated scales representative of the product to be obtained from the animal, and with a separate graduated scale representative of quantities of a basic feed; a graduated scale representative of varying animal weights; and a member arranged through movement relative to said product and weight scales to indicate upon said basic-feed scale the quantity of such basic feed necessary to provide the most economic nutrition of an animal of given weight.

1,922,466
EXERCISING AND AMUSEMENT DEVICE
Edna Yoes, Oklahoma City, Okla.
Application October 10, 1931. Serial No. 568,139
3 Claims. (Cl. 272—55)



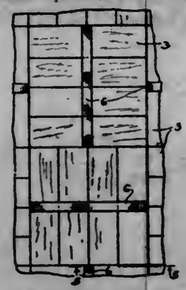
1. A device of the character described comprising a horizontally disposed base member having its front face so formed as to present a straight line lying at an angle of substantially 45 degrees with respect to the horizontal, a wheeled mounting for said base member, a flat leaf spring lying in snugly contacting relation to the angle front end of said base member, fastening devices for resisting movement of said spring away from said inclined face substantially throughout the length of the latter, a platform having a seat at its rear end, and an imitation horse's head at its forward end, and an adjusting means connecting the platform with the free end of the leaf spring, comprising a triangularly shaped block having a group of holes formed therethrough in a longitudinal row, and fastening devices passing through said holes and through said platform and through said spring, said holes exceeding said fastening devices in number whereby through adjustment of the longitudinal position of said block with respect to the seat platform, the inclination of the seat platform with respect to the spring may be adjusted.

1,922,467
SULPHURIZED PHENOL
Alfred Bergdolt, Vohwinkel-Hammerstein, and Fritz Ballauf, Elberfeld, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware
No Drawing. Application September 4, 1930, Serial No. 479,788, and in Germany September 6, 1929
16 Claims. (Cl. 260—20)

1. The process which comprises melting together sulphur, an at least equimolecular quantity of a monohydric phenol, an alkali metal carbonate in an amount of at least ½ of the quantity of the phenol taking part in the reaction in the presence of a small amount of water, until the reaction product has become completely soluble in water.

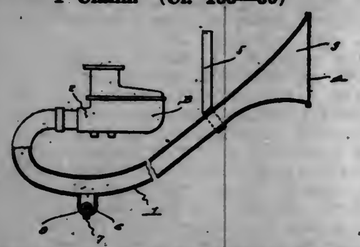
9. As new products sulphurized derivatives of phenols, obtained in accordance with the process as claimed in claim 1, being yellowish colored substances, soluble in water, and being valuable mordants for basic dyestuffs.

1,922,468
PARQUET FLOORING
Arthur B. Birtles, Louisville, Ky., assignor to Wood-Mosaic Co., Louisville, Ky., a Corporation of Kentucky
Application June 16, 1932. Serial No. 617,661
5 Claims. (Cl. 20—6)



1. A unit for parquet flooring composed of a plurality of blocks of wood with the grain running lengthwise of the blocks and connected to each other by tongue and groove joints, and a strip of narrow flexible material secured to each block and on opposite sides of each block to hold the blocks assembled.

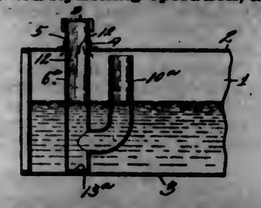
1,922,469
SUPERCHARGER FOR CARBURETORS
James H. Borthwick, Honolulu, Territory of Hawaii
Application December 7, 1932. Serial No. 646,206
1 Claim. (Cl. 183—36)



In combination with an internal combustion motor of a motor vehicle including a carburetor and fan, a tubular member having its rear end curving upwardly and forwardly with its extremity connected with the air intake of the carburetor, the front portion of the member curving upwardly with its front portion enlarged and opening out adjacent the rear part of the fan, a screen covering the said front end, the remaining part of the tubular member being bowed downwardly and having a depending portion at its lowest point, of substantially inverted dome shape and terminating in a depending discharge nipple, said depending portion forming a water collecting chamber and a buoyant valve in said depending part.

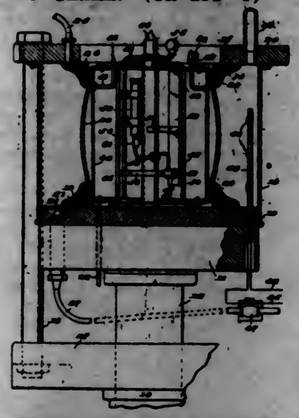
1,922,470
ATTACHMENT FOR GASOLINE TANKS
Joseph S. Bowers, Tulsa, Okla.
Application March 24, 1932. Serial No. 601,035
1 Claim. (Cl. 220—86)

The combination with the top of a gasoline tank, the bottom of the gasoline tank, of a theft prevention device, said theft prevention device comprising a vertically disposed tubular member carried by the top and terminating adjacent the bottom of the tank, an aperture in the lower end of said tubular member, said tubular member adjacent the top being perforated of a size whereby liquid will flow into and from the tubular member in a relatively small volume thereby preventing a sustained siphoning operation, a branch tu-



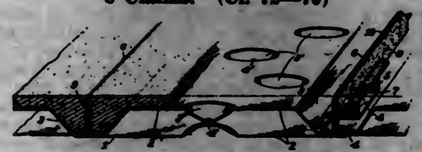
bular pipe carried by the first mentioned pipe and extending upwardly towards the top of the tank and forming a discharge means for the device into the tank adjacent the top of the tank and above the perforations.

1,922,471
APPARATUS FOR MANUFACTURING RUBBER TIRE TUBES
John F. Cavanagh, Pawtucket, R. I., assignor to William Wallace Potter, Pawtucket, R. I.
Application October 15, 1930. Serial No. 488,932
6 Claims. (Cl. 154—9)



3. In mechanism for forming hollow articles of rubber, the combination of a seam closing device comprising opposing relatively movable article-edge engaging members, a source of supply of substance for application to the rubber before the seam is closed and means to move said source of supply towards and from the seam forming edges.

1,922,472
FLOORING
Harold B. Chamberlain, New York, N. Y., assignor to Tuco Products Corporation, New York, N. Y., a Corporation of New York
Application March 5, 1932. Serial No. 597,065
8 Claims. (Cl. 72—70)



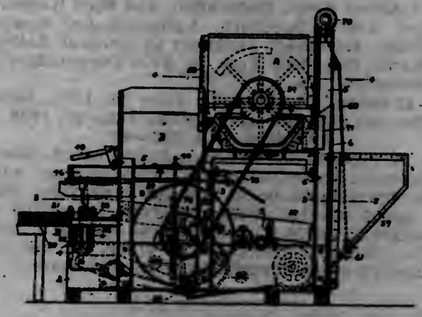
5. A sub-floor including hollow steel truss plates having channel formations between said

plates, expansion strip supporting means secured in certain of said channels, metal expansion strips having an elastic composition thereon resting on said supporting means, the upper marginal edges of said strips, however, being free of said composition.

1,922,473
METHOD OF PRODUCING PLASTIC MASSES, PETRIFYING AFTER THE SETTING
Hans Rudolph Schmedes de La Roche, Bremen, Germany
No Drawing. Application January 30, 1931, Serial No. 512,566, and in Germany June 26, 1930
4 Claims. (Cl. 91—68)

1. The process of preparing a waterproofed Sorel-cement mass which consists in providing a filler of inert material mixed with one of the group consisting of magnesium oxide and magnesium carbonate, mixing calcium chloride therewith, treating the mixture with a solution of magnesium chloride, forming the mass and allowing the same to harden, and treating the exterior of the hardened mass with a fluorine compound capable of forming calcium fluoride to cause formation of the latter.

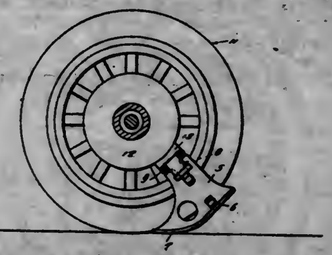
1,922,474
MACHINE FOR MOLDING AND PRESSING BRICKS OR BLOCKS
Charles M. Eberling, Cleveland, Ohio
Application October 10, 1931. Serial No. 568,145
7 Claims. (Cl. 25—37)



1. A machine for molding and pressing bricks or blocks, comprising a frame, a stationary mold box open at its top and bottom mounted on said frame, a horizontally shiftable and vertically yielding top plate for said mold box slidably mounted in said frame, a vertically shiftable bottom for said mold box and means to shift said bottom to differently stepped elevations for compressing the contents of said box when said top plate closes said mold box and for stripping the compressed product, when the top of said mold box is open.

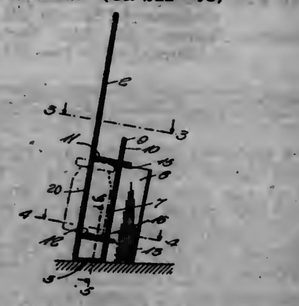
1,922,475
AUTOMOBILE JACK
Harry A. Elwell, Danville, Ill.
Application April 6, 1932. Serial No. 603,658
5 Claims. (Cl. 254—94)

1. A vehicle wheel raising jack comprising a base member, a web rising from said base member, a laterally extending head provided adjacent the upper end of said web, and provided with a recess, an arm provided with a lug engaging said recess, a lug having a slotted base member through which said arm extends, said lug being adapted to engage the inner ends of adjacent



spokes of the wheel, and means for clamping the lug on said arm.

1,922,476
DISPLAY HOLDER
Clarence T. Fairbanks, Chicago, Ill., assignor to Edwards & Deutsch Lithographing Company, Chicago, Ill.
Application March 14, 1932. Serial No. 598,807
8 Claims. (Cl. 211—73)

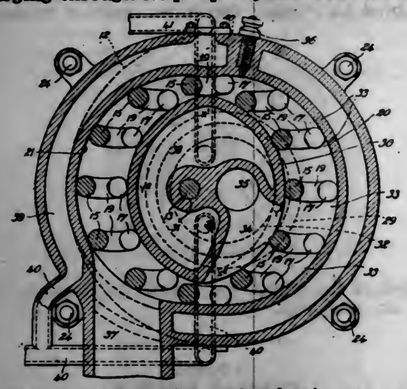


1. A display device comprising a body formed with an opening of less width than the diameter of an article to be displayed, a base for said body, an upright rising from said base back of the body, a support for the article to be displayed, extending rearwardly from the body at the lower end of said opening and releasably engaged with said upright, and a flap extending rearwardly from said body and releasably engaged with the upper end portions of said upright, the upright when engaged with said flap serving to force the article forwardly upon the support and hold the article in place with a portion wedged into the opening.

1,922,477
CONSTRUCTION OF MOTIVE POWER ENGINES AND PUMPS
Herbert Charteris Flind, Wimbledon, England
Application June 7, 1930, Serial No. 459,726, and in Great Britain June 18, 1929.
2 Claims. (Cl. 122—8)

2. A rotary engine comprising two plates mounted eccentrically relative to each other for rotation in parallel planes, pins projecting from each plate to the other plate, the pins on each plate being arranged in a circle concentric with the axis of rotation of the plate, partitions each extending entirely across the space between corresponding pins and having its side edges partly encircling the respective pins to be carried pivotally thereby, and inner and outer casings disposed between the plates and defining an annular chamber containing said pins and partitions, the inner casing having an inlet port dis-

charging through its periphery into said annular



chamber, and the outer casing having an outlet port leading from said chamber.

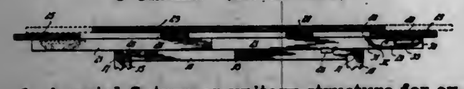
1,922,478

EXTENSION TABLE

Martin Fox, Chicago, Ill., assignor to The Seng Company, Chicago, Ill.

Application February 15, 1932. Serial No. 593,115

8 Claims. (Cl. 45—113)



1. A metal fixture or unitary structure for extension tables comprising plates attachable to the leaf and slide of the table, and means connecting the plates for swinging movement one upon the other consisting of a pin and slot connection at one end of said fixture and a link connection at the other end thereof.

1,922,479

ADJUSTABLE CONCRETE INSERT

Pliny N. Joslin, De Kalb, Ill.

Application July 10, 1929. Serial No. 377,153

3 Claims. (Cl. 72—105)



1. The combination with a concrete insert including a dish-like member with flattened sides and a retaining flange; of a plate mounted in the member spaced from the bottom thereof, said bottom having a slot therein, and means to detachably secure the device to a mold form including a resilient strip having means for securing it to the form and having oppositely curved resilient tongues bent up therefrom to resiliently and detachably engage the edges of the wall at the ends of the slot to secure the insert in position during the pouring and setting of the concrete and adapted to be disengaged therefrom.

1,922,480

MANUFACTURE OF AMINO-HYDROXY-ANTHRAQUINONES

Erich Koehler, Leverkusen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application June 27, 1930, Serial No. 464,419, and in Germany June 28, 1929

10 Claims. (Cl. 260—59)

1. In the process of preparing aminohydroxyanthraquinones the step which comprises causing an acyl amino phenol, which may be substituted in the hydroxy group by an alkyl group and in the nucleus by a substituent of the group consisting of halogen atoms and alkyl groups, but containing two unsubstituted vicinal positions, to act on at least equimolecular quantity of phthalic acid anhydride which may be substituted by halogen at a temperature between 100 and 200° C. in the presence of a condensing agent for half an hour to several hours.

1,922,481

PRODUCTION OF HALOGEN DERIVATIVES OF DIBENZOPYRENE QUINONES

Max Albert Kunz, Mannheim, and Karl Koeberle and Erich Berthold, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application January 4, 1930, Serial No. 418,647, and in Germany January 12, 1929

8 Claims. (Cl. 260—61)

5. As new compounds, 3.4.8.9-dibenzopyrene-5.10-quinones containing at least one atom of halogen dissolving in concentrated sulphuric acid to give violet solutions crystallizing in orange needles from high boiling organic solvents and dyeing cotton strong yellow orange shades from bluish red vats, the colouring power of said products being substantially higher than that of 3.4.8.9-dibenzopyrene-5.10-quinone.

1,922,482

HALOGENDIBENZOPYRENEQUINONES

Max Albert Kunz, Mannheim, and Karl Koeberle and Erich Berthold, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application June 25, 1930, Serial No. 463,522, and in Germany June 27, 1929

8 Claims. (Cl. 260—61)

1. A process of producing halogenated dibenzopyrenequinones, which comprises treating a dibenzopyrenequinone in aqueous suspension with an agent selected from the group consisting of chlorine, bromine and compounds capable of supplying bromine and chlorine which are not decomposed when brought together with water.

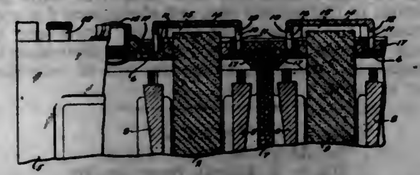
1,922,483

PRIMARY ELECTRIC CELL

Robert H. Lapides, Lakewood, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York

Application October 22, 1930. Serial No. 490,503

4 Claims. (Cl. 136—86)



1. A primary cell of the air-depolarized type having a cover, an air-permeable electrode subject to impairment by water protruding through said cover and an electrode-cover surrounding and spaced from the exposed portion of said electrode, said electrode-cover having an imperforate top to prevent access of water to the electrode and being provided with apertures at the side to allow the circulation of air therethrough.

1,922,484

EXTRACTING OIL FROM ANIMAL TISSUE AND THE LIPOID SUBSTANCES BY PAPAIN DIGESTION

Leslie William Mapson and John Thomson MacCurdy, Cambridge, and Harold Omar Nolan, London, England, assignors to Cambio Products Limited, London, England, a British Company

No Drawing. Application August 15, 1932, Serial No. 628,892, and in Great Britain July 23, 1931.

2 Claims. (Cl. 87—6)

1. The process of treating animal tissue containing lipoid substances which comprises digesting the animal tissue with an aqueous solution of papain, the acidity during digestion being approximately pH 4.5 to pH 5, separating the fat from the aqueous digestion products, treating the fat with an alkali to saponify at least a part of the fat, the hydrogen ion concentration during this step being approximately pH 8.5 to pH 9, and then, after saponification, adding approximately 1 to 10 percent of an oil, fat or wax to dissolve lipoid substances from the saponified fat and separating the solution of lipoid substances.

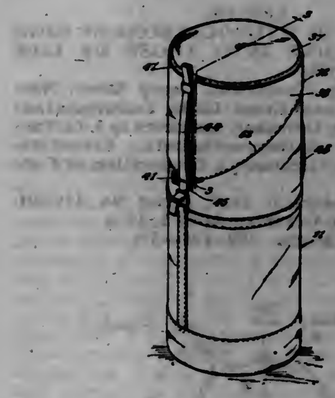
1,922,485

ICE CREAM SHIPPING BAG

Ray McKee, deceased, late of Hastings, Nebr., by Minerva Edith McKee, Hastings, Nebr, executrix

Application June 15, 1931. Serial No. 544,575

2 Claims. (Cl. 150—52)



1. A closure for insulating containers comprising, an insulated cover, said cover having internal reinforcing frames formed of stiff wire to retain the shape of the cover, said cover having a marginal flange forming a grip, a hood for retaining said cover closed, said hood comprising an insulated top adapted to bear against said cover, and a skirt depending from the marginal edge of said top, said skirt being obliquely cut away from the front edge thereof towards the rear edge thereof, a hinge for said skirt at the rear edge thereof, said skirt being slit vertically at the front portion thereof, the marginal edges of said slit portion overlapping, an eye carried by one said marginal edges, a strap carried by the other of said marginal edges passing through said eye to hold said edges overlapping, and a buckle receiving the free end of said strap whereby said hood is held firmly closed.

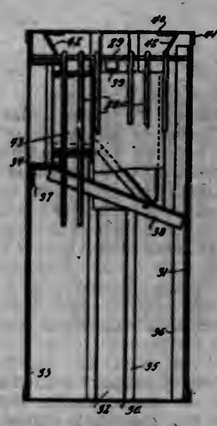
1,922,486

STRONG BOX

Charles F. Mellink and Kenneth C. Weatherby, Toledo, Ohio, assignors to the Mellink Steel Safe Company, Toledo, Ohio, a Corporation of Ohio

Application May 7, 1931. Serial No. 535,590

5 Claims. (Cl. 109—1)



1. For a safe adapted to be assembled in a protective housing, said safe having an inner vertical wall having a port, and an inner chamber having a chamber bottom inclined downward away from the port into the housing.

3. A safe comprising a strong box, and a metal shell therefor including periphery flanged top and bottom sections, an intermediate section over which the top and bottom sections telescope, there being continuous to the strong box a countersink throat shell portion in the intermediate section nearer the top than the bottom section of the shell with the shell sections therebelow forming a pedestal, said throat providing an entrance way to the strong box housed in the shell, and a loading reinforcement in the shell about the strong box positioning the box as to the shell.

1,922,487

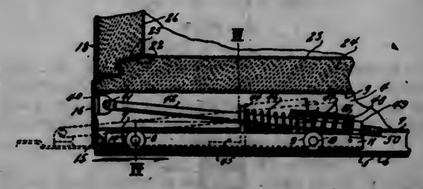
CABINET

Charles F. Mellink, Toledo, Ohio

Application September 28, 1931

Serial No. 565,443

7 Claims. (Cl. 312—189)



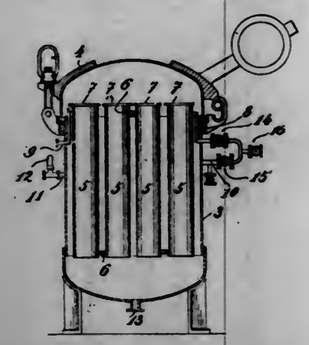
1. A cabinet having an opening, a door therefor, mechanism coacting in door operation embodying a movable carriage, a way therefor, said door hinged to the carriage, counter-poise means for the door comprising a bar extending from the door and spaced from the hinge to form a third class lever connection to the door, a guide for the bar, and a spring coacting with said bar and guide for effecting balanced door movement.

1,922,488

PROCESS AND APPARATUS FOR PREPARING RESPIRATION BATHS

Franz Mengering, Magdeburg, Germany

Application January 28, 1930, Serial No. 424,072, and in Germany January 31, 1929
6 Claims. (Cl. 167—3)



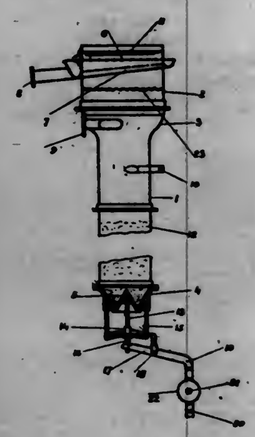
3. The process of preparing media for medicinal inhalation or vapor baths, comprising the heating of the raw materials containing medicinal constituents at a temperature above 100° C., and serially passing a heated extraction fluid over said materials disposed in a series to derive said constituents in a nascent state.

1,922,489

MEANS FOR THE SEPARATION AND CONCENTRATION OF THE CONSTITUENTS OF HETEROGENEOUS EMULSIONS, OR SUSPENSIONS

Pierre Ernest Mercier, Neuilly sur Seine, France, assignor to Compagnie Industrielle Franco-Africaine, Alger Parc, Gatlif, Algeria, a Company of France

Application October 9, 1930, Serial No. 487,626, and in France October 12, 1929
2 Claims. (Cl. 209—160)



1. An apparatus for separating the constituents of heterogeneous suspensions comprising a container, a passage for introducing the suspension arranged at substantially the center of the container emptying toward the bottom of said container, discharge means for the lightest components and liquid in the upper part of said container, comprising means having perforations for the discharge of the liquid arranged substantially in a horizontal plane appreciably below the level of the liquid and distributed in such manner that in this plane the quantities of liquid passing off per unit of surface in the discharge plane are the same and said container being extended above the discharge and adapted to maintain a free liquid level substantially above said discharge means.

1,922,490

SEPARATION OF METALS FROM ORES

Ernest B. Miller and Gerald C. Connolly, Baltimore, Md., assignors to The Davison Chemical Company, Baltimore, Md., a Corporation of Maryland

No Drawing. Application March 30, 1931
Serial No. 526,552
5 Claims. (Cl. 23—117)

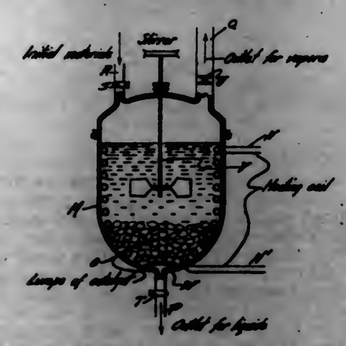
1. In the process of separating cobalt from an ore containing a plurality of metal compounds, the steps comprising roasting the ore at a temperature below that at which the sulphate of cobalt decomposes but above that at which another metallic sulphate content decomposes, and while at that temperature introducing a gas consisting substantially exclusively of sulphur trioxide into the mass.

1,922,491

CONVERSION OF HYDROCARBONS OF HIGH BOILING POINT INTO THOSE OF LOW BOILING POINT

Alwin Mittasch, Mannheim, Georg Stern, Neckargemund, and Ernst Galle, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany

Application March 29, 1927, Serial No. 179,391, and in Germany April 1, 1926
6 Claims. (Cl. 196—52)



1. In the conversion of hydrocarbons of high boiling point into liquid hydrocarbons of lower boiling point in the liquid phase at a temperature between about 300° and 450° C. the step which comprises heating the said materials in a space confined by a material selected from the group consisting of free titanium, tantalum and alloys of tantalum.

1,922,492

PROCESS OF PRODUCING HYDROCYANIC ACID

Edward Münch, Fritz Nicolai, Reinhold Fick, and Walter Reppe, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany

No Drawing. Application February 29, 1924, Serial No. 696,071, and in Germany March 1, 1923
8 Claims. (Cl. 23—151)

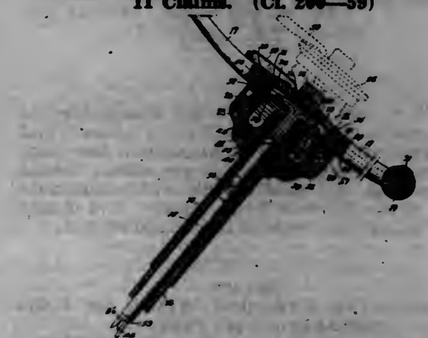
1. The process of manufacturing hydrocyanic acid which consists in passing formamid together with a gas inert to formamide over a catalytic mass at a temperature of between about 200 degrees and 600 degrees centigrade.

1,922,493

STEERING WHEEL ASSEMBLY

Howard J. Murray, New York, N. Y., assignor to R. M. Company, Inc., East Pittsburgh, Pa., a Corporation of Delaware

Application April 7, 1931. Serial No. 528,360
11 Claims. (Cl. 200—59)



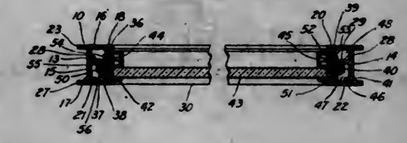
1. In a vehicle steering mechanism, the combination of three telescoped tubular members, the outer member being fixed and constituting a steering post, the intermediate member mounted thereon for rotary movement and constituting a steering column provided at its upper end with a steering wheel, and the inner member mounted for limited rotary movement and constituting a control shaft projecting beyond opposite ends of the steering column, a mechanism control arm demountably secured to the lower end of the control shaft and acting to prevent accidental shifting of the control shaft axially in the steering column, said steering wheel provided with a hub having an opening extending therethrough, a spider secured to the underside of the hub and provided with an annular recess open at its top through the opening in the hub, said control shaft provided at its upper end with a cap closing the open top of the hub, two axially spaced annular contact rings carried by the spider and exposed to the inside of said recess, a pair of spring contact elements carried by and rotatable with the cap, one in bearing engagement with one of said rings, and the other in bearing engagement with the other ring and said spring contacts and rings coacting to form a pair of sliding contacts, means for forming three electric circuits, operable independent of each other, two of said circuits each including in order a lead in the steering wheel, one of said sliding contacts, and a lead extending through the control shaft, and the third circuit including a third lead extending through the control shaft and a circuit closer centered at the top of the closure cap.

1,922,494

CASEMENT WINDOW

Alfred Walter Nelson, Pelham Manor, N. Y.

Application August 15, 1931. Serial No. 557,231
15 Claims. (Cl. 189—65)



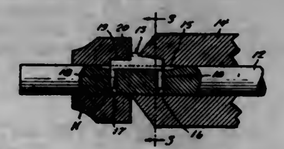
1. A metal casement window and the like including, in combination, an outer frame and a sash, said frame including inner, intermediate and outer flange portions parallel with the window opening, and said sash including flange portions arranged to abut directly against the inner and outer flanges of said frame and an intermediate flange portion overlapping the intermediate flange of said frame, said outer frame including an offset portion forming a recess extending around the outer flange of said sash whereby to provide an interlocking joint at the latter's point of meeting with the frame, and resilient sealing means on one of said intermediate flanges adapted to abut against the other and be compressed therebetween.

1,922,495

ROLLER AND KEY FOR PRINTING PRESSES

Fred Ossing, Cleveland, Ohio

Application May 15, 1931. Serial No. 537,568
3 Claims. (Cl. 101—348)



1. An inking roller construction including, a shaft, a key associated with said shaft, said key and said shaft including means whereby said key is held against motion with respect to the shaft, a guide roller on said shaft and provided with a keyway adapted to receive said key, said key being provided with means adapted to abut said guide roller for positioning the same, said key being received substantially entirely within said guide roller.

1,922,496

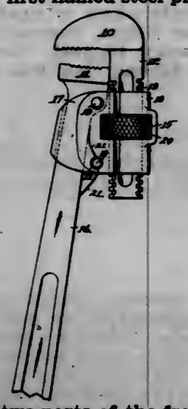
PIPE WRENCH

Louis E. Peck, Greenfield, Mass., assignor to Mechanics' Tool & Wrench Company, Greenfield Mass., a Corporation of Massachusetts

Application January 2, 1931, Serial No. 506,047
Renewed February 14, 1933
2 Claims. (Cl. 81—105)

1. A pipe wrench having two jaws, a handle on one jaw and a screw-threaded shank on the other, and provided with a nut on the screw-thread, a frame having a slot for the nut, said frame comprising a piece of sheet steel bent into U-shaped form extending around the handle and a second piece of U-shaped sheet steel extending around the screw-threaded shank, project-

ing outside the first named steel piece, and rivet-



ed thereto, the two parts of the frame being pivotally connected with the handle.

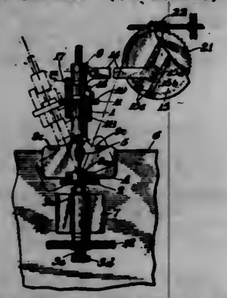
1,922,497

METHOD AND MACHINE FOR MAKING WIRE-DRAWING DIES, ETC.

John E. Peterson and Emil A. Van Beke, North Bergen, N. J., assignors to Eisler Electric Corporation, Newark, N. J., a Corporation of Delaware

Application July 21, 1930. Serial No. 469,381

2 Claims. (Cl. 51—33)



1. In combination, a rotary work supporting table and means for rotating it, a pivotally supported drill head and means for oscillating it on its pivot axis, and a drill spindle journaled in the drill head transverse to the pivot axis of the drill head and being furthermore mounted to longitudinally reciprocate in the drill head, and a tool carried by the spindle and extending across the pivot axis of the drill head to have a double coning operation on the work-piece without changing the set-up thereof, assisted by the relative rotation of the spindle and the work table and the oscillation of the drill head and spindle.

1,922,498

METHOD AND MACHINE FOR MAKING WIRE-DRAWING DIES, ETC.

John E. Peterson and Emil A. Van Beke, North Bergen, N. J., assignors to Eisler Electric Corporation, Newark, N. J., a Corporation of Delaware

Original application July 21, 1930, Serial No. 469,381. Divided and this application April 17, 1931. Serial No. 530,912

2 Claims. (Cl. 51—32)

1. In combination, a work-supporting rotary table having a hollow stem and a communicating axial hole through the table; a machine head supported to swing about an axis adjacent the level of the work-piece on the table; a spindle journaled for rotation in said machine head as well as for simultaneous endwise movement towards and away from the rotary table; a wire extending through the hole in the table and



its hollow stem, said wire being attached by its upper end to the spindle and having its lower end anchored with provision for yielding in directions endwise of said wire and for swivelling; means co-operating with said spindle which intermittently effects its endwise movement; and means for swinging the machine head as aforesaid.

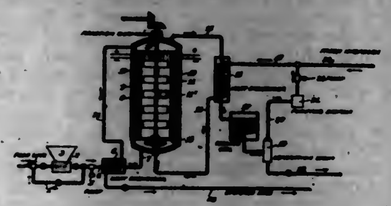
1,922,499

DESTRUCTIVE HYDROGENATION OF CARBONACEOUS MATERIALS

Mathias Pier, Heidelberg, and Walter Simon, Ludwigshafen - on - the - Rhine, Germany, assignors, by mesne assignments, to Standard I. G. Company, of Linden, N. J., a Corporation of Delaware

Application September 9, 1929, Serial No. 391,509, and in Germany September 24, 1928

5 Claims. (Cl. 196—53)



1. A process for the production of valuable liquid hydrocarbons from a distillable carbonaceous material which comprises subjecting said material to destructive hydrogenation with hydrogen under a temperature and pressure suitable for the conversion and in the presence of a catalyst which comprises at least three different constituents, one being selected from the class consisting of the oxides of zinc and magnesium and the sulphide of zinc and the other two being different compounds selected from the class consisting of the oxides and sulphides of nickel and cobalt and the oxides of vanadium and of the metals of the sixth group of the periodic system.

1,922,500

FUSE HOLDER

Clarence G. Pierce, Houston, Tex.

Application April 21, 1930. Serial No. 445,872

4 Claims. (Cl. 200—113)



4. A fuse holder including elastic means to hold the fuse, said means being expansible to have the fuse passed therethru, and a handle on said means.

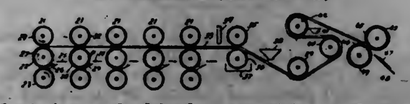
1,922,501

BUILDING PRODUCT AND METHOD OF MAKING THE SAME

Thomas Robinson, New York, N. Y., assignor to Lancaster Asphalt, Inc., New York, N. Y., a Corporation of Delaware

Original application July 10, 1928, Serial No. 291,638. Divided and this application November 23, 1929. Serial No. 409,300

23 Claims. (Cl. 154—2)



1. A tapered shingle comprising a hardened plastic substance and unfelted fibre, the proportion of fibre to plastic substance varying from end to end of the shingle, with the greatest proportion of unfelted fibre being near the thin end.

15. A method of producing roofing elements which comprises uniting under pressure a sheet composed of an intimate mixture of unfelted fibre and plastic material and a layer of a mixture of unfelted fibre and plastic material having a lower ratio of unfelted fibre to plastic material than that of the said sheet, applying a coating of surfacing material to a face of the resultant composite sheet, and cutting elements of selected size from the sheet.

1,922,502

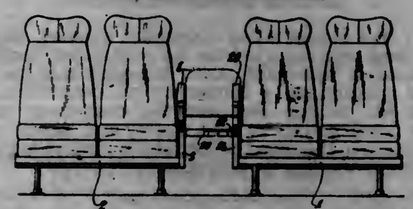
AISLE SEAT FOR BUSSES

George H. Scragg, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware

Application December 10, 1930

Serial No. 501,260

6 Claims. (Cl. 155—33)



2. A seat having separately movable back and seat portions, means to mount the portions in operative relationship, means on the mounting means to journal the back portion about a vertical axis to accommodate axial movement thereof, means on the mounting means to journal the seat portion about a horizontal axis to accommodate axial movement thereof, means on the mounting means to turn the seat portion radially as it is moved axially away from the back portion, and means to turn the back portion radially as it is moved axially away from the seat portion whereby the portions are maintained in normal positions and the effective size of the resulting seat structure is increased when the portions are moved into seating position.

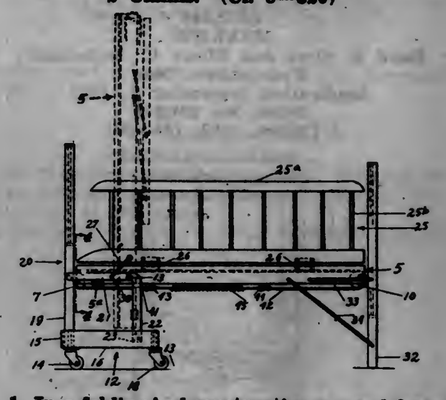
1,922,503

BED CONSTRUCTION

Anton V. Sedlock, Los Angeles, Calif.

Application November 5, 1932. Serial No. 641,414

2 Claims. (Cl. 5—320)



1. In a folding bed construction, an end frame, a main frame pivotally connected with said end frame, a side frame pivotally secured to said main frame, said side frame being positioned to aid in keeping the bed covers in place, and a link operatively connecting said side frame with said end frame whereby the swinging of said main frame to an operative position causes said side frame to assume an upright position with relation to said main frame and the reverse movement of said main frame causes said side frame to assume a folded position.

1,922,504

CABINET CONSTRUCTION

Herbert Smith, Clinton, Mass., assignor to Edward C. Bowers and Charles L. Feldman, Receivers for Wickwire Spencer Steel Company, New York, N. Y., a Corporation of Delaware

Application April 29, 1932. Serial No. 608,155

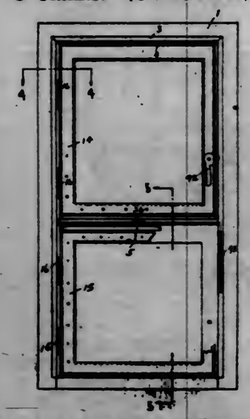
1 Claim. (Cl. 312—189)



A cabinet having an opening in its front wall, a sill across the bottom of the opening, a cross mem-

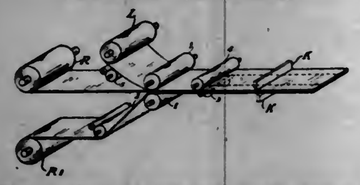
ber at the top of the opening, vertically disposed flanges at opposite sides of the opening, stops behind said flanges and extending into the opening, a closure for the opening formed as a plain panel adapted to rest against said stops when in position, clips at the lower edge of the panel engaging the sill, clips at the upper edge of the panel engaging the cross plate, and a removable cover for the cabinet having a depending flange to engage said last named clips and retain the panel in place.

1,922,505
WINDOW
Boyd A. Stere and Elmer C. Ausnehmer, Youngstown, Ohio
Application September 7, 1932
Serial No. 631,952
5 Claims. (Cl. 189—66)



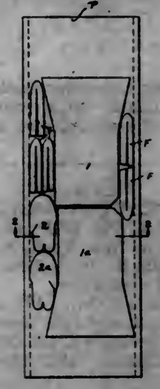
1. In a window construction the combination of a metal frame, slidable sashes mounted within said metal frame, casement sashes hinged to said slidable sashes, out-turned portions of the metal frame forming a guide for said slidable sashes, a channel formed on the upper portion of said frame opposite said guide, a channel formed on the lower portion of said frame opposite said guide, and guide strips attached to the vertical edges of said slidable sashes and slidably maintained within said channels.

1,922,506
LAMINATED BOX
John S. Stokes, Huntingdon Valley, Pa., assignor to Stokes and Smith Company, Philadelphia, Pa., a Corporation of Pennsylvania
Application October 1, 1930. Serial No. 485,631
34 Claims. (Cl. 93—43)



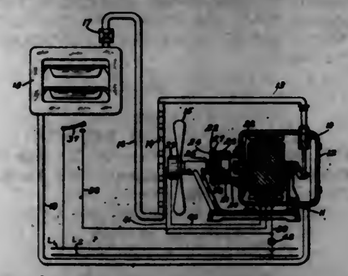
1. The method of making boxes which comprises, feeding a strip of box material from a roll, feeding spaced strips of box body material from rolls into adhesive engagement with one face of said first strip, and severing said composite strip to produce a box component adapted to form the box bottom and opposite vertical walls.

1,922,507
METHOD OF MAKING IMITATION PIGSKIN GLOVES
Sylvan M. Straus, Gloversville, N. Y.
Application June 2, 1933. Serial No. 673,996
3 Claims. (Cl. 41—24)



3. A method of making an imtation pigskin glove, which consists in applying to a sheet of paper the pieces of leather which correspond to a glove, said pieces of leather being in the finished form, and then simultaneously pricking a pattern in all said pieces of leather.

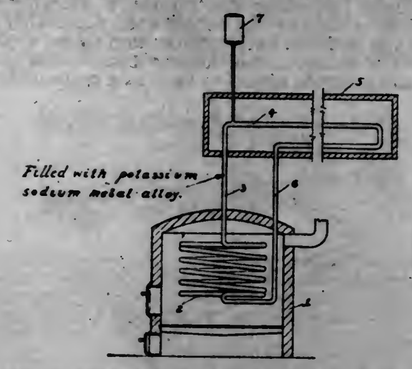
1,922,508
REFRIGERATING APPARATUS
Matson C. Terry, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application March 17, 1930. Serial No. 436,242
3 Claims. (Cl. 62—4)



1. In a refrigerating apparatus, a motor, starting and running windings for said motor, a compressor, a fluid-tight casing enclosing said motor and compressor, a condenser, an evaporator, a fan for forcing air over the condenser, said fan being driven by said motor, and means responsive to the speed of the fan for controlling the starting winding of said motor.

1,922,509
HEATING BY CIRCULATING HEAT-TRANSFERRING LIQUIDS
Richard Thurm, Saginaw, Mich., assignor to Baker Perkins Company, Inc., Saginaw, Mich., a Corporation of New York
Application October 28, 1929. Serial No. 403,121
4 Claims. (Cl. 257—192)

1. A heating system comprising suitably arranged closed endless pipes, a heat transference medium in said pipes composed of an alloy of

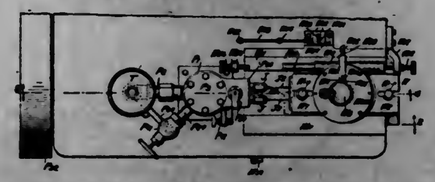


potassium metal and sodium metal and means to heat said heat transference medium.

1,922,510
FOAM STABILIZER
George Gordon Urquhart, Cynwyd, and Aaron Conrad Jones, Conshohocken, Pa., assignors to American Femon Company, Philadelphia, Pa., a Corporation of New Jersey
No Drawing. Application April 8, 1929
Serial No. 353,676
8 Claims. (Cl. 23—11)

1. A foam stabilizer comprising a leguminous extract in combination with foam producing substances.

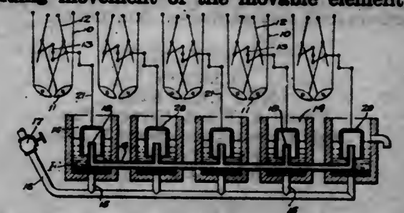
1,922,511
DYEING APPARATUS
Henry E. Van Ness, Elmira, N. Y.
Application September 15, 1925, Serial No. 56,429. Renewed July 28, 1931
18 Claims. (Cl. 8—19)



1. In apparatus of the class described, a support for a cone of yarn, and two spaced parallel nozzles directed toward a cone mounted on the support with their axes at opposite sides of the axis of such a cone.

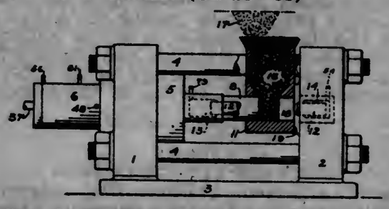
1,922,512
BALANCING MECHANISM FOR AUTOMATIC FLUID CONTROL SYSTEMS
Anthony E. Weingartner, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania
Application December 27, 1929
Serial No. 416,831
7 Claims. (Cl. 137—144)

1. The combination in a fluid control system including a plurality of ducts and throttling means for each duct of an operating means including a movable element for the throttling means of each duct and hydrostatic means operatively interconnecting said movable elements whereby upon a predetermined movement of the movable element of one duct in a given direction a corresponding movement of the movable element of



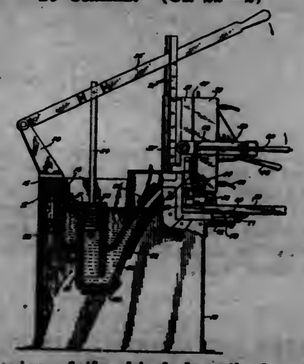
another duct or ducts in the opposite direction results.

1,922,513
FORMING PRESS
Ernst Wiedmann, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a Corporation of Wisconsin
Application February 14, 1931. Serial No. 515,712
9 Claims. (Cl. 25—55)



1. In a hydraulic press having two reciprocating hydraulic motors operable in opposition to each other and means for delivering liquid to said motors, the combination of means for interrupting the delivery of liquid to one of said motors and for trapping the liquid in that motor to hold its piston against retraction under the thrust of the other motor, and means for reversing both of said motors.

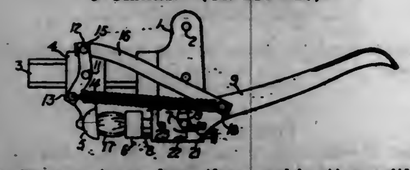
1,922,514
STEREOTYPE CASTING APPARATUS
Edwin L. Wilson, Chicago, Ill., assignor to Popular Mechanics Co., Chicago, Ill., a Corporation of Illinois
Application October 29, 1932. Serial No. 640,292
10 Claims. (Cl. 22—2)



1. A device of the kind described comprising a support, a slide reciprocably mounted thereon, an upright form member rigid on said slide, a complementary form member movably mounted on said slide, a matrix retainer frame associated with one of said form members and interposed between said members when the latter are in

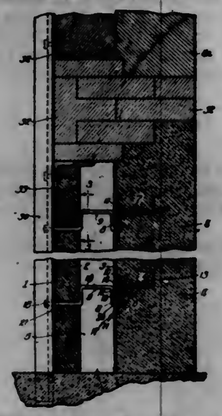
cooperation with each other, and means for forcing molten material into the space between said members and surrounded by said frame.

1,922,515
NUT CRACKER
Frank E. Weed, Girard, Pa.
Application December 12, 1931
Serial No. 580,687
9 Claims. (Cl. 146—16)



1. In a nut cracker, the combination with a support, of a post upon the support, a slide movable on the post, a handle pivoted upon the support, a rocking plate pivoted upon the slide, a connecting bar pivotally joining one end of said plate and the said handle, a spring connecting the opposite end of the plate and the said handle, a nut holding head carried by the slide, and a corresponding head carried by the support.

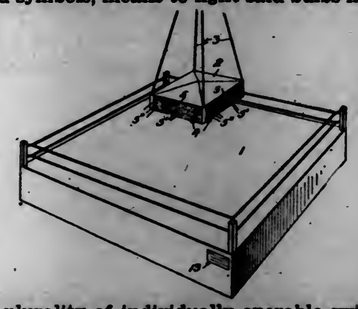
1,922,516
FURNACE CONSTRUCTION
John E. Anderson, Chicago, Ill., assignor to Filbrico Jointless Firebrick Company, Chicago, Ill., a Corporation of Illinois
Application July 28, 1930. Serial No. 471,165
11 Claims. (Cl. 72—101)



1. In a furnace construction, an outer retaining wall, an inner wall disposed in spaced relation to said outer wall comprising a lining of refractory material and a backing therefor, anchor members embedded in said lining, and means securing said members to said backing and said outer wall.

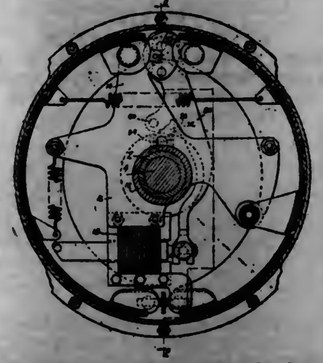
1,922,517
APPARATUS FOR SCORING BOXING BOUTS AND THE LIKE
Charles M. Amery, New York, N. Y.
Application February 4, 1932. Serial No. 590,980
3 Claims. (Cl. 177—384)

1. Apparatus for scoring boxing bouts comprising a frame having a plurality of sides forming a hollow portion therebetween, a score board on each of said sides comprising a plurality of numbers indicating the rounds, a plurality of names to identify the contestants, a plurality of symbols opposite each number and name, a plurality of bulbs for individually illuminating each of said symbols, means to light said bulbs including



ing a plurality of individually operable switches, whereby one symbol opposite each number may be illuminated and remain illuminated during the subsequent progress of the bout, and means to suspend the frame from above the center of the boxing ring.

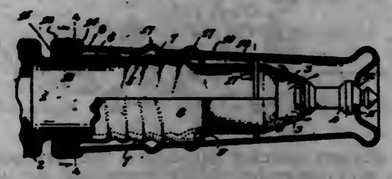
1,922,518
VEHICLE BRAKE
Vincent G. Apple, Dayton, Ohio, assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois
Application November 2, 1929, Serial No. 404,242
Renewed August 7, 1930
6 Claims. (Cl. 188—156)



1. In combination with power brake mechanism, means for actuating the brakes independently of the power means consisting of a torque plate hub having a bearing therein, a shaft journalled therein having an arm at each end, one of said arms being disconnectedly coupled with said brake operating mechanism.

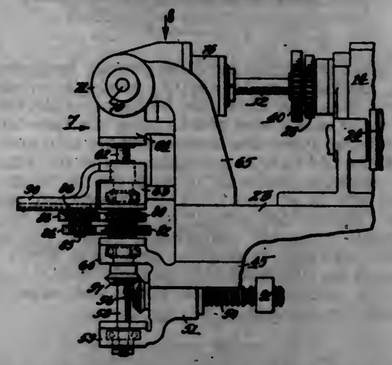
1,922,519
NOZZLE
Charles C. Armstrong, Peoria, Ill., assignor to L. R. Nelson Mfg. Co., Inc., Peoria, Ill., a Corporation of Illinois
Application December 24, 1931
Serial No. 583,035
11 Claims. (Cl. 299—121)

11. A nozzle including in its construction a stem having a passage therethrough for the flow of a fluid under pressure, a member threaded to said stem, an outer shell encircling said member and stem, said shell having a discharge opening at one end, the member and shell having operative connection permitting both to be rotated in unison about the stem, and a packing-ring encircling the stem abutting at one side the said



member, the said shell carrying an abutment portion abutting the other side of said packing-ring, said connection being arranged to permit longitudinal movement between said shell and member.

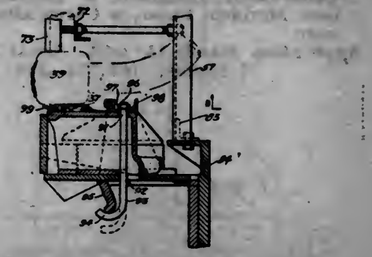
1,922,520
LEAD SCREW DRIVE FOR GRINDING MACHINES
Stanley W. Bath, Shrewsbury, Mass., assignor, by mesne assignments, to John Bath & Company, Worcester, Mass., a Corporation of Massachusetts
Application March 27, 1931. Serial No. 525,849
10 Claims. (Cl. 51—101)



1. In a grinding machine, a work slide, a work table swiveled thereon, a head stock and work spindle on said work table, a lead screw mounted in bearings carried by said work slide, and a geared driving connection between said work spindle and said lead screw, said connection comprising a vertical shaft mounted on said swivel table, a second vertical shaft mounted on said work slide, and an adjustable gear drive between said two shafts by which a positive drive may be effected in different relative positions of said tables.

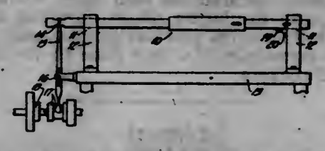
1,922,521
FURNACE WALL CONSTRUCTION
Joseph S. Bennett, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania
Application March 22, 1928. Serial No. 263,765
4 Claims. (Cl. 122—6)

1. In a furnace, a wall structure comprising a fluid-cooled freely depending panel, said panel comprising a plurality of pipes, a header connected with the upper ends of said pipes and from which said pipes depend, liner elements secured to and supported by said pipes and forming the effective wall surface, and flexible members attached to a liner element in the lower part of said panel and to a relatively fixed structure and constituting means for preventing undesirable displacements of the lower free end of



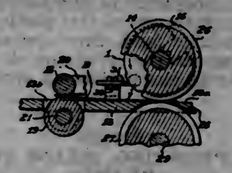
the panel while permitting expansion and contraction in the panel as a whole due to temperature changes affecting the panel.

1,922,522
CONTROL DEVICE FOR A MACHINE
Charles E. Blocksidge, Albany, N. Y., assignor to A. P. W. Paper Company, Albany, N. Y., a Corporation of New York
Application December 26, 1931
Serial No. 583,331
9 Claims. (Cl. 192—131)



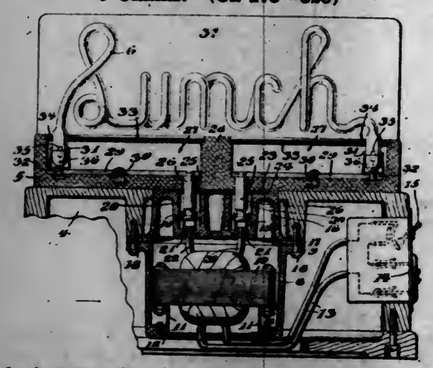
1. In a device of the character described, a control element for a machine, two manually operable members jointly movable in one direction for actuating said element, means for normally preventing the joint movement of said members in said direction, said members being relatively movable, and associated means normally inaccessible to the operator and responsive to the relative movement of said members for releasing said means.

1,922,523
ADHESIVE-APPLYING MECHANISM
Irving S. Bodkin, New York, N. Y., assignor to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware
Application June 19, 1931. Serial No. 545,443
8 Claims. (Cl. 91—49)



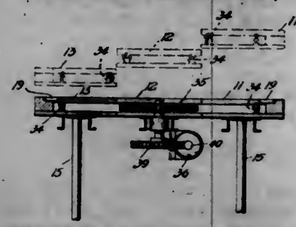
1. An adhesive-applying receptacle provided with a closed chamber having a peripheral outlet, means engaging and rotatably supporting said receptacle, a valve within the chamber and normally protruding through the outlet, and a spring arm secured within the chamber, the valve being carried by said arm, and means in the path of said valve to simultaneously depress and rotate said valve when said receptacle is rotated.

1,922,524
GAS LAMP CONSTRUCTION
Joseph O. Cadieux, Meriden, Conn., assignor to Connecticut Telephone & Electric Corporation, Meriden, Conn., a Corporation of Delaware
Application March 14, 1930. Serial No. 435,731
6 Claims. (Cl. 173—328)



1. A connector for a gas lamp comprising a base having grooves, bus bars secured therein, terminal prongs secured to the inner ends of said bars and projecting from said base, contact sockets secured to said bars within said grooves, and insulating plates covering the bus bars in said grooves and having passages to permit the terminals of a gas tube to be inserted into said sockets.

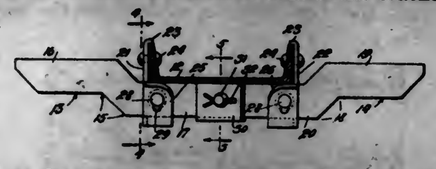
1,922,525
STAGE
Peter Clark, New York, N. Y.
Application March 31, 1932. Serial No. 602,369
8 Claims. (Cl. 20—1.123)



1. A stage as characterized comprising a plurality of sections, said sections having non-rotatable portions and having other portions which together provide a turn-table, lifting means on the underside of said sections and outside the circumference of the portions comprising the turn-table, and other means connected to said lifting means whereby all sections of the stage may be elevated as an entity.

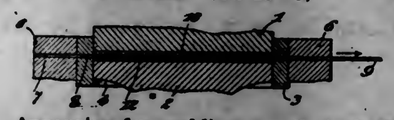
1,922,526
SAFETY SUPPORTING MEANS FOR BRAKE BEAMS
Seth A. Crone, East Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a Corporation of New York
Application April 21, 1931. Serial No. 531,705
9 Claims. (Cl. 188—210)

2. In auxiliary supporting means for brake beams, the combination with a truck member, of two bar members with overlapped inner ends and extending outwardly beyond the truck member, supporting brackets rigidly attached to and depending from the truck member, removable locking pins separately detachably connecting the bar members with the lower ends of the brackets,



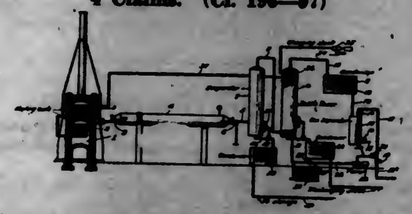
a U-shaped member straddling the overlapped ends, and means for rigidly connecting the overlapped ends and U-shaped member, whereby to unite the two bar members and provide a single safety bar.

1,922,527
APPARATUS FOR MOLDING PENCILS AND THE LIKE
Charles E. Daniel, Sandusky, Ohio, assignor to The American Crayon Company, Sandusky, Ohio, a Corporation of Ohio
Application March 3, 1928. Serial No. 258,768
2 Claims. (Cl. 18—5)



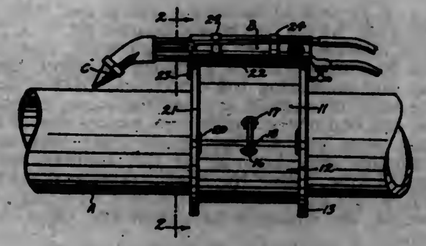
1. Apparatus for molding pencils including a part having a mold cavity, vertically movable spaced dies, the lower die being movable within said mold cavity and constituting the base thereof and the upper die being movable into and out of said mold cavity, movable means for supplying moldable material to said cavity when the upper die is at the limit of its upward movement, means for supplying lead cores to the moldable material compressed within the mold cavity between said dies, and said lower die adapted for movement in the mold cavity to project the completed pencil above the upper end thereof for removal.

1,922,528
PROCESS FOR TREATING PETROLEUM HYDROCARBONS
Albert G. Davis, Elizabeth, N. J., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del., a Corporation of Delaware
Application December 10, 1925
Serial No. 74,507
4 Claims. (Cl. 196—97)



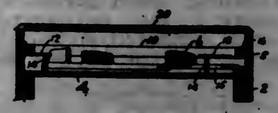
1. A process of converting petroleum hydrocarbons, comprising the steps of subjecting the oil to cracking temperatures and pressures, distilling off the lighter products, removing and fractionating the vapors, subjecting the still uncondensed vapors to a final condensing action and separating the distillate from the uncondensible gas, returning said gas directly to the fractionating stage and percolating it through a pool of the condensate collected in the bottom of the fractionating stage.

1,922,529
GUIDE FOR CUTTING TORCHES
Andrew F. Day, Dallas, Tex., assignor to A. F. Day Construction Company, Dallas, Tex., a Corporation of Texas
Application July 18, 1932. Serial No. 623,183
12 Claims. (Cl. 266—23)



1. In a torch cutting guide, the combination of a sectional guide member arranged for fastening around the work to be cut, means on the inner circumference of the sections of the member for engaging the work and supporting the said sections elsewhere out of contact with the work, and a hand carriage having means for mounting a torch thereon and arranged to be moved by hand circumferentially of the guide and the work.

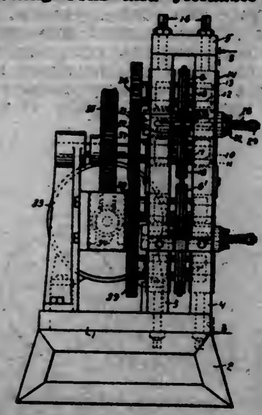
1,922,530
PIANO
Frank P. Dell and William Freeman, Philadelphia, Pa.
Application August 25, 1931. Serial No. 559,208
8 Claims. (Cl. 84—183)



1. In combination with a piano having a frame, strings supported therein, and a sounding board extending adjacent the strings on one side thereof, a tone sustaining, stretched and stiffened fabric extending adjacent the strings on the opposite side thereof.

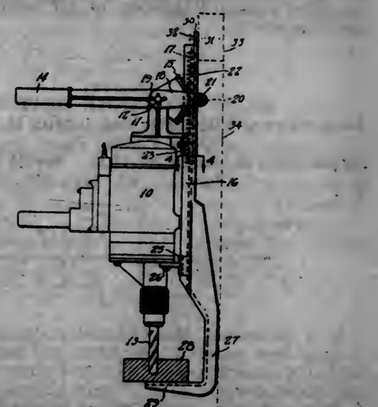
1,922,531
METAL RIBBON MACHINE
Edward A. Dewald, Massillon, Ohio, assignor to The Griscom-Russell Company, New York, N. Y., a Corporation of Delaware
Application January 29, 1931
Serial No. 511,978
4 Claims. (Cl. 30—94)

1. In a machine for shaping a preformed continuous metallic ribbon to a uniform thickness and width, a pair of substantially parallel ribbon flattening rolls having their cylindrical surfaces spaced apart and their axes relatively fixed, a pair of substantially parallel ribbon edge engaging rolls having their respective cylindrical surfaces in engagement with the opposite end surfaces of both of said flattening rolls at substantially the point of closest proximity of said flattening rolls and yieldable means for



permitting limited relative separation of the axes of said edge engaging rolls.

1,922,532
ATTACHMENT FOR PORTABLE DRILLS
Harry H. Ehlen, Portland, Oreg.
Application March 9, 1931. Serial No. 521,217
1 Claim. (Cl. 77—7)

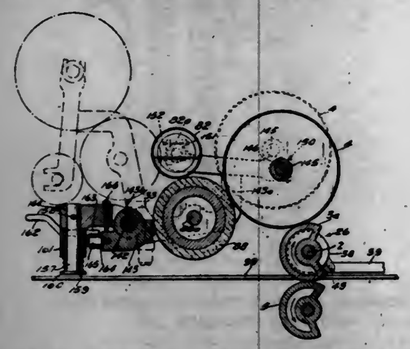


In a device of the class described, a straight guiding frame having a rack at one end thereof in parallelism therewith and having an extension at the opposite end of said guiding frame reversely bent to form a work-holder in the path of said guide, a sliding carriage in said guide, a portable drill mounted on said carriage, a standard mounted on said portable drill, a lever-actuated segment gear mounted on said standard and meshing with said rack, and arms secured at one end of the standard and provided at the other with rollers engaging the rear faces of the frame to hold the gear and rack in meshed relation and guide the drill to and from the work.

1,922,533
INKING MECHANISM FOR PRINTING APPARATUS
Harmon P. Elliott, Watertown, Mass., assignor to Elliott Addressing Machine Company, a Corporation of Massachusetts
Application November 2, 1931. Serial No. 572,431
16 Claims. (Cl. 101—352)

1. In a printing apparatus comprising an ink carrying impression member revoluble on a fixed

substantially horizontal axis, the combination, with said above described apparatus, of a fixed horizontally extending shaft mounted thereon and an ink supplying unit comprising a plurality of rolls journaled in a housing which has a perforated lug relatively short lengthwise of said perforation located substantially at the middle



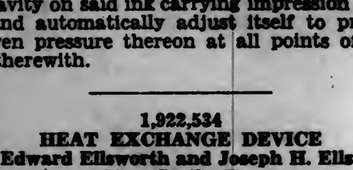
of one end adapted to slip somewhat loosely over said shaft and form a hinge therewith and thereby permit one of said inking rolls to rest by gravity on said ink carrying impression member and automatically adjust itself to produce an even pressure thereon at all points of contact therewith.

1,922,534

HEAT EXCHANGE DEVICE

John Edward Ellsworth and Joseph H. Ellsworth, New Castle, Pa.

Application February 21, 1933. Serial No. 657,852
3 Claims. (Cl. 257—256)



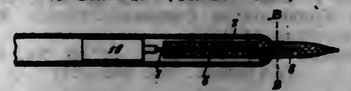
1. A device of the character described comprising two substantially identical halves one of which is superimposed upon the other and a gasket therebetween, each of said halves comprising a disc carrying a plurality of substantially concentric division walls forming water courses between them, said water courses being closed at their faces which are disposed toward said gasket only by the presence of said gasket so that when the sections are separated and the gasket is removed said water courses are completely exposed for cleaning, each of said sections comprising a central hub and a substantially radial bridge wall, an inlet pipe leading to one of said hubs, and an outlet pipe leading from the other of said hubs and having a port leading through each of said hubs from its respective supply or discharge pipe to the innermost water course of that particular section, said water course communicating with the succeeding outermost water course alternating upon opposite sides of said bridge wall whereby a "pigs in clover" structure is produced to cause a back and forth flow of fluid through said water course from the innermost water course of one section to the outermost water course thereof and thence through said gasket to the outermost water course of the other section and alternating back and forth through the latter section to the central hub and the discharge pipe of the last named section.

1,922,535

METHOD OF PRODUCING QUARTZ SEALS

Ellis O. Erickson, Los Angeles, Calif., assignor to Claude Neon Electrical Products Corporation, Ltd., Wilmington, Del. a Corporation of Delaware

Application June 16, 1930. Serial No. 461,351
5 Claims. (Cl. 49—78.1)



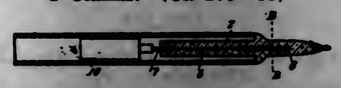
1. A process of making a quartz seal with an electrode which comprises, connecting to a fine wire relatively larger short lead wires, inserting the combined wire in a quartz capillary, heating and collapsing the quartz capillary around the wire to entirely enclose the same, fracturing one end of the capillary to expose one of the lead wires connecting the electrode therewith, inserting the electrode of the capillary in a quartz tube, fusing the quartz tube to the other end of the capillary, and finally fracturing said end of the capillary to expose the other lead wire.

1,922,536

QUARTZ SEAL AND METHOD OF PRODUCING THE SAME

Ellis O. Erickson, Pasadena, Calif., assignor to Claude Neon Electrical Products Corporation, Ltd., Wilmington, Del., a Corporation of Delaware

Original application June 16, 1930, Serial No. 461,351. Divided and this application January 27, 1933. Serial No. 653,766
4 Claims. (Cl. 176—36)



1. A seal between a quartz envelope and an electrical lead wire comprising, a relatively fine wire of substantial length having larger wire leads connected to each end thereof, and a quartz covering completely enclosing said fine wire and a portion of each of said larger wire leads.

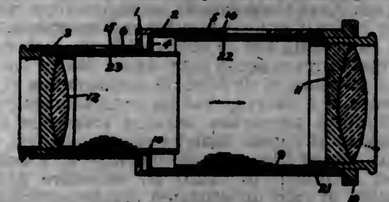
1,922,537

ADJUSTABLE MOUNT FOR PROJECTING LENSES

William F. Fouquet, Rochester, N. Y., assignor to Projection Optics Co., Rochester, N. Y.

Application September 5, 1929. Serial No. 390,547
2 Claims. (Cl. 88—24)

1. A lens mount having a short sleeve at each end thereof, a lens in each of said sleeves, each of said sleeves and each lens being of different diameter from the other sleeve and its lens, two long concentric sleeves in which said short lens sleeves are mounted, each of said long sleeves having a small diameter at one end and a larger diameter at the other end to correspond with the diameters of the short sleeves, an annular shoulder in each of said long sleeves connecting the two diameters thereof, one of said concentric sleeves having a right and left hand cam slot therein, the right hand cam slot being in the portion of the concentric sleeve having the one diameter, and the left hand cam slot being in the portion of the concentric sleeve having the other diameter, the said slots being balanced against each other and at different angles, the other concentric sleeve having longitudinal slots therein, a screw in each of said short sleeves adapted to engage one of the cam slots and one of the longitudinal slots in the concentric sleeves above mentioned whereby on the turning of one



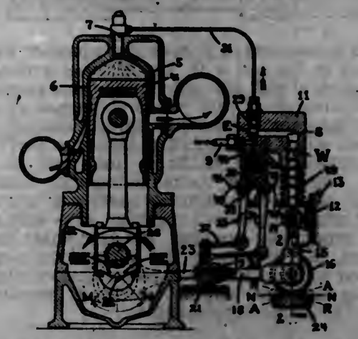
of the concentric sleeves in the outer sleeve, the short sleeves and their lenses are moved apart or together for the purpose of varying the magnifying power of the lenses.

1,922,538

FUEL INJECTING PUMP FOR DIESEL AND OTHER LIKE FORMS OF SELF-IGNITION ENGINES EMPLOYING AIRLESS- OR "SOLID"-INJECTION OF LIQUID FUEL SUBSTANCES

Joseph C. Groff, New York, N. Y.

Application June 28, 1927. Serial No. 201,986
17 Claims. (Cl. 123—139)



1. Apparatus for controlling the operating relation between a Diesel engine and a fuel-injecting pump driven thereby comprising, in combination, a reciprocating member driven by the Diesel engine, a fuel-pumping piston or plunger, a link actuated by said member, another link extending at an angle thereto and pivotally connected therewith, said link being pivotally connected with said plunger, bearing means carried by said links, and a bearing surface for guiding the path of said bearing means, said bearing surface being of a configuration to create motion which will convert a variable rate of motion of said member into a uniform rate of motion of said plunger.

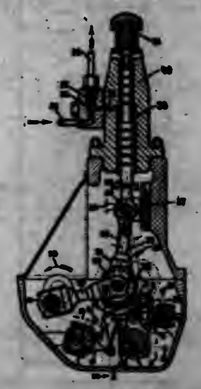
1,922,539

FUEL SUPPLYING PUMP FOR INTERNAL COMBUSTION ENGINES OF THE AIRLESS FUEL INJECTION TYPE

Joseph C. Groff, Allentown, Pa.

Application December 14, 1929
Serial No. 414,916
14 Claims. (Cl. 123—139)

1. A fuel supplying and injection control system for an internal combustion engine of the fuel injection type having a power piston and including fuel pumping means having a pumping plunger, a quantity of fuel control for varying the quantity of fuel delivered per pumping cycle, a time of injection commencement control for varying the time of injection commencement with respect to the position of the power piston of the engine, a change of velocity control for changing the velocity at which fuel is delivered and injected by the pump, means related with each control to provide for the adjustment of each control without any substantial change in the desired adjustment of the other controls, the aforementioned quantity control means comprising means for changing the amplitude of stroke of the pumping plunger while maintaining substantially unchanged the time of injection commencement and/or the velocity of fuel injection by the plunger.

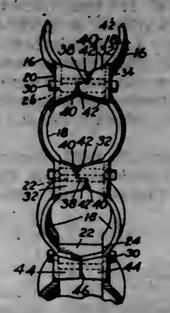


1,922,540

SEPARATOR FOR ANTIFRICTION BEARINGS

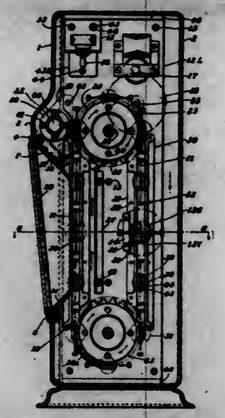
Frank A. Hefferman, Bristol, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut

Application January 30, 1930. Serial No. 424,564
11 Claims. (Cl. 308—201)



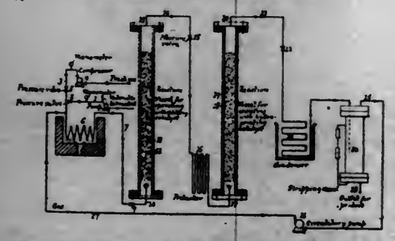
1. In a separator for a row of rolling elements, a pair of rings having co-operating pockets for the rolling elements and flattened portions between adjacent rolling elements, stakes spacing the flattened portions and uniting the rings, and means for locking the rings against relative twisting comprising mating fingers bent in over the stakes from adjacent edges of the rings, the mating fingers having notches forming side shoulders which face in opposite directions and engage one another across the central plane of the row of rolling elements, right and left facing shoulders on one ring fitting between left and right facing shoulders on the other ring; substantially as described.

1,922,541
CIRCULATING DISPLAY ADVERTISING APPARATUS
Thomas Alfred Jenkins, Roselle Borough, N. J.
Application January 13, 1933. Serial No. 651,551
19 Claims. (Cl. 40—32)



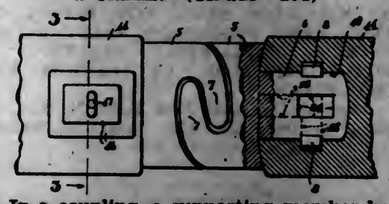
1. An advertising apparatus of the character described, comprising a cabinet with a door having an inwardly converging aperture, faced with a transparent panel and capped in the upper end with a treated vitreous wall, serving as a means of diffusing and directing a volume of illuminating rays, a pocket of convexed contour, formed integral with door, for housing incandescent elements, a plurality of duplex card retaining plates, in spaced relation and controlled position, a screen arranged at the converging aperture of door and in back of exposed duplex card retaining plates, which conceals mechanism and produces a background for advertising cards, means for causing duplex card retaining plates to circulate.

1,922,542
DESTRUCTIVE HYDROGENATION OF CARBONACEOUS MATERIALS
Carl Krauch, Ludwigshafen-on-the-Rhine, Mathias Pier, Heidelberg, and Walter Simon, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J., a Corporation of Delaware
Application June 20, 1927, Serial No. 200,282, and in Germany June 29, 1926
5 Claims. (Cl. 196—53)



3. The process of producing substantially saturated low boiling hydrocarbons from combustible carbonaceous materials by first converting said materials into lower boiling products containing substantial amounts of unsaturated hydrocarbons by treating said materials with an excess of added hydrogen at a temperature of from about 400 to 700° C. in the presence of a catalyst having predominantly cracking properties selected from the class consisting of aluminum, silicon, copper-iron mixtures, mixtures of compounds of these metals, porous carbon, active silica, hydrosilicates, alumina and magnesia, and then subjecting the so obtained hydrocarbons to a temperature ranging from about 300 to 600° C., and a pressure of at least 20 atmospheres in the presence of a catayist having predominantly hydrogenating properties selected from the class consisting of cobalt, molybdenum, tungsten, and compounds of these metals and with an excess of added hydrogen to cause an extensive hydrogenation of said unsaturated cracked materials.

1,922,543
AUTOMATIC COUPLING
Carl Kappers, Culver City, Calif.
Application May 25, 1932. Serial No. 613,475
2 Claims. (Cl. 213—174)



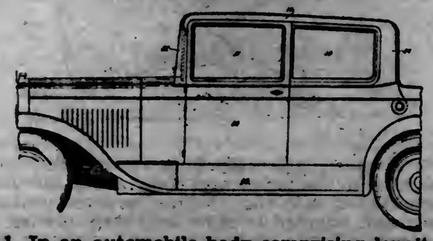
2. In a coupling, a supporting-member having a socket in its end with longitudinal grooves in its cylindrical wall and segmental annular grooves in communication with the first-named grooves, a coupling-member having helical shaped jaw-members on its front end and having a shaft portion turnably and shiftably mounted in said socket, lugs on the coupling-member shiftable through said longitudinal grooves and turnable in said annular grooves together with said shaft in the supporting-member, the said shaft having a recess, and a bolt in the supporting-member designed to drop into said recess for locking the coupling-member against turning movements within the supporting-member.

1,922,544
ELECTRICAL CONNECTION
William D. Lindsey, South Orange, N. J., assignor to Garrison Fire Detecting System, Inc., New York, N. Y., a Corporation of Delaware
Application April 27, 1929. Serial No. 358,473
3 Claims. (Cl. 173—268)



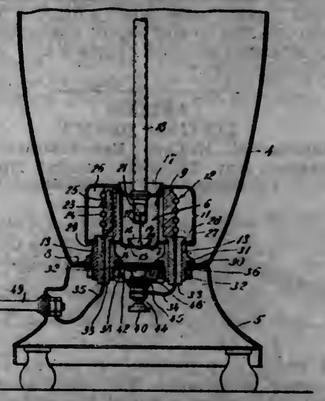
1. In a junction box, the combination with a supporting member, electrical conductors terminating at one side of said member, and means for connecting said conductors together, of a receptacle-like cover receiving said member and having openings through which said conductors extend, and a medium covering exposed surfaces of said first-named member, the terminals of said conductors and said conductor connecting means, said medium initially having a fluid-like consistency and thereafter hardening to permanently fasten the respective parts of the structure together in their respective positions to exclude moisture and to make breakage of the structure necessary to open the box.

1,922,545
AUTOMOBILE BODY
Sylvanus D. Locke, Bridgeport, and Henry J. Stegeman, Fairfield, Conn.
Application March 3, 1928. Serial No. 258,908
12 Claims. (Cl. 296—68)



1. In an automobile body comprising longitudinally extending top beams each including a guideway, a removable cover for closing the space between said top beams, said cover having its edges disposed in said guide ways, cables connected with said cover for controlling the movement of the same, said cables disposed in said guide ways, and spring fingers in said guide ways adapted to prevent movement of the cables laterally of the guide ways.

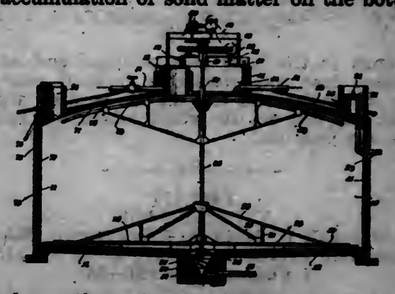
1,922,546
ELECTRIC HEATING UNIT
Louis V. Lucia, Rome, N. Y., assignor to Revere Copper and Brass Incorporated, a Corporation of Maryland
Application August 14, 1930. Serial No. 475,274
6 Claims. (Cl. 219—44)



1. A percolator which comprises, a main receptacle for liquid, a heating unit disposed within said receptacle and adapted for substantial immersion in the liquid in said receptacle, a well adjoining said unit adapted to be heated thereby, closure means for said well, and means associated with said closure means for periodically admitting liquid to said well from said receptacle.

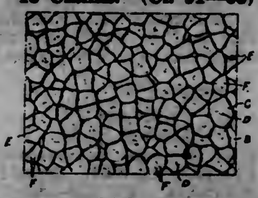
1,922,547
DIGESTER
John L. Mason, York, Pa., assignor to Hardinge Company, Incorporated, York, Pa., a Corporation of New York
Application April 29, 1931. Serial No. 532,863
4 Claims. (Cl. 210—3)

1. A digester comprising a circular tank having a substantially flat bottom, a vertical side wall, and an arched roof, means for feeding liquid into the tank through the roof thereof, means for withdrawing clarified liquid from the tank through an opening in the roof thereof, said tank being adapted to be completely filled with liquid to its roof, means for sealing the interior of the tank from the atmosphere, a sump in the center of the bottom of the tank for collecting solid matter separated from the liquid, means for withdrawing the solid matter from the sump, stirring mechanism in the tank for preventing the accumulation of solid matter on the bottom



and also on the underside of the roof of the tank, said stirring mechanism comprising a vertical shaft depending from the roof of the tank and supported therefrom, a plurality of radially disposed blades mounted on the lower portion of said shaft for scraping sludge on the bottom of the tank towards said sump, and a plurality of radially disposed blades mounted on said shaft for scraping the scum from the underside of the roof, and means operatively associated with said shaft and located above said roof and supported solely thereby for rotating said shaft.

1,922,548
SURFACE ORNAMENTING COMPOSITION AND METHOD OF PREPARING AND APPLYING THE SAME
Harry E. Mattin, Brooklyn, N. Y., assignor to Joseph H. Meyer Brothers, Brooklyn, N. Y., a Corporation of New York
Application April 1, 1931. Serial No. 526,804
13 Claims. (Cl. 91—68)

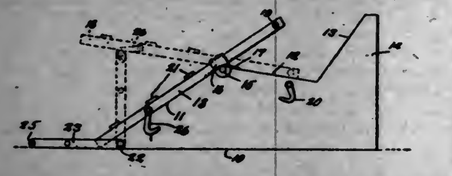


1. The process which comprises mixing together, a cellulose derivative, a plasticizer and a sufficient quantity of a highly volatile solvent to form a freely flowing mixture, applying the mixture to a base to form a relatively thick layer thereon and evaporating the solvent from the layer so as to cause a free ebullition of the liquid whereby a plurality of contiguous defined areas are permanently formed in the layer.

1,922,549
VEHICLE JACK
Marshall K. McCosh, Reisterstown, Md.
Application December 5, 1930. Serial No. 500,228
11 Claims. (Cl. 254—88)

1. A wheel jack having a body provided at its rear end with an upwardly inclined forwardly

extending ramp face and at its forward end with an upstanding stop wall, said body also having a wheel supporting face between the inclined face and stop wall, and a platform pivoted between



its ends to the body at the upper end of the inclined face and adapted to have its rear end rest on the inclined face in one position and its front end rest on the wheel supporting face in a second position.

1,922,550
VEHICLE JACK
Marshall K. McCosh, Reisterstown, Md.
Application February 13, 1931. Serial No. 515,453
8 Claims. (Cl. 254—88)



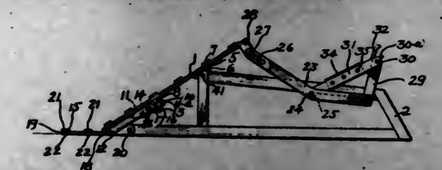
1. In a jack of the kind described including a pair of parallel side frames each consisting of a bottom bar, a rear end bar extending upwardly and forwardly from the rear end of the bottom bar and an arch bar having its forward portion extending upwardly and rearwardly from the forward end of the bottom bar and its rear portion extending downwardly and rearwardly from the rear of its forward portion and secured to the rear end bar, ramp bars carried by the forward portions of the arch bars, a floor supported on the rear portions of the arch bars, struts each connecting an arch bar and bottom bar intermediate their ends, a shaft fixedly supported by the upper ends of the rear end bars, a stop plate tiltably mounted on the shaft, a limit stop fixed to the shaft to limit tilting of the plate, and cross bars connecting the bottom bars.

1,922,551
VEHICLE JACK
Marshall K. McCosh, Reisterstown, Md.
Application February 13, 1931. Serial No. 515,452
9 Claims. (Cl. 254—88)



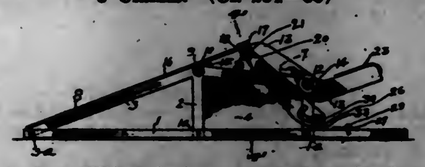
1. A jack of the class described having a body consisting of a series of laminations arranged one on top of the other to form a structure of bluntly wedge shape with a bottom horizontal face, a front face rearwardly inclined from bottom to top and having the successive laminations rearwardly stepped at their front ends to form steps in said front face, and its top face downwardly inclined from front to rear.

1,922,552
VEHICLE JACK
Marshall K. McCosh, Reisterstown, Md.
Application April 23, 1931. Serial No. 532,342
7 Claims. (Cl. 254—88)



7. A vehicle jack comprising a body, a platform reaching to the top of said body, a stop movably mounted on said body, means mounted on said body and adapted to move said stop relative to said means into a position to stop a vehicle wheel when said wheel has moved on to said body, said means being actuated by said wheel.

1,922,553
LIFTING DEVICE
Marshall K. McCosh, Reisterstown, Md.
Application July 21, 1931. Serial No. 552,281
8 Claims. (Cl. 254—88)



1. In a lifting device, a support, a fixed runway leading part way to the top of said support, a pivoted runway associated with the fixed runway and leading to the top of said support, and a stop attached to said support and moved by said pivoted runway.

1,922,554
LIFTING DEVICE
Marshall K. McCosh, Reisterstown, Md.
Application July 21, 1931. Serial No. 552,280
9 Claims. (Cl. 254—88)



1. A wheel stop pivotally mounted on a base, and means associated with said stop and so adapted that, when a wheel moves against said means, said means exert pressure on a part of the face of said stop that extends in one direction from the pivotal axis of said stop and thereby tilt said stop, the part of said stop that extends in the other direction from the pivotal axis of said stop thereupon extending upward whereby it can function as a stop.

1,922,555
LIFTING DEVICE AND SUPPORTING DEVICE
Marshall K. McCosh, Reisterstown, Md.
Application April 28, 1932. Serial No. 608,122
8 Claims. (Cl. 254—88)

1. A vehicle support comprising horizontal members positioned at several levels, at alternate levels being one or more longitudinally extending members, and at adjoining levels being two or more transversely extending members, two or more of said transversely extending members in a level being spaced from each other, whereby an open work support is formed, one or more of said transversely extending members constituting an elevation at the forward end of the top of said
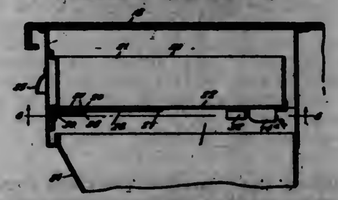


support and one or more constituting an elevation at the rear end of the top of said support, and means for detachably attaching thereto an incline upon which a vehicle wheel can be moved to the top of said support.

1,922,556
CASTER WHEEL
Charles W. Millet, Evansville, Ind.
Application September 2, 1930
Serial No. 479,260
1 Claim. (Cl. 16—45)



A caster wheel whose body and tread solely comprise a plurality of inherently rigid discs each of rubber compound and fabric material located side by side which have been compressed into solid consistency before being embodied in the caster, wheel and mounting means therefor embodying metal discs located at the sides of the body, and a tube or sleeve extending through the center of all of the aforesaid discs and connecting them together, said first-named discs being adapted to support the weight borne by the caster without dependence on the said metal discs.

1,922,557
BURGLARPROOF DEPOSITORY FOR VALUABLES
James V. Necero, Jamestown, N. Y.
Application March 4, 1932. Serial No. 596,879
2 Claims. (Cl. 109—1)

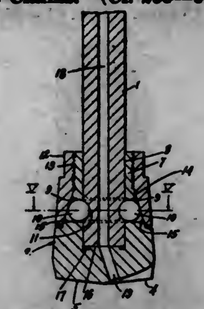


1. A depository of the character described comprising a drawer-like structure provided with a swingable bottom and latch means for retaining the bottom in position for supporting valuables, and a pin and slot connection between the said bottom and the drawer-like structure.

1,922,558
CRAYON AND METHOD OF MAKING THE SAME
Leonard R. Phillips, New York, N. Y.
No Drawing. Application July 23, 1929
Serial No. 380,470
4 Claims. (Cl. 106—5)

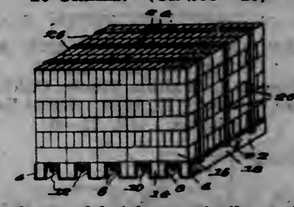
1. The method of making crayons for use in drawing on moistened fabrics, which consists in uniformly permeating powdered chalk with an alcoholic solution of an aniline dye, combining the permeated chalk with a binder of dextrine, and molding into shape.

1,922,559
ROCK DRILL
Karl Strobel, Whittier, Calif., assignor to Karl Strobel Corporation, Puente, Calif., a Corporation of California
Application May 7, 1932. Serial No. 609,894
5 Claims. (Cl. 255—64)



1. A cutting drillhead including a body member formed with a cutting face at one end thereof and having a longitudinal bore extending partially through said body member from the end opposite said cutting face to receive the end of a drill shank, the exterior side wall of the body member tapering inwardly toward said opposite end, a plurality of radial recesses extending from the exterior of said tapered wall into communication with said bore, a plurality of connecting devices in said recesses having a dimension in a direction radial to said bore greater than the radial length of said recesses, and a collar movable longitudinally of said body member and surrounding said tapered wall for engaging said connecting members to press them inwardly of said bore.

1,922,560
HOLDER FOR BRICKS OR THE LIKE
Willard P. Sullivan, Suffolk, Va.
Application August 29, 1930. Serial No. 478,712
10 Claims. (Cl. 206—46)



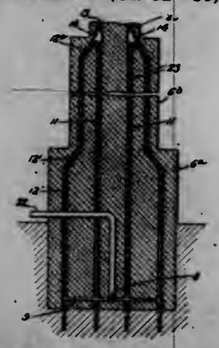
1. A package of bricks or similar articles, including a holder comprising a sheet having channels transversely thereof, bricks laid on edge in said channels, a layer of bricks laid on edge on said first bricks and at right angles thereto, a second layer upon said first layer parallel to the bricks in said channels, and means to secure said bricks to said holder.

3. A carrier for a plurality of similar substantially rectangular articles having three dimensions comprising a sheet metal form having channels opening on both faces thereof and extending transversely thereof, the channels opening on the upper face being of a width equal to an even multiple of one dimension of one of

said articles, the distance between the centers of adjoining channels being substantially equal to another dimension of one of said articles, whereby said carrier and the objects carried thereby may be lifted by means of rods inserted in the channels opening on the lower face.

1,922,561
VENTILATING AND COOLING SYSTEM FOR CONCRETE DAMS OR OTHER HEAVY CONCRETE CONSTRUCTIONS

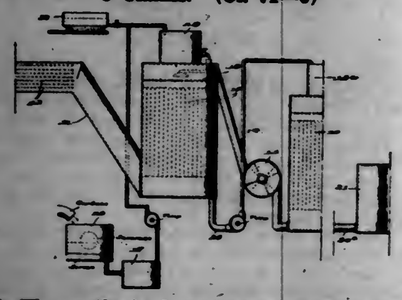
Gennaro Tecci, Boulder City, Nev.
Application November 2, 1932. Serial No. 640,910
4 Claims. (Cl. 61—30)



1. In a dam including a rock foundation and a wall of concrete rising from said foundation, means for cooling and ventilating the dam comprising a main air conduit pipe having an intermediate portion embedded in the concrete mass adjacent the rock foundation and end portions extending upwardly adjacent relatively opposite ends of the dam and embedded in said concrete mass together with branches extending laterally from said main conduit transversely of the dam, and in turn having branches extending therefrom parallel to said main air conduit pipe, vertical pipes connected adjacent their lower ends with the last named branches and arranged in pairs, and terminating downwardly from the upper end of the dam, and exhaust pipes connected with and common to each pair of vertical pipes also embedded in the concrete mass and having upper end portions extending through said mass and opening to the atmosphere adjacent the upper end of the dam.

1,922,562
NITROGENOUS FERTILIZER AND METHOD OF PRODUCING SAME

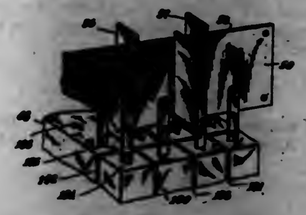
Joseph L. Walton, Pinole, Calif.
Application February 17, 1930. Serial No. 429,129
3 Claims. (Cl. 71—6)



1. The method of producing fertilizer including decomposing waste organic material in the presence of water, adding calcium hydrate to the resultant liquid of the decomposition, bringing said liquid into contact with gaseous products of combustion.

1,922,563
MACHINE FOR OPERATING ON PLASTIC MATERIALS

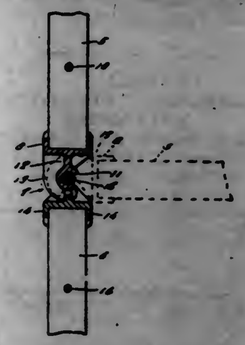
John W. West, Maplewood, N. J., assignor to Frozen Confections, Inc., New York, N. Y., a Corporation of Delaware
Application November 17, 1931
Serial No. 575,571
19 Claims. (Cl. 107—8)



1. A machine for operating on frozen material, comprising, in combination, severing means for dividing said material, feed mechanism for advancing said material toward said severing means, means for piercing stick receiving holes in said material, and means adapted automatically to insert sticks in such holes.

1,922,564
ROD CONNECTER

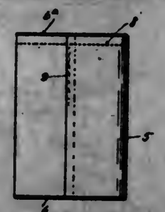
Aubern E. Wright, Nappanee, Ind.
Application July 1, 1932. Serial No. 620,481
1 Claim. (Cl. 287—103)



A joint of the character described comprising a pair of bar sections having opposed ends, one of said sections being provided with a slotted barrel, a pair of guide flanges spaced on the said barrel and projecting upwardly therefrom, a lug on the end of the other section, a cross pin on the end of the last mentioned section for disposition in the said slotted barrel, said lug on the last mentioned section being adapted for disposition between the said guide flanges to prevent longitudinal motion of the pin in the barrel at certain positions of the sections with respect to each other, a portion of each of the said flanges being removed adjacent the slotted portion of the barrel so as to permit longitudinal displacement of the pin by freeing the said lug from the said flanges.

1,922,565
LABEL

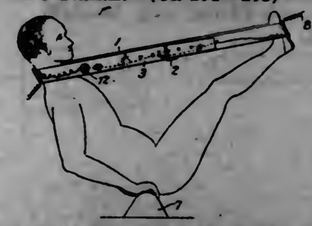
Lucille Pillault Adair, Jacksonville, Fla.
Application May 9, 1931, Serial No. 536,273
Renewed March 22, 1933
1 Claim. (Cl. 229—51)



In a label for containers, a body adapted to be wrapped about a container with the end portions thereof in overlapping relation, said body being provided with perforations in spaced parallel relation to one edge thereof to weaken the body, a flexible element applied to the inner surface of said body immediately inward of said perforations and having one end portion thereof confined between the overlapping end portions of the body and extending parallel to the overlapping ends of the body and at an angle to said perforations, the inner surface of said body being provided with an adhesive.

1,922,566
EXERCISE BELT

Achill W. Brand, Morro Bay, Calif.
Application April 1, 1930. Serial No. 440,769
3 Claims. (Cl. 174—175)



1. An exercise belt comprising, an elongated belt member of non-elastic webbing material, and adjustable fastening means to connect the ends of said elongated member to form a long loop, the length of the loop and the width of the webbing material being such that one side of the looped belt member can be caught around the neck and cervical portion and the opposite side can be engaged by the feet whereby movement of the feet with alternate treading motion will move the neck engaging portion back and forth across the cervical region to produce a vibratory massaging action without chafing.

1,922,567
PICTURE FRAME

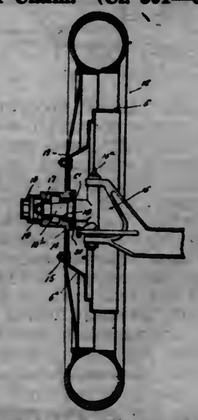
Carl Brecht, Indianapolis, Ind.
Application April 5, 1933. Serial No. 664,618
4 Claims. (Cl. 40—148)



1. In a frame of the class described, a glass front, a backing, a pocket between said backing and said glass front, a picture in said pocket, a binding surrounding the sides of said glass front and said backing, said backing consisting of two pieces of material glued together, and a flap in the outer one of said two pieces of material to support the frame.

1,922,568
HUB AND BRAKE DRUM ASSEMBLY FOR VEHICLE WHEELS

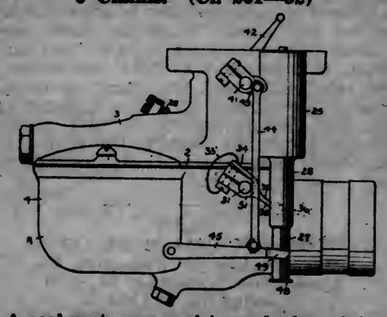
Frank R. Carr, Nashville, Tenn.
Application May 18, 1932. Serial No. 612,113
1 Claim. (Cl. 301—6)



In combination, a spindle, a bolt for said spindle, a brake drum mounted on said spindle, having an integral outwardly extending hub portion, the side walls of said brake drum being formed of a plurality of offset, spaced, annular portions of different diameters, a vehicular wheel secured to the side wall of said drum, said hub having said spindle extending therein with the bolt of the spindle in substantial alignment with the tread of the tire of the vehicular wheel.

1,922,569
CARBURETOR

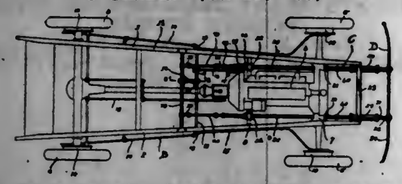
Louis De Marco, Cleveland, Ohio, assignor of fifteen per cent to Percy A. Secor, Cleveland, Ohio
Application May 20, 1932. Serial No. 612,534
6 Claims. (Cl. 261—52)



1. A carburetor comprising a body, mixing and fuel chambers in said body, a nozzle in the mixing chamber, a throttle valve in said mixing chamber, an air intake chamber, a valve in said air intake chamber, means to yieldingly hold said latter valve in closed position, means adapted to open said latter valve according to the speed

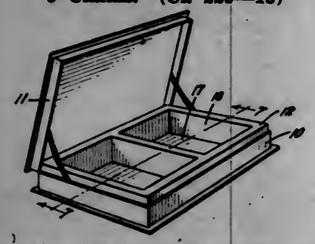
of the engine and means for limiting opening of said latter valve according to the position of said throttle valve.

1,922,570
AUTOMATIC SAFETY BRAKE
Ray J. De Shane, Wyandotte, Mich.
Application April 30, 1932. Serial No. 608,529
8 Claims. (Cl. 180—83)



1. In automatic brake applying means for motor vehicles, brake operating means including a transverse brake shaft, push rods mounted for independent sliding movement longitudinally of the motor vehicle, cushioning means at the forward end of each push rod, a bumper, means pivotally connecting the push rods at their forward ends to the bumper, coupling means between the rear end of each push rod and the brake shaft including slide rods having limited telescoping movement into the rear ends of the push rods, and spring means normally urging the push rods forwardly and the coupling means to a brake releasing position.

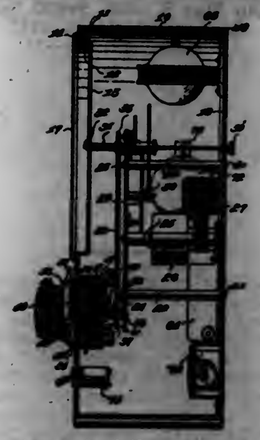
1,922,571
BOX CONSTRUCTION
Irving A. Deline, Denver, Colo.
Application February 5, 1931, Serial No. 513,540
Renewed December 6, 1932
5 Claims. (Cl. 229—15)



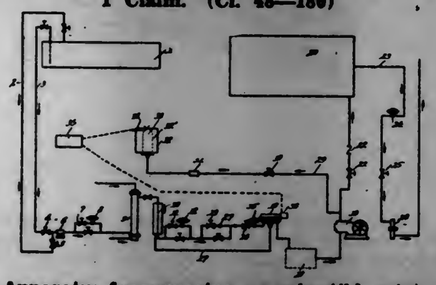
1. A construction for candy boxes and the like comprising: an outer box; a partition board; flaps formed on said partition board and adapted to extend downwardly along the inner faces of said outer box; triangular flaps formed on said partition box adapted to fold downwardly in spaced relation to said first flaps; open-topped, box-like compartment members adapted to fit within the opening formed by said triangular flaps; and a binding covering the edges of said compartment members and securing the latter to said partition board.

1,922,572
AUTOMATIC CALL MECHANISM
Daniel W. Driscoll, Villanova, Pa.
Application September 28, 1927
Serial No. 222,590
5 Claims. (Cl. 200—37)

1. In an electric call mechanism, circuit closing means comprising a plurality of spaced conducting members and a pair of rotatable shafts insulated from each other, an indicating member carried by the outer end of one of said shafts, and a contact arm supported by the same shaft adjacent said indicating member revolvable therewith and adapted to engage the ends of said conducting members, and a contact arm supported by the outer end of the outer of said shafts adapted to engage the other ends of said conducting members to complete a signalling circuit.



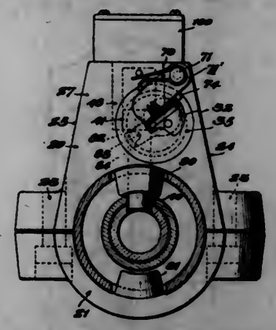
1,922,573
CONTROL DEVICE
Elmer B. Dunkak, Baltimore, Md., assignor to The C. M. Kemp Mfg. Co., Baltimore, Md., a Corporation of Maryland
Application January 12, 1931. Serial No. 508,355
1 Claim. (Cl. 48—180)



Apparatus for preparing a combustible mixture comprising a source of supply for combustible, a a source of supply for a tempering agent, means for volatilizing the combustible, a heat exchanger for regulating the relative densities of the combustible and the tempering agent with respect to each other, a mixing means automatically operable to proportion the ratio of combustible and tempering agent to produce a mixture having the desired calorific value, and means for automatically regulating the calorific value of the mixture comprising a thermally responsive member and automatically operable mechanism associated therewith for selectively controlling the ratio of combustible and tempering agent supplied through said mixing means.

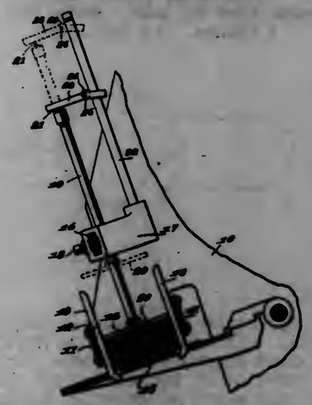
1,922,574
IGNITION CONTROL LOCK
Charles N. Fairchild, Milford, Conn., assignor to Fairchild Lock Corporation
Application November 10, 1924
Serial No. 749,023
17 Claims. (Cl. 70—127)

1. In a device of the character described, a housing, a bolt movable within said housing, a key operated lock mechanism for moving said bolt, a member lying in the path of said bolt, means for yieldingly holding said bolt and said member separated, a contact carried by said member



adapted to open and close the ignition circuit and means pivoted on said housing for locking said lock mechanism in the position it assumes on closing said circuit.

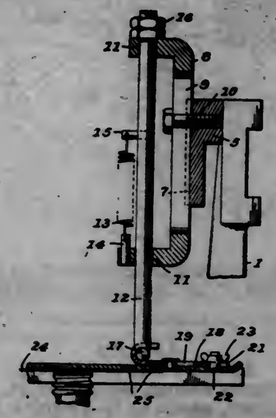
1,922,575
LABEL FOLLOWER MECHANISM
James Omri Fenner, Worcester, Mass., assignor to Economic Machinery Company, Worcester, Mass., a Corporation of Massachusetts
Application June 15, 1931. Serial No. 544,625
4 Claims. (Cl. 271—61)



1. In a label follower mechanism comprising a follower bar, a follower rod, a follower lip slidably mounted on the follower bar and extending over the upper end of the rod, and a member pivotally carried by the follower lip and coacting with the follower bar to automatically resist upward movement of said lip on said bar when pressure is exerted on the lip by the follower rod.

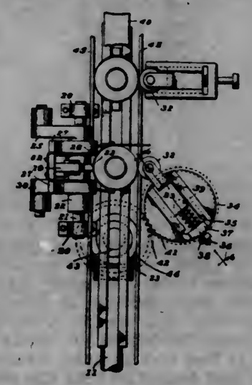
1,922,576
OVERHEAD BOTTLE GUIDE FOR A LABELING MACHINE
James O. Fenner, Worcester, Mass., assignor to Economic Machinery Company, Worcester, Mass., a Corporation of Massachusetts
Application February 9, 1932. Serial No. 591,906
8 Claims. (Cl. 216—57)

1. A bottle guiding structure for a labeling machine comprising a channel-shaped member adapted to receive the upper portion of a bottle and guide the same through the machine, a vertically adjustable support for maintaining said



channel-shaped member at its desired elevation in the machine, and a detachable connection between the said member and its support.

1,922,577
BOTTLE LABELING MACHINE
James O. Fenner, Worcester, Mass., assignor to Economic Machinery Company, Worcester, Mass., a Corporation of Massachusetts
Application February 17, 1932. Serial No. 593,659
9 Claims. (Cl. 216—54)

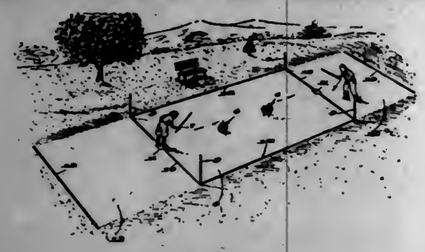


1. In a bottle labeling mechanism, the combination of means for presenting a label to a bottle, of a grip finger for pressing a portion of the label against the bottle, and a member having curved side walls acting in conjunction with the grip finger to attach the label over the front face and side portions of the bottle.

1,922,578
GAME
Harry J. Fernandez, Monroe, La.
Application February 19, 1931. Serial No. 517,065
2 Claims. (Cl. 272—126)

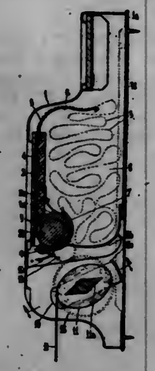
1. A game element comprising a disk having a series of projections upon its periphery upon which it may be rolled upon a playing surface, the disk being provided with an aperture by which it may be caught, said projections extending such

distance from the circumference of the disk and being so spaced from each other as to produce



vertical or undulating movement of the apertured portion of the disk when it is rolled.

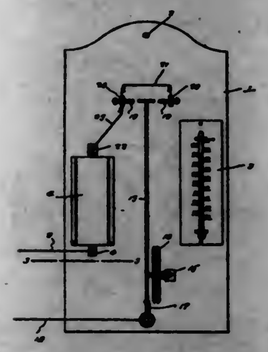
1,922,579
ADVERTISING DEVICE
Thomas Charles Fowler, Mount Albert, Auckland, New Zealand, assignor to Fowler's Automatic Advertising Limited, Auckland, New Zealand
Application January 9, 1933, Serial No. 650,928, and in New Zealand February 20, 1932
13 Claims. (Cl. 40—28)



1. An advertising device comprising a casing containing a sight opening; an endless band carrying matter to be displayed, adapted to be passed behind said opening; a driving roller in engagement with said band; a rocking frame geared with said driving roller; and a roll of paper having its free end hanging from the casing, mounted in said frame so that the action of detaching a section of paper from the roll, moves the frame in one direction and imparts travel to the endless band.

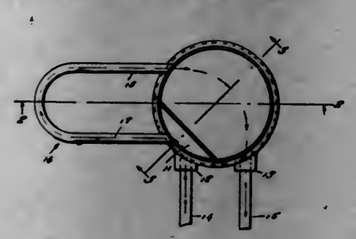
1,922,580
TEMPERATURE ALARM
Eugene F. Gekler, Grover Hill, Ohio
Application March 22, 1932. Serial No. 600,520
1 Claim. (Cl. 200—140)

A device of the class described comprising a supporting member, a rod having one end connected with the supporting member, a pair of ears extending upwardly from the other end of the rod, a lever having its lower end pivoted between the ears, the upper end of the lever being of T-shape, a bracket on the supporting member, a thermostat adjustably carried by the bracket, said bracket being located a slight distance above the rod and to one side of the lever, a spring connected to the rod and engaging the lever for holding said lever against a part of the thermostat, a pair of spaced brackets carried by



the supporting member, a screw passing through each bracket for engagement by the end of the T-shaped part of the lever when the same is moved by the thermostat.

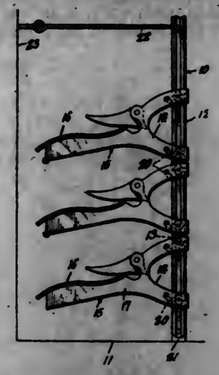
1,922,581
WATER HEATER
Benjiman Robert Glover and William J. Bryan Nicholson, Tifton, Ga.
Application April 25, 1932. Serial No. 607,448
8 Claims. (Cl. 257—248)



1. A water heater comprising a vertical cylindrical drum, a chordal partition in the drum defining a small chamber at one side thereof, and a cold water inlet communicating with said chamber, and a hot water outlet leading from the remainder of the interior of the drum, and a heating pipe extending from the drum and communicated with said chamber and with the remainder of the drum, whereby cold water introduced into the drum is circulated first through said chamber, then through said heating pipe and then into the drum for discharge therefrom. said drum being relatively flat and provided with a reduced upper portion from which said heating pipe is extended.

1,922,582
FOLDING DESK, CHAIR, AND THE LIKE
Anne Austelle Goodrich, Augusta, Ga.
Application September 16, 1930
Serial No. 481,050
3 Claims. (Cl. 155—130)

1. A collapsible and foldable furniture unit comprising vertically swingable rails each including a plurality of telescopic sections, and a plurality of furniture elements arranged in tandem longitudinally of said rails and each mounted on a



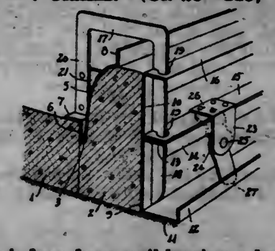
section for sliding movement therewith and swinging movement with the rails.

1,922,583
TENSIONING SPIDER FOR DEEP-WELL TURBINES
Aladar Hollander, Berkeley, [illegible], assignor to Byron Jackson Co., Los Angeles, Calif., a Corporation of Delaware
Application January 4, 1932. Serial No. 584,645
4 Claims. (Cl. 103—102)



1. A deep-well pump assembly comprising a pump adapted to be positioned within the well, a pump shaft extending upward from said pump to the top of the well, an outer tubular column surrounding said shaft and attached at its lower end to said pump, an inner tubular column also surrounding said shaft and positioned within said outer column, spaced bearing members in said inner column for laterally supporting said shaft, a plurality of vertically spaced supporting structures between said inner and outer columns for vertically supporting the inner column from the outer column, one of said supporting structures comprising a spring for resiliently supporting the inner column from the outer column, and another of said supporting structures including a member vertically adjustable with respect to said outer column.

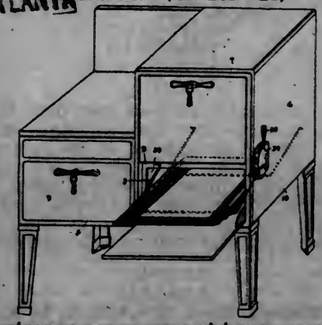
1,922,584
CONCRETE FORM
John N. Heltzel, Warren, Ohio
Application August 27, 1928. Serial No. 302,390
7 Claims. (Cl. 25—118)



1. A curb face form rail having a lower portion to form a groove between a curb and a road slab and having a flange to overlap said slab, said portion extending downwardly from the flange.

1,922,585
BROILER OVEN
Carl H. Hoffstetter and Robert F. Hoffstetter, Erie, Pa.
Application October 10, 1931. Serial No. 568,167
2 Claims. (Cl. 126—41)

OF ATLANTA [illegible] LIBRARY



1. A stove or range comprising an oven having a door opening, a door for said opening and a source of heat; a broiler or like pan approximately equal in length to the depth of said oven mounted within said oven, and a single means for moving the pan within the oven while in sliding contact with the door and rear wall thereof vertically toward and away from the source of heat and for projecting the pan outwardly through the oven door opening when said door is opened.

1,922,586
GAS RANGE
Carl H. Hoffstetter and Robert F. Hoffstetter, Erie, Pa.
Application January 6, 1932. Serial No. 585,036
5 Claims. (Cl. 126—39)



1. In a range having a cooking part, a manifold, burners and gas control valves therefor associated with said manifold, an invertible front plate for concealing said manifold from view,

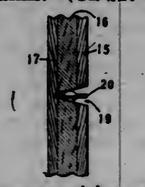
means for supporting the manifold and burners and gas valves in elevated and lowered positions with respect to the cooking top of the range, said plate having openings through which the stems of the gas valves extend when the manifold is in one adjusted position, said openings being so arranged that said stems will also project therethrough when the manifold is adjusted to a different position and said plate is inverted.

1,922,587
OVEN DOOR CONSTRUCTION
Carl H. Hoffstetter and Robert F. Hoffstetter, Erie, Pa.
Application May 20, 1932. Serial No. 612,552
13 Claims. (Cl. 126—191)



1. In combination with an oven door-frame, a readily removable door body pivotally mounted on said frame and adapted to be opened outwardly and downwardly, a lining for said door body, and means attached to the upper portion of said lining for drawing said lining toward said frame and holding said lining in contact with said frame when the door body is removed.

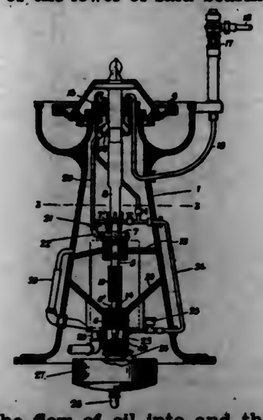
1,922,588
BARREL
Hazen L. Hoyt, Great Neck, N. Y.
Application June 14, 1930. Serial No. 461,080
13 Claims. (Cl. 217—72)



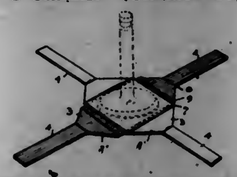
1. A container comprising staves integrally connected by flexed stave material, the staves being formed by rows of scoring of V shaped cross-section having the base of the V of substantial width means for reinforcing said scoring to transmit stresses which are longitudinal of the staves, between adjacent staves without most of such thrusts being transmitted through the flexed stave material, said reinforcing means engaging the stave side edge surfaces.

1,922,589
OILING SYSTEM
Henry George Koepke, Chicago, Ill., assignor, by mesne assignments, to Standard Brands Incorporated, Dover, Del., a corporation of Delaware
Application July 28, 1927. Serial No. 209,130
8 Claims. (Cl. 308—170)

1. In a centrifugal separator having a vertical shaft and a plurality of bearings, one above another, in which said shaft is mounted to rotate, an oiling system comprising means for feeding oil by gravity downwardly to and through said bearings, in combination with a screw pump located inside one of the lower of said bearings for augmenting the flow of oil into and through said bearing by exerting positive downward pressure thereon as it flows through said bearing, and means for utilizing said pressure to conduct oil from said bearing to the oil inlet of a shaft bearing at a higher level.



1,922,590
PACKING AND SHIPPING DEVICE
Sydney R. Koons, Cleveland, Ohio
Application February 12, 1931. Serial No. 515,225
3 Claims. (Cl. 229—87)



1. A packing or shipping device for valves, consisting of a composite piece of material including a corrugated paper sheet, comprising a rectangular area bounded by triangular areas terminating in relatively long and narrow extensions and creased parallely to permit said piece to be folded partly into pyramidal form and partly into tubular form.

1,922,591
PROCESS FOR MANUFACTURING CAUSTIC SODA
Paul Krassa, Santiago, Chile
No Drawing. Application October 19, 1931, Serial No. 569,241, and in Austria November 4, 1930
15 Claims. (Cl. 23—184)

1. In the process of manufacturing caustic soda from a mixture of ferric oxide and sodium nitrate the step of adding to the said mixture amorphous dioxide of silicon of great surface development.

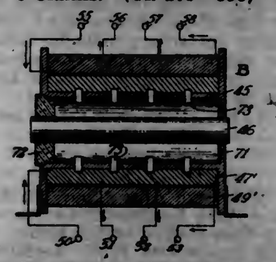
10. A process of manufacturing caustic soda comprising the steps of mixing sodium nitrate and ferric oxide, incorporating into the said mixture amorphous silicon dioxide, bringing the mixture into a subdivided form, passing it through a furnace and passing simultaneously through the same furnace a current of oxygen containing gases and steam, heating the said furnace, whereby the said subdivided mixture and the said current are heated to a temperature of 600 to 750° centigrade, and decomposing the solid residue thus obtained by water.

1,922,592
VEHICLE SIGNAL
Weldon V. Lane, Asbury Park, N. J.
Application August 25, 1930. Serial No. 477,719
3 Claims. (Cl. 177—329)



1. A vehicle signal comprising an oblong casing including a body portion and a hinged cover, said body portion and cover each being provided with a series of aligned vertically arranged sight openings adjacent one side of said body and spaced apart by web portions, said sight openings being of a width less than half the width of the walls in which they are formed, a retaining strip secured longitudinally of the inner side of each web each embodying a channeled portion and retaining flanges spaced from the webs, signal panels slidable beneath the flanges over the sight openings and being of a width less than half the width of the walls in which the sight openings are formed, separators of a width no less than that of the signal panels held in the channeled portions of the retaining strips carried by the webs of the body portion and adapted to have their opposite edges engaged in the channeled portions of the retaining strips carried by the cover to provide independent compartments, and a lamp supporting block removably fitting in the body portion along one side of its sight openings for supporting a signal lamp in each compartment and retaining the signal panels against displacement.

1,922,593
ELECTRICAL TRANSFORMER
Gaspar Leiva, Buenos Aires, Argentina
Application December 29, 1930
Serial No. 505,407
3 Claims. (Cl. 175—356)



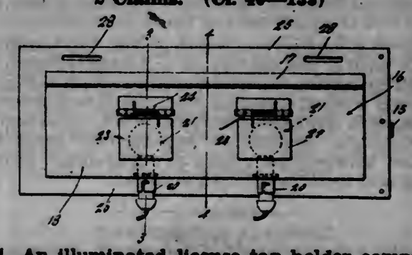
3. A transformer comprising a tube having end flanges extending laterally therefrom in the form of a spool, one end of said tube being closed and a removable closure for the other end, a primary winding on the exterior of said tube between the end flanges, a secondary winding surrounding the exterior of the primary winding, a metallic core extending axially through the ends of said tube, said tube being adapted to contain distilled water and having a plurality of apertures in the wall thereof and a plurality of porous plugs extending through the apertures into contact with the primary winding to convey moisture thereto and increase the inductive effect.

1,922,594
RING FOR ATTACHING ARTICLES TO CLOTHING
Isabel G. Lippstadt, New York, N. Y.
Application November 16, 1932
Serial No. 642,957
6 Claims. (Cl. 24—3)



1. In a key-holder having means for holding keys, and a connecting member attached at one end to said means, means for attaching the connecting member to clothing, comprising a split two-pronged ring, means for attaching the ring to the connecting member, a stud on one prong and a detent in the other prong adapted to engage the stud, whereby the ring may be held in a closed position, the ring being of a pear shape, wide at the base of the prongs and narrow near the top of the prongs, permitting the closed ring to be slipped over a button at the wide part and to be retained on the button by the narrow part.

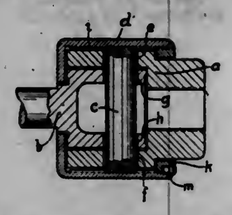
1,922,595
AUTOMOBILE LICENSE TAG HOLDER
Luigi Locollo and Angelo Morra, Plainfield, N. J.
Application April 4, 1933. Serial No. 664,427
2 Claims. (Cl. 40—133)



1. An illuminated license tag holder comprising an open front hollow lamp casing having tag holding means surrounding the margin of its open front portion, said casing embodying a rearwardly and downwardly inclined relatively narrow top wall, an inclined rear wall, and a horizontally disposed apertured bottom wall, said bottom wall serving to accommodate a bulb retaining socket,

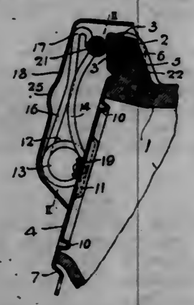
said rear wall having at least one opening surrounded by an outwardly projecting flange, a cover for said opening having a marginal rim fitting telescopically over said flange, and spring equipped hinges mounting said cover in place.

1,922,596
VARIABLE COUPLING
Rudolf Mangold, Longmeadow, Mass., assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany
Application December 5, 1931, Serial No. 579,317, and in Germany December 15, 1930
3 Claims. (Cl. 64—30)



1. A variable coupling comprising a pair of coaxial sleeves having diagonally opposed slots therein, a pin engaged freely through said slots, a rotatable ring embracing said sleeves and connection means between the ends of the said pin and said ring whereby said pin is displaced by turning said ring.

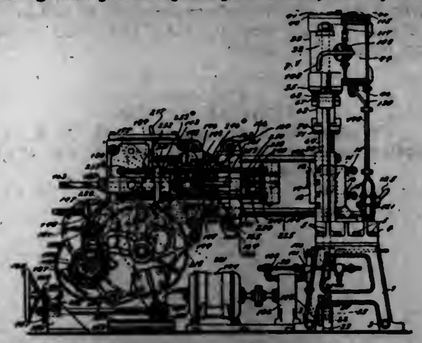
1,922,597
JOURNAL BOX LID
John L. Mehun, Omaha, Nebr.
Application October 20, 1931. Serial No. 569,899
13 Claims. (Cl. 308—47)



1. In a journal box construction, the combination, with a journal box, of a lid hinged thereto; a spring having a portion engaging said lid and a second portion engaging said box; and a member hinged to said box engaging a third portion of said spring, the hinge of said member being disposed between the points of engagement of said first and third mentioned portions.

1,922,598
DIE-CASTING
Louis H. Morin, New York, N. Y., assignor to Doehler Die-Casting Co., a Corporation of New York
Application February 6, 1931. Serial No. 513,803
11 Claims. (Cl. 22—200)

1. The method of casting metal which includes introducing the metal in a molten condition into the mold cavity of a die under a pressure exceeding 6000 pounds per square inch, and ejecting



the metal from the die immediately after the mold cavity of the die is filled.

1,922,599
BOILER CONSTRUCTION
Thomas E. Murray, Brooklyn, N. Y.; Joseph Bradley Murray, Thomas E. Murray, Jr., and John F. Murray, administrators of said Thomas E. Murray, deceased, assignors to Metropolitan Engineering Company, a Corporation of New York
Application October 9, 1925. Serial No. 61,337
18 Claims. (Cl. 122—235)

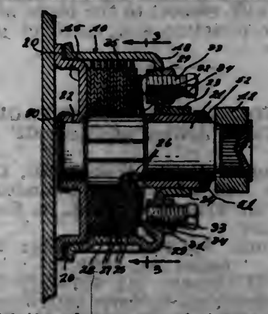


1. A boiler wall comprising vertical water tubes and having an inner face exposed to the direct radiant heat of the flame in combination with a layer of highly refractory insulating material at the outer side of said tubes and a second layer of less highly refractory material outside of the first layer, means for tying the whole together and means for supporting the same from the top with freedom to expand downward.

1,922,600
SHOCK ABSORBER
John M. Nickelsen, Ann Arbor, Mich., assignor to Monroe Auto Equipment Company, Monroe, Mich., a Corporation of Michigan
Application January 26, 1931. Serial No. 511,395
6 Claims. (Cl. 267—9)

2. In a shock absorber of the class described, a casing, a rotatable shaft mounted therein, series of relatively movable friction disks, one of said series being non-rotatably connected to said casing, the other series being fixed to rotate with

said shaft, and a resilient member constituting a cam member movable with said shaft and cooperating with a member on said casing for varying the frictional pressure between said disks proportionately to the rotative movement of said shaft.



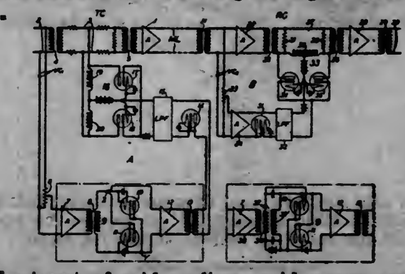
1,922,601
SPARK PLUG TERMINAL
Edmund Nolan, Detroit, Mich.
Application June 18, 1928. Serial No. 286,193
3 Claims. (Cl. 172—269)



1. A terminal connector formed from an integral sheet metal blank fashioned to form two cylindrical portions having perpendicular axes and with the edges of the blank adjacent along the inner angle of said cylinders, one of said cylinders being adapted to receive an insulated conductor and having an end wall centrally apertured for the passage of the metallic conductor and permitting of securing the same from the outside, and the other of said cylinders being adapted for a snap engagement with the terminal contact there being also deep indentations in opposite sides of said cylinder between the same and the first mentioned cylinder to mutually reinforce said cylinders.

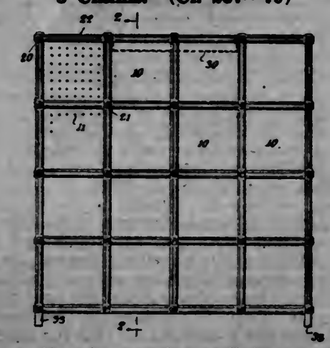
1,922,602
VOLUME CONTROL CIRCUITS
Nathaniel C. Norman, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application January 27, 1931. Serial No. 511,504
9 Claims. (Cl. 178—44)

1. In a signal transmission system, a source of alternating current signals, a transmission medium supplied with said signals, a three-electrode space discharge device having a grid circuit and a plate-filament circuit, said plate-filament circuit being connected effectively in shunt with said medium so as to insert an electrical loss therein the value of which is dependent on the value of the impedance of said plate-filament circuit, and which determines the volume range of the signals transmitted over said medium, and means to produce a linear relation between the range of signal volumes in said medium beyond the point of connection of said plate-filament circuit thereto and the range of signal volumes at



the input of said medium, said means comprising means for impressing on the grid circuit of said device rectified voltages which are substantially proportional to the square root of the alternating current signal voltages at the input to said medium to control the value of the impedance of the plate-filament circuit of said device.

1,922,603
SECTIONAL RADIATOR COVER
Otto Nusser, Newark, N. J.
Application March 31, 1931. Serial No. 526,595
3 Claims. (Cl. 237—79)

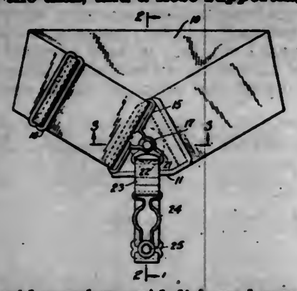


1. A sectional cover for radiators, each of its sections composed of a plurality of substantially square, perforated plates angularly disposed to one another to form the top-, side- and end-walls of the cover said plates having raised center parts and lower margins adapted to overlap when assembled, strips having flattened and perforated ends placed on the overlapping margins of the plates of two adjoining sections, angular corner strips having perforated ends placed on the adjoining ends of the plates forming the top-, side- and end-walls, and on said first named strips, bolts passing through the perforations in said ends and strips, and nuts on said bolts to hold the same in place.

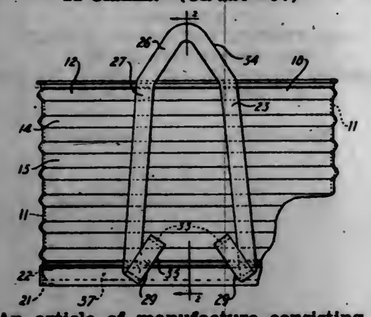
1,922,604
REVERSIBLE GARTER
Gustave A. Piepenbring, Stratford, and Werner Bentel, Bridgeport, Conn., assignors to The American Fabrics Company, Bridgeport, Conn., a Corporation of Connecticut
Application January 23, 1931. Serial No. 510,600
5 Claims. (Cl. 241—6)

1. A garter comprising a leg band, a pad connected thereto, a disk rotatable within the pad,

a connecting member exterior to the pad and fixed to the disk, and a hose supporting tab carried by said member, said disk and member being rotatable through at least 180° to reverse the position of the tab with respect to the leg band.

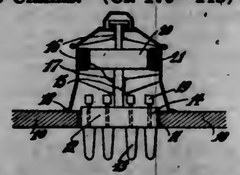


1,922,605
CONTAINER
Jay P. Spear, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York
Application October 6, 1930. Serial No. 486,617
11 Claims. (Cl. 220—97)



1. An article of manufacture consisting of a box, a V-shaped portion at an upper end of the box for facilitating the handling thereof, and projections therebeneath having an inclination corresponding to the V-shaped portion and adapted to cooperate with a portion on another box identical with the V-shaped portion for accelerating the stacking of the boxes.

1,922,606
METHOD AND MEANS FOR PROPELLING AND STEERING WATER OR AIR SHIPS
Walther Voith, St. Pelten, Austria
Application September 22, 1931, Serial No. 564,311, and in Germany September 25, 1930
6 Claims. (Cl. 170—148)

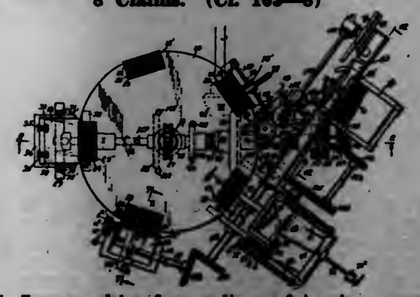


2. In a ship construction, the combination of a substantially vertical axis power unit of narrow speed range, and of substantially constant speed, a blade wheel rotor in the hull of the ship and having its axis in alignment with the axis of the power unit, actuating means mechanically uniting said axes for driving the rotor on the operation of the power unit, and means adjustable independent of the rotation of the blade wheel rotor for changing the position of the blades with respect to the blade wheel rotor to vary the direction and speed of propulsion of said ship.

1,922,607
INSECTICIDE CARRIER, SPREADER, AND EMULSIFIER AND PROCESS OF MAKING SAME
William Hunter Velck, Watsonville, Calif., assignor to California Spray-Chemical Corporation, San Francisco, Calif., a Corporation of Delaware
No Drawing. Application October 29, 1928 Serial No. 315,927
11 Claims. (Cl. 167—22)

7. A product derived from petroleum characterized by the facts that while it contains an oxygenated sulfur compound which is an organic petroleum acid, the ordinary water solutions of its salts are bland, neutral and substantially harmless to vegetation in concentrations about 3%, in which concentrations it has the properties of finely emulsifying viscous oils in water by ordinary agitation and causing the aqueous emulsions and dispersions to wet quickly and to spread widely on vegetable surfaces normally repellent to water.

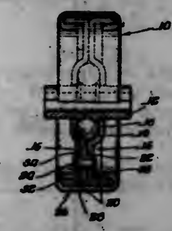
1,922,608
SAFETY PIN CARDING MACHINE
Walther von Centa, Brooklyn, New York
Application October 7, 1930. Serial No. 487,073
8 Claims. (Cl. 163—8)



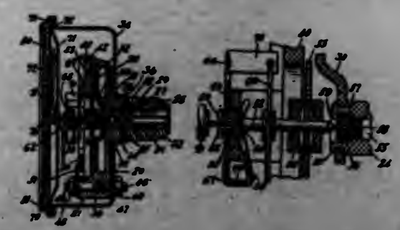
1. In a machine for carding safety pins, a movable table having along its circumference a plurality of bearings to bear safety pins in vertical position with the spring arms thereof extending in front of said table, means for holding said safety pins in operative position, said means comprising a horizontally movable member capable of engaging said spring arms, movable means opposite one of said bearings for opening the spring arms of said safety pins and positioning them in front of their locking heads, movable means in front of another of said bearings for mounting a card over said open spring arms including means for reengaging said spring arms with their locking heads, and means in front of a still other bearing for removing the carded pins from said table.

1,922,609
ROLLER
Robert R. Ware, Chicago, Ill., assignor to Chicago Roller Skate Company, Chicago, Ill., a Corporation of Illinois
Application July 11, 1932. Serial No. 621,826
4 Claims. (Cl. 308—181)

1. A roller for skates including a hub, a pair of side plates, a peripheral tread supporting section, a ground engaging tread section supported along the outer periphery of the tread supporting section, said tread section having a portion thereof extending over a part of the supporting section, a vertical extension on said portion and engaging a side of one of said plates, and means connecting said extension to said plates.

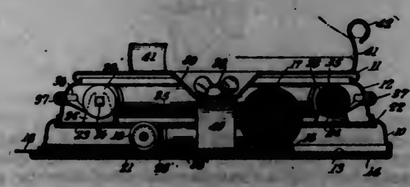


1,922,610
TACHOMETER
Joseph Zubaty, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan
Application June 20, 1928. Serial No. 286,987
5 Claims. (Cl. 264—13)



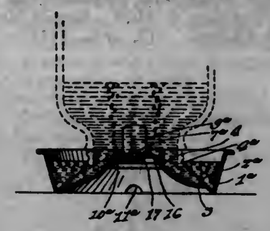
1. In a device of the class described, a bracket, a bearing member extending through and projecting beyond the opposite sides of the bracket, a shaft journalled in the bearing member, a spring secured to the shaft for resisting movement thereof, a U-shaped spring adjuster having an arm on each side of the bracket and an opening in one arm through which one end of the bearing member extends, spaced prongs on the other arm straddling the opposite end of the bearing member, and means connecting said spring to the adjuster.

1,922,611
TELEPHONE INDEX AND MEMO
Frank Adler, Brooklyn, N. Y.
Application August 29, 1932. Serial No. 630,879
11 Claims. (Cl. 281—5)



10. As an article of manufacture, in combination, a base, a member freely rotatable on said base, spring rollers carried by the rotatable member, indicia bearing sheets wound upon the rollers and handle members affixed to the free end of the sheets and adapted to be pulled to display the indicia.

1,922,612
CHICK FOUNT AND FEEDER
Harry J. Barker, Chicago, Ill.
Application January 7, 1922. Serial No. 527,741
33 Claims. (Cl. 119—77)

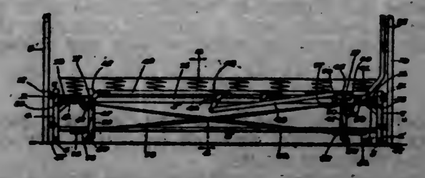


1. A fountain comprising a basin to receive liquid, a reservoir upon said basin, and a resilient member having divergent extremities enclosed by said reservoir for engaging said reservoir in an upright position upon said basin.

18. A chick fountain comprising a basin adapted to hold water or the like, a jar reservoir inverted thereon, and a reversible connecting member therebetween, said connecting member when in operable position being adapted to project inwardly of said reservoir to resiliently engage the shoulders thereof internally and above its neck and to lie flat against said basin when said basin and connecting member are knocked down for shipment.

28. A basin, an inverted jar liquid reservoir seated upon said basin, liquid in said reservoir being adapted to flow into the basin by gravity, and means for regulating the level of liquid in said basin comprising an aperture in said basin opening directly to the atmosphere and within the horizontal cross section of the column of liquid in said reservoir, said aperture being large enough to admit of free passage of liquid into said reservoir and not large enough to allow the escape of liquid therethrough when said reservoir is in inverted position.

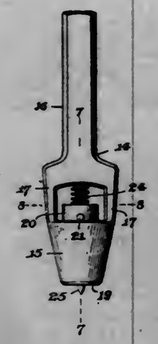
1,922,613
SLIDING COUCH BED
Percival P. Bebry, Boston, Mass., assignor to Englander Spring Bed Company, New York, N. Y., a Corporation of New York
Application March 5, 1931. Serial No. 520,239
7 Claims. (Cl. 5—21)



1. In a sliding couch bed, the combination of a main section, a sliding section link connected thereto from opposite ends for maintaining the ends of the sliding section in parallelism with the ends of the main section and having foldable legs adapted to engage the floor, and means for

raising and lowering the sliding section when in extended position and comprising a pivoted head rest, a pair of cross pivoted bars carrying said legs, and links connecting said bars with the head rest thereby to swing the legs to raise and lower the sliding section.

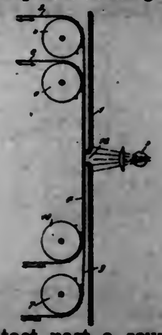
1,922,614
PUNCH
Charles T. Bradshaw, Philadelphia, Pa.
Application October 8, 1931. Serial No. 567,742
2 Claims. (Cl. 164—124)



1. A punch comprising a body member having a head forming one end portion thereof and a handle spaced from the head in axial alinement therewith and forming the opposite end portion of the member and connected to the head by spaced arms which extend longitudinally from the head and laterally from the handle, said head having an axial bore extending therethrough and a cutting edge surrounding the outer end thereof, a plunger slidable in the bore and extending into the space between the head and the handle and having an outer end surface in the region of the plane of the cutting edge in the normal position of the plunger, a pin penetrating the plunger and projecting outwardly therefrom within said space and adapted to engage the inner end of said head and prevent outward movement of the plunger beyond its normal position, said handle having a bore therein opening into said space and in axial alinement with and of less diameter than the bore in the head, said plunger having a bore in the inner end portion thereof of substantially the diameter of the bore in the handle and alined therewith, a helical spring having its end portions extending into the bores in the handle and the plunger and acting against the plunger to yieldingly hold it in its normal position, and a pointed centering pin projecting from the center of said end surface.

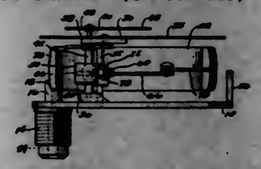
1,922,615
CONTINUOUS PROCESS AND DEVICE FOR REPRODUCING PRINTS BY CONTACT ON GAUFFERED FILMS
Rodolphe Berthon, Neuilly sur Seine, France, assignor to Kislyn Corporation, a Corporation of Delaware
Application March 12, 1931, Serial No. 522,137, and in France March 19, 1930
2 Claims. (Cl. 95—75)

1. The method of copying pictures from one film to another, both of which films have lenticulations extending transversely of their lengths, which comprises feeding said films sub-



stantially in contact past a source of light at slightly different speeds.

1,922,616
CALIBRATING MEANS FOR OIL GAUGES
Benjamin H. Chisholm, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan
Application July 5, 1928. Serial No. 290,518
13 Claims. (Cl. 73—109)



9. In an adjusting means for a gauge having a pressure responsive means, a pointer, a shaft on which the pointer is mounted, means connecting the pressure responsive means and shaft to move the shaft, said means including a pivotal connection and a plurality of interengaged threaded members mounted on the shaft to adjust the moving means to cause the pointer to change its direction of swing in response to the same movement of the pressure responsive means, said threaded members being capable of moving the connection across the shaft to obtain adjustments for all positions of the connection on both sides of the shaft.

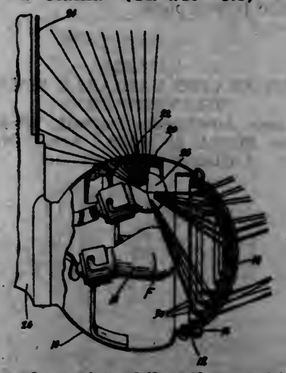
1,922,617
VEHICLE LIGHTING FIXTURE
Donato Di Carlo, Philadelphia, Pa.
Application November 3, 1932. Serial No. 640,919
2 Claims. (Cl. 40—133)



1. A vehicle lighting fixture comprising a housing having a plurality of plane colored transparent walls forming a chamber mounted therein, an illuminating element within the colored chamber, guide flanges formed upon the housing, and a unitary structure slidably positioned upon the flanges, said unitary structure comprising a translucent sheet, and an opaque sheet having

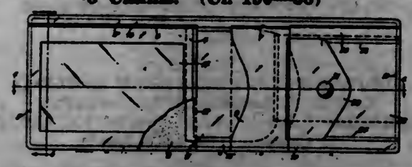
characters cut therefrom disclosing the translucent sheet therethrough and maintaining both of said last mentioned sheets parallel with one wall of the chamber.

1,922,618
CATADIOPTRIC LENS
John B. Dickson, Huntington Woods, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware
Application July 16, 1932. Serial No. 622,835
1 Claim. (Cl. 240—8.3)



In a lamp for automobiles, the combination of a housing having an aperture therein, a lens in the aperture provided with an annular dioptric prism and with surrounding annular catadioptric prisms, said prisms having a common focus, a source of light at the focus, the rays from said source striking the lower surface of said catadioptric prisms and refracted and reflected thereby uniting with the rays passing through the dioptric prism to form a beam of substantially parallel rays, a source of light arranged above the focus so as to cast its rays upon the upper surface of said catadioptric prisms, a portion of said rays being refracted and reflected thereby and emerging as a second beam, said housing being provided with a second opening adjacent said second source for the projection of light therethrough for the illumination of adjacent objects.

1,922,619
BILL FOLD
Prince A. Gardner, Jr., St. Louis, Mo.
Application November 11, 1931
Serial No. 574,305
8 Claims. (Cl. 150—38)



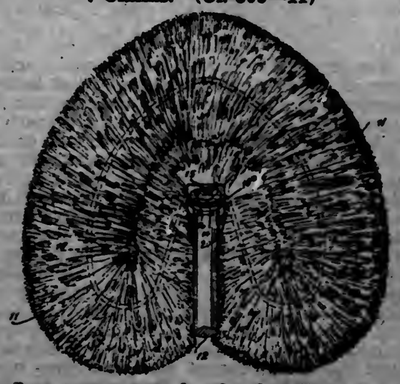
1. In a billfold having inner and outer wall forming members cooperating to form between them a bill compartment, a section of flexible and pliable material having its upper edge extended into said compartment and attached to the inner side of said inner wall forming member and having its outer portion extending downwardly against the outer side of the inner wall forming member and folded upwardly upon itself, an additional section of flexible and pliable material having its lower edge attached to the lower edge of said inner wall forming member and having its upper portion folded downwardly upon itself, and a wall forming member having its upper and lower edges attached to the edges of said sections respectively and having its outer end attached to the outer end of said inner wall forming member.

1,922,620
DEVICE FOR CUTTING SHEET MATERIAL
David H. Goodwillie and Emmett L. Walters, Toledo, Ohio, assignors, by mesne assignments, to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a Corporation of Ohio
Original application May 12, 1928, Serial No. 277,115. Divided and this application May 21, 1930. Serial No. 454,254
15 Claims. (Cl. 49—14)



1. In a cutting device, the combination with two spaced ledger plates, of a rotary cutter including two spaced disks operable in shearing relation to the respective ledger plates to sever sheet material extending across the same, and a third disk between the other two disks and coaxial therewith, said third disk having a greater diameter than the other two disks.

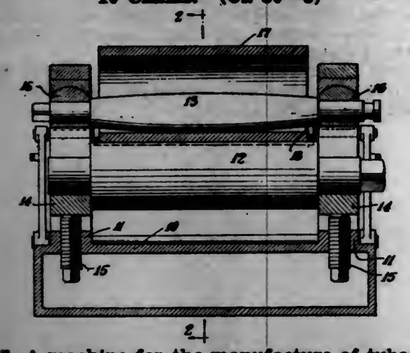
1,922,621
MOP
Harry Hertzberg, New York, N. Y.
Application June 15, 1932. Serial No. 617,267
7 Claims. (Cl. 300—11)



1. In a mop, a mop head, a handle and a flexible connection including two axes perpendicular to each other and to said handle, said connection joining said head rotatably to said handle by one of said axes and oscillatably by the second

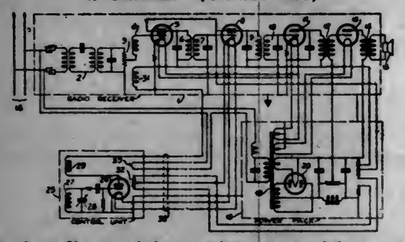
axis, said connection being formed of a single strip of pliable material as rubber to yield about both axes.

1,922,622
TUBE ROLLING APPARATUS
Robert K. Hopkins, St. George, Staten Island, N. Y., assignor to The M. W. Kellogg Company, New York, N. Y., a Corporation of Delaware
Application September 12, 1930 Serial No. 481,392
10 Claims. (Cl. 80—5)



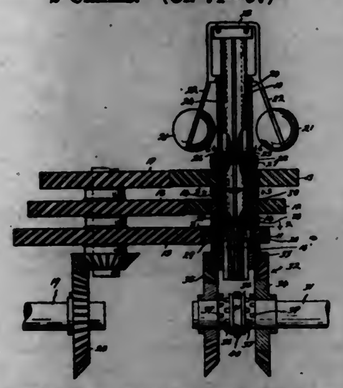
7. A machine for the manufacture of tubes or hollow bodies comprising a main roll and a cambered roll and means for varying the angular relation between the axes of said rolls.

1,922,623
WIRED RADIO RECEIVING SYSTEM
Alfred H. Hotopp, Jr., Caldwell, N. J., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware
Application May 17, 1932. Serial No. 611,835
2 Claims. (Cl. 250—20)



1. A radio receiving system comprising, an input circuit having fixed constants and broadly responsive to a plurality of discrete program frequency bands, an electron tube for amplifying said frequency bands and having a control circuit including an inductance coupled with said input circuit, a selection circuit having fixed constants and responsive to a single program frequency band and coupled with the output circuit of said electron tube, a remotely situated oscillator including a variable condenser for producing controlled frequencies, a second inductance coupled with said first mentioned inductance, connections for feeding said oscillations to said second inductance whereby said oscillations are combined with said program frequency bands for causing a selected one of said frequency bands to fall within the range of frequencies to which said selection circuit is responsive under control of said variable condenser in said remotely situated oscillator, another electron tube having an input circuit including said selection circuit, a power pack in the vicinity of said electron tubes for supplying operating voltages thereto, a cable from said radio receiving system to said oscillator for carrying said connections, a potentiometer in the vicinity of said oscillator, connections from said power pack through said cable to said potentiometer and from said potentiometer through said cable to said second mentioned electron tube for applying control potentials thereto to govern the amplification of said selected program frequency band, connections from said power pack through said cable for causing the energization of said oscillator, and a switch in the vicinity of said oscillator for controlling the operation of said power pack.

1,922,624
AUTOMATIC VARIABLE SPEED TRANSMISSION
Louis Lombardo, Detroit, Mich.
Application March 28, 1932. Serial No. 601,636
2 Claims. (Cl. 74—97)



1. A power transmitting unit for motor vehicles comprising, a drive shaft, a driven shaft, a power take-off shaft, variable ratio means for operatively connecting the driven and power take-off shafts to rotate the latter at different speeds from the former, means for operatively connecting the driven shaft to the drive shaft including a gear freely rotatably mounted on the latter shaft, a second gear fixed to the driven shaft and arranged in constant mesh with the drive gear, means operable in dependence upon manipulation of a control for accelerating the drive shaft to automatically connect the drive gear to the latter shaft, and means operable in dependence upon the speed of rotation of said driven shaft for automatically varying the ratio between the latter and power take-off shaft.

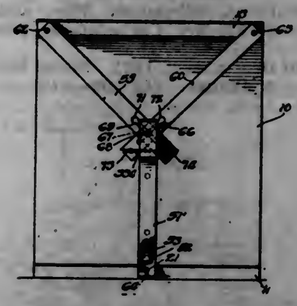
1,922,625
FUSIBLE PLUG FOR STEAM BOILERS
Luther D. Lovekin, Villa Nova, Pa.
Application June 10, 1930. Serial No. 460,164
10 Claims. (Cl. 122—504.3)



1. In a fuse plug of the character indicated, a non-fusible body having a longitudinal perforation, packing of heat insulating refractory

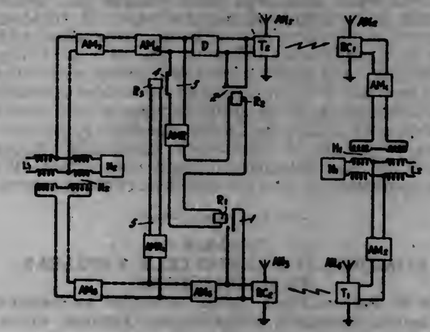
across the fire end of the perforation, a fusible core at the other end of the perforation having a rigid connection with the body normally supporting it from movement toward the fire end of the perforation, and a sheet of metal sealing the core from the water of the boiler.

1,922,626
COLLAPSIBLE EASEL
Harry V. Marsh, Chicago, Ill.
Application March 28, 1931. Serial No. 526,949
3 Claims. (Cl. 40—146)



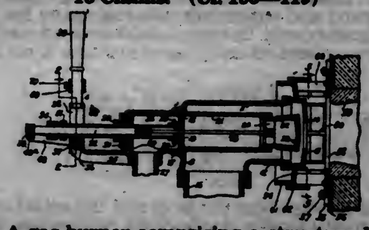
1. An advertising device comprising a poster sheet, an easel therefor comprising strips extending from the corners at one end of said sheet in combination with another strip extending to the opposite end of said sheet, and means for forcing said corner engaging strips together to stretch said sheet longitudinally, all of said strips having their broad faces parallel to the faces of the poster sheet.

1,922,627
TWO-WAY RADIO COMMUNICATION SYSTEM
Robert C. Mathes, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York
Application November 1, 1924. Serial No. 747,164
9 Claims. (Cl. 250—9)



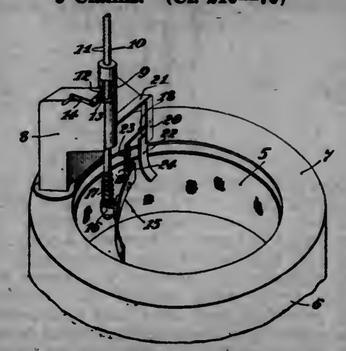
1. A two-way signaling system comprising two paths adapted for transmission in opposite directions between two stations, means connecting said paths in energy flow relation at each station, and automatically operative means including a single delay circuit, inserted in the transmission path corresponding to one direction, to the exclusion of a similar delay circuit in the other path or elsewhere, for preventing round-trip transmission of echo and singing currents.

1,922,628
GAS BURNER
Albert W. Morse, Forest Hills, N. Y.
Application July 9, 1931. Serial No. 549,656
15 Claims. (Cl. 158—119)



1. A gas burner comprising a structure having gas and air connections, gas and air valves, an air register at the outlet end of the burner, operating means for the said valves and the said air register, and means to obtain variable ranges of adjustment for the said valves and register in predetermined proportions to each other from zero to maximum with a constant travel of the said operating means.

1,922,629
MECHANICAL DISCHARGER FOR CENTRIFUGAL EXTRACTORS
Jacob J. Neuman, Jamaica, N. Y.
Application July 30, 1932. Serial No. 626,788
9 Claims. (Cl. 210—70)

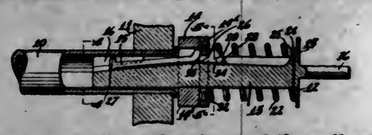


6. In a mechanical discharger for centrifugal extractors, a plow mounted to oscillate about a vertical axis, a spring urging said plow at one of its ends towards the wall of the centrifugal basket, a member adapted to cooperate with means on the other end of the plow to restrain the action of said spring and retain the plow out of operative relation to the basket wall, and means for relatively positioning said member and the cooperating means to effect a sudden release of the restraint upon the action of said spring and the immediate oscillation of the plow to its operative position.

1,922,630
CUTTER FOR CONDENSER TUBES
William F. Oberhuber, Drexel Hill, Pa., assignor to Franklin Development Company, Philadelphia, Pa., a Corporation of Pennsylvania
Application July 17, 1931. Serial No. 551,447
8 Claims. (Cl. 81—195)

1. In a cutter of the character indicated, a plug, a tool and a collar, the plug longitudinally movable with respect to the collar, having a forward portion for insertion into the tube to be

cut and a longitudinal outwardly directed groove along said forward portion and for some distance of its length rearwardly thereof, the bottom of the groove sloping inwardly toward the plug axis from an intermediate portion of its length toward its forward and outer ends, the tool being housed in the groove and having a cutting head toward the forward end of the plug presenting a cutting



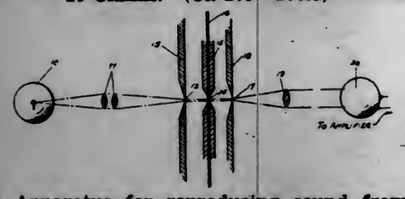
edge outwardly from the plug and the collar having a longitudinally interlocking connection with the tool at an intermediate point thereof and the tool having a rearwardly extending portion engaging the bottom of the rearward portion of the groove to positively retract the tool head inwardly toward the plug axis as the plug moves rearwardly with respect to the collar.

1,922,631

MEANS AND METHOD FOR REPRODUCING SOUND FROM A PHOTOGRAPHIC FILM RECORD

Freeman H. Owens, New York, N. Y.

Application September 17, 1928
Serial No. 306,488
10 Claims. (Cl. 179—100.3)



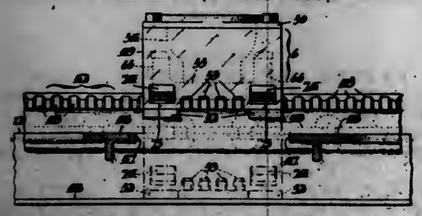
1. Apparatus for reproducing sound from a photographic film record comprising a source of illumination, an apertured film-guide, a film movable past the aperture thereof, a photo-sensitive cell and thin-edged screening means for restricting the effective portion of a beam of light projected from said source of illumination through said film and onto said photo-sensitive cell, the edges of said screening means being disposed in separate planes perpendicular to the axis of said beam whereby the area of said film which at any instant intercepts said beam is less than the film area exposed by said apertured film guide.

1,922,632

MOVABLE ABUTMENT FOR CONTAINER VEHICLES

Samuel H. Owens, Altoona, Pa.

Original application April 28, 1932, Serial No. 608,007. Divided and this application April 28, 1932. Serial No. 608,005
5 Claims. (Cl. 105—366)



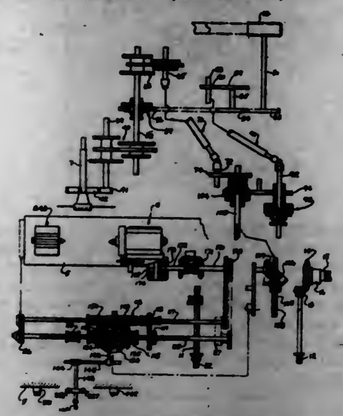
1. In a container carrying vehicle, a platform, a rack inlaid longitudinally in said platform flush with the top thereof, a channel underlying said rack, an abutment movable in said channel, said abutment having teeth for engagement with teeth on said rack, and a movable dog for maintaining said teeth in engagement to lock said abutment on said rack, said rack having openings at intervals through which said abutment may be dropped to housed position below the top surface of said platform.

1,922,633

TRANSMISSION AND CONTROL MECHANISM

Fred A. Parsons, Milwaukee, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis.

Application December 3, 1931. Serial No. 578,685
5 Claims. (Cl. 90—21)



1. In a milling machine, the combination of a rotatable tool spindle, a rotatable work spindle, a support movable for relative bodily reciprocatory movement of said spindles, a screw element and a nut element relatively rotatable for establishing said reciprocatory movement, a motion transmitting connection including rate change gearing and connecting one of said screw and nut elements with said work spindle for establishing predetermined relative rates of rotation thereof, alternative power trains connectible with the last mentioned element, one of said trains including said gearing and the other excluding said gearing, motion interrupting means operable for disconnecting the connected one of said power trains, and a trip device dog operable in accordance with said reciprocatory movement during either of said alternative train connections for the operation of said motion interrupting means.

1,922,634

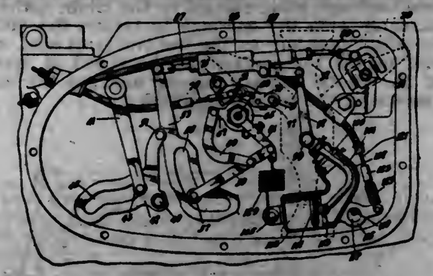
CONTROL FOR INFINITELY VARIABLE TRANSMISSIONS

Earl R. Pierce, Flint, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware

Application December 15, 1932
Serial No. 647,299
6 Claims. (Cl. 74—87)

2. For use in controlling an infinitely variable transmission, a movable part for changing the ratio effected by said transmission, a differential lever, linkage connecting one arm of said lever to said movable part, speed responsive means to rock said differential lever, manually operable means to rock said lever, each of said means

operable about the connection of the other with the lever, other manually operable means to adjust the point of connection of the first manu-



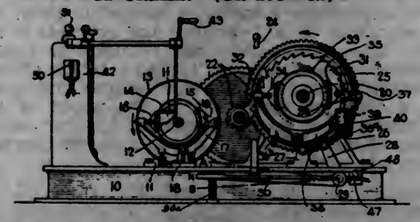
ally operable means with the differential lever whereby the work and power arms of the differential lever are changed.

1,922,635

HOISTING MACHINE

Robert C. Post, Englewood, N. J., assignor to Post & McCord, a Corporation of New York

Application June 20, 1929. Serial No. 372,290
11 Claims. (Cl. 188—82)



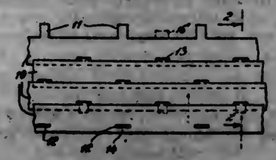
7. In a hoisting machine, the combination with a hoisting drum, of a service brake, a pedal for operating the brake to control rotation of the drum, a safety brake normally in operative position to arrest rotation of the drum, electrically energized means for holding the safety brake in inoperative position, a switch in the circuit of said means and controlled by said pedal for energizing said means while the pedal is in position to control the service brake, and a hand switch also in said circuit.

1,922,636

MOTION PICTURE SCREEN

Albert L. Raven, Mount Vernon, N. Y.

Application October 26, 1931. Serial No. 571,111
12 Claims. (Cl. 88—24)



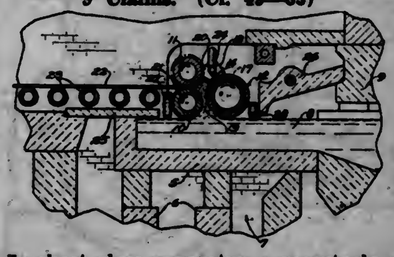
1. A screen for the projection of pictures accompanied by sound comprising a plurality of straight horizontal strips arranged in overlapping spaced relation to form a panel to receive the projected picture having sound passages therethrough extending upwardly from the rear towards the front of the screen, and said strips having means for flexibly suspending the same one from another to permit the screen to hang flat.

1,922,637

APPARATUS FOR PRODUCING SHEET GLASS

Joseph A. Reece, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a Corporation of Ohio

Application November 4, 1927. Serial No. 230,935
9 Claims. (Cl. 49—33)



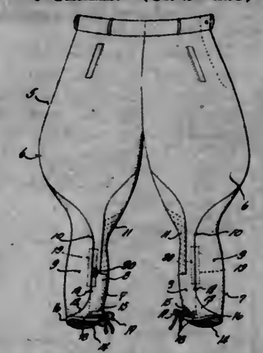
1. In sheet glass apparatus, a receptacle containing a mass of molten glass, a pair of sheet forming rolls disposed thereabove and arranged to create a sheet forming pass, and a feed roll coacting with one of said forming rolls for feeding molten glass upwardly from said mass to said sheet forming pass.

1,922,638

GARMENT

Doré Reichenbaum, Milwaukee, Wis.

Application February 13, 1932. Serial No. 592,761
7 Claims. (Cl. 2—228)



1. In a garment, a leg portion large enough to be passed over the foot and calf of a wearer and sloping downwardly from a wide upper portion to a narrow tight fitting knee portion, means connected with the lower leg portion and extending downwardly from the knee portion to prevent wrinkling and thereby hold the same down.

1,922,639

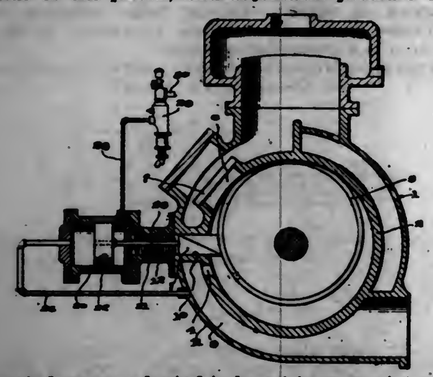
UNLOADING MECHANISM FOR ROTARY COMPRESSORS

Michael Riesner, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia

Application March 13, 1931. Serial No. 522,278
7 Claims. (Cl. 230—149)

5. In a rotary compressor comprising a cylinder, a rotor therein, and a movable abutment controlling the loading and unloading operation of the compressor, the combination of means for controlling the position of said abutment comprising a cylinder, a piston movable therein and connected to said abutment, means connecting

said last named cylinder to the compressor suction to admit fluid under suction pressure at one side of the piston, and adjustable pressure op-



erated means adapted to be set to open at a predetermined pressure to admit fluid under pressure to said cylinder at the other end of said piston.

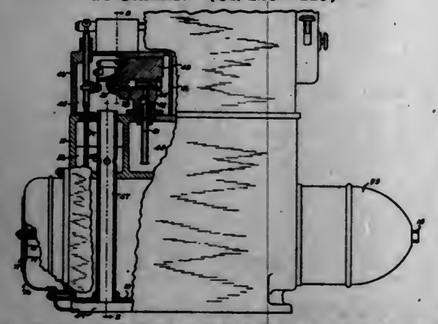
1,922,640

AIR INDUCTION MEANS FOR INTERNAL COMBUSTION ENGINES

Adolph Rosner, Rockton, Ill., assignor to Fairbanks, Morse & Co., Chicago, Ill., a Corporation of Illinois

Original application December 16, 1927, Serial No. 240,524. Divided and this application April 6, 1929. Serial No. 353,195

14 Claims. (Cl. 123—119)



1. In an internal combustion engine, a crank case, an air intake conduit having a portion structurally distinct from, and extending through the crank case, and provided with means for fluid communication with the interior of the crank case chamber.

1,922,641

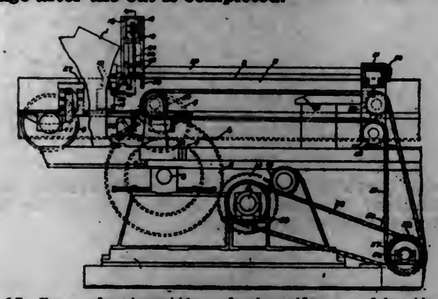
CUTTING MECHANISM FOR SHEET MATERIAL

Harold R. Schutz and Harry E. Robinson, Toledo, Ohio, assignors, by mesne assignments, to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a Corporation of Ohio

Application February 1, 1929. Serial No. 336,872

17 Claims. (Cl. 49—14)

1. The combination with a table mounted for longitudinal travel and adapted to support a sheet to be cut, of a carriage, a cutter on said carriage, means for periodically advancing the carriage a predetermined distance in synchronism with the table, means for actuating the cutter to sever the sheet during the synchronous advance of the carriage, an endless chain having a rearwardly travelling lap adjacent the path of said carriage, a lug carried by the chain and engageable with the carriage to return the latter to initial position, as the lug traverses said lap, and means for controlling the speed of travel of the chain so that the lug engages the carriage after the cut is completed.



15. In a sheet cutting device, the combination of a carriage, parallel guides on which the carriage is slidable, one of said guides comprising a rotatable shaft, a supporting member mounted on said carriage, a rotatable cutter mounted on said supporting member, a motor mounted independently of said carriage and operable to rotate said shaft while the carriage is sliding thereon, means operable by the rotation of said shaft to move said supporting member and cutter in a direction transverse to the travel of the carriage, and means actuated by the movement of said supporting member on the carriage to rotate said cutter.
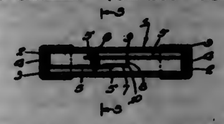
1,922,642

FUSE CONSTRUCTION

Edward V. Sundt, Chicago, Ill.

Application January 20, 1932. Serial No. 587,779

6 Claims. (Cl. 200—131)



1. A construction of the class described including a rigid tube of insulating material having an integral inwardly extending projection disposed at either end thereof, metal end caps rigidly secured to either end of the tube and fixedly engaging the integral projections, and a fuse element disposed intermediate of the end cap sections and provided with metal supporting wires, said wires electrically connecting the fuse element to the end cap members.

1,922,643

ELECTRICAL CONNECTER CONSTRUCTION

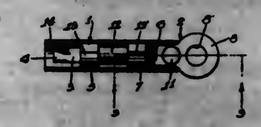
Edward V. Sundt and Bernard Kollath, Chicago, Ill.

Application January 20, 1932. Serial No. 587,780

2 Claims. (Cl. 200—115.5)

1. An electrical connecter construction for physically connecting together adjacent terminals of conductor wires forming part of an electrical circuit, said construction including two grip elements and an elongated bridging element adapted to be connected between said grip elements, each of said grip elements being provided for gripping bands for securely engaging

said bridging element and being also provided with means whereby the terminals of one of said conductor wires may be fixedly secured to said grip element, said bridging element and each



of said grip elements being enclosed in a rubber tube, said rubber tube being stretched for compressing said grip bands upon said bridging element.

1,922,644

STRAIGHT DENTAL HANDPIECE

Walter J. Terry, Seattle, Wash.

Application May 29, 1930. Serial No. 457,012

7 Claims. (Cl. 32—15)



1. In a dental handpiece of the character described, a continuous one piece tubular spindle having a bearing formed by the outer surface thereof at the tip thereof, a removable bearing at the opposite or head end thereof, a removable pulley slidably mounted on the head end of said spindle, a lock nut threaded in the head end of said spindle holding said pulley and bearing thereon, a bur holding chuck in said spindle and adjacent the tip thereof, a rod threaded in said lock nut and extending thru said spindle to operate said bur holding chuck, a sheath surrounding said spindle and in which the bearing at the tip of said spindle is held, a frame, means holding said sheath in said frame, means adjusting the position of said sheath in relation to said spindle, and a locking cap holding said removable spindle bearing and sheath in said frame.

1,922,645

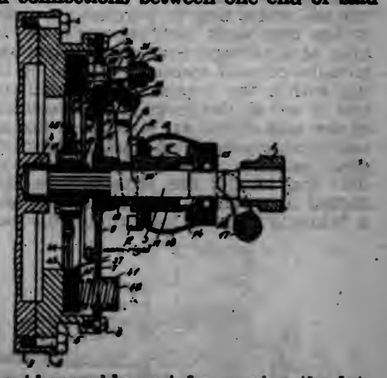
FRICTION CLUTCH

Elmer V. J. Tower, North Syracuse, N. Y., assignor, by mesne assignments, to Automotive Patents Corporation, New York, N. Y., a Corporation of Delaware

Application February 11, 1927. Serial No. 167,467

35 Claims. (Cl. 192—68)

1. A friction clutch comprising the combination of a driving element, a driven element, and means for causing engagement and disengagement of the driving and driven elements, said means including a movable part driven by the driving element for frictionally engaging the driven element, a lever, a relatively fixed pivot between the ends of said lever mounting the same on the driving element, a fulcrum for said lever between the ends thereof and movable about said pivot and engaging said driving element, and connections between one end of said



lever and said movable part for moving the latter as the lever is operated.

1,922,646

PYROXYLIN COMPOSITION CONTAINING DERIVATIVES OF ETHYLENE GLYCOL

Robert Hubbard Van Schaack, Jr., and Robert Calvert, Chicago, Ill., assignors to Van Schaack Bros. Chemical Works, Inc., a Corporation of Illinois

No Drawing. Application October 29, 1926 Serial No. 145,996

9 Claims. (Cl. 134—79)

5. A composition of matter comprising pyroxylin and beta-acetyl oxy-ethyl phthalate.

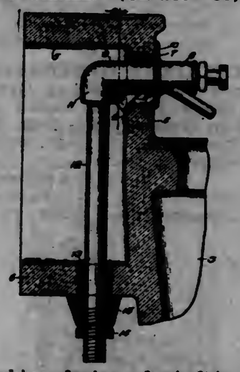
1,922,647

PLUMBING DEVICE

Earl G. Watrous, Chicago, Ill.

Application June 15, 1931. Serial No. 544,561

6 Claims. (Cl. 285—30)



5. A plumbing device adapted to be mounted on a wall, including a barrel portion having a flange with an engaging face at right angles to the axis of the barrel portion and having an integrally formed lug spaced from the face of the flange with an engaging surface opposed to the flange and arranged diagonally thereto.

1,922,648

CIRCUIT CONTINUING DEVICE

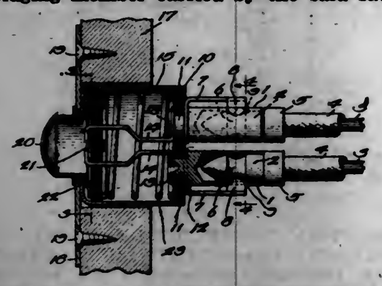
Felix J. Watts, Bronson, Michigan, assignor to Harry A. Douglas, Bronson, Mich.

Application June 13, 1930. Serial No. 461,986

1 Claim. (Cl. 200—51)

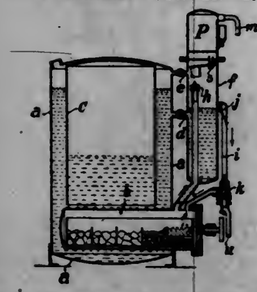
In a circuit continuing device, the combination with a metallic cup; of an insulating

mounting forming a closure for one end of the cup; two tubular jacks carried by the mounting and extending in parallel upon the exterior of the cup, each jack receiving the connecting plug of a current conducting wire; two flexible metallic contact members carried by the mounting within the cup and each anchored at one end to one of the jacks to be in circuit with one of the said wires; an insulating disc in the cup, said contact members having their unanchored ends passing slidably through the insulating disc and having the terminations of said ends turned in a direction to lap a face of said disc; a bridging member carried by the said face of



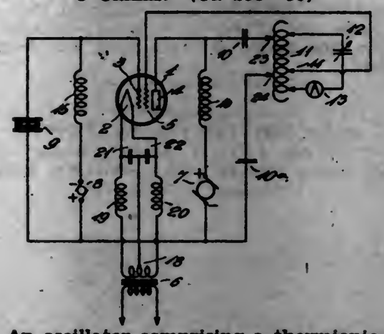
said disc and engageable with the terminations of the first mentioned contacts to provide an electrical bridge therebetween; a coil spring disposed between the insulating mounting and the insulating disc annularly of the control members but spaced therefrom and normally pressing the bridging member against the contact terminations; and a button slidably carried by the end of the cup opposite the insulating mounting and abutting the disc annularly of the contact members but spaced therefrom, said button being movable inwardly of the cup for separating said bridging member from the said terminations to discontinue a circuit therethrough.

1,922,649
ACETYLENE GENERATOR
Heinz Wendtland, Altona, Germany
Application April 18, 1931, Serial No. 531,139, and in Germany April 30, 1930
7 Claims. (Cl. 48—4)



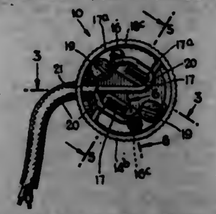
1. In a high pressure acetylene generator, the combination of: a compressed acetylene container comprising a gas chamber and a water chamber; a counter pressure container arranged within said compressed acetylene container so as to form an intervening space between said two containers constituting the gas chamber and part of the water chamber thereof; a separate tubular water supply regulating container arranged entirely externally of said two first-named containers and only connected therewith by means of pipes; a pipe directly connecting said regulating container with the water chamber of said acetylene container; and a second pipe of smaller bore than said first-named pipe, directly connecting said regulating container with the gas chamber of said acetylene container, substantially as described.

1,922,650
CIRCUIT ARRANGEMENT
John A. Willoughby, Cambridge, Mass.
Application December 18, 1928
Serial No. 326,879
3 Claims. (Cl. 250—36)



1. An oscillator comprising a thermionic tube having a cathode, an anode, a control grid and an auxiliary grid, an input circuit connected between said control grid and said cathode, an electromechanical vibrator connected in said input circuit, means for negatively biasing said control grid with respect to said cathode, an output circuit connected between said anode and cathode, and a feed-back connection between said output circuit and said auxiliary grid.

1,922,651
CURRENT-TAPPING CAP-PLUG FITTING
Abraham Abramson, New York, N. Y.
Application July 1, 1932. Serial No. 620,342
1 Claim. (Cl. 173—334)



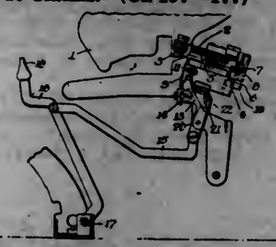
A current-tapping cap-plug fitting of the character described comprising a one-piece cylindrical shell insulating body having spaced front and rear sides, the front side of said body having socket openings extending perpendicularly thereto into said body, the rear side of said body having thin walled chambers extending therein, identically formed current-carrying spring contact members fitted into said chambers and positioned to align with said openings, terminal blades having extensions aligning and connecting with said members, prong ends for said blades projecting from the rear side, offset portions on said blades to provide clearances for the prong ends of a connecting fitting inserted in said openings when connected with said members whereby the last mentioned prong ends are permitted to extend beyond said extensions and in close proximity to the rear side, a projecting rim-band extending peripherally about the rear side, the body being formed with a passage above and adjacent to said rim-band adapted to receive a conductor wire for connecting with said blades, the inner wall of said rim-band being so constructed and arranged to align with the outer wall of the body above said band to permit said passage being molded as part of a core forming the rear side.

1,922,652
SELF-SEALING COLLAPSIBLE TUBE
Edward Andersen, Woodhaven, N. Y.
Application June 12, 1931. Serial No. 543,859
4 Claims. (Cl. 221—60)



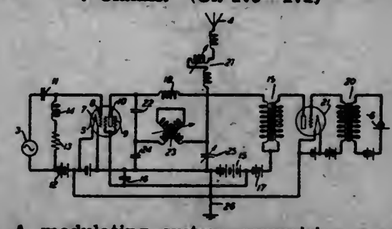
1. In combination with a container which may be collapsed to permit the application of pressure on the contents thereof, a hollow nozzle portion connected to one end of said container, the interior of said nozzle portion forming a passageway through which the contents of the container may be discharged, said nozzle portion having a discharge opening formed in a side wall thereof, and a closure member located within said nozzle portion and normally being of such length as to cover said discharge opening, said closure member being formed of sponge rubber of plane cross-section of such size and shape as to conform closely to the inner wall of said nozzle portion and being adapted to be compressed when pressure is applied to the contents of the container and when thus compressed to be of such length as to uncover said opening.

1,922,653
DEBIT AND CREDIT SHIFT MECHANISM FOR BOOKKEEPING MACHINES
Walter Adelbert Andersen, Rockford, Ill., assignor to Sundstrand Corporation, of Wilmington, Del., a Corporation of Delaware
Application October 16, 1929. Serial No. 399,931
10 Claims. (Cl. 197—177)



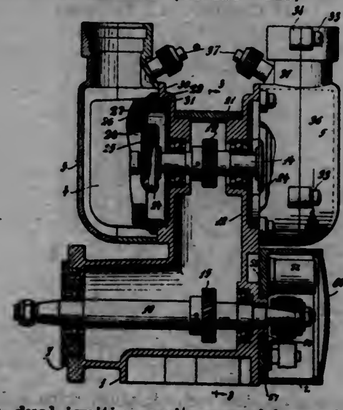
1. In combination with a machine of the class described, a paper carriage, a control plate pivoted to said paper carriage, parts on said plate arranged to travel in different paths, a member on the machine frame movable into position to be engaged by the parts which travel in one path and also being movable into position to be engaged by the parts traveling in the other path, said parts being arranged to ride over said member in the travel of the paper carriage and thus raise the control plate into inoperative position, and manipulative means located at the side of the machine for adjusting said member into either of its two positions.

1,922,654
MODULATING DEVICE
Ralph S. Bair, Nutley, and John B. Bishop, Ridgewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application March 18, 1931. Serial No. 523,404
7 Claims. (Cl. 179—171)



1. A modulating system comprising a space discharge device having a cathode, an anode, a control grid and a screening electrode positioned between said control grid and said anode, a utilization circuit connected between said cathode and said anode, a source of carrier waves connected between said cathode and said control electrode, means for applying a positive biasing potential to said screening electrode, means for biasing said anode to a positive potential at least twice as great as the biasing potential of said screening electrode, but substantially less than required to produce a saturation value of the output current, a source of modulating current connected between said anode and said cathode for superposing a variable potential upon the biasing potential of said anode whereby carrier waves repeated in said utilization circuit are modulated in accordance with the successive values of said modulating current.

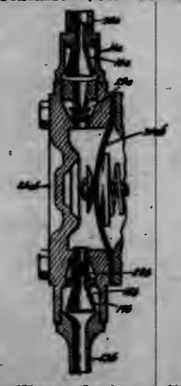
1,922,655
IGNITION DEVICE
Louis Beeh and Wolfgang E. Schwarzmann, Longmeadow, Mass., assignors to United American Bosch Corporation, Springfield, Mass., a Corporation of New York
Application March 22, 1932. Serial No. 600,446
11 Claims. (Cl. 123—148)



1. A dual ignition unit comprising a housing, a pair of distributors mounted on said housing,

the parts of said distributors being separately enclosed, timing devices for said distributors and a casing for said timing devices on the exterior of the housing adjacent one of said distributors and facing in the same direction as said distributor.

1,922,656
HIGH PRESSURE DISCHARGE UNIT
Albert E. Berden, East Orange, N. J., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan
Application June 10, 1929. Serial No. 369,695
5 Claims. (Cl. 103—224)



1. In an auxiliary device suitable for use in proximity to parts of a reciprocatory pump for liquid fuel: a downwardly expanding bell element provided with an inlet opening to its interior at the top thereof; and an annular chamber element surrounding said bell and extending above and below the lower edge thereof and having an outlet opening below said edge and arranged in line with said bell, and which opening is of greater area than the lower end of said bell, to receive and entrap above said edge bubbles outwardly separating from the pumped liquid during its descent through said bell and outlet opening.

1,922,657
MOP
Edgar W. Byars and Alga E. Byars, Goshen, Ind.
Application June 15, 1931. Serial No. 544,383
11 Claims. (Cl. 15—120)



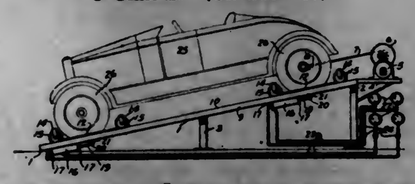
1. In a mop, the combination with a handle, of a head on said handle comprising a pair of clips having registering offsets forming a socket for said handle, means securing said clips to said handle, said clips having radial arms provided with registering offsets forming longitudinal substantially parallel sockets, means securing said arms together, and a resilient holder member having a curved mop supporting portion terminating in inwardly curved loops having laterally extending arms disposed in said sockets, one of said arms having an offset retaining said holder member in place in one of said sockets and the other arm detachably engaging in the other of said sockets whereby it may be sprung out of said socket and said holder rotated on said retaining arm.

1,922,658
WRINGER MOP
Edgar W. Byars, Goshen, Ind.
Application September 28, 1931
Serial No. 565,475
6 Claims. (Cl. 15—120)



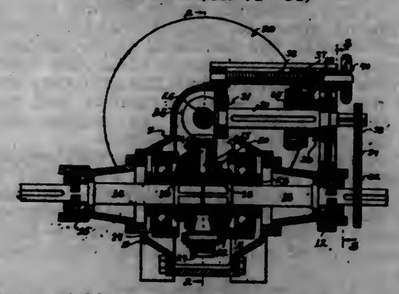
1. In a mop, the combination with a handle having a longitudinal slot adjacent the lower end thereof, a head member on the lower end of said handle, a slide way mounted on said handle in an inclined relation thereto and extending into said slot, a slide on said way, and a holder provided with a spindle rotatably mounted on said slide.

1,922,659
STATIC BRAKE TESTER
Ralph K. Cadwell, Glendale, Calif., assignor to Cadwell-Baird Iron Wks., Los Angeles, Calif., a copartnership consisting of Edward F. Baird and Ralph K. Cadwell
Original application October 7, 1927, Serial No. 224,681. Divided and this application November 1, 1929. Serial No. 403,939
8 Claims. (Cl. 265—47)



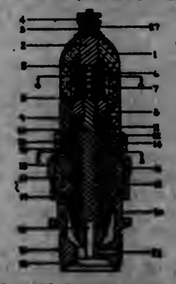
2. In a device of the character described: a movable member adapted to receive a wheel of a vehicle thereon; a supporting structure carrying said member in movable relationship; means for maintaining said supporting structure at a sufficient slope so that the force of gravity will operate to move the vehicle relative to said member; means operative to resist movement of said member; and an indicating device connected to said member for indicating the magnitude of the translational force imparted thereto by said vehicle wheel when rotation of the wheel is resisted by the brake associated therewith.

1,922,660
POWER TRANSMISSION
Peter J. Christman, Green Bay, Wis.
Application November 11, 1932
Serial No. 642,170
1 Claim. (Cl. 74—34)



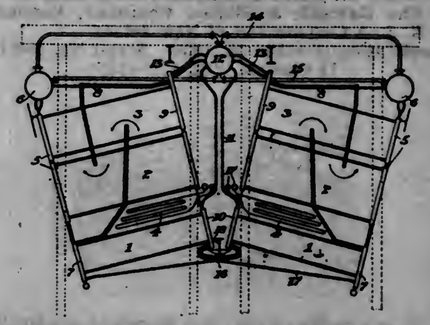
In a variable speed drive mechanism, an input shaft, an output shaft alined therewith, a pair of bevelled gears on the facing ends of said shafts, a rotatable, supported housing, rotatable pinions carried by the housing meshing with said bevelled gears, a ring worm gear connected with the housing, a cross shaft disposed at right-angles to the input and output shafts, a worm secured to the cross shaft engaging the ring worm gear, a friction disc secured to said cross shaft, a counter shaft disposed in spaced parallel relation to the input and output shafts and at right angles to the cross shaft means for positively driving the counter shaft from the input shaft, a friction pulley feathered on the counter shaft and movable over the face of the friction disc, and manual means for shifting said friction pulley.

1,922,661
SPARK PLUG CONTAINING AN INTENSIFYING GAP
James D. Curtis, Collingswood, N. J.
Application April 14, 1931. Serial No. 529,899
3 Claims. (Cl. 123—169)



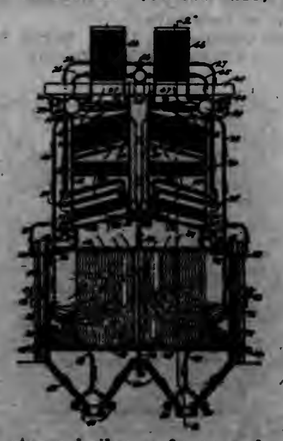
1. A spark intensifying gap for use with spark plugs including in combination an insulating block having a hole therein, and a plurality of cylindrical bodies mounted in said insulating block and having exposed ends.

1,922,662
STEAM BOILER
Christopher Humphrey Davy, London, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey
Application March 17, 1930, Serial No. 436,275, and in Great Britain October 14, 1929
14 Claims. (Cl. 122—239)



1. In a water tube steam boiler installation, an inter-deck steam superheater including superheater headers, and water tube sections having boiler headers forming opposite walls embracing the superheater headers and interposed between the latter and oncoming furnace gases to protect the superheater headers.

1,922,663
WATER TUBE BOILER
James Kemnal, deceased, late of Chislehurst, England, by Linda Larita Kemnal, Chislehurst, Horace James and Roy James Glinn, Blackheath, London, and Archibald Hall-Brown, Purley, England, Executors, assignors to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey
Application August 2, 1927, Serial No. 210,126, and in Great Britain August 9, 1926. Renewed November 9, 1931
10 Claims. (Cl. 122—235)



1. In a steam boiler, a furnace, banks of inclined tubes of said boiler at substantially the same level located above said furnace, said banks being spaced apart lengthwise of said tubes to provide an access space, upright headers to which the ends of said tubes are connected, said headers being supported from above, rows of tubes extending along the roof of said furnace

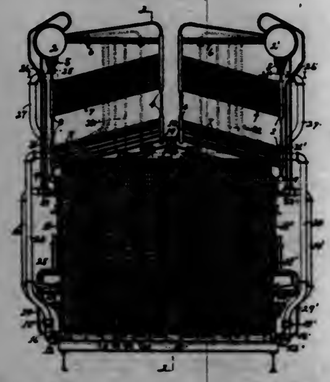
below said banks of tubes, tubes of said rows extending below said access space and being lined to close the lower end of said space.

1,922,664
VAPOR GENERATOR
Howard J. Kerr, Westfield, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey
Application October 30, 1930. Serial No. 492,131
14 Claims. (Cl. 122—235)



1. In a boiler of the class described, a plurality of banks of steam generating tubes, rows of inside headers for each bank of tubes in the path of hot gases of combustion from the boiler furnace, rows of steam generating tubes adapted to serve as a slag screen for said first named tubes, the ends of said slag screen tubes extending beyond said headers and being bent back and expanded into the lower ends of said headers, a plurality of fins secured to said slag screen tubes in the inner sides of their bent portions, refractory material covering said fins and being secured to the tubes thereby, said tubes and refractory material serving as a protection to the bottom of said headers from the hot gases of combustion.

1,922,665
DUPLEX BOILER AND FURNACE WALL HAVING WATER WALLS
Dana H. N. Mayo, Bethlehem, Pa., assignor to Fuller Lehigh Company, Fullerton, Pa., a Corporation of Delaware
Application October 16, 1930. Serial No. 489,067
2 Claims. (Cl. 122—235)



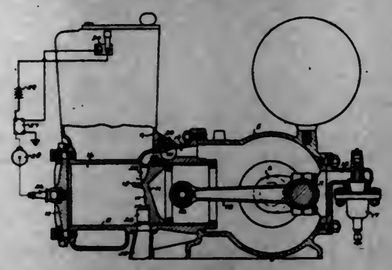
1. In combination, a furnace, water tube boilers above said furnace, and upwardly disposed tubes in the walls of said furnace, upper and lower headers to which tubes in opposed walls are connected and the tubes in one half of said furnace walls being connected to the water circulation system of one of said boilers only and the tubes in the other half of said furnace being connected to the water circulation system of the other boiler only.

1,922,666
GAS MEASURING PROCESS AND APPARATUS
Harold Ashley Daynes, Cambridge, England
Application December 21, 1926, Serial No. 156,215, and in Great Britain January 22, 1926
8 Claims. (Cl. 23—232)

2. Apparatus for determining the quantity of a gas dissolved in a liquid towards which it is chemically inactive, comprising a scrubbing device, a gas-comparing device having two compartments, means for passing the gas-containing liquid through the scrubbing device, means for passing a second gas that is chemically inactive towards the liquid through the scrubbing device and into one of the compartments, and means for passing a quantity of the original second gas into the other compartment.

7. A method of treating gases that comprises scrubbing a liquid containing a first gas with a second gas of different thermal conductivity, and comparing the thermal conductivity of a quantity of the scrubbed gas with the thermal conductivity of a quantity of the original second gas.

1,922,667
FUEL IGNITING MEANS AND METHOD
William C. Dehn, Three Rivers, Mich., assignor to Fairbanks, Morse & Co., Chicago, Ill., a Corporation of Illinois
Application August 29, 1930. Serial No. 478,679
11 Claims. (Cl. 123—73)



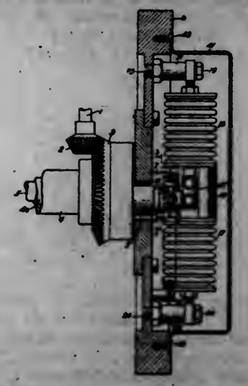
6. In an internal combustion engine of two-cycle low compression, crankcase scavenging type, a piston, a cylinder, a crankcase, a by-pass between the crankcase and the inner end of said cylinder, said by-pass terminating in an inlet port, a throttle having a notched or indented portion disposed in said by-pass, an open auxiliary groove in said by-pass disposed between the throttle and cylinder and in line with the indent of said throttle, a baffle on said piston extending transversely of the face thereof, and formed of a material different than that of the body of said piston, an exhaust port so disposed with respect to said inlet port as to be opened in advance of the inlet port and to remain open during the time said inlet port is open, said throttle, ports and baffle being arranged to initiate oxidation of the charge upon introduction thereof to the cylinder, to continue such oxidation through the compression stroke of said piston, whereby completely to ignite the remainder of the charge substantially at the beginning of the power stroke of said piston.

1,922,668
METHOD OF UNITING MEMBERS
Theodore Williams Dike, New Westminster, British Columbia, Canada, assignor, by mesne assignments, to Laminating Patents Corporation, Seattle, Wash., a Corporation of Delaware
Application March 1, 1932. Serial No. 596,070
17 Claims. (Cl. 144—309)



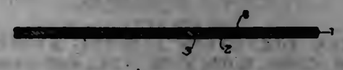
1. A method of causing adhesion, comprising applying particles of adhesive-providing material, applying to said particles a liquid in atomized condition, assembling and subjecting to bonding conditions.

1,922,669
COUPLING DEVICE
Lloyd A. Elmer, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application January 25, 1930. Serial No. 423,363
8 Claims. (Cl. 64—100)



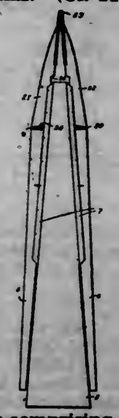
1. In a mechanical transmission system, a rotatable driving member, a rotatable driven member, means coupling said members comprising a cylindrically enclosed bellows containing a fluid, and means to vary the effective stiffness of the coupling over a wide range of values, said means comprising a replaceable connection between said coupling means and said rotatable members.

1,922,670
PHOTOGRAPHIC PAPER
Elisha Porter Easley, Hinsdale, Ill.
Application June 17, 1929. Serial No. 371,738
1 Claim. (Cl. 95—8)



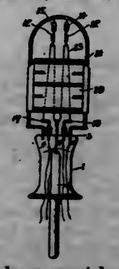
A non-curling and non-blistering photographic paper comprising paper having a light-sensitive-material supporting coating on one side and having the interstitial spaces in the paper completely filled with a gelatinous substance tending to make the coated paper somewhat homogeneous in structure and free from entrained air, surplus substance being scraped from the back of the paper so as to leave the ends of the fibers exposed.

1,922,671
PELT STRETCHER
Samuel Julius Falley, Rockford, Ill.
Application August 13, 1930. Serial No. 475,079
11 Claims. (Cl. 149—21)



1. In a stretcher comprising an elongated body provided with forwardly converging longitudinal edges, the combination of a pair of elongated side rails alongside and slidable lengthwise of the opposite longitudinal edges of the body member, and a pair of end sections constituting continuations of the side rails, said sections being flexibly connected at one end of each to the latter and being flexibly connected to one another at the other end.

1,922,672
DISCHARGE TUBE
Hendrik Filippo, Eindhoven, Netherlands, assignor to Radio Corporation of America, a Corporation of Delaware
Application November 26, 1927, Serial No. 235,775, and in the Netherlands January 22, 1927
4 Claims. (Cl. 250—27.5)



1. A discharge tube mount having a glass stem, a cathode mounted on said stem, a cathode support comprising a metal member supported on said stem and another metal member engaging said cathode, and an insulating connector for said metal members having between said metal members a roughened surface of calcium oxide.

1,922,673
REDUCING ELECTRICAL LEAKAGE IN DISCHARGE TUBES
Hendrik Filippo, Eindhoven, Netherlands, assignor to Radio Corporation of America, a Corporation of Delaware
Application December 1, 1927, Serial No. 236,972, and in the Netherlands December 1, 1926
3 Claims. (Cl. 250—27.5)

1. In an electrical discharge device, a glass stem comprising a flattened press, a plurality

of conductors sealed into and projecting from said press, and a coating of coarse calcium oxide on the end of said press between the points



where said conductors are sealed into said press and having a rough surface larger than the coated surface of said glass press.

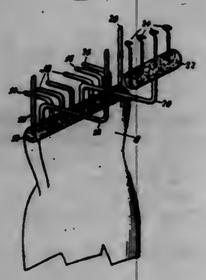
1,922,674

INSULATION IN ELECTRIC DISCHARGE TUBES

Johannes Gysbertus Wilhelm Mulder, Eindhoven, Netherlands, assignor to Radio Corporation of America, a Corporation of Delaware

Application April 24, 1928, Serial No. 272,390, and in the Netherlands May 7, 1927

2 Claims. (Cl. 250—27.5)



1. An electron discharge device comprising an envelope enclosing cooperating electrodes, a glass stem projecting into said envelope and having a press, metal conductors sealed into and projecting from said press, and a coating of insulating glaze consisting of vitrified enamel consisting principally of lead oxide and boron oxide and with a melting point slightly below the softening temperature of said press covering the end of said press between said conductors and the portion of said conductors adjoining said press.

1,922,675

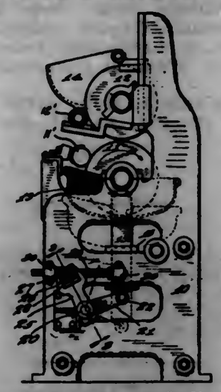
ROLL GLUE SPREADER

Harry G. Francis, Rushville, Ind., assignor to Chas. E. Francis Co., Rushville, Ind., a Corporation of Indiana

Application January 20, 1930. Serial No. 421,934

2 Claims. (Cl. 91—51)

1. In combination, a frame, an adhesive-spreading roll rotatably supported therefrom on a substantially horizontal axis, a pan located beneath said roll and adapted to contain a supply of adhesive into which the roll may dip, guiding means supporting said pan for vertical movement toward and away from said roll, a shaft, means operatively interconnecting said shaft and pan whereby rotational movement of said shaft will produce vertical movement of said pan, and control means for adjusting said



shaft, said control means including a screw rotatably mounted in said frame.

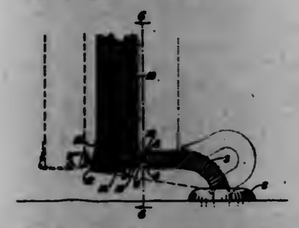
1,922,676

CLOSURE HOLDING DEVICE

Curtis Greene, San Diego, Calif.

Application September 10, 1930 Serial No. 480,927

2 Claims. (Cl. 292—87)



1. In a device for retaining in position a closure having a portion adapted to move adjacent a supporting surface and a retaining means carried by said closure in proximity to said surface, a fastening means for said closure comprising a helical coiled spring member adapted to be flexed and extended longitudinally and terminating in convolutions tapering toward the axis thereof, an internally threaded retaining member adapted to be secured to the supporting surface and to receive the tapered end of said spring, a plug secured to and projecting from the free end of the spring member, the spring member normally projecting substantially vertically from the supporting surface across the path of the movable closure so that the resilient member will be engaged by the closure and will be flexed, and a catch portion on said plug adapted to engage the retaining means on the closure.

1,922,677

RADIO DIRECTION FINDING SYSTEM

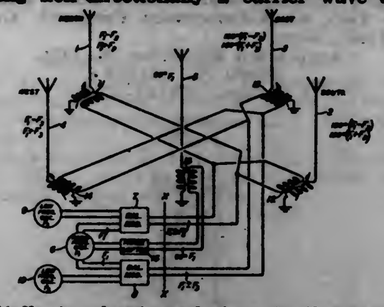
John W. Greig, Little Falls, N. J., and Arnold B. Bailey, New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York

Application October 15, 1931. Serial No. 568,903

13 Claims. (Cl. 250—11)

2. In a radio system, means for transmitting bi-laterally double side band waves with suppressed carrier, means for transmitting bi-laterally and at an angle to the first transmission

different double side band waves with suppressed carrier, and means for producing and transmitting non-directionally a carrier wave sub-



stantially in phase quadrature to the carriers employed for producing the double side band waves.

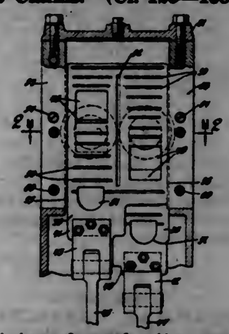
1,922,678

SLIDE VALVE ENGINE

George E. A. Hallett, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware

Application October 22, 1928. Serial No. 314,240

9 Claims. (Cl. 123—188)



1. In an internal combustion engine, a combustion chamber, a pair of ports opening through the wall of the combustion chamber, and a flat slide valve provided with relatively movable portions each having therein a port adapted to register with the one of the ports in the wall of the combustion chamber.

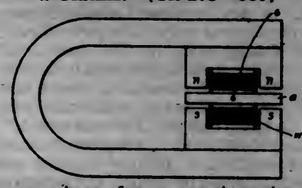
1,922,679

ARMATURE FOR MAGNETIC LOUD SPEAKERS

Arthur Hammer, Berlin, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany

Application February 12, 1932, Serial No. 592,469, and in Germany April 25, 1931

2 Claims. (Cl. 175—339)



1. An armature for magnet systems of the moving iron type comprising a body adapted to extend between a pair of magnetic fields the lines of force of which cut said body at different parts thereof and a perforation in said body for removing a substantial portion of that part of the body which lies between the parts cut by said magnetic fields.

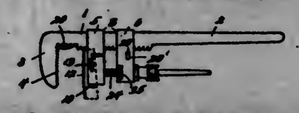
1,922,680

COMBINATION WRENCH

Dozier F. Hasty, Atlanta, Ga.

Application August 7, 1931. Serial No. 555,826

1 Claim. (Cl. 81—186)



A wrench adapted to clampingly engage a nut, pipe or the like, including an integral handle, body portion and fixed toothed jaw, a slidable unit mounted on said body portion comprising a jaw holder member and an anchor member, means interconnecting said members for effecting their relative adjustment, a toothed jaw member slidably mounted in said holder, said body portion formed adjacent said fixed jaw with teeth, a depressible spring connected to said body portion normally extending beyond said teeth, whereby said object to be clamped is held out of contact with said teeth until pressure is exerted thereon by said slidable jaw.

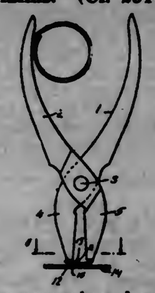
1,922,681

REMOVING TOOL FOR SHEET BINDING STAPLES

Arthur R. Heise, Woodbridge, Conn., assignor to The Wm. Schollhorn Company, New York, N. Y., a Corporation of Connecticut

Application December 14, 1931. Serial No. 580,769

6 Claims. (Cl. 254—28)



1. A device for removing sheet binding staples comprising a blade adapted to enter beneath the body of the staple and the material holding the same, said blade having a pair of spaced shoulders for engaging the front sides of the staple prongs, and means for forcing said blade between the staple body and the material holding the staple, and for thereafter carrying said staple body along the upper surface of said blade beyond said shoulders, thereby to straighten the prongs of the staple and draw the same from the material.

1,922,682

METHOD OF CONVERTING POTASSIUM CHLORIDE INTO POTASSIUM SULPHATE

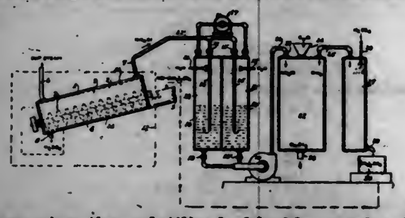
August Holz, Irvington, N. J.

Application August 15, 1931. Serial No. 557,200

1 Claim. (Cl. 23—121)

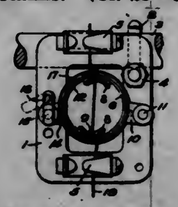
A method of producing potassium sulphate consisting in slowly passing a reacting mixture

of potassium chloride and ammonium sulphate through a zone heated at a temperature above the volatilization point of ammonium chloride and below the melting point of potassium sulphate, continuously removing the resulting potassium sulphate from said zone, also continuous-



ly removing the volatilized chloride, condensing said chloride, treating the condensed ammonium chloride with lime, absorbing the liberated ammonia in sulphuric acid and using the recovered solid ammonium sulphate for the conversion of additional quantities of potassium chloride.

1,922,683
THREAD AND YARN CLEARER
Samuel Hyslop, Newton, Mass.
Application February 1, 1932. Serial No. 590,088
4 Claims. (Cl. 28—64)



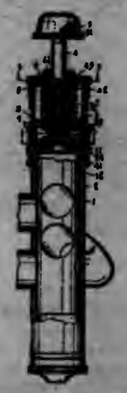
1. A thread clearer comprising a base, a ring and a collar thereon with registering thread slots providing normally a straight thread path, said members overlapping and eccentrically mounted for swinging movement to provide a tortuous thread path when moved by an imperfect thread, and a swinging locking member on the base to removably secure the collar and ring thereto.

1,922,684
LOCKING DEVICE FOR THREAD CLEARERS
Samuel Hyslop, Newton, Mass.
Application October 15, 1932. Serial No. 637,945
3 Claims. (Cl. 28—64)



1. A thread clearer comprising a base, means to lock it to a machine, a clearing collar, and a clearing ring movably mounted on the base, the ring having upstanding segmental posts at circumferentially opposite points thereon, registering thread slots in the collar and posts, the collar and ring adapted to be swung out of registering position to clamp the thread when engaged by an imperfection on the thread, and collar locking means to lock the collar against swinging motion during travel of the thread clearer to operative position.

1,922,685
VALVE STRUCTURE
Alfred J. Johnson, Grand Rapids, Mich., assignor to York Band Instrument Company, Grand Rapids, Mich.
Application September 26, 1931.
Serial No. 565,259
3 Claims. (Cl. 84—392)



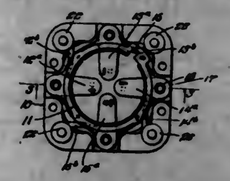
1. The combination of a valve casing, a reciprocating piston therein, a valve casing head, a screw cap therefor having a central perforated hub, a piston valve within said casing, a stem therefor adapted to reciprocate through the said hub, a cylindrical expansion coiled spring for said valve, a top supporting flange therefor retained by the said cap having a central seat and engaging lug for the top coil of the said spring, a bottom supporting flange therefor the periphery of said flange being formed with a seat and lug for the bottom coil of the said spring, and a screw threaded hub to carry said flange adjustably on the said stem.

1,922,686
ELECTRICAL CONNECTER
Raymond Johnson, Brooklyn, N. Y., and Claude Theodore Siebs, Nutley, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York
Application May 4, 1928. Serial No. 275,050
1 Claim. (Cl. 173—322)



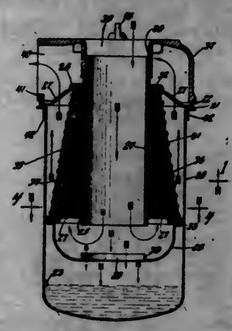
In an electrical plug adapted to be electrically connected to an insulated conductor, an electrical conducting tip having an externally threaded base portion with a bore therein for receiving the conductor, a shell of insulating material having an aperture in one end thereof for receiving the insulated conductor, a threaded bore in the other end thereof for receiving the threaded base portion of the tip, and a second aperture larger than the first mentioned aperture extending between the threaded bore and the first mentioned aperture and forming a shoulder at the junction of the two apertures, and a clamping device comprising externally tapered sleeve segments adapted to engage a large area of the surface of the insulated conductor, and a member having an internally tapered bore adapted to be assembled over said segments to effect a clamping action on said insulated conductor, said clamping device adapted to be secured in the second mentioned aperture with the ends thereof against the shoulder in the shell and the base portion of the tip.

1,922,687
SHOCK ABSORBING SOCKET
John Juergens and Reuben B. Benjamin, Chicago, Ill., assignors to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois
Original application September 17, 1923, Serial No. 663,031. Divided and this application April 27, 1926. Serial No. 104,979
1 Claim. (Cl. 173—328)



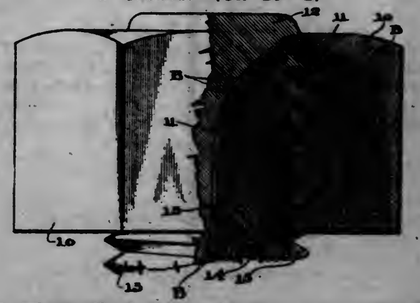
A socket for receiving an insertable device, which device has pin contacts and is inserted by a movement including a turning movement, said socket having a flat spring contact member engaged by the end of one of the pins and having a slot therein in a position traversed by the pin while the device is being turned into or out of position, said slot being of dimensions to exclude the pin therefrom, whereby the pin will be scraped by the edge of the slot but will rest against the flat spring surface when in normal contact position.

1,922,688
MULTISTAGE TYPE AIR CLEANER
Herbert G. Kamrath, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan
Application June 10, 1929. Serial No. 369,561
4 Claims. (Cl. 183—10)



2. In an air cleaner, a body in which there is provided an air passage and an annular air passage surrounding the first mentioned air passage and communicating at its lower end with the lower end of the first mentioned air passage, a spacer extending between the upper ends of the walls of the passages, a spacer extending between the lower end of the walls of the passages, a filter element located in the annular passage and subdividing it longitudinally, an adhesive surface located below the lower ends of the passages, and a baffle carried by the lower spacer to prevent the current of air flowing through the body from impinging directly against the adhesive surface.

1,922,689
METHOD OF FORMING SCREW-THREADED MEMBERS
Hans G. H. Linnenbruegge, Buffalo, N. Y.
Application July 11, 1931. Serial No. 550,936
3 Claims. (Cl. 10—1)

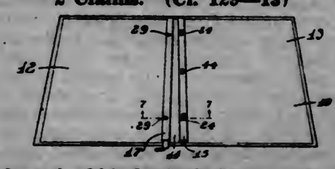


1. The method of manufacturing screw-threaded members consisting in heating the barstock from which the screw-threaded member is to be made, to a predetermined thermal degree above the surrounding atmospheric temperature, and then cutting the threads thereon while heated.

1,922,690
RESINOUS COMPLEX OR COMPOSITE OF THE UREA ALDEHYDE CONDENSATION TYPE AND THEIR SOLUTIONS
Boris N. Lougovoy, New York, N. Y., assignor to Ellis-Foster Company, a Corporation of New Jersey
No Drawing. Application August 23, 1930
Serial No. 477,471
3 Claims. (Cl. 134—26)

1. A composition containing a soluble condensation product of the urea-formaldehyde type, nitrocellulose, and an organic solvent for the condensation product and nitrocellulose.

1,922,691
LOOSE LEAF BINDER
Cyrus E. Morehouse, Clifton Heights, Pa., assignor to National Publishing Company, Philadelphia, Pa., a Corporation of Pennsylvania
Application March 16, 1932. Serial No. 599,177
2 Claims. (Cl. 129—13)



1. A loose leaf binder including a pair of covers flexibly connected through a back portion, a corresponding pair of bars intermediate said covers, connected thereto and extending generally parallel to the back thereof and in proximity thereto, a plurality of posts projecting from one of said bars, having enlarged heads, the other of said bars having a corresponding plurality of recesses for the reception of the heads of said posts by a relative movement in the plane of said bar, and said latter bar having portions engaging beneath said heads when received within said bar, thereby to engage the said posts in an axial direction with respect thereto, and a slide carried by said latter bar, adapted to close the entrances of said recesses in said bar and to open the same at will.

1,922,692
FLUX
August R. Nyquist, Bascom, Minn.
Application March 25, 1930. Serial No. 438,834
1 Claim. (Cl. 148—26)



A flux for electric arc welding comprising magnesium sulphate, potassium nitrate, calcium carbonate, and magnesium carbonate, all in substantially equal proportions.

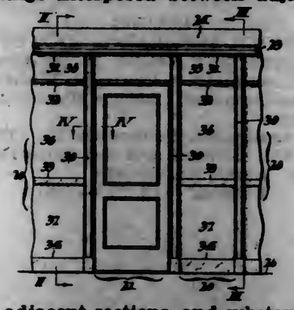
1,922,693
EXTRACTING IODINE FROM NATURAL WATERS AND THE LIKE
Leonard C. Chamberlain, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan
No Drawing. Application March 2, 1931
Serial No. 519,696
2 Claims. (Cl. 23—217)

1. In a method of extracting iodine adsorbed upon active carbon or charcoal, the steps which consist in subjecting the iodine-charged charcoal to the action of steam at a temperature between 100° and 200° C., whereby a portion of the iodine is vaporized therefrom, then subjecting to the action of superheated steam at a temperature between 200° and 300° C. to vaporize a further portion of the iodine, cooling and condensing the vapors and separating iodine from the aqueous condensate.

2. The method of producing iodine from natural iodiferous brines and the like which comprises liberating the iodine in the brine, removing the free iodine from the brine by contacting the latter with active charcoal, separating the iodine-charged charcoal from the brine, subjecting such charcoal to the action of steam at a temperature between 100° and about 200° C. to vaporize a portion of the iodine therefrom, then subjecting to the action of steam superheated to a temperature between about 200° and about 300° C. to vaporize a further portion of the iodine, cooling and condensing the vapors and separating iodine therefrom.

1,922,694
PARTITION CONSTRUCTION
Conrad T. Hansen, Bywood, Pa., assignor to Hale & Kilburn Co., Philadelphia, Pa., a Corporation of Delaware
Application November 21, 1931
Serial No. 576,493
8 Claims. (Cl. 189—34)

1. A partition construction of the character described comprising, as independent structural units, a plurality of sound-insulated partition sections with metal uprights at their opposite edges, means for securing said uprights in position to maintain the sections erect, sound-insulative fillings interposed between adjacent up-

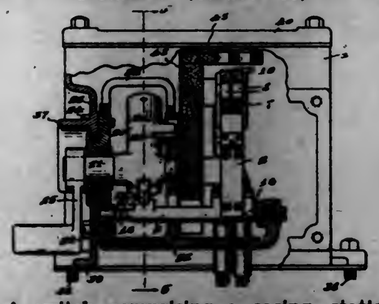


rights of adjacent sections, and substantially coexistent with their internal width, and sheet metal covers secured over the intervals between said uprights.

1,922,695
MANUFACTURE OF PHENYL PHENOLS
William J. Hale, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan
No Drawing. Application December 18, 1930
Serial No. 503,234
3 Claims. (Cl. 260—154)

1. The method of making phenyl phenols which comprises introducing a monohalogenated benzene into a hot aqueous alkali metal phenate solution containing phenol maintained under pressure at a temperature between 350° and 420° C. and separating phenyl phenols from the product.

1,922,696
SINGLE POLE DOUBLE THROW QUICK MAKE AND BREAK SWITCH
Clarence A. Hardage, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York
Application February 18, 1931. Serial No. 516,594
4 Claims. (Cl. 200—68)



4. A switch comprising a casing, stationary contacts mounted within the casing, and a movable switch member for coacting with the contacts respectively, operating mechanism for shifting the movable switch member including a support detachably secured to one side of the casing and having a rock shaft journalled therein with one end extending through the side wall of the casing, a second shaft journalled in said support extending parallel with said first shaft, said movable switch member carried at one end of the second shaft and the opposite end of the shaft being formed with a V shaped wedge member

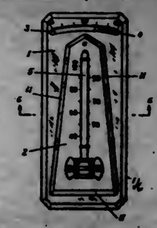
with the apex of the V extending toward the first shaft, the first shaft being formed with a cylinder extending radially from the shaft and having resiliently mounted therewith a plunger, the outer end of the plunger being wedge shaped, and coacting with the wedge shaped member of the second shaft to constitute motion transmitting connections between the shafts, and an operating manual secured to the outer end of the said first rock shaft.

1,922,697
PREPARED CALCIUM CHLORIDE AND METHOD OF MAKING SAME
Sheldon B. Heath, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan
Application November 4, 1929. Serial No. 404,698
6 Claims. (Cl. 23—90)

1. The method of preparing a partially dehydrated calcium chloride having a uniform composition corresponding to a definite hydrate thereof which comprises heating any hydrated form thereof higher than the monohydrate in a comminuted condition to a temperature at which water vapor is evolved therefrom but below the temperature of incipient fusion, while in contact with an aeriform current in which the partial pressure of water vapor is maintained above the vapor pressure of the next lower hydrated form thereof but below that of the hydrate being dried at the existing temperature, withdrawing a portion of the moist exit gases and reintroducing the same into said aeriform current in the drying step to supply at least a part of the water vapor therein.

6. The method of preparing an intermediate hydrated form of a salt capable of forming a series of crystalline hydrates which comprises heating any hydrated form of the salt higher than the lowest hydrated form thereof in a comminuted condition at a temperature whereat water vapor is evolved therefrom but below the temperature of incipient fusion, while in contact with an aeriform current in which the partial pressure of water vapor is maintained above the vapor pressure of the intermediate hydrate to be formed but below that of the next higher hydrate at the temperature in question, withdrawing a portion of the moist exit gases and reintroducing the same into said aeriform current in the drying step to supply at least a part of the water vapor therein.

1,923,698
SWITCH COVER
Karl Hunciker, Chicago, Ill., assignor to Ira E. McCabe, Chicago, Ill.
Application January 6, 1932. Serial No. 585,021
5 Claims. (Cl. 200—138)



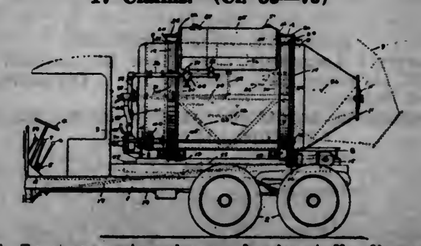
1. A cover for a thermostatic switch having a series of openings in the sides and bottom thereof for atmospheric circulation and a large opening in the front with a front plate corresponding in shape to the front opening mounted with its under surface in the plane of the outer surface of the front and with its edges spaced apart from the edges of the front opening forming an additional means for atmospheric circulation.

1,922,699
CONVEYER INSTALLATION
Chester S. Jennings and Lavent C. Allen, Syracuse, N. Y., assignors to The Lamson Company, Syracuse, N. Y., a Corporation of Massachusetts
Application March 23, 1929. Serial No. 349,358
6 Claims. (Cl. 198—203)



1. Apparatus of the class described comprising a main conveyer belt, an auxiliary conveyer belt beside a run of the main belt, means for deflecting articles from the main belt to the auxiliary belt, a series of article supporting rolls aligned with the auxiliary belt, a roller engaging a portion of the main belt remote from that portion thereof adjoining the auxiliary belt, and a drive element operatively driven by the roller, said last-named element being operatively connected to the auxiliary belt to drive the latter at a predetermined speed.

1,922,700
CONCRETE MIXER
Albert Knowles, San Francisco, Calif., assignor to Transit Mixers, Inc., San Francisco, Calif., a Corporation of Nevada
Application November 11, 1929
Serial No. 406,359
17 Claims. (Cl. 83—73)

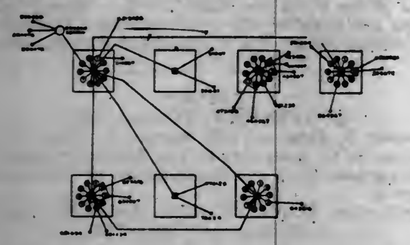


1. In a concrete mixer, a horizontally disposed rotatable closed end cylindrical drum adapted to contain the materials to be mixed, a fixed water pipe extending axially into the drum, a vertically arranged extension on said fixed pipe arranged to extend upward through the mass of and discharge water above the materials being mixed, a spider secured within said drum revolvable around and supporting said fixed pipe at a point remote from said closed end and means for forcing water through the pipe into the drum.

1,922,701
TELEPHONE SYSTEM
Herbert M. Friendly, Portland, Oreg.; Milton S. Friendly and Central Republic Bank and Trust Company executors of said Herbert M. Friendly, deceased
Application May 21, 1917. Serial No. 171,637
182 Claims. (Cl. 179—16)

1. A selector having a plurality of bank contact levels, a wiper set normally opposite one level.

and means for moving the wiper set directly into



the normal level or first directively opposite to and then into any other levels.

1,922,702
BAIT HOLDER
Nicholas A. Kristman, Menlo Park, Calif.
Application April 1, 1931. Serial No. 526,802
3 Claims. (Cl. 43—131)



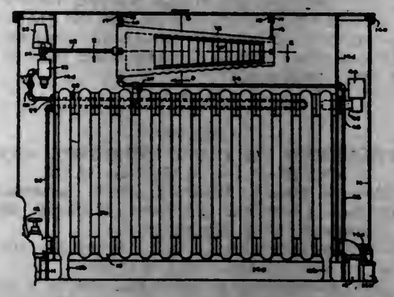
1. A bait holder comprising a dish-shaped container for the reception of bait, a downwardly flaring annular flange formed on the edge of the dish, said flange forming a support and base for the dish, a cover member for the dish, means normally securing the cover against removal, and a plurality of openings formed in the base flange to permit a free circulation of air to retain the container in a cool condition.

1,922,703
RAILWAY DRAFT RIGGING
Harvey J. Lounsbury, Glen Ellyn, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware
Application August 10, 1931. Serial No. 556,175
13 Claims. (Cl. 213—22)



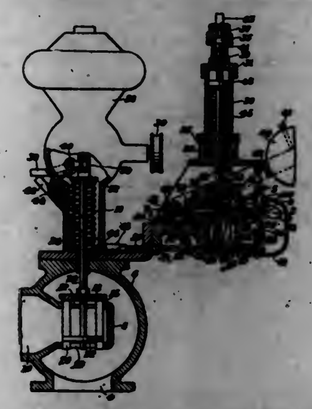
1. In a draft rigging for railway cars having greater compression in buff than in draft, the combination with a friction casing open at the rear end and having interior friction surfaces at said open end; of a stop key extending through the casing and held against movement in draft by engagement with fixed stop means on the car, said key having shouldered engagement with the casing to hold the same against outward movement in draft; friction means cooperating with the friction surfaces of the casing, said friction means including a spreading member adapted to receive the actuating force; spring resistance means opposing movement of said friction means inwardly of the casing; and means having shouldered engagement with said stop key for arresting movement of said wedge spreading member inwardly of the casing, said means being rigid with said wedge spreading member.

1,922,704
HUMIDIFYING UNIT WITH TUBE
Gottlieb R. Magney, Minneapolis, Minn.
Application February 18, 1932. Serial No. 593,794
16 Claims. (Cl. 257—138)



7. A humidifying device having in combination, a radiator, a casing enclosing said radiator and forming a chamber thereabove, said casing having an opening leading from said chamber, a second casing in said chamber extending longitudinally of said radiator having closed ends, and an opening along one side, spaced members extending across said latter opening, a liquid conduit extending through said chamber to said second casing, a nozzle connected to said conduit for projecting a fine spray or mist longitudinally of said second casing, said second casing having an opening spaced longitudinally thereof and of said radiator for air to pass thereinto, whereby air will rise from said radiator, pass into said second casing, commingle with said mist and pass out through the opening along the side of said second casing.

1,922,705
PRESSURE ACTUATED GOVERNOR TRIP
Raymond C. McAllister, Painted Post, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey
Application May 18, 1932. Serial No. 612,020
8 Claims. (Cl. 137—140)



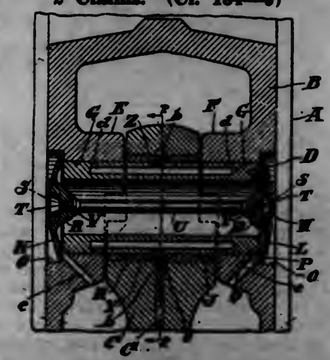
1. In a device of the character described, a valve, a speed responsive governor normally controlling the valve, means connected to the valve and normally locked in inoperative position to close the valve independently of the governor, and trip means responsive to pressure changes above and below a predetermined range to unlock the valve closing means.

1,922,706
WIRE STRETCHER
Herman P. Neptune, San Diego, Calif.
Application May 23, 1930. Serial No. 454,941
10 Claims. (Cl. 254—79)



1. A device of the class described, consisting of a fulcrum member having a thickened end and a reduced end forming a relatively long flat shoulder, said thickened end provided with corrugations around its entire outer surface and forming the fulcrum portion of said fulcrum member, and a lever pivotally mounted upon said reduced end, said lever having a symmetrical arcuate extremity extending in opposite directions from the longitudinal axis and facing said shoulder so as to form therewith a clamp when turned in either direction.

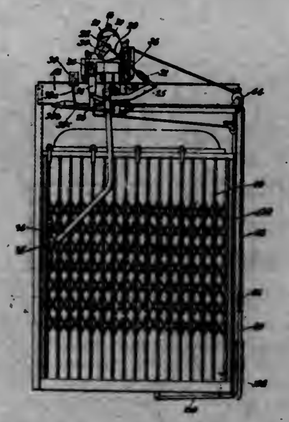
1,922,707
OILING DEVICE
Wallace K. Newcomb, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey
Application March 1, 1932. Serial No. 596,021
2 Claims. (Cl. 184—6)



1. An oiling device, comprising a hollow wrist pin having a plurality of longitudinally extending supply passages lying in different radial planes in the wall thereof and lateral supply and discharge ports for the passage and being spaced along the length of the wrist pin, and means for supplying oil to the supply passages.

1,922,708
ELECTRIC DOOR OPERATOR
Clifford Norton, South Orange, N. J., assignor, by mesne assignments, to Otis Elevator Company, a Corporation of New Jersey
Application March 7, 1929. Serial No. 345,138
17 Claims. (Cl. 187—52)

1. In combination, an elevator car; a door for permitting access thereto; spring means connected to said door urging said door to closed position; an electric motor having a field and an armature; operative connections from the armature of said motor to said door for effecting the opening of said door by said motor against the action of said spring means when the armature of said motor is rotated in one direction, and for effecting the rotation of said armature in the reverse direction by said spring means when said spring means is effective to close said door; a source of electrical energy; means for energizing the field of said electric motor from said source at least during the opening movement of said door and the latter part of the closing movement of said door; and means, effective during the opening movement of said door, for connecting the armature of said motor to said source

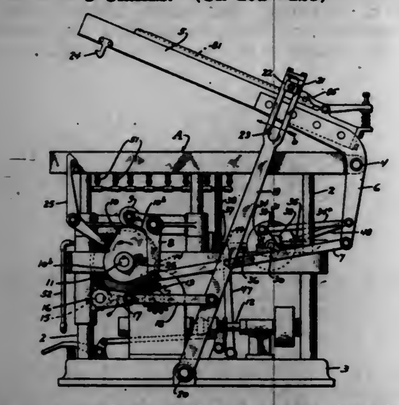


so as to cause said motor armature to rotate in the door opening direction and open said door, and effective, during closing movement of said door, to disconnect the armature of said motor from said source and to connect together the opposite terminals of said armature, during at least the latter portion of the door closing movement, so as to effect a dynamic brake of said electric motor and assist in retarding the closing movement of said door as said door nears its closed position.

1,922,709
PROCESS FOR MANUFACTURING NITRO-COMPOUNDS
James F. O'Brien, Seattle, Wash.
No Drawing. Application December 20, 1927
Serial No. 241,463
2 Claims. (Cl. 260—142)

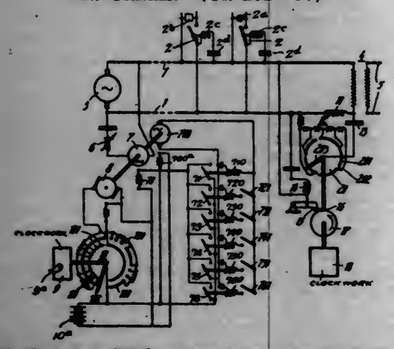
1. The process of manufacturing a nitro-compound which comprises distilling coal tar at temperatures ranging approximately from 95° to 115° centigrade to produce a light oil therefrom having an average specific gravity of approximately .862, raising the specific gravity of such light oil by reflux distillation to approximately .904, successively nitrating said light oil at a temperature not exceeding 20° Centigrade with acid solutions consisting of nitric acid, sulphuric acid and water, rapidly increasing the temperature of the oil to approximately 70° centigrade after each nitration step and maintaining such temperature in each instance for approximately one-half hour, cooling the treated oil following each nitration step to a temperature not exceeding 30° centigrade, separating the treated oil from the spent acids after each nitration, treating the nitrated oil after each nitration step with neutralizing caustic soda solutions, and as a final step washing for approximately one-half hour the completely nitrated oil with hot water having a temperature of substantially 65° centigrade.

1,922,710
STENCIL PRINTING MACHINE
Edward A. Owens, San Francisco, Calif., assignor to Selectasine System, Inc., of San Francisco, Calif., a Corporation of California
Application April 29, 1929. Serial No. 358,775
8 Claims. (Cl. 101—123)



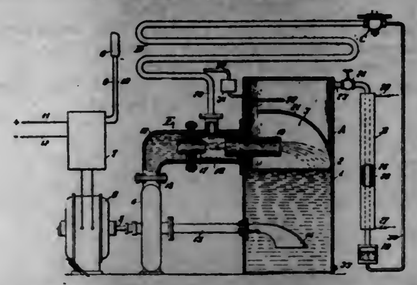
1. In a machine of the character described a table to receive and support material to be printed, a color transferring stencil adapted to be disposed above the material and slightly spaced therefrom, means for spreading color over the upper surface of the stencil, and a squeegee extending crosswise of the stencil and movable from end to end thereof, said squeegee applying sufficient pressure to transfer the color through the stencil to the material to be printed, and to depress the stencil surface immediately below the squeegee into engagement with the material whereby a gradually advancing line of contact is maintained between the stencil and the material to be printed during the transfer of color.

1,922,711
REMOTE CONTROLLING PLANT
Otto Ortner, Georg Münstereu, Wilhelm Gebhardt, Nuremberg, and Karl Keller, Berlin-Charlottenburg, Germany, assignors to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany
Application June 26, 1930, Serial No. 464,018, and in Germany July 5, 1929
12 Claims. (Cl. 171—97)



12. In a multi-frequency remote control system the combination of a transmission line, a generator connected to the line at the control transmission point for superposing within a given time period currents of a control frequency, selected out of a number of control frequencies, upon the line, means for controlling said generator to run during said time period through a cycle of different speeds for successively producing the several frequencies, an absorber for said superposed control currents, located at a line point beyond which the control currents are not utilized, a tuning device for said absorber, said absorber being normally tuned, between control cycles, to a preliminary control frequency produced by said generator, means for controlling said generator to produce and superpose upon the line currents of said preliminary frequency at the beginning of a control cycle, and a relay for said absorber tuned to said preliminary control frequency and adapted when responding to start the operation of said tuning device, and means for stopping said tuning device after the completion of a tuning cycle.

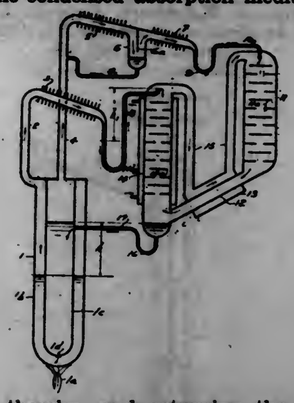
1,922,712
REFRIGERATING METHOD AND APPARATUS
Bo Folke Randel, San Diego, Calif.
Application August 22, 1930. Serial No. 477,038
9 Claims. (Cl. 62—115)



1. The method of refrigeration consisting in circulating a body of refrigerant from a compression and storage space through a condensing space and a refrigerating space, mechanically imparting motion to a body of the liquid refrigerant and utilizing the energy of this moving liquid to lower the pressure in the refrigerating space whereby the liquid refrigerant in this space is vaporized and also to return the vaporized refrigerant along with the moving liquid to the compression space, condensing the compressed refrigerant in said condensing space and returning the resulting liquid to the refrigerating space.

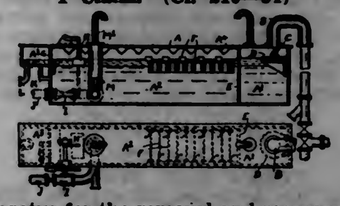
1,922,713
MEANS AND METHOD OF REFRIGERATION
Bo Folke Randel, San Diego, Calif.
Application September 14, 1931
Serial No. 562,665
20 Claims. (Cl. 62—119.5)

1. That process of treating a solution of a refrigerant in a liquid absorption medium of higher boiling point than the refrigerant to produce refrigeration which comprises expelling the refrigerant from the solution by the application of heat, removing the remaining absorption medium from the point of heat application, completely vaporizing the liquid absorption medium by further application of heat, condensing the vaporized absorption medium out of communication with the refrigerant, condensing the refrigerant, evaporating the liquid refrigerant in the presence of an inert fluid and in heat exchange relation with the objective of refrigeration, returning the evaporated refrigerant to the presence of the condensed absorption medium to be



absorbed thereby, and returning the solution thus formed to the place of heat application.

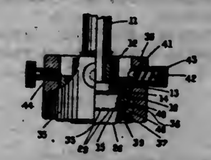
1,922,714
APPARATUS FOR THE REMOVAL AND RECOVERY OF OILS AND GREASE FROM OIL LADEN WATER AND THE LIKE
Alfred Edward Ridley, Llanelly, England
Application March 11, 1931, Serial No. 521,835, and in Great Britain July 16, 1930
1 Claim. (Cl. 210—54)



Apparatus for the removal and recovery of oils and grease from oil-laden water comprising a main tank, a partition dividing said main tank into two sections, an inlet pipe for conveying polluted water into one section, a cone beneath the inlet for receiving the polluted water, a tray beneath said cone, said cone and tray preventing the splashing of the entering polluted water, perforations in said partition, the surface water in the receiving section flowing through said perforations into the next section of the main tank, a discharge pipe for clean water, an air snore pipe to said discharge pipe, a valve in said discharge pipe, a float controlling said valve, an oil tank, a wall dividing said oil tank from said main tank, said wall having perforations, the oil lying on the water in said main tank passing through said perforations into said oil tank, an oil discharge pipe connected with said oil tank, and a pipe communicating with the main and oil tanks for the return of extraneous water in the oil tank to the main tank.

1,922,715
MANUFACTURE OF ARTIFICIAL FILAMENTS, THREADS, AND THE LIKE
Reginald Henry John Riley, Spondon, near Derby, England, assignor to Celanese Corporation of America, a Corporation of Delaware
Application August 26, 1930, Serial No. 477,236, and in Great Britain June 5, 1930
3 Claims. (Cl. 18—8)

1. A device for use in the manufacture of artificial filaments comprising, in combination with an existing jet and a supporting member for carrying said jet, an auxiliary jet and means for attaching said auxiliary jet to the existing jet, said means including a socket-like member adapted to support said auxiliary jet and shaped



in conformity with said supporting member so as to be slidingly engageable therewith, and locking means carried by the socket-like member for holding the said members, when interengaged, against disengagement.

1,922,716
METHOD OF EXPANDING A FLATTENED PAPER ROLL
Richard Andrew Robinett, Norfolk, Va.
Application August 31, 1932. Serial No. 631,260
1 Claim. (Cl. 242—1)



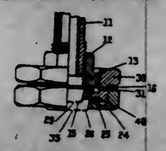
The process of expanding flattened rolls of paper, made of multiple layers, by the use of a series of expanding mandrels, while at the same time the outside of the roll is hammered to make the layers slip one upon another.

1,922,717
MECHANISM FOR FEEDING FRAGILE OBJECTS TO MACHINES
Hermanus Mattheus Smitt, Bilthoven, Netherlands
Application February 6, 1931, Serial No. 514,022, and in the Netherlands February 19, 1930
6 Claims. (Cl. 198—25)
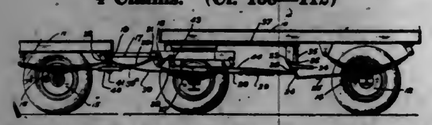


1. A feeding device of the character described, for feeding a series of separate fragile objects to a machine, including the combination, with means for presenting a plurality of said objects in successive transverse rows to the device, of a feeding wheel adapted to engage successive rows of said objects, a stationary lifting plate disposed adjacent to said feeding wheel in the path of said objects in order to raise single transverse rows thereof in succession and direct the objects forward, a conveyor receiving said objects from said lifting plate and merging transverse rows thereof into a single line of objects directed in the feeding direction and feeding said single line forward, and means for receiving said line of objects from said conveyor and spacing the individual objects apart while feeding the same forward.

1,922,718
MANUFACTURE OF ARTIFICIAL FILAMENTS, THREADS, AND THE LIKE
Allan Hinds Tidmus and Frank Alfred Reeson, Spondon, near Derby, England, assignors to Celanese Corporation of America, a Corporation of Delaware
Application August 19, 1930, Serial No. 476,304, and in Great Britain September 5, 1929
8 Claims. (Cl. 18—8)



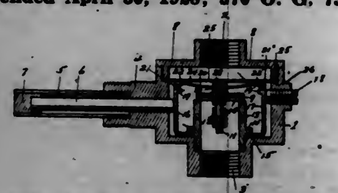
1. Apparatus for the manufacture of artificial filaments, comprising two communicating spaced spinning jets in series and means for securing said jets in series on a single source of supply of spinning solution, said securing means being adapted to facilitate the removal or replacement of the second of said jets without interfering with the attachment of the first.

1,922,719
TRAILER BRAKE OPERATING MECHANISM
John J. Townsend, Hayward, Calif.
Application November 23, 1931
Serial No. 576,629
4 Claims. (Cl. 188—112)



1. In combination, a trailer, a truck for drawing the same, a connection between the truck and trailer, a braking apparatus for said trailer and truck including brakes on the truck and trailer, and means for automatically operating said braking apparatus and applying said brakes in the event said connection should become ineffective while the truck is drawing the trailer.

1,922,720
THERMOSTAT
Sidney P. Vaughn, of the United States Navy, Ackerman, Miss.
Application January 31, 1931. Serial No. 512,603
17 Claims. (Cl. 236—48)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



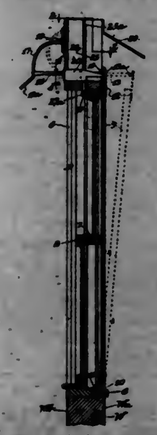
1. A snap acting device comprising a dished spring plate having two or more of its opposite edges bent or beveled toward the normally convex side of the plate, and means for exerting a pressure on opposite edges acting toward the center of the plate to set up stresses in the plate which causes the dished portion of the plate to attain a reverse form with a snap action, said plate having the property of regaining its normal form when said pressure is removed.

1,922,721
PUMP
Henry A. Weichhart, Alameda, Calif.
Application December 10, 1930
Serial No. 501,318
11 Claims. (Cl. 103—153)



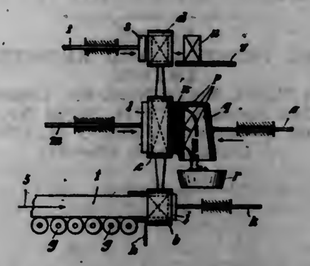
10. In a pump of the character described, a cylinder having discharge ports formed therein, a sleeve valve surrounding the cylinder to control fluid passage through said ports, a discharge tube surrounding the cylinder and sleeve valve, and a sleeve disposed between the sleeve valve and discharge tube and having drain ports formed therein, said sleeve valve closing the drain ports when the discharge ports are open and closing the discharge ports when the drain ports are open.

1,922,722
STORM SASH OPERATOR
Per Otto Anderson, Minneapolis, Minn.
Application January 30, 1932. Serial No. 589,850
10 Claims. (Cl. 20—55)



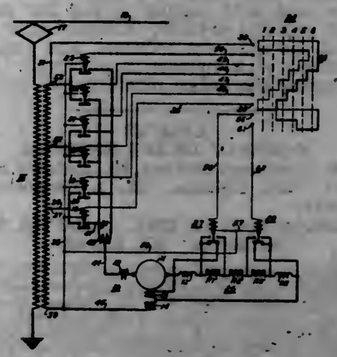
1. The combination with a window sash frame and a swinging storm sash, of a storm sash operator comprising a bar pivotally connected to the swinging edge of the storm sash and extending inwardly through the sash frame, a lever pivoted to the inner end of said bar and a guide mounted at the inner side of the sash frame within which said lever is pivotally and slidably mounted.

1,922,723
BUTTER AND LIKE DIVIDER
Johannes Benz, Duesseldorf, Germany
Application November 4, 1931, Serial No. 572,961, and in Germany November 6, 1930
5 Claims. (Cl. 31—1)



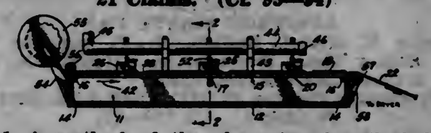
1. A method of dividing butter and the like into uniform portions, consisting in forming the material into a continuous freely supported stream of uniform cross-section, cutting off uniform portions from said stream, pressing said portions from two opposite directions into uniform shape, and rejecting in such pressing all material in excess of a given quantity.

1,922,724
MOTOR CONTROL SYSTEM
Stuart H. Cowin, Pittsburgh, and Lloyd J. Hibbard, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania
Application September 15, 1931
Serial No. 562,878
8 Claims. (Cl. 171—228)



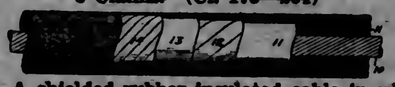
1. In a control system for controlling commutator motors, in combination, an interpole winding for the motor, a shunt connected in parallel-circuit relation to the interpole winding, said shunt comprising a plurality of resistors and reactors connected in series-circuit relation, and switching means for increasing the reactance and decreasing the resistance of said shunt as the speed of the motor is increased, said switching means being so disposed as to prevent an open circuit in the shunt during the switching operations.

1,922,725
FILM COLORING MACHINE AND METHOD OF COLORING FILM
William T. Crespinel and Charles W. Prynne, Los Angeles, Calif., assignors, by mesne assignments, to Hughes Industries Co. Ltd., a Corporation of Delaware
Application March 13, 1931. Serial No. 522,380
21 Claims. (Cl. 95—94)



1. A method of the character described for treating motion picture film having photographic images on both sides thereof, comprising: supporting the film in a substantially horizontal position; and spreading a layer of solution over the upper face of said film, while preventing said solution from contacting the images on the lower face of said film.

1,922,726
SHIELDED RUBBER INSULATED CABLE
William A. Del Mar, Greenwich, Conn., assignor to Habirshaw Cable and Wire Corporation, New York, N. Y., a Corporation of New York
Application August 19, 1932. Serial No. 629,457
8 Claims. (Cl. 173—264)



1. A shielded rubber insulated cable in which ionizable spaces between the rubber and shield are obviated by the use of an adhesive tape located between the rubber insulation and the shield and in contact with the rubber, the outer face of said adhesive tape being covered with metal.

1,922,727
PRODUCTION OF PATTERN EFFECTS UPON TEXTILE FABRICS OR OTHER MATERIALS
George Holland Ellis, Spondon, near Derby, England, assignor to Celanese Corporation of America, a Corporation of Delaware
No Drawing. Application September 10, 1929, Serial No. 391,692, and in Great Britain September 29, 1928
8 Claims. (Cl. 8—5)

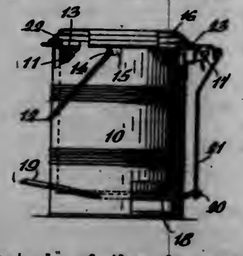
1. Process for the production of discharge effects on materials, comprising applying a diazotizable amino compound to a material comprising an organic derivative of cellulose, applying to the material locally an oxidizing discharge and treating the amino compound so that it is rendered incapable of diazotization in the selected areas, and finally diazotizing and developing.

1,922,728
PRODUCTION OF PATTERN EFFECTS UPON TEXTILE FABRICS OR OTHER MATERIALS
George Holland Ellis and William Bertram Miller, Spondon, near Derby, England, assignors to Celanese Corporation of America, a Corporation of Delaware
No Drawing. Application October 7, 1929, Serial No. 398,089, and in Great Britain November 3, 1928
13 Claims. (Cl. 8—5)

1. In a process for forming azo coloring matters on textile materials by diazotizing on the

materials compounds containing a diazotizable amino grouping and developing, the production of discharge resist effects by rendering the amino body, before diazotization and development, incapable of diazotization in selected areas with the aid of a reduction discharge.

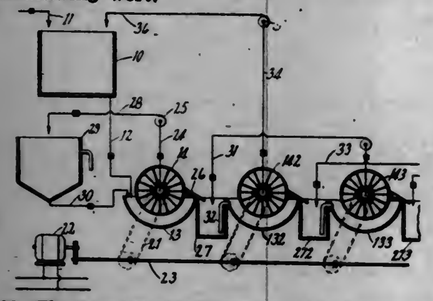
1,922,729
SANITARY WASTE CAN
John F. Geibel, Buffalo, N. Y., assignor to Master Metal Products, Inc., Buffalo, N. Y., a Corporation of New York
Application October 20, 1931. Serial No. 569,881
3 Claims. (Cl. 220—17)



1. A receptacle of the character described, comprising inner and outer can-bodies nested one within the other, the inner can-body being removable from the outer can-body and terminating at its upper end below the corresponding end of the outer can-body in the assembled position thereof, a handle connected to said inner can-body, and an element applied to and projecting inwardly from the outer can-body in overhanging relation to the upper end of said inner can-body for preventing relative vertical displacement of said can-bodies, whereby the latter may be carried as a unit by the handle of the inner can-body.

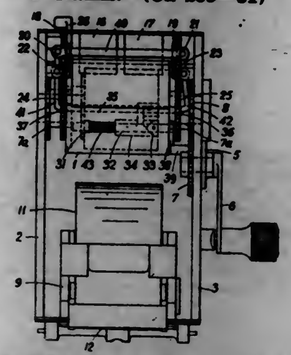
1,922,730
PROCESS OF PREPARING A WORT
Herbert C. Gore, Scarsdale, and Charles N. Frey, New York, N. Y., assignors to Standard Brands Incorporated, Dover, Del., a Corporation of Delaware
Application March 11, 1930. Serial No. 434,975
14 Claims. (Cl. 195—32)

1. The process of obtaining a wort separated from draff which comprises preparing a mash of relatively finely ground cereal material, dividing the draff into relatively thin layers, and applying suction quickly to compact the same and to entrap slimy matter in distributed condition through coarser particles of the mash while withdrawing wort.



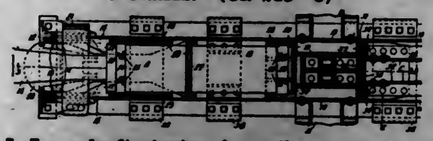
10. The process of removing liquids from solids and slimy insoluble matter suspended therein comprising removing relatively thin layers of solids from the liquids by passing a succession of sheet-filter surfaces through said liquid, applying suction successively to compact said layers into cakes to entrap slimy matter in distributed condition through coarser particles of the mash while withdrawing the liquid, mixing said cakes with a liquid and repeating the separation.

1,922,731
TICKET PRINTING AND REGISTERING DEVICE
Curt Hänel, Berlin-Neukolln, Germany
Application January 7, 1931, Serial No. 507,283, and in Germany January 14, 1930
5 Claims. (Cl. 235—31)



1. A device for printing and registering tickets, comprising a printing cylinder, means for rotating said cylinder, a rotatable type wheel in said cylinder provided with a plurality of sets of types, means for rotatably setting the type wheel in the cylinder to bring any desired set of types into operative position, a counter for each set of types, gears for transmitting motion from the cylinder to different counters, a slidable coupling member, connection between said coupling member and said setting means for connecting the printing cylinder automatically to the gears of the different counters, and means for maintaining each counter in gear with the cylinder during the entire revolution of the latter.

1,922,732
RAILWAY DRAFT RIGGING
Stacy B. Haseltine, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware
Application April 14, 1928. Serial No. 269,958
6 Claims. (Cl. 213—8)



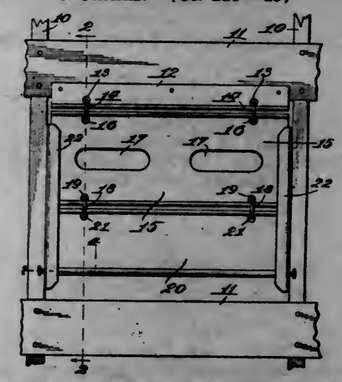
5. In a draft rigging for railway cars having spaced fixed draft sills and fixed bolsters at opposite ends of the car, the combination with shock absorbing means at each end of the car outwardly of said bolsters; of fixed outer stop means on the draft sills cooperating with said shock absorbing means; and rear stop column means through which the entire buffing force of each shock absorbing means is transmitted, said column means being buttressed against movement in buff entirely by the bolster at the end of the car opposite to that at which the buffing force is applied.

1,922,733
REENFORCEMENT FOR A WATER BUCKET MOP WRINGING DEVICE
Charles Hufford, Detroit, Mich.
Application November 7, 1931. Serial No. 573,658
1 Claim. (Cl. 15—262)



In combination with a water bucket mop wringing device, having a pair of slotted bars secured within the bucket and a stationary and movable roller operating within the said slotted bars, a pair of vertically disposed reenforcing bars, one of the said bars secured adjacent each of the exterior sides of the said bucket, the upper end of the said bars forming a double shoulder which is adapted to engage the handle clip of the bucket and permanently retain the said end of the bar to the same; the said bars constituting means whereby the mechanism of the aforesaid device is pivotally supported and reenforced by the same, and the lower end of the said bars being secured to the similar portion of the said bucket.

1,922,734
TRAP NEST FRONT
John Imschweiler, Ingleweod, Calif.
Application September 2, 1931. Serial No. 560,748
3 Claims. (Cl. 119—49)



1. In a trap nest front, a frame comprising an upper member, a lower member and a pair of upright side members, a rail secured to the lower portion of said upper frame member, an upper member, a lower member, hinges connecting the upper portion of the upper member with said rail, hinges connecting the lower portion of said upper member with the upper portion of said lower member, vertically disposed members secured to the upright side members of the frame at the ends of said trap nest front members, said vertically disposed members provided with slots, guiding members projecting from the lower portions of the ends of the lower trap nest front member and projecting through said slots, heads on the outer ends of said guiding members and both ends of the slots in said vertically disposed members being enlarged for the accommodation of said heads when the parts of the trap nest front are assembed or taken apart.

1,922,735
DEVICE FOR PRACTICING GOLF
Charles H. Johnson, Sacramento, Calif., assignor of one-half to Arthur E. Miller, Sacramento, Calif.
Application May 20, 1929. Serial No. 364,393
2 Claims. (Cl. 273—35)



1. A device for practicing golf which consists of a thin sheet of bendable material having two disc shaped portions each substantially the size of a golf ball, said disc shaped portions being joined at their edges whereby they may be bent to a position at right angles to each other in which position either disc will serve as a base to support the other in an upright position for a target to be struck by a club.

1,922,736
RECORD SHEET
Clarence L. Johnston, Hillsborough, and Max M. Cohn, Los Gatos, Calif.
Application March 22, 1932. Serial No. 600,458
9 Claims. (Cl. 129—16.7)

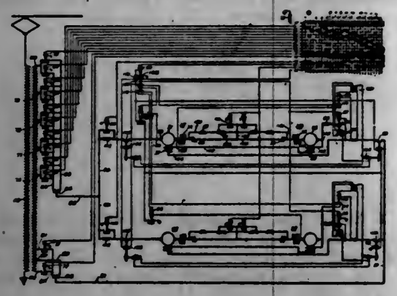


8. A record sheet comprising a front and a back sheet, a hinged connection between the lower edges of said sheets, a portion of each sheet and a portion of the hinge connecting the sheets being cut away to form an actuating opening, and a spreader member attached to one of the sheets and projecting into said opening for actuation.

1,922,737
SINGLE-PHASE SERIES RAILWAY MOTOR AND CONTROL SYSTEM THEREFOR
Herbert G. Jungk, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application November 19, 1930
Serial No. 496,800
26 Claims. (Cl. 172—276)

1. A single-phase series commutator motor comprising a field member and an armature member having an air gap therebetween, and means

for producing a starting flux less than 70/f megalines per pole, where f is the applied frequency in cycles per second, said air gap being greater than .12 inch.

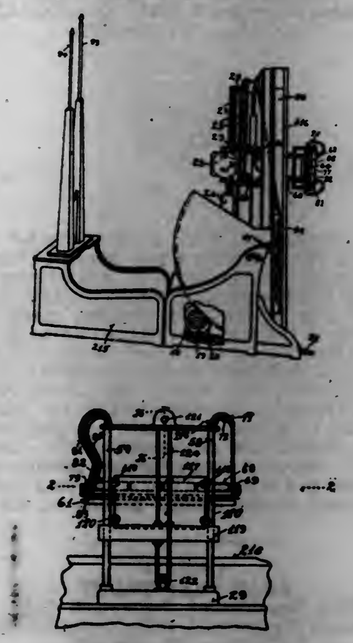


12. A twin-motor unit comprising two single-phase series commutator motors having the hereinafter mentioned armatures and various field windings permanently connected together in the following order: the armature of the first motor, the compensating winding of the first motor, the interpole winding of the first motor, the interpole winding of the second motor, the compensating winding of the second motor, the armature of the second motor and finally the mian field windings of the two motors, in combination with an interpole shunt across each of the two interpole windings, a main field shunt across the two main field windings, and means for controlling the shunts.

15. In combination, a high-reactance main transformer, tap-changing means associated therewith, a plurality of single-phase, low-flux, large-air-gap series motors energized therefrom, by "low-flux" meaning less than approximately 80/f megalines per pole, where f is the applied frequency in cycles per second, and by "large-air-gap" meaning greater than .12 inch, flexible driving connections between said motors and the driving shafts of the vehicle, means for at times reducing the effective main-field turns during the flow of starting current in the motors, and a master controller for controlling said tap-changing means.

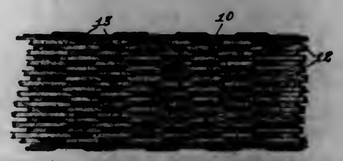
1,922,738
RADIOGRAPHIC APPARATUS
John Robert Kelley, Covington, Ky., assignor to The Kelley-Koett Manufacturing Company, Covington, Ky., a Corporation of Kentucky
Application October 7, 1929. Serial No. 398,036
1 Claim. (Cl. 250—34)

Radiographic apparatus comprising a base, a patient supporting member adjustable to different positions of angularity relative to said base, a main carriage adjustable longitudinally of said supporting member, means to rigidly lock said main carriage to its adjusted positions relative to said supporting member, an X-ray generator mounted upon said main carriage at one side of said supporting member, a fluoroscopic screen supporting carriage mounted adjustably upon said main carriage, a counterweight adjustably mounted upon said main carriage, a pair of sprocket wheels and sprocket chains operatively connecting said screen carriage and said counterweight to cause said screen carriage and said counterweight to move in opposite directions upon said main carriage to counterbalance said screen carriage irrespective of various angular positions of said screen carriage, a fluoroscopic screen adjustably mounted upon said screen carriage and located upon the opposite side of said



patient supporting member from said X-ray generator.

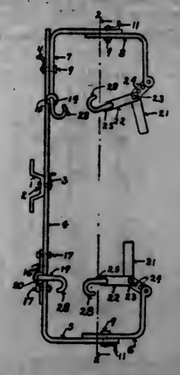
1,922,739
COLORED TINSEL FABRIC
William H. Lees, Lowell, Mass
Application May 31, 1929. Serial No. 367,539
7 Claims. (Cl. 41—26)



1. A colored tinsel fabric comprising a woven fabric body portion embodying tinsel strands provided upon one surface with a thin transparent flexible color layer through which light may be reflected from the tinsel strands.

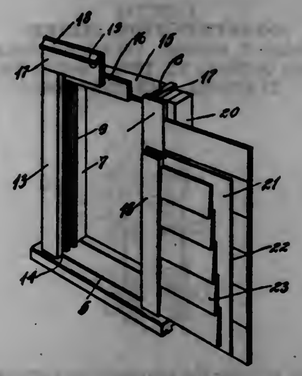
1,922,740
TIRE SPREADER
Joseph Matchey, Whitehall, Wis.
Application May 7, 1932. Serial No. 609,877
9 Claims. (Cl. 154—9)

7. In combination in a tire spreader, a frame, means pivotally supporting the frame, means for clamping the frame to its support, means on said frame for engaging one side of a tire, means on said frame for engaging the opposite side of a tire, and means adapted to be retained in holding position by the tension of the tire for moving and



holding said engaging means apart to spread the tire.

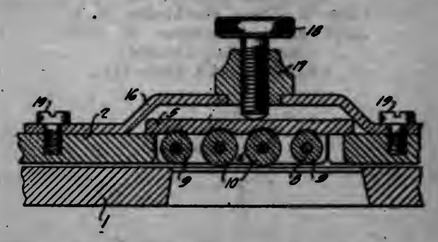
1,922,741
WINDOW FRAME
John M. Miller, Bay City, Mich., assignor to Bradley Miller & Company, Bay City, Mich., a Corporation of Michigan
Application December 23, 1930
Serial No. 504,250
1 Claim. (Cl. 20—11)



A window frame comprising a sill, head, and side jamb, a drip cap, spaced apart transversely disposed open slots provided in said sill and extending to a point directly adjacent the front shoulder of said sill, the jambs having their lower ends dadoed to fit and be received in said slots and form a lock joint therewith, and a bead formed on the lower face of the drip cap and projecting downwardly beyond the exposed face thereof.

1,922,742
CINEMATOGRAPHIC APPARATUS
George A. Mitchell, Palms, Calif., assignor to Mitchell Camera Corporation, West Hollywood, Calif., a Corporation of Delaware
Application June 16, 1931. Serial No. 544,788
3 Claims. (Cl. 88—17)

3. In combination with motion picture apparatus having an aperture, means for holding the four marginal portions of a film picture area in said aperture substantially in the plane thereof, and crowned roller means for slightly bowing said area of the film in two dimensions, said roller

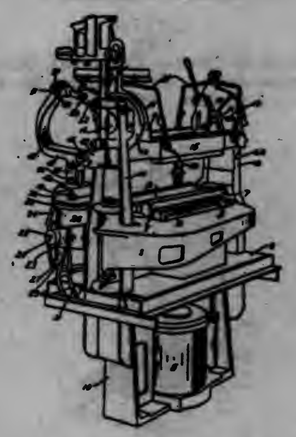


means being behind the film to bow said area toward the aperture.

1,922,743
SYNTHETIC RESIN AND PROCESS OF MAKING
Charles G. Moore and Edwin H. Drake, Lakewood, Ohio, assignors to The Glidden Company, Cleveland, Ohio, a Corporation of Ohio
No Drawing. Application August 1, 1931
Serial No. 554,595
6 Claims. (Cl. 260—8)

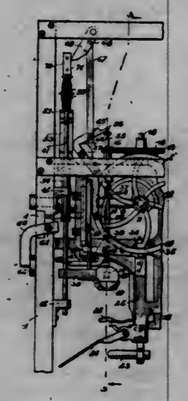
5. A process of making synthetic resin which comprises reaction between rubber-seed oil, phthalic anhydride, a polyhydric alcohol, and a fatty acid.

1,922,744
ROLL-OVER MACHINE
Earl F. Oyster, Cleveland Heights, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio
Application November 4, 1929. Serial No. 404,845
11 Claims. (Cl. 22—33)



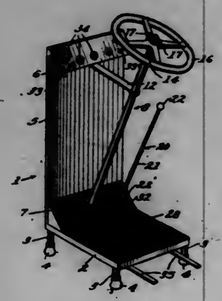
1. In a device of the class described, a frame including fixed standards, aligned horizontal pivots fixed on said standards, a table supported by bearings on said pivots, means associated with said table for holding a mold thereon with said pivots in prolongation of the mold ends, a cylinder mounted on said frame, a piston in said cylinder and adapted to be reciprocated therein, and means connecting said piston and said table whereby a single stroke of said piston in one direction causes oscillation of said table 180° about its axis.

1,922,745
FEEDING MECHANISM FOR FRUIT PARING MACHINES
John W. Pease, Rochester, N. Y.
Application December 26, 1929
Serial No. 416,466
4 Claims. (Cl. 146—51)



1. In a paring machine, the combination with a rotary fork and a feeding device embodying a non-yielding fruit holder adapted to move toward and from the fork and to impale a fruit thereon, of an actuator for the feeding device, a spring through which the actuator imparts impaling movement thereto, a positive stop for the feeding device and fruit holder, and a gauge adapted to be actuated by the fruit and controlling the stop.

1,922,746
TOY
Lydia M. Reeder, Columbus, Ohio
Application June 7, 1932. Serial No. 615,877
2 Claims. (Cl. 46—37)



1. In a toy of the character described, comprising a base simulating the floor board of an automobile, an upright support attached to the forward end of said base and carrying a miniature instrument panel at its upper end, a foot board between said support and floor board, a steering apparatus including a tubular column having its lower end attached to said foot board, a rod adjustably positioned for longitudinal movement within the upper end of said column, and a wheel rotatably mounted on the upper end of said rod.

1,922,747
CONSTRUCTION SHORE
Ralph R. Roemer, Cleveland, Ohio
Application January 25, 1929. Serial No. 335,048
37 Claims. (Cl. 254—106)



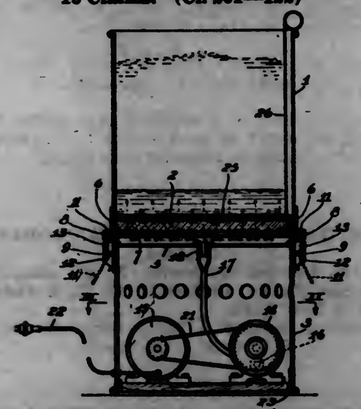
1. In an adjustable construction shore, a pair of longitudinally telescopic shore members one of which comprises a single strut element and the other of which comprises a pair of strut elements spaced apart, and a clutch device comprising two canting plates positioned between the two strut elements, adjacent to one end thereof, one of which is normally uncanted and surrounds the single strut element, and the other of which is normally canted and surrounds the single strut element and is rotatable about the axis of the shore with respect to both shore members.

1,922,748
CONSTRUCTION SHORE
Ralph R. Roemer, Cleveland, Ohio
Application January 25, 1929. Serial No. 335,049
27 Claims. (Cl. 254—106)



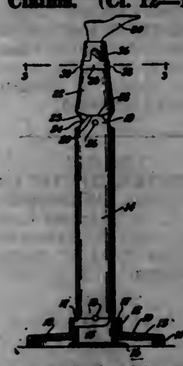
1. In an adjustable construction shore, a pair of longitudinally telescopic shore members, one member comprising a single strut element adapted to stand upon the ground and the other comprising a pair of strut elements adapted to be telescopically moved relatively to the single strut element, a clutch device comprising two canting plates between the two strut elements and adjacent to one end thereof, each of which embraces the single strut element, one of the canting plates being supported in a normally uncanted position and movable to a canted position to grip the single strut element and thereupon serve as a re-action base upon which force may be applied to raise the pair of strut elements to adjustably lengthen the shore, and the other of the canting plates being supported in a normally canted position and gripping the single strut element and serving as a base upon which the load on the pair of strut elements may be transferred to the single strut element, the normally canted plate having a rotational axis on the pair of strut elements on which it may be swung to uncant it.

1,922,749
CREAM WHIPPING APPARATUS
Lee Roush, Beaver, Pa., assignor, by mesne assignments, to The Hobart Manufacturing Company, Troy, Ohio, a Corporation of Ohio
Application May 5, 1931. Serial No. 535,161
13 Claims. (Cl. 261—122)



1. A device for whipping cream comprising a container having a porous stone bottom of relatively fine porosity, a support for said container, a pressure chamber in said container below said stone bottom, and means for supplying air under pressure to said pressure chamber.

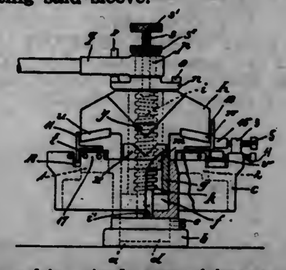
1,922,750
SHOE JACK
Dionisie I. Salcaian, Canton, Ohio
Application May 3, 1932. Serial No. 606,893
7 Claims. (Cl. 12—123)



1. A shoe jack and the like including a base, an upright supporting post rotatably mounted in the base, means for detachably securing said supporting post in a plurality of axial positions relative to the base, a shoe form mounting member pivotally mounted in the supporting post, and means for selectively maintaining the mounting member in an upright or in oppositely inclined positions.

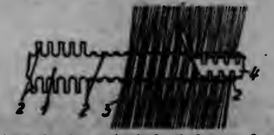
1,922,751
MACHINE TOOL
Johann Emil Thiermann, Stuttgart, Germany
Application May 16, 1931, Serial No. 537,961, and in Germany May 22, 1930
12 Claims. (Cl. 29—34)

1. A machine tool comprising a base, a stationary member mounted to turn in said base, and a movable member mounted to reciprocate with respect to said stationary member, cooperating tools and fixtures on said members, a threaded spindle arranged in the axis of said pivot, a threaded sleeve on said spindle which is mounted to rotate in, but held against axial displacement with respect to said movable member, and means for rotating said sleeve.



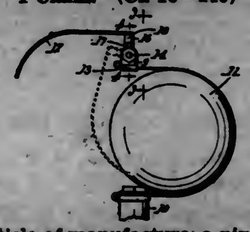
8. A machine tool, comprising a stationary member and a movable member, a curved bottom shearing blade on one of said members, a curved top shearing blade on the other member which is adapted to cooperate with said first-mentioned shearing blade, bar-guiding means combined with said blades, adjustable blank-holding means on said guiding means, blank-guiding projections on said holding means, and means for imparting relative movement to said members.

1,922,752
BRUSH
Karl Vogler, Pforzheim, Germany, assignor to the firm of Württ. Bürsten-u. Pinsel-Fabrik Kullen & Co., Reutlingen, Germany
Application August 27, 1932, Serial No. 630,694, and in Germany September 7, 1931
6 Claims. (Cl. 15—182)



1. In a brush, two metal-strips, a layer of bristles placed obliquely to and clamped between the strips, prongs on at least one of the strips bent over the other strip and dividing the layer of bristles into tufts projecting at an inclination to the length of the strips.

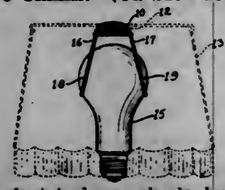
1,922,753
HINGE
Otis C. White, Worcester, Mass.
Application October 19, 1931. Serial No. 569,823
1 Claim. (Cl. 16—140)



As an article of manufacture, a pivot construction comprising a stationary rod, a member adapted to turn on the rod having a receptacle integrally formed at the end thereof in which

the stationary rod is located and a spring extending along the rod in said receptacle having a plurality of alternate projections in two directions, the projections extending in one direction bearing on the stationary rod and those extending in the opposite direction bearing on the said member.

1,922,754
LAMP SHADE BRACKET
Lauritz W. Andersen, Waterbury, Conn.
Application March 30, 1932. Serial No. 601,962
6 Claims. (Cl. 240—138)



1. In an electric lamp shade bracket, a cup-shaped screw shell fitting within the screw socket of a bridge lamp shade, a pair of depending split-wire clips for snap engagement upon an electric light bulb, and means for rigidly securing said clips to said shell.

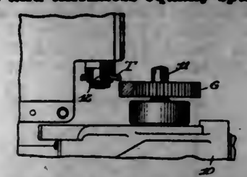
1,922,755
KEY CASE
Warner R. Buxton, Longmeadow, Mass., assignor to Buxton, Incorporated, Springfield, Mass., a Corporation of Massachusetts
Application October 8, 1930. Serial No. 487,276
8 Claims. (Cl. 150—40)



8. The combination in a key case, of a support for the key holders having a plate-like part secured to the key case and a hollow cylindrical portion, said portion having transverse slots with an enlargement at one point in each, key holders one for each slot each having a head of a size to pass freely through the enlargement in its slot but not through the slot itself and a shank to swing freely in the slot, a member separate from said plate movably mounted within said cylindrical portion and bodily shiftable relatively thereto and independently of the key holders from one position to another to prevent or permit passage, respectively, of the heads of the key holders through said enlargements, and an actuating part connected to said member and extending outside said cylindrical portion to enable said member to be manually shifted.

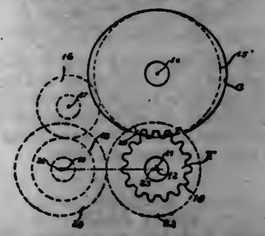
1,922,756
METHOD OF AND MACHINE FOR PRODUCING GEARS
Allan H. Candee, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York
Application December 20, 1929
Serial No. 415,422
9 Claims. (Cl. 90—9)

1. The method of generating an irregular gear which consists in selecting a gear-shaped cutter operable to cut on movement in a substantially axial direction and having cutting teeth of uniform shape and thickness equally spaced about a



geometric center and rotating said cutter about an axis eccentric of said center in engagement with a continuously rotating gear blank.

1,922,757
METHOD OF AND MEANS FOR PRODUCING GEARS
Allan H. Candee, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York
Application October 6, 1931. Serial No. 567,239
6 Claims. (Cl. 90—9)



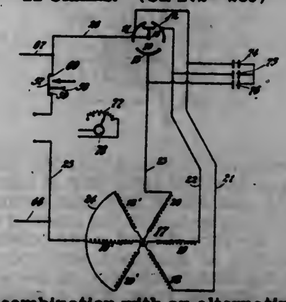
1. The method of generating a non-circular gear which comprises imparting a reciprocatory movement to a gear-shaped cutter while simultaneously rotating the cutter and blank together on fixed axes and at a varying velocity ratio, the cutter having teeth of uniform size and shape uniformly spaced about a common center eccentric of its axis of rotation.

1,922,758
MICROMETER DEPTH GAUGE
Knute Christopherson, Minneapolis, Minn., assignor to The L. S. Starrett Company, Athol, Mass., a Corporation of Massachusetts
Application October 8, 1928. Serial No. 311,216
10 Claims. (Cl. 33—170)



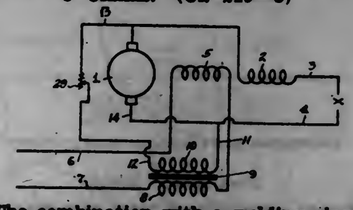
1. In a depth gauge, a base, a measuring rod having oppositely flattened sides, a cupped washer in said base having a perforation therein corresponding in shape to the cross section of the rod and through which perforation said rod extends.

1,922,759
REMOTE CONTROL SYSTEM
Arthur P. Davis, New York, N. Y., assignor to Bludworth, Inc., New York, N. Y., a Corporation of New York
Application July 11, 1927. Serial No. 204,919
11 Claims. (Cl. 172—239)



5. The combination with an alternating current step-by-step motor comprising a plurality of pairs of poles arranged to be energized in succession by alternating current and an unwound polar armature, of inertia means, frictionally engaging the armature to damp oscillations thereof.

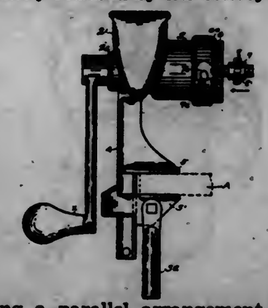
1,922,760
MECHANISM FOR ELECTRIC WELDING AND THE LIKE
Erwin E. Dreese, Worthington, Ohio, assignor to The Lincoln Electric Company, Cleveland, Ohio, a Corporation of Ohio
Application April 17, 1930. Serial No. 444,914
5 Claims. (Cl. 219—8)



4. The combination with a welding circuit, of a welding current generator having a field winding in series with the welding circuit, an auxiliary field winding, a reactor in series with said last named winding, a core for said reactor, and a demagnetizing winding on said core.

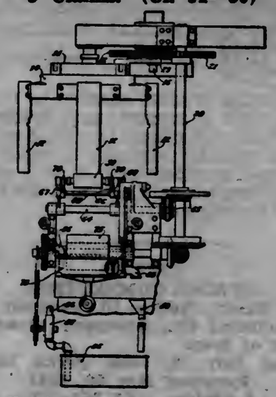
1,922,761
FOOD CHOPPING MACHINE
Bernard Dwofsky, Syracuse, N. Y., assignor of two-thirds to Benjamin E. Herten and Donovan W. Herten, Syracuse, N. Y.
Application May 19, 1931. Serial No. 538,497
6 Claims. (Cl. 146—139)

1. A meat chopper comprising a hollow casing having an expanded bore near its discharge end being formed with cutting spurs, a worm conveyor rotatable in said casing having an enlargement corresponding to said expanded bore, said conveyor having radial spurs disposed in shearing relation to the spurs of the casing, and having spiral cutting blades between the spurs and said discharge end, said conveyor adjacent said discharge end being formed with discharge openings and having a plurality of flutes on its end face, an external cutting member to refine products primarily reduced by the conveyor and cas-



ing, having a parallel arrangement of oblique cutting ribs, and means to secure the member to the casing with its ribs confronting the flutes of the conveyor, whereby to discharge the refined products at an angle to the axis of the conveyor.

1,922,762
PACKAGING MACHINE
Arthur Clarence Everett, Boston, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a Corporation of Massachusetts
Application August 21, 1930. Serial No. 476,802
8 Claims. (Cl. 91—50)

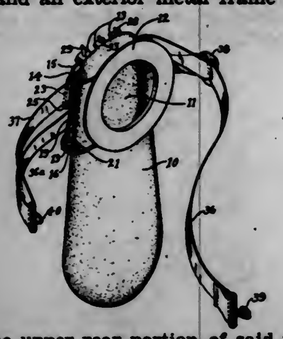


3. An adhesive applying mechanism comprising an adhesive applying member, a rotatable element mounted to be capable of rotation through 360 degrees and upon which the adhesive applying member is mounted to rotate therewith, means for transforming the rotation of the adhesive applying member into a substantially straight-line movement during one portion of each complete rotation of the rotary element, and means for supplying adhesive to the adhesive applying member during the rotation of the same through the remaining portion of each cycle of rotation of the rotary element.

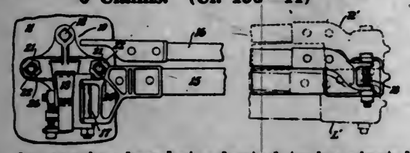
1,922,763
COLOSTOMY APPLIANCE
Rudolph Gricks, Woodbury, Conn.
Application September 4, 1931. Serial No. 561,152
7 Claims. (Cl. 128—283)

3. In a colostomy appliance, an elongated pouch having a forward opening in one side adjacent the top thereof, a flat body engaging flange

integral with said pouch and surrounding said opening, and an exterior metal frame for supporting the upper rear portion of said pouch in uncollapsed condition, said frame having a flange-engaging ring.



1,922,764
AWNING ARM BRACKET
Henry C. Heiser, Cleveland, Ohio, assignor to The Astrup Company, Cleveland, Ohio, a Corporation of Ohio
Application June 14, 1932. Serial No. 617,149
6 Claims. (Cl. 156—44)



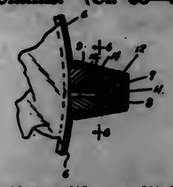
1. An awning bracket adapted to be pivotally connected with a support, said bracket having an aperture therein spaced from said pivotal connection, a bushing rotatably mounted in said aperture and provided with a slot, and a bolt projecting through said slot and adapted to be secured in the support.

1,922,765
SPRING CONNECTION
Raymond Henry, Moline, Ill., assignor to Henry Manufacturing Co., Davenport, Iowa, a Corporation of Iowa
Application July 12, 1929. Serial No. 377,758
Renewed May 29, 1933
3 Claims. (Cl. 267—54)



1. A connection of the class described comprising two members adapted to have relative oscillatory movement, studs carried by one of said members and projecting therefrom substantially in axial alignment, a pair of independent socket units adapted to be carried by the other member with the sockets thereof extending over said studs, resilient bushings having closed outer ends seated in said sockets and engaging over said studs, threaded studs extending from said socket units and adapted to pass through holes in the latter oscillatory member, and nuts engaging over said threaded studs for securing, said socket units to said latter member.

1,922,766
OPHTHALMIC MOUNTING
Samuel Harwitz, Wilkes-Barre, Pa.
Application November 2, 1932. Serial No. 640,906
2 Claims. (Cl. 88—53)



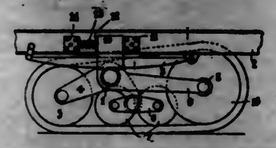
2. In combination with a split lens rim having projecting ends at the split, each of said ends being tapered, and one of said ends having on one face thereof a groove, and the other of said ends having on one face thereof a projection extending lengthwise of said end and engaging the groove in the first named end, a sleeve member fitting said tapered ends, and a retaining bolt extending through openings in the sides of said sleeve and in said ends, one end of the bolt having screw threaded engagement with said sleeve, and a temple pivotally connected with said sleeve.

1,922,767
TRANSPARENT SEAL
Ferdinand W. Humphner, Oak Park, Ill., assignor to Mid-States Gummed Paper Co., Chicago, Ill., a Corporation of Illinois
Application November 14, 1931
Serial No. 575,166
2 Claims. (Cl. 40—2)



1. A seal comprising a strip of normal cellophane having imprinting on one side thereof, a transparent waterproof film covering the reverse side of said strip and an adhesive on the imprinted side of said strip comprising gelatin, a waterproofing material, and a plasticizing material.

1,922,768
ENDLESS TRACK VEHICLE
Adolphe Kégresse, Courbevoie, France
Application March 31, 1931, Serial No. 526,744, and in France April 3, 1930
6 Claims. (Cl. 305—9)



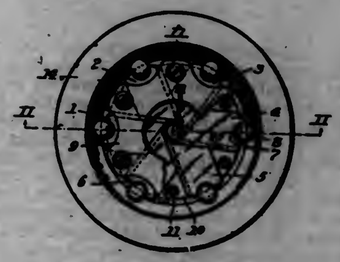
1. In an endless track vehicle having a driving axle and a second axle, vehicle supporting wheels carried by said axles, an endless track extending about said wheels, a longitudinal spring connected to the chassis of the vehicle, a carrying axle supported by the spring intermediate the ends of the spring, means for elastically dampening the movement of the driving axle relative to the carrying axle comprising an element fixed on the carrying axle and an arm connecting the element to the driving axle.

1,922,769
FLYING BOAT
Franz Kleinhenz, Berlin-Treptow, Germany
Application May 27, 1931, Serial No. 540,304, and in Germany June 2, 1930
3 Claims. (Cl. 244—2)



1. A flying boat comprising in combination a main body portion and lateral lower float portions united with said main portion by outwardly and downwardly sloping sides so as to form a common streamlined body of a tunnel shaped cross section, the bottoms of said float portions being shaped in cross section so as to each ascend against the outer side from a keel forming the lower edge and the stern of said tunnel.

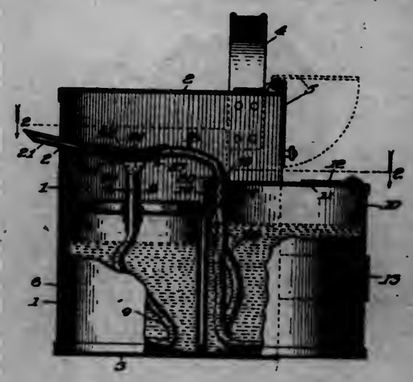
1,922,770
DRAWING DIE
Frederick Kornbrath, Hartford, Conn., assignor to Union Drawn Steel Company, Beaver Falls, Pa., a Corporation of Pennsylvania
Application March 16, 1929. Serial No. 347,608
7 Claims. (Cl. 205—25)



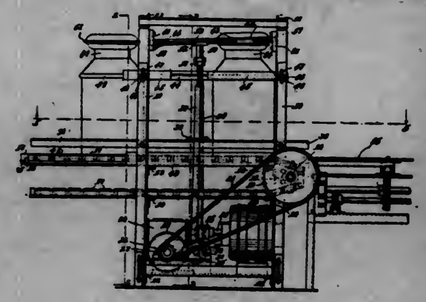
1. A drawing device comprising a support having a bore tapering therethrough, successive dies mounted therein, each die comprising a cage having a plurality of segments mounted therein and defining a die opening, and means for spacing the dies relative to each other and the support.

1,922,771
VAPORIZING APPARATUS
William H. Lapp, Ames, Iowa
Application April 16, 1930. Serial No. 444,844
3 Claims. (Cl. 126—350)

1. A humidifier comprising a container closed on all sides except one and having an aperture in the wall opposite the open side, a fuel tank disposed within the container adjacent the apertured wall, a wick supported in said fuel tank, a water tank behind said fuel tank and partially closing said open side, a tube extending from said water tank over the wick from said fuel tank and through the aperture in said wall, a wick in said tube, and an adjustable draft controlling door hingedly secured to said receptacle adjacent the rear side thereof and co-acting with the top of said water tank to approximately close said open side.



1,922,772
COVER LOOSENING MECHANISM
Harry D. Lathrop, Chicago, Ill.
Application June 20, 1930. Serial No. 462,689
9 Claims. (Cl. 29—34)

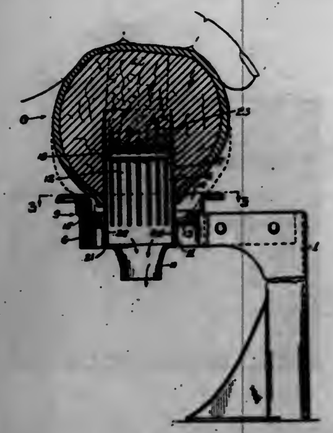


1. Cover loosening mechanism for loosening covers of receptacles, comprising a pair of oscillatory members constructed and arranged to engage a cover at different points on the periphery thereof, means for actuating said oscillatory members, and guide means for retaining a receptacle in position during operation of said oscillatory members.

1,922,773
FRUIT JUICE EXTRACTOR
James L. Maull, Orlando, Fla.
Application September 27, 1932
Serial No. 635,113
5 Claims. (Cl. 100—49)

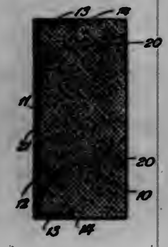
1. In a fruit juice extractor a support having an aperture therethrough, an open ended tube having one end seated on said support and surrounding said aperture, said tube having its periphery provided with apertures, a stop extend-

ing across and adjustable lengthwise of said tube, and means for clamping said stop in adjusted



position in said tube with a portion of each of said apertures on opposite sides of said stop.

1,922,774
MOLDED BLOCK
Peter J. Maul, Detroit, Mich., and Martin Hoffman, Chicago, Ill.
Application May 14, 1931. Serial No. 537,426
6 Claims. (Cl. 72—35)



1. A block of the character described comprising a body portion formed from plastic material, a sheet metal panel covering a surface of the block, and fastening means secured to the sheet metal by adhesive and having portions embedded in the body portion.

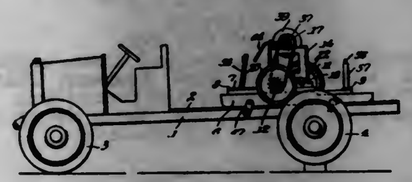
1,922,775
SLIDING WINDOW
Emil Munkert, Esslingen-on-the-Neckar, Wurtemberg, Germany, assignor to Fritz Hopmeier, Stuttgart, Wurtemberg, Germany
Application February 24, 1932, Serial No. 594,914, and in Germany February 14, 1931
6 Claims. (Cl. 20—42)

1. A window construction, comprising a window frame; an upper and a lower window casement, the upper casement being supported in the frame by turnbolts and the lower casement being slidably supported in the frame; and a counterweight in the frame for both window casements,



the point of influence of the counterweight being movable with the movement of the upper window.

1,922,776
HAULING DEVICE
George E. Nichols, Abbeville, Ala.
Application July 21, 1931. Serial No. 552,259
3 Claims. (Cl. 254—166)

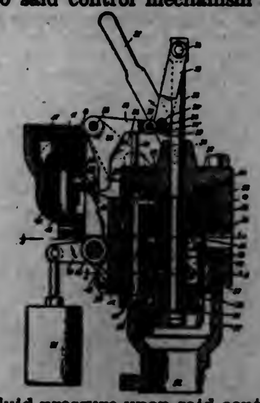


1. In combination with a motor truck having traction wheels, a portable hauling device slidably mounted thereon, said device including a frame having spaced drums mounted thereon, one of said drums having fixed gears adjacent the ends thereof, a driving shaft having axially slidable gears arranged to mesh with said fixed gears, driving members connected to the driving shaft and arranged to engage the traction wheels of the motor truck, means connecting the drive shaft to the other of said drums, and means for moving the driving members into and out of engagement with the traction wheels.

1,922,777
SAFETY DEVICE
Reginald J. S. Figott, Pittsburgh, Pa.
Application November 12, 1930
Serial No. 495,495
16 Claims. (Cl. 137—139)

1. A safety device for the control mechanism of a machine to be rendered inoperative upon abnormal pressure variation, which comprises a pilot valve through which fluid pressure is adapted to be transmitted to said control mechanism or exhausted therefrom, means for normally locking said valve in position to transmit fluid pressure through the valve to said control mechanism, and means adapted to be actuated by abnormal pressure variations in said machine for operating said pilot valve to cut off the transmission of fluid

pressure to said control mechanism and to re-



lease the fluid pressure upon said control mechanism.

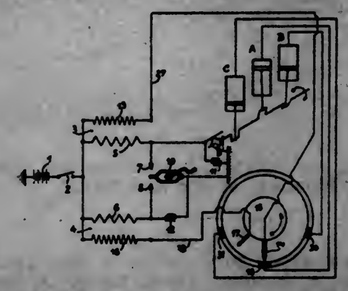
1,922,778
BRAKE
Erling Poppe, Shalford, England
Application June 1, 1931, Serial No. 541,568, and in Great Britain March 10, 1931
2 Claims. (Cl. 188—78)



1. A brake actuator for brakes having expanding brake shoes and an anchor plate therefor, comprising an outwardly extending boss on the anchor plate with a clearance opening therethrough, a spindle mounted loosely through the clearance opening in the boss, a cam mounted on the inner end of the spindle between said brake shoes, said boss having an outwardly beveled outer end, a cone collar slidable on the spindle and engaging the outwardly beveled end of the boss, a spring carried by the spindle outwardly of said collar, an adjustable abutment mounted on the spindle to tension the spring against the collar to normally center the same in the boss, and a flexible sleeve enclosing said spring and collar and engaging at opposite ends over said boss and abutment.

1,922,779
STARTING IGNITION DEVICE
Max Rall, Stuttgart, Germany, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany
Application June 12, 1931, Serial No. 543,970, and in Germany June 12, 1930
5 Claims. (Cl. 123—184)

1. An ignition starting device for multi-cylinder internal combustion engines comprising in combination a running ignition system and a starting ignition system including an ignition coil connected in parallel with the ignition coil of the running ignition system, a battery connec-



tion, a trembler coil operating the starting ignition system and the running ignition system alternately, a switch for said trembler coil and a distributor electrode displaced from the distributor electrode of the running ignition system.

1,922,780
CEMENTING APPARATUS FOR OIL AND GAS WELLS
Jay French Robinson, Pittsburgh, Joseph M. Chilcote, Wellsboro, and Wallace H. Haupt, Tioga, Pa.
Application November 11, 1932
Serial No. 642,290
4 Claims. (Cl. 166—1)
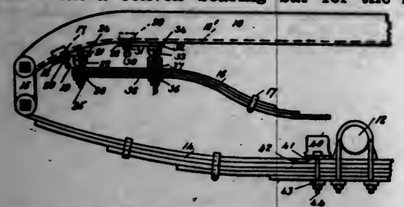


1. In cementing apparatus for oil and gas wells, the combination with a well casing, of a flat, apertured disc adapted to be secured within the lower end portion of said casing, and a plug adapted to force cement out of the lower end of the casing when moved downwardly therethrough into engagement with the flat disc, said plug having longitudinally extending grooves formed in its lower end portion.

1,922,781
AUXILIARY SPRING FOR MOTOR CARS
Joseph F. Rogers and William D. Deenan, Butte, Mont.
Application May 26, 1931. Serial No. 540,138
4 Claims. (Cl. 267—45)

1. An auxiliary spring for a motor car, front and rear clamps for securing the said spring to the frame of the car, the rear clamp being pro-

vided with a convex bearing bar for the said



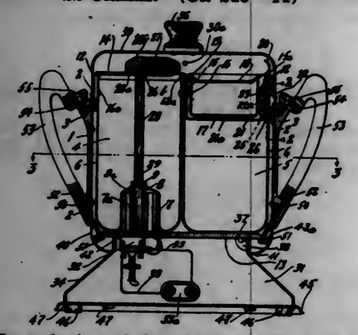
spring, and means for securing each clamp to one end portion of the said spring.

1,922,782

INFUSION DEVICE AND THE LIKE

Charles A. Schallis, Ernestville, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a Corporation of New Jersey

Application August 5, 1930. Serial No. 473,223
22 Claims. (Cl. 219—44)



1. In a device of the class described, the combination of two compartments adapted to contain liquid, a heater associated with one compartment, thermosiphonic means adapted to transfer a predetermined part of the liquid contents of the said one compartment to the other compartment, said means being so positioned in respect to said one compartment as to be effective to transfer only such predetermined part of said liquid contents, means for withdrawing at will liquid remaining in the said one compartment, and means for withdrawing at will the liquid contents of the said other compartment.

1,922,783

PUMPKIN STEAMER

John Schmidt, Hoopeston, Ill., assignor to Sprague-Sells Corporation, Hoopeston, Ill.

Application September 15, 1927
Serial No. 219,691
10 Claims. (Cl. 99—2)



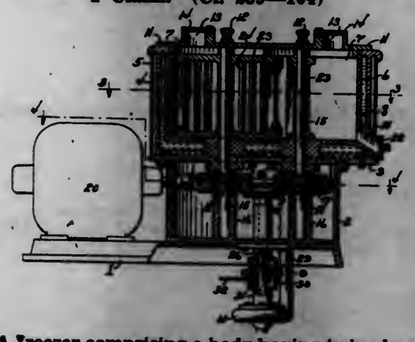
1. An apparatus for treating a food product comprising a substantially closed chamber, a sealing head for closing said chamber, a treating mechanism within said chamber, a support within said chamber for one end of said mechanism permitting relative axial movement, means attaching the other end of said mechanism to said sealing head, means without said chamber for supporting said head when removed from sealing contact therewith, power means carried by said head for operating said treating mechanism, automatically disconnectable operating means for driving feed and discharge devices secured to said chamber and operated from the power means carried by said head, feed means and discharge means fixedly connected to said chamber and separate power means for moving said head into and out of sealing engagement with said chamber.

1,922,784

ICE CREAM FREEZER

Samuel Sheriff and Henry J. Hitzfeldt, Wilkinsburg, Pa.

Application October 12, 1931. Serial No. 568,474
1 Claim. (Cl. 259—104)



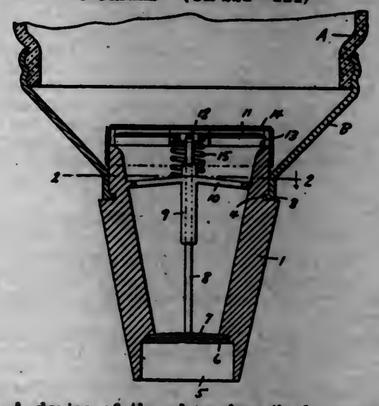
A freezer comprising a body having twin chambers provided with cylindrical wall surfaces, shafts journaled for rotation at the centers of said chambers, beater arms carried by the shafts, beater blades carried by the arms, the blades at one side of the shafts being located at the same distance from the centers of the shafts as the blades at the opposite sides, the blades at the opposite sides of the centers of the shafts being disposed at opposite angles to the plane passing through the centers of both the shafts, means for rotating the shafts simultaneously, and scraper blades carried at the outer ends of the arms and adapted to engage the cylindrical surfaces of the chambers.

1,922,785

AUTOMATIC SUGAR DISPENSER

Harry V. Stanfield, Greensburg, Pa.

Application May 6, 1932. Serial No. 609,715
3 Claims. (Cl. 221—114)



3. A device of the class described comprising a container, a neck member connected therewith

having valve seats at its inner and outer ends, a stem movably arranged in the neck member, a valve in each end of said stem, and a spring for normally holding the outer valve on its seat and the inner valve open, the relationship between the tension of the spring, the area of the outer valve and the capacity of the neck member being such as to cause the weight of a certain amount of material resting on the outer valve to overbalance the spring and open the outer valve and close the inner valve.

1,922,786

STORE ILLUMINATING DEVICE

Harold D. Thompson, Cincinnati, Ohio, assignor to Piggly Wiggly Corporation, Cincinnati, Ohio, a Corporation of Delaware

Application February 11, 1932. Serial No. 592,411
3 Claims. (Cl. 240—1)



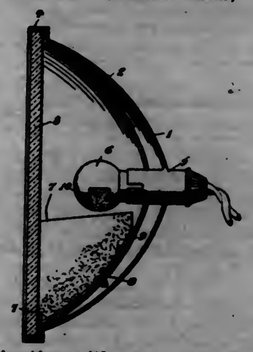
3. An illuminating device of the kind described comprising a box having lamps mounted therein, a light-diffusing panel forming the top of the box, a colored translucent panel forming the front of the box, and a plurality of convex-concave light deflecting elements positioned in front of the last named panel adapted to cut off the downwardly directed rays and to deflect them upwardly, substantially as set forth.

1,922,787

HEADLIGHT

Alexander Teschmaa, Piqua, Ohio

Application April 17, 1931. Serial No. 530,934
1 Claim. (Cl. 240—43.2)



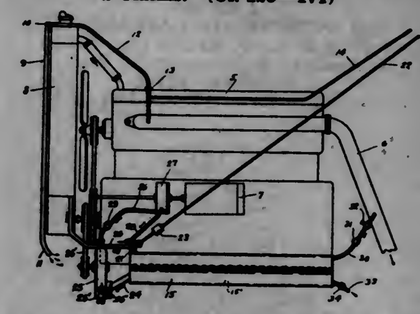
The combination with an automobile headlight including a reflector, lens and incandescent lamp bulb, of a segmental plate secured to and extending entirely across the inner face of the reflector beneath the lamp bulb and having its upper edge at the center thereof concave and disposed concentric with the lamp bulb and spaced downwardly therefrom an appreciable distance to expose the reflector surface immediately below the lamp bulb, the upper surface of the plate being covered with minute irregular pieces of glass, said segmental plate having its upper edge on opposite sides of the concave portion disposed entirely beneath a horizontal line touching the lower surface of the lamp bulb and inclined downwardly in opposite directions from said concave portion to the outer edge of the headlight, said segmental plate being opaque whereby to prevent the penetration of light rays therethrough and to cause the irregular pieces of glass to refract the rays of light from the bulb in various directions and diffuse the same over a roadway.

1,922,788

COMBINATION HEATING AND COOLING DEVICE FOR AUTOMOBILES

Lucian F. Wetherall, Huntington, W. Va., assignor of one-half to Sarah Brownstein, Huntington, W. Va.

Application April 1, 1932. Serial No. 602,535
2 Claims. (Cl. 123—174)



1. In an automobile, the combination with an internal combustion engine, and a radiator for cooling it, of a coil mounted adjacent the radiator, and including a horizontal pipe, vertical tubes paralleling the radiator and connected at their upper ends with the horizontal pipe, the lower ends of the tubes being free and extending downwardly beyond the bottom of the radiator and a pipe connecting the horizontal pipe with the exhaust manifold of the internal combustion engine.

1,922,789

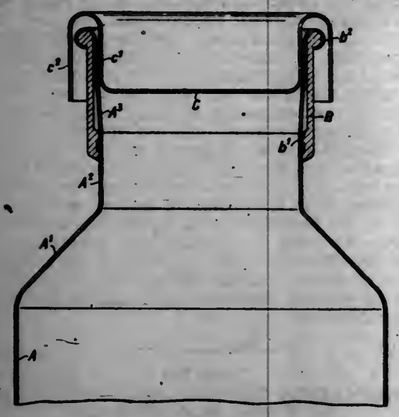
CLOSING MEANS, MORE PARTICULARLY FOR MILK CANS AND THE LIKE

Peter Wolf, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany

Application September 30, 1932, Serial No. 635,655, and in Germany August 5, 1931
9 Claims. (Cl. 220—42)

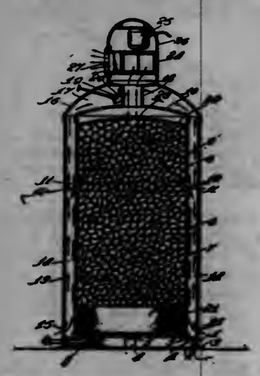
3. A receptacle, a cover adapted to fit within the upper portion of said receptacle, a comparatively thin-walled conical sheet metal part in said upper portion of said receptacle adapted to come into sealing contact with said cover, a comparatively thick-walled part on said receptacle surrounding said sheet metal part and having the latter fixed on it at top and bottom, said surrounding part below the zone of abutment of said

sheet metal part being spaced from the latter to allow bending of the sheet metal part in applying



the cover, said thin-walled conical sheet metal part running straight between the places of fixation.

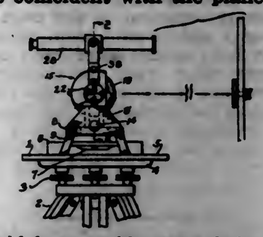
1,922,790
AIR CONDITIONING APPARATUS
Fern R. Alger, Kansas City, Mo.
Application November 16, 1932
Serial No. 642,962
14 Claims. (Cl. 62—133)



1. Air-conditioning apparatus comprising a container for ice and in which the water resulting from the melting of the ice collects, the apparatus having a passage through which the air to be conditioned flows, and a float in said container beneath the ice and exerting buoying action on the ice and movable under the buoying action of the water toward said passage for maintaining ice in position for contact by the air flowing in said passage.

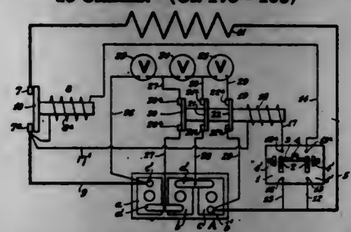
1,922,791
SURVEYING INSTRUMENT
Amos F. Bumpus, Prescott, Ariz.
Application March 5, 1930. Serial No. 433,369
10 Claims. (Cl. 33—46)

1. A surveying instrument comprising in combination, orientable means for projecting a beam of rays, means for imparting a flat side to said beam, a transit supported by said orientable means including a telescope having one of its hair lines coincident with the plane of the flat



side of said beam said means being adjustable in alternative positions 90° apart.

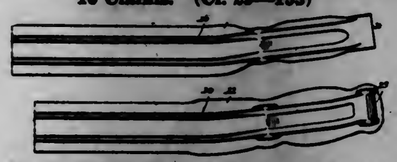
1,922,792
TESTING APPARATUS
Edward H. Cain, South Euclid, Ohio
Application March 30, 1932. Serial No. 602,027
15 Claims. (Cl. 175—183)



1. In an electric testing apparatus, the combination with a circuit having a meter connected therein and adapted to be connected to the unit to be tested, a separate circuit including a resistance adapted to be connected to the unit, a switch means having a timed actuating mechanism for controlling said separate circuit at the end of a predetermined period, means including a circuit for controlling the reading of said meter, a switch in the last mentioned circuit, and a timed actuated mechanism for operating said controlling means at the end of a predetermined period

---

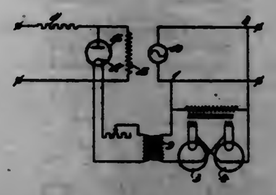
1,922,793
REWORKING OF DIE-ROLLED ARTICLES
Paul L. Coyle, Cornopolis, Pa., assignor to Republic Steel Corporation, Youngstown, Ohio, a Corporation of New Jersey
Application December 23, 1929
Serial No. 415,959
16 Claims. (Cl. 29—153)



2. In a method of making metal shapes, the steps including die-rolling a forging blank with flash, edge-forging the blank to give it the desired camber, forging it to shape and size, thereby producing additional flash co-planar with the original flash, and removing all said flash simultaneously.

3. In a method of forging metal shapes, the steps including providing a die-rolled forging blank having flash, forging the blank to the required shape and size and removing the original flash and that formed by the forging simultaneously.

1,922,794
ARRANGEMENT FOR AMPLIFYING ALTERNATING VOLTAGE VARIATIONS
Frans Hendrik de Jong, Eindhoven, Netherlands, assignor to N. V. Philips Gloeilampenfabrieken, Eindhoven, Netherlands
Application May 19, 1930, Serial No. 453,704, and in the Netherlands July 23, 1929
5 Claims. (Cl. 171—119)

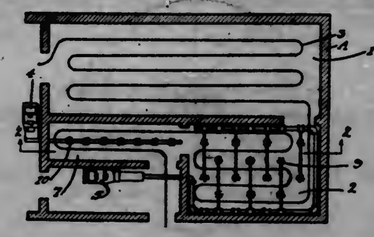


1. In a system for amplifying alternating voltage variations, a source of alternating voltage the variations of which are to be amplified, two discharge tubes each comprising an incandescent cathode and an anode, the cathode of the first tube being connected to the anode of the second tube and the anode of the first tube being connected to the cathode of the second tube, the anode-cathode spaces of the two tubes forming an impedance, an output impedance for the amplified voltage variations in series with the first-mentioned impedance, the series combination of the two impedances being connected in multiple to said voltage source, and means for energizing said cathodes from said source.

5. In a regulating system for alternating-current generators, amplifying means connected to the terminals of the generator comprising two discharge tubes each provided with an incandescent cathode and an anode, the cathode of the first tube being connected to the anode of the second tube and the anode of the first tube being connected to the cathode of the second tube, the anode-cathode spaces of the two tubes forming an impedance, an output impedance for the amplified voltage variations in series with the first-mentioned impedance, the series combination of the two impedances being connected across the terminals of said generator, a transformer having a primary winding connected across the terminals of said generator and having two secondary windings to supply heating current for the respective cathodes of said tubes, an exciting winding for the generator, a resistance connected in series with said exciting winding and a discharge tube provided with a cathode and an anode connected in parallel with said exciting winding, the last-mentioned cathode being connected to said output impedance to be heated in accordance with the voltage thereacross.

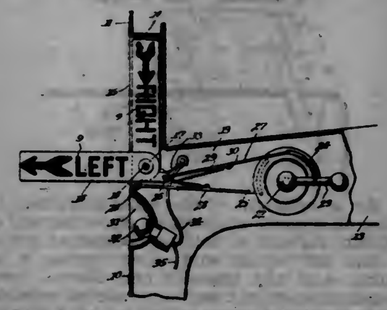
1,922,795
APPARATUS FOR BRINE FREEZING AND ICING OR GLAZING EDIBLES
Andre H. De Reme, Quebec City, Quebec, Canada
Application January 2, 1931, Serial No. 506,154, and in Canada January 27, 1930. Renewed February 9, 1933
3 Claims. (Cl. 62—104)

1. An apparatus of the class described comprising a sharp freezer, a brine freezing room communicating therewith, means for maintaining an atmosphere of cool fluid in the freezing room, an icing room communicating with the brine freezing room, and means for conveying



the commodities being treated through the apparatus at a predetermined rate.

1,922,796
DIRECTION INDICATOR FOR VEHICLES
Thomas Ellis Drewry, Griffin, Ga.
Application November 18, 1931
Serial No. 574,834
3 Claims. (Cl. 116—53)



1. A signal device comprising a casing associated with the front door post and dash of a motor vehicle, said casing including a vertical portion and a horizontal portion, a pair of signal arms normally positioned within the vertical portion of the casing and arranged selectively to swing outwardly to a horizontal position, means pivotally supporting the lower ends of said arms in the casing, a revoluble member mounted in the horizontal portion of the casing, said member having opposed arcuate slots and an operating shaft extending axially therefrom and through the dash into the vehicle, a rod connected to one of said arms and slidable in one of said slots, a second rod connected to the other of said arms and slidable in the other of said slots, means normally maintaining said arms in a vertical position within the casing and means on said shaft for rotating said member to selectively move either of the arms to its horizontal position without moving the other arm.

1,922,797
ROTARY PUMP MACHINE
George Edward Thomas Eyston, London, England, assignor to Powerplus (1927) Limited, London, England, a Company of Great Britain
Application May 24, 1929, Serial No. 365,648, and in Great Britain July 11, 1928
16 Claims. (Cl. 103—144)

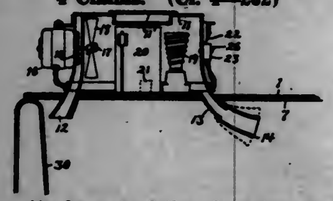
1. A rotary pump or like machine comprising a revoluble member and a control member disposed on a fixed axis and a gear connection between a curved surface of said revoluble mem-

ber and said control member whereby as said revoluble member turns, said curved surface



rolls in cycloidally rolling contact engagement with said control member.

1,922,798
VAPOR CIRCULATING ATTACHMENT FOR BATHTUBS
Carl D. Frech and Frank F. Jueschke, Fort Wayne, Ind.
Application March 21, 1932. Serial No. 600,168
4 Claims. (Cl. 4—262)



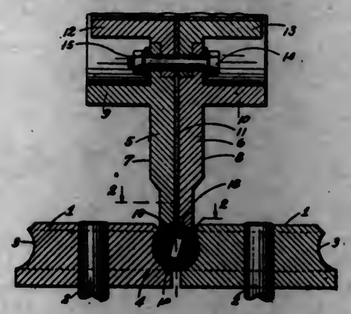
1. An attachment of the class described, consisting of a cover adapted to close the top of a bath tub, formed of folding connected sections, one end portion of said cover having a body opening, and the opposite end thereof having two spaced openings, and a generator removably mounted on said cover consisting of a box having inlet and outlet ducts adapted to be inserted respectively through said spaced openings so as to have communication therethrough with said tub, and containing a motor-driven fan and a liquid holding vessel so disposed that when the generator is in operative position and the fan is operated circulation of air is established through the tub and box and vapor arising from liquid placed in the vessel permeates the air thus circulated.

1,922,799
METHOD FOR AFFIXING IDENTIFICATION TAGS
George E. Gaus, Washington, D. C., dedicated to the free use of the Government and the People of the United States
Application December 16, 1932
Serial No. 647,601
1 Claim. (Cl. 40—22)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



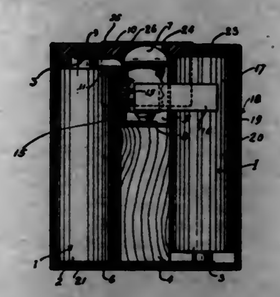
A method for affixing identification tags to fibrous material, which comprises initially securing an identification tag, having anchoring means, to a bale covering, and impacting the anchoring means with the fibrous material during the process of baling.

1,922,800
APPARATUS FOR LAP WELDING TUBING
James Gibson, Euclid, Ohio, assignor to Steel & Tubes, Inc., Cleveland, Ohio, a Corporation of Ohio
Application September 19, 1930
Serial No. 482,985
6 Claims. (Cl. 219—8)



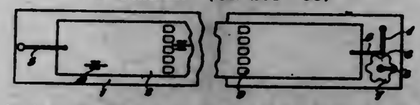
1. A welding machine comprising means including a pair of electrode rollers to bring edge portions of a tube into lapped relation, means for moving a tube in the direction of its length with the electrode rollers contacting with the exterior of the tube at opposite sides of the seam therein, and a supporting roller located inside the tube in contact with the interior of the underlapped portion of the tube at a point displaced laterally from its edge.

1,922,801
BATTERY HAND LAMP
Charles A. Gillingham, Lakewood, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York
Application July 12, 1930. Serial No. 467,568
6 Claims. (Cl. 240—10.65)



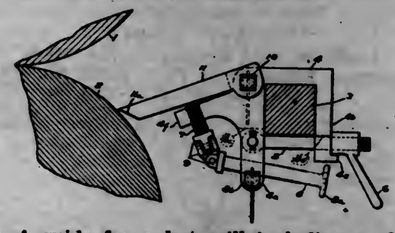
1. A battery hand lamp comprising a dry battery formed of a pair of dry cells having their unlike electrode terminals disposed at the opposite ends of said battery; a short spacer separating said cells and providing a space at one end of said batteries between said cells; an electric light bulb in said space and having one of its terminals electrically connected to one terminal of said battery; a switch electrically connected to the other terminal of said battery and adapted to be actuated to form a contact with the other terminal of said bulb; and a casing enclosing all of said elements, said casing comprising a flexible side adapted to be pressed to actuate said switch.

1,922,802
AMUSEMENT APPARATUS
Arthur Gueydan, Echandens, near Lausanne, Switzerland
Original application September 20, 1928, Serial No. 307,314, and in Switzerland December 12, 1927. Divided and this application September 6, 1930. Serial No. 480,210
5 Claims. (Cl. 273—86)



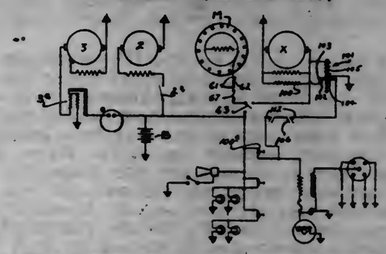
1. An amusement apparatus comprising a straight track surface, rows of obstacles placed on the track, driving means connected to both extreme ends of the track and including a resilient means to pull the track in one direction, a rotatable toothed wheel, and a lever connected to the track and coacting with the toothed wheel to pull the track in the other direction, and a series of movable figures placed on the track and being provided with rocking bases.

1,922,803
GUIDE FOR ROLLING MILLS
Albert Harris, Massillon, Ohio, assignor, by mesne assignments, to Republic Steel Corporation, Youngstown, Ohio, a Corporation of New Jersey
Application November 12, 1929
Serial No. 406,593
12 Claims. (Cl. 80—51)



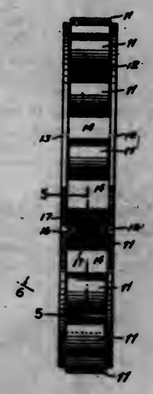
4. A guide for a hot mill including a clamp detachably secured to the rest bar of the mill, a guide plate pivotally secured to said clamp, and means carried by said clamp for supporting said guide plate in an inclined position adjacent the lower roll of the mill and out of contact therewith.

1,922,804
TRANSMISSION MECHANISM
John Allen Heany, New Haven, Conn., assignor, by mesne assignments, to Heany Transmission Company, a Corporation of Connecticut
Application February 24, 1931. Serial No. 517,751
9 Claims. (Cl. 172—239)



1. In a transmission mechanism a drive shaft, a driven shaft, an induction clutch between said shafts, means indirectly operated by said drive shaft to excite said induction clutch, and means independent of said drive and driven shafts for rendering said last mentioned means instantaneously generative upon rotation thereof.

1,922,805
BEARING CONSTRUCTION AND ART OF MAKING THE SAME
Lewis R. Heim, Danbury, Conn.
Application October 4, 1930. Serial No. 486,314
6 Claims. (Cl. 29—148.4)



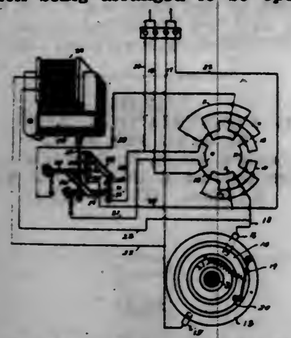
1. In a roller bearing, in combination, a substantially cylindrical sheet-metal shell having parallel slots extending crosswise thereof and continuous spaced annular flanges projecting from the periphery of said shell and integral therewith, rolls disposed within said slots and provided with concaved ends, and regularly spaced hollow convex portions pressed inwardly of said flanges and extending into said concaved ends of said rolls to retain said rolls in their respective slots.

3. The herein described art which consists in forming parallel spaced flanges at the ends of a cylindrical sheet-metal shell, forming a series of peripherally spaced slots in the shell and between said flanges, forming recesses in the ends of bearing rolls, pressing the metal of said sheet metal flanges inwardly at intervals coincident with the spacing of said slots, placing rolls in between said flanges and in said slots, and forcing said flanges toward each other to cause said inwardly pressed portions of said flanges to enter the recesses in said rolls.

1,922,806
ELECTRIC MOTOR
Louis E. Heinrich, Beaumont, Tex.
Application September 21, 1931
Serial No. 564,076
4 Claims. (Cl. 172—274)

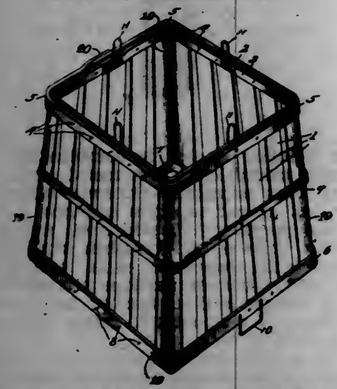
2. An electric motor comprising a stator having a two section main winding and a single section auxiliary winding, an electromagnet, electrical conductors into which the auxiliary winding and said magnet are connected, electrical conductors into which the sections of the main winding are connected in parallel, a centrifugally operable switch, a rotor associated with the stator, a device responsive to the speed of the rotor effective to complete an electrical

circuit through, and to energize, said magnet, said switch being arranged to be operated by



said magnet when the latter is energized, to connect the sections of the main winding in series.

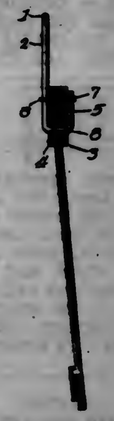
1,922,807
RECTANGULAR BASKET
Leslie M. Hile, Benton Harbor, Mich.
Application July 21, 1930. Serial No. 469,541
6 Claims. (Cl. 217—122)



2. A basket having a rectangular top and bottom, but whereby space between them is practically eliminated when several baskets of this kind are placed side by side and viewed from above, comprising downwardly tapered flat side walls, whereby the basket tapers downwardly and is free from curvature strain on all four flat sides thereof, so that baskets of this kind may be nested together for shipment or storage, comprising a pre-formed bottom unit forming the bottom wall of the basket, said unit comprising a rectangular inside hoop having a bottom wall secured to the upper edge thereof, with a straight lap joint in said hoop on one flat side of the basket, so that said joint is entirely straight, whereby practically all straight lines are employed in a downwardly tapered basket having a raised square bottom.

1,922,808
BASKET HANDLE
Leslie M. Hile, Benton Harbor, Mich.
Application February 13, 1931. Serial No. 515,529
5 Claims. (Cl. 217—125)

1. A basket, handle constructed on the rim of a basket, comprising a bail-shaped wire handle having the legs thereof inserted through the inner and outer hoops of the basket rim, with the ends of the wire bent upwardly against one of said hoops, and staples inserted through the two hoops crosswise of portions of the handle



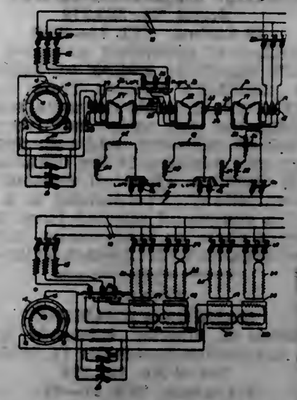
and having their ends or points clinched over other portions of the handle, whereby each staple forms in effect a tie rod to clamp the two hoops tightly between integral inner and outer portions of the handle.

1,922,809
BASKET HANDLE
Leslie M. Hile, Benton Harbor, Mich.
Application February 13, 1931. Serial No. 515,531
4 Claims. (Cl. 217—125)



1. A basket handle constructed on the rim of a basket, comprising a bail-shaped wire handle having the legs thereof inserted inwardly through the inner and outer hoops of the basket, with the inner ends of the wire bent laterally and upwardly against the inner hoop, and staples inserted through the two hoops, two of said staples engaging upright side portions of the handle, and two other staples engaging the end portions of the wire handle, whereby said bent end portions are maintained at fixed angles to the upright sides of the handle, against the inner hoop.

1,922,810
ADJUSTABLE SPEED ALTERNATING CURRENT COMMUTATOR MOTOR
John I. Hull, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application March 26, 1930. Serial No. 437,497
14 Claims. (Cl. 172—274)



1. In combination, an alternating current commutator type dynamo electric machine comprising a primary winding and a commutated winding provided with commutator brushes, a suitable source of alternating current connected to said primary winding, a synchronous generator electrically connected to said brushes and means to drive said synchronous generator at a speed whereby the frequency of its currents is equal to the frequency of said source.

13. The method of controlling the speed torque characteristic of an alternating current commutator motor having an exciting winding and a commutated armature winding, the said method including the steps of impressing alternating current voltages having the same frequency on the exciting winding and on the armature winding, increasing the magnitude of each voltage to lower the motor speed during its sub-synchronous speed range, decreasing the magnitude of each voltage to raise the motor speed during its sub-synchronous speed range, reversing the relative instantaneous direction of the voltage impressed on the armature winding to obtain operation of the motor above its synchronous speed, decreasing the magnitude of the voltage impressed on the exciting winding and increasing the magnitude of the voltage impressed of the armature winding to raise the motor speed during its super-synchronous speed range, and increasing the magnitude of the voltage impressed on the exciting winding and decreasing the magnitude of the voltage impressed on the armature winding to lower the motor speed during its super-synchronous speed range.

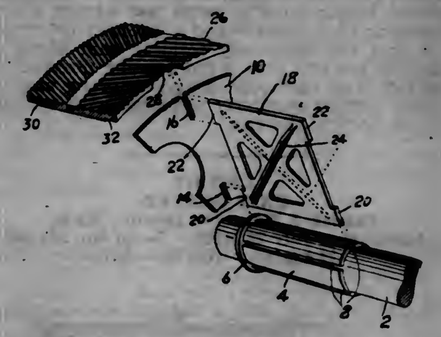
1,922,811
MULTIPLE AMPULLA
Stuart Kabasick, Philadelphia, Pa.
Application November 7, 1929. Serial No. 405,376
4 Claims. (Cl. 128—272)

1. An ampulla comprising a pair of substantially concentrically arranged tubular glass members, a hermetically sealed circumferentially extending jointure between the upper ends of said members, and an elongated hollow stem of reduced diameter communicating with the interior of the inner of said members and extending axially through an opening provided in the lower end of the outer of said members, the body of said outer member being of greater



diameter than said inner member whereby to provide an annular chamber therebetween which is adapted to be filled through said last-mentioned opening.

1,922,812
GEAR WHEEL
Frank W. Kennedy, Trenton, N. J., assignor to De Laval Steam Turbine Company, Trenton, N. J., a Corporation of New Jersey
Application October 31, 1931. Serial No. 572,321
7 Claims. (Cl. 74—28)

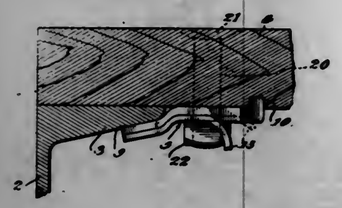


1. A gear wheel construction including means providing an axially slotted hub, a band providing inwardly directed axially extending slots, radial webs having the inner ends engaged in the hub slots and their outer ends engaged in the band slots, annular radially extending members having key-and-slot engagement with the webs, and means holding the parts in assembled relationship.

1,922,813
2-NAPHTHALENEMONOSULPHONIC ACID
Carl L. Masters, Orchard Park, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York
Application September 15, 1932
Serial No. 633,263
19 Claims. (Cl. 260—150)

1. The method of producing 2-naphthalenemonosulphonic acid from a 2-naphthalenemonosulphonic acid containing 1-naphthalenemonosulphonic acid in admixture therewith which comprises heating a reaction mixture containing said 2-naphthalenemonosulphonic acid, sulphuric acid and water at a temperature maintained within the range 145°–155° C., whereby said 1-naphthalenemonosulphonic acid is decomposed by hydrolysis.

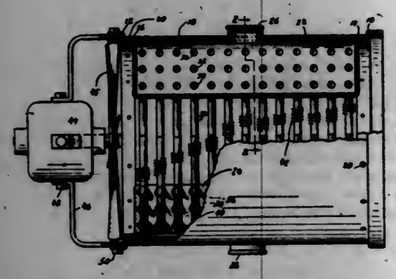
1,922,814
FLOOR CLIP AND THE METHOD OF MAKING SAME
John A. MacLean, Chicago, Ill., assignor to MacLean-Fogg Lock Nut Company, Chicago, Ill., a Corporation of Illinois
Application February 9, 1931. Serial No. 514,478
16 Claims. (Cl. 29—148)



1. In combination with a sill for supporting a floor board, a clip having a body portion engaging the underside of said board and another portion engaging under the sill flange, fastening means securing said clip to the sill and floor board and means integral with said clip for locking said fastening means.

5. The method of making a fastening clip which consists in shearing a blank of predetermined length from a metal bar having a rectangular cross-section and a laterally extending rib and simultaneously forming said blank to provide the clip with a downwardly directed rib portion and upwardly extending prong and an offset portion angularly displaced with relation to the body of the clip.

1,922,815
UNIT HEATER
Patrick J. McIntyre, Detroit, Mich.
Application July 25, 1931. Serial No. 553,044
11 Claims. (Cl. 257—137)



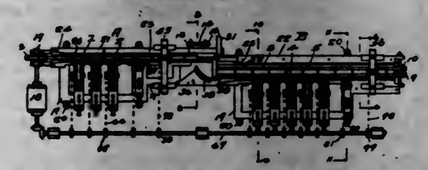
4. In combination with an open ended cylinder, a pair of manifolds extending along the interior of said cylinder in opposed relation to one another, each of said manifolds being substantially triangular in cross section, the base thereof being adjacent the surface of the cylinder, radially spaced apart semi-circular coil sections in axially alined relation connecting adjacent legs of said manifold, said manifolds projecting radially into the interior of the cylinder along substantially one-quarter of the diameter thereof, and a motor driven fan positioned at one extremity of the cylinder concentric therewith, the blades of said fan being concentric therewith and substantially equal to the radius of said cylinder.

1,922,816
PREPARATION OF STABILIZED TITANOUS SALT SOLUTIONS
Robert M. McKinney, Baltimore, Md., assignor, by mesne assignments, to Krebs Pigment and Color Corporation, Newark, N. J., a Corporation of Delaware
No Drawing. Application April 27, 1931
Serial No. 533,370
10 Claims. (Cl. 23—250)

1. A method of producing stabilized titanous salt which comprises adding to titanium salt solutions stabilizers selected from the group consisting of organic acids and metal salts thereof, removing the iron compounds from said titanium sulfate solutions, and reducing the titanium in said solutions to the titanous form.

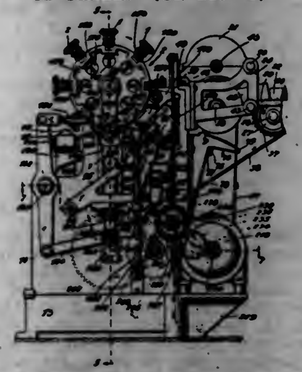
9. As a reducing agent an aqueous solution of tri-valent titanium containing as a stabilizing agent a compound selected from the group consisting of citric, tartaric, oxalic, lactic, malic and other organic hydroxy-carboxylic acid.

1,922,817
GRINDING MACHINE
William K. Morton, Zanesville, Ohio
Application September 17, 1930
Serial No. 482,564
9 Claims. (Cl. 51—76)



1. In a duplex grinding machine for flat tile the combination with a pair of longitudinally extending conveyers and an intehmediate, stationary transfer plate, of a rotary transfer wheel having spokes adapted to transfer work across the plate from one conveyer to the other and simultaneously turn the tile on a vertical axis, and means for operating the conveyers and wheel in unison.

1,922,818
FRUIT CUTTING AND JUICE EXTRACTING MACHINE
Elof Nordstrom, East Orange, N. J., assignor to Hoffman Beverage Company, Newark, N. J., a Corporation of New Jersey
Application October 4, 1929. Serial No. 397,258
31 Claims. (Cl. 146—3)



1. A fruit juice extracting machine comprising a turret, a plurality of fruit piece supporting

chucks thereon in circular arrangement, means for rotating the turret step-by-step, a carriage movable toward and from the turret, extracting means on the carriage to cooperate with the pulp of fruit pieces supported by the chucks, means for positively ejecting skins from the chucks after extraction, and means to actuate said ejecting means while the turret is at rest.

1,922,819
SUPPORTING MEANS FOR REFLECTORS AND LIKE DEVICES
Victor L. Oestmaes, Westfield, and Richard W. Luce, Mountainside, N. J., assignors to American Gasaccumulator Company, Elizabeth, N. J., a Corporation of New Jersey
Application October 29, 1929. Serial No. 403,334
8 Claims. (Cl. 40—131)



1. Supporting means of the character described, comprising a member adapted for attachment to a reflector, lamp or the like, said member having a main body portion and a portion in displaced relation thereto to provide a shoulder intermediate the said two portions, the said displaced portion having an opening therethrough through which fastening means is adapted to be inserted, and means in engagement with said shoulder to hold said member against turning.

1,922,820
FUSE PLUG
Robert H. Olandt, Long Island City, N. Y.
Application November 25, 1931
Serial No. 577,202
2 Claims. (Cl. 200—121)



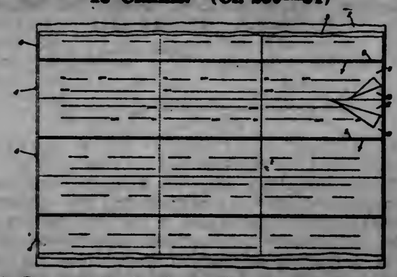
2. A device as characterized comprising a body portion having a chamber therein for a replaceable fusible element, a pair of upstanding members in substantially parallel relationship to each other, within said chamber, said upstanding members being provided with means at their upper ends for receiving said fusible element, and means extending inwardly from the outside of the body portion and attached to one of said upstanding members for aligning and positioning said member with respect to the other said member when the fusible element is to be attached thereto, said means to spring outwardly when the fusible element has been blown thereby indicating disconnection, and said body being provided with a slidable cover to be removed when replacing the fusible element with a new one.

1,922,821
RECORDING ACOUSTIC VIBRATIONS
Karl Pulvermacher, Budapest, Hungary, assignor of one-half to Paul Freund, Budapest, Hungary
Application August 4, 1931, Serial No. 555,027, and in Germany August 13, 1930
7 Claims. (Cl. 274—46)



1. An apparatus for photographically recording acoustic vibrations, comprising a light duct fixed at one end and adapted to be set in elastic vibration at its other end and to conduct light in its interior from its fixed end to its free end practically without loss notwithstanding the flexures which the duct suffers in vibration, means for setting said free end of said light duct into elastic vibration in accordance with the acoustic vibrations to be recorded, a sensitive tape so arranged as to intercept the light leaving the free end of said light duct, and means for displacing said tape in its longitudinal direction.

1,922,823
RADIOGRAPH MARKING MEANS AND METHOD OF MAKING THE SAME
Harold S. Sawford, Ozone Park, N. Y.
Application September 1, 1932. Serial No. 631,357
13 Claims. (Cl. 250—34)



1. In a radiograph marker, in combination, a sheet of translucent material comprising a front leaf and a back leaf, and a shielding sheet substantially co-extensive with the back leaf and secured thereto.

1,922,822
METHOD AND MEANS FOR MARKING RADIOGRAPHS
Harold S. Sawford, Ozone Park, N. Y.
Application December 8, 1930. Serial No. 500,826
9 Claims. (Cl. 250—34)

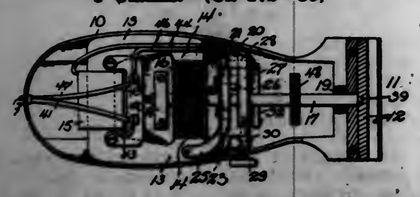
1. The method of marking radiographs, which comprises interposing a photographic plate be-

tween a pair of fluorescent intensifying screens, interposing between the plate and one of the intensifying screens, a screen completely opaque to actinic rays through the entire marking area,



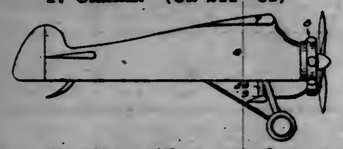
interposing symbols opaque to actinic rays between the plate and the other intensifying screen within the marking area, and taking the exposure.

1,922,824
ELECTRIC MOTOR
Jacob Schick, Sound Beach, Conn., assignor to Schick Dry Shaver, Inc., Stamford, Conn., a Corporation of Delaware
Application August 19, 1930. Serial No. 476,303
5 Claims. (Cl. 172—36)



1. A motor comprising a field member having spaced ends, an armature having aligned projecting arms and concave sides and rotatable between said ends in a plane perpendicular to the plane of the field member; contacts, one of which is operated from the armature and regulated to be in open position when the said arms are approximately extending between said ends, a shaft on which the armature is secured, and a wheel on said shaft for starting and stopping the motor said field member having high magnetic retentivity to hold said armature in place during the stopping operation.

1,922,825
AIRPLANE
John Squires, Hagerstown, Md.
Application August 30, 1929. Serial No. 389,551
17 Claims. (Cl. 244—31)



1. In combination with an airplane and the engine thereof, means for silencing the exhaust from said engine including a silencer of airfoil section supported from said airplane outside the zone of influence of the wings thereof on the surrounding air and connected with said engine, said silencer effecting a lifting effort on said airplane during normal operation of said airplane.

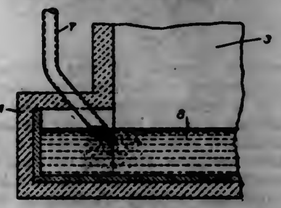
1,922,826
DISPENSING CARTON
Marshall H. Smith, Menasha, Wis., assignor to The Menasha Products Company, Menasha, Wis., a Corporation of Wisconsin
Application April 9, 1931. Serial No. 528,758
2 Claims. (Cl. 206—58)

1. In a box of the class described for receiving a roll of paper and including ends and sides, one of said sides including a fixed section and a closure hinged thereto having a shearing edge portion substantially overlapping an adjoining substantially full side between which side and portion the paper is passed for withdrawal from the roll, said paper being frictionally held between said portion and said adjoining side during the



tearing of the paper said shearing edge portion being movable away from said adjoining side to provide an opening through which access may be had to the roll for the purpose of passing its free end over said adjoining side but said opening being of insufficient size to permit passage of the entire roll therethrough.

1,922,827
METHOD OF AND APPARATUS FOR FEEDING MELTING FURNACES
Edward C. Stewart, Washington, Pa., assignor to Tygart Valley Glass Company, Washington, Pa., a Corporation of West Virginia
Application September 24, 1931
Serial No. 564,797
6 Claims. (Cl. 49—63)



1. The method of charging a melting furnace that contains a molten bath, which comprises supplying finely divided batch material thereto through a submerged path leading from the surface of the bath to points below said surface, the path being in spaced relation to the vertical walls of the furnace.

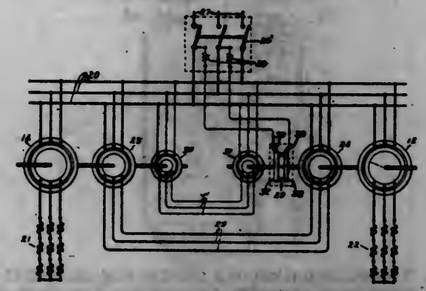
2. The combination with a melting furnace adapted to contain a molten bath, of a charging conduit for finely divided batch material, disposed above the bath and having its discharge end disposed adjacent to the surface of the bath and in horizontally-spaced relation to the vertical walls of the furnace.

1,922,828
METHOD OF MAKING SCREENS
Samuel Blaine Stine, Osceola Mills, Pa.
Application May 23, 1932. Serial No. 613,021
9 Claims. (Cl. 29—163.5)



3. The method of forming screens, which comprises forming laterally-spaced slots in a metal plate, introducing spacing strips into said slots, compressing the plate in a direction transversely of the slots and parallel to the plane of the plate, with sufficient force to displace the unslotted areas at the ends of the slots, and removing the said strips.

1,922,829
GATE HOISTING SYSTEM
Hans Tengström, Berlin-Steglitz, Germany, assignor to General Electric Company, a Corporation of New York
Application January 20, 1931, Serial No. 510,017, and in Germany January 27, 1930
2 Claims. (Cl. 172—293)



1. A gate hoisting system for canal locks and the like comprising a pair of main driving motors mounted on separate shafts for hoisting the opposite ends of the gate, a source of power for said motors, a switching device for connecting said motors with said source, a contact device having a pair of cooperating members arranged in contact with each other, means for driving one of said members synchronously with one of said motors, and means comprising a pair of alternating current motors having their secondaries interconnected for driving the other of said members synchronously with the other of said main motors and means comprising a control circuit including said contact members for opening said switching device to disconnect said main motors from said source upon the occurrence of a predetermined angular relationship between the rotors of said main motors.

1,922,830
TURBIDIMETER
Wayne D. Staley, Moline, Ill., assignor, by mesne assignments, to Parr Instrument Company, Moline, Ill., a Corporation of Illinois
Application January 19, 1931. Serial No. 509,594
3 Claims. (Cl. 88—14)



1. A turbidimeter comprising a case, an opaque open-top liquid container within said case, with a flat glass bottom located a short distance from the bottom of said case, an erect incandescent bulb mounted beneath said glass bottom, means for regulating the voltage impressed on the filament of said bulb, means inside said container comprising an axially movable open-top opaque tube with a flat glass bottom for varying the depth of liquid through which the incandescent filament of said bulb is to be observed, and means comprising a second opaque tube mounted in axial alignment with and independently of said first tube to keep the distance between said filament and the eye of the observer substantially constant during the manipulation of said first tube.

1,922,831
FOUNTAIN PEN
George Stewart Vivian, Norbury, London, England, assignor of one-half to T. B. Ford Limited, Buckinghamshire, England
Application November 13, 1931, Serial No. 574,826, and in Great Britain July 11, 1931
11 Claims. (Cl. 120—49)



1. In a fountain pen, a reservoir, a nib connected with said reservoir, a sheath slidably accommodating said reservoir, a safety cap adapted to be applied over the nib, an ink outflow passage from the reservoir to the nib, a valve adapted upon application of said cap over the nib to automatically close said passage, a rod carrying said valve and slidable through the upper end of the reservoir, spring means operating on said rod to maintain the valve in the open position, a piston in said reservoir, abutments on said rod adapted to engage opposite sides of said piston for sliding the piston backwards and forwards in the reservoir to effect a filling operation, the nib receiving end of the reservoir projecting beyond the lower end of the said sheath and the said cap, said safety cap being screwed on to the said sheath and being provided with an internal abutment adapted to engage the nib receiving end of the reservoir so as to effect said relative movement.

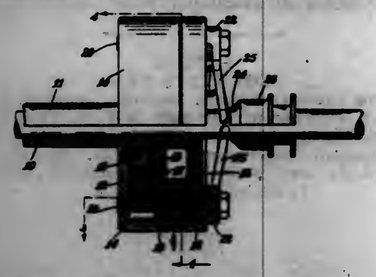
1,922,832
PROCESS OF PURIFYING TECHNICAL SODIUM METASILICATE HYDRATES
Leon R. Westbrook, Cleveland Heights, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware
No Drawing. Application October 25, 1932
Serial No. 639,581
5 Claims. (Cl. 23—110)

1. In a process of purifying a technical, crystalline sodium metasilicate hydrate contaminated with free caustic alkali, the step of transforming said free alkali into a sodium metasilicate hydrate.

1,922,833
CLUTCH
Alfred Herman Webbe, Chicago, Ill.
Application July 20, 1932. Serial No. 627,173
2 Claims. (Cl. 192—68)

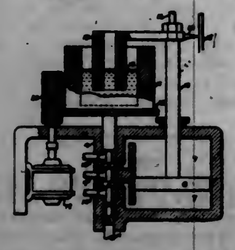
1. In a clutch of the class described a shaft, a connecting member rotatably mounted on said shaft, a friction clutch disk rigidly connected

with said connecting member, a second friction member adjacent the friction disc, an actuating plate arranged adjacent the friction disc and opposite the second friction member, a carrier rigidly mounted on said shaft, a plurality of lugs on the actuating plate, a plurality of guide sleeves on the carrier, each lug slidably fitting in the corresponding guide sleeve, a plug rotatably mounted in each of said guide sleeves, a finger on each plug extending toward the shaft, a cylin-



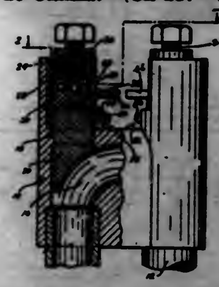
der slidably mounted on the shaft and adapted to engage the fingers and thereby to impart rotary movement to the plugs, corresponding inclined planes on the adjacent surfaces of the plugs and the lugs, a plurality of bolts extending through the second friction member, the friction disc, the lug and the plug but permitting sliding movement to the friction disc, and the actuating plate, and a partial rotary movement to the plugs, and a plurality of springs arranged between the second friction member and the actuating plate.

1,922,834
PRESSURE MEASURING DEVICE
Joseph C. Albright, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a Corporation of Delaware
Application November 26, 1930. Serial No. 496,374. 11 Claims. (Cl. 73—111)



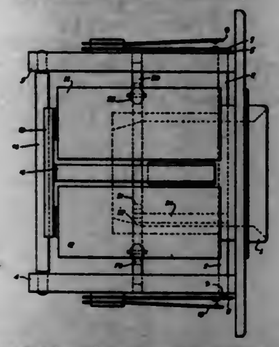
7. In a pressure measuring device, means movable in response to variations in the pressure to be measured, said means comprising a pilot; a pilot casing, a source of hydraulic fluid, said hydraulic fluid available at said pilot casing, a cylinder, a piston cooperating therein, said pilot arranged to control the passage of said hydraulic fluid to said cylinder, variable counterbalancing means for said first-named means comprising two movable members, one of said members having a chamber, a liquid in the chamber, the other of said members comprising a displacer adapted to depend into said liquid, whereby the buoyant effect of said displacer submerged a variable amount in said liquid effects a varying counterbalancing of the pressure, one of said members movable with said first-named means, the other of said members movable with said piston.

1,922,835
PLUG CLOSURE
Wilbur H. Armacost, New York, N. Y., and Ralph M. Swartz, Bogota, N. J., assignors to The Superheater Company, New York, N. Y.
Application August 29, 1930. Serial No. 478,604. 10 Claims. (Cl. 137—76)



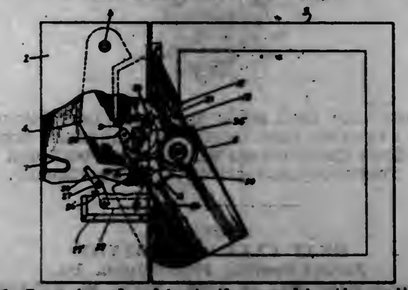
1. The combination of a closure and an operating apparatus therefor comprising two helical forcing means adapted to act in series against said closure and one of said means having a greater diameter than the other and both having an angle of inclination less than the angle of friction for the materials of which they are made, and the parts of the combination being constructed and arranged so that the one of said means of less diameter can exert pressure on the closure irrespective of the angular position of the other of said means.

1,922,836
PRINTING CLOCK
Constant Battegay, Levallois-Perret, France, assignor to Societe Anonyme des Ateliers Brillie Freres, Levallois-Perret, Seine, France, a Corporation of France
Application May 22, 1931, Serial No. 539,313, and in France June 6, 1930. 8 Claims. (Cl. 234—43)



1. An apparatus for recording on a card the beginning and end of an intervening period of time comprising a card-holder, two uprights, means for mounting the card-holder to horizontally slide along said uprights, springs urging the holder back into its mean position, a circuit, means whereby the holder closes said circuit in its outermost positions, a vertical electromagnet in said circuit, an armature adapted to be raised thereby when the electromagnet is excited, a hammer yieldingly carried by the armature in front of the card in the holder, a date recording device adapted to record the date vertically on the card on the side opposed to the hammer and means controlling said date-recording device.
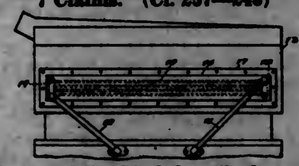
1,922,837
FEED STOP FOR TOWEL CABINETS
Rudolph G. Birr and Albert C. Grunwald, Chicago, Ill., assignors to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah
Application December 5, 1929. Serial No. 411,867. 13 Claims. (Cl. 312—38)



1. In a towel cabinet, the combination with a towel feeding instrumentality, of means for normally locking it against movement, a member adapted to engage said locking means when moved in one direction and positively move it to a release position said member being movable in the opposite direction without affecting such releasing or locking actions, a release device adapted to be actuated by the towel user for operating said member, said instrumentality having means for positively returning said locking means to its normal locking position should the operator hold said release device in its release position.

10. A towel cabinet comprising a casing and a housing thereon, a release lever carried by said casing within said housing and having an operating member, an inner section for said cabinet having an outward movement with respect thereto, towel feed devices carried by said inner section and a feed stop mechanism for said devices mounted in said inner section and normally adapted to be actuated by said release lever, said stop mechanism being movable with said inner section out of the path of said release lever.

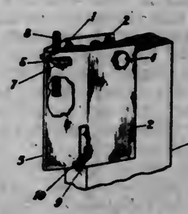
1,922,838
HEAT EXCHANGE DEVICE
Otto A. Bessert, Racine, Wis., assignor to Modine Manufacturing Company, Racine, Wis., a Corporation of Wisconsin
Application May 14, 1931. Serial No. 537,327. 7 Claims. (Cl. 257—248)



1. A device of the kind described comprised of a tube formed at intervals of its length to provide passages arranged at an angle to each other, each of said passages having an inwardly projecting angularly disposed fluid engaging portion.

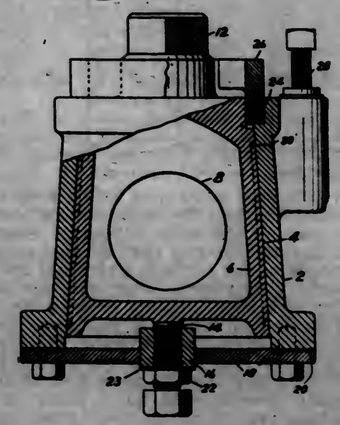
1,922,839
BATHTUB SUPPORT
Frank G. Bretz, Kohler, Wis.
Application April 29, 1932. Serial No. 608,246. 3 Claims. (Cl. 4—173)

1. In a bath tub support, the combination of a bracket formed from a single piece of sheet metal and comprising rearwardly extending portions adapted to overlie a stud and a forwardly extending portion, means for attaching said bracket to a stud, slots in said forwardly extending portion, a bar positioned in said slots,



an adjusting screw threaded in said bar, slots adjacent the juncture of said forwardly extending portion and said rearwardly extending portions and a second bar positioned in said slots and adapted to abut said stud.

1,922,840
PLUG VALVE
Frank A. Browne, Wayne, Pa., assignor to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia
Application February 17, 1930. Serial No. 429,046. 10 Claims. (Cl. 251—112)



2. A valve comprising a casing having a seat therein, a plug rotatably supported in operative relation to the seat, a flexible plate carried by the casing, and an adjustable screw carried by the plate and bearing upon the plug, said plate closing the end of the casing against leakage.

1,922,841
PROCESS OF MANUFACTURING FISH LURE AND FISH LURE MADE THEREBY
Earl Cooley, Trinidad, Colo.
Application June 13, 1931. Serial No. 544,132. 13 Claims. (Cl. 43—42)

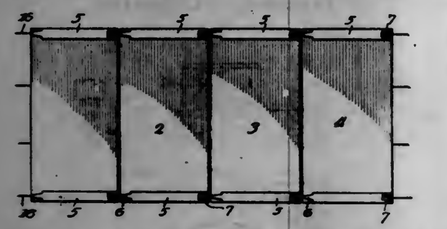
1. The process of manufacturing a fish lure comprising rolling heated gum rubber into the

form and shape of an angle worm, wrapping, looping and tying the worm upon a fish hook, and



treating the assembled worm and hook with anise oil.

1,922,842
WIREBOUND BOX BLANK
Arthur F. Durand, Ravinia, Ill., assignor to Saranac Patents Holding Company, Benton Harbor, Mich., a Corporation of Michigan
Application December 5, 1930. Serial No. 500,164
6 Claims. (Cl. 217—12)



1. A reinforcing wood cleat for boxes or crates, formed to strengthen the corners of the box, having the grain of the wood extending lengthwise thereof, characterized by the fact that said cleat has a tongue at one end and a notch at the other end thereof, said tongue being in effect tapered toward its end, longitudinally of the grain of the cleat, whereby the tongue is thicker at its base than at the extreme end thereof, when viewed from above, but is of uniform width when viewed from the side, and has the same area at the top and bottom thereof, said notch being in effect tapered transversely of the cleat, from the bottom of the cleat toward the top thereof, crosswise of the grain, whereby a plurality of cleats of this formation will interlock at their ends, at the corners of the box, thereby to reduce the danger of splitting of the cleats when the box is dropped or roughly handled.

1,922,843
CONDENSER
Raymond N. Ehrhart, Pittsburgh, Pa.
Application October 2, 1930. Serial No. 485,846
7 Claims. (Cl. 257—42)

1. A condenser comprising a shell, tube sheets, inlet and outlet water boxes, tubes within the shell extending between the tube sheets and connecting the water boxes, partitioning means in the shell providing condensing compartments of unequal condensing surfaces, a residual condenser and conduits connecting each compartment to the residual condenser, said conduits having their discharge ends in free communi-



cation with each other and being proportioned so as to cause substantially equal pressure drops for flows therethrough which are proportional to the condensing surfaces of the compartments.

1,922,844
HEAT EXCHANGE DEVICE
Joshua Epstein, Philadelphia, Pa.
Application May 14, 1930. Serial No. 452,284
2 Claims. (Cl. 257—228)



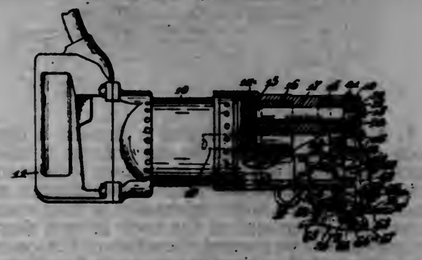
1. An evaporator consisting of a shell, a pan member for holding a substance to be treated, the said pan member terminating in a funnel outlet for the vapor, a chamber formed between the outer walls of the said funnel outlet of the said pan member and the said shell; one or more units of plural, equal, cooperating and equal slanting coils mounted in the said pan member for delivering a heat exchange fluid to the matter to be treated at an equal temperature for all points in the same horizontal plane, the said coils in any one unit having their inlets in the same plane, their outlets in the same plane and their inlets and outlets equally spaced around the circumference of the imaginary cylinder around which the coils are wound; and a condenser for condensing the fluids distilled from the substance being treated, the said condenser consisting of a baffle member placed above the mouth of the said funnel having a concave bottom plate the edges of the said plate terminating beyond the edges of the said pan outlet, means for supplying a cooling fluid to the said baffle member, a perforated plate mounted above the edges of the said concave bottom baffle member, the said concave member, the said perforated plate and the said funnel outlet combining to form a condensation chamber and means within the said chamber and below the top of the said outlet for constricting the area of the said condensation chamber; and a pump outlet formed in the said shell for permitting the condensed liquid to be drawn off.

1,922,845
TOWEL CABINET
Ole J. Flack, Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah
Application October 29, 1930. Serial No. 491,953
27 Claims. (Cl. 312—38)



1. In a towel cabinet, a clean towel delivering means adapted to dispense a supply of clean towel, a soiled towel winding means for taking up the soiled towel and mechanism whereby said winding means is prevented from operatively engaging the soiled towel and is thereby rendered temporarily inoperative to wind up the soiled towel until a loop of the desired length has been formed between said delivering and winding means.

1,922,846
MOTOR-OPERATED SHEAR
Charles B. Gray, Millbourne, Pa.
Application June 25, 1930. Serial No. 463,613
1 Claim. (Cl. 164—47)



In a motor-operated portable hand shear, a body member provided with a guideway opening through a side surface thereof, a spiral element integral with and springing rearwardly from the lower end of the body member and having the inside edge of its forward portion extending closely adjacent to the plane of said side surface, said spiral element, for at least the major portion of its length, tapering in cross section from the outer edge to the inner edge thereof and the upper surface of the forward portion being inclined downwardly and forwardly with respect to the guideway and also being inclined downwardly and laterally from said side surface and the guideway, a channel seat provided at the upper side of said forward portion and extending transversely of the guideway, a fixed blade fitting the seat and having its upper surface flush with the upper surface of the spiral element, said fixed blade having a cutting edge at its inner end and at its upper surface, a reciprocatory blade fitting the guideway and having its lower end bevelled to provide a cutting edge at the surface thereof adjacent to the fixed blade, the fixed blade, due to the inclination of the upper surface of said forward portion, being inclined forwardly and downwardly with respect to the reciprocatory blade and the bevelled edge of the reciprocatory blade being inclined forwardly and upwardly with respect to the fixed blade to provide the cutting region of the blades adjacent to the rear side edges thereof, the bottom face of the body member and at least the portion of the spiral element adjacent thereto and the top face of said forward portion diverging forwardly from the rearmost portion of the inside edge of the spiral element disposed closely adjacent to said cutting region to define, with the forwardly divergent space between the blade cutting edges, an entrance space for material to be cut, said body member having a recess extending at least part way therearound and adjacent to the spiral element with one end of the recess disposed closely adjacent to the cutting region of the blades, whereby short radius cuts may be made in either direction, the upper surface of the spiral element at the fixed blade side of the cutting region being inclined outwardly and downwardly and the under surface of the spiral element and the body member at the other side of the cutting region being inclined outwardly and upwardly, whereby contact with a sheet being cut is reduced in order to minimize drag, means cooperating with the body member to retain the reciprocatory blade in the guideway, means cooperating with the end of the reciprocatory blade remote from the cutting end for reciprocating it, and means for retaining the fixed blade in place with respect to the seat and providing for adjustment thereof relatively to the reciprocatory blade.

1,922,847
PROCESS OF METAL DEPOSITION AND PRODUCT THEREOF
James B. Gremagle, Baltimore, Md., assignor of one-half to William W. Varney, Baltimore, Md., and one-half to Universal Alloys, Incorporated, Baltimore, Md., a Corporation of Maryland
No Drawing. Application March 1, 1930
Serial No. 432,566
3 Claims. (Cl. 204—1)

1. The process of forming a solution of tantalum content for use in the process of claim 2 consisting of treating tantalum chloride ($TaCl_5$) in a paste with carbon heated to a red heat, and while so heated contacting chlorine gas therewith, then dissolving the same in an acetonitrile bath whereby a solution of tantalum is obtained.

1,922,848
EXHAUST MUFFLER FOR INTERNAL COMBUSTION ENGINES
Bertron G. Harley, Saco, Maine, assignor to Edna B. Harley, Saco, Maine
Application December 10, 1929
Serial No. 412,981
7 Claims. (Cl. 137—160)



1. In combination with the end of a internal combustion engine exhaust pipe, an inserted mem-

ber consisting of a flaring thimble having a slotted cylindric base flange fixed in the pipe and with its apex toward the exhaust approach and having a wall aperture having an inwardly disposed baffle edge spirally directive of the gases within the thimble, said thimble having a vent axially of the gas vortex within the flaring thimble.

6. In combination in a boat, an internal combustion engine exhaust pipe having an outlet end, gas deflecting muffling means insertable into said outlet end of said pipe, an exhaust deflector associated with said outlet end of said pipe for preventing splash, and means for supporting said muffling means from said deflector whereby the muffling means and deflector can be installed in a boat.

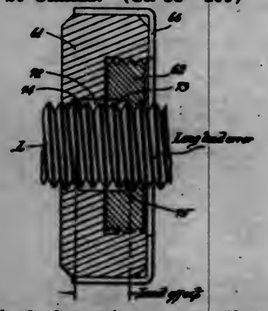
1,922,849

GAUGING OF SCREW THREADS

James Hartness, Springfield, Vt.

Application June 21, 1928. Serial No. 287,137

20 Claims. (Cl. 33—199)



4. A method of gauging a screw thread, which comprises engaging substantially spaced turns only of said thread with a pair of threaded members, relatively rotating said members as far as possible in both directions while in engagement with the thread to be tested and while so restricted as to freedom of relative movement that permitted relative movement thereof brings their gauging threads into binding engagement with the thread to be tested, and noting the amounts of possible relative rotation.

18. A screw thread gauge comprising a plurality of axially spaced loosely fitting thread engaging elements adapted to engage approximately single spaced turns only of a thread to be tested and cooperating screw multiplying means to control the relative axial movement of said elements, said elements having thereon means to indicate the amount of axial slack between said elements and the thread to be tested.

1,922,850

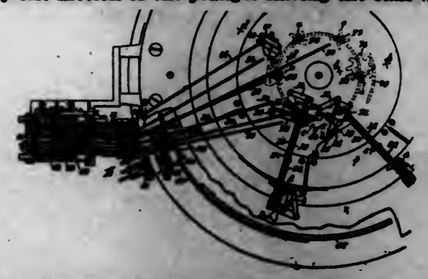
SIX-THREAD STRIPING MACHINE

Adolf H. Henne and David M. Clark, Worcester, Mass., assignors to Edward T. Esty and James A. Crotty, Worcester, Mass.

Application March 28, 1932. Serial No. 601,534

13 Claims. (Cl. 66—19)

13. In a knitting machine, the combination of a pair of cams for controlling the thread change, a roller adapted to rest on said cams, a pattern card mechanism, means connected with the roller for controlling the pattern card mechanism, a pair of plungers, one plunger having a latch, a lever connected with said roll for operating it, said latch being adapted to move the lever over when the plunger on which the latch is mounted is retracted to move the roll from one cam to the other, said plunger having a pivoted portion on which the latch is located, the other plunger having a cam, a reciprocable box having a guide for the pivoted portion of one plunger and provided with an arm extending downwardly into the path of said cam on the plunger, whereby one motion of the plunger having the cam will



operate on said arm to raise the box and the pivoted section of the other plunger so as to move the latch up out of operative position, and a lever for moving the roll having a projection which the latch will engage when moved downwardly again for moving the lever and roller.

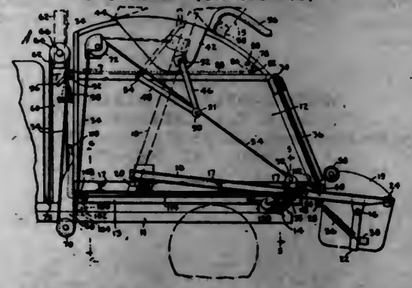
1,922,851

SELF-LOADING DUMP-BODY

William S. Howard, New York, N. Y., assignor to R. Nicoll & Company, Incorporated, New York, N. Y., a Corporation of New York

Application April 30, 1932. Serial No. 608,495

6 Claims. (Cl. 214—78)



1. A dump truck including a chassis; a dump body pivotally mounted on the chassis; a loader mounted on the body and operatable to raise material to the top of the body and discharge said material into the body; releasable locking means to prevent movement of the body toward dumping position or to prevent operation of the loader; a hoist mounted on the chassis; and a flexible tension member connecting the hoist to both the body and the loader, so that the hoist will operate either the body or the loader, whichever is not locked against operation.

1,922,852

APPARATUS FOR BRANDING ARTICLES

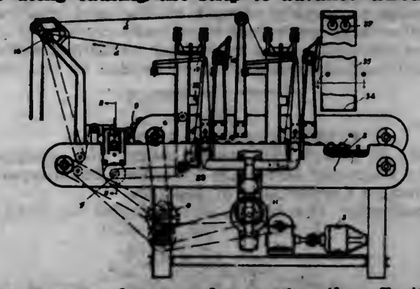
Walter E. Humphrey, Jeannette, Pa., assignor to Pennsylvania Rubber Company, a Corporation of Pennsylvania

Application April 27, 1932. Serial No. 607,795

5 Claims. (Cl. 101—44)

1. In branding apparatus a branding press, means for advancing a succession of articles to the press, means for sustaining a brand-bearing strip with a portion thereof extending through the press, means for developing periodically and in synchronism with the operation of the article-

advancing means a bight in such strip and in so doing causing the strip to advance through



the press, and means for varying the effective range of such bight-developing means.

1,922,853

PROCESS FOR THE ELECTROLYTIC DEPOSITION OF CHROMIUM

Hermann Kissel, Leipzig, Germany, assignor, by mesne assignments, to United Chromium, Inc., New York, N. Y.

No Drawing. Application January 26, 1928, Serial No. 249,772, and in Germany December 1, 1927. Renewed March 1, 1932

20 Claims. (Cl. 204—1)

1. A process for the electrolytic deposition of chromium in ductile firmly adherent deposits, comprising passing an electric current through a bath containing a solution of a trivalent chromium compound maintained as nearly neutral as possible and to which are also added substances which retain the basic compounds of the metal in solution.

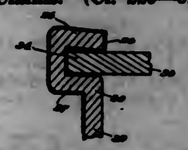
1,922,854

CARDBOARD BOX

Adolph Klein, New York, N. Y.

Application April 15, 1932. Serial No. 605,402

6 Claims. (Cl. 229—5.5)



1. A knock-down box structure including a side wall-forming element consisting of a paper board strip having a corner thereof cut out, the longitudinal edge of the strip forming the corner being deformed to provide a groove, the walls of the groove consisting of portions biased toward each other to provide a resiliently engaging member, the end edges of the strip being engageable without hindrance from the grooved edge formation.

1,922,855

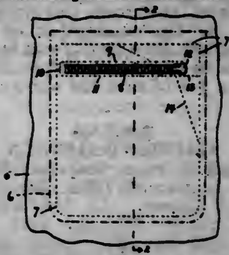
POCKET FOR BATHING AND SPORTING GARMENTS

Peter N. Madsen, Ardmore, Pa.

Application April 26, 1932. Serial No. 607,951

4 Claims. (Cl. 2—254)

1. A pocket structure including a garment wall, pocket material stitched to said garment wall, the latter having a slit therein wholly within the boundaries of said pocket material, a row of stitches extending transversely from the inner end of said entrance to the adjacent side of the pocket, a diagonal row of stitches extending from a point contiguous said inner end of the entrance in a generally downward direction to said adjacent side of the pocket, said rows of stitches securing parts of the pocket material and garment



fabric together, and a slide fastener attached to the edges of the slit for closing the pocket entrance.

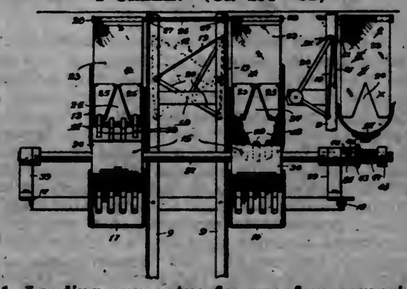
1,922,856

LOADING APPARATUS FOR PROOFERS

Fred Marasse, Joliet, Ill., assignor to Union Machinery Company, Joliet, Ill., a Corporation of Illinois

Application March 28, 1932. Serial No. 601,621

4 Claims. (Cl. 198—31)



1. Loading apparatus for proofers comprising in combination a distributor, a pair of inclined chutes into which lumps of dough are alternately discharged from said distributor, and means depending crosswise in said chutes, said means having spaced end parts for deflecting the lumps of dough to the middle portions thereof.

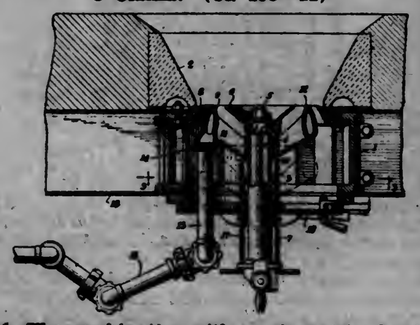
1,922,857

COMBINED LIQUID FUEL AND GAS BURNER

Harry Meacham, Teaneck, N. J., assignor to Todd Dry Dock, Engineering & Repair Corporation, Brooklyn, N. Y.

Application January 2, 1931. Serial No. 506,087

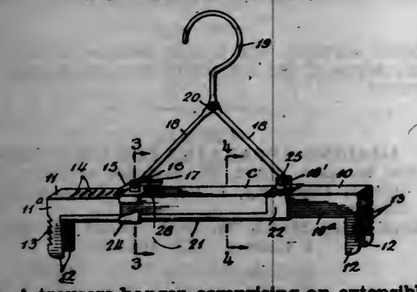
8 Claims. (Cl. 158—11)



1. The combination with an air register having an opening adapted to co-act with a furnace open-

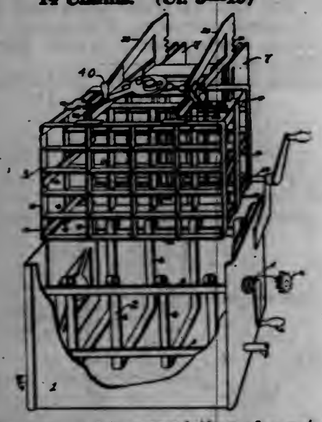
ing, of a liquid fuel burner disposed axially in said register, a plurality of curved vanes forming an air cone and mounted on said burner to be movable therealong, said cone serving to direct the flow of air for the combustion of fuel issuing from said burner, an annular gas burner carried by said vanes, to be movable therewith, and means for supplying gas to said gas burner.

1,922,858
GARMENT HANGER
Ralph H. Page, Scarsdale, N. Y.
Application January 8, 1932. Serial No. 585,458
3 Claims. (Cl. 223—67)



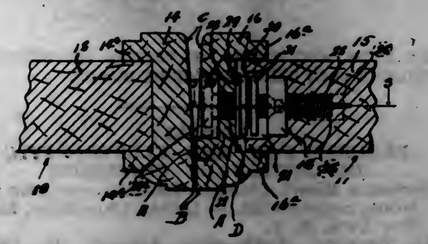
1. A trousers hanger comprising an extensible member consisting of a plurality of sections slidably connected with each other with sufficient clearance to prevent binding of said sections, suspending members carried by said sections adapted to extend into the legs of the trousers and to be adjusted into suspending engagement therewith by slidably shifting said sections relatively to each other, co-operating means on said sections whereby the latter are releasably fixed in adjusted positions to maintain said suspending engagement without exerting an objectionable stretching tension on said trousers legs, and means connected with the sections of said extensible member and adapted to automatically accommodate itself to the adjustments thereof for suspending said hanger and trousers without disturbing said adjustment.

1,922,859
DYEING MACHINE
Joseph Portnoy, Philadelphia, Pa.
Application January 27, 1928. Serial No. 249,898
14 Claims. (Cl. 8—19)



1. A dyeing machine consisting of a vat, a carrier rotatably mounted in said vat, a multicell carrier mounted for movement into and out of operative relation with the said first carrier, a holder removably carried by the said multicell carrier and individual containers carried by the said holder, the said individual containers adapted to hold the material to be dyed.

1,922,860
COMPENSATING ASTRAGAL
John F. Powell, St. Louis County, Mo., assignor to Vonnegut Hardware Company, Indianapolis, Ind., a Corporation of Indiana
Application October 16, 1931. Serial No. 569,153
1 Claim. (Cl. 20—35)



In a door construction, the combination with a wooden stile having a plurality of spaced inwardly extending pockets formed in its outer edge, of an astragal matable with the said outer edge and perforated with a series of perforations registrable with the stile pockets, a corresponding plurality of metal cups embedded in the outer ends of the astragal perforations, a corresponding plurality of screws journalled in the astragal perforations and axially fixed relative to the astragal, a corresponding plurality of threaded elements one mounted in each of the stile pockets and adapted to mate with the threaded inner ends of the screws, each of said screws having a non-circular outer end of less diameter than the internal diameter of the adjacent cup and an axial extent no greater than the cup depth.

1,922,861
BROADCAST RECEIVER APPARATUS
Harold Y. Pruedergast, Brooklyn, N. Y.
Application May 21, 1930. Serial No. 454,324
15 Claims. (Cl. 250—40)

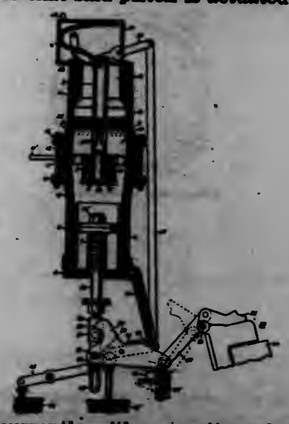


1. In a broadcast receiver apparatus including a tunable means; a support; tuning control means on said support; means for operatively connecting the tuning control means to the tunable means; and means permitting the support and tuning control means to swing from a storage position to an open service position.

1,922,862
ELECTRICAL SWITCHING APPARATUS
David C. Prince, Swarthmore, Pa., assignor to General Electric Company, a Corporation of New York
Application August 27, 1931. Serial No. 559,729
13 Claims. (Cl. 200—150)

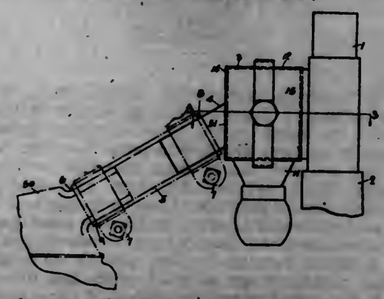
1. A circuit interrupter comprising relatively movable coating contacts, one of said contacts

comprising a tubular member, means for separating said contacts to form a short gap, a piston for producing a unidirectional flow of insulating liquid toward said tubular contact member, means correlating the operation of said piston and said contacts so that said piston is actuated substan-



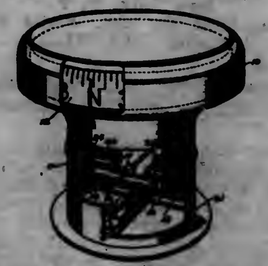
tially concurrently with separation of said contacts, and means confining said insulating liquid within the said gap and directing the same radially across the arc gap and into said tubular contact member so that the arc is entrapped and the arc products forced by said liquid into said tubular contact member at high velocity.

1,922,863
RADIATOR AND FILTER THEREFOR
Joseph Rendelman and Walter Nelsen Holstrum, Philadelphia, Pa., assignors to said Rendelman and said Holstrum, as Trustees
Application January 8, 1929. Serial No. 331,022
6 Claims. (Cl. 257—125)



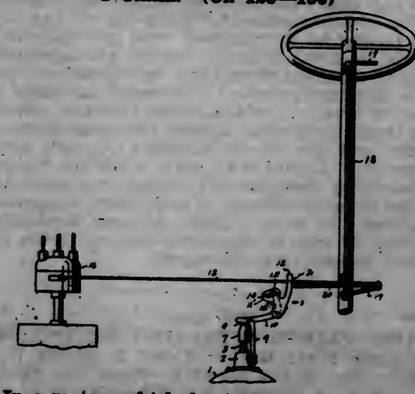
2. As an article of manufacture a radiator for use as a member in a fluid system cooling device for automotive vehicles consisting of a plurality of connected hollow members forming a closed circuit for the flow of the cooling fluid, the said radiator consisting of a main body portion and a filter device for the fluid system cooling device externally carried by the said radiator and forming an integral part of the said radiator; the said filter device consisting of a main body portion terminating in an externally threaded collar, a cup portion having an internally threaded collar formed on the free end thereof, the said threads on the said cup collar being adapted to cooperate with the said threads on the said body portion collar for attaching the said cup to the said body portion, a filter element removably carried by the said main body portion for impounding foreign substances carried by the said fluid, a removable plate carried by the said main body portion whereby the said filter element is adapted to be removed from and inserted into the said filter device, and locking means carried by the said filter device for locking the said removable plate in position.

1,922,864
COMPASS
Thomas R. Rhea, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application April 19, 1928. Serial No. 356,532
5 Claims. (Cl. 33—225)



1. In a compass, a supporting guideway, a carriage slidably mounted upon said guideway, a pair of corrective magnets secured to said carriage with their magnetic axes in substantial alignment and with a pole of one of said magnets adjacent a pole of like polarity of the other of said magnets, and manually operated means for displacing said carriage along said guideway.

1,922,865
STARTER FOR INTERNAL COMBUSTION MOTORS
Robert T. Ronaldson, Beaumont, Tex., assignor to Upstarter Company, a Corporation of Texas
Application May 26, 1930, Serial No. 455,641, and in Canada April 2, 1930
1 Claim. (Cl. 123—186)



In a motor vehicle having an electric starting motor, an internal combustion motor geared with the starting motor, a spark controlling timer and mechanism controlling the timer to advance or retard the spark; a switch for completing or breaking an electrical circuit through the starting motor, means normally holding the switch open, a timer shaft, an arm fixed thereto, a link operatively connected with said arm and with the

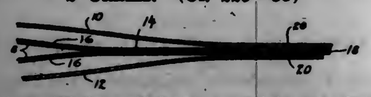
timer through which the timer may be adjusted to advance and retard the spark, a pivotally mounted adjustable lever, one end of which is arranged to operate said switch, a push bar one end of which is attached to said arm and the other end of which is overturned forming an abutment which is movable with said link and through which the link works, said abutment being operable against the other end of the lever to effect the closing of the switch when the timer is moved to position to retard the spark.

1,922,866
ROTARY AIRFOIL
Sandor Rosenberg and Alexander Klemin, New York, N. Y.
Application April 22, 1932. Serial No. 606,841
5 Claims. (Cl. 244—19)



1. A rotor having airfoils composed of interengaging, longitudinally slidable sections, to be capable of expansion under the influence of centrifugal force, said airfoils being revoluble about their longitudinal axes, to modify their pitch settings, control means for contracting said airfoils, and means actuated by said control means for coordinating the rotation of said airfoils respectively with their contracting and expanding operations.

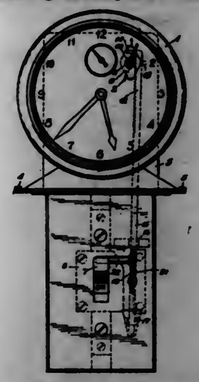
1,922,867
MULTIPLE WALL WATERPROOF BAG
John A. Rosmait, Manistee, Mich.
Application April 25, 1932. Serial No. 607,345
2 Claims. (Cl. 229—55)



1. A multiple wall bag comprising a plurality of tubular paper wall plies, each ply being adhesively secured to the adjacent ply at the ends and said plies further adhesively secured together at the ends to form end closures for the bag, said bag having an intermediate wall ply comprising two laminations of papers coated and adhesively secured together along their juxtaposed surfaces by a moisture resistant compound providing an interior layer of waterproofing material extending from the interior of said two laminations of paper into the fibrous structure of each paper lamination toward both outer sides but without appreciably changing the normal characteristics of the exterior surfaces of each paper lamination whereby the outer surface of each lamination of said ply may be adhesively secured to the adjacent paper ply as described.

1,922,868
TIME SWITCH OPERATING MECHANISM
Benjamin Parks Rucker, Upper Montclair, N. J.
Application March 27, 1933. Serial No. 662,944
3 Claims. (Cl. 200—39)

1. A time switch operating mechanism adapted for use in connection with a clock and an electric switch of standard construction, consisting of a frame upon which the clock is removably mounted as a separate unit, a rotatable clutch member mounted upon said frame in position to operatively engage an intermittently controlled rotating part of said clock when in position upon said frame, a pinion attached to and rotatable with said clutch member, a rack operatively engaged with said pinion and forming part of a rod extending downwardly adjacent said switch, a latch pivotally mounted upon the lower end of said rod, and an operating lever fulcrumed in a



mounting attached to the face plate of said switch and positioned with its inner end adapted to be engaged by said latch and its outer end extending through a slot in said switch face plate and adapted to engage the operating lever of said switch.

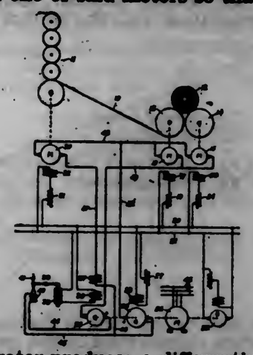
1,922,869
MACHINE FOR NOTCHING STATISTICAL CARDS
Isaac Guy Rumfelt, Hartford, Conn.
Application November 7, 1932. Serial No. 641,519
12 Claims. (Cl. 164—112)



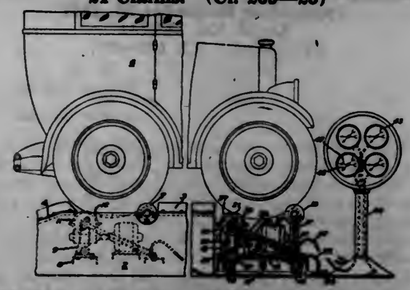
1. A machine for cutting cards which comprises a base, a platen movable toward the base, a block mounted on the base, punches movable vertically in said block, key bars movable horizontally in said block, pins movable vertically in said block between the key bars and the punches, means interposed between the key bars and said pins and adapted to lift the pins toward the punches when the bars are moved inward, and a block carried by the platen, said block having die openings aligned with the punches and a slot communicating with said die openings for receiving the edges of cards.

1,922,870
TENSION CONTROLLING SYSTEM
David R. Shoults, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York
Application March 5, 1932. Serial No. 597,035
4 Claims. (Cl. 242—75)

1. In a variable voltage drive, the combination with a load generator, of a plurality of motors mechanically connected together and arranged to receive power from said load generator, an auxiliary generator having a plurality of field windings, at least one of which is separately excited, driving means for said generators, connections for connecting said auxiliary generator in series with one of said motors so that said auxiliary generator produces a differential or torque between said motors.

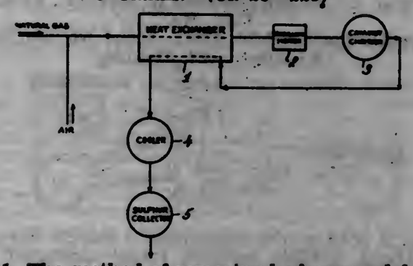


1,922,871
BRAKE TESTING MECHANISM
Charles E. Starr, Whittier, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a Corporation of Delaware
Application August 10, 1927. Serial No. 211,966
21 Claims. (Cl. 265—25)



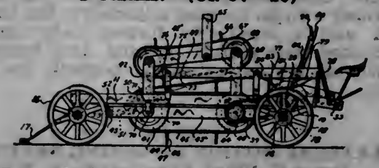
18. In a brake testing machine, a member movable in two directions, means for limiting movement in one direction, means for yieldingly resisting movement in the other direction, a wheel engaging roller journaled on the member, and means for driving the roller.

1,922,872
METHOD OF REMOVING HYDROGEN SULPHIDE FROM NATURAL GAS
Alfred Paul Thompson, Long Island City, N. Y., assignor to General Chemical Company, New York, N. Y., a Corporation of New York
Application December 22, 1927
Serial No. 241,782
5 Claims. (Cl. 23—225)



1. The method of removing hydrogen sulphide from natural gas containing the same which comprises reacting the natural gas with an oxidizing gas in the presence of activated natural bauxite promoted with iron oxide while maintaining the temperature below 275° C. whereby free sulphur is obtained and substantially no decomposition of the valuable constituents of the natural gas other than the hydrogen sulphide occurs, and collecting the sulphur formed.

1,922,873
REVOLVING HARROW AND WEEDER
William Todoruk and Harry Chernoby, Calgary, Alberta, Canada
Application March 23, 1932. Serial No. 600,738
4 Claims. (Cl. 97—10)



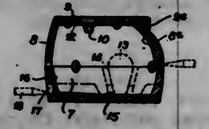
1. In a device of the character described, a wheeled frame, a vertically movable harrow mechanism of the endless belt type associated with the wheeled frame and operative in a horizontal plane, a fixedly mounted runway co-operating to remove weeds and the like from the harrow mechanism, a conveyor co-operatively associated with the runway, a weed receiving pan arranged at the rear of the runway and drive means mounted on the wheeled frame for operating the harrow mechanism.

1,922,874
OPERATING MECHANISM FOR VALVES
Sybren R. Tymstra, Flushing, N. Y., assignor to Semet-Solvay Engineering Corporation, New York, N. Y., a Corporation of New York
Application March 23, 1929. Serial No. 349,381
3 Claims. (Cl. 137—139)



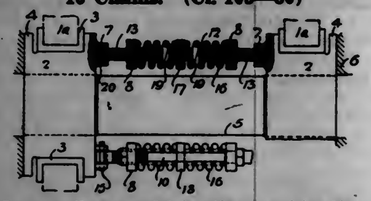
1. In combination, a valve casing, a reciprocable valve plate for opening and closing the valve opening in said casing, a hydraulic cylinder positioned on said casing having its piston rod connected to said plate and a housing on said hydraulic cylinder having a threaded exterior being provided with longitudinal slots and arranged to permit movement of said piston rod therein, an arm connected to said piston rod moving in said slots and a threaded member on said housing arranged to contact with said arm to limit the upward movement of said piston rod.

1,922,875
FLASK FOR DENTAL MOLDS
Otis T. Birdlebough, Yakima, Wash.
Application September 26, 1931
Serial No. 565,260
3 Claims. (Cl. 18—33)



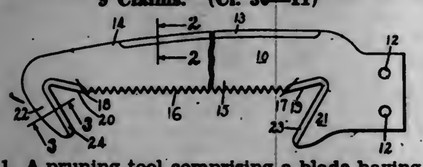
1. A mold flask member having side walls and a bottom wall, a removable plate supported by the bottom wall, the one side wall being provided with an opening adjacent to the bottom wall, and a separately formed gate member positioned across said opening and having a horizontal portion extending beneath the said plate.

1,922,876
LATERAL MOTION RESISTING DEVICE
James G. Blunt, Schenectady, N. Y.
Application April 29, 1931. Serial No. 533,699
16 Claims. (Cl. 105—80)



1. In a railway vehicle, the combination of a main frame; a pair of journal boxes, each having the capacity of lateral movement relative to the frame from a normal position substantially in an inward direction only; and means disposed between and carried by said boxes for resisting lateral thrust of said boxes, one of said boxes serving as a thrust block for said means, while said means resists the thrust of said other box during the relative lateral movement of said other box.

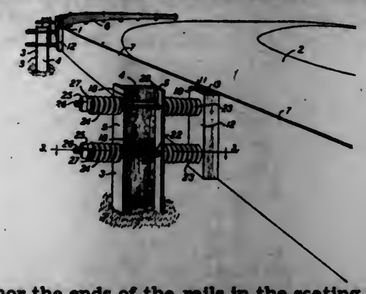
1,922,877
PRUNING TOOL
Robert C. Botsford, New Haven, Conn.
Application January 20, 1932. Serial No. 587,653
9 Claims. (Cl. 30—11)



1. A pruning tool comprising a blade having a series of saw teeth formed on one edge thereof, a knife-like cutting edge upon said blade at each end of said series of saw teeth, and a shoulder extending outwardly from said toothed edge and at each end thereof.

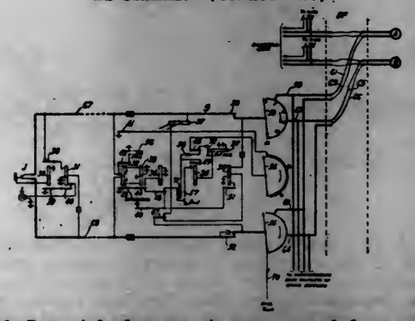
1,922,878
ROAD GUARD MOUNTING
Rudolph B. Boyle, Kansas City, Mo.
Application July 28, 1932. Serial No. 625,397
12 Claims. (Cl. 256—13.1)

1. In apparatus of the character described, a seating member, means for supporting the seating member, rail sections having offset ends housed in the seating member, and a locking member cooperating with the seating member to



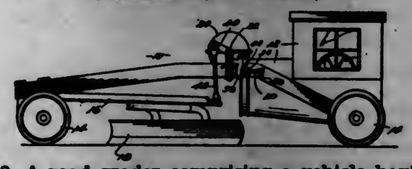
anchor the ends of the rails in the seating member and means countersunk in the locking member for retaining said locking member, offset ends and seating members in assembled condition.

1,922,879
TELEPHONE SYSTEM
John A. Burgener, Hinsdale, Ill., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a Corporation of Delaware
Application December 26, 1931
Serial No. 583,223
14 Claims. (Cl. 179—27)



1. In a telephone system arranged for secretarial service, a switch having access to a subscriber's line, means for setting said switch to select said line, an operator's position, and means in said switch responsive to a call incoming to said line for completing a connection to signal the operator at said position.

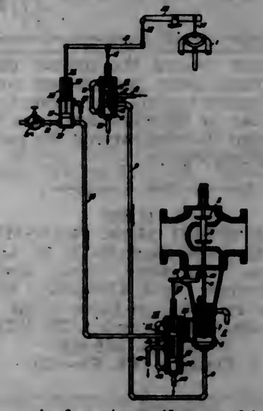
1,922,880
ROAD GRADER
Firman L. Carswell and Otto W. Schmidt, Kansas City, Mo.
Application April 25, 1932. Serial No. 607,247
9 Claims. (Cl. 37—156)



2. A road grader comprising a vehicle having a frame, a blade carrying frame connected at one of its ends to said vehicle frame; an operating shaft carried by said vehicle frame;

means, including a speed reducing gear, connecting said shaft with the free end of said frame; and an over-riding vibration absorber associated with said shaft, whereby the blade carrying frame is secured against accidental movement relative to said vehicle frame.

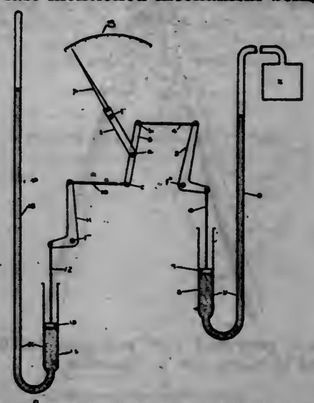
1,922,881
HYDRAULIC CONTROL SYSTEM
Reed J. Caughey, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application February 25, 1932. Serial No. 595,029
3 Claims. (Cl. 121—42)



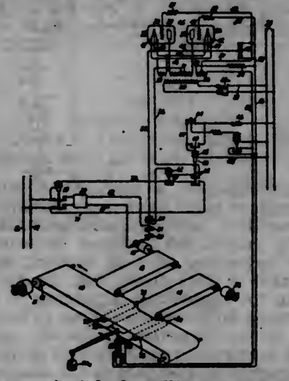
1. In a control system, the combination of a regulated element, a hydraulic motor having a piston connected to the regulated element, a pilot valve for the motor provided at a considerable distance away from the hydraulic motor, a regulating means, a lever mechanism including a floating lever for connecting the regulating means to the pilot valve, and restoring means for the pilot valve including a cylinder, a piston in the cylinder having a stem floatingly connected to the floating lever, a conduit for supplying fluid to the cylinder, a spring counteracting the fluid pressure on the piston, another conduit for discharging fluid from the cylinder and a valve in the other conduit having a stem connected to the hydraulic motor, whereby the valve is automatically moved to change the resistance to the flow of fluid through the conduit in response to movement of the hydraulic motor.

1,922,882
ABSOLUTE PRESSURE RECORDING DEVICE
Victor M. Chatfield, Philadelphia, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey
Application July 11, 1931. Serial No. 550,115
3 Claims. (Cl. 73—31)

3. In a device for measuring absolute pressure the combination including a fixedly pivoted pointer, an equalizing link pivoted between its ends to one end of the pointer, a barometer, a pressure responsive device subject to the pressure to be measured and to atmospheric pressure, mechanism operably connected to the barometer and one end of the equalizing link, similar mechanism operably connected to the atmospheric side of said pressure responsive device and the other end of said equalizing link, both of said mechanism being operated by a change in atmospheric pressure to rotate the equalizing link about its pivotal connection to the pointer without changing the position of the pointer but only the last mentioned mechanism being operated by a change in the pressure to be measured to swing the equalizing link about its pivotal connection to the first mentioned mechanism to thereby move the pointer.



1,922,883
MATERIAL HANDLING SYSTEM
Harry R. Crago, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application June 26, 1930. Serial No. 464,026
15 Claims. (Cl. 83—44)

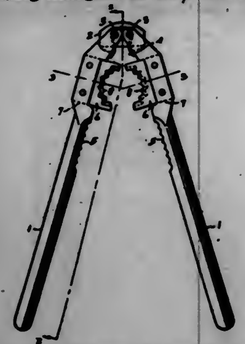


1. In a material handling system having means for conveying a material and means for supplying a second material to said conveying means, means comprising electric discharge apparatus for controlling the rate of supply of said supply means, and means responsive to the instantaneous rate of supply of said first mentioned material on said conveying means for controlling said electric discharge apparatus.

1,922,884
NUT CRACKER
Roy E. De Geiyer, Houston, Tex.
Application March 26, 1931. Serial No. 525,382
2 Claims. (Cl. 146—13)

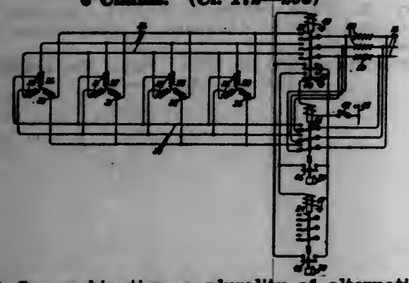
1. An implement of the character described comprising a link, grip handles each having a slot therein and pivotally connected at one end to said link, shear like detachable blades secured in

said slots in said handles and arranged to coact, the confronting margins of said blades being ser-



rated and provided with coacting cutting edges arranged to slide, one by the other.

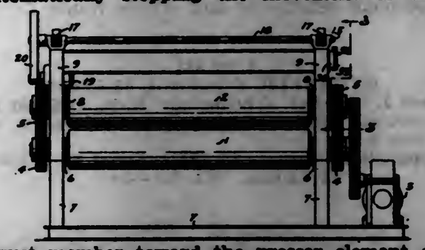
1,922,885
PLURAL MOTOR DRIVE
Walter de Vries, Berlin, Germany, assignor to General Electric Company, a Corporation of New York
Application April 20, 1932, Serial No. 606,502, and in Germany April 21, 1931
6 Claims. (Cl. 172—293)



1. In combination, a plurality of alternating current motors each having a primary winding and a secondary winding, said secondary windings being connected together to provide synchronous operation of said motors, means for starting said motors from rest, means operable at starting for connecting a portion of each primary winding to a voltage source to increase the strength of the magnetic fields of said motors above the normal strength of said fields for continuous operation, and means for connecting the entire primary winding of each of said motors to said source to decrease the field strength of said motors to normal value after a predetermined interval of time.

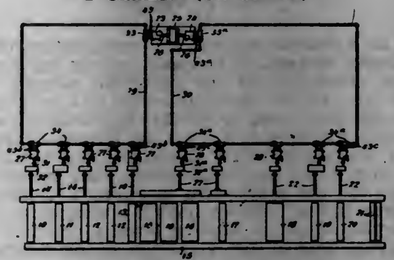
1,922,886
PRESSURE APPLYING MECHANISM
Frank H. Dunbar, Chagrin Falls, Ohio
Application November 28, 1931
Serial No. 577,778
18 Claims. (Cl. 68—32)

1. The combination with a frame having a presser element movably mounted therein, of a power actuated pressure applying mechanism comprising a movable thrust member mounted in the frame for movement toward and away from said presser element, means forming an elastic cushion between the thrust member and presser element, and power transmitting means mounted on the frame for moving the thrust element toward the presser element to apply presser thereto, means controlled by a moving part of the pressure applying mechanism for automatically stopping the movement of the



thrust member toward the presser element at a predetermined point, and means for adjusting the automatic controlling means to stop the thrust member at different distances from the presser element thereby varying the compression of the cushioning means.

1,922,887
VARIABLE SPEED GEAR TRANSMISSION
Arthur L. Ellis, New Rochelle, N. Y., and Daniel R. Francis, Waterbury, Conn., assignors to The Waterbury Tool Company, Waterbury, Conn., a Corporation of Connecticut
Application December 10, 1931
Serial No. 580,000
4 Claims. (Cl. 60—53)

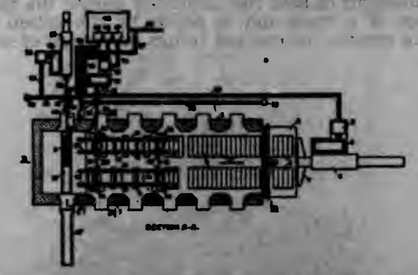


1. A variable speed gear transmission comprising a driving unit, a plurality of driven units connected with each other and with said driving unit in series, means whereby the operation of all of said driven units may be simultaneously adjusted to vary the operation thereof without altering the operative relation of said driven units to each other, and whereby said driven units may be simultaneously arrested without stoppage of the driving unit, and means whereby the operation of individual driven units may be selectively adjusted to independently vary the operative relation thereof with respect to the other driven units, and selectively arrested independently of the other driven units and of the driving unit.

1,922,888
BILLET HANDLING IN CONTINUOUS HEATING FURNACES
William H. Engelberts, Pittsburgh, Pa.
Application February 29, 1932. Serial No. 594,290
5 Claims. (Cl. 263—6)

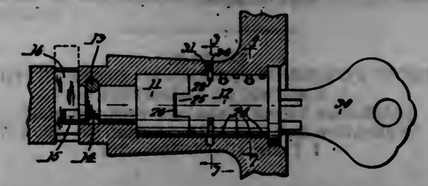
1. In a method for billet handling in continuous heating furnaces by cooperating means, a pushing-in device to charge said furnaces with a plurality of billets at a time, a conveyor adapted to separate said billets and, thereafter,

turn said billets at intervals while moving said billets to the outlet end of said furnaces, and a



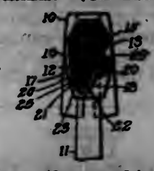
pushing-out device to discharge said billets from said furnaces.

1,922,889
LOCK
Morris Falk, Fitchburg, Mass.
Application October 17, 1928. Serial No. 312,116
2 Claims. (Cl. 70—46)



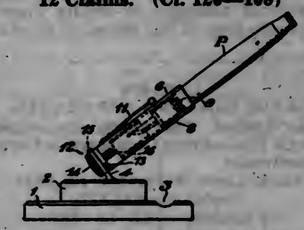
2. A lock combination, comprising a mounting casing having a single diameter bore, a cylindrical adapter rotatably mounted in the inner end portion of the bore and arranged to actuate a lock mechanism, a key controlled cylindrical lock plug insertable endwise in the outer end portion of the same bore, and a longitudinally separable operating connection between the lock plug and the adapter whereby the same are connected as one forming continuations of each other and rotation of the lock plug effected through the medium of a proper key moves the adapter to actuate a lock mechanism connected therewith, said separable connection being readily made and broken by endwise movement of the lock plug towards and away from the adapter.

1,922,890
HAMMER
Richard B. Gevert, Chicago, Ill.
Application October 26, 1932. Serial No. 639,559
4 Claims. (Cl. 145—30)



1. In a hammer the combination of a hammer head and a depending nail supporting member integral therewith, said nail supporting member comprising a spring one end of which is secured in a slot in the depending portion, a right angled groove extending longitudinally in the side of said depending portion and in alignment with the lower edge of the hammer head said groove being constructed to hold the nail firmly in position against a side wall of the depending portion and the lower face of the hammer head with the aid of said spring, said groove terminating in an enlarged metal surrounded aperture adapted to receive any sized nail head, one wall of said aperture constituting the striking face of said depending portion.

1,922,891
FOUNTAIN PEN SUPPORT
Lawrence Griffith, Yonkers, N. Y.
Application November 7, 1932. Serial No. 641,525
12 Claims. (Cl. 120—108)



1. A fountain pen support comprising a supporting member having a slot disposed in an inclined position and open at its upper end, a tubular closure cap for the fountain pen, and attaching means carried by the closed end of said cap and comprising a head and a reduced portion or neck between said head and the closed end of the cap and fitable into said slot through the open upper end thereof to lock the cap positively against endwise displacement and support it positively in a fixed inclined position to serve as a socket to receive and support the fountain pen, said neck being of elongated form in cross section to key it positively in the slot and prevent turning of the supported cap.

1,922,892
DISPLAY RACK
Charles H. Holleman, Akron, Ohio
Application May 31, 1930. Serial No. 458,032
3 Claims. (Cl. 242—55.3)



3. A display rack having three or more upwardly converging, equally spaced corner posts to provide a plurality of upwardly converging sides, a plurality of horizontally disposed parallel straps on each side, said straps secured to said posts, the opposite ends of each strap projecting horizontally therefrom in parallel relation, a supporting rod mounted on said ends and means to rotatably mount a roll of sheet material on said rod.

1,922,893

PROCESS OF MAKING LAMINATED GLASS

James W. Kamerer and Earl L. Fix, New Kensington, Pa., assignors to Duplate Corporation, a Corporation of Delaware

No Drawing. Application January 16, 1932 Serial No. 587,152
3 Claims. (Cl. 49—81)

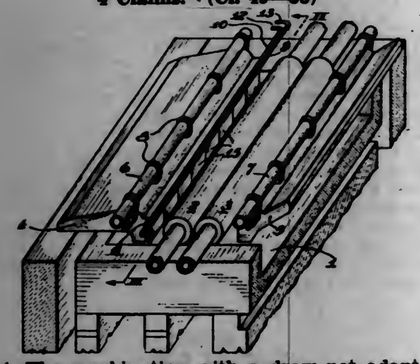
1. A process of making laminated glass, which consists in treating a sheet of cellulose nitrate plastic in an atmosphere controlled as to moisture content for a period of time such as to secure a uniform distribution therethrough of 1.2% to 1.8% of moisture, and then employing a water soluble adhesive to secure glass sheets to the opposite side of the sheet of plastic.

1,922,894

GLASS ROLLING APPARATUS

Walter G. Koupal, Tarentum, Pa., assignor to Pittsburgh Plate Class Company, a Corporation of Pennsylvania

Application November 10, 1932 Serial No. 642,032
4 Claims. (Cl. 49—33)



4. The combination with a draw pot adapted to carry a bath of molten glass with a pair of sizing rolls extending thereacross having their peripheries in the glass and a lip tile above the glass on one side of the rolls, of a cut off means at the front edge of the tile comprising a water cooled pipe extending along the upper edge of the lip tile, and provided with a series of supporting hook members, and a series of metal plates slotted along their upper edges with said hook members extending therethrough and having their lower edges lying at a level intermediate the bottom of the tile and the surface of the glass.

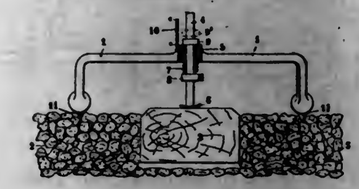
1,922,895

APPARATUS FOR THE LEVELING OF RAILWAYS

Maurice Henri Lemaire, Ermont, France

Application December 13, 1928, Serial No. 325,838, and in France December 13, 1927
2 Claims. (Cl. 33—169)

1. Gauge for measuring the momentary giving way or sinking of a railroad tie under the load of a train, comprising a tripod driven in the ballast bed on both sides of the tie to be observed so as to stand in a fixed position above said tie, a vertical opening in the center of said tripod, an axially movable rod guided in said opening, a spring acting on said rod so as to maintain the lower end of the same in constant contact with the upper surface of the tie to be observed during the passage of a train over said tie, a ring frictionally adjusted on said rod so as to be kept immovable by said tripod during the downward movement of said rod occurring during the passage of a train and to follow by the action of said friction the upward return movement of said rod which occurs after said passage and a vertical graduated scale carried by said tripod so as to permit the reading of the maximum vertical displacement of said ring with respect to the fixed tripod thus obtained.



1,922,896

HIGH POWERED INTERNAL COMBUSTION ENGINE LOCOMOTIVE

Alphonse Lipetz, Saratoga Springs, N. Y.

Application July 27, 1928. Serial No. 295,647
1 Claim. (Cl. 105—35)



In a locomotive, the combination of a pair of trucks; a cab structure pivotally mounted on said trucks, said structure terminating short at at least one of its ends on the adjacent truck to provide a usable space on said truck beyond the end of said cab structure, the intermediate portion of said cab structure between the trucks having a supporting floor disposed below the upper level of said trucks to provide a substantially increased vertical space within said cab structure; an internal combustion engine of a height greater than the vertical space adjacent to the ends of said intermediate portion supported on said floor in said increased space; and an electric generator operatively connected with said engine, disposed on each side of said engine, and supported on said floor in said increased space.

1,922,897

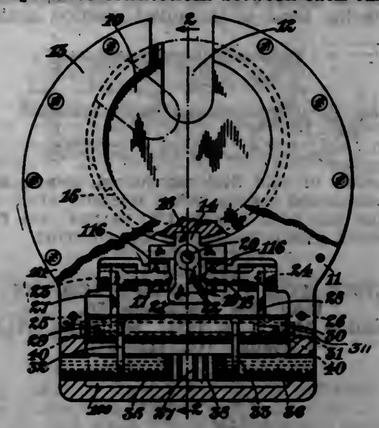
LOCK

Jagdish Chandra Mahindra, Calcutta, India

Application June 2, 1930, Serial No. 458,969, and in Great Britain June 19, 1929
2 Claims. (Cl. 70—107)

1. A lock comprising in combination a bolt, a yoke operatively connected to the bolt, pressure-members located so as to engage balancing pressure faces on the yoke, key receiving apertures to receive a plurality of keys simultaneously,

tumblers to cooperate with each of said keys, and operative connections between each tumbler and one of the pressure-members for the purpose described.

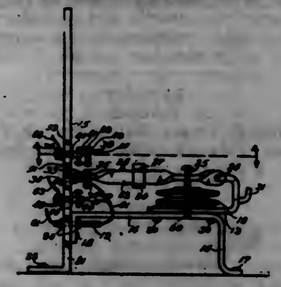


1,922,898

SIGNAL FOR BROODERS

Frank Mockelmann, Millard, Nebr.

Application May 22, 1931. Serial No. 539,392
4 Claims. (Cl. 200—140)



1. A circuit closer, comprising a thermostat, a pivoted lever arranged above the thermostat, adjustable supporting means between the lever and the thermostat for supporting the lever from the thermostat at a predetermined normal position, adjustable means on the lever for steadying the same, movable contacts carried by the lever, fixed contacts spaced from the lever for engaging the movable contacts when the lever is swung through a predetermined distance, and cushioning stop mounted independently of the lever and in advance of a fixed contact to yieldingly arrest the movement of the lever when subjected to sudden vibration and prevent closing of the contacts except by positive movement of the lever.

1,922,899

REFRIGERATING APPARATUS

Edward B. Newill, Dayton, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a Corporation of Delaware

Application May 31, 1932. Serial No. 614,485
4 Claims. (Cl. 156—10)

1. A device for preventing the entrance of radiant heat to an enclosure through a window opening therein which comprises a body portion of relatively strong, flexible sheet material and a heat reflecting portion comprising a thin flexible sheet of aluminum intimately secured to said body portion on the outside thereof and having a smooth bright surface.



1,922,900

HOLDER FOR TAGS, ETC.

Levi N. Plante, Worcester, Mass., assignor to Progressive Tool & Die Company, Incorporated, Worcester, Mass., a Corporation of Massachusetts

Application April 25, 1932. Serial No. 607,257
3 Claims. (Cl. 40—11)



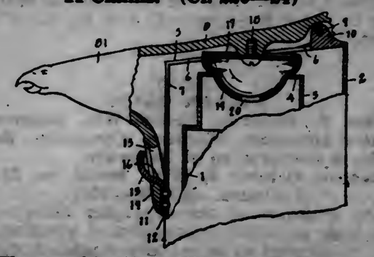
3. As an article of manufacture, a holder for more than one article comprising a vacuum cup for securing it to a vertical surface, said cup being composed entirely of soft rubber having a solid head with an annular neck under the head and a supporting member consisting of a single piece of wire of the same size throughout having an arcuate portion at one end adapted to be applied to the vacuum cup by locating it in said neck, the wire extending upwardly and comprising coils constituting a spring for supporting a thin article and having from the opposite end of the coil an arm projecting outwardly and downwardly and having a hook at the bottom projecting inwardly toward the vacuum cup, said hook constituting means by which a second article can be supported.

1,922,901

RADIATOR FOR MOTOR VEHICLES

Frederick C. Ruppel, Grand Rapids, Mich., assignor to W. B. Jarvis Company, Grand Rapids, Mich.

Application February 27, 1928. Serial No. 257,437
11 Claims. (Cl. 220—24)



6. The combination with a radiator shell, of a radiator disposed therein and provided with a filling opening provided with an upwardly facing valve seat, said shell having an opening

therein above said valve seat, a closure for said opening having a downwardly projecting flange-like portion overlapping the front of the shell when the closure is in closed position, and a valve member mounted on said closure member to coact with said valve seat when the closure member is closed.

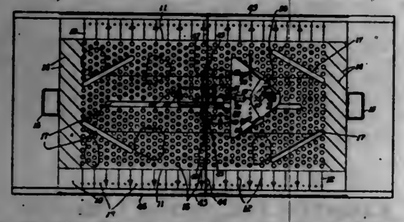
1,922,902
ZINC SULPHATE
Edward A. Taylor, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware
No Drawing. Application January 19, 1931 Serial No. 509,882
4 Claims. (Cl. 23—125)

1. The process of producing zinc sulphate hydrates which consists in cooling to solidify a film of a magma composed of a saturated zinc sulphate solution with solid zinc sulphate monohydrate and breaking up the solidified film into flakes.

1,922,903
MANUFACTURE OF DULL LUSTER ARTIFICIAL SILK
Martin Wadewitz and Richard Elsner, Elizabethton, Tenn., assignors to American Glanzstoff Corporation, New York, N. Y., a Corporation of Delaware
No Drawing. Application September 30, 1932 Serial No. 635,604
9 Claims. (Cl. 106—40)

1. As a spinning solution for artificial filaments, a cellulose xanthate containing diphenyl.

1,922,904
FOOTBALL GAME
Joseph J. Warren, Pittsburgh, Pa.
Application May 14, 1931. Serial No. 537,352
23 Claims. (Cl. 273—94)



1. In an indoor football game the combination of a board having a plurality of depressions therein, means for directing a ball toward any portion of said board, and means movable transversely of said board for intercepting and stopping said ball so as to cause it to come to rest in one of said depressions.

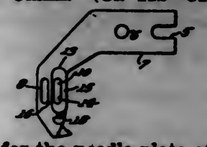
1,922,905
SANDER DRUM
Richard A. Williams, Beloit, Wis., assignor to Yates-American Machine Company, Beloit, Wis., a Corporation of Delaware
Application October 8, 1928. Serial No. 311,000
3 Claims. (Cl. 51—194)

1. In a device of the character described, a drum body on which a covering of abrasive material is adapted to be spirally wound, a spirally movable drum head at one end of the body to which one end of the covering is adapted to be attached when the head is in its initial position nearest the end of the body, means tending to move the head spirally away from its initial position to tighten the covering, and means for holding the head in its initial position against



the action of said first mentioned means, said last mentioned means being released after the covering has been attached to permit said first mentioned means to tighten the covering.

1,922,906
GUIDE FOR STITCHING MACHINES
Emil Aho, Waukegan, Ill.
Application March 12, 1931. Serial No. 521,915
1 Claim. (Cl. 112—61)



In a guide for the needle plate of shoe stitchers, said needle plate being formed with a needle slot and with a guide block spaced therefrom; a guide member formed eccentrically with a slot to snugly receive said guide block, said guide member being reversible whereby to vary the distance between the needle slot and the adjacent side of said guide member, and a screw for securing said guide member and block together.

1,922,907
CABLE
Philip H. Chase, Bala-Cynwyd, Pa.
Application July 25, 1928. Serial No. 295,223
4 Claims. (Cl. 173—266)

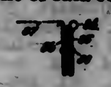


1. A cable comprising a conductor, a sheath surrounding said conductor, and a liquid insulating medium therefor expansible with increase of temperature, a separate, impermeable, liquid-carrying, metallic tube in the sheath, said tube being thin enough to be substantially expansible and contractible in area of cross section in response to change in hydrostatic pressure exerted upon said tube by said liquid insulating medium due to change of temperature, and a hydrostatic compensating reservoir connected with the tube whereby liquid flows between the tube and reservoir upon temperature change permitting the change in said area of cross section, the change in cross sectional area of the tube due to said change in hydrostatic pressure being greater than the change of area between the solids in the cable.

1,922,908
APRON CONVEYER
Spencer A. Coleman, Concord, Mass., assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass., a Corporation of Massachusetts
Application December 14, 1931 Serial No. 580,886
3 Claims. (Cl. 198—194)

1. In an apron conveyer, a plurality of foraminous sections having end portions offset and

projecting outwardly from the back surface of said conveyer, in planes approximately perpendicular to the plane of said conveyer, hinge mem-



bers secured to said offset portions and also approximately perpendicular to the plane of said conveyer, and means to pivotally connect said hinge members together.

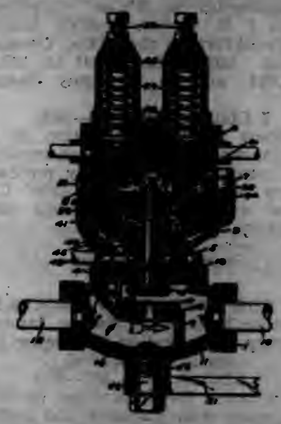
1,922,909
FERTILIZER
Cromwell B. Dickey, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania
No Drawing. Application December 29, 1931 Serial No. 583,707
1 Claim. (Cl. 71—6)

A mixture comprising dried activated sewage sludge 40 to 75 per cent, lead arsenate 15 to 25 per cent, water 5 to 20 per cent and an organic colloid 1 to 6 per cent.

1,922,910
MANUFACTURE OF FILAMENTS, THREADS, ETC.
Richard Elsner and Harold L. Johnson, Elizabethton, Tenn., assignors to American Glanzstoff Corporation, New York, N. Y., a Corporation of Delaware
No Drawing. Application April 1, 1933 Serial No. 664,626
13 Claims. (Cl. 106—40)

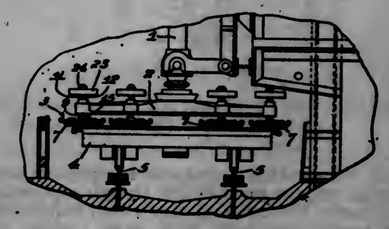
1. A cellulose spinning solution for use in the manufacture of filaments, yarn, etc., comprising a cellulose compound in a solvent to which is added diphenyl and naphthalene.

1,922,911
COMPRESSOR GOVERNOR
Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania
Application May 23, 1928. Serial No. 279,956
3 Claims. (Cl. 137—153)



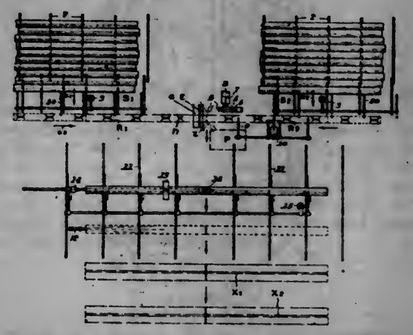
1. In a steam pump governor, the combination with a steam valve body, a steam valve mounted in said body, a cylinder section, a piston mounted in said section, a partition wall in said section, and a stem connecting said valve with said piston and extending through a bore in said wall, of a spring acting on said piston and a barrier plate interposed between said wall and said piston for supporting said spring and to prevent conduction of heat from the partition to the spring, said plate providing an air space between the partition wall and the plate.

1,922,912
PLATE GLASS POLISHING BLOCK
John H. Fox, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania
Application October 24, 1929. Serial No. 402,086
3 Claims. (Cl. 51—195)



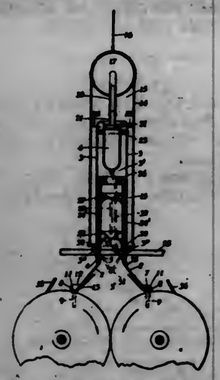
1. The combination with a driven runner having a vertical bearing, a polishing block, a spindle mounted in the bearing for free vertical and rotary movement and connected positively to the block so as to rotate therewith but with the block free to tilt universally with respect to the axis of rotation of the spindle, and a weight above the bearing mounted for rotation with the spindle and applying pressure axially thereof upon the center of the block.

1,922,913
APPARATUS FOR END-TO-END WELDING OF PIPE
John W. Free, Aliquippa, and Robert Andersen, Coraopolis, Pa., assignors to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania
Application June 16, 1930. Serial No. 461,335
42 Claims. (Cl. 219—6)



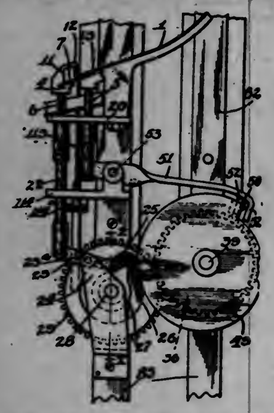
1. Apparatus for making welded pipe comprising spaced supply stations, means for feeding pipes singly and successively from a station and into alinement with a pipe fed from the other station, means for causing relative endwise movement between the pipes so as to butt their ends, means for welding the abutted ends, and means for discharging the welded pipe sidewise.

1,922,914
EVAPORATING APPARATUS
John Golding, Shinfield, England
Application July 17, 1931, Serial No. 551,363, and in Great Britain August 1, 1930
6 Claims. (Cl. 159—11)



1. In evaporating apparatus comprising heated drying rolls, a pre-heating trough and evaporating sheets through and over which respectively liquid under treatment flows, said trough and evaporating sheets being superimposed above said rolls, a hood enclosing said sheets, means adapted to induce a current of air to pass over the liquid on said sheets and means to draw-off vapour, detachable lower portions for said evaporating sheets formed with gutters at the bottom disposed to receive said liquid under treatment, said gutters having weirs over which liquid can flow onto said rolls and draw-off conduits communicating with said gutters.

1,922,915
MULTIPLE COIN VENDING MACHINE
Daniel Troy Halls, Coral Gables, Fla.
Application January 21, 1929. Serial No. 333,771
8 Claims. (Cl. 194—57)
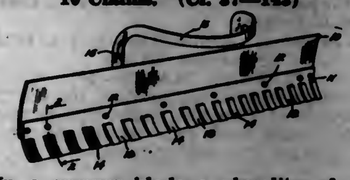


6. In a coin controlled vending machine, a plurality of parallel reciprocable plungers having means for conjointly supporting a coin, means for actuating one plunger, said last mentioned plunger having means for engaging said coin and actuating said second plunger, ejector mechanism and means controlled by the second plunger for locking said ejector mechanism.

1,922,916
METHOD OF ATTACHING KEYS AND THE ARTICLES
Henry Hermani, Baltimore, Md., assignor, by mesne assignments, to American Can Company, New York, N. Y., a Corporation of New Jersey
Application June 14, 1928. Serial No. 285,240
1 Claim. (Cl. 220—53)



The method of attaching opener keys provided with auxiliary openings to cans of the rip strip type, which consist in positioning a ball of solder over the opening, shaping the solder while cold to form a shaped piece of solder with a head at one face of the key, and then heating the other end to cause the solder to adhere to the can.

1,922,917
GRADER BLADE
Charles A. Russell and Carroll M. Walker, Los Angeles, Calif., assignors to Mills Alloys, Inc., Los Angeles, Calif., a Corporation of Delaware
Application August 4, 1930. Serial No. 472,880
10 Claims. (Cl. 37—142)



1. In a scraper blade a plurality of spaced projecting portions including particles of tungsten carbide.

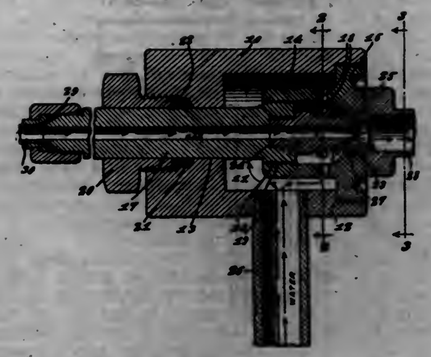
1,922,918
PRODUCTION OF LIQUID, IN PARTICULAR AROMATIC, HYDROCARBONS
Fritz Winkler, Hans Haenber, and Paul Feller, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application April 15, 1931, Serial No. 530,424, and in Germany January 27, 1930
7 Claims. (Cl. 260—168)

1. A process for the production of a liquid hydrocarbon, which comprises thermally treating a gas comprising essentially methane at a temperature between 700° and 1200° C. in the presence of a catalyst comprising essentially metallic silicon.

1,922,919
PROCESS FOR PREPARING POULTRY FOOD
Komao Yamamoto, Tokyo, Japan
No Drawing. Application November 5, 1930 Serial No. 493,696
2 Claims. (Cl. 167—53)

2. In a process for improving poultry food, mixing together iron sulphate and sodium silicate, removing from the resulting iron silicate in gel form the sodium sulphate produced during reaction, and adding to poultry food a suitable quantity of said iron silicate gel.

1,922,920
ADJUSTABLE DIFFUSER AND INJECTOR
Mark A. Aherne, Astoria, N. Y.
Application September 11, 1931
Serial No. 562,248
3 Claims. (Cl. 210—40)



1. In a device of the character described, a casing forming a chamber opening through one end thereof, a fluid pipe passed centrally through the casing into the chamber, an orificed container fitted upon the open end of the casing and adjustably joined with the pipe and having an annular flange adjustably threaded in the open end of said casing, a nozzle detachably connected with the pipe and projected into the container, the container having radial openings concentrically with respect to the nozzle, and a throat member connected with the container and having an opening aligned with the nozzle, the first named pipe being adjustable in the casing to vary the relation of the nozzle with respect to the container orifice.

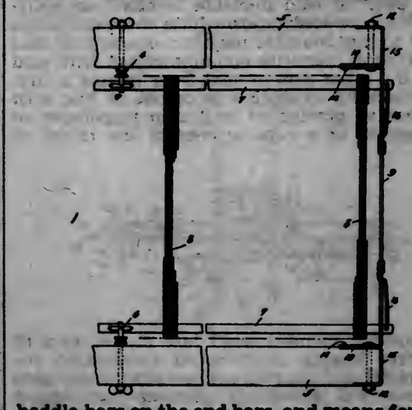
1,922,921
MAINSPRING FOR WATCHES, CLOCKS, ETC.
Anton J. Andersen, Jersey City, N. J.
Application August 26, 1932. Serial No. 630,601
3 Claims. (Cl. 267—1)



1. A spring motor spring comprising a resilient body of concavo-convex cross sectional configuration extending across the entire width of the body.

1,922,923
HEDDLE FRAME CONSTRUCTION
Isaac Andrews, Spartanburg, S. C.
Application January 26, 1932. Serial No. 588,975
10 Claims. (Cl. 139—92)

1. A heddle frame comprising upper and lower bars, pivoted end bars for holding the upper and lower bars in spaced relation with each other, heddle bars supported by the upper and lower bars, said end bars having openings to receive the ends of the heddle bars to removably mount the



heddle bars on the end bars, and means for securing the heddle bars against movement.

1,922,923
MANUFACTURE OF CAOUTCHOUC-LIKE BODIES
Jean Baer, Uster, Switzerland
No Drawing. Application November 1, 1928, Serial No. 316,627, and in Germany June 29, 1928
6 Claims. (Cl. 260—6)

1. A process for the manufacture of caoutchouc-like bodies, consisting in heating a dihalogen derivative of a hydrocarbon selected from the unsaturated hydrocarbon group consisting of isoprene and butadien at temperatures of about 80 to about 90° C. with an alkali-forming metal polysulphide solution.

1,922,924
ANTISLIPPING PROJECTION FOR BOOTS AND SHOES
William Henry Bird, Wanganui, New Zealand
Application June 15, 1931, Serial No. 544,584, and in New Zealand July 1, 1930
2 Claims. (Cl. 36—59)



1. In anti-slipping projections for boots and shoes, a stud body of hard material having an outwardly extended and slightly hollowed base portion for attachment to the underside of the sole of a boot or shoe, an annular metal reinforcing piece for the base and body, and a reinforcing core passing centrally into the body through the hollowed base portion and metal piece, substantially as described.

1,922,925
COIN DETECTOR
Emerson A. Bolen, Morris, Ill., assignor to Northwestern Corporation, Morris, Ill., a Corporation of Illinois
Application December 26, 1929 Serial No. 416,700
11 Claims. (Cl. 194—102)

10. In a coin detector, the combination with a coin chute, of a member movable a predeter-

mined distance to pass a coin through said chute, a stop having an effective and ineffective portion in the path of said movable member, an elongated lever pivoted intermediate the extremities thereof to said movable member, one arm of said lever being in operative communication with said chute, the other arm of said lever having a thin edge extremity extending in or out of line with the effective portion of said stop responsive to a dimension of a coin to control the travel of



said movable member, said last named arm of said lever having accentuated translation responsive to said shorter arm so that slight coin variations will selectively displace said longer arm in the path of either said effective or ineffective portions of said stop, springs means for urging said movable member to its initial position, and a projection on said arm to contact with the lateral face of a coin for registry with an aperture therein.

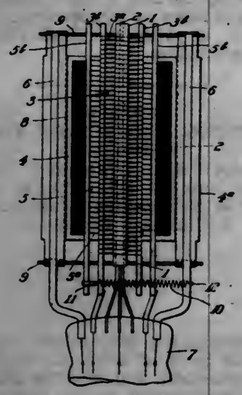
1,922,926

THERMIONIC VALVE

William Richard Bullimore, London, England

Application October 26, 1932, Serial No. 639,695, and in Great Britain August 21, 1931

5 Claims. (Cl. 250—27.5)



1. A thermionic amplifying valve comprising an electron emitting cathode, an anode, a grid electrode interposed between the anode and cathode for controlling the electrical discharge between the cathode and anode, a foraminous auxiliary anode mounted between the main anode and the control grid, and a connection between said auxiliary anode and said main anode comprising an impedance forming a part of the amplifying valve and which forms the sole outlet path for the space current passing from the cathode to the said auxiliary anode, whereby the auxiliary anode is held at a positive potential lower than that of the main anode, said impedance having a value to cause substantially equal space currents to flow to the two said anodes.

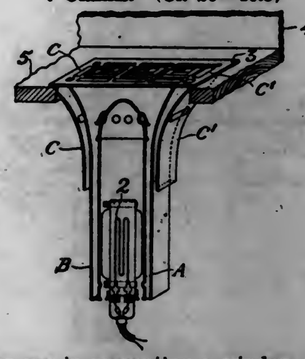
1,922,927

APPARATUS FOR PREVENTING CONDENSATION ON THE INSIDE SURFACE OF A SHOW CASE WINDOW

George Barnhill Burnside, Broomhill, Glasgow, Scotland

Application December 16, 1930, Serial No. 502,777, and in Great Britain December 18, 1929

7 Claims. (Cl. 20—40.5)



1. For use in preventing a window of a show case from becoming obscured by condensation upon the inside surface of the window of aqueous vapour, apparatus formed as a single structure applicable to the show case as a complete unit and comprising electric heating means for heating and drying air, means, communicating with the atmosphere, for the inlet into the show case of air induced, heated and dried by the heating means, and means, communicating with the atmosphere, for the outlet of air from the show case, which show case, except for said inlet and outlet, otherwise normally forms a closed area.

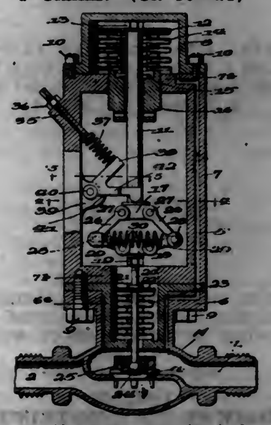
1,922,928

PRESSURE CONTROL DEVICE

Channing Moore Cave, Jr., New Orleans, La.

Application January 20, 1933. Serial No. 652,757

8 Claims. (Cl. 50—23)



1. An automatic pressure actuated snap-acting pressure control device comprising a control valve, an actuator rod subject to the pressure action of the medium of which the pressure is to be controlled and adapted to move between two extreme positions corresponding to the closed and open positions of said valve in response to gradual changes in the pressures of said medium, and snap-acting means interposed between and connecting said actuator and valve whereby the latter will be caused to suddenly move to open or closed position in accordance with the movement of the actuator rod to its corresponding extreme position, said actuator rod being provided with an enlarged portion, in combination with a main helical spring at all times acting on said actuator rod in opposition to the pressure of said medium to move and hold said rod in one of its extreme positions corresponding to the closed position of the valve, means for varying the degree of compression of said main spring to vary the degree of pressure of said medium required to move said actuator rod to its other extreme position corresponding to the open position of said valve, means pivotally mounted to a fixed object and adapted to move with and bear on said enlargement, a stop adapted to engage said means and prevent its engagement with said enlargement as said actuator rod approaches the final stages of its movement to its extreme position corresponding to the open position of said valve, a supplemental helical spring bearing on said means in opposition to said main spring, and means for adjusting the degree of compression of said supplemental spring independently of the adjusting means of the main spring.

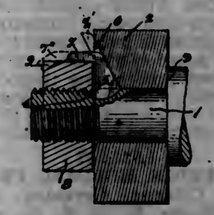
1,922,929

MEANS FOR KEYING MEMBERS ON SHAFTS

Martin T. Chamberlain, Mobile, Ala., assignor of one-half to J. C. Lawrence, Mobile, Ala.

Application February 2, 1931. Serial No. 513,034

9 Claims. (Cl. 287—53)



1. In a device of the class described, a shaft having a longitudinal keyway therein, a member adapted to be secured to said shaft and having a longitudinal keyway therein in register with the keyway in said shaft, a key in said registered keyways, a locking nut carried by the said shaft and adapted to engage the said key for locking the same in position, and means formed on said key for maintaining said nut in key locking position.

1,922,930

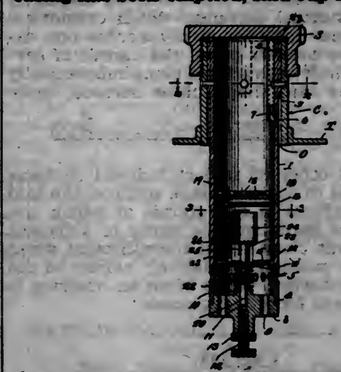
GAS KEEPER

John M. G. Darms, Haverford Township, Delaware County, Pa.

Application September 23, 1932 Serial No. 634,595

4 Claims. (Cl. 220—86)

1. A device of the class described including a tubular valve casing having an inlet, an outlet and a valve seat between the inlet and outlet, a valve movable between the seat and outlet, resilient means for holding the valve normally against its seat, and a cup having an open top supported by the valve between the seat and inlet to receive liquid and hold the valve open after the casing has been emptied, said cup having a drain



opening for gradually releasing the liquid from the cup and retarding the closing of the valve.

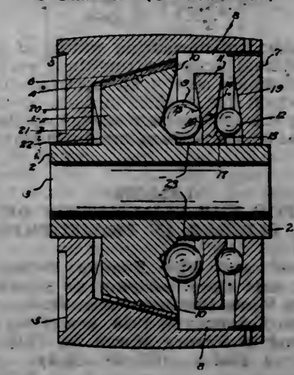
1,922,931

CLUTCHING DEVICE

Victor Jean Joseph Defays and Paul Joseph Louis Lefebvre, Brussels, Belgium

Application June 11, 1931, Serial No. 543,666, and in Belgium June 12, 1930

6 Claims. (Cl. 192—105)



1. In a clutching device a driving element having a conical formation and a lateral inclined face, a driven element surrounding the driving element and adapted to rotate freely around the said driving element and to be displaced axially relatively thereto, the said driven element formed with a cavity, a set of free balls located in the said cavity and cooperating with the inclined face of the driving element, a plate or disc also located in the said cavity and against one face of which the said balls exert a lateral pressure component under centrifugal force when they are rotated through the driving element and a second set of free balls located between the opposite face of the plate or disc and one face of the driven element.

1,922,932

CORRUGATED TRANSPARENT MATERIAL

Frederic A. Delano, Washington, D. C.

Application May 16, 1930. Serial No. 452,993

7 Claims. (Cl. 88—60)

1. A one-way vision window pane consisting of a body of transparent material, one surface of

which lies in a single plane, and the other surface of which comprises a plurality of angularly arranged cylindrical surfaces, which cylindrical surfaces extend uninterruptedly across one dimention of the window pane; the chords of certain of the cylindrical surfaces being substantially parallel to the said single plane surface, while



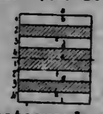
the chords of other of said cylindrical surfaces are at an angle to the said plane surface, the said cylindrical surfaces of the chords of which are parallel to the plane surface being of sufficient width to permit clear vision therethrough when an observer is positioned relatively closely to the window but distorting vision when an observer is relatively distant from the window.

1,922,933
MEASURING METHOD
Richard Dirks, Chemnitz, Germany
Application June 1, 1932, Serial No. 614,778, and in Germany July 30, 1930
8 Claims. (Cl. 175—183)



1. A method of measuring widths of material, which continually emerge from their working machines and which receive an electrostatic charge by the friction due to their motion, consisting in measuring the electrostatic charge on the widths of material as the basis of measurement.

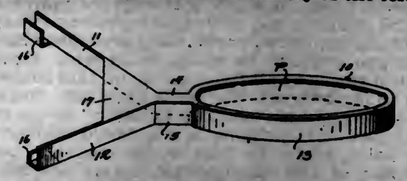
1,922,934
DEVICE FOR THE ELIMINATION OF CHROMATIC FLICKER IN PROJECTION APPARATUS
Felix Dorel and Elie Eugéne Bellier, Paris, France; said Dorel assignor to Société Francaise des Films Herault, Paris, France
Application February 8, 1930, Serial No. 426,947, and in France March 20, 1929
1 Claim. (Cl. 88—16.4)



In a color cinematograph apparatus for superposed projection of two consecutive pictures of film, a device for the elimination of chromatic flicker, said device comprising a plate having an area equal to that of two consecutive pictures, the upper half of said plate corresponding to the area of one picture and the lower half corresponding to the area of the other picture, each half having transparent and opaque portions corresponding respectively to opaque and transparent portions of the other half.

1,922,935
ARTICLE SUPPORTING BRACKET
Hilyer A. Du Bois, Richmond Hill, N. Y.
Application March 31, 1932. Serial No. 602,814
4 Claims. (Cl. 45—75)

1. An article supporting means comprising a tray, a pair of angularly related arms integral with the tray, inwardly extending table engaging means carried by the terminal end of each arm for engagement below a table top structure, and means carried by each arm inwardly of the terminal ends thereof and engaging the top of the table and coacting with said table engaging means to hold the tray in horizontal position outwardly of the table and to prevent spreading of the arms.

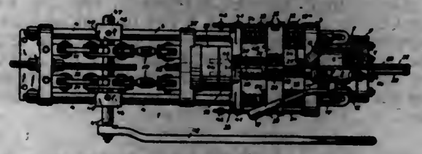


1,922,936
COATING PROCESS AND MATERIAL
Henry V. Dunham, Bainbridge, N. Y., assignor, by mesne assignments, to The Casein Manufacturing Company of America, Inc., New York, N. Y., a Corporation of Delaware
No Drawing. Application March 21, 1929 Serial No. 348,997
7 Claims. (Cl. 91—68)

1. A porous absorbent base carrying an undercoating of a dried mixture of an emulsion of pyroxylin varnish with aqueous solution of a highly proteinaceous material, and carrying a top coating thereon, of a dried pyroxylin varnish, said top coating being more firmly united to said under coating than would be the case if the pyroxylin varnish were omitted from the under coating composition.

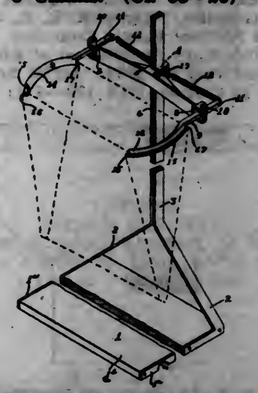
6. The method of finishing articles having absorbent surfaces, which consists in producing upon the same a coat of an intimate mixture of a pyroxylin varnish in many times it own volume of an aqueous solution of casein or casein compound, and then superposing thereon a coat of pyroxylin varnish, substantially as described.

1,922,937
EXTRUSION MOLDING PRESS
Paul Eckert, Cologne, Germany, assignor to Eckert & Ziegler G. m. b. H., of Cologne-Braunsfeld, Germany, a Corporation of Germany
Application October 2, 1930, Serial No. 486,002, and in Germany April 15, 1930
9 Claims. (Cl. 18—16)



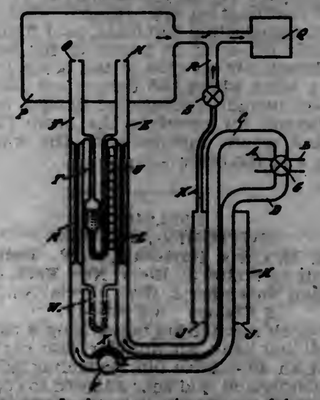
4. A horizontal spray casting machine for molding thermoplastic substances comprising an extrusion cylinder, means for displacing said cylinder, a nozzle at one end of said extrusion cylinder, means for heating said extrusion cylinder to a temperature which is a maximum at said nozzle, a mold adapted to receive the material from said nozzle, a ram in said extrusion cylinder, means for displacing said ram, means for temporarily holding said extrusion cylinder stationary, means for temporarily holding said ram stationary, and means for operating each displaceable member with respect to the temporarily stationary one.

1,922,938
BAG HOLDER
Fred S. Elliott, Lansing, Mich., assignor of one-half to William B. Phillips, Lansing, Mich.
Application November 5, 1931. Serial No. 573,167
3 Claims. (Cl. 38—26)



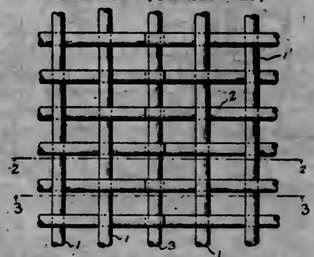
1. A bag holding device comprising a base a standard raising vertically therefrom said standard being composed of a plurality of vertical strips secured together at their ends, resiliently held apart from each other at their centers and having notches along the forward surface, oppositely disposed semi-circular arms disposed substantially at each end of a bracket, said bracket provided at its center with a transverse opening through which the standard may pass, said transverse opening being provided with a horizontal protrusion which comes in locking contact with the aforesaid notches thereby holding said bracket at any desired height, said semi-circular arms disposed substantially in a horizontal plane with their concave sides toward each other, said arms being fulcrumed about vertical pivots, means supplied to hold said arms resiliently apart substantially as shown.

1,922,939
APPARATUS FOR GAS ANALYSIS
Isaac Fagelston, London, England
Application March 12, 1931. Serial No. 522,079
3 Claims. (Cl. 73—51)



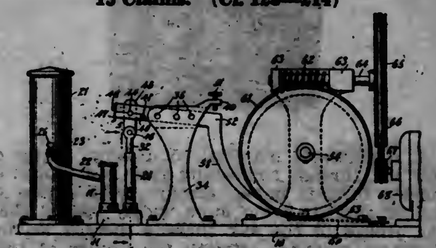
3. Gas analysis apparatus comprising in combination two comparison tubes, each having a capillary portion, an inlet to each of said tubes for standard gas and gas under test respectively, a chamber in communication with the outlet of each of said tubes, exhausting apparatus connected to said chamber, a plate having an orifice in each of said tubes on the down-stream side of said capillary portion, means for measuring the pressure difference between the gases respectively in those portions of said tubes between said capillary portions and said plates, a valve capable of fine adjustment in one of said tubes, such tube having a by-pass bridging said valve, and means indicating the pressure difference between the gases respectively in those portions of said tubes on the up-stream side of said capillary portions.

1,922,940
METHOD OF JOINING THE ENDS OF WIRE CLOTH
René Franck, Selestat, France
Application July 9, 1932, Serial No. 621,621, and in France April 27, 1931
3 Claims. (Cl. 245—10)



1. A method of joining the ends of wire gauze of the type used in the manufacture of paper and consisting of woven warp wires and weft wires of a uniform size, comprising positioning the ends of the gauze together with the warp wires of each end in alignment, placing the extremities of alternate warp wires of one end on one side of a weft wire common to both of the ends of the gauze to be joined and of the same size as the other weft wires of the gauze, placing the extremities of alternate warp wires of the other end of the gauze in alignment with said alternate warp wires of the first end and on the opposite side of the common weft wire, and joining the extremities of all of the warp wires to said common weft wire.

1,922,941
APPARATUS FOR THE AUTOMATIC ADMINISTRATION OF MEDICATION
Charles C. Francis and Edward J. Sears, New York, N. Y.
Application April 16, 1930. Serial No. 444,834
15 Claims. (Cl. 128—214)



1. In an apparatus for the automatic administration of medication, an outlet, a container

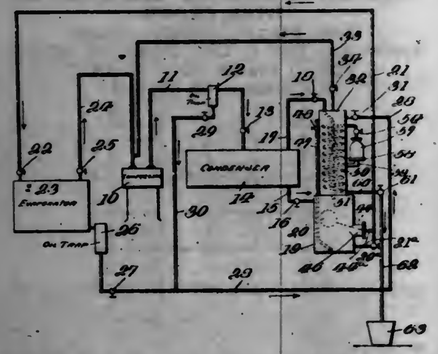
for a medicament connected with the outlet, means for controlling the flow of the medicament through the outlet, adjustable timing means connected with the first mentioned means to regulate the intervals between the periods when dosages pass through the outlet and means which renders the second mentioned means inoperative when the medicament in the container falls below a predetermined point.

1,922,942

COMBINATION RECEIVER AND REGENERATOR UNIT FOR REFRIGERATING PLANTS

Norman H. Gay, Los Angeles, Calif.

Application January 6, 1932. Serial No. 585,081
17 Claims. (Cl. 62—115)



1. In a refrigerating system including a compressor, a condenser, a receiver and an evaporator and pipes for connecting the same, a gas purging line connected to said condenser, the combination of a unit including said receiver and a regenerator, a coil within said regenerator in communication with the upper portion of said receiver, a connection between said purging line and said coil, means for introducing liquid refrigerant into said regenerator and means for withdrawing gaseous refrigerant therefrom, and a non-condensable gas discharge line connected to the upper end of said coil and including a discharge valve.

1,922,943

FABRIC

Alfred A. Gobeille, Shannock, R. I., assignor to Columbia Narrow Fabric Company, Shannock, R. I., a Voluntary Association of Rhode Island

Application April 7, 1932. Serial No. 603,723
4 Claims. (Cl. 139—421)



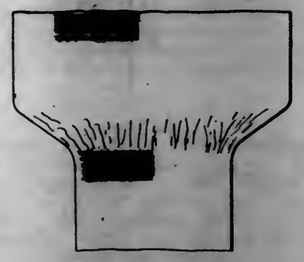
1. A shirrable material comprising groups of raw silk threads containing gum and groups of rubber threads under tension, said groups of rubber threads being more widely spaced than the groups of the silk threads thereby leaving shirrable material between the groups of rubber threads, said silk threads being sufficiently close together to hold said rubber threads under tension and said rubber threads being capable of shirring the material between said group of rubber threads when said gum is removed.

1,922,944

ELASTIC WOVEN FABRIC

Alfred A. Gobeille, Shannock, R. I., assignor to Columbia Narrow Fabric Company, Shannock, R. I., a Voluntary Association of Rhode Island

Application July 28, 1932. Serial No. 625,347
19 Claims. (Cl. 139—421)



1. A method of forming an elastically extendible material, which consists in weaving textile threads having gum or sizing therein with relatively elastic threads of rubber under tension said textile threads being sufficiently close together and containing sufficient gum or sizing to provide a substantially non-elastic fabric when taken from the loom, and then degumming the fabric to permit it to contract and be elastically extendible.

1,922,945

FASTENER FOR FIRE BRICK AND THE LIKE

William J. Gravert, Long Island City, N. Y.

Application November 25, 1930
Serial No. 498,182
3 Claims. (Cl. 72—101)



1. The combination with an arch beam having flanges for supporting fire brick, said flanges being entirely cut-away at points in the beam, of means detachably secured to the beam for supporting a brick where the flanges are cut away, said means including connected flanges, resilient wings thereon for receiving the beam therebetween, and means integral with the wings for engaging into the beam.

1,922,946

SWITCHING DEVICE

Alphonse M. Greis, Hartsdale, N. Y., assignor of one-half to Walter L. Biery, New York, N. Y.

Application November 3, 1928. Serial No. 316,963
5 Claims. (Cl. 58—19)

1. A switch mechanism comprising a clock operated sliding gear, an annular disc carried by said gear an adjustable pin for sliding said gear, a cam mounted on said gear adapted to cooperate with said adjustable pin, a pair of spring contactors adapted to engage with said disc, to close an electric circuit, roller members on the ends of each of the contactors adapted to have a rolling contact with the annular disk and means for



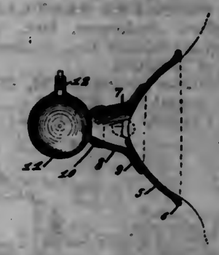
adjusting said pin to effect contact between said disc and said contactors at a predetermined time.

1,922,947

NIPPLE EVERTER

Helene Grotte, Norwood, N. Dak.

Application August 12, 1931. Serial No. 556,656
1 Claim. (Cl. 128—299)



A device of the character described comprising a substantially cup-shaped member having a central opening, a hollow ectropion involving a truncated conical body open at opposite ends and provided at its larger open end with a circular concavo-convex flange constituting a seat for accommodating the end of said member having the central opening, and a compressible bulb having a coupling nipple joining it with the ectropion, the latter and the said member being free of each other for the centering of one with respect to the other.

1,922,948

ATTACHMENT PLUG

Charles Hannan, Jr., Washington, Pa.

Application September 12, 1932
Serial No. 632,823
1 Claim. (Cl. 200—115.5)



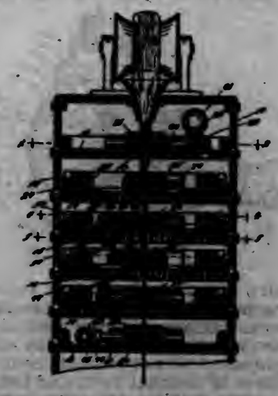
An attachment plug comprising a body member formed with an exterior spirally corrugated sleeve for engaging a correspondingly formed socket of a receptacle, the body member being formed with a bore and a contact at the closed end of the bore, and a fuse carrying barrel formed with an axial recess opening on one side and constituting a fuse receiving channel, the barrel being provided with contacts at its opposite ends and the fuse being engaged with said contacts, said body member and fuse barrel having releasable interlocking connections.

1,922,949

SPINNING APPARATUS

Thomas Harris, Providence, R. I.

Application April 3, 1931. Serial No. 527,498
10 Claims. (Cl. 19—130)



1. A method of long draft spinning which consists in passing sliver thru a series of pairs of nip rolls, each pair operating progressively at increased speeds for drafting the sliver, and revolving adjacent pairs of rolls in opposite directions about the sliver as a center to impart opposite twists in the sliver.

2. On a long draft spinning apparatus, a plurality of pairs of nip rolls, means for rotating said pairs at different speeds for drafting the work, and means for revolving one pair of rolls in one direction and the next pair of rolls in the opposite direction about the work as a center to impart opposite twists therein.

1,922,950

SPINNING APPARATUS

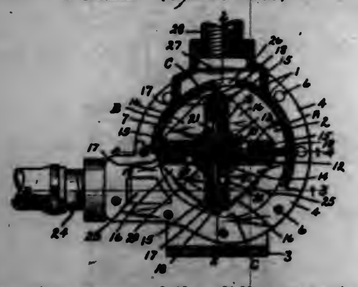
Thomas Harris, Providence, R. I.

Application November 17, 1932
Serial No. 642,998
12 Claims. (Cl. 19—130)



1. In a long draft spinning apparatus, a plurality of pairs of nip rolls, means for separately rotating the rolls of each pair about its own axis, means for revolving one of the pairs of rolls about an axis passing between the rolls and at an angle to the axis of the rolls, and means for traversing one of the rolls of each pair with reference to its other roll.

1,922,951
ROTARY PUMP
William G. Hawley, Elmira, N. Y.
Application February 3, 1930. Serial No. 425,501
1 Claim. (Cl. 103—138)



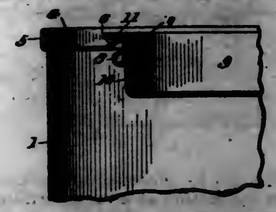
In a rotary pump of the sliding vane type, a pump casing providing a chamber having a regular peripheral surface, a cross section of said surface taken in a plane normal to the axis thereof being composed of two diametrically opposed concentric arcs of unequal radii and uniform acceleration curves joining adjacent ends of said arcs so as to impart a uniformly accelerated and retardation motion in a radial direction when followed circumferentially, a rotor having radial flanges journaled in the case concentric with said arcs each of said flanges being provided with a radial slot, an impeller vane slidably mounted in each of said slots, a discharge port in the pump casing in registration with and overlapping one of said curved surfaces, and an inlet port in said casing communicating with the pump chamber intermediate the axis of the rotor and the path of movement of the outer ends of said flanges and overlapping the included angle of the other curved surface for balancing the pressure on opposite sides of said vanes during the entire radial movements thereof.

1,922,952
MANUFACTURE AND PRODUCTION OF FILAMENTS, THREADS, BANDS AND THE LIKE FROM VISCOSE
Horace James Hegan and John Henry Taylor, Coventry, England, assignors to Courtaulds Limited, London, England
No Drawing. Application August 31, 1929, Serial No. 389,874, and in Great Britain October 22, 1928
6 Claims. (Cl. 106—40)

1. In a process for the manufacture and production of filaments, threads, bands and the like from viscose, the step of mixing with the viscose a high-boiling non-solid petroleum body and a blown saponifiable oil.

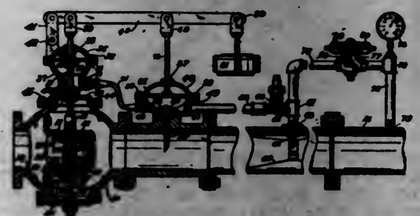
1,922,953
FRICTION CLOSURE FOR CONTAINERS
Harvey E. Householder, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York
Application November 5, 1929. Serial No. 404,957
1 Claim. (Cl. 220—42)

A metal container comprising a body portion, a top secured thereto, said top having an opening centrally thereof, the metal of the top adjacent said opening being bent upwardly, thence downwardly to substantially an equal distance below the metal of the top to provide an extended vertical friction wall seat for a friction top closure, the lower edge portion of said wall being rolled outwardly and thence upwardly to form a hollow false wire with the edge of the metal thereof spaced from the vertical friction wall, and a closure having an extended substantially vertical



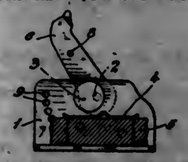
friction wall adapted to contact with said seat throughout substantially the entire height of said seat and having a projecting flange overhanging the upper bent portion of the top.

1,922,954
FLUID PRESSURE REGULATOR
Ralph C. Hughes, Anderson, Ind., assignor to Reynolds Gas Regulator Co., Anderson, Ind., a Corporation of Indiana
Application December 30, 1931
Serial No. 583,945
7 Claims. (Cl. 50—16)



1. The combination with a conduit of regulating means for automatically maintaining a constant pressure in the conduit on the outlet side of the regulator, pressure responsive means for controlling said regulating means, a second pressure responsive means connected to said conduit on the low pressure side, means connecting the two said pressure responsive means together for controlling said regulating means, and tubular means outside the said conduit for connecting the two pressure responsive means for equalizing the pressure in both said pressure responsive means, to balance the resulting effective pressure controlling said regulating means.

1,922,955
SKI FASTENER
Hans Jensen, Sarpsborg, Norway
Application November 3, 1932, Serial No. 641,073, and in Norway February 20, 1931
5 Claims. (Cl. 280—184)



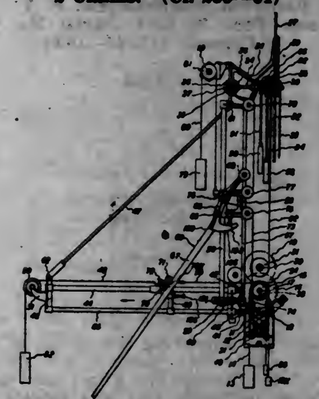
1. A ski fastener having toe clamping irons, eccentric devices mounted on each of the toe clamping irons, and coverings secured to the sole of the boot and adapted to co-operate with the eccentric devices, the coverings being of such shape that the eccentric when rotated for fastening, in addition to pressing the covering with the sole against the bottom plate of the toe iron, also causes the sole to be moved forward between the toe irons.

1,922,956
NECKTIE KNOT TYING AND RETAINING FORM
Alexander O. P. Jouffray, San Antonio, Tex.
Application April 14, 1932. Serial No. 605,311
9 Claims. (Cl. 2—150)



1. A necktie knot tying and retaining form, comprising a pair of arcuate shaped plates of similar configuration arranged in separated parallel resiliently movable relation to one another.

1,922,957
APPARATUS FOR COMPUTING AND INDICATING THE RATIO OF VARIABLE QUANTITIES
George Alfred Julius and Awdry Francis Julius, Sydney, New South Wales, Australia
Application May 28, 1931, Serial No. 540,734, and in Australia June 5, 1930
2 Claims. (Cl. 235—61)



1. In varying ratio computing apparatus of the kind herein described, a stationary vertical runway, a stationary horizontal runway, a carriage slidable on each of said runways, flexible lines for applying traction to said carriages without lost motion, means for operating said lines proportionately to the quantities required to be ratioed, and a pendent arm coacting with said carriages to obtain the required ratio for transmission to an indicator.

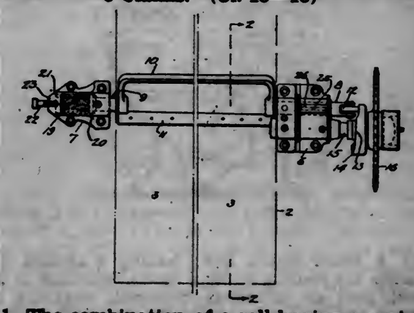
1,922,958
ELECTRIC VAPORIZER
Max Katzman, Utica, N. Y.
Application September 28, 1931
Serial No. 565,599
4 Claims. (Cl. 219—40)

1. An electric vaporizer comprising a container for the liquid to be vaporized having a removable top section provided with a vapor outlet, an electric heater secured to and extending downwardly from said cover section into the container and provided with terminals extending through and some distance above said cover section, an electric plug movable into and out of engagement with the terminals, a supporting frame for the container, a plug supporting member slidable vertically along and upon said frame, a distance



greater than the height of the terminals above the cover section and having pivotal connection with said frame to permit the plug to be moved laterally beyond the periphery of the cover section when the plug is upwardly displaced from engagement with the terminals.

1,922,959
KNIFE OSCILLATING DEVICE
Edgar B. Kerst and Alpheus O. Hurxthal, Philadelphia, Pa., assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania
Application March 4, 1932. Serial No. 596,886
8 Claims. (Cl. 18—15)

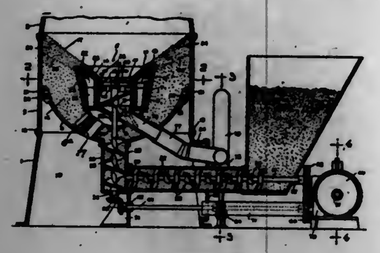


1. The combination of a roll having a peripheral surface arranged to carry a layer of material on and in adhesive contact therewith, a scraper extending across and in contact with the carrying face of the roll, means for reciprocating the scraper longitudinally and relative to said carrying face to remove the material therefrom comprising a cam surface movable with the carrying surface, a cam follower cooperating with the said cam surface and operatively connected to the scraper to move the scraper in one direction, and resilient means for moving the scraper in an opposite direction.

1,922,960
COAL BURNER AND FEED MECHANISM
Silard Klein, New York, N. Y.
Application August 16, 1927, Serial No. 213,235
Renewed January 6, 1933
6 Claims. (Cl. 110—45)

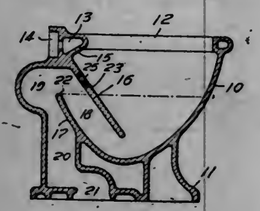
1. A burner of the class described comprising a substantially annular structure, certain of the walls of which are hollow and extend continuously

about a substantially central opening, the outer walls of said certain hollow walls being provided with perforations, said annular structure having a bottom opening, means for supplying fuel



through said bottom opening and means communicating with the interior of said certain hollow walls to supply air through said perforations into the bed of fuel within said annular structure.

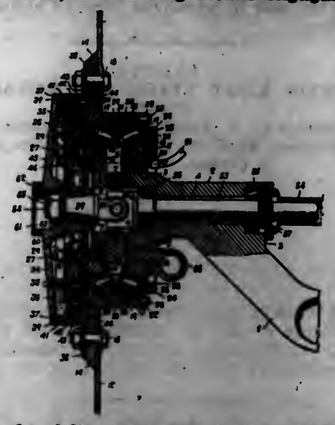
1,922,961
WATER CLOSET BOWL AND CLEAN-OUT CONSTRUCTION THEREFOR
Samuel Krinsky, New York, N. Y.
Application December 15, 1932
Serial No. 647,314
3 Claims. (Cl. 4—257)



1. A water closet bowl having a siphon discharge leg leading from a lateral opening in the bowl, and an interiorly disposed, inwardly directed substantially vertically disposed skirt or wall extending towards the bottom of said bowl, forming a continuous discharge passage from said bowl through said opening, a water supply inlet for said bowl adjacent said siphon, adapted to discharge a supply of water over said skirt or wall, an orifice formed in said skirt or wall adjacent said lateral opening at a point above the normal level of the water seal formed by said siphon, and a removable closure for said orifice, said removable closure being formed to engage said orifice and of a thickness substantially equivalent to said wall to make smooth and continuous contact with the opposite surfaces of said skirt or wall.

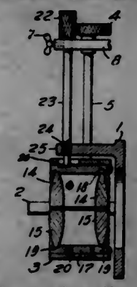
1,922,962
POWER DRIVEN SWIVELED WHEEL
Homer T. Lambert, Huntington, W. Va.
Application April 19, 1930, Serial No. 445,713
Renewed January 13, 1933
9 Claims. (Cl. 180—43)

1. The combination, with a load-carrying axle and a carrying wheel swiveled directly to a rigid portion of said axle, of a brake housing outward of the wheel, and driving means engaging said



housing for delivering power to the wheel while leaving the same free for swiveling movement.

1,922,963
APPARATUS FOR LENS ADJUSTMENT IN DOUBLE LENS PROJECTION
George Lane, New Haven, Conn., and John E. Patterson, Poughkeepsie, N. Y.
Application June 9, 1928. Serial No. 284,152
13 Claims. (Cl. 88—16.6)

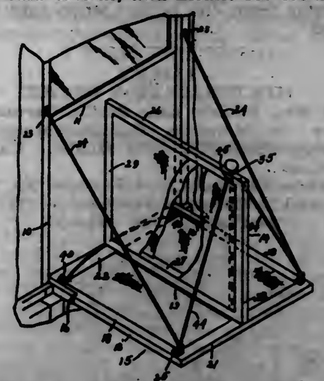


1. Means for improving the effects of picture projection where two pictures are simultaneously projected through two lenses upon the same screen area, including two lens barrels spaced from each other, a pair of lenses in each barrel, a spring head carrying both barrels at one end thereof and tending to separate them at the other end, and adjusting means having one end engaging a bearing surface on one barrel opposing the tendency of the spring head.

1,922,964
WIND DEFLECTOR SHIELD
Charles Larsen, Astoria, N. Y.
Application October 16, 1931. Serial No. 569,312
2 Claims. (Cl. 98—44)

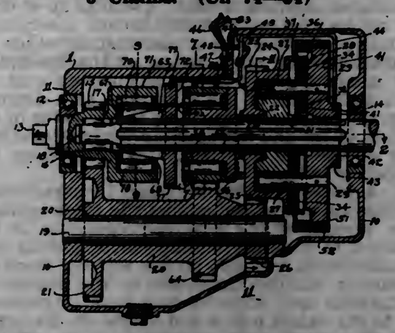
1. A wind deflector shield comprising a pair of rectangular shields, one of said shields comprising a rectangular framework and a center piece bisecting the same, fabrics secured to said center piece and said framework forming a wind proof shield, the other of said shields comprising a rectangular framework and wind proof fabric secured to said framework on each side thereof, means for holding the first of said shields to a window frame, means for pivoting the second of

said shields at one end of the center piece of the first of said shields, and means for locking the



other end of said second shield at a desired angle to said first shield.

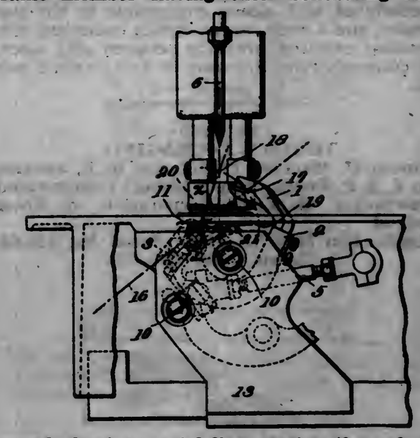
1,922,965
TRANSMISSION GEAR
Hope Darring Lester, Miami, Fla.
Application February 2, 1932. Serial No. 590,474
3 Claims. (Cl. 74—34)



1. In a device of the kind described, an external gear wheel, an internal gear wheel concentric to the first wheel and surrounding the same, idler gears interposed between said gear wheels and each meshing with both of the gear wheels, a pair of clutch plates concentric to each other and each splined to a respective gear wheel of the first two gear wheels, other clutch plates each splined to a respective idler gear and movable into and out of simultaneous clutching engagement with the first two clutch plates, and means for releasably engaging the clutch plates and forcing them into clutching relation.

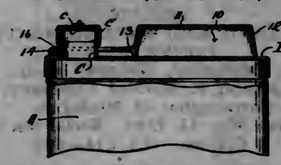
1,922,966
OVEREDGE STITCH FORMING MECHANISM
Friedrich Lutz, Stuttgart, Germany, assignor to Union Special Maschinenfabrik, G. m. b. H., Stuttgart, Germany
Application December 9, 1929, Serial No. 412,792, and in Germany January 9, 1929
1 Claim. (Cl. 112—162)

In an overedge stitch forming mechanism, the combination of a needle, an under looper, an overedge looper, a shaft on which said overedge looper is mounted for oscillation, a bracket for supporting said shaft, said shaft being disposed so that the looper moves in a path passing in rear of the under looper and in front of the needle, and a frame member for adjustably supporting said bracket, said bracket and frame member having their contacting faces



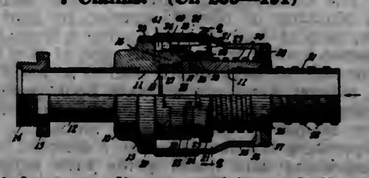
curved about an axial line passing through the axial line of oscillation of the overedge looper and a joint in the path of movement of the looper midway between the extremes of movement of said overedge looper.

1,922,967
TOOTH POWDER DISPENSER
Paul J. Mandabach, Chicago, Ill.
Application May 1, 1933. Serial No. 668,881
7 Claims. (Cl. 221—65)



1. The combination with a tooth powder can having a flat elongated top and a discharge neck extending upward from the top, of a powder receptacle adapted to be inverted upon the top of the can and having a handle shank extending therefrom parallel to the bottom of the receptacle and with the top of the can, the handle shank having a key hole slot therein, one portion of the slot fitting the neck of the can and the other portion of the slot being larger than the cap.

1,922,968
HOSE COUPLING
Joseph L. Martin, Union City, N. J.
Refiled for abandoned application Serial No. 196,646, June 6, 1927. This application October 22, 1930. Serial No. 490,345
7 Claims. (Cl. 285—191)



1. A hose coupling comprising a hollow body having a conical seat, a hollow cone engageable

therewith, a tubular extension on said cone, a sleeve movable on said body and extension, a series of spaced pads on said body having recesses in their edges opposed to said seat, lugs interiorly of said sleeve engageable in the pad recesses, and a compression spring encircling said extension exerting pressure between said sleeve and cone whereby the cone is held against said seat.

1,922,969

TEXTILE PACKAGING

Kenneth D. MacColl, Providence, R. I., assignor to J. & P. Coats (Rhode Island) Incorporated, Pawtucket, R. I., a Corporation of Rhode Island

Application May 31, 1930. Serial No. 458,644
3 Claims. (Cl. 206—51)



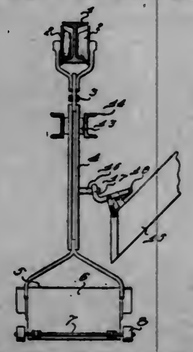
1. In combination, a folded textile strip, a label band extending transversely of the strip and around said folded strip, and a protecting cover over said label band and said folded strip to lock the strip against unfolding, said label band and said cover having aligned openings located inwardly from the edges of said band, and said strip having a free end extending through said aligned openings.

1,922,970

SELF-LOADING AND UNLOADING TROLLEY CONVEYER

Charles A. McKenny, Detroit, Mich., assignor to The Joseph E. Barrett Company, Detroit, Mich., a Corporation of Michigan

Application May 15, 1930. Serial No. 452,756
6 Claims. (Cl. 214—60)



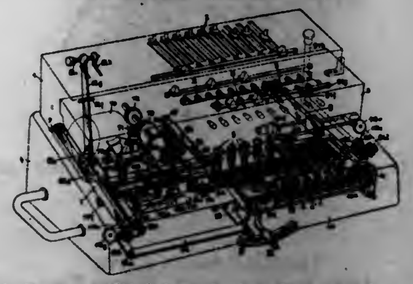
1. The combination with a trolley conveyer, of a plurality of buckets carried by said conveyer, each of said buckets having a hinged side, a pivoted hook mounted upon each of said buckets for holding said hinged wall in a closed position, a lever for operating said hook positioned at varying points transversely on said buckets, means supported adjacent the unloading point for operating the said lever on a selected bucket for releasing said hook, guide rails supported adjacent the unloading points for said buckets, and buffer plates carried by said buckets and engaging said guide rails to tilt said buckets to an angular position whereby said hinged wall falls away from the bucket when said hook is released.

1,922,971

MULTIPLICATION DEVICE

Gustav Mez, Dahlem near Berlin, Germany, assignor to Mercedes Buromaschinen-Werke, Aktiengesellschaft, Zella-Mehlis, Thuringia, Germany

Application February 2, 1928, Serial No. 251,429, and in Germany February 5, 1927
29 Claims. (Cl. 235—63)



1. In a multiplying device for carrying out shortened or abbreviated multiplications by accumulated addition, a feeler, a setting up or driving mechanism, a multiplier setting mechanism including shifting studs, calculating studs as symbols for the digit values of the multiplier, and means for setting one calculating stud for each digit value of the multiplier at a distance from the feeler corresponding to the value of the digit to be set and for simultaneously setting certain of the shifting studs for controlling the method of calculation.

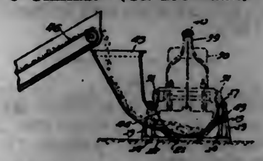
8. A device as claimed in claim 1, characterized in that the means for setting the studs includes keys, certain of the keys corresponding to the values 0 to 5 acting on the corresponding calculating studs and also on the shifting studs for producing additive operation of the setting up mechanism and other of said keys corresponding to the values 6 to 9 and acting on the corresponding calculating studs and on the shifting studs producing subtractive operation of the setting up mechanism.

1,922,972

METHOD AND MEANS FOR HANDLING EXCAVATED MATERIAL

Louis A. Miller, Kansas City, Mo.

Application July 28, 1931. Serial No. 553,615
9 Claims. (Cl. 198—224)



1. In a system for handling excavated material, the combination of a sectional chute adapted to be laid upon the ground to extend from a loading point to a point where discharge of material is desired, and a power operated traction device travelling along the chute as a track and equipped with means entering the chute for moving material therealong, the chute having lateral inlet entirely below its top.

1,922,973

GRATER

Stephen A. Mischanski, Wallington, N. J.

Application January 7, 1932. Serial No. 585,345
1 Claim. (Cl. 146—179)



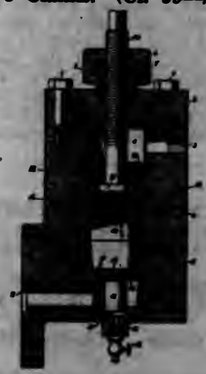
In a grater, a rod bent between its ends to form a handle and with parallel sides, a body spaced from the bent portion of the rod with the sides bent around the parallel sides of the bar, the body having a central opening with side and end flanges extending into the opening below the plane at the top of the body to form a seat, a cutter member having sides and one end disposed on the side flanges and one of the end flanges, the cutter member having a tongue disposed under the other end flange, a flange pivoted under the said end of the cutter member for engaging the under side of the adjacent end flange of the body, a box open at top and bottom and having sides the bottoms of which are bent around the sides of the body at the parallel sides of the bar and which slide thereon, and a presser member disposed in the box for pressing material in the box against the cutter member.

1,922,974

HOMOGENIZER

George J. Musgrove, Washington, D. C.

Application January 10, 1928. Serial No. 245,683
3 Claims. (Cl. 99—2)



1. In a homogenizer, the combination with a casing having a bore therein, a reciprocatory valve mounted within the bore and spaced therefrom to provide means for receiving cream to be molded, said valve having a roughened surface for breaking up the fat globules previous to the introduction of the cream to the molding space.

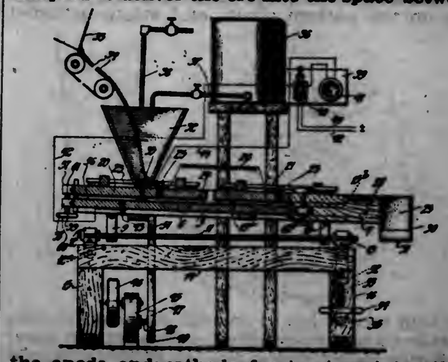
1,922,975

MEANS FOR THE RECOVERY OF PRECIOUS METALS SUCH AS GOLD, PLATINUM, AND THE LIKE FROM ORE BODIES

Victor Charles John Nightingall, Heidelberg, near Melbourne, Victoria, Australia

Application April 15, 1931, Serial No. 530,366, and in Australia December 10, 1930
4 Claims. (Cl. 209—195)

3. In apparatus for the recovery of precious metals, in combination a laterally rockable table arranged at an inclination, a mercurized cathode disposed in said table, a superimposed anode and said cathode being spaced from said superimposed anode, a slot in said anode in alignment with a slot in a feed hopper, the said slots being adapted to deliver the ore into the space between



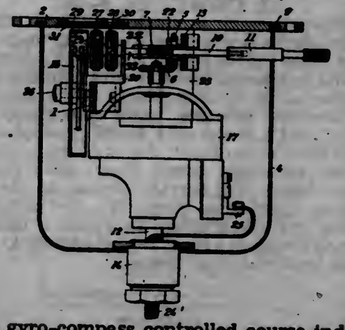
the anode and cathode for treatment together with a solution of an alkaline base metal such as potassium sodium and water.

1,922,976

COURSE INDICATOR FOR REPRODUCING THE INDICATION OF A GYROCOMPASS

Wolfgang Otto, Kitzeberg near Kiel, Germany, assignor to the Firm Nederlandsche Technische Handel Maatschappij "Giro," The Hague, Netherlands

Application August 17, 1929, Serial No. 386,637, and in Germany January 5, 1928
5 Claims. (Cl. 235—91)



1. A gyro-compass controlled course indicator for indicating in numerals the degree of the angle of the line of travel with any given direction, comprising the combination with a gyro-compass-controlled follow-up motor of a counter driven by said motor and including a plurality of interconnected numbering elements each provided with a set of numerals and movable to select for exhibition a single numeral from each set, the selected numerals constituting a figure representing the angle of the line of travel with a given direction.

1,922,977

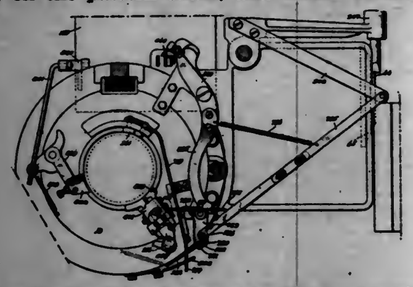
CIRCULAR KNITTING MACHINE

Albert E. Page, Brooklyn, N. Y., assignor to Scott & Williams, Incorporated, New York, N. Y., a Corporation of Massachusetts

Application August 31, 1932. Serial No. 631,249
10 Claims. (Cl. 66—40)

1. A circular knitting machine having independent needles, a clearing cam for said needles, and means for moving said cam from clearing to non-clearing position, in combination with a pattern chain, a lug on said pattern chain for

causing said cam moving means to lower the cam from clearing position, mechanism for actuating the cam moving means intermittently, a second lug on the pattern chain, and means actuated



by said second lug to connect said cam moving means to said intermittent mechanism to lower the cam from clearing position independently of said first lug.

1,922,978

PROCESS OF PRODUCING VAT DYESTUFF PRINTS AND CLOSELY ADJACENT THERETO ANILINE BLACK PRINTS ON THE SAME FABRIC

Ernst Pfeffer, Frankfort-on-the-Main-Schwanheim, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application May 7, 1929, Serial No. 361,260, and in Germany May 16, 1928
4 Claims. (Cl. 8—5)

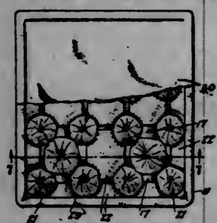
1. The process of producing vat dyestuff prints and closely adjacent thereto aniline black prints on the same fabric, which comprises printing the material in separate designs with a printing paste comprising an aniline black preparation, and with another printing paste comprising a vat dyestuff and a thickening agent capable of being precipitated by an alkali, but containing no alkali and no reducing agent, then developing the aniline black, by shortly steaming the material, and thereupon fixing the vat dyestuff by treating the material in an alkaline bath containing a reducing agent, and subsequently steaming the material thus treated.

1,922,979

AIR MATTRESS OR CUSHION

Louis Rechtschaffen, Bronx, N. Y.

Application May 6, 1932. Serial No. 609,691
2 Claims. (Cl. 5—348)



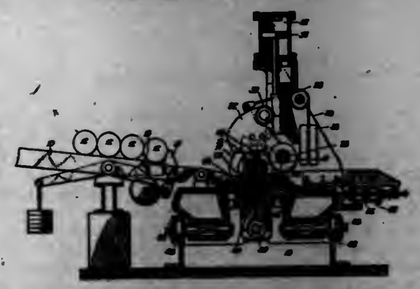
1. A cushion or mattress comprising a covered receptacle, a cushioned pillow top, means on said cushioned pillow top cooperating with said receptacle securing said top to said receptacle, and a cushioning unit received within said receptacle, said cushioning unit including a lattice like air pillow and a plurality of tuft members within the lattice openings in said air pillow.

1,922,980

BILLET SURFACING MACHINE

Louis C. Reis, Duluth, Minn.

Application January 30, 1929. Serial No. 336,185
15 Claims. (Cl. 82—20)



1. A work holding clamp for use in billet surfacing machines and the like, having, in combination, a clamping head, a pivoted bolster carried by the clamping head and arranged for displacement relatively thereto, said bolster comprising a body portion and a work engaging member carried by the body portion and arranged for displacement relatively thereto.

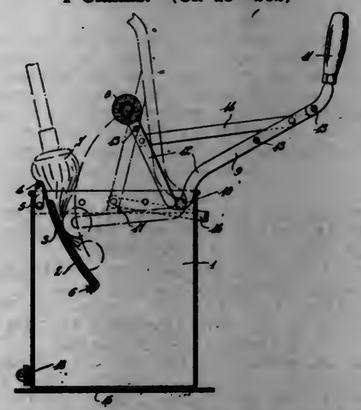
12. In a work grip, the combination with a lower jaw, having a flat rough gripping surface, means for adjusting the elevation of the lower jaw to accommodate the position of the work, a lever above the lower jaw, a power operated wedge for moving the lever down positively, a plate carried by said lever of a circular form mounted to turn freely on its axis, and a pair of jaws individually movable but mounted on said plate, whereby when the plate is brought down on the work supported by the lower jaw, the plate is free to swing on its axis to equalize the pressure of the two jaws against the work and clamp the work against said lower jaw even if the work is out of concentric position.

1,922,981

BUCKET OR LIKE RECEPTACLE

John William Robertson, Cheam, England, assignor to Arthur Charles Pearce, London, England

Application September 30, 1932, Serial No. 635,686, and in Great Britain December 22, 1931
4 Claims. (Cl. 15—262)



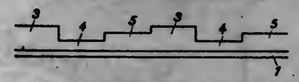
1. A mop wringer comprising a receptacle, an arcuate plate within the receptacle, and a roller pivotally mounted to move over and against the face of the arcuate plate when rocked to wring a mop, the path of movement of the roller relative to the plate increasing roller pressure with respect to the plate in the operative movement of the roller over the plate.

1,922,982

MANUFACTURE OF PHOTOGRAPHIC PICTURES

Carl Roehrich, Berlin, Germany, assignor to the firm Silfree Aktiengesellschaft, Vaduz, Germany

Application February 9, 1931, Serial No. 514,672, and in Germany February 14, 1930
22 Claims. (Cl. 95—5)



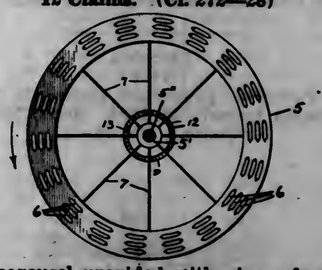
2. The manufacture of photographic pictures on colloid layers, sensitized for being hardened where light struck, which contains the steps of exposing the sensitized layer to light under a negative; of moistening said layer, and of applying dry heat to the layer for a comparatively short time while the layer is still sensitive, whereby complete hardening is achieved in section, which had been incompletely hardened during the exposure, the heating period being sufficiently short in time as to leave the unexposed sections of said layer unhardened.

1,922,983

MERRY-GO-ROUND

Francis F. Smith, Old Orchard Beach, Maine

Application September 10, 1931
Serial No. 562,161
12 Claims. (Cl. 272—28)



1. A carousel provided with circumferentially spaced signal means and means whereby said signals are automatically and successively operated in predetermined sequence by the revolving of the carousel.

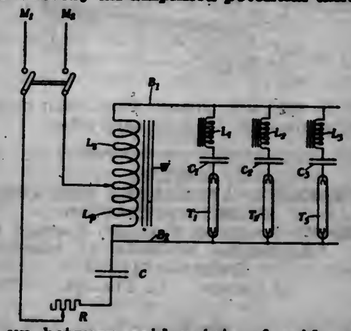
1,922,984

ELECTRICAL SUPPLY EQUIPMENT FOR DISCHARGE TUBES

Leonard Henry Soundy, London, England, assignor to Uneon Limited, London, England, a British company

Application February 18, 1932, Serial No. 593,889, and in Great Britain May 12, 1931
6 Claims. (Cl. 176—124)

1. An electrical supply equipment for luminous tube and like devices which require a high potential for starting, comprising a supply circuit connected to a low tension source and including a coil and a condenser, and circuit connections from spaced points of said coil to a said device and including an impedance, said coil and condenser being near series resonance at a frequency of the alternating current flowing in said supply circuit whereby an amplified potential difference



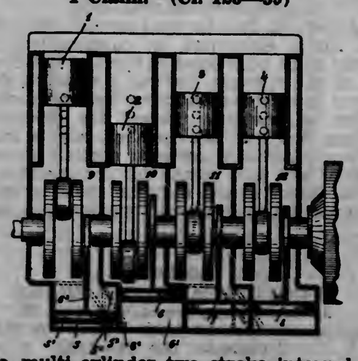
is set up between said points of said coil for starting said device, and said impedance having a reactance cooperative with the reactance of said supply circuit for preventing departure of said supply circuit from series resonance when said device is in normal operation.

1,922,985

CHARGING PUMP FOR MULTICYLINDER TWO-STROKE COMBUSTION ENGINES OR COMPRESSORS

Walther Steiger, Bern, Switzerland

Application October 15, 1931, Serial No. 569,047, and in Germany October 22, 1930
1 Claim. (Cl. 123—59)



In a multi-cylinder two stroke internal combustion engine and in combination with charging pumps, power cylinders arranged in groups of pairs, a common crankshaft with cranks displaced in each pair at 180°, pump cylinders one for each power cylinder and juxtaposed to them with regard to said crank shaft, separate crank cases open towards the chambers of each set of power and pump cylinder, passageways mutually connecting in each group the crank cases of one power cylinder to the compression chamber of the pump of the other cylinder, air inlets arranged so as to be overlapped in the lower dead center position of the power piston and exhaust orifices arranged so as to be overlapped in the upper dead center position of the power piston.

1,922,986

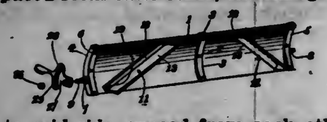
WIND BOARD

Charles M. Stith, Liberal, Kans.

Application November 10, 1931
Serial No. 574,187
7 Claims. (Cl. 269—363)

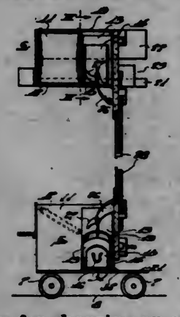
2. A wind board comprising, an adjustable, rectangular, concavo-convex body, and a pair of

deflectors secured to the concaved side of said body, spaced from each other, extending at right



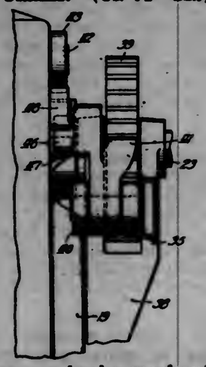
angles to said side, spaced from each other and inclining inwardly towards each other.

1,922,987
CHARGING APPARATUS FOR OPEN-HEARTH FURNACES
Folke W. Sundblad, Colorado Springs, Colo.
Application November 16, 1932
Serial No. 642,863
6 Claims. (Cl. 214—26)



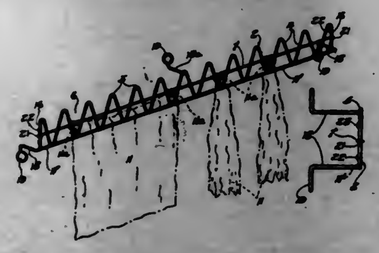
1. Apparatus for charging an open-hearth furnace, which comprises, in combination, a car adapted to be positioned in front of the charging door of the furnace, having a recessed portion adapted to receive a charging box and having an opening at one end thereof for passing said charging box into the furnace, and a movable arm located in said recessed portion above said charging box, and means for reciprocating said arm to thrust excess material lying in said recessed portion through said opening into the furnace.

1,922,988
HAND OPERATED CAR BRAKE
John P. Templeman, Chicago, Ill.
Application April 20, 1928. Serial No. 271,462
4 Claims. (Cl. 74—112)



1. In railway car brake mechanism having a gear and drum adapted for connection with a brake chain and a pinion for rotating said gear and drum, a housing for said pinion, gear and drum, a brake shaft for said pinion projecting from said housing, a hand wheel on said shaft, a ratchet wheel rigid with said shaft outside said housing, a lever pivoted about said shaft, a pawl pivoted on said lever, and guide means on said housing adapted to guide said pawl toward said ratchet wheel upon rocking of said lever out of its normal resting position.

1,922,989
DEVICE FOR SUSPENDING TOWELS, DRYING CLOTHS, AND OTHER OBJECTS
Albert Augustus Terry, Middle Brighton, Victoria, Australia
Application May 27, 1931, Serial No. 540,461, and in Australia February 16, 1931
11 Claims. (Cl. 211—89)



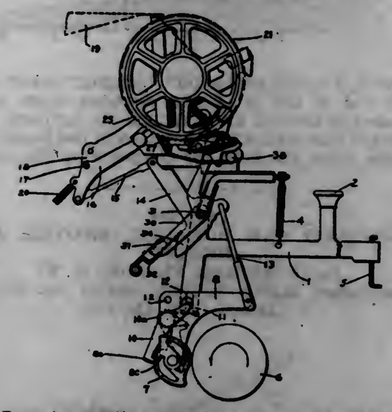
1. A towel rack comprising a front member adapted for attachment to a supporting structure and having a series of longitudinally spaced upstanding salients or tongues having upwardly converging side edges and separated by gaps, and a flexible line extending longitudinally behind said front member in such a plane as to intersect said tongues and said gaps intermediately of their height, said flexible line cooperating with the tongues to retain a towel therebetween.

1,922,990
TOY
Parker C. Thompson, Elmira, N. Y.
Application January 18, 1932. Serial No. 587,355
1 Claim. (Cl. 46—32)



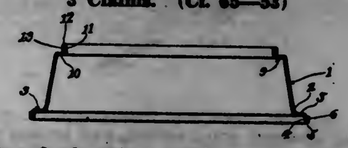
A toy comprising a wheel-like element including a rounded rim and a hub integrally connected thereto and provided with a bore, a hollow extension formed integrally with the hub and in alinement with the bore thereof and arranged to extend at right angles to the wheel-like element, a grooved spool formed integrally with the hub and having a bore alining with the bore of the hub, a headed spindle extending through the extension, hub and spool and having a pointed end and spaced from the spool, a plate on the spindle between the headed end thereof and the end of the extension and free to rotate relative to the spindle, a yoke pivoted to the ends of the plate, a cord attached at one end to the yoke and positioned across the rounded rim and wound on the spool, and a handle having a socket to removably receive the pointed end of the spindle.

1,922,991
TYPEWRITING MACHINE
Russell G. Thompson and Chester W. Crumrine, Rochester, N. Y., assignors to Electromatic Typewriters, Inc., Rochester, N. Y., a Corporation of New York
Application September 11, 1930
Serial No. 481,216
8 Claims. (Cl. 197—160)



1. In a typewriting machine having type bars, printing types thereon, key controlled means for actuating the type bars, of an inking ribbon with which the type bars cooperate, spools on opposite sides of the type bars on which the ribbon is carried, ratchets on said spools, pawls adapted to cooperate with said ratchets to turn the spools to wind the ribbon thereon, a rock shaft extending between said ratchets, means on said shaft adapted to operatively engage said pawls and retain one of them out of engagement with its ratchet while the other engages its ratchet, key controlled levers on which said pawls are mounted, and means actuated by the tension of the ribbon for operatively connecting said shaft with one of said key controlled levers for turning the shaft in one direction to release one pawl to engage its ratchet and to move the other pawl out of engagement with its ratchet to reverse the feeding direction of the ribbon and in the other direction to move the first pawl out of engagement with its ratchet and release the second pawl to reengage its ratchet.

1,922,992
PROTECTOR FOR FOODS
Thomas Tighe, Jr., Chicago, Ill.
Application August 25, 1932. Serial No. 630,452
3 Claims. (Cl. 65—53)

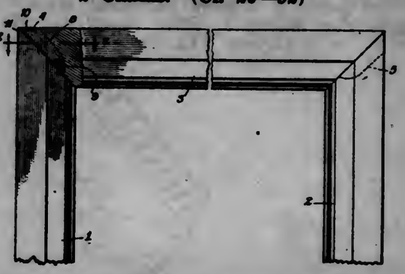


3. In a food protector, a body portion of ring-like form provided at its bottom with an outwardly directed annular lower supporting flange therefor and at its top with an inwardly directed annular upper supporting flange for a dish adapted to be arranged in superimposed relation with respect to the protector, said upper flange being of angle-shape cross section to provide a horizontal leg and a vertical leg, the former extending inwardly from the top of said body portion and the vertical leg extending upwardly from the inner side of the horizontal leg, the said vertical leg consisting of a pair of vertical portions snugly abutting throughout, one of said portions of said vertical leg merging at its upper end into the upper end of and being of less height than the other portion of the vertical leg.

1,922,993
NEW RESERVING PREPARATION AND RESERVE DYEING PROCESS
Gustav Torinus, Bad Soden on Taunus, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware
No Drawing. Application August 20, 1930, Serial No. 476,730, and in Germany September 11, 1929
16 Claims. (Cl. 8—6)

11. A new reserving preparation comprising polyvinyl alcohol and an oxidizing agent.

1,922,994
TRIMMING JOINT
Charles G. Voigt, Hicksville, N. Y.
Continuation of application Serial No. 532,064, April 22, 1931. This application November 25, 1932. Serial No. 644,411
2 Claims. (Cl. 20—92)

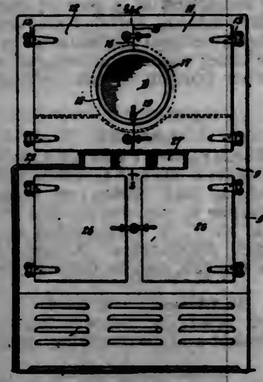


1. In a joint for door trim and the like, the combination with the upper end of a pair of upright members and a top member connecting the upright members, each of the upright members having a diagonally positioned upper edge and the top member having a mating edge at each end, one of said upright members having an integral tongue extending from said diagonal edge, the other having a socket, said top member having at one end a socket for the accommodation of said tongue and the opposite end a projecting tongue fitting into the socket of the upright member, said tongues and sockets being formed to properly align the top member with the upright members when the respective tongues are snugly fitted within their respective sockets, said tongues and sockets extending across only part of the edges of said members whereby there is presented interlocking and aligning members and abutting shoulders adjacent thereto.

1,922,995
REFRIGERATOR CABINET
Frederick Wallach, New York, N. Y., assignor of one-half to Paul Munk, New York, N. Y.
Application August 9, 1932. Serial No. 628,094
1 Claim. (Cl. 62—32)

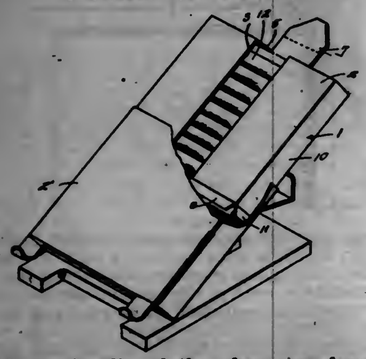
A refrigerator having a doorway in its front, a support in the refrigerator adapted to receive a beer keg inserted through the doorway and support the keg at an angle in the refrigerator, with one end of the keg located in the doorway, a pair of doors which, in combination with the

end of the keg, are adapted to close the doorway, said doors having recesses in their mating edges



engaging the keg, and gaskets in the recessed portions of the doors engaging the keg to effect a tight juncture therewith.

1,922,996
CIGARETTE SUPPLY CLIP OR RECEPTACLE
Charles E. Wester, Ironwood, Mich.
Application March 3, 1931. Serial No. 519,890
3 Claims. (Cl. 206—41)



1. A supply clip of the character described, comprising a flat receptacle having front and back walls, side edge walls and one end edge wall, the opposite end edge being opened throughout, a flap extending throughout the length of and projecting from the front and back wall at the edge of each adjacent the open edge of the receptacle, coacting flaps at the ends of the side walls adjacent the open edge of the receptacle, said front wall having a relatively narrow opening cut therein from adjacent the attached flap to and extending across the said one end edge wall, and a handling tab attached to the back wall at that end of the said opening which extends across the said one end wall, said tab being of substantially the same width as the opening to permit of its being folded over to lie therein.

1,922,997
COMBINATION LEVEL AND GAUGE
Harlen Lee Widner, Fayetteville, Tenn.
Application May 15, 1931. Serial No. 537,674
1 Claim. (Cl. 33—212)

In an instrument of the character described, a beam having a straight lower edge, a spirit level carried in the beam and exposed through its upper edge thereof and arranged with one end lower than the other, a scale adjacent to said level and calibrated for reading of superelevation of six inches at one end and a reading of zero superelevation or horizontal near the other end



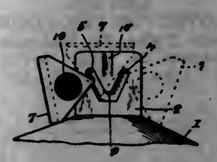
thereof, a compressible bulb communicating with one end of the level and adapted when compressed to shorten an air bubble in the level, and a finger operated screw mounted in the beam and active upon the bulb for compressing the same.

1,922,998
COMBINED PAN SCRAPER, SHOVEL, AND BROOM
Jacob Williams, Flushing, N. Y.
Application March 9, 1932. Serial No. 597,769
2 Claims. (Cl. 15—111)



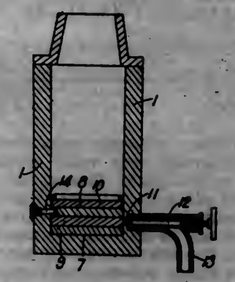
1. A combination tool comprising a shovel having its outer edge sharpened and provided with angle sides and a back, a substantially rectangular brush having a head fixed between the sides, means on the shovel to reinforce the back thereof and engaged by one of the corners of the head, a handle carried by the back and entering the head of the brush, and the active face of the bristles of the brush being of a length to contact with a floor surface in a plane with the sharpened edge of the shovel when the device is inverted to provide a combined scraper and brush.

1,922,999
COLLAPSIBLE TUBE CAP
Thomas Williams, New Castle, Pa.
Application July 22, 1932. Serial No. 624,093
3 Claims. (Cl. 221—60)



1. A cap for tubes comprising a neck of rectangular shape in cross section and having a discharge opening, a closure consisting of top and side walls to fit over the neck for closing the discharge opening, said neck having in opposite faces thereof V-shaped grooves forming shoulders, and projections on the side walls of the closure element and fitting in said grooves to slidably connect the closure element to the neck and adapted to engage the shoulders for drawing the top wall of the closure element towards the discharge opening in the neck.

1,923,000
PRODUCTION OF METAL CASTINGS
Richard William Bailey, Hale, England, assignor to Associated Electrical Industries Limited, a Company of Great Britain
Application November 17, 1931, Serial No. 575,628, and in Great Britain December 23, 1930
5 Claims. (Cl. 22—200)

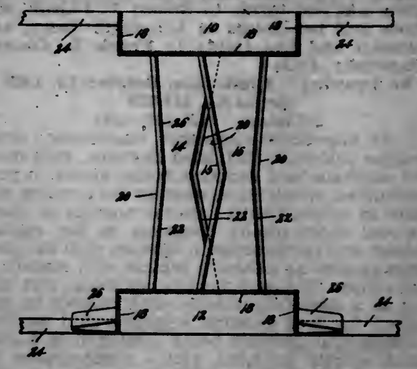


1. The process of producing metal castings, comprising introducing a low melting point metal into the lower portion of a mould, covering the metal with a plate, and pouring molten metal to be cast into the mould, said plate having a capacity to transmit heat from the molten metal to said low melting point metal at a rate which will cause the low melting point metal to melt after at least a part of the metal to be cast has been poured into the mould, whereby the low melting point metal is caused to flow between the solidifying casting and the walls of the mould.

4. The process of producing metal castings, comprising introducing into the lower portion of a mould a lower quantity of metal having a low melting point, covering said lower quantity of metal with a plate having a high thermal capacity and resistance to the flow of heat, introducing into the mould above said plate an upper quantity of metal having a low melting point, covering said upper quantity of metal with a plate having a lower thermal capacity and a lower resistance to the flow of heat than those of the first-named plate, pouring into the mould the molten metal to be cast whereby said upper quantity of low melting point metal is fused before the lower quantity of low melting point metal is fused and said upper and lower quantities of low melting point metal are caused to flow between the poured molten metal and the wall of the mould as said poured metal solidifies, and withdrawing from the mould a quantity of the first-fused low melting point metal.

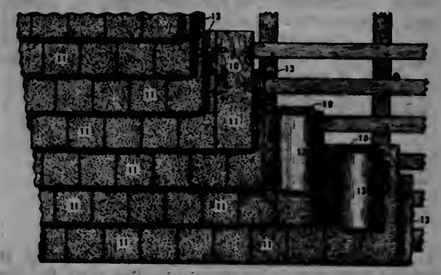
1,923,001
RESTRAINING DEVICE
Elizabeth A. Haga, Berwyn, Ill., assignor to Earnshaw Knitting Company, Newton, Mass., a Corporation of Massachusetts
Application May 26, 1931. Serial No. 540,070
3 Claims. (Cl. 128—134)

6. A device of the character described comprising a rectangular body portion of textile fabric having a central longitudinal neck opening, the side portions of said body being adapted to serve as shoulder bands, and a transverse band of textile material secured by stitching to each end of said body portion; said transverse bands being provided with end tapes for fastening said



device to a fixed support for limiting the movement of the wearer.

1,923,002
SHINGLE ROOF
Robert T. Johnston, Plainfield, N. J., assignor to Hyland R. Johns, New York, N. Y.
Application July 16, 1928, Serial No. 292,983
Renewed February 16, 1933
5 Claims. (Cl. 108—9)



1. In a roof, the combination with non-lifting tapered shingles which are weather resistant over at least their exposed face and edges, and arranged in overlapping courses having a substantial head lap, of a flexible sheathing material between contiguous shingles under the exposed portions and extending well over the head lap of the next lower shingle course and furring strips to which said shingles are secured, said strips being spaced apart between centers, a greater distance than one third the length of a shingle and less than one half the shingle length.

1,923,003
ZIRCONIUM REFRACTORIES
John D. Morgan, South Orange, N. J., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware
No Drawing. Application June 5, 1930
Serial No. 459,427
5 Claims. (Cl. 23—110)

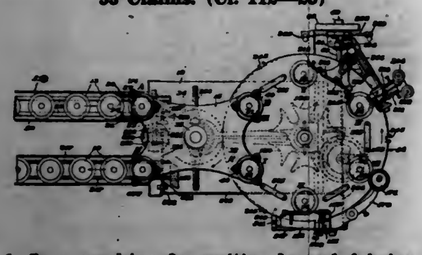
1. The compound $7ZrO_2.2SiO_2$.

3. The method of making the compound $7ZrO_2.2SiO_2$ which consists in melting zircon and maintaining the temperature above the fusion point until silica ceases to sublime off the melt.

1,923,004
INSECTICIDE
Wilford Seitz, Sandusky, Ohio, assignor of sixteen and two-thirds to Robert T. Judson, sixteen and two-thirds to Leland P. Spore, and sixteen and two-thirds to Frank B. Cooney, Sandusky, Ohio
No Drawing. Application October 23, 1928 Serial No. 314,529
2 Claims. (Cl. 167—34)

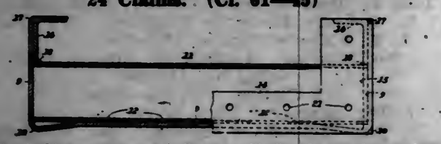
1. An insecticide compound, comprising: dried nicotine sulphate, and dried dextrine, said nicotine sulphate and dextrine being mixed in predetermined proportions, wherein the nicotine sulphate in solution with liquid is noxious to insect life and substantially harmless to the subject treated, and the dextrine in solution with the same liquid acts as an adhesive vehicle with respect to said subject for said nicotine sulphate, and also acts as a spreading vehicle with respect to said subject for said nicotine sulphate, said nicotine sulphate and dextrine being combined in a solid tablet soluble in liquid, and a disintegrator for said tablet comprising bicarbonate of soda and tartaric acid incorporated in said tablet in solid form and in proportions for effecting rapid disintegrating of the ingredients of said tablet in the liquid in which the tablet is dissolved.

1,923,005
MACHINE FOR UNITING LOOPED FABRICS
Gertrude Vagler, Brooklyn, N. Y., assignor to Sulloway Mills, Franklin, N. H., a Corporation of New Hampshire
Application June 16, 1931. Serial No. 544,790
53 Claims. (Cl. 112—25)



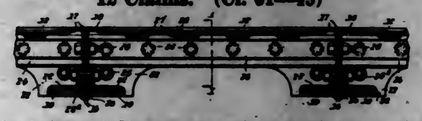
1. In a machine for uniting looped fabrics, in combination, heads having impaling pins for the fabrics, stitching mechanism, operating means therefor, a carrier for supporting the heads and advancing them to different points of operation, means for presenting the heads to a transfer point, and a transferrer for delivering the heads from the transfer point onto said carrier.

1,923,006
TUNNEL LINER
Robert V. Proctor, Youngstown, Ohio, assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio, a Corporation of Ohio
Continuation of application Serial No. 367,729, June 1, 1929, and in Great Britain July 23, 1930. This application May 26, 1931. Serial No. 540,149
24 Claims. (Cl. 61—45)



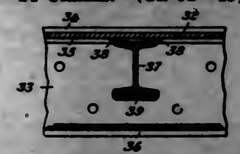
1. A liner segment for earth borings comprising a skin plate having side walls bent at an angle thereto, a thrust member extending along the inner surface of said skin plate abutting said walls, and curved portions connecting the side walls and the skin plate and being offset relative to the latter.

1,923,007
TUNNEL LINER
Robert V. Proctor, Youngstown, Ohio, assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio, a Corporation of Ohio
Application May 28, 1931. Serial No. 540,640
12 Claims. (Cl. 61—45)



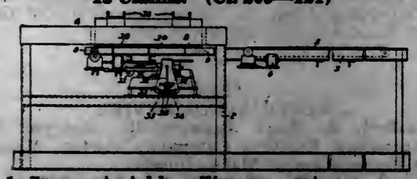
1. A tunnel liner segment comprising a plate curved longitudinally, side walls extending perpendicularly to the plate, flanges on said walls parallel to said plate and thicker than a portion, at least, of said side walls, and reinforcing members extending transversly of the plate, abutting said side walls, the portions of the plate adjacent said side walls being offset permitting a close fit between said members, the plate and side walls.

1,923,008
TUNNEL LINER
Robert V. Proctor, Youngstown, Ohio, assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio, a Corporation of Ohio
Application June 22, 1931, Serial No. 546,261
Renewed February 10, 1933
14 Claims. (Cl. 61—45)



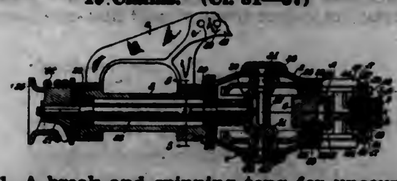
1. A tunnel liner segment comprising a back plate, side walls welded to said plate, and a transverse thrust member extending across said plate having dished flanges in contact therewith, welded to said plate.

1,923,009
METHOD AND APPARATUS FOR HANDLING MATERIALS
Frank S. Miller and James Farrington, Steubenville, Ohio
Application November 4, 1931. Serial No. 572,948
13 Claims. (Cl. 209—121)



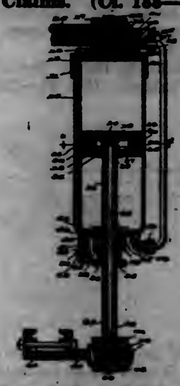
1. In a material handling apparatus, a movable supporting platform, means for lifting material from said platform and removing it therefrom in substantially the same horizontal plane, and means responsive to different movements of said platform for selectively rendering the lifting means effective to cause movement of material therefrom in predetermined different directions.

1,923,010
TONG
Harry C. Johansen, Michigan City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts
Application March 31, 1931. Serial No. 526,633
19 Claims. (Cl. 81—57)



1. A break and spinning tong for uncoupling drill rod joints including a casing, rod gripping means rotatably mounted on said casing, means for locking said gripping means against rotation relative to said casing in one direction, said locking means always permitting free rotation of said gripping means relative to the casing in the opposite direction, means for rotating said casing together with said gripping means, means for limiting rotation of said casing, and means for rotating said gripping means relative to said casing in aforesaid opposite direction and when said casing is held against rotation by said limiting means to uncouple the rod joint, said locking means releasing automatically upon rotation of said gripping means relative to the casing in aforesaid opposite direction.

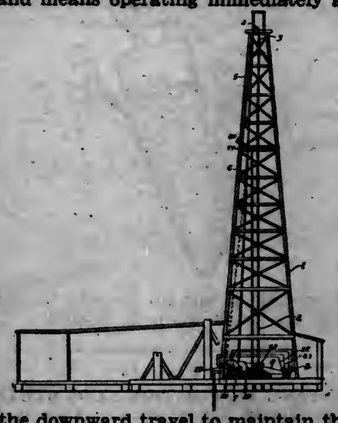
1,923,011
SHOCK ABSORBER
Rollin H. Moulton, Berwyn, Ill.
Application July 5, 1928. Serial No. 290,624
28 Claims. (Cl. 188—88)



1. In a cushioning device, the combination of a cylinder, a piston mounted for sliding movement therein, a piston rod associated with said piston, means in said piston for causing flow of fluid into said cylinder from outside of said cylinder upon movement of said piston, and means extending from both ends of said cylinder for conducting fluid from one end of said cylinder to the other whereby fluid is conducted from one side of said piston to the other.

1,923,012
RAISING AND LOWERING DEVICE
George D. Parker, Riverside, Calif.; Clara B. Parker executrix of said George D. Parker, deceased
Application May 2, 1927. Serial No. 188,255
23 Claims. (Cl. 103—212)

1. In apparatus for reciprocating a weight in a vertical plane, the combination of a drum, a cable connected with the weight and having coils on the drum, said parts cooperating on the downward travel of the weight to rotate the drum, and means operating immediately at the



end of the downward travel to maintain the rotation of the drum and continue the rotation of the drum in the same direction and coil the cable on the drum to raise the weight for the upward travel.

1,923,013
APPARATUS FOR THE PREPARATION OF SEMICOLLOIDS AND UNIFORM COLLOIDS
Hermann Plauson, Darmstadt, Germany, assignor to Radiochemisches Forschungs-Institut, G. m. b. H., Darmstadt, Germany, a limited liability company of Germany
Application August 31, 1929, Serial No. 389,762, and in Great Britain November 8, 1928
5 Claims. (Cl. 83—22)

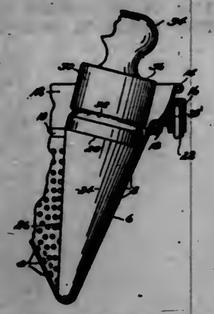


1. Apparatus for producing colloidal or substantially colloidal disintegration of material comprising a substantially cylindrical casing provided interiorly with a substantially annular series of longitudinally extending teeth, a plurality of intermeshing gear wheels within said casing rotatable on axes extending longitudinally of the casing, and means for rotating said gear wheels, the casing having inlet and outlet openings disposed so that material entering the casing passes between the gear wheels in its travel to the outlet opening and thus is caused to be crushed and to be thrown outwardly by the gear wheels against the annular series of teeth for further disintegration.

1,923,014
COLANDER
Clarence A. Rennacker, Kansas City, Mo.
Application June 24, 1932. Serial No. 619,018
8 Claims. (Cl. 146—172)

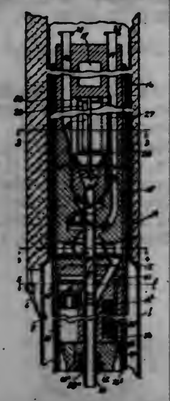
1. In a colander of the kind described, a perforated conical receptacle; a continuous arcuate, annular, divergent lip integral with the receptacle at its mouth; a series of spaced-apart brackets secured to said annular lip against its outer face; and a standard removably associated

with each bracket respectively, said brackets each having an inner face formed to snugly



fit the contour of said lip whereby to completely underlie the same when in position.

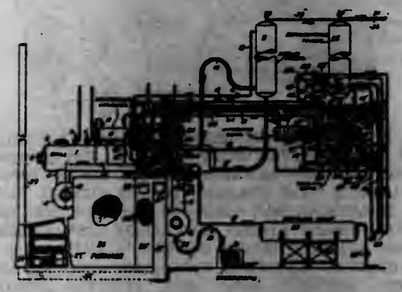
1,923,015
ADVANCING MOTOR DRILLING STRUCTURE
Harvey David Sandstone, Los Angeles, Calif.
Application February 3, 1931. Serial No. 513,110
15 Claims. (Cl. 255—4)



1. In drilling mechanism, a drill body consisting of superposed sections connected together by male and female joints, one of said sections being a cement distributing section having rotative actuating means, a revolving bit carried by the body, sealing means between said joints and means for revolving the bit.

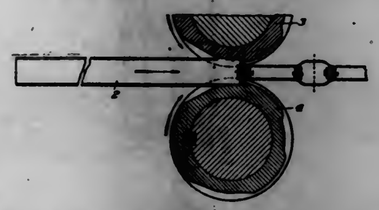
1,923,016
PROCESS AND APPARATUS FOR TREATING HYDROCARBONS
Arthur D. Smith, Chicago, Ill., assignor to Jenkins Petroleum Process Company, Chicago, Ill., a Corporation of Wisconsin
Application February 13, 1929. Serial No. 339,647
2 Claims. (Cl. 196—60)

1. A method of converting hydrocarbon oils into anti-knock gasoline which comprises subjecting hydrocarbon oils to a cracking temperature under pressure for a time sufficient to crack said oils in the liquid phase and evolve vapors therefrom, separating vapors so evolved from unvaporised hydrocarbon oils, conducting a portion of said vapors to a dephlegmating zone and therein separating out heavier fractions from said vapors as a condensate, retaining separate and substantially revaporizing said condensate, thereafter subjecting the resulting vapors to a cracking temperature for a time sufficient to crack said vapors in the vapor phase, removing vaporized oil products from said vapor phase cracking reaction to a fractionating zone, commingling therein vaporized oil products from a second vapor phase cracking reaction independent of said first-mentioned



vapor phase cracking reaction, separating out heavier fractions as a condensate from said commingled products to obtain anti-knock gasoline vapors, retaining separate and substantially revaporizing said condensates of heavier fractions, and thereafter subjecting the resulting vapors to said second vapor phase cracking reaction.

1,923,017
DIE ROLLING
William P. Witherow, Pittsburgh, and Paul L. Coyle, Coraopolis, Pa., assignors to Republic Steel Corporation, Youngstown, Ohio, a Corporation of New Jersey
Application June 3, 1929. Serial No. 367,878
20 Claims. (Cl. 80—30)



4. In the method of rolling, the steps consisting in rolling a leader so as to flatten and spread it over a major portion of its length but leaving certain portions unflattened, and then rolling the article on edge to thin and elongate the flattened portions, the reduction in the first and second passes being in the ratio of about 3 to 1 in those portions of the leader corresponding to the portion of the blank of minimum cross-section.

12. A rolling mill comprising a die rolling pass, a flattening pass spaced therefrom, and a support extending between the passes, said passes being spaced to permit edging of the articles being rolled between passes.

17. As an article of manufacture, a die rolled blank comprising alternate portions having major and minor axes, said portions being separated by transition portions without re-entrant angles, the major axis of one of such portions extending at an angle to the major axis of another of such portions.

1,923,018
MULTICYLINDER INTERNAL COMBUSTION ENGINE
Jean A. H. Barkeij, Los Angeles, Calif., assignor to George C. Arvedson, New York, N. Y.
Application September 14, 1925
Serial No. 56,323
36 Claims. (Cl. 123—52)



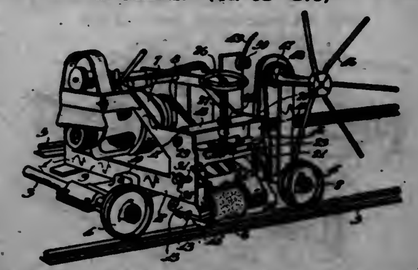
1. The combination in an internal combustion engine of a plurality of cylinders, said cylinders connected by individual branches to a single main conduit, said main conduit connected at each end with fuel mixing means, progressive suction periods from one end thereof and in retrogressive direction from the other end thereof during a single revolution of said engine and in reverse direction for the next revolution.

1,923,019
TOY
Roberto de Silva, San Antonio, Tex., assignor to Little Bear Specialties Company, a Corporation of Missouri
Application April 28, 1932. Serial No. 607,951
1 Claim. (Cl. 46—14)



A toy comprising, in combination, a multi-part body of truncated, oval, longitudinal cross-section including a central member, and end parts of equal size and weight on each side respectively of said central member; means for detachably connecting said end parts to the central member; a transversely arched annular face formed on said central member; an annular, continuous, central groove formed in said central member; a string secured to said central member with a portion of its length adjacent one end circumscribing the central member at the bottom of the said groove formed therein; a handle; a string interconnecting one of said end parts and said handle, the point of attachment of said string and body being on the axial center of said body whereby to allow rotation of the latter as it is spun by manipulation of the first mentioned string into and out of the receiving groove therefor; there being formations on said multi-part body and said handle permitting interengagement therebetween whereby said body may be received by said handle while the former is being manipulated by said first named string.

1,923,020
METHOD OF GRINDING TRACK RAILS
Cyril A. Fox, Oakmont, Pa.
Application October 4, 1932. Serial No. 636,153
2 Claims. (Cl. 51—178)



1. The method of eliminating substantially transverse irregularities occurring in track-rails which includes engaging the track-rail with the peripheral face of a grinding wheel having its axis disposed obliquely to a line extending transversely of the rail at right angles thereto, and effecting relative longitudinal movement between the track-rail and the grinding wheel while maintaining the engagement and the obliquity of the grinding wheel, whereby any grinding depressions are disposed angularly to the lines of contact made with the track rail by car wheels operating thereon.

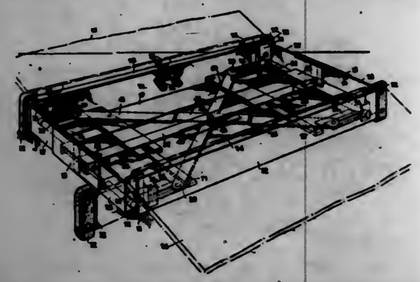
1,923,021
METHOD OF RECONDITIONING FILTER-AID MATERIAL
William P. Gee, Plainfield, N. J., assignor to The Texas Company, New York, N. Y., a Corporation of Delaware
Application September 26, 1930
Serial No. 484,698
1 Claim. (Cl. 252—2)

The process of recovering and reconditioning spent filter-aid material of the diatomaceous earth type previously used in the dewaxing of hydrocarbon lubricating oil by filtration at low temperature, said spent filter-aid material being associated with wax, oil and a comparatively small quantity of water, which comprises mixing the filter-aid and associated materials with a solvent of wax and oil such as a volatile fraction of petroleum, heating the mixture whereby a solution of wax and oil in the solvent is formed in which is suspended the filter-aid material and moisture adsorbed thereon, and then subjecting said suspension of filter-aid material to a continuous filtration operation at temperatures in excess of about 180° F. wherein a filter cake of filter-aid material is continuously built up on a filtering surface and a substantially moisture-free gas is continuously drawn through said cake while in position on the filtering surface and while at elevated temperature, whereby said spent filter-aid material is substantially freed from moisture and the solution of oil and wax, and reconditioned for further use in dewaxing oil.

1,923,022
LOOSE LEAF BINDER
Le Roi E. Hutchings, Tonawanda, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y.
Application July 29, 1930. Serial No. 471,475
5 Claims. (Cl. 129—13)

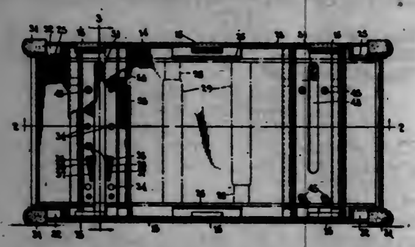
2. In a binder, a pair of relatively movable back members having pins extending therefrom,

locking units mounted on said back members, each of said units having a part engaging a pin on one back member and a part relatively movable with said first part engaging a pin on the other of said back members, and crossed links



pivoted at their centers and connected to said back members at the ends thereof for movement relative thereto and longitudinally thereof, said crossed links overlying said locking units to prevent their displacement from said pins during operation of the binder.

1,923,023
LOOSE LEAF BINDER
Le Roi E. Hutchings, Tonawanda, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y.
Application July 29, 1930. Serial No. 471,474
10 Claims. (Cl. 129—13)



1. In a binder, a pair of backs having slidable telescoping cooperation for relative movement together or apart, a locking member fixed to one of said backs, a locking member for slidably engaging said first locking member and fixed to the other of said backs, means for engaging said locking members to prevent relative sliding movement thereof in one direction, a slotted guide plate overlying and secured to one of said locking members, and means on the other of said locking members engaged in the slot of said guide plate for limiting the opening and closing movements of said backs.

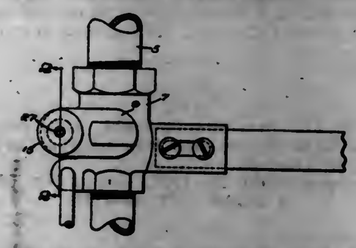
1,923,024
BRACKET FOR CURTAIN RODS
George M. Kenney and William C. Kenney, Cranston, R. I., assignors to Kenney Manufacturing Company, Cranston, R. I., a Corporation of Rhode Island
Application February 14, 1933. Serial No. 656,754
4 Claims. (Cl. 156—22)

4. A bracket for a tubular curtain rod, comprising an attaching base and a prong projecting therefrom, said prong having its top and bottom edges formed with longitudinally extending arched flanges adapted to afford extended bearings for the edges of a curtain rod into which said prong has been axially penetrated, said



arched flanges being beveled back towards the prong at their ends.

1,923,025
PORTABLE LOCK
Lynn H. Morse, Natick, and Thomas F. Smith, Quincy, Mass., assignors to Ernest L. Chase, Dorchester, Mass., as trustee
Application June 13, 1931. Serial No. 544,162
8 Claims. (Cl. 70—124)



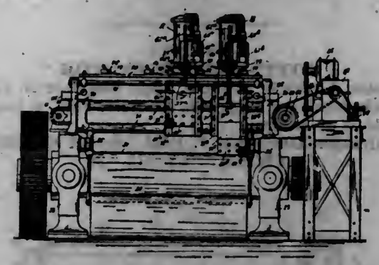
1. A portable lock for securing together two members by being entered through registering apertures therein comprising a hollow shank arranged to be passed through said apertures from one side thereof and having an enlarged head to overlie the margin of the nearer aperture, a bolt extending from said shank to be engaged behind the further margin of an aperture, a spring-pressed plunger in said shank normally projecting said bolt, said head having an opening for the insertion of a key and said plunger having means with which a key inserted through said opening may make tractile engagement therewith.

1,923,026
BUNG FIXTURE FOR CONTAINERS AND SEAL THEREFOR
Irvin H. Ricke, Auburn, Ind., assignor to Ricke Metal Products Corporation, a Corporation of Indiana
Application October 30, 1929. Serial No. 403,518
5 Claims. (Cl. 220—39)



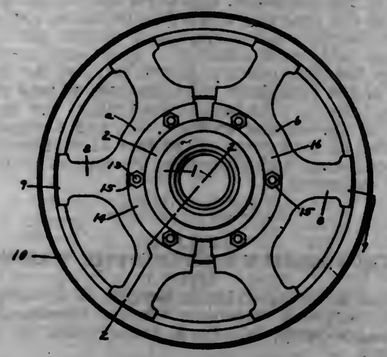
5. A container having a bung opening and a bung ring disposed concentrically with said opening, said ring being provided at one end thereof with an annular groove and internal flange contiguous therewith, and a seal consisting of a diaphragm provided with a peripheral wall engageable at its free end by said flange upon insertion of the seal into the ring, said wall being so formed as to become extended into said groove upon pressure being applied to the top of the seal by a bung inserted into said ring.

1,923,027
AUTOMATIC MILL MIXER
Horace D. Stevens, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio
Application December 17, 1929
Serial No. 414,662
16 Claims. (Cl. 18—2)



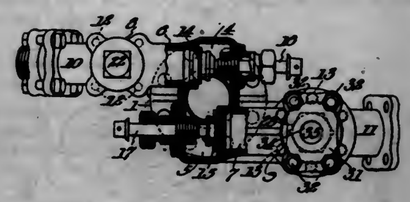
1. In plastic mixing apparatus, a pair of cooperating driven mill rolls, a pair of plow units, supporting means adapted to slidably support said plow units above one of said rolls for movement in parallel relation with the axis thereof, driving means adapted to move said plow units back and forth along said supporting means, each of said plow units including a plow and plow carrying means adapted to move the plow into cooperating relation with the surface of said roll, and controlling means operated by the plow units in their movement along their supporting means for controlling the position of said plow carrying means.

1,923,028
METAL WHEEL
George Walther, near Dayton, Ohio, assignor to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio
Application July 27, 1927. Serial No. 208,781
5 Claims. (Cl. 301—9)



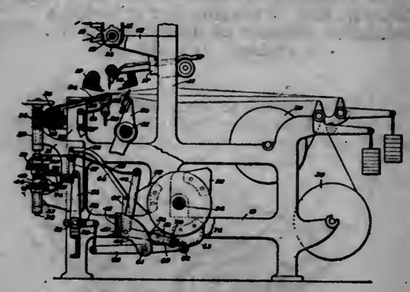
1. A metal wheel comprising a spider which is formed in two independent radial sections adapted to be wedged outwardly into engagement with a tire rim, and arcuate wedge members by means of which said radial sections are wedged outwardly into engagement with said rim one of said radial sections being removable, independent of the other section, to permit the demounting of the rim.

1,923,029
DOUBLE TOP BOILER CHECK AND STOP VALVE
Charles B. Allen, Wadsworth, Ohio, assignor to The Ohio Injector Company, Wadsworth, Ohio, a Corporation of Ohio
Application December 18, 1929
Serial No. 414,994
2 Claims. (Cl. 277—52)



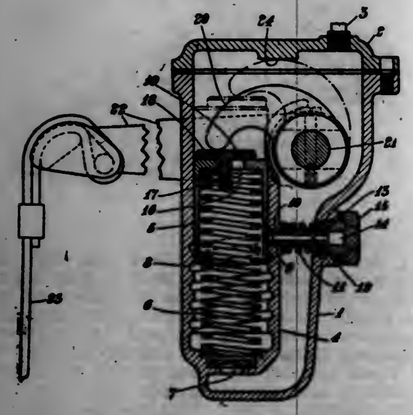
1. A double top boiler check and stop valve mechanism, comprising a body casting adapted to be connected with the top of a boiler and having parallel check valve chambers and stop valve chambers horizontally disposed, the stop valve chambers being arranged side-by-side and one of them opening into one of the check valve chambers and the other into the other check valve chamber, a check valve in each of the check valve chambers and a stop valve in each of the stop valve chambers, one of the check valves having a seat provided with a laterally extending flange adapted to form a joint between the body and a pipe connection leading therefrom, said seat also having a screwthreaded connection with the body.

1,923,030
MEANS FOR WEAVING TUFT PILE FABRICS
Frank Darienso, Amsterdam, N. Y., assignor to Bigelow-Sanford Carpet Co. Inc., Thompsonville, Conn., a Corporation of Massachusetts
Application April 4, 1932. Serial No. 602,914
11 Claims. (Cl. 139—7)



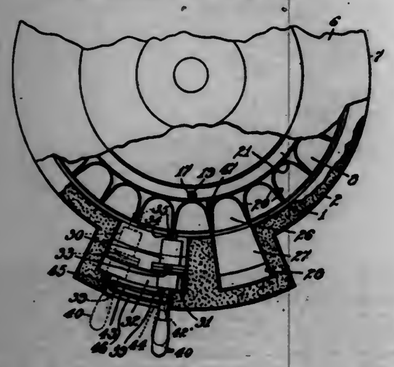
1. In a tuft pile fabric loom, the combination of means for looping pile forming tuft yarns about a weft shot in the shed, a breast plate by which the loop of the pile forming yarns is held, a take-up and let back mechanism acting automatically to take up the fabric as it is woven and to automatically let back the fabric to disengage the loops of the pile forming tuft from the breast plate on the beat up of the binding weft shot for the pile forming tuft.

1,923,031
HYDRAULIC SHOCK ABSORBER
Johan Gunnar Everstam and Edit Amalia Everstam, née Ericsson, Stockholm, Sweden, assignors to Aktiebolaget Svenska Stötdämparefabriken, Stockholm, Sweden, a Manufacturing Company of Sweden
Application June 12, 1930, Serial No. 460,759, and in Sweden June 13, 1929
2 Claims. (Cl. 267—8)



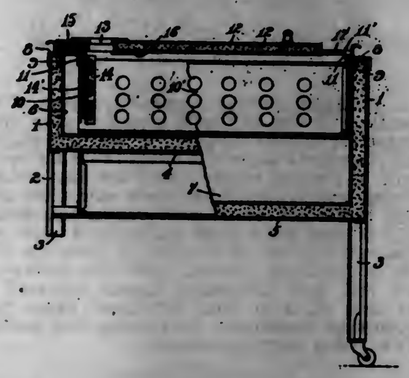
1. In a hydraulic shock absorber for motor vehicles and the like, the combination of a liquid containing cylinder, a piston reciprocable in said cylinder, said piston having an aperture in its end, a plate covering said aperture and slidable on the end of said piston, means on said plate forming with said piston a restricted relief port from said aperture, and means engaging said plate to actuate said piston to move it into said cylinder so as to compress the liquid in the same.

1,923,032
BOTTLE REFRIGERATOR
Chester A. Frick and Robert E. Baker, Muncie, Ind., assignors to Glascock Brothers Mfg. Co., Muncie, Ind., a Corporation of Indiana
Application October 26, 1928. Serial No. 315,132
4 Claims. (Cl. 312—36)



1. A dispensing container having a lateral escape passage, a support in said container on which articles to be dispensed may be positioned, the said support being inclined downwardly at said passage whereby articles thereon are tilted through the passage, a drum mounted in the container to turn about a vertical axis and having in its periphery a multiplicity of circumferentially spaced vertical corrugations, said corrugations being normally closed by the container case, and means for turning said drum to successively bring said corrugations into registration with said passage.

1,923,033
BOTTLE REFRIGERATOR
Chester A. Frick, Muncie, Ind., assignor to Glascock Brothers Mfg. Co., Muncie, Ind., a Corporation of Indiana
Application December 7, 1928. Serial No. 324,497
3 Claims. (Cl. 312—36)

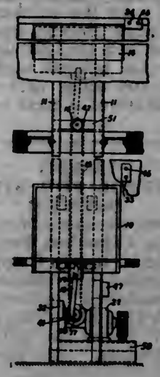


1. The combination with a bottle container adapted to receive the bottles in an upright side by side relation and open at its top substantially from end to end, of a sliding cover for closing said container, slidably supported at its two side edges on the top edges of the sides thereof and adapted when slid rearwardly to open the front end of the container, said cover having an opening at the rear end thereof to permit a bottle to pass therethrough, a stationary closure plate beneath said cover adapted to close said opening when the slide cover is moved to close the front end of the container, the diameters of said plate from front to rear being substantially the diameter of the opening in the cover, and a propeller carried by said cover at the rear of said opening for engaging and propelling the bottles through said container.

1,923,034
ELECTRICALLY DRIVEN DUMB WAITER, ETC.
Bjarne Henriksen, North Bergen, N. J., assignor to Sedgwick Machine Works, Incorporated, Poughkeepsie, N. Y., a Corporation of New York
Application December 22, 1932
Serial No. 648,372
13 Claims. (Cl. 187—8)

1. A dumb waiter construction comprising a vertically movable car, a chain for raising and lowering the car, guides for said chain, a motor for driving said chain, a rod connecting the car and the chain, a cut-out switch for the motor and cams carried by the chain for actuating said switch, said cams and said connecting rod being

arranged with respect to the switch so as to stop the motor while the weight of the car is on a



descending branch of the chain so that gravity will assist in starting the motor.

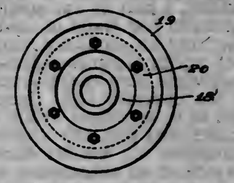
1,923,035
FISH ROD HANDLE
William F. Heerle and Ernest J. Pardon, Torrington, Conn., assignors to Union Hardware Company, Torrington, Conn., a Corporation of Connecticut
Application November 23, 1932
Serial No. 643,964
10 Claims. (Cl. 43—22)



1. A fish rod handle member formed of sheet metal having front and rear grip portions and an intermediate offset reel seat portion with downwardly extending side flanges, a holder for the rear end of a reel plate at the rear of said offset portion, and a sliding clamp for the forward end of a reel plate having a finger piece at least partially housed between said flanges.

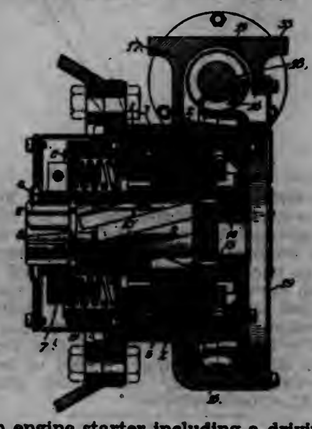
1,923,036
CONVEYER MECHANISM
Julius R. Knopf, Pittsburgh, Pa., assignor to George J. Hagan Company, Pittsburgh, Pa., a Corporation of Pennsylvania
Application February 1, 1928. Serial No. 251,013
2 Claims. (Cl. 263—8)

1. A roller for supporting material in a heating apparatus comprising a body portion and a sectional tire on the rim thereof said tire being



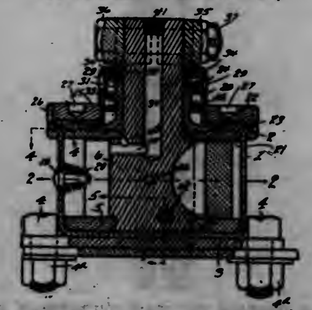
made up of a plurality of arcuate sections of refractory material.

1,923,037
ENGINE STARTER
Charles Marcus, New York, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York
Application July 6, 1925. Serial No. 41,859
29 Claims. (Cl. 123—185)



1. An engine starter including a driving member adapted to engage and crank a member of the engine to be started, a rotatable member for actuating such driving member, a friction clutch between said driving member and rotatable member and a manually operated shaft operatively connected with such rotatable member and constructed and arranged to be operated at either end.

1,923,038
HYDRAULIC SHOCK ABSORBER
Courtney N. Mitchell, Cleveland, Ohio
Application August 22, 1929. Serial No. 387,587
33 Claims. (Cl. 188—89)



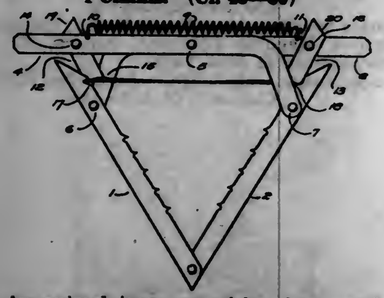
1. A hydraulic shock absorber comprising a casing, a shaft journaled in said casing, a piston

traversing the space between the walls of said casing and shaft, a pair of abutments traversing the space between the walls of said casing and shaft and defining an auxiliary supply reservoir and a pair of working compartments, said shaft having a transverse bore therein which is counterbored at the opposite ends thereof, a check valve adapted to be arranged within one or other of said counterbored portions whereby to adapt the shock absorber for use on either the right or left hand side of an automotive vehicle.

1,923,039
ANIMAL TRAP

Hans Peterson, Readstown, Wis.

Application June 27, 1932. Serial No. 619,411
4 Claims. (Cl. 43—80)



1. An animal trap comprising jaw members, means for pivotally connecting the jaw members, an arm pivotally connected to each jaw member, a spring connecting the arms, said arms being pivoted to each other, a trigger pivoted to each arm, each jaw member having a notch adapted to be engaged by said trigger to hold said trigger in a predetermined position, said triggers being adapted to be independently released from said jaws and said jaws being adapted to be moved towards each other by said spring when both triggers have been released.

1,923,040
WELL PUMP PLUNGER

John W. Pippin, Corpus Christi, Tex., assignor of one-half to H. R. Giles, Nueces County, Tex., and one-half to W. F. Hall and George Lowrey, Harris County, Tex.

Application June 5, 1931, Serial No. 542,450
Renewed November 25, 1932
2 Claims. (Cl. 309—31)

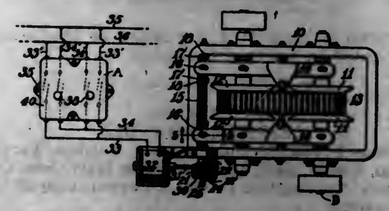


1. In a packing for well plungers, a plurality of superposed elements each comprising a metallic carrier ring comprising a sleeve portion and an annular flange portion formed therewith, said flange portion being substantially wedge shaped in cross section with the thickest portion adjacent the outer edge thereof, and a composition packing ring received on said sleeve portion and bearing at one side against said annular flange portion, and at the other side against the annular flange portion of a next adjacent packing element.

1,923,041
DISTANT CONTROL FOR SPEED VARYING DEVICES

Milton O. Reeves, deceased, Columbus, Ind., by Paul B. Reeves, Columbus, Ind., administrator, assignor to Reeves Pulley Company, Columbus, Ind., a Corporation of Indiana

Refiled for abandoned application Serial No. 699,590, March 15, 1924. This application January 17, 1927. Serial No. 161,699
5 Claims. (Cl. 64—8)

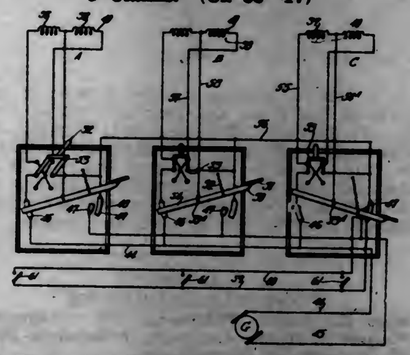


1. In a speed varying mechanism comprising two pairs of friction cones, a connecting belt, two controlling levers acting upon said pairs of cones to variably position the same relative to the belt, a threaded shaft, and a pair of nuts carried by said shaft and engaging said levers to variably position the same, a friction drive for rotating said threaded shaft, and stops for preventing the movement of the threaded shaft to drive said levers beyond working positions of the cones, said stops engaging said nuts to stop rotating movement of said shaft before frictional contact of said nuts with said stops is effected.

1,923,042
MOTION PICTURE CHANGE-OVER AND CUT-OFF DEVICE

Charles Thide, Brooklyn, N. Y.

Application March 30, 1927. Serial No. 179,673
5 Claims. (Cl. 88—17)



1. In combination, a battery of three or more motion picture projectors, light projectors cooperating therewith, light beam cut-off shutters disposed between the light projectors and the picture projectors, solenoids for opening and closing each of said shutters, dual coils in said solenoids, a three-way power circuit common to all of the projectors, a switch for diverting the current through some of the solenoids and a selective reversed polarity switch for each of said solenoids whereby the current may be directed to each of the coils of each of the solenoids for causing opening or closing of the desired shutter.

2. In combination, a battery of three or more motion picture projectors, a light projector for each of the motion picture projectors, a shutter between each of the light projectors and the motion picture projectors, a dual coil solenoid for opening and closing each shutter, a three wire power circuit common to all of said projectors, a three wire solenoid coil circuit for each projector, switches interposed in the solenoid coil circuit each of which functions to selectively place any two of the solenoid coils in circuit and switches for hooking up the power and solenoid coil circuits whereby operation of the said two solenoids may be accomplished in unison.

1,923,043
METHOD OF RESTRAINING DYE DIFFUSION AND RESULTING PRODUCT

Leonard T. Troland, Cambridge, Mass., assignor, by mesne assignments, to Technicolor, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application May 24, 1928
Serial No. 280,381
10 Claims. (Cl. 101—149)

1. A method for restraining the diffusion of colored imbibition images in gelatine surfaces and the like, which comprises treating the same with a solution containing a soluble fixing salt, drying the surface, washing, applying a second colored image thereto, complementary to the first, and treating the freshly colored surface with a solution containing a soluble fixing salt, and finally washing.

1,923,044
PROTECTIVE DEVICE FOR CHLORINATING APPARATUS

John C. Baker, Montclair, N. J., assignor to Wallace & Tiernan Products, Inc., Belleville, N. J., a Corporation of New Jersey

Application February 23, 1932. Serial No. 594,587
4 Claims. (Cl. 210—28)

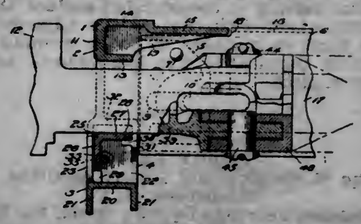


1. In a chlorine supply apparatus, apparatus for supplying chlorine gas, a water container into which chlorine from said device is normally admitted, and a chamber connected to the gas flow line between said supply apparatus and said container normally closed except for the passages by which chlorine gas is admitted to and discharged from said chamber, said chamber containing a substance capable of adsorbing chlorine to a greater extent than chlorine can be dissolved in water, so that, if when the flow of chlorine ceases moisture enters said chamber from said container, chlorine will be liberated from such substance to oppose the flow of water into said chamber.

1,923,045
DRAFT RIGGING

Donald S. Barrows, Rochester, N. Y., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland

Application July 25, 1927. Serial No. 208,284
8 Claims. (Cl. 213—60)

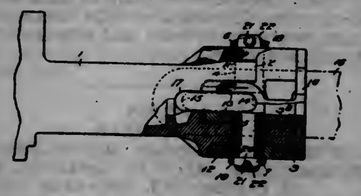


1. In a railway draft rigging, in combination with a coupler having an enlarged butt, a combined casting comprising portions serving, respectively, as a striking casting and sill tie member, said tie member being spaced sufficiently from the striking portion to permit the free insertion and removal of the butt of the coupler, said casting being formed with inwardly extending shelf portions disposed at a plurality of elevations intermediate the striking casting and sill tie member, and a removable carrier comprising horizontal and vertical portions and supported at its ends, with the horizontal portion resting on the high shelf portions and the vertical portions resting on the low shelf portions, and adapted to extend beneath the stem of the coupler for the support thereof.

1,923,046
DRAFT RIGGING

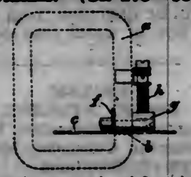
Donald S. Barrows, Rochester, N. Y., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland

Application July 31, 1928. Serial No. 296,462
3 Claims. (Cl. 213—69)



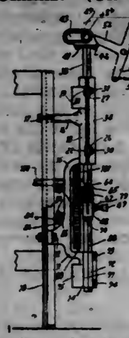
3. A coupler with an articulated shank comprising a stem portion and a block intercalated with respect to said stem portion, a draft key slot in said shank, a pivot member extending upwardly from the bottom of said shank approximately to said slot and another pivot member extending downwardly from the top of said shank approximately to said slot for pivotally connecting said stem and block, and means for holding said pivot members in place and preventing their adjacent end portions from encroaching on said slot.

1,923,047
PERMANENT MAGNET
Frederick Horace Batt, Hollinwood, England, assignor to Ferranti Inc., New York, N. Y.
Application October 21, 1931, Serial No. 570,223, and in Great Britain October 27, 1930
6 Claims. (Cl. 175—338)



1. A permanent magnet, at least one pole piece of which is furnished with an auxiliary pole piece member having a considerable surface area in in comparison with that of the adjacent pole piece face, so mounted as to be movable in a direction parallel to the longitudinal axis of the pole piece.

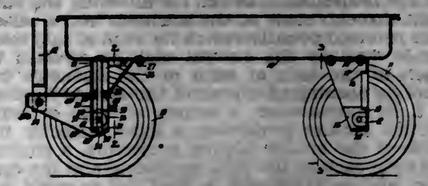
1,923,048
DOBBY DRIVE
John G. Bentley and Robert A. Gibbs, Jr., Greensboro, N. C.
Application February 18, 1931. Serial No. 516,585
9 Claims. (Cl. 139—71)



1. In a dobby loom having a dobby head and a rocker arm, means for rocking said rocker arm comprising an elliptical gear and an eccentric gear meshing therewith, said elliptical gear having a slot therein, a connecting rod having its upper end connected to the rocker arm and having a transversely disposed slot in its lower portion, means mounted in both of said slots for connecting the elliptical gear with the connecting rod, and means for driving said elliptical gear in timed relation to said loom.

1,923,049
TOY VEHICLE
Charles C. Blackmore, Dayton, Ohio
Application June 26, 1931. Serial No. 547,071
10 Claims. (Cl. 280—87.5)

1. In a toy vehicle, a body, a supporting member formed in one piece and comprising a vertical web having at its upper edge means for securing the same to the bottom of said body, having its lateral edges converging downwardly and provided with flanges and having at its lower edge an apertured flange secured at its ends to the adjacent ends of said lateral flanges, and a brace extending from the outer edge of said lower flange, an elongated member arranged in supporting relation to said supporting member and having upper and lower apertured parts spaced one from the other, a pivot pin extending from the bottom of said body and through the apertures in the



lower flange of said supporting member and in said parts of said elongated member, and wheels mounted on the respective ends of said elongated member.

1,923,050
SNAP FASTENER SLIDE SOCKET
Moses F. Carr, Lincoln, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts
Application July 1, 1932. Serial No. 620,359
5 Claims. (Cl. 24—77)



1. A slide fastener socket having a plate portion, a boss extending from said plate portion for engagement with a cooperating fastener stud, said boss being divided by a number of slits to permit expansion and contraction thereof, said plate portion having strap-receiving slots located at opposite sides of said boss and an abutment means carried by said plate portion and located between one strap-receiving slot and one portion of said boss for contact therewith to prevent overexpansion thereof when lateral stress is exerted upon said boss toward said abutment means.

1,923,051
GLOW LAMP
Theodore Willard Case, Auburn, N. Y., assignor to Case Research Laboratory, Inc., of Auburn, N. Y., a Corporation of New York
Original application July 27, 1929, Serial No. 381,666. Divided and this application February 17, 1932. Serial No. 593,513
4 Claims. (Cl. 176—122)



1. A glow lamp comprising a bulb, a plurality of electrodes within the bulb, at least one of which comprises a coating of nitrided alkaline earth material, and a gas within the bulb comprising a high percentage of helium and a comparatively low percentage of nitrogen.

1,923,052
PNEUMATIC CONVEYER RELAY OR TERMINAL
John M. Chalstrom, Elmhurst, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York
Application September 1, 1931. Serial No. 560,640
18 Claims. (Cl. 242—23)



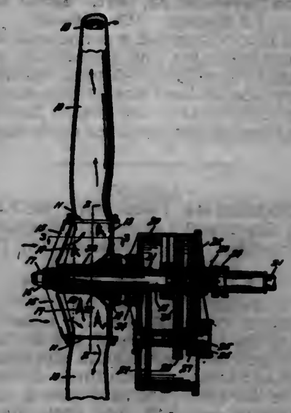
1. In a pneumatic carrier terminal having a carrier tube joined thereto, means for forming a valve at the end of the carrier tube through which carriers may be discharged, means for separating the carriers to be discharged from the remaining carriers, and means for supporting the remaining carriers during the discharge operation, all of said means being incorporated in one movable element.

1,923,053
PAPER BOX
Lloyd L. Dodge, St. Paul, Minn.
Application August 15, 1930. Serial No. 475,558
2 Claims. (Cl. 206—58)



2. A container for roll paper, comprising a cardboard box of a size to receive a roll of paper therein, a cover carried by the rear wall of said box, said cover having a downwardly folded front wall adapted to overlie the upper edge of a front wall of said box, downwardly bent side portions upon said cover, adapted to overlie the upper portions of the ends of said box, said side portions having forwardly projecting tabs folded inwardly to overlap said front cover fold, and a comparatively rigid strip along the lower edge of said front cover fold and said side tabs, said strip being secured to said front fold and said tabs to form a combined securing means and to provide a tearing edge for paper withdrawn from between said cover and said box.

1,923,054
PROPELLER
Edgar R. Holmes and Thomas M. Shelton, Denver, Colo., assignors to The American Gyro Co., Denver, Colo., a Corporation of Colorado
Application December 9, 1932. Serial No. 646,510
9 Claims. (Cl. 170—172)



1. A propeller comprising: a hollow hub portion; a series of propeller blades extending radially outward from said hub portion; and means for drawing air into said hollow hub portion through the forward face thereof and discharging said air rearwardly thereof, said means comprising an independently rotatable impeller within said hollow hub portion and in the plane of said propellers and means for rotating said impeller.

1,923,055
ALDEHYDEAMINE CINCHONA BARK ALKALOID INHIBITORS
Ralph E. Lawrence, Wickliffe, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware
No Drawing. Application December 19, 1931 Serial No. 582,187
4 Claims. (Cl. 148—8)

1. A cleaning and pickling bath for metals comprising a dilute, non-oxidizing acid containing a small amount of the condensation product obtained by heating together an acetaldehydeaniline and quinoidine.

1,923,056
CONDENSATION PRODUCT OF CINCHONA BARK ALKALOIDS WITH THIURAM SULPHIDES
Ralph E. Lawrence, Wickliffe, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware
No Drawing. Original application December 19, 1931, Serial No. 582,186. Divided and this application November 22, 1932. Serial No. 643,952
4 Claims. (Cl. 260—2)

1. As a new compound a condensation product of a cinchona bark alkaloid with a thiuram sulphide which is an amorphous yellow to brown substance, insoluble in aqueous caustic alkali, al-

most completely soluble in dilute acid and has the property of inhibiting the action of acids upon metals.

1,923,057

ALDEHYDEAMINE CINCHONA BARK ALKALOID CONDENSATION PRODUCT

Ralph E. Lawrence, Wickliffe, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware

No Drawing. Original application December 19, 1931, Serial No. 582,187. Divided and this application November 22, 1932. Serial No. 643,953

2 Claims. (Cl. 260—2)

1. As a new compound a condensation product of an aldehydeamine and a cinchona bark alkaloid which is a yellowish-brown, resinous material, easily and at least nearly completely soluble in dilute sulfuric acid and which has the property of inhibiting the action of acids upon metals.

1,923,058

METHOD OF TREATING METALS

Harry Raymond Lewstuter, Monessen, Pa.

No Drawing. Application August 19, 1930 Serial No. 476,453

3 Claims. (Cl. 205—21)

1. In a method of drawing tubes, the steps which consist in applying to the inner and outer surfaces of the tube, a varnish low in carbon having finely powdered aluminum suspended therein, fixing and bonding such finely divided aluminum on to the surface of said tube in the form of a thin continuous film, and then drawing said tube through successive dies to modify its diameter or thickness without intermediate heating operations.

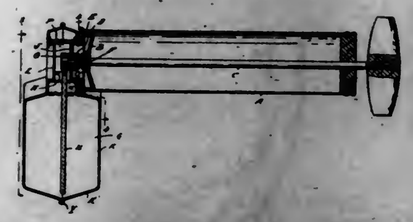
1,923,059

SPRAYER

Gordon C. Phare, Traverse City, Mich., assignor to "Acmeline" Manufacturing Company, Traverse City, Mich., a Corporation of Michigan

Application December 17, 1930 Serial No. 502,913

5 Claims. (Cl. 239—88)



2. In a sprayer, a supply tank comprising a plurality of dished sheet metal members seamed together and having opposite upper flat wall portions and an upper chamber within that portion of the tank between said flat walls, said tank also having a larger lower chamber, an apertured partition separating said members, a pump member having a terminal apertured head seated against and secured to one of said flat tank walls, the opposite flat tank wall having a mixture discharge aperture therein, the abutting head and flat walls having a continuous air discharge aperture therethrough and in alignment with the mixture discharge aperture, and a liquid delivery conduit opening at one end in and near the bottom of the tank and at the other adjacent the air discharge aperture.

Patents Nos. 1,923,060 to 1,924,086

THE OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 433—No. 4 TUESDAY, AUGUST 22, 1933 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $16.00 per annum, including annual index, $18.25; single numbers, 35 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
ISSUE OF AUGUST 22, 1933	791
ADVERSE DECISIONS IN INTERFERENCE	791
INTERFERENCE NOTICE	791
DRAWINGS	791
IMPORTANT INFORMATION	791
APPLICATIONS UNDER EXAMINATION	792
DECISIONS OF THE U. S. COURTS—	
In re Liebergeld and Singer	793
In re Murray	794
In re Kaser	797
PATENT SUITS	799
DISCLAIMERS	800
TRADE-MARKS PUBLISHED (175 APPLICATIONS)	801
TRADE-MARK REGISTRATIONS GRANTED	824
TRADE-MARK REGISTRATIONS RENEWED	837
LABELS	837
PRINTS	838
REISSUES	839
DESIGNS	841
PATENTS GRANTED	850

August 22, 1933

Trade-Marks	328—No.	305,522 to No.	305,849, inclusive
T. M. Renewals	14		
Labels	41—No.	42,556 to No.	42,596, inclusive.
Prints	6—No.	14,303 to No.	14,308, inclusive.
Reissues	8—No.	18,918 to No.	18,925, inclusive.
Designs	42—No.	90,520 to No.	90,561, inclusive.
Patents	1027—No.	1,923,060 to No.	1,924,086, inclusive.
Total	1,466		

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,773,025, G. C. Chase, Carriage shift control for calculating machines, decided July 13, 1933, claim 8.

Pat. 1,824,127, F. L. Dodgson, Interlocking system for railroads, decided July 19, 1933, claim 15.

Pat. 1,888,389, Emanuel Goldberg, Statistical machine, decided July 17, 1933, claims 6 and 7.

Pat. 1,877,547, R. W. Armstrong, Arrangement for openings in scanning disk multiple cardioid, decided July 24, 1933, claims 1 and 2.

Pat. 1,885,214, M. L. Almquist and A. C. Thompson, Signaling system, decided July 22, 1933, claims 1, 2, 3, 4, 5, and 6.

Interference Notice

U. S. PATENT OFFICE, *Washington, Aug. 4, 1933.*

Beaumont Fruit Company, Inc., its assigns or legal representatives, take notice:

An interference having been declared by this office between the application of the Mineral Water Corporation, 1615 South Los Angeles St., Los Angeles, Calif., for registration of a trade-mark and trade-mark registered August 13, 1929, No. 259,871, to the Beaumont Fruit Company, Inc., Beaumont, Calif., and a notice of such declaration sent by registered mail to said Beaumont Fruit Company, Inc., at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Beaumont Fruit Company, Inc., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Drawings

Attention is called to paragraphs *g* and *i* of Rule 52 of the Rules of Practice of the Patent Office, and inventors and attorneys are directed to omit from the space outside of the marginal line of the drawings any marks of identification, inasmuch as the space referred to is reserved for the use of the Patent Office. Such identifying marks should be placed upon the back of the drawings.

Important Information

In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

Application as originally filed. (Petition, specification, oath, and drawings as received.) Application as amended. (Petition, specification, oath, and drawings with amendments entered.)

Application as allowed. (Petition, specification, oath, and drawings as passed by the examiner for issue.)

Original application. (Facsimile petition, specification, oath, and drawings at present time.)

Specification as originally filed. (As received in Office.)

Specification as amended. (With amendments entered.)

Specification as allowed. (As passed by the Examiner for issue.)

Original specification. (Facsimile at present time.)

File-wrapper. (File-wrapper only.)

File-wrapper and contents. (File-wrapper, contents of record, including photoprints of any tracings or of prints within file-wrapper. In patented cases, printed copy of the specification and drawings of the patent is furnished.)

File-wrapper, contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)

Assignment. (Give the liber and page of the record as well as the name of the inventor.)

Printed publications in possession of the Office. (Give title and date of publication, also page and exact portion to be copied.)

Orders for copies of any other records not mentioned above must state specifically the exact paper to be copied.

Condition of Applications Under Examination at Close of Business August 5, 1933

(Total number of applications awaiting action, excluding Trade-Mark Division, 49,375; Trade-Mark Division, 787. Oldest new case, Mar. 30, 1933; oldest amended, Mar. 30, 1933.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Apr. 6	Apt. 8	626
6708	2. HERRMANN, D. (Act.), Fishing and Trapping; Dairy; Animal Husbandry; Presses, Tobacco; Velocipedes; Butchering.	Apr. 6	Apr. 10	871
4602	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	May 8	May 12	580
7083	4. DONNELLY, A. E. (Act.), Conveyers; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds.	Apr. 10	Apr. 6	567
3626	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Etc.	May 5	May 5	499
4609C	6. LEWERS, A. M., Carbon Chemistry	Apr. 24	Apr. 20	1074
5725	7. JARBOE, C. G., Optics; Photography	Apr. 18	Apr. 19	1052
7514	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	June 5	June 7	490
4634	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	May. 8	May 10	568
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	May 8	May 8	480
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Apr. 6	Apr. 7	604
7701	12. HENRY, C. O., Machine Elements; Cylinders and Pistons; Mechanical Starters; Stop Mechanisms	Apr. 24	Apr. 24	618
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	May 2	May 2	621
5097	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	May 12	May 19	505
4697	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Apr. 21	Apr. 21	1208
5612	16. SPENCER, C. J., Telegraphy; Telephony	May 5	May 5	591
5701	17. ARMSTRONG H. (Act.), Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Apr. 6	Apr. 6	993
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	June 8	June 14	317
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Apr. 7	Apr. 11	1066
6613	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	June 13	June 19	242
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Apr. 5	Apr. 5	861
5724	22. RINGLE, D. (Act.), Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion; Boating, Implements.	Apr. 12	Apr. 12	1000
7802	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Apr. 6	Apr. 6	576
5053	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	May 11	May 17	520
5709	25. BLAKELY, C. F., Agitating; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Apr. 8	Apr. 11	1073
5803	26. ADAMS, W. M., Electricity, Generation; Motive Power	May 11	May 11	497
5708	27. CLARK, W. N. (Act.), Brushing, Scrubbing, and Cleaning; Washing Apparatus	May 8	May 8	481
4628	28. BENSON, A. R., Internal-Combustion Engines	Apr. 5	Apr. 5	844
5082	29. SHKLARIN, J. B. (Act.), Woodworking; Tools; Compound Tools; Furniture; Metal Working.	May 15	May 20	305
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	May 5	May 5	666
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Apr. 7	Apr. 7	1237
4096	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation.	May 15	May 13	471
6096	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roofs; Wooden Buildings.	Apr. 10	Apr. 12	1170
6625	34. SAPERSTEIN, S. (Act.), Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders; Fluid Pressure Brakes.	Apr. 5	Apr. 5	1017
3600	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Filling and Closing Portable Receptacles.	Apr. 12	Apr. 13	784
7024	36. McFAYDEN, A. D. (Act.), Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Apr. 1	Apr. 2	1306
5599	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	May 5	May 5	551
7510	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells; Hydraulic Cement and Lime; Roads and Pavements.	Mar. 30	Mar. 30	775
4674	39. WHITNEY, F. J. (Act.), Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution.	Apr. 19	Apr. 20	812
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Apr. 20	Apr. 21	1367
6082	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices; Typewriting Machines.	Apr. 8	Apr. 12	886
5582	42. CUTTING, H. O., Electric Signaling	Apr. 5	Apr. 5	936
4098B	43. KLINGE, E. F., Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Apr. 17	Apr. 17	1011
4057B	44. SHAFFER, C. H., Refrigeration; Dispensing Beverages	Apr. 7	Apr. 6	814
7097	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	June 12	June 12	329
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems	Apr. 27	May 2	557
7600	47. BARKER, H., Clutches; Brakes; Motors	Apr. 20	Apr. 24	994
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Apr. 11	Apr. 15	676
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers	Apr. 5	Apr. 5	832
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating Processes; Carbohydrates and Condensation Products.	Apr. 5	Apr. 5	974
5628	51. BACKUS, C. D., Radiant Energy	May 8	May 8	703
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Mains and Pipes.	May 15	June 2	516
6607	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	May 25	May 29	481
5874	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Apr. 8	Apr. 8	847
6987	55. BOWEN, S. T. {Bread, Pastry, and Confection Making; Cutlery	May 5	May 5	343
	{Designs	July 7	July 15	226
4725	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Apr. 5	Apr. 8	851
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	May 12	May 13	408
5605	58. DOWELL, E. F., Abrading	May 22	May 23	334
4709	59. RICHARD, V. I., Chemistry; Fertilizers	May 2	May 2	715
5606	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Apr. 6	Apr. 6	1016
6724	61. PARKS, G. E., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus.	Apr. 10	Apr. 10	505
7525	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles; Cloth, Leather, and Rubber Receptacles.	Apr. 22	Apr. 20	1342
4605	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Apr. 8	Apr. 8	1003
4705	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel; Alcohol.	Apr. 20	Apr. 20	1006
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Apr. 8	Apr. 8	1027
2000B	Trade-Marks, Labels, and Prints: F. A. RICHMOND.. {Trade-Marks	July 6	July 21	745
	{Labels and Prints	July 27	July 22	42

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE LIEBERGELD AND SINGER

No. 6,110. Decided April 24, 1933

PATENTABILITY—METHOD OF PRODUCING SEAMLESS TUBES.

Claims for a method of producing seamless tubes *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Brown & Critchlow, Mr. Paul N. Critchlow, Mr. Jo. Bally Brown, and *Mr. Jesse R. Langley* for Liebergeld and Singer.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GARRETT, *J.:*

There is here before us, upon appeal from the decision of the Board of Appeals of the United States Patent Office, affirming the decision of the Examiner, one claim of an application for patent on alleged—

improvements in process for the production of seamless tubes according to the hot extrusion process by means of mechanically driven presses.

The original application, Serial 80,338, was filed in the United States Patent Office on January 9, 1926. It is stated in the brief for appellants that:

The application as originally filed * * * placed emphasis on the performance of the extruding operation by means of a *mechanical* press (as distinguished from the *hydraulic* presses which had theretofore been used in hot extrusion) and on the fact that the press rams of mechanical presses operated at *higher speeds* than the press rams of hydraulic presses * * *. (Italics quoted.)

The application was amended, first, on March 4, 1927, and the amended specification recited that:

The *most important* feature as regards mechanical presses resides, however, therein that their pressing stamps can be moved with a *much higher speed* than those used in connection with hydraulic presses for manufacturing brass tubes by the extruding method. (Italics ours.)

A second amendment to the application was made October 29, 1930, in which it was stated, among other things:

We have discovered that the obstacle to extruding tubes from metals such as iron is overcome by increasing the speed of extruding the billet to that which is given by known mechanical presses as distinguished from a hydraulic press, the plunger speed of a mechanical press (operated by a crank, eccentric or the like) being in excess of an average of *three inches per second* * * *. (Italics ours.)

By a further amendment of December 9, 1930, appellants introduced into their application the claim (No. 73) in issue here, which reads as follows:

73. The method of producing a seamless tube from a heated billet of ferrous or ferrous base metal, comprising applying endwise pressure to the billet while in a container and thereby extruding the metal of the billet in seamless tube form from the container at an average speed in excess of three inches of billet length per second, the tube emerging from the container through a die in the direction of the application of pressure to the billet.

The claim seems clear enough to explain itself without any particular analysis of it. It will be noted that it is limited to—

a heated billet of ferrous or ferrous base metal

and calls for extrusion

at an average speed in excess of three inches of billet length per second.

The last quoted clause is the one upon which appellants principally rely for allowance of the claim.

Another claim (No. 74) referring to "semi-hard and hard metals," and not containing any statement as to the rate of speed of extrusion, stands allowed. The record does not disclose the reasons for the allowance of this claim and we are not here concerned with it.

Claim 73, supra, was rejected by both tribunals of the Patent Office upon two grounds, viz:

First, that the disclosures of the application as originally filed made no reference to a speed "in excess of three inches of billet length per second," nor, indeed, to any specific rate of speed. It was, therefore, held that the amendment presented new matter not justified by the disclosure of the application as first filed.

Second, that the claim is not patentable over the prior art as shown in the following references: Remmen, 927,076, July 6, 1909; Astfalck, 1,049,641, January 7, 1913; Towne, 1,468,092, September 18, 1923; and Oehmig, jr., et al., 1,664,990, April 3, 1928.

The first ground of rejection presents a question of law. It is an interesting one upon which there is much authority to be found both in standard text books on patent law and in well considered decisions of the Patent Office tribunals and of various courts.

In our view of this case, however, it is not essential that we here make an adjudication of that issue, although it was quite in order for the tribunals of the Patent Office to pass upon it, since it is proper in all cases for them to recite all grounds of rejection, to the end that, in the event of an appeal for court review, all questions may be here brought under scrutiny.

We find ourselves in agreement with the rejection of the claim upon the prior art. In reaching this conclusion we have given no particular weight to the references Towne and Oehmig, both of which seem to relate, as is pointed out in the brief for appellants, to the extrusion of soft, cold metals. The Board of Appeals listed those but took no special note of them, nor do they specifically refer to Astfalck's patent (other than to list it), cited by the Examiner, for "hydraulic press for making tubes out of an ingot." They do say, generally, that all the references are deemed pertinent, but the one principally relied upon by them is Remmen.

This patent relates to—

apparatus for making metal articles by pressure through dies,

and, in the specification, it is said,

* * * by forcing *heated* steel or iron billets, blooms or ingots through a die. (Italics ours.)

At another point in the specification it is said:

While the apparatus has been described more particularly for the manufacture of wire, rods, bars, rails, billets, blooms, etc., it can be used for manufacturing articles of various kinds, such, for instance, as seamless tubes, in which case it is merely necessary to arrange in line with the opening in the die a mandrel or core against which the hot metal is formed when it is discharged.

Speaking of Remmen, the Board says:

"A hydraulic press is employed."

The Board then states that such a press—

can obviously be operated at a speed of 3 inches per second or over if desired;

that there is nothing in the patent to prevent such operation; that there is no reason why the metal cannot be extruded at the rate desired if a fluid under a sufficiently high pressure be employed; that it would seem apparent that the press should be operated at a sufficient speed to overcome any trouble caused by the metal cooling on account of being extruded too slowly, and that it is believed obvious to substitute a mechanical press if it operates at a higher speed.

The brief for appellant states:

The press employed by Remmen is the ordinary *hydraulic* press which has always been used in hot extrusion work. (Italics quoted.)

It is then argued that slow speed characterizes the use of hydraulic presses; that this is well known to those skilled in the art, the state of which must be taken into account in considering the questions of invention, and that the Board's statements above quoted, or paraphrased, are "*assumptions* without evidence to support them" (italics quoted), and are contrary to affidavit and publication evidence filed in the record.

Upon the question of Remmen employing a "hydraulic" press, it seems proper to say that, while this may be true as a matter of practice, we do not interpret the teaching of his patent to be limited to hydraulic presses, even if that be regarded as important.

The specification, among other things, says:

Generally stated, the invention comprises a suitable cylinder in which the heated metal is placed * * * together with *power mechanism*, such as a hydraulic cylinder, for forcing the metal out of the cylinder and through the die * * *. (Italics ours.)

The phrase, "such as a hydraulic cylinder," as used, apparently illustrates, or names, one form of power mechanism, but does not limit the application to that form, whatever the actual practice in the art may have been.

Each of Remmen's claims has the introductory phrase, in the "apparatus of the character specified," and, in enumerating the features of the combination, the majority of them make no mention of hydraulic means as constituting the power mechanism required.

It might also be pointed out that there is nothing in appellant's claim 73 which limits the performance of their method to a "mechanical" press. In so far as the claim is concerned, the "endwise pressure" may be applied to the billet by any means, hydraulic, mechanical, or other—if there be any other.

The affidavits and publications made part of the record have been quite carefully read and studied, and due note has been taken of the argument relative to appellants being the first to produce seamless tubes of certain kinds of iron and steel by the hot extrusion process. Whatever the truth may be as to this, the fact remains that at least one prior patent taught the art of producing metal tubes in that way, and disclosed an apparatus in which the *method* necessarily followed seems clearly to anticipate the *method* of appellants here involved. True, that reference does not teach any specific rate of pressure speed, such as appears in the claim at issue, but we are unable to agree with the contention of appellants that the finding of the Board of Appeals, already alluded to and stated, are as appellants contend, mere "assumptions." They seem to us to be logical and reasonable deductions as to operations in the art which appellants are practicing and as such they support the holdings of nonpatentability.

The decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE MURRAY

No. 3,066. Decided May 1, 1933

1. REISSUES—NEW MATTER.

If an invention is not disclosed in the original application for patent, no reissue may be had, incorporating such invention. In such case, the rejection will rest not on estoppel, but on a failure of any disclosure upon which reissue claims may be based.

2. SAME—ESTOPPEL BY CANCELLATION OF ORIGINAL CLAIMS.

Where the invention in question has been disclosed in the original or amended application, and claims incorporating, either broadly or specifically, such invention, have been withdrawn or cancelled, before patent, then the applicant for reissue is estopped from further claiming such invention by way of reissue.

3. SAME—SAME.

Record reviewed and *Held* that the applicant for reissue is not estopped to make a certain claim since certain limitations therein had not been included either specifically or broadly in claims cancelled during the prosecution of the original application.

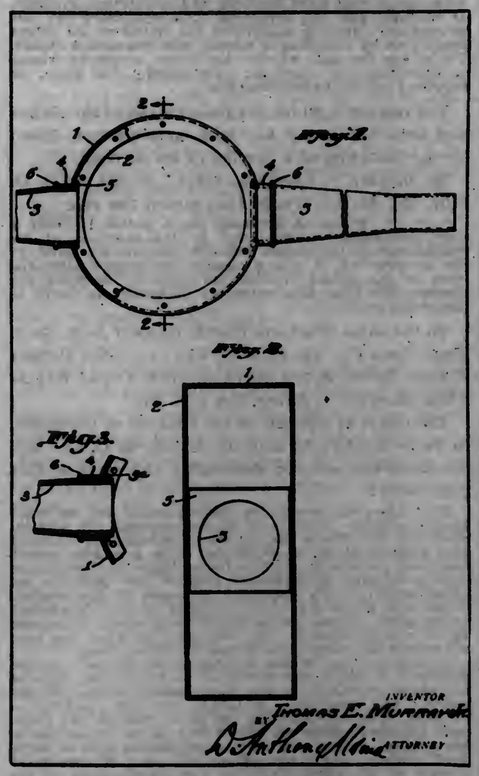
APPEAL from Patent Office. Modified.

Messrs. Milans & Milans and *Messrs. Usina & Rauber* for Murray.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GRAHAM, *P. J.*:

On January 12, 1926, a patent, No. 1,569,332, on improvements in the manufacture of housings, was granted to appellant by the United States Patent Office. The housings in question were such as are commonly used for the gearing and rear axles of automobiles, with tubular extensions on opposite sides to house the wheel driving shafts. Certain drawings delineating appellant's invention, known as Figures 1, 2, and 3, were a part of the original application and patent, and were the only drawings attached thereto. They are as follows:



In the proceedings in the Patent Office, preliminary to the issuance of appellant's original patent, certain claims were presented by way of amendment, which were cancelled by the applicant before the issuance of patent. These cancelled claims are as follows:

1. A rear axle housing for automobiles comprising an annular wall with inward flanges at its edges and with diametrically opposite openings, the portions of the wall surrounding said openings being flattened, and tubular extensions passing through said openings and having flanges on their inner end portions bearing on the inner faces of the flattened portions of the wall and having flanges formed by upsetting the intermediate portions of said extensions bearing against the outer faces of said flattened portions.

2. A rear axle housing for automobiles comprising an annular wall with inward flanges at its edges and with diametrically opposite openings, and tubular extensions passing through said openings and having on their inner end portions flanges bearing on the inner face of the wall and shaped to engage the wall flanges to prevent rotation of the extensions, said extensions having also flanges bearing on the outer face of the wall and formed by upsetting the intermediate portions of said extensions.

The present application is for a reissue, and was filed January 5, 1928. In connection with the application for reissue, claims known as 1, 3, and 4 were filed, and were rejected by both tribunals in the Patent Office. These claims are as follows:

1. A housing for automobile rear axle comprising a central annular portion with inward flanges at its edges and with diametrically opposite openings and tubular extensions having their inner ends of substantially the same size as said openings and united to the central portion at said openings, and said extensions terminating substantially at said openings.

3. A housing for automobile rear axles comprising a central annular portion with inward flanges at its edges and with diametrically opposite openings surrounded by outward flanges, and tubes having inner end portions abutting against and fastened to said outward flanges.

4. A housing for automobile rear axles comprising a central annular portion with inward flanges at its edges and with diametrically opposite openings surrounded by outward flanges, and tubes having inner end portions abutting against and fastened to said outward flanges and extending inward through said flanges and terminating substantially in register with the central annular portion.

The Examiner, while citing certain references, rejected these claims "on the ground of estoppel which flowed from a cancellation of somewhat narrower claims in an original application."

The Board of Appeals made the following statement:

On comparison, it is found that claim 1 on appeal omits the flattened portion of the annular member adjacent the points where the tubular extensions are attached which was a limitation in claim 1 of those cancelled. This appealed claim also omits the upset element of tubular extension 3 constituting flange 6 from the cancelled claim 2, and it omits the inner flanges 5 and 5a which were included in each of the cancelled claims.

Claim 3 omits the flattened portion and the inner flanges 5 and 5a mentioned in connection with claim 1.

Claim 4, like claim 1, omits the flattened portion and the flanges 5 and 5a. The last clause of claims 1 and 4 requires that the extensions of the tubular members where attached to the annular member terminate substantially in registry with the central annular portion or substantially at said openings. This clause is understood to require that the flange 5 or 5a be omitted from the inner ends of the tubular members. This is very clearly a broadening of the claim and it may be noted further that it is misleading in that applicant does not show or describe such an arrangement. This modification of claims 1 and 4 is considered to be a broadening of scope and unwarranted. The rejection on the ground of estoppel applies for this reason.

It thus appears that the three claims have been materially broadened and it is our opinion that they are properly rejected upon the ground of estoppel in accordance with the rule set forth in *Ex parte White*, 1928 C. D., page 6. The rule stated in that decision makes clear the rule stated in more general terms in *Denton* v. *Commissioner of Patents*, 1898 C. D. 483.

This decision, as we understand it, is, in effect, that claims 1 and 4 should be rejected because based upon an insufficient disclosure. The further observation is made by both the Examiner and the Board, that there has been a broadening of the scope of all three claims, and that the rejection on the ground of estoppel applies for that reason, on the claimed authority of *Ex parte White*, 1928 C. D., 6.

The drawings appearing in the original application and patent, and hereinbefore referred to as Figures 1, 2, and 3, are identical with those used in this application for reissue.

Claims 1 and 4 omit the flattened portion of the housing surrounding the opposite openings and the flanges 5 and 5a. The appellant argues that the original disclosure of the drawings showed tubes "terminating substantially at said openings." Such a view, however, loses sight of the character of these flanges. Figure 2 shows that they are square, extend entirely across the breadth of the housing, and operate, as stated by the appellant in his application for reissue:

Preferably the flange 5 on the inner end of the tube and the corresponding inner face of the wall of the housing are so shaped as to prevent rotation of the tube on its axis relatively to the housing. For example, as shown in Fig. 2, the flange may have its side edges bearing against the flanges 2 of the housing for this purpose.

It is not essential that the flange 5 be on the very end of the extension. It may be a flange similar to the flange 6, formed on the tube at a point slightly back of the end of the latter so that the tube itself will project

slightly into the housing, to provide a longer axle bearing or for some other purpose.

It will thus be seen that these flattened surfaces and flanges are not immaterial matters, but are features of substance. In their omission, the appellant is making claims for an invention not originally disclosed by him, and, hence, is not entitled to the allowance of claims 1 and 4.

While claim 3 also omits, generally, mention of the flattening and interior flanges, it does add the features of outward flanges and tubes abutting thereupon, features which were disclosed by the original application and which were not claimed therein. No issue being raised as to there having been inadvertence, accident, or mistake, this claim comes fairly within the scope of the reissue statute, section 4916, Revised Statutes, and should be allowed.

In view of the conclusions of the Patent Office tribunals as to the application of the doctrine of estoppel, it is thought advisable to consider this subject briefly.

[1] If a certain invention is not disclosed in the original patent or application therefor, certainly no reissue may be had, incorporating such invention. In such case, the rejection will rest not on estoppel, but on a failure of any disclosure upon which reissue claims may be based.

[2] If, however, the invention in question has been disclosed in the original or amended application, and claims incorporating, either broadly or specifically, such invention, have been withdrawn or cancelled, before patent, then the applicant for reissue is estopped from further claiming such invention by way of reissue. The purpose of this rule is well expressed by Mr. Justice Bradley, in *Leggett v. Avery*, 101 U. S. 256, 259, 17 O. G. 445:

> • • • If, in any case, where an applicant for Letters-Patent, in order to obtain the issue thereof, disclaims a particular invention, or acquiesces in the rejection of a claim thereto, a reissue containing such claim is valid (which we greatly doubt), it certainly cannot be sustained in this case. The allowance of claims once formally abandoned by the applicant, in order to get his Letters-Patent through, is the occasion of immense frauds against the public. It not unfrequently happens that, after an application has been carefully examined and compared with previous inventions, and after the claims which such an examination renders admissible have been settled with the acquiescence of the applicant, he, or his assignee, when the investigation is forgotten and perhaps new officers have been appointed, comes back to the Patent Office, and, under the pretense of inadvertence and mistake in the first specification, gets inserted into reissue letters all that had been previously rejected. In this manner, without an appeal, he gets the first decision of the office reversed, steals a march on the public, and on those who before opposed his pretentions (if, indeed, the latter have not been silenced by purchase), and procures a valuable monopoly to which he has not the slightest title. We have more than once expressed our disapprobation of this practice. As before remarked, we consider it extremely doubtful whether reissued letters can be sustained in any case where they contain claims that have once been formally disclaimed by the patentee, or rejected with his acquiescence, and he has consented to such rejection in order to obtain his Letters-Patent. Under such circumstances, the rejection of the claim can in no just sense be regarded as a matter of inadvertence or mistake. Even though it was such, the applicant should seem to be estopped from setting it up on an application for a reissue.

The Board of Appeals states, in the case at bar:

> It thus appears that the three claims have been materially broadened and it is our opinion that they are properly rejected upon the ground of estoppel in accordance with the rule set forth in *Ex parte White*, 1928 C. D., page 6.

The rule in *Ex parte White*, supra, is thus expressed:

> Appellant states that the appealed claims are broad in scope and appear to dominate his invention. He also states that they are very similar to claims 1 and 2 of his original application. The deliberate withdrawal of a claim in order to secure a patent is conclusive of the presumption that there has been no inadvertence, accident, or mistake, and the invention thus abandoned can not be regained either by construing the claims of the patent broadly or by obtaining a reissue with broadened claims. The rule is the same whether the claims sought by reissue or otherwise are identical, substantially the same, or broader than the abandoned claims.

The respect in which the Board believed the claims had been broadened has been hereinbefore shown by the quotation of a portion of its decision.

In *Shepard v. Carrigan*, 116 U. S. 593, 34 O. G. 1157, Mr. Justice Woods thus stated the rule:

> • • • Where an applicant for a patent to cover a new combination is compelled by the rejection of his application by the Patent Office to narrow his claim by the introduction of a new element, he cannot after the issue of the patent broaden his claim by dropping the element which he was compelled to include in order to secure his patent.

To the same effect are *Corbin Cabinet Lock Co. v. Eagle Lock Co.*, 150 U. S. 38, 65 O. G. 1066; *Dobson v. Lees*, 137 U. S. 258, 53 O. G. 1740; *Grand Rapids Show Case Co. v. Baker*, 216 Fed. 341.

The Court of Appeals of the District of Columbia, in *In re Denton*, 12 App. D. C. 504, 83 O. G. 1347, discussed this subject thoroughly and came to this conclusion:

> That the claim sought in the reissue is not as broad as the original claim, is of no consequence. It was included in it. When the applicant amended and limited that original claim, if he limited it to a greater extent than was necessary, such extreme limitation may have been a mistake of judgment; but it was certainly an abandonment of all that was contained in the original claim and which was not contained in the subsequent amendment. There can be no middle ground. There can be no retrogression to take back part of what has been abandoned any more than to take back the whole.
>
> It may be that it was a mistake on the part of the applicant to limit the invention to the extent only of the claim contained in the specification annexed to the patent; but with this, of course, we have nothing to do here. The only question for us is, whether the claim now put forward on his behalf was so far contained in his original claims that were abandoned by him as to be itself thereby necessarily abandoned. And this we must answer in the affirmative; for the abandonment of the whole necessarily implies and involves the abandonment of all the parts except such as are expressly and specifically retained.

This was approved in *In re Lacroix*, 30 App. D. C. 299, 133 O. G. 2181.

[3] A consideration of these authorities leads us to this inquiry: Were the elements relied upon to constitute invention in said claim 3, namely, "outward flanges and tubes having inner end portions abutting against and fastened to said outward flanges," included, either specifically or broadly, within the scope of cancelled claims 1 and 2. A reading of these cancelled claims discloses that in no respect can these inventive elements be said to be so included. The invention claimed by said rejected claim 3 is not in any sense a broadening of the subject matter of said cancelled claims, but constitutes a distinct subject matter, disclosed, but not claimed, in the original application and patent. Insofar, therefore, as the Board concluded that the principle of estoppel is applicable in the case at bar, we find ourselves out of harmony with that view.

For the reasons stated, the decision of the Board of Appeals is affirmed as to rejected claims 1 and 4, and reversed as to said claim 3.

Modified.

U. S. Court of Customs and Patent Appeals

IN RE KASER

No. 3,232. Decided April 24, 1933

REISSUE—BROADENED CLAIMS—DELAY IN FILING APPLICATION.

The Patent Office in determining whether an application for a reissue of a patent should be granted, where such application was filed more than two years after the issuance of the patent, properly applied the rule announced by the Supreme Court of the United States in determining whether a reissue patent granted under such circumstances is valid.

APPEAL from the Patent Office. Affirmed.

Mr. Wm. R. Rummler and *Messrs. Rummler, Rummler & Woodworth* for Kaser.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GARRETT, *J.*:

This appeal involves the right of appellant to have granted an application for the reissue of a patent allowed by the United States Patent Office, the reissue application not having been filed until more than two years after the grant of the patent. It is submitted, largely, upon an agreed statement of facts.

The allowed patent bears date of March 6, 1928, being granted upon an application filed March 7, 1927. The application for reissue was filed June 26, 1930, or 2 years, 3 months and 20 days after the grant. The original application was for "Improvements in Lockers" and embraced five claims. The reissue application sought to add a sixth claim expressed as follows:

> 6. A locker having two compartments with separate doors, a lock for one of said doors, a latch for the other door, and an interlock actuated by said one door and controlling the operation of the latch for the other door.

It is agreed in the statement of facts that the claim is broader than any claim in the original application, but that it "is not anticipated by any prior art reference found by the Examiner." The rejection by the Examiner, whose decision was affirmed by the Board of Appeals, whence the appeal to this court was taken, was based solely upon the ground that—

> the application for reissue was filed, *with a broadened claim*, more than two years following the issue of the patent. (Italics ours).

In affirming the decision of the Examiner, the Board of Appeals cited numerous decisions of the Patent Office tribunals and of different courts, and concluded:

> In view of the decisions cited we consider the action of the Examiner correct and it is therefore affirmed.

The statutory authority for the reissue of a patent is contained in section 4916 Revised Statutes, (35 U. S. C. 64), the pertinent portion of which reads as follows:

> Whenever any patent is wholly or partly inoperative or invalid, by reason of a defective or insufficient specification, or by reason of the patentee claiming as his own invention or discovery more than he had a right to claim as new, if the error has arisen by inadvertence, accident, or mistake, and without any fraudulent or deceptive intention, the Commissioner shall, on the surrender of such patent and the payment of the duty required by law, cause a patent for the same invention, and in accordance with the corrected specification, to be reissued to the patentee or to his assigns or legal representatives, for the unexpired part of the term of the original patent.

It is to be noted that the statute itself fixes no limitation of time within which a reissue application may be filed, and the decisions below in this case are based primarily upon the authority of the cases cited. The Board cites certain decisions of the Supreme Court of the United States, the first of which, as given in the brief of the Solicitor for the Patent Office, is *Miller v. Brass Co.*, 104 U. S. 350, 21 O. G. 201. Among other things, the Court said:

> Reissues for the enlargement of claims should be the exception and not the rule. And when, if a claim is too narrow,—that is, if it does not contain all that the patentee is entitled to,—the defect is apparent on the face of the patent, and can be discovered as soon as that document is taken out of its envelope and opened, there can be no valid excuse for delay in asking to have it corrected. Every independent inventor, every mechanic, every citizen, is affected by such delay, and by the issue of a new patent with a broader and more comprehensive claim. The granting of a reissue for such a purpose, after an unreasonable delay, is clearly an abuse of the power to grant reissues, and may justly be declared illegal and void.

A second case is that of *Mahn v. Harwood et al.*, 112 U. S. 354, 357, 30 O. G. 657, where the Supreme Court said:

> The case seems to come clearly within the principles laid down in *Miller v. The Brass Company*, 104 U. S. 350, and if we were right in the conclusions arrived at in that case, we do not see how we can sustain the patent sued on in this. The counsel for the appellant seems to be aware of this, and, in his argument directs his efforts mainly to attack the principles there expressed, although they have been frequently reiterated in subsequent cases. We deem it proper, therefore, to say, once for all, that the views announced in *Miller v. The Brass Company* on the subject of reissuing patents for the purpose of expanding and enlarging the claim, were deliberately expressed and are still adhered to. As the reasons for those views were quite fully gone into at that time, it is unnecessary to repeat them at large.

Also there are references in the cases of *Wollensak v. Reiher*, 115 U. S. 96, 31 O. G. 310; *White v. Dunbar*, 119 U. S. 47, 37 O. G. 1002; *Newton v. Furst & Bradley Co.*, 119 U. S. 473, 38 O. G. 104, and *Eby v. King*, 158 U. S. 366, 158 O. G. 366.

Certain cases decided by inferior courts of the United States are also cited by the Solicitor for the Patent Office, including *Mast, Foos & Co. v. Iowa Windmill & Pump Co.*, 76 Fed. 816, and *American Automotoneer Co. v. Porter*, 252 Fed. 456.

All the foregoing cases grew out of alleged infringements, and it is the gist of appellant's argument that the decisions were based upon the intervening rights which those charged with infringement had acquired. We state the contention in the language of the brief for appellant:

> In each of the long line of cases in which the Supreme Court has refused to *enforce* a reissued patent *as against the defendant*, the latter had acquired equitable intervening rights in the interim between the date of the original patent and the date of application for reissue; the existence of such equitable intervening rights was made an issue by the pleadings; said issue was tried and decided in favor of defendant.
>
> In the Kaser case, now at bar, no such issue is present. The Supreme Court has never decided that the Commissioner of Patents was warranted in refusing to *grant* a reissue merely because of delay, or of the possibility that *someone* might afterwards be injured through unjust *enforcement* of the reissued patent. That question of *enforcement* rests with the courts after it has been duly placed in issue. We contend that the Commissioner has no right to preclude the presentation of such issue, by refusing to the applicant the *prima facie* evidence of his inventorship guaranteed to him by the patent statutes in consideration of his disclosure of his invention.

A further argument of appellant is based upon the ancient case of *Grant v. Raymond*, 31 U. S. 218, de-

cided by the Supreme Court of the United States in January, 1832, prior to the passage of the reissue statute, in 1870, the opinion being by Chief Justice Marshall. The court there upheld the validity of the reissue of a patent by Henry Clay, Secretary of State, stating that "the defect in the specification arose from inadvertence or mistake, and without any fraud or misconduct on the part of the patentee." Appellant argues that under the doctrine of this case a patentee is entitled to a reissue, the proper showing being made, "even if no reissue statute had ever been enacted."

It is argued that the "statute of reissues is a beneficent statute aimed toward certainty" and that it is in the interest of the public, the courts and litigants.

In a reply brief, filed by permission of the court, appellant reargues some of the points advanced in his original brief; insists that the Constitution of the United States and the statutes "emphasize an intention to favor the inventor"; that the "Patent Office is supposed, by the public, to apply the statute according to the will of the people as expressed therein"; that the Patent Office should follow the terms of the statute and not the terms of "any mere excerpt from a judicial opinion—(not, decision or decree)—written in explanation of some other case"; comments upon the failure of Congress, after the decision in *Mahn* v. *Harwood*, supra, to fix a time limit in the reissue statute and the effect of inserting the words "wholly or partly" therein, and presents variations of these several arguments.

Careful consideration has been given to appellant's interesting and rather fundamental contentions, and we have sought to ascertain the true interpretation of the decisions of the Supreme Court and other courts, with the view of determining whether they should be controlling in an ex parte proceeding such as that at bar.

Appeals from the Patent Office, such as this, are held not to be within the jurisdiction of the Supreme Court of the United States, *Postum Cereal Co.* v. *California Fig Nut Co.*, 272 U. S. 693, 358 O. G. 811, and cases therein cited.

Consequently, the precise issue here presented has not been passed upon by that tribunal, except as the ratio decidendi of the decisions in the infringement cases alluded to is in point.

A careful reading of the full text of those opinions convinces us that the Supreme Court and the other courts in the cases respectively presented, rested their decisions upon at least two grounds, either of which grounds was determinative of the issues involved. The first ground was that of the intervening rights acquired by the alleged infringers in the case, and the second was that of the general rights of the *public*.

For example in *Miller* v. *Brass Co.* supra, it is said:

> * * * in reference to reissues made *for the purpose of enlarging the scope of the patent*, the rule of laches should be strictly applied; and no one should be relieved who has slept upon his rights, and has thus led the *public* to rely on the implied disclaimer involved in the terms of the original patent. (Italics ours).

It is noted that the opinion of the Supreme Court in the foregoing case, expressly distinguishes cases in which reissue is sought for the purpose of broadening claims, from cases in which reissue is sought because of the invalidity or inoperativeness of the original grant "for want of a full and clear description of the invention," and indicates that a reissue in the latter class of cases "may be proper * * * though a longer [than two year] period has elapsed since the issue of the original patent."

It does not appear from Chief Justice Marshall's opinion in *Grant* v. *Raymond*, supra, that any "broadening of the claims" over the original patent was present in the reissued patent. That question is nowhere alluded to in the opinion, nor in the syhopsis of the arguments of counsel, one of whom (for defendant in Supreme Court), it is interesting to note, was Daniel Webster.

It is also worthy of note that the reissue statute, supra, does not expressly provide for a reissue in cases where the applicant, in his original grant, claimed *less* than he had a right to claim as new. Upon the phase of breadth of claims, the statute refers specifically only to cases in which an applicant originally claimed *more* than he had a right to claim as new, and it is suggested by the Solicitor for the Patent Office that "strict interpretation of the statute would not permit an enlarged claim at *any* time." (Italics ours). It is not, as we understand it, the practice in the Patent Office to give such strict interpretation in cases where the terms of the statute are met, but enlarged claims presented after two years are not allowed.

The reply brief for appellant refers to the opinion in the case of *Mahn* v. *Harwood*, supra, as "much overworked." However often it may have been cited, we observe that the decision in the case has not been overruled by the Supreme Court, nor has there been any retraction by that tribunal of any of the reasoning of the opinion, so far as we are advised. One of the reasons given in the opinion for the judgment there rendered is stated at pages 359, 360 of 112 U. S., in the following language:

> Now, in our judgment, a patent for an invention cannot lawfully be reissued for the mere purpose of enlarging the claim, unless there has been a clear mistake inadvertently committed in the wording of the claim, and the application for a reissue is made within a reasonably short period after the original patent was granted. The granting of such reissues after the lapse of long periods of time is an abuse of the power, and is founded on a total misconception of the law. The Commissioner of Patents has evidently proceeded, in these cases, on the view that a patent may be reissued after any lapse of time, for the purpose of making a broader claim, by merely showing that the claim might have been broader than it was, and that it was inadvertently made too narrow at the time. In this we think he has been entirely in error. Lapse of time may be of small consequence on an application for the reissue of a patent on account of a defective specification or description, or where the original claim is too broad. But there are substantial reasons, not applicable to these cases, why a claim cannot be enlarged and made broader after an undue lapse of time. The rights of the public here intervene, which are totally inconsistent with such tardy reissues; and the great opportunity and temptation to commit fraud after any considerable lapse of time, when the circumstances of the original application have passed out of mind, and the monopoly has proved to be of great value, make it imperative on the courts, as a dictate of justice and public policy, to hold the patentees strictly to the rule of reasonable diligence in making applications for this kind of reissues.

We do not view the foregoing expression as being obiter dictum, but as being one of the vital reasons upon which the judgment rendered in the case was grounded, and, to our minds, a most anomalous and perplexing condition in the patent system would result should the Patent Office and this court, by adopting appellant's view as to their respective powers and duties under the statute, disregard the obvious and clearly stated implications which the quoted language conveys. Such a course would probably result in a continuous reissue of patents which, at the first opportunity, the Supreme Court would declare invalid, and we should have a state of confusion which sound public policy requires should be avoided.

We are unable to agree with the soundness of appellant's contention that an inference as to the correctness of his view of the duty of the Patent Office, under the statute, may be drawn from the failure of Congress (after the opinion in *Mahn* v. *Harwood*, supra),

> to inject into the statute some provision of limit of time for filing application to broaden a patent.

The decision in that case was rendered in 1884, and, were section 4916 Revised Statutes, (35 U. S. C. A. 64), supra, so ambiguous in its terms as to make proper a study of its legislative history in order to arrive at the legislative intent (a matter we do not here concede), it seems to us that, from the failure to amend it in the particular suggested by appellant (although amending it in other respects), after the decision and the practice which the Patent Office adopted thereunder, a conclusion as to the legislative will directly contrary to that offered by appellant must be deduced. Under the decision it was not necessary expressly to fix a two year time limit by statute. The construction given the section by the court did that, in effect, unless special circumstances are shown to excuse further delay.

The two year limitation upon reissue applications, filed for the purpose of broadening the claims, is based upon the doctrine that there has been an abandonment to the public of any matter disclosed, but not claimed in the original, and an analogy is found in section 4886 Revised Statutes, (35 U. S. C. A. 31), the basic section providing for and defining patentable inventions. This section requires, among other things, that the matter upon which one seeks patent shall not have been—

> in public use * * * in this country for more than two years prior to his application, unless the same is proved to have been abandoned.

In the case of *Miller* v. *Brass Co.*, supra, the Supreme Court of the United States said:

> If two years' public enjoyment of an invention with the consent and allowance of the inventor is evidence of abandonment, and a bar to an application for a patent, a public disclaimer in the patent itself should be construed equally favorable to the public.

In other words, the failure to claim, in the original application, matter which might have been claimed under the disclosure is treated as an abandonment of such matter, apparently equivalent, in a sense, to a "public disclaimer" thereof, and same cannot be subsequently obtained by a reissue, unless the reissue application be filed within the two year period fixed by the basic section of the law as a condition of patentability.

It is to be borne in mind that the constitutional provision for the grant of patents, like most other provisions of the organic law, is not self executing in its terms, but requires the interposition of the legislative power. It reads:

> The Congress shall have power * * * To promote the progress of science and useful arts, by securing for limited times to authors and inventors the exclusive right to their respective writings and discoveries.

It is unnecessary here to discuss at length the reasons for the inclusion of this authority in the grant of powers to the Federal Government of which the Constitution is the framework. One result was to avoid questions which might have grown out of the common law relating to monopolies.

It was, and is, left to the discretion of Congress to determine the conditions and limitations upon which, for a limited time, monopoly as to discoveries and inventions may be granted.

Another reason which governs this court in arriving at its conclusion herein is found in a long line of decisions of the Court of Appeals of the District of Columbia, our immediate predecessor in this jurisdiction.

That court, in the ex parte case of *In re Starkey*, 21 App. D. C. 519, 104 O. G. 2150, citing the Supreme Court decisions referred to, supra, and others, declared:

> We must now regard the law as well settled by the Supreme Court of the United States, that, after the lapse of two years after the issue of a patent, a reissue which seeks to enlarge the claims of the original patent will not be granted or, if granted, will be held invalid unless special circumstances are shown to excuse the delay. No such circumstances are shown in the present case.

The rule there declared was subsequently continuously and consistently applied by that court in cases such as *In re Schneider*, 49 App. D. C. 204, 261 Fed. 427, 271 O. G. 362; *In re Otto*, 49 App. D. C. 89, 265 O. G. 308; *In re Hoiland*, 50 App. D. C. 268, 270 Fed. 704, 285 O. G. 393; *In re Hernandez-Mejia*, 54 App. D. C. 404, 328 O. G. 255; *In re Mummert*, 51 App. D. C. 258, 278 Fed. 399, 298 O. G. 414; *In re Claude*, 56 App. D. C. 281, 12 F.(2d) 816, 352 O. G. 1048; *In re Markel*, 57 App. D. C. 97, 17 F.(2d) 685, 358 O. G. 577; *In re Schroeder*, 52 App. D. C. 67, 310 O. G. 235.

Appellant's analysis and discussion of those cases in his reply brief does not convince us that the doctrine there enunciated should be overruled, an action which, we think, would have to be taken to sustain appellant's appeal.

The decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

1,173,079, E. F. Alexanderson, Selective tuning system; 1,195,632, W. C. White, Circuit connections of electron discharge apparatus; 1,251,877, A. W. Hull, Method of and means for obtaining constant direct current potentials; 1,728,879, Rice & Kellogg, Amplifying system;

1,573,374, P. A. Chamberlain, Radio condenser, D. C., E. D. N. Y., Doc. E 6721, *Radio Corp. of America* v. *Vim Electric Co., Inc.* Consent decree for plaintiff June 29, 1933.

1,195,632. (See 1,173,079.)

1,195,632, W. C. White, Circuit connections of electron discharge apparatus; 1,251,377, A. W. Hull, Method of and means for obtaining constant direct current potentials; 1,297,188, I. Langmuir, System for amplifying variable currents; 1,728,879, Rice & Kellogg, Amplifying system; 1,811,095, H. J. Round, Thermionic amplifier and detector; Re. 18,579, Ballantine & Hull, Demodulator and method of demodulation, filed June 28, 1933, D. C., S. D. Calif. (Los Angeles), Doc. E 12–J, *Radio Corp of America et al.* v. *D. W. Rogers (Los Angeles Radio Mfg. Co.) et al.*

1,231,764, F. Lowenstein, Telephone relay; 1,618,017, same, Wireless telegraph apparatus; 1,403,475, H. D. Arnold, Vacuum tube circuit, D. C., E. D. N. Y., Doc. E 6720, *Radio Corp. of America* v. *Vim Electric Co., Inc.* Consent decree for plaintiff June 29, 1933.

1,251,377. (See 1,173,079 and 1,195,632.)

1,297,188. (See 1,195,632.)

1,396,070, Shoup & Oliver, Paper-feed device for autographic registers, D. C., N. D. Calif. (San Francisco), Doc. E 2691–L, *Autographic Register Co.* v. *Pacific Manifolding Book Co.* Discontinued June 22, 1933.

1,399,566, I. Lazarus, Projection screen, filed May 15, 1933, D. C. Minn. (St. Paul), Doc. 2768, *The Da-Lite Screen Co.* v. *W. H. C. Lassen.*

1,403,475. (See 1,231,764.)

1,513,281, M. J. Sheehan, Automatic cone and tube gauge, D. C. R. I., Doc. 392, *M. J. Sheehan et al.* v. *Universal Winding Co.* Dismissed without prejudice May 22, 1933.

1,573,374. (See 1,173,079.) 1,618,017. (See 1,231,764.)

1,645,950, 1,823,143, 1,830,466, 1,852,459, F. J. Hines, Electrical receptacle, filed June 27, 1933, D. C., S. D. N. Y., Doc. E 76/153, *Hines Electrical Specialties, Inc.*, v. *General Electric Supply Corp.*

1,653,841. (See Re. 17,213.)

1,667,827, J. Siegel, Garment, filed June 26, 1933, D. C., S. D. Ohio, W. Div., Doc. 860, *American Lady Corset Co., Inc.*, v. *The Big Store Co.*

1,695,534, W. C. Carter, Pump diaphragm; 1,847,445, Randolph & Ford, Diaphragm for fuel pumps and method of making same, filed June 22, 1933, D. C., E. D. Mich. (Detroit), Doc. 6005, *A. C. Spark Plug Co.* v. *Stewart Warner Corp.*

1,727,298, A. C. Miller, Engine construction, filed June 24, 1933, D. C., M. D. Pa., Doc. 7753, *Ramsey Accessories Mfg. Corp.* v. *Wilkening Mfg. Co. et al.*

1,728,837, G. Slayter, Method of heat insulating, filed June 29, 1933, D. C. Conn. (New Haven), Doc. E 2301, *Slayter & Co.* v. *Bartlett-Brainard Co.* (*Southern N. E. Insulation Co.*).

1,728,879. (See 1,173,079 and 1,195,632.)

1,811,095. (See 1,195,632.) 1,823,143. (See 1,645,950.)

1,830,466. (See 1,645,950.) 1,847,445. (See 1,695,534.)

1,852,459. (See 1,645,950.)

1,911,600, Boberts & La Fontaine, Automobile hood, filed June 14, 1933, D. C., E. D. Mich. (Detroit), Doc. 5986, *G. H. Boberts, Jr., et al.* v. *Busch Mfg. Co.*

Re. 17,213, H. W. Carlough, Hair waving pad, D. C. R. I., Doc. 372, *Keen Mfg. Corp.* v. *C. A. Beckwith (Ruth Mfg. Co.).* Dismissed without prejudice May 22, 1933.

Re. 18,579. (See 1,195,632.)

Des. 84,811, R. De Boer, Combination ash receiver and electric lighter, D. C., E. D. Mich. (Detroit), Doc. 5358, *Grand Rapids Metalcraft Corp.* v. *Casco Products Corp.* Patent held infringed June 22, 1933.

Des. 86,360, A. Epstein, Knitted cap, filed June 26, 1933, D. C., S. D. N. Y., Doc. E 76/150, *Epstein & Hammer, Inc.*, v. *Regal Knitting Co., Inc.*

Disclaimers

1,517,018.—*Charles R. Seaborne*, Niagara Falls, N. Y. PAPER-MAKING MACHINE. Patent dated November 25, 1924. Disclaimer filed July 24, 1933, by the assignee, *American Lakes Paper Company.*

Petitionere, therefore,

1. Disclaims from the scope of each and all of the claims of said Letters Patent any paper making machine having a marking roll which has an outer rubber layer or cover unless said layer or cover has a marking surface ground or cut thereon.

2. Disclaims from the scope of each and all of the claims of said Letters Patent any paper making machine having a marking roll provided with an outer rubber layer or cover with a molded marking surface.

3. Disclaims from the specification of said patent the word "formed" in line 2 of page 3, of said specification.

4. Limits the scope of each and all of the claims of said Letters Patent to paper making machines having a cylinder with which cooperates a marking roll having an outer layer or cover wherein the marking pattern or design is ground or cut.

1,831,946.—*Walter R. Broeler*, Detroit, Mich. ALLOY STEELS. Patent dated November 17, 1931. Disclaimer filed July 22, 1933, by the assignee, *Ludlum Steel Co.*

Hereby enters this disclaimer to that part of the claims in said specification which are in the following words, to wit:

"1. An alloy steel that may be cast, forged, or rolled, having the property of free machinability, and that may be hardened by nitriding, comprising—

	Per cent
Carbon	in effective amounts up to 1.00
Aluminum	0.5 to 2.00
Manganese	0.25 to 2.00
Sulphur	0.15 to 0.25
Phosphorus	0.05 to 0.10
Chromium	0.50 to 3.50
Silicon	in effective amounts up to 2.00
Molybdenum	in effective amounts up to 0.50
Vanadium	in effective amounts up to 0.50
Zirconium	in effective amounts up to 0.20

Balance, principally iron.

2. An alloy steel that may be cast, forged, or rolled, having the property of free machinability, and that may be hardened by nitriding, comprising—

	Per cent
Carbon	in effective amounts up to 1.00
Aluminum	0.5 to 2.00
Manganese	0.25 to 2.00
Sulphur	0.15 to 0.25
Chromium	0.50 to 3.00
Phosphorus	0.05 to 0.10
Silicon	in effective amounts up to 1.00

Balance, principally iron."

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 22, 1933

[VOL. 433. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 339,216. APPALACHIAN COALS, INCORPORATED, Cincinnati, Ohio. Filed June 26, 1933.



The exclusive use of the words "Stability," "Quality," "Service" and the geographical abbreviations for Kentucky, Tennessee, West Virginia, and Virginia, and the representation of the maps is disclaimed excepting in connection with the mark as shown.

For Coal.

Claims use since June 6, 1933.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 339,615. UNITED STATES TRAVELWARE CORPORATION, Fitchberg, Mass. Filed July 10, 1933.

"Airway"

For Suitcases.

Claims use since Feb. 16, 1933.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 335,235. HIGLEY CHEMICAL COMPANY, Dubuque, Iowa. Filed Feb. 24, 1933.

CLEAN-O-MIST

For Chemical Compound for Cleaning Floors, Having Incidental Preserving and Polishing Properties.

Claims use since Sept. 25, 1930.

Ser. No. 335,824. THE HEWITT BROS. SOAP COMPANY, doing business as Launette Products Company, Dayton, Ohio. Filed Mar. 18, 1933.

Launette

For Washing Powder Which Whitens and Blues the Clothes.

Claims use since July 1, 1932.

Ser. No. 338,936. BENJAMIN MELTZER, New York, N. Y. Filed June 17, 1933.

Practi-kreme

Reserving unto himself, all of his common law rights, applicant disclaims sole right to the word "Kreme" apart from the mark as shown.

For Detergent Hand Cleaner.

Claims use since June 15, 1933.

Ser. No. 338,947. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed June 17, 1933.

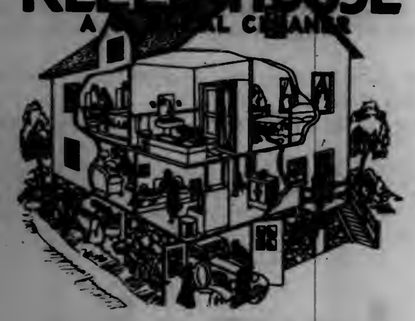
NU-TRIM

For Paste for Cleaning and Polishing Painted, Varnished, Lacquered, and Enameled Surfaces.

Claims use since June 6, 1933.

Ser. No. 339,036. KLEEN CHEMICAL COMPANY, Philadelphia, Pa. Filed June 20, 1933.

KLEEN-HOUSE



No claim is made to the words "A General Cleaner" apart from the mark shown in the drawing, without, however, waiving any common-law rights thereto.

For Water Softener and Cleaning Compound Which is Harmless to the Hands, but Destroys and Removes Grease, Scum, and Dirt of All Kinds from Dishes Glassware, Pots, Pans, Porcelain, Tile, Linoleum, Painted Surfaces, Automobile and Other Vehicle Materials, Rubber, Cement, Clothes, and Other Textile Fabrics.

Claims use since Dec. 1, 1932.

Ser. No. 339,646. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed July 11, 1933.

ENNJAY

For Harness Oil, Leather Oil, and Belt Dressing.

Claims use since June 8, 1933.

Ser. No. 339,754. OTHMAR JOSEPH MENDLIK, doing business as Fi-Ba-So Products Co., Tyngsboro, Mass. Filed July 14, 1933.

MENDLIK'S
FI-BA-SO

For Cleaning Preparation for the Hands.

Claims use since May 20, 1933.

CLASS 5

Adhesives

Ser. No. 337,141. SOLDINE CORPORATION, Chicago, Ill. Filed Apr. 24, 1933.



The lining in the drawing indicates the colors red and black.

For Adhesive Compound (Said Adhesive Compound Being More Particularly Described as a Plastic Adhesive Suitable for the Mounting of Metal, Wood, Leather, Leaky Pipes, Radiators, Furniture, and Fixtures).

Claims use since Jan. 21, 1932.

Ser. No. 337,221. GENERAL MANUFACTURING CORPORATION, Richmond, Va. Filed Apr. 27, 1933.

TyWOOD

For Adhesive Tape for Fusing Wood Together and for Cementing Stone, Glass, Metal, Fiber, Leather, and Fabrics, and for Mixing with Sawdust to Make Plastic Wood and Crack Fillers.

Claims use since Apr. 10, 1933.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 326,015. FÉLIX GUILLARD-BRIBES & Co., PERLES, Paris, France. Filed Apr. 12, 1932.



The word "Microradium" for use per se is hereby disclaimed.

For Beauty Creams for the Face, Ointments Against Pains, Rheumatism, Skin Eruptions, and Generally to Pharmaceutical Products and Hygienic Preparations for External Use Containing Radium Active Salts Subjected to the Action of Radium Emanations.

Claims use since Feb. 4, 1932.

Ser. No. 330,556. THE TEXAS COMPANY, New York, N. Y. Filed Sept. 21, 1932.

NATEX

For So-Called Naphthenic Acids Derived from Petroleum, Which Acids May be Used as Substitutes for Fatty Acids in the Manufacture of Various Types of Soap and Also in the Preparation of Paint Driers, Preservatives, Insecticides, Fungicides, Emulsifying Agents, and the Like.

Claims use since Aug. 28, 1932.

Ser. No. 332,006. JOH. GOTTL. HAFFTMANN, A. G. Pirna, Germany. Filed Nov. 9, 1932.



The Corporation disclaims apart from the mark as shown on the drawing the words "Fabrik," "Marke," "Magenbitter," and "nach dem Recepte des Dr. Pienitz."

For Stomach Bitters.

Claims use since October, 1894.

Ser. No. 332,748. CITROLAX CORPORATION, New York, N. Y. Filed Dec. 1, 1932.

CITRESIA

For Laxative Preparations.

Claims use since Feb. 1, 1932.

Ser. No. 335,605. SAMUEL E. MURRAY, doing business as Beaufix Laboratories, New York, N. Y. Filed Mar. 10, 1933.

MURRAY'S
EX-I-NUS

For Nose and Throat Spray.

Claims use since June 17, 1932.

Ser. No. 336,882. TRINITY LABORATORIES, INC., Austin, Tex. Filed Apr. 3, 1933.

Lorelei

For Permanent Waving Solutions, Finger Waving Compound, Brilliantine, Cleansing Cream, Tissue Cream, Astringent, Powder Face Lotion, Perfume, Talcum Powder, Face Powder, Rouge, Lipstick, Eyeshadow, Face Pack, Shampoo, and Hair Tonic.

Claims use since Mar. 1, 1924.

Ser. No. 337,713. WILLIAM J. TRAPHAGEN, doing business as The Trabau Company, Philadelphia, Pa. Filed May 11, 1933.

TUF-FUT
CREAM

Applicant disclaims the word "Cream" apart from the mark as shown in the drawing.

For Medicinal Compound, Used as an Antiseptic, for the Relief of Infections of the Feet.

Claims use since May 20, 1932.

Ser. No. 337,947. ECKERD'S OF ERIE, INC., Erie, Pa. Filed May 18, 1933.

LOUPAY

For Toilet Creams, Lotions (e. g. Skin Lotion, Skin Tonic, Hand Lotion, and Almond Lotion), Toilet Waters, Hair Tonic, Shampoo, Rouge, Lip Sticks, Face Powder, Talcum Powder, Manicure Preparations (e. g. Nail Polish, Nail Polish Remover, and Cuticle Remover).

Claims use since May 15, 1932.

Ser. No. 338,283. FREDERICK R. DUESBERG, East Greenbush, N. Y. Filed May 27, 1933.



For Medicine Used for Treatment of Distemper and Other Diseases of Dogs and Other Animals.

Claims use since May 23, 1933.

Ser. No. 338,342. SPOONER, INC., New York, N. Y. Filed May 29, 1933.

PITROD

For Body Deodorants.
Claims use since Dec. 20, 1932.

Ser. No. 338,410. THE GLAZO COMPANY, INC., New York, N. Y. Filed June 1, 1933.



The drawing is lined for green.
For Liquid Nail Polish, Liquid Nail Polish Remover, Cuticle Remover, Cuticle Massage Cream, Nail White Cream.
Claims use since May 22, 1933.

Ser. No. 338,438. SOLABINE COMPANY, Baltimore, Md. Filed June 1, 1933.

"OLD SOL"



For a Liquid Chlorine Solution Intended for Use as a Bleach in Laundering, for Reed and Wicker Furniture, and for Hardwood and Softwood Floors; for Removing Stains Such as Scorch or Mildew; as a Cleanser, Stain Remover, Disinfectant, Germicide, or Deodorant; for Toilet Bowls, Drain Pipes, Garbage Cans, and Utensils Used in Sick Rooms; as a Disinfectant for Personal Use, to Disinfect and Remove Stains from Dental Plates; and Also to Relieve Such Infections as Burns, Cuts, Scratches, Surface Wounds, Poison Oak, and Sumac; for Use for the Bath and to Soften Corns or Callouses, Destroy Odors and for the Relief of Athlete's Foot.
Claims use since Mar. 15, 1933.

Ser. No. 338,503. STEPHEN K. SASS, Chicago, Ill. Filed June 3, 1933.

ANOLA

For Salve for Pains, Cramps, Acute Pleurisy, Rheumatism, and Like Maladies.
Claims use since Dec. 21, 1911.

Ser. No. 338,574. NAAMLOOZE VENNOOTSCHAP GEVAERT PHOTO-PRODUCTEN (SOCIÉTÉ ANONYME PHOTO-PRODUITS GEVAERT, Oude-God near Antwerp, Belgium. Filed June 6, 1933.

CORRECTONA

For Photographic Chemicals.
Claims use since Jan. 1, 1933.

Ser. No. 338,918. WARWICK CHEMICAL COMPANY, West Warwick, R. I. Filed June 16, 1933.

WARCO

For Chemical Materials for Use for Treating and Finishing Textiles.
Claims use since Feb. 6, 1933.

Ser. No. 338,978. JAMES LOVE, doing business as The Iokelp Company, San Diego, Calif. Filed June 19, 1933.

IOKELP

For Dried Sea-Plant Products for Use as a Dietary Supplement for Iodine Deficiency.
Claims use since Feb. 1, 1933.

Ser. No. 338,993. J. FRED OBERWINDER, St. Louis, Mo. Filed June 19, 1933.

Ped-i-Septic

For Preparation for the Treatment and Relief of Ailments of the Human Foot.
Claims use since June 13, 1933.

Ser. No. 339,008. LUCY J. SAXE, doing business as Pakit Company, Baltimore, Md. Filed June 19, 1933.

PAKIT

. For Series of Medicines Used in Treating Colds and Other Ailments and Vended in a Single Container.
Claims use since May 31, 1933.

Ser. No. 339,031. HAPPY FEET COMPANY, Los Angeles, Calif. Filed June 20, 1933.



For Foot Powder.
Claims use since May 1, 1933.

Ser. No. 339,054. J. ELLIOTT WILEY, doing business as The Amasul Products Co., Philadelphia, Pa. Filed June 20, 1933.

Posofar

For Water Softening and Cleaning Compounds.
Claims use since Jan. 5, 1933.

Ser. No. 339,057. THE AMERICAN VARNISH CO., Chicago, Ill. Filed June 21, 1933.

MURASAN

For Preparations for the Treatment of Paper to Make Same Washable.
Claims use since Jan. 26, 1933.

Ser. No. 339,088. ELIZABETH WEST, Chicago, Ill. Filed June 21, 1933.

ELIMAR

For Medicinal Salve for Treatment of Corns and Callouses.
Claims use since May 26, 1933.

Ser. No. 339,104. G. E. SPECIALTY CO., Brooklyn, N. Y. Filed June 22, 1933.

FLYFO

For Insecticide and Disinfectant.
Claims use since June, 1931.

Ser. No. 339,208. HAROLD K. SLADE, Bannister, Mich. Filed June 24, 1933.

Solderex

For Liquid Preparation Having Adhesive Ingredients and Used for Repairing Leaky Automotive Cooling Systems, Automotive Radiators, Cracked Water Jackets, and Split Motor Blocks, as Well as Repairing Hot Water and Steam Heating Boilers.
Claims use since Aug. 1, 1927.

Ser. No. 339,352. HERCULES POWDER COMPANY, Wilmington, Del. Filed June 29, 1933.

CABINOL

For Preparation for Killing Wood-Destroying Insects.
Claims use since May 26, 1933.

Ser. No. 339,371. DAISY TODD BEAUTY PREPARATIONS, New York, N. Y. Filed June 29, 1933.
The trade-mark is in the handwriting of Daisy Todd Johnson, a member of the firm.

Daisy Todd

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs; Skin Whitener in Liquid, Cream, and Solid Form; Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations Suitable for the Darkening of Eyebrows and Eyelashes, Hand Lotions, Skin Lotions, After-Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Depilatories,

Tooth Pastes, Nail Creams, Nail Bleaches, Nail Powders, Nail Polishes, Witch-Hasel, Peroxide, Petroleum Jellies, Witch-Hasel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since June 26, 1933.

Ser. No. 339,644. PHYSICIANS SUPPLY COMPANY, INC., York, Pa. Filed July 11, 1933.

ELIXIR BROMITAL

No registration rights are claimed in the word "Elixir" apart from the other features of the mark.
For Sedative and Hypnotic Medicinal Elixir.
Claims use since June 20, 1933.

Ser. No. 339,659. FOUR SEASONS PRODUCTS COMPANY, East Orange, N. J. Filed July 11, 1933.



For Skin Softening and Healing Lotion.
Claims use since Mar. 24, 1933.

Ser. No. 339,695. SEYMOUR S. WANDERMAN, doing business as Hayban Laboratories, New York, N. Y. Filed July 12, 1933.

HAYBAN

For Cough Mixture.
Claims use since February, 1933.

Ser. No. 339,723. DARRELL HILL, doing business as the Hillite Laboratories, Baltimore, Md. Filed July 13, 1933.

HILLITE

For Preparation for the Treatment of Athlete's Foot.
Claims use since July 6, 1933.

CLASS 10

Fertilizers

Ser. No. 331,319. POTASAS IBERICAS S. A., Madrid, Spain. Filed Oct. 17, 1932.



For Manure, Fertilizers—Namely, Salts of Potash, Kainite, and Muriate of Potash.
Claims use since September, 1932.

CLASS 11

Inks and Inking Materials

Ser. No. 339,100. CODO MANUFACTURING CORPORATION, Coraopolis, Pa. Filed June 22, 1933.

KEEN-RITE

For Typewriter Ribbons and Carbon Papers.
Claims use since September, 1920.

Ser. No. 339,222. CODO MANUFACTURING CORPORATION, Coraopolis, Pa. Filed June 26, 1933.

Codo
Super-kote

The exclusive use of the word "Kote" is disclaimed apart from the mark as shown.
For Carbon Papers.
Claims use since April, 1932.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 328,381. THE YOUNGSTOWN SHEET & TUBE COMPANY, Youngstown, Ohio. Filed June 28, 1932.

PLIADUC

For Ferrous Metal Sheets, Plates, Tin Plate, Black Plate, and Tin Plate Bar.
Claims use since June 8, 1932.

CLASS 15

Oils and Greases

Ser. No. 331,666. THE HYDROCARBON COMPANY, State College, Pa. Filed Oct. 20, 1932.

HYDROIL

For Motor Lubricating Oils.
Claims use since Oct. 1, 1931.

Ser. No. 336,725. RADSILL OIL CO., INC., Philadelphia, Pa. Filed Apr. 13, 1933.

THRIFT LUBE

For Lubricating Oil.
Claims use since Jan. 30, 1933.

Ser. No. 337,619. GEORGE I. RAY, Charlotte, N. C. Filed May 8, 1933.

FIREZONE

For Lubricant to be Added to Gasoline.
Claims use since Apr. 17, 1933.

Ser. No. 339,554. EVEREADY OIL CO., INC., Philadelphia, Pa. Filed July 7, 1933.



For Kerosene.
Claims use since Sept. 26, 1932.

Ser. No. 339,596. ALLIED PETROLEUM CORPORATION, Warren, Pa. Filed July 10, 1933.

HIGH-FIELD

For Lubricating Oils.
Claims use since July 7, 1933.

Ser. No. 339,650. WAVERLY OIL WORKS COMPANY, Pittsburgh, Pa. Filed July 11, 1933.

Penn-Glide

For Lubricating Oils and Greases.
Claims use since May 19, 1933.

Ser. No. 339,652. WAVERLY OIL WORKS COMPANY, Pittsburgh, Pa. Filed July 11, 1933.

WILSTAR

For Lubricating Oils and Greases.
Claims use since June 2, 1933.

CLASS 16

Paints and Painters' Materials

Ser. No. 339,532. LIQUID VENEER CORPORATION, Buffalo, N. Y. Filed July 6, 1933.

SENSATION

For Polish for Automobiles, Pianos, Furniture, and for Other Articles or Objects Having Smooth Surfaces. Also for Varnished, Lacquered, Japanned, or Enameled Surfaces, and for Window and Other Glass.
Claims use since June 23, 1932.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 339,504. THE SILEX COMPANY, Hartford, Conn. Filed July 5, 1933.

SILEX

For Electric Coffee Makers.
Claims use since Nov. 1, 1925.

Ser. No. 339,003. INVENTORS MANUFACTURING CORPORATION, Chicago, Ill. Filed July 10, 1933.

BAR-B

For Electrical Cooking Devices.
Claims use since Apr. 12, 1933.

CLASS 22

Games, Toys, and Sporting Goods

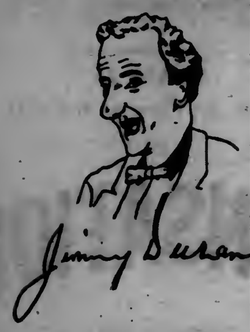
Ser. No. 338,247. W. E. HASKELL HEALTH FURNITURE CO. INC., Springfield, Mass. Filed May 26, 1933.

CLIMB-A-ROUND

For Playground Exercising Devices for Children.
Claims use since Mar. 28, 1932.

Ser. No. 339,776. JIMMY DURANTE, doing business as James Durante, New York, N. Y. Filed July 15, 1933.

SCHNOZZLE



For Jig Saw Puzzles, Papier-Mâché Masks, Playing Cards, Board Games, Toys of Metal, Wood, Cardboard, and/or Combinations Thereof, and Baseball Gloves.
Claims use since Mar. 30, 1933.

Ser. No. 339,847. THE L. A. YOUNG COMPANY, Detroit, Mich. Filed July 17, 1933.

BINGO

For Wood and Metal Golf Clubs.
Claims use since July 6, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 334,536. PEERLESS KEY COMPANY, INC., New York, N. Y. Filed Feb. 1, 1933.



"Peerless" is disclaimed apart from the mark as shown in the drawing; applicant disclaims the representation of the typewriter keys apart from the arrangement and mark shown in the drawing. The drawing is lined to indicate green color.
For Typewriter Keys, Typewriter Twirler Rings, and Typewriter Shock Absorbers.
Claims use since August, 1932.

Ser. No. 337,631. BLOOMINGDALE BROS., INC., New York, N. Y. Filed May 9, 1933.

Sally Stitch

For Electric Sewing Machines.
Claims use since Apr. 27, 1933.

Ser. No. 338,917. RUSSELL S. WALKER, Duluth, Minn. Filed June 16, 1933.

Panhandle

For Hot Dish Lifters.
Claims use since May 1, 1933.

Ser. No. 338,968. CONTINENTAL BLADE CORPORATION, Brooklyn, N. Y. Filed June 19, 1933.

ACORN

For Razors and Razor Blades.
Claims use since June 9, 1933.

Ser. No. 339,013. WILSON-JONES COMPANY, Chicago, Ill. Filed June 19, 1933.

Hummer

For Punching Machines as Office Appliances for Perforating Sheets.
Claims use since Oct. 7, 1912.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 328,840. CARL ZEISS, Jena, Germany. Filed May 5, 1932.

Kipronar

For Objectives.
Claims use since Nov. 6, 1930.

Ser. No. 338,919. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed June 16, 1933.

ELECTRYNX

For Microammeters.
Claims use since Mar. 1, 1933.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 337,404. GEORGE SCOTT WILSON, Edinburgh, Scotland. Filed May 2, 1933.

SPORK

For Combination Fork and Spoon of Precious Metal for Table Use.
Claims use since Mar. 30, 1933.

Ser. No. 339,116. PHI ALPHA THETA, Greeley, Colo. Filed June 22, 1933.

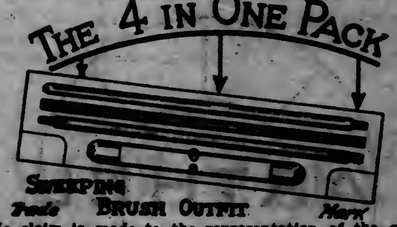
ΦAΘ

For Fraternity Badges, Lapel Buttons; Scarf, Lapel, and Breast Pins; Cuff Links, Tie Clasps, Charms, Finger Rings, Belt Buckles, and Ornamental Shields, All of Precious Metal.
Claims use since May 1, 1924.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 326,833. NEW JERSEY BRUSH MANUFACTURING CO., INC., Newton, N. J. Filed Apr. 1, 1933.



No claim is made to the representation of the goods nor to the wording appearing on the drawing with the exception of the words "The 4 in One" apart from the mark shown, but in making this disclaimer applicant does not relinquish any of its common-law rights.
For Brushes of All Types—Namely, Scrub Brushes, Paint Brushes, Floor Brushes, Sweeping Brushes, Clothes Brushes, Nail Brushes, and Tooth Brushes.
Claims use since July 28, 1932.

CLASS 31

Filters and Refrigerators

Ser. No. 338,981. MELCHIOR, ARMSTRONG, DESSAU CO. OF DELAWARE, INC., New York, N. Y. Filed June 19, 1933.

MELCO

BRAND

No claim is made to the exclusive use of the word "Brand" apart from the mark as shown in the drawing, without, however, waiving applicant's common-law right to the use of this word to form the complete mark.
For Replacement Parts for Domestic and Commercial Refrigerators.
Claims use since June 28, 1932.

CLASS 32

Furniture and Upholstery

Ser. No. 338,692. FORT PITT BEDDING COMPANY, Pittsburgh, Pa. Filed June 9, 1933.

Airway

For Mattresses.
Claims use since May 16, 1933.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 336,923. ARTHEL (SOCIETE D'EXPLOITATION DES BREVETS JACQUES ARTHUYS), Paris, France. Filed Apr. 19, 1933.

ARTHEL

For Automatic Heliostats and Reflectors Therefor.
Claims use since October, 1932.

Ser. No. 338,027. ANCHOR POST FENCE COMPANY, Baltimore, Md. Filed May 20, 1933.

fluid heat

Applicant is the owner of registration No. 227,374 of May 3, 1927.
For Oil Burners.
Claims use since April, 1926.

CLASS 37

Paper and Stationery

Ser. No. 339,692. THE TEXAS COMPANY, New York, N. Y. Filed July 12, 1933.

TEXACO

For Paper Towels and Paper Napkins.
Claims use since June 21, 1933.

CLASS 38

Prints and Publications

Ser. No. 337,664. ALVA BLACKBURN BREWER, Washington, D. C. Filed May 10, 1933.

Peter Carter *Says:*

For Daily (Except Sunday) Column in a Newspaper.
Claims use since May 3, 1932.

Ser. No. 338,474. FAWCETT PUBLICATIONS, INC., Minneapolis, Minn. Filed May 15, 1933.

Radioland

For Magazine Published Every Month.
Claims use since Apr. 15, 1933.

Ser. No. 339,843. DR. ROBERT WAHL, doing business as Braumeister Publishing Co., Chicago, Ill. Filed July 17, 1933.

AMERICAN BREWERS REVIEW

For Publication Published From Time to Time.
Claims use since 1902.

CLASS 39

Clothing

Ser. No. 328,061. GRAY BROTHERS, INC., Syracuse, N. Y. Filed June 17, 1932.

GRAYFLEX

For Leather Shoes.
Claims use since May 15, 1932.

Ser. No. 331,841. JAYSON'S COATS, INC., New York, N. Y. Filed Oct. 31, 1932.

Silvadown

For Women's and Misses' Coats.
Claims use since Aug. 1, 1932.

Ser. No. 335,258. SOCIETE A RESPONSABILITE LIMITEE RODIER, Paris, France. Filed Feb. 24, 1933.
The drawing is lined for red and black.

RODIER

For Wearing Apparel—Namely, Aprons, Brassières, and Bandeaux; Belts for Outer Wear; Blouses and Bonnets for the Use of Women and Children; Boots and Gloves Made of Leather, Rubber, and Fabric; Capes, Caps, Cloaks, Coats, Hats; Jackets and Mantles for the Use of Men, Women, and Children; Chemises, Collars, Corset Covers, Corsets, Cravats, Cuffs, Drawers, Dresses for the Use of Men, Women, and Children; Fichus, Garters, Hat and Cap Linings, Muffs, Peliases, Pinafores, Sashes, Scarves, Shirt Fronts, Underskirts and Outer Skirts, Trousers for the Use of Men and Boys, Underwear for the Use of Men, Women, and Children.
Claims use since Nov. 3, 1932.

Ser. No. 335,260. SOCIETE A RESPONSABILITE LIMITEE RODIER, Paris, France. Filed Feb. 24, 1933.

PLUMILAP

For Wearing Apparel—Namely, Aprons, Brassières and Bandeaux; Belts for Outer Wear; Blouses and Bonnets for the use of Women and Children; Boots and Gloves Made of Leather, Rubber, and Fabric; Capes, Caps, Cloaks, Coats, Hats; Jackets and Mantles for the Use of Men, Women, and Children; Chemises, Collars, Corset Covers, Corsets, Cravats, Cuffs, Drawers, Dresses, for the Use of Men, Women and Children; Fichus; Garters, Hat and Cap Linings, Muffs, Peliases, Pinafores, Sashes, Scarves, Shirt Fronts, Underskirts and Outerskirts; Trousers for the Use of Men and Boys; Underwear for the Use of Men, Women, and Children.
Claims use since Nov. 3, 1932.

Ser. No. 337,500. BEAR BRAND HOSIERY CO., Kaskakee and Chicago, Ill. Filed May 8, 1933.

MOTORMAN & TRUCKMAN

For Knitted Articles—Namely, Hosiery.
Claims use since Apr. 21, 1933.

Ser. No. 338,522. HARZFELD'S, INC., Kansas City, Mo. Filed June 5, 1933.

HARZ-FLEX

For Children's Shoes Made of Leather, Fabric, and Combinations of Leather and Fabric.
Claims use since Mar. 1, 1933.

Ser. No. 338,523. HARZFELD'S, INC., Kansas City, Mo. Filed June 5, 1933.

PEDI-KINS

For Children's Shoes Made of Leather, Fabric, and Combinations of Leather and Fabric.
Claims use since Mar. 1, 1933.

Ser. No. 338,739. GOTHAM SILK HOSIERY COMPANY, INC., New York, N. Y. Filed June 10, 1933.

GOLD STRIPE

For Underwear and Gloves Made of Fabric.
Claims use since June 2, 1933.

Ser. No. 338,754. THE NEUFORM CO., INC., New York, N. Y. Filed June 10, 1933.

HUGTEX

For Brassières, Girdles, and Combinations, Consisting of Brassière and Girdle.
Claims use since Jan. 1, 1933.

Ser. No. 339,258. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed June 27, 1933.

WOOLAFLEX

For Men's, Women's and Children's Underwear.
Claims use since June 26, 1933.

Ser. No. 339,487. THE ASBURY MILLS, New York, N. Y. Filed July 5, 1933.

Hourglass

For Bathing Suits for Men, Women, and Children; Underwear, Pajamas and Beach Robes, Women's Sweaters, and Knitted Coats and Dresses.
Claims use since Jan. 21, 1933.

Ser. No. 339,568. LITTLE SISTERS COATS INC., New York, N. Y. Filed July 7, 1933.

The words "100% Pure Wool Washable" are disclaimed apart from the mark as shown.
For Children's Coats.
Claims use since Mar. 15, 1932.

Ser. No. 339,607. THE H. D. LEE MERCANTILE CO., Kansas City, Mo. Filed July 10, 1933.

NEW DEAL BY Lee

For Men's and Boys' Work Clothing—Namely, Overalls, Mechanic's Coats and One-Piece Work Shirts.
Claims use since June 15, 1933.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 338,564. THE GLEMBY COMPANY, INC., New York, N. Y. Filed June 6, 1933.

CRYSTALITE

For Combs Not Made of or Containing Precious Metals.
Claims use since Apr. 27, 1933.

Ser. No. 339,285. F. SMILOWITZ & CO., New York, N. Y. Filed June 27, 1933.

SMILANFOX

For Fur Trimmings.
Claims use since May 15, 1932.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 335,257. SOCIÉTÉ À RESPONSABILITÉ LIMITÉE RODIER, Paris, France. Filed Feb. 24, 1933.

RODIER

The drawing is lined for red and black.
For Velvet in the Piece, Cretonne in the Piece, Silk in the Piece, Tulles and Nets in the Piece, Laces in the Piece, and Veils.
Claims use since Nov. 3, 1932.

Ser. No. 335,259. SOCIÉTÉ À RESPONSABILITÉ LIMITÉE RODIER, Paris, France. Filed Feb. 24, 1933.

PLUMILAP

For Velvet in the Piece, Cretonne in the Piece, Silk in the Piece, Tulles and Nets in the Piece, Laces in the Piece, and Veils.
Claims use since Nov. 3, 1932.

Ser. No. 335,425. WILL ROSS, INC., Milwaukee, Wis. Filed Mar. 2, 1933.



For Curtains; Curtain Materials—Namely, Scrim, Marquisette, Sheets, Pillow Cases, Table Cloths, Napkins, Tray Covers, Toweling, Bed Spreads, Scarfing, Textile Bath Mats, Wash Cloths, Face Towels, Bath Towels, Blankets, Drapes, and Drapery Materials—Namely, Mohair and Chintz.
Claims use since Dec. 6, 1932.

Ser. No. 335,508. WILLIAM J. KARSA, doing business as Wm. J. Karsa & Company, New York, N. Y. Filed Mar. 6, 1933.



The representation of the girl appearing on the drawing is fanciful. Applicant disclaims the right to the exclusive use of the expressions "Mastercraft" and "Hand Made Embroidery" except in the particular arrangement and association in which they appear with the rest of the trade-mark as shown on the drawing.
For Doilies, Scarfs, Table Napkins, Table Cloths, Towels, Towel Sets, Pillow-Cases, Chairback Covers, and Bed Spreads.
Claims use since May 15, 1927.

Ser. No. 335,995. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa. Filed Mar. 23, 1933.

VEL-FRIEZE

No claim is made to the exclusive use of the word "Frieze" per se.
For Pile Fabrics in the Piece.
Claims use since Mar. 8, 1933.

Ser. No. 337,289. DORSET WOOLEN COMPANY, Providence, R. I. Filed Apr. 29, 1933.



For Woven Textile Fabrics Made of Cotton or Wool.
Claims use since Fall of 1928.

Ser. No. 337,296. JAMES G. HARDY, doing business as James G. Hardy & Co., New York, N. Y. Filed Apr. 29, 1933.

Priscilla

For Sheets and Pillow Cases.
Claims use since April, 1931.

Ser. No. 337,762. D. I. & C. H. STERN, INCORPORATED, New York, N. Y. Filed May 12, 1933.

Dichelle

For Silk, Cotton, Woolen, Rayon Textile Fabrics and Combinations Thereof.
Claims use since Mar. 21, 1933.

Ser. No. 338,402. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed June 1, 1933.

CELWARP

For Fabrics in the Piece Made Wholly or Partially of Cellulose Derivatives.
Claims use since May 31, 1933.

Ser. No. 338,403. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed June 1, 1933.

WARPCEL

For Fabrics in the Piece Made Wholly or Partially of Cellulose Derivatives.
Claims use since May 31, 1933.

Ser. No. 338,441. WORUMBO MANUFACTURING COMPANY, Lisbon Falls, Maine. Filed June 1, 1933.

CHILIO

For Woolen Fabrics in the Piece.
Claims use since May 24, 1933.

Ser. No. 338,442. WORUMBO MANUFACTURING COMPANY, Lisbon Falls, Me. Filed June 1, 1933.

CHINEELO

For Woolen Fabrics in the Piece.
Claims use since May 24, 1933.

Ser. No. 339,257. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed June 27, 1933.

SPUNBRILLA

For Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since June 26, 1933.

Ser. No. 339,549. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed July 7, 1933.

Ermincrush

For Pile Fabrics in the Piece.
Claims use since June 28, 1933.

CLASS 43

Thread and Yarn

Ser. No. 339,210. STANDARD-COOSA-THATCHER COMPANY, Chattanooga, Tenn. Filed June 24, 1933.

BRAZOS

For Cotton Thread.
Claims use since June 19, 1933.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 338,362. VINCENT J. CURCIO, doing business as V. J. Curcio Company, Jersey City, N. J. Filed May 31, 1933.



For Permanent Waving Machines.
Claims use since Apr. 27, 1931.

Ser. No. 339,486. CUTHBERT ANDREWS, London, England. Filed July 5, 1933.

PROTEXRAY

For X-Ray Tubes for Surgical or Curative Purposes.
Claims use since May 28, 1929.

Ser. No. 330,861. BAKER & COMPANY, INC., Newark, N. J. Filed July 8, 1933.

Aristaloy

For Dental Alloy for Amalgams.
Claims use since June 29, 1933.

Ser. No. 339,766. JULIUS SCHMID, New York, N. Y. Filed July 14, 1933.

MEDALLION

For Prophylactic Rubber and Membraneous Articles for the Prevention of Contagious Diseases.
Claims use since Mar. 6, 1933.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 339,215. NICHOLAS P. VLANNES, Shreveport, La. Filed June 24, 1933.

Vio-Vita

For Non-Alcoholic Maltless Beverage Sold as a Soft Drink.
Claims use since June 23, 1933.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 320,011. SOCIETA ANONIMA LUCCHESE OLII E VINI, Lucca, Italy. Filed Oct. 12, 1931.



For Olive Oil.
Claims use since Mar. 1, 1910.

Ser. No. 321,111. LINDSAY FARM BUREAU FRUIT ASSN., Lindsay, Calif. Filed Nov. 13, 1931.

TRIBUTE



The representation of the orange is disclaimed apart from the mark shown on the drawing.
For Fresh Citrus Fruits.
Claims use since Nov. 1, 1929.

Ser. No. 322,861. PRICE FLAVORING EXTRACT COMPANY, Chicago, Ill. Filed Jan. 9, 1932.

Dr. Price's

Applicant is the owner of Trade-Mark No. 198,923, dated May 26, 1925, effected under the 10-year proviso.
For Flavoring Extracts for Foods.
Claims use since Dec. 31, 1931.

Ser. No. 325,710. THE HAMPTON CRACKER CO., Louisville, Ky. Filed Apr. 1, 1932.

Regal

For Crackers, Biscuits, Cookies, Cookie-Cakes; Marshmallow, Nut, and Other Coated Cookies, and Pretzels.
Claims use since August, 1919.

Ser. No. 326,414. VICTOR M. CALDERON CO., INC., New York, N. Y. Filed Apr. 23, 1932.

The Nobility's Brand

The word "Brand" is disclaimed except in the association shown.
For Canned Fish.
Claims use since Aug. 21, 1931.

Ser. No. 331,421. Y. AOYAMA, doing business as Y. Aoyama Company, Brawley, Calif. Filed Oct. 21, 1932.

HIGH 99 POWER IMPERIAL

For Fresh Vegetables and Melons.
Claims use since June 10, 1932.

Ser. No. 336,063. THE KANSAS FLOUR MILLS CORPORATION, Kansas City, Mo. Filed Mar. 23, 1933.

BIG 7

For Wheat Flour.
Claims use since June 1, 1901.

Ser. No. 336,857. CALUMET TEA & COFFEE COMPANY, Chicago, Ill. Filed Apr. 17, 1933.

ARISTON

For Canned Fruits, Canned Vegetables, Canned Fruits for Salad, Canned Fruit Cocktail, Tea, Coffee, Cocoa, Gelatin Dessert, Hot Chocolate Powder, Flavoring Extracts for Food Purposes, Baking Powder, White Pepper, Olives, Peanut Butter, and Dried Cocoanut.
Claims use since May 1, 1899.

Ser. No. 336,898. B. C. Bates, Little Rock, Ark. Filed Apr. 18, 1933.

VIN-GARL

For Liquid Condiment—Namely, a Garlic Flavored Vinegar.
Claims use since Sept. 1, 1932.

Ser. No. 337,096. HOUSEHOLD PRODUCTS CO., Chicago, Ill. Filed Apr. 20, 1933.

REALM

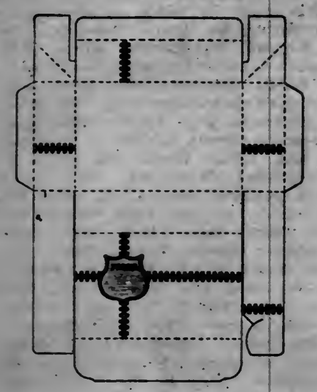
For Canned Fish and Sea Food—Namely, Anchovies, Caviar, Clams, Clam Chowder, Clam Juice, Codfish, Codfish Balls and Cakes, Crabmeat, Fish Balls, Fish Flakes, Herring, Lobster, Mackerel, Oysters, Salmon, Sardines, Shad, Shrimp, Tuna Fish; Canned Fruits—Namely, Apples, Apricots, Blackberries, Blueberries, Cherries, Crabapples, Figs, Fruit for Salads, Gooseberries, Grapefruit, Loganberries, Peaches, Pears, Pineapple, Plums, Raspberries, Rhubard, Strawberries; Olives, Milk, Malted Milk: Soups—Namely, Asparagus, Bean, Beef, Bouillon, Chicken, Celery, Consomme, Mock Turtle, Pea, Tomato, Vegetable, and Vegetable-Beef Soup; Canned Vegetables—Namely, Asparagus, Bean Sprouts, Baked Beans, Beets, Brussel Sprouts, Carrots, Cauliflower, Green Beans, Corn, Hominy, Kale, Kidney Beans, Lima Beans, Red Beans, Mixed Vegetables, Mushrooms, Okra, Onions, Peas, Pimientoes, Pumpkin, Sauer Kraut, Sauer Kraut Juice, Spinach, Squash, Succotash, Sweet Potatoes, Swiss Chard, Tomatoes, Tomato Juice, Tomato Paste, Tomato Puree, Turnip Greens; Cereals—Namely, Barley, Corn Flakes, Cornmeal, Farina, Hominy Grits, Oat Flakes, Oatmeal, Rice Flakes, Rolled Oats, Wheat Biscuit, Wheat Cereal, and Wheat Flakes; Cheese; Cocoa and Chocolate—Namely, Bitter Chocolate, Sweet Chocolate, Cocoa and Cocoanut; Coffee; Condiments—Namely, Barbecue Sauce, Catsup, Chili Sauce, Horseradish, French Dressing, Melon Mangoes, Mint Sauce, Olive Relish, Oyster Cocktail Sauce, Pearl Onions, Pepper Sauce, Prepared Mustard, Tartar Sauce, Thousand Island Dressing, Tobasco Sauce, Vegetable Sauce, Allspice, Celery Salt, Chili Powder, Cinnamon, Curry Powder, Ginger, Mace, Dry Mustard, Black and White Pepper, Red Pepper, Nutmeg, Onion Seasoning, Paprika, Pickling Spice, Poultry Seasoning, Turmeric, Whole Spices, Vinegar, and Worchestershire Sauce; Cooking Oils—Namely, Cooking Oil, Olive Oil, Peanut Oil, and Salad Oil; Dried Fruits—Namely, Apricots, Currants, Dates, Figs, Glace Cherries, Citron Peel, Lemon Peel, Orange Peel, Peaches, Prunes and Raisins; Extracts for Food Purposes—Namely, Flavoring Extracts, Almond Extract, Lemon Extract, Orange Extract, and Vanilla Extract; Wheat Flour, Buckwheat Flour, Cake Flour, Pancake Flour, Wholewheat Flour; Meats—Namely, Bacon, Boned Chicken, Chicken a la King, Bouillon Cubes, Chili Con Carne, Chop Suey, Cooked Brains, Corned Beef, Corn Beef Hash, Dried Beef, Lamb's Tongue, Pigs Feet, Potted Ham, Potted Meats, Sausage, Smoked Meats, Tamales, Tripe, Vienna Sausage; Gelatine, Honey, Macaroni, Noodles, Spaghetti; Nuts and Nut Products—Namely, Almond Meats, Peanuts, Pecan Meats, Walnut Meats; Pickles—Namely, Dill, Mixed, Sour and Sweet Pickles; Jellies and Preserves—Namely, Apple Butter, Apple Sauce, Cranberry Marmalade, Peach Butter, Apple Jelly, Blackberry, Currant, Grape, Raspberry, and Strawberry Jellies, Blackberry Preserves, Cherry, Peach, Pineapple, Plum, Raspberry, and Strawberry Preserves, Sugar, Syrup and Molasses—Namely, Corn Syrup, Maple Syrup, Molasses, Sorghum; Tea—Namely, Black, Green, Mixed and Orange Pekoe Tea; Butter, Candy, Chewing Gum, Icings, Jelly Powder, Junket Tablets, Lard, Maraschino Cherries, Marshmallows and Marshmallow Cream, Nut Margarine, Oleomargarine, Peanut Butter, Unpopped Pop Corn, Potato Chips, Rice, Scratch Feed, and Tapioca.
Claims use since Nov. 23, 1932.

Ser. No. 337,606. WEST BRANCH FLOUR MANUFACTURING CO., West Branch, Mich. Filed Apr. 21, 1933.

SCENIC ROUTE

For Pancake Flour.
Claims use since July 1, 1932.

Ser. No. 337,893. STAHL-MEYER, INC., New York, N. Y. Filed May 16, 1933.



The lining on the drawing represents the colors blue and gold, the gold encircling the blue.
For Fine Pork Sausage.
Claims use since November, 1932.

Ser. No. 338,033. CALIFORNIA PRUNE & APRICOT GROWERS ASSOCIATION, San Jose, Calif. Filed May 20, 1933.

SUNSWEET

For Fruit Juices Used for Food Purposes, Fruit Syrups Used in Preparation of Foods and Beverages for Food Purposes, Crushed Fruits Used in Preparation of Foods.
Claims use since Nov. 15, 1932; Jan. 15, 1933; Nov. 15, 1932, respectively.

Ser. No. 338,052. F. J. KOLB CHEESE CO., Lena, Ill. Filed May 20, 1933.



The lining on the drawing is for shading purposes only, no particular color being intended to be indicated or shown thereby.
For Cheese.
Claims use since Sept. 14, 1931.

Ser. No. 338,370. HAWAIIAN PINEAPPLE COMPANY, LTD., Honolulu, Hawaii, and San Francisco, Calif. Filed May 31, 1933.



The drawing is lined for red, blue, and yellow, but color is disclaimed.
For Canned Pineapple Juice for Food Purposes.
Claims use since Apr. 7, 1933.

Ser. No. 338,469. A. E. STARKIN COMPANY, Chicago, Ill. Filed June 2, 1933.

KREEMY FREEZE

Applicant disclaims the use of any particular color for the trade-marks, and also the use of the word Kreemy apart from the mark as shown in the drawing.
For Ingredients to be Added to Milk for Making Frosen Confections.
Claims use since Oct. 26, 1932.

Ser. No. 338,493. THE HERKIN COMPANY, Cincinnati, Ohio. Filed June 3, 1933.

PERC-O-DRIP

No claim is made to the word "Drip" apart from the mark as shown in the drawing.
For Ground Coffee.
Claims use since May 25, 1933.

Ser. No. 338,514. B. A. ECKHART MILLING CO., Chicago, Ill. Filed June 5, 1933.

DIA-AID

The drawing is lined for shading. The words "Bake Control" are disclaimed apart from the mark as shown.
For Wheat Flour.
Claims use since Oct. 1, 1932.

Ser. No. 338,524. WALTER H. JOHNSON CANDY CO., Chicago, Ill. Filed June 5, 1933.



The illustrations of the man and the boy are fanciful.
For Candy.
Claims use since May 1, 1933.

Ser. No. 338,538. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio. Filed June 5, 1933.

HIGH RATIO

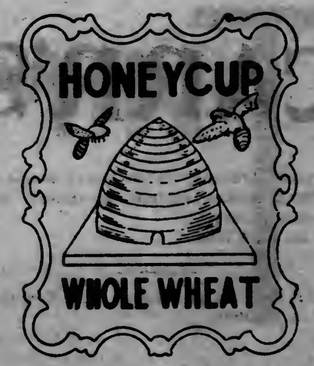
For Vegetable Shortening of Semi-Solid Form.
Claims use since May 18, 1933.

Ser. No. 338,752. THE NATIONAL SUGAR REFINING COMPANY OF NEW JERSEY, Jersey City, N. J., and New York, N. Y. Filed June 10, 1933.

NATIONAL
WHITE
FROST
SUGAR

All wording shown in the drawing with the exception of the words "National White Frost" is disclaimed apart from the mark as shown.
For Sugar.
Claims use since Feb. 25, 1933.

Ser. No. 338,778. GORDON BAKING COMPANY, Detroit, Mich. Filed June 12, 1933.



The words "Whole Wheat," except in the association shown, are disclaimed.
For Whole Wheat Bread.
Claims use since June 1, 1933.

Ser. No. 338,844. OSEN MILLING COMPANY, De Pere, Wis. Filed June 14, 1933.

AYWON A-1

No claim is made to the name "A-1" apart from the mark shown in the drawing.
For Dairy Feed, Chick Mash, Scratch Feed, Chick Feed, Developing Feed, Growing Mash, and Chick Starter.
Claims use since Dec. 27, 1932.

Ser. No. 338,930. GWINN BROS. & CO., Huntington, W. Va. Filed June 17, 1933.



The drawing is lined for blue. No claim is made to the word "Flour."
For Wheat Flour.
Claims use since June 10, 1933.

Ser. No. 339,061. J. B. CARR BISCUIT COMPANY, Wilkes-Barre, Pa. Filed June 21, 1933. Under 10-year proviso.

CARR'S

For Crackers, Biscuits, Wafers, Cakes, Salted Crackers, Cracker Meal, Cookies, Pretzels, Shortbread, Macaroons, and Chocolate Éclairs.
Claims use since 1880.

Ser. No. 339,158. MEYER & LANGE, INC., New York, N. Y. Filed June 23, 1933.



The words "Mustard for Men" are hereby disclaimed.
For Prepared Mustard.
Claims use since Apr. 27, 1933.

Ser. No. 339,174. ALLIED BRANDS, INC., New York, N. Y. Filed June 24, 1933.

Andy's

FRENCH FRIED

No claim is made to the words "French Fried" apart from the trade-mark as shown in the drawing.
For Shelled Peanuts.
Claims use since Apr. 20, 1933.

Ser. No. 339,251. DOMENICO CASO, Newman, Calif. Filed June 27, 1933.



The right to the exclusive use of the words "Monterey", "Whole Milk", and "Fac. 324" is disclaimed apart from the mark as shown.
For Cheese.
Claims use since May 15, 1933.

Ser. No. 339,263. EDUCATOR BISCUIT COMPANY, Chicago, Ill. Filed June 27, 1933.



The lining in the drawing indicates shading only.
For Crackers and Biscuits.
Claims use since June 15, 1933.

Ser. No. 339,305. PHILIP R. GLUCKSTERN, doing business as Gluckstern's Pure Food Products Company, Brooklyn, N. Y. Filed June 28, 1933.
For Soup Croutons.

SOUP CRISPS

Claims use since Apr. 20, 1933.

Ser. No. 339,385. BLUE MOON CHEESE PRODUCTS, INC., Minneapolis, Minn. Filed June 30, 1933.

Camembrie

For Cheese Spreads.
Claims use since Apr. 27, 1933.

Ser. No. 339,387. DELTA CANNERIES, INC., Stockton, Calif. Filed June 30, 1933.

Something Different!

For Canned Pork and Beans, Canned Fruits, Canned Vegetables.
Claims use since Mar. 1, 1928.

Ser. No. 339,420. H. C. WORTHINGTON, Imperial, Calif. Filed June 30, 1933.

TAKE-OFF

For Fresh Citrus Fruits, Fresh Deciduous Fruits, Fresh Vegetables, Melons.
Claims use since June 8, 1933.

Ser. No. 339,461. THE JUSTRITE COMPANY, Milwaukee, Wis. Filed July 3, 1933.



The drawing is shaded for the colors black and yellow. No claim is made to the word "Justrite" for registration purposes apart from the mark as shown in the drawing.
For Pet Foods—Namely, Dog Biscuits, Mixed Bird Seeds, Parrot Food, Love Bird or Parrakeet Seed, Imported Bird Seed, Egg and Nestling Food Containing Cod Liver Oil, Cuttlebone, Vitamin Health Food with Cod Liver Oil, Flake Charcoal, Color and Pepper Food, Moulting Food, Crushed Oyster Shells, Song Restorer, Honey Rolls, Turtle Food Containing Ant Eggs, Water Fish Food, Tropical Fish Food, Shrimp Fish Food, and Natural Fish Food, Also Cat Foods, Kibbled Dog Biscuits.
Claims use since April, 1927.

Ser. No. 339,520. RON S. FREEMAN, doing business as Min-T Company, Atlanta, Ga. Filed July 6, 1933.

MIN-T

For Flavored Tea.
Claims use since Jan. 9, 1933.

Ser. No. 339,570. PLANTERS EDIBLE OIL COMPANY, Suffolk, Va. Filed July 7, 1933.

NOVOLA

For Cooking and Salad Oil.
Claims use since October, 1932.

Ser. No. 339,575. OTTO SEIDNER, INCORPORATED, doing business as Mar-Vel-Us Foods, Westerly, R. I. Filed July 7, 1933.

MAR-VEL-US

For Salad Dressing.
Claims use since Mar. 1, 1932.

Ser. No. 339,589. BEATRICE LUCILLE SCOTLAND, doing business as Major Foods, Joliet, Ill. Filed July 8, 1933.

Jellum

MAKES YOUR JELLY SURE

No claim is made to the words "Makes Your Jelly Sure" apart from the mark as shown in the drawing.
For Prepared Fruit Pectin.
Claims use since Apr. 29, 1933.

Ser. No. 339,061. S. ALBERTSON CO. INC., Boston, Mass. Filed July 12, 1933.

Babijuice

For Oranges.
Claims use since Oct. 5, 1932.

CLASS 47

Wines

Ser. No. 334,698. ALFRED ZWEIFEL, MALAGA-KELLEREIEN A. G., Lenzburg, Switzerland. Filed Feb. 6, 1933.



No claim is made to the words "Marca Registrada."
For Wine.
Claims use since Apr. 19, 1910.

Ser. No. 339,366. ALFRED PRIEUR, doing business as Ch. & A. Prieur, Vertus, France. Filed June 29, 1933.



No claim is made to the words: "Grand Champagne," "Vertus (pres Epernay)", and "France".
For Wines and Champagne.
Claims use since 1907.

Ser. No. 339,781. ETABLISSEMENTS LÉON BIGAULT SOCIÉTÉ ANONYME, Beaune, France. Filed July 15, 1933.

Burkenblut

For Wines of All Kinds.
Claims use since April, 1925.

Ser. No. 339,814. BATTISTA CELLA, doing business as Roma Wine Company, Lodi, Calif. Filed July 17, 1933.

La Bohème

For Wines.
Claims use since June 28, 1933.

Ser. No. 339,898. THE GUGGENHEIM CO., INC., Washington, D. C. Filed July 19, 1933.

To-Kalon

For Wines with the Legal Alcoholic Content.
Claims use since July 6, 1933.

CLASS 48

Malt Beverages and Liquors

Ser. No. 337,086. NUEVA FABRICA DE HIELO, S. A., Habana, Cuba. Filed Apr. 22, 1933.



No claim is made to the words "Cerveza," "Cristal," "Cerveceria," and "Marca Registrada."
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Apr. 8, 1933.

Ser. No. 339,017. AMERICAN BREWERY, INCORPORATED, Baltimore, Md. Filed June 30, 1933.



The drawing is lined for the colors red, blue, and gold; the color scheme being an essential feature of the mark.
Without waiving any rights under other statutes, at common law, or in foreign countries, applicant disclaims any right to the exclusive use of the word "American" except in the setting and relation in which it appears herein.
For Malt Beverages of Not More Than Legal Alcoholic Content.
Claims use since May 9, 1933.

Ser. No. 339,259. THE CLASS & NACHOD BREWING COMPANY, Philadelphia, Pa. Filed June 27, 1933.

Black Eagle

For Malt Beverage of Not More Than the Legal Alcoholic Content.
Claims use since Apr. 7, 1933.

Ser. No. 339,260. THE CLASS & NACHOD BREWING COMPANY, Philadelphia, Pa. Filed June 27, 1933.

Southern Star

For Malt Beverage of Not More Than the Legal Alcoholic Content.
Claims use since May 31, 1933.

Ser. No. 339,336. CHARLES W. ALMSTEAD, Dallas, Tex. Filed June 27, 1933.



The drawing is lined for blue, red and yellow. No claim is made to the notation "4% Beer by Volume."
For Beer and Malt and Hop Beverages.
Claims use since May 15, 1933.

Ser. No. 339,462. KEELEY BREWING COMPANY, Chicago, Ill. Filed July 3, 1933.

Blue Bell

For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since June 18, 1909.

Ser. No. 339,463. KEELEY BREWING COMPANY, Chicago, Ill. Filed July 3, 1933.



The drawing is lined for green and red. No claim is made to the words "Barley Stout" apart from the mark as shown.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since 1902.

Ser. No. 339,510. VAN VOLLENHOVEN'S BIERBROUWERIJ N. V., Amsterdam, Netherlands. Filed July 5, 1933.



No claim is made to the wording or notations "Brewery, Beer, Amsterdam, Produce of Holland, Trade Mark, Gold Medal, Paris, 1889," except in the precise relation and association in which the same appear herein.
For Malt Beverages of Not More Than Legal Alcoholic Content.
Claims use since 1733.

Ser. No. 339,564. KEELEY BREWING COMPANY, Chicago, Ill. Filed July 7, 1933.



The drawing is lined for red and buff. No claim is made to the words "Old Country Process" and "Ale" apart from the mark as shown.

For Malt Beverages with Not More Than the Legal Alcoholic Content.

Claims use since 1902.

Ser. No. 339,653. WEISBROD & HESS BREWING COMPANY, Philadelphia, Pa. Filed July 11, 1933.

Rheingold

For Beer of the Legalized Alcoholic Content.

Claims use since Dec. 4, 1882.

Ser. No. 339,654. WEISBROD & HESS BREWING COMPANY, Philadelphia, Pa. Filed July 11, 1933.

Shakespeare

For Malt Beverages with Not More Than the Legal Alcoholic Content.

Claims use since Mar. 1, 1897.

Ser. No. 339,655. THE WEST END BREWING CO., Utica, N. Y. Filed July 11, 1933. Under 10-year proviso.

THE FAMOUS UTICA BEER

For Malt Beverages with Not More Than the Legal Alcoholic Content.

Claims use since 1890.

Ser. No. 339,714. THE FITGER COMPANY, Duluth, Minn. Filed July 13, 1933.



For Malt Beverages with Not More Than the Legal Alcoholic Content.

Claims use since Aug. 5, 1902.

Ser. No. 339,791. RITZ BREWING COMPANY, San Diego, Calif. Filed July 15, 1933.

BALBOA

For Malt Cereal Beverage Having Not Over the Legal Alcoholic Content.

Claims use since June 12, 1933.

Ser. No. 339,792. RITZ BREWING COMPANY, San Diego, Calif. Filed July 15, 1933.

CORONADO

For Malt Cereal Beverage Having Not Over the Legal Alcoholic Content.

Claims use since June 12, 1933.

Ser. No. 339,793. RITZ BREWING COMPANY, San Diego, Calif. Filed July 15, 1933.

PALOMAR

For Malt Cereal Beverage Having Not Over the Legal Alcoholic Content.

Claims use since June 12, 1933.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 339,880. THE SHERWOOD DISTILLING & DISTRIBUTING CO., Baltimore, Md. Filed July 18, 1933.



No claim is made to the word "Gin" apart from the mark shown on the drawing.

For Gin.

Claims use since May 15, 1933.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 334,662. AMERICAN RACING PIGEON UNION, Jersey City, N. J. Filed Feb. 6, 1933.

AU

For Bands to be Placed Upon the Legs of Pigeons for Identification Purposes.

Claims use since Jan. 2, 1928.

Ser. No. 336,735. ABE SHNIDERMAN, doing business as Flav-Oak Manufacturing Company, Kansas City, Mo. Filed Apr. 13, 1933.

FLAV-OAK

The word "Oak" is disclaimed apart from the mark as shown on the drawing.

For Charred Chips for Coloring and Flavoring Liquids.

Claims use since Nov. 1, 1931.

Ser. No. 338,250. S. H. KRESS & Co., New York, N. Y. Filed May 26, 1933.

Baby Dot

For Rubber Crib Sheets.

Claims use since Feb. 1, 1933.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 22, 1933

305,522. BOOTS AND SHOES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. SAWYER SYSTEM, INC., Lynn, Mass.
Filed March 10, 1931. Serial No. 311,981. PUBLISHED JUNE 13, 1933. Class 39.

305,523. DISTILLED LIQUORS. GAUTIER FRERES, Aigre, France.
Filed April 10, 1933. Serial No. 336,608. PUBLISHED MAY 23, 1933. Class 49.

305,524. PHARMACEUTICAL PREPARATION AND DECONGESTANT FOR THE ALLEVIATION OF CONGESTION OF THE UPPER RESPIRATORY TRACT. LEDERLE LABORATORIES, INC., New York, N. Y.
Filed April 15, 1933. Serial No. 336,829. PUBLISHED JUNE 13, 1933. Class 6.

305,525. CANDY BOX PADDING PAPER. GEORGE H. SWEETNAM INC., Cambridge, Mass.
Filed April 15, 1933. Serial No. 336,843. PUBLISHED JUNE 6, 1933. Class 37.

305,526. DOG FOOD. ATLANTIC COAST FISHERIES CORPORATION OF NEW YORK, New York, N. Y.
Filed April 17, 1933. Serial No. 336,851. PUBLISHED June 6, 1933. Class 46.

305,527. TRAILERS, BOTH PASSENGER-CARRYING AND COMMERCIAL. CURTISS AEROCAR COMPANY, INC., Opalocka, Fla.
Filed April 15, 1933. Serial No. 336,819. PUBLISHED JUNE 13, 1933. Class 19.

305,528. ANALGESIC PREPARATION RECOMMENDED FOR THE RELIEF OF PAIN, HEADACHES, NEURALGIA, MUSCULAR ACHES AND PAINS, DENTAL PAINS, AND SIMILAR CONDITIONS. HOFFMANN-LA ROCHE, INC., Nutley, N. J.
Filed April 15, 1933. Serial No. 336,827. PUBLISHED JUNE 13, 1933. Class 6.

305,529. SAFETY GAS VENTS FOR BRICK FURNACES. FIRMIN PROVINCIAL, Woonsocket, R. I.
Filed April 19, 1933. Serial No. 336,939. PUBLISHED JUNE 13, 1933. Class 34.

305,530. COLLARS, DRESS, NEGLIGEE, AND WORK SHIRTS, AND WINDBREAKERS. H. D. BOB COMPANY, INC., New York, N. Y.
Filed April 15, 1933. Serial No. 336,815. PUBLISHED MAY 30, 1933. Class 39.

305,531. READY MIXED PAINTS, PASTE PAINTS, DRY PAINTS, PAINT FILLERS, PAINT SURFACERS, PAINT STAINS, LACQUERS, PAINT AND PYROXYLIN ENAMELS, PAINTERS' COATINGS, PAINTERS' UNDERCOATINGS, PAINTERS' FINISHES, VARNISH, PAINT THINNERS, JAPANS, AND PAINT DRY COLORS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed April 19, 1933. Serial No. 336,934. PUBLISHED JUNE 6, 1933. Class 16.

305,532. SHOE SOLES FORMED OF RUBBER OR RUBBER COMPOSITIONS. ESSEX RUBBER COMPANY, Trenton, N. J.
Filed April 19, 1933. Serial No. 336,938. PUBLISHED JUNE 13, 1933. Class 39.

305,533. BEER. LOUIS ZIEGLER BREWING COMPANY, Beaver Dam, Wis.
Filed April 17, 1933. Serial No. 336,894. PUBLISHED JUNE 6, 1933. Class 48.

305,534. WINDOW CLEANERS OF THE SQUEEGEE TYPE AND PARTS THEREOF—NAMELY, HANDLE SOCKETS, RUBBER WIPERS AND FRAMES THEREFOR. GREENVIEW MANUFACTURING COMPANY, Chicago, Ill.
Filed April 18, 1933. Serial No. 336,903. PUBLISHED JUNE 13, 1933. Class 29.

305,535. BEER. LOUIS ZIEGLER BREWING COMPANY, Beaver Dam, Wis.
Filed April 17, 1933. Serial No. 336,893. PUBLISHED JUNE 6, 1933. Class 48.

305,536. WAX FOR COATING AND POLISHING WOOD, METAL AND OTHER SURFACES AND LACQUER. S. C. JOHNSON & SON, INC., Racine, Wis.
Filed April 17, 1933. Serial No. 336,872. PUBLISHED JUNE 6, 1933. Class 16.

305,537. BEER. LOUIS ZIEGLER BREWING COMPANY, Beaver Dam, Wis.
Filed April 17, 1933. Serial No. 336,892. PUBLISHED JUNE 6, 1933. Class 48.

305,538. NON-POISONOUS IODINE SOLUTION. BERLIN IRC., New York, N. Y.
Filed April 12, 1933. Serial No. 336,669. PUBLISHED JUNE 13, 1933. Class 6.

305,539. AMMONIA AND BLUING. GRIGGS, COOPER & Co., doing business as Sanitary Food Mfg. Co., St. Paul, Minn.
Filed April 12, 1933. Serial No. 336,677. PUBLISHED JUNE 13, 1933. Class 6.

305,540. DRESSES, UNDERWEAR, WAISTS, PAJAMAS, FOR WOMEN AND CHILDREN; DRESS, NEGLIGEE, AND WORK SHIRTS, AND UNDERWEAR FOR MEN AND BOYS, INCLUDING UNDERSHIRTS, UNDERDRAWERS, ATHLETIC SHIRTS AND SHORTS. N. FLUGELMAN & CO., INC., New York, N. Y.
Filed April 11, 1933. Serial No. 336,642. PUBLISHED MAY 30, 1933. Class 39.

305,541. FOUNDATION GARMENTS. HER MAJESTY CORSET COMPANY, INCORPORATED, New Haven, Conn.
Filed April 11, 1933. Serial No. 336,647. PUBLISHED JUNE 6, 1933. Class 39.

305,542. CHILDREN'S DRESSES AND TOP COATS. JOSEPH LOVE, INC., New York, N. Y.
Filed April 11, 1933. Serial No. 336,654. PUBLISHED MAY 30, 1933. Class 39.

305,543. TOILET PREPARATIONS—NAMELY, FACIAL CREAM, FACIAL POWDER, CLEANSING CREAM, COLD CREAM, TISSUE CREAM, ALMOND-ROSE CREAM, FACIAL FRESHENER, BLACKHEAD LOTION, SKIN TONIC AND ASTRINGENT, LILAC VEGETAL, LARGE PORE LOTION, WAVE-SETTING LOTION, BRILLIANTINE HAIR GLOSS, AFTER SHAVING LOTION, SKIN BALM, LIPSTICKS, AND EAU DE QUININE. JOHN H. WOODBURY, INC., Cincinnati, Ohio.
Filed April 10, 1933. Serial No. 336,631. PUBLISHED JUNE 13, 1933. Class 6.

305,544. PICTURES, ILLUSTRATIONS, DISPLAY CARDS, GREETING CARDS, AND BOOKLETS AND POSTERS. MERIDEN GRAVURE CO., Meriden, Conn.
Filed January 4, 1933. Serial No. 333,637. PUBLISHED JUNE 6, 1933. Class 38.

305,545. AN ANTISEPTIC AND GERMICIDE. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed April 10, 1933. Serial No. 336,622. PUBLISHED JUNE 13, 1933. Class 6.

305,546. TOILET PREPARATIONS—NAMELY, FACIAL CREAM, FACIAL POWDER, CLEANSING CREAM, COLD CREAM, TISSUE CREAM, ALMOND-ROSE CREAM, FACIAL FRESHENER, BLACKHEAD LOTION, SKIN TONIC AND ASTRINGENT, LILAC VEGETAL, LARGE PORE LOTION, WAVE SETTING LOTION, BRILLIANTINE, HAIR GLOSS, AFTER SHAVING LOTION, SKIN BALM, AND LIPSTICKS. JOHN H. WOODBURY, INC., Cincinnati, Ohio.
Filed April 10, 1933. Serial No. 336,630. PUBLISHED JUNE 13, 1933. Class 6.

305,547. FACE POWDER, CLEANSING CREAM, COLD CREAM, FOUNDATION CREME, SKIN AND TISSUE CREAM, ASTRINGENT, AND ROUGE. THE ARMAND COMPANY, Des Moines, Iowa.
Filed March 25, 1932. Serial No. 325,458. PUBLISHED JUNE 6, 1933. Class 6.

305,548. LEATHER SHOES, LADIES' UNION SUITS, HOUSE DRESSES, MEN'S DRESS SHIRTS, FABRIC GLOVES, GARTERS, AND WOMEN'S HATS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 8, 1933. Serial No. 335,490. PUBLISHED MAY 30, 1933. Class 39.

305,549. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed March 6, 1933. Serial No. 335,495. PUBLISHED MAY 9, 1933. Class 42.

305,550. LADIES' HATS. WALTER K. MARKS, New York, N. Y.
Filed March 9, 1933. Serial No. 335,565. PUBLISHED MAY 16, 1933. Class 39.

305,551. PREPARATIONS FOR THE TREATMENT OF THE HAIR. ALLAN F. FODERINGHAM, doing business as La Fodham's Products Co., Brooklyn, N. Y.
Filed April 14, 1933. Serial No. 336,760. PUBLISHED JUNE 13, 1933. Class 6.

305,552. GIRLS', JUNIORS', LADIES' AND MISSES' DRESSES. S. SHAPIRO CO. INC., New York, N. Y.
Filed April 14, 1933. Serial No. 336,788. PUBLISHED JUNE 6, 1933. Class 39.

305,553. COTTON PIECE GOODS. MOSES LEO GITELSON, doing business as Nehemiah Gitelson & Sons, New York, N. Y.
Filed March 11, 1933. Serial No. 335,593. PUBLISHED MAY 16, 1933. Class 42.

305,554. INFANTS' AND CHILDREN'S PAJAMAS. ALFRED E. SAUTER, doing business as Sauter Brothers, New York, N. Y.
Filed March 11, 1933. Serial No. 335,599. PUBLISHED MAY 23, 1933. Class 39.

305,555. STEP-IN GIRDLES. LEWEL MFG. CO. INC., New York, N. Y.
Filed April 12, 1933. Serial No. 336,685. PUBLISHED JUNE 13, 1933. Class 39.

305,556. GERMICIDAL AND ANTISEPTIC PREPARATION TO BE APPLIED TO THE SKIN EITHER BEFORE OR AFTER SHAVING AND FOR USE IN TREATING CHAPPED FACE AND HANDS, CUTS, SORES, BURNS, SUNBURN, AND INSECT BITES. HARRY J. BLOCK, Ellensburg, Wash.
Filed April 11, 1933. Serial No. 336,701. PUBLISHED JUNE 13, 1933. Class 6.

305,557. PILE FABRICS, INCLUDING CORDUROYS AND PLUSHES. CROMPTON-RICHMOND COMPANY, INC., New York, N. Y.
Filed March 1, 1933. Serial No. 336,744. Class 42.

305,558. QUARTERLY PUBLICATION. HUGO GERNSBACK, New York, N. Y.
Filed April 26, 1933. Serial No. 337,186. PUBLISHED JUNE 6, 1933. Class 38.

305,559. MONTHLY MAGAZINE. THE AMERICAN OIL CHEMISTS' SOCIETY, New Orleans, La., and Chicago, Ill.
Filed April 27, 1933. Serial No. 337,208. PUBLISHED JUNE 6, 1933. Class 38.

305,560. BEER WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. ADAM SCHEIDT BREWING COMPANY, Norristown, Pa.
Filed April 25, 1933. Serial No. 337,171. PUBLISHED JUN E6, 1933. Class 48.

305,561. BEER WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. ADAM SCHEIDT BREWING COMPANY, Norristown, Pa.
Filed April 25, 1933. Serial No. 337,172. PUBLISHED JUNE 6, 1933. Class 48.

305,562. WINES. MISSION DRY CORPORATION, LTD., Los Angeles, Calif.
Filed April 24, 1933. Serial No. 337,183. PUBLISHED JUNE 13, 1933. Class 47.

305,563. COMPOSITION PANEL BOARD. THE RICHARDSON COMPANY, Lockland, Ohio.
Filed April 25, 1933. Serial No. 337,170. PUBLISHED JUNE 13, 1933. Class 12.

305,564. MONTHLY MAGAZINE. MACNAIR-DORLAND COMPANY, New York, N. Y.
Filed April 24, 1933. Serial No. 337,124. PUBLISHED JUNE 13, 1933. Class 38.

305,565. WINES. MISSION DRY CORPORATION, LTD., Los Angeles, Calif.
Filed April 24, 1933. Serial No. 337,131. PUBLISHED JUNE 13, 1933. Class 47.

305,566. POLISHING WAX, FLOOR WAX. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif.
Filed April 22, 1933. Serial No. 337,094. PUBLISHED JUNE 6, 1933. Class 16.

305,567. YARNS OF WOOL, WORSTED, OR HAIR. PATONS & BALDWINS, LIMITED, Halifax, England.
Filed April 20, 1933. Serial No. 337,102. PUBLISHED JUNE 6, 1933. Class 48.

305,568. LEAD PENCILS. BLAISDELL PENCIL COMPANY, Philadelphia, Pa.
Filed April 21, 1933. Serial No. 337,011. PUBLISHED JUNE 13, 1933. Class 37.

305,569. SWIMMING TRUNKS. OLYMPIA KNITTING MILLS, INC., Olympia, Wash.
Filed April 22, 1933. Serial No. 337,088. PUBLISHED JUNE 6, 1933. Class 39.

305,570. PERIODICAL. MCQUIDDY PRINTING CO., Nashville, Tenn.
Filed April 22, 1933. Serial No. 337,076. PUBLISHED JUNE 13, 1933. Class 38.

305,571. PUZZLE DRAWING BOOKS. THE BALTIMORE SALESBOOK COMPANY, Baltimore, Md.
Filed April 22, 1933. Serial No. 337,064. PUBLISHED JUNE 6, 1933. Class 22.

305,572. WINES. GEO. BENZ & SONS, St. Paul, Minn.
Filed May 2, 1933. Serial No. 337,381. PUBLISHED JUNE 6, 1933. Class 47.

305,573. MEN'S COATS. JOHN DAVID, New York, N. Y.
Filed May 2, 1933. Serial No. 337,385. PUBLISHED JUNE 6, 1933. Class 39.

305,574. GIN AND WHISKEY. UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada.
Filed May 1, 1933. Serial No. 337,373. PUBLISHED JUNE 6, 1933. Class 49.

305,575. GIN AND WHISKEY. UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada.
Filed May 1, 1933. Serial No. 337,374. PUBLISHED JUNE 6, 1933. Class 49.

305,576. WHISKEY AND GIN. UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada.
Filed May 1, 1933. Serial No. 337,368. PUBLISHED JUNE 6, 1933. Class 49.

305,577. WHISKEY AND GIN. UNITED DISTILLERS LIMITED. Vancouver, British Columbia, Canada.
Filed May 1, 1933. Serial No. 337,372. PUBLISHED JUNE 6, 1933. Class 49.

305,578. LAUNDRY WASHING MACHINES. ONE MINUTE WASHER COMPANY, doing business as Newton Washer Co., Newton, Iowa.
Filed May 1, 1933. Serial No. 337,350. PUBLISHED JUNE 13, 1933. Class 24.

305,579. WHISKEY AND GIN. UNITED DISTILLERS LIMITED, Vancouver, British Columbia, Canada.
Filed May 1, 1933. Serial No. 337,367. PUBLISHED JUNE 6, 1933. Class 49.

305,580. TOILET PAPER, PAPER TOWELS, AND PAPER NAPKINS. WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H.
Filed April 29, 1933. Serial No. 337,320. PUBLISHED JUNE 13, 1933. Class 37.

305,581. BEER. GUNTHER BREWING CO., INC., Baltimore, Md.
Filed May 1, 1933. Serial No. 337,335. PUBLISHED JUNE 6, 1933. Class 48.

305,582. BATHROOM TISSUE PAPER. NORTH END PAPER CO., Fulton, N. Y.
Filed April 29, 1933. Serial No. 337,307. PUBLISHED JUNE 6, 1933. Class 37.

305,583. COGNAC BRANDY. PELLISSON PERE & CIE., Cognac, France.
Filed April 29, 1933. Serial No. 337,306. PUBLISHED JUNE 6, 1933. Class 49.

305,584. COLUMN PERTAINING TO THE WEATHER FOR PERIODICAL PUBLICATIONS. CHARLES STEVENS PARTRIDGE, New York, N. Y.
Filed April 28, 1933. Serial No. 337,265. PUBLISHED JUNE 6, 1933. Class 38.

305,585. INK USED ON METAL DIE FOR MARKING HOSIERY AND OTHER TEXTILES. KAUMAGRAPH COMPANY, New York, N. Y.
Filed April 29, 1933. Serial No. 337,300. PUBLISHED JUNE 6, 1933. Class 11.

305,586. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, DRINKING WATER, AND GINGER ALE. JUSTIN F. WAIT, New York, N. Y.
Filed April 27, 1933. Serial No. 337,241. PUBLISHED JUNE 13, 1933. Class 45.

305,587. CHAMPAGNE. JOSEPH DELLA MONICA, Brooklyn, N. Y.
Filed April 28, 1933. Serial No. 337,263. PUBLISHED JUNE 6, 1933. Class 47.

305,588. CANDIES—NAMELY, CHOCOLATES. S. H. KRESS & Co., New York, N. Y.
Filed August 26, 1932. Serial No. 329,861. PUBLISHED JUNE 6, 1933. Class 46.

305,589. BUCKLES FOR WOMEN'S MILLINERY, DRESSES, AND SHOES MADE OF NON-PRECIOUS METAL. THE RIKER COMPANY, Newark, N. J.
Filed September 7, 1932. Serial No. 330,166. PUBLISHED MAY 16, 1933. Class 40.

305,590. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS, MADE WHOLLY OR IN PART OF LEATHER, RUBBER, CANVAS, OR TEXTILE MATERIALS. CLAUDE H. DANIELS, Boston, Mass.
Filed August 12, 1932. Serial No. 329,503. PUBLISHED MAY 30, 1933. Class 39.

305,591. THREADS, YARNS, AND NOVELTY YARNS, COMPOSED OF WORSTED, WOOL, COTTON, SILK, RAYON, OR A COMBINATION OF SUCH TEXTURES. THE NATIONAL SILK CO., INC., South Coventry, Conn.
Filed August 18, 1932. Serial No. 329,645. PUBLISHED MAY 23, 1933. Class 43.

305,592. SUITS, TROUSERS, COATS, VESTS, ETC. BOND STORES, INCORPORATED, New York, N. Y.
Filed August 20, 1932. Serial No. 329,701. PUBLISHED APRIL 11, 1933. Class 39.

305,593. GARMENTS—NAMELY, UNIFORMS, ONE-PIECE SUITS, CAPS, SHIRTS, COATS, AND OVERALLS FOR ATTENDANTS FOR TIRE REPAIR STATIONS, GASOLINE STATIONS, AND GARAGES. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed August 2, 1932. Serial No. 329,284. PUBLISHED MAY 30, 1933. Class 39.

305,594. CAPS TO BE USED IN SETTING WAVES IN HAIR. LEO A. SCHWARTZ, doing business as Magicap Manufacturing Company, Cleveland, Ohio.
Filed August 2, 1932. Serial No. 329,294. PUBLISHED MAY 23, 1933. Class 40.

305,595. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS, MADE WHOLLY OR IN PART OF LEATHER, RUBBER, CANVAS, OR TEXTILE MATERIALS. CLAUDE H. DANIELS, Boston, Mass.
Filed August 12, 1932. Serial No. 329,502. PUBLISHED MAY 30, 1933. Class 39.

305,596. MAGAZINE PUBLISHED MONTHLY. YOUNG MEN'S MUTUAL IMPROVEMENT ASSOCIATION CORPORATION OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS, Salt Lake City, Utah.
Filed July 12, 1932. Serial No. 328,745. PUBLISHED JUNE 6, 1933. Class 38.

305,597. COTTON PIECE GOODS SUITABLE FOR USE AS CURTAINS, OVERDRAPES, AND FURNITURE COVERING. WILLIAM J. STUERS, New York, N. Y., assignor to Niehues & Du ting, Nordhorn, Germany, a Partnership.
Filed July 14, 1932. Serial No. 328,803. PUBLISHED DECEMBER 27, 1932. Class 42.

305,598. FINGER WAVE PIN. LUI'S PATENT HAIRPIN Co., Napa, Calif.
Filed August 1, 1932. Serial No. 329,276. PUBLISHED MAY 16, 1933. Class 40.

305,599. SPLASH GUARDS FOR MOTOR VEHICLES. CASCO PRODUCTS CORPORATION, Bridgeport, Conn.
Filed April 23, 1932. Serial No. 326,415. PUBLISHED JUNE 13, 1933. Class 19.

305,600. LADIES' COATS AND JACKETS. JOHN EDELMAN & SONS, New York, N. Y.
Filed June 13, 1932. Serial No. 328,047. PUBLISHED MAY 23, 1933. Class 39.

305,601. OINTMENT AND WHITENING CREAM. E. T. BROWNE DRUG CO. INC., New York, N. Y.
Filed April 7, 1932. Serial No. 326,867. PUBLISHED JUNE 13, 1933. Class 6.

305,602. SHOES MADE OF LEATHER. THE FLORSHEIM SHOE COMPANY, Chicago, Ill.
Filed April 18, 1932. Serial No. 326,210. PUBLISHED JUNE 14, 1932. Class 39.

305,603. CIGARS. GARCIA GRANDE CIGARS, INCORPORATED, New York, N. Y.
Filed May 3, 1933. Serial No. 337,425. PUBLISHED JUNE 13, 1933. Class 17.

305,604. NEWSPAPER. WESTCHESTER SOCIAL & SHOPPING NEWS, INC., White Plains, N. Y.
Filed May 2, 1933. Serial No. 337,403. PUBLISHED JUNE 13, 1933. Class 38.

305,605. ELECTRODE MATERIAL FOR WELDING AND DIES. ELECTROLOY COMPANY, INC., Plainfield, N. J., and New York, N. Y.
Filed May 4, 1933. Serial No. 337,463. PUBLISHED JUNE 13, 1933. Class 14.

305,606. PERIODICAL PUBLICATION. W. G. BRYAN AND ASSOCIATES, New York, N. Y.
Filed May 4, 1933. Serial No. 337,457. PUBLISHED JUNE 13, 1933. Class 38.

305,607. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. MONUMENTAL PERFECT BREW CO., Baltimore, Md.
Filed May 3, 1933. Serial No. 337,436. PUBLISHED JUNE 13, 1933. Class 48.

305,608. CARD GAME AND CHART FOR PLAYING SAME. JOHN L. MITCHELL, Waukegan, Ill.
Filed May 6, 1933. Serial No. 337,509. PUBLISHED JUNE 13, 1933. Class 22.

305,609. WINES. FRUIT INDUSTRIES, LTD., Los Angeles, Calif., and New York, N. Y.
Filed May 6, 1933. Serial No. 337,558. PUBLISHED JUNE 13, 1933. Class 47.

305,610. MALT BEVERAGES AND LIQUORS. THE FREDERIUS COMPANY, New Haven, Conn.
Filed May 6, 1933. Serial No. 337,557. PUBLISHED JUNE 13, 1933. Class 48.

305,611. ARTISTIC PRINTED PICTORIAL REPRESENTATIONS. LEWIS R. STEWART, New York, N. Y.
Filed September 30, 1932. Serial No. 330,337. PUBLISHED JUNE 6, 1933. Class 38.

305,612. SELF-LUBRICATING METALS, BUSHING METALS, AND ROUGH OR SEMI-FINISHED BUSHINGS FORMED FROM AN ALLOY CONTAINING COPPER, ZINC, LEAD, TIN, AND NICKEL. CHROME ALLOYS MANUFACTURING CO., Oakland, Calif.
Filed October 3, 1932. Serial No. 330,890. PUBLISHED JUNE 6, 1933. Class 14.

305,613. SHERRY WINE. GEO. G. SANDEMAN, SONS & CO. LIMITED, London, England.
Filed May 9, 1933. Serial No. 337,645. PUBLISHED JUNE 13, 1933. Class 47.

305,614. WHISKY AND RUM. LANCASTER & BULL, London, England.
Filed May 8, 1933. Serial No. 337,612. PUBLISHED JUNE 13, 1933. Class 49.

305,615. TOYS. THE CHAMPION HARDWARE COMPANY, Geneva, Ohio.
Filed September 19, 1932. Serial No. 330,449. PUBLISHED JUNE 6, 1933. Class 22.

305,616. PEAT MOSS FOR POULTRY AND ANIMAL BEDDING (POULTRY LITTER), PEAT MOSS FOR HORTICULTURAL AND FLORAL USE, POULTRY FEEDING GRIT, POULTRY FEEDING CHARCOAL, AND CRUSHED OYSTER SHELLS FOR POULTRY FEEDING. EST. DUNWOODY CO., Philadelphia, Pa.
Filed September 23, 1932. Serial No. 330,611. PUBLISHED APRIL 11, 1933. Class 1.

305,617. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS, MADE WHOLLY OR IN PART OF LEATHER, RUBBER, CANVAS, OR TEXTILE MATERIALS. CLAUDE H. DANIELS, Boston, Mass.
Filed August 23, 1932. Serial No. 329,769. PUBLISHED MAY 30, 1933. Class 39.

305,618. HYDRAULIC CEMENT ADAPTED FOR UNDER-WATER USE. THE CRANDALL ENGINEERING COMPANY, Cambridge, Mass.
Filed April 8, 1933. Serial No. 336,561. PUBLISHED JUNE 13, 1933. Class 12.

305,619. MEN'S HATS. WHITE, New Haven, Conn.
Filed April 5, 1933. Serial No. 336,476. PUBLISHED JUNE 6, 1933. Class 39.

305,620. MEN'S HATS. WHITE, New Haven, Conn.
Filed April 5, 1933. Serial No. 336,475. PUBLISHED JUNE 6, 1933. Class 39.

305,621. MEN'S HATS. WHITE, New Haven, Conn.
Filed April 5, 1933. Serial No. 336,474. PUBLISHED JUNE 6, 1933. Class 39.

305,622. MEDICAL AND SURGICAL APPLIANCES, ESPECIALLY ATOMIZERS. ROBERT A. CUSHMAN, doing business as Koberal Products Company, Lowell, Mass.
Filed April 6, 1933. Serial No. 336,562. PUBLISHED JUNE 13, 1933. Class 44.

305,623. GIRDLES, CORSETS, AND BRASSIÈRES, AND COMBINATIONS THEREOF. ARTISTIC BRASSIERE CO. INC., New York, N. Y.
Filed April 6, 1933. Serial No. 336,488. PUBLISHED JUNE 6, 1933. Class 39.

305,624. PICTURE PUZZLES CONSISTING OF INTERLOCKING PIECES WHICH FIT TOGETHER TO FORM A COMPLETE PICTURE, COMMONLY KNOWN AS "JIG SAW PUZZLES". LA FRANCE WORKSHOP COMPANY, Clifton Heights, Pa.
Filed April 4, 1933. Serial No. 336,435. PUBLISHED JUNE 6, 1933. Class 22.

305,625. MEN'S HATS. WHITE, New Haven, Conn.
Filed April 5, 1933. Serial No. 336,477. PUBLISHED JUNE 6, 1933. Class 39.

305,626. DIGESTIVE POWDER. LANDRETT LIMITED, Los Angeles, Calif.
Filed April 5, 1933. Serial No. 336,438. PUBLISHED JUNE 6, 1933. Class 6.

305,627. FACE LOTION. JACOB ELLWOOD MCINTYRE, doing business as The Tonee Company, Pittsburgh, Pa.
Filed April 5, 1933. Serial No. 336,440. PUBLISHED JUNE 6, 1933. Class 6.

305,628. NON-ALCOHOLIC, MALTLESS FLAVORS AND EXTRACTS FOR MAKING SOFT DRINKS. THEODORE OSMAN, doing business as Stamford Drug Company, Stamford, Conn.
Filed April 5, 1933. Serial No. 336,451. PUBLISHED JUNE 6, 1933. Class 45.

305,629. TONIC LAXATIVE MEDICINE. HUGH D. HART, doing business as Herba-Vita Company, Camden, N. J.
Filed April 1, 1932. Serial No. 325,711. PUBLISHED JULY 26, 1932. Class 6.

305,630. MEN'S HATS. WHITE, New Haven, Conn.
Filed April 5, 1933. Serial No. 336,473. PUBLISHED JUNE 6, 1933. Class 39.

305,631. ANTISEPTIC POWDER FOR FORMING MOUTH WASHES. WILLIAM F. VOSSELER, doing business as Thymogen Laboratories, Cincinnati, Ohio.
Filed April 4, 1933. Serial No. 336,411. PUBLISHED JUNE 6, 1933. Class 6.

305,632. PILE FABRICS IN THE PIECE. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa.
Filed March 23, 1933. Serial No. 335,992. PUBLISHED MAY 30, 1933. Class 42.

305,633. TEXTILE FABRICS IN THE PIECE OF WOOL, COTTON, RAYON, SILK, AND/OR COMBINATIONS THEREOF. BOTANY WORSTED MILLS, Passaic, N. J.
Filed March 23, 1933. Serial No. 335,989. PUBLISHED MAY 30, 1933. Class 42.

305,634. TAPES, BINDINGS, BRAIDS, AND NARROW FABRICS. ALVA TAPE MILLS, Philadelphia, Pa.
Filed March 28, 1933. Serial No. 335,966. PUBLISHED MAY 30, 1933. Class 40.

305,635. OINTMENT FOR ECZEMIC ERUPTIONS, ACNE, SALT RHEUM, TETTER, RINGWORM, ERYTHEMA, SCALL, BARBER'S ITCH, PIMPLES, AND OTHER FORMS OF ITCHING AND PARASITIC SKIN DISEASES. E. T. BROWNE DRUG CO. INC., New York, N. Y.
Filed April 7, 1932. Serial No. 325,865. PUBLISHED JUNE 13, 1933. Class 6.

305,636. PREPARATION FOR THE TREATMENT OF THE RESPIRATORY TRACT, MUSCLES, LIMBS, AND FOR USE AS AN EXTERNAL BODY RUB. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y.
Filed April 4, 1933. Serial No. 336,407. PUBLISHED JUNE 6, 1933. Class 6.

305,637. SHEETS, PILLOWCASES, AND SHEETINGS. ERNEST SIMONS MFG. COMPANY, Port Chester, N. Y.
Filed April 5, 1933. Serial No. 336,462. PUBLISHED JUNE 6, 1933. Class 42.

305,638. TEXTILE RUGS. LUDWIG BAUMANN & COMPANY, New York, N. Y.
Filed March 22, 1933. Serial No. 335,952. PUBLISHED MAY 30, 1933. Class 42.

305,639. ROOT BEER CONCENTRATE AND SYRUP. THE CHARLES E. HIRES COMPANY, Philadelphia, Pa.
Filed November 29, 1932. Serial No. 332,584. PUBLISHED JUNE 6, 1933. Class 45.

305,640. TOILET WATER. R. ARRILLAGA ROQUE, doing business as The Regional Medicine Co., Anasco, Puerto Rico.
Filed October 12, 1932. Serial No. 331,199. PUBLISHED JUNE 13, 1933. Class 6.

305,641. LEATHER SHOES. WEYENBERG SHOE MFG. Co., Milwaukee, Wis.
Filed October 7, 1932. Serial No. 331,071. PUBLISHED MAY 30, 1933. Class 39.

305,642. OVERALLS AND PLAYSUITS FOR CHILDREN. POOL MANUFACTURING COMPANY, Sherman, Tex.
Filed March 22, 1933. Serial No. 335,970. PUBLISHED MAY 30, 1933. Class 39.

305,643. KNIT UNDERWEAR AND CUT AND SEWN UNDERWEAR, AS FOLLOWS: SHIRTS, DRAWERS, AND UNION SUITS; ATHLETIC DRAWERS, ALSO KNOWN AS RUNNING PANTS OR TRACK PANTS; SPORT SHIRTS AND NEKLIGEE SHIRTS, PAJAMAS, SWEATERS, BATHING SUITS, SURF SUITS, SWIMSHIRTS, SWIMSHORTS, AND SWIMPANTS. THE MANHATTAN SHIRT Co., New York, N. Y.

305,644. FRACTIONAL RATION OR FOR RATION COMPRISING TREATED VEGETATION FOR POULTRY, LIVE STOCK AND HUMAN BEINGS. THE ENZA-VITA LABORATORIES, INC., Toledo, Ohio.
Filed October 22, 1932. Serial No. 331,458. PUBLISHED JUNE 6, 1933. Class 46.

305,645. DOUGH IMPROVER, I. E., A COMPOSITION OR COMPOUND USED AS AN INGREDIENT OF BREAD TO IMPROVE THE QUALITY THEREOF. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed October 21, 1932. Serial No. 331,445. PUBLISHED JUNE 6, 1933. Class 46.

305,646. AUTOMOBILES AND STRUCTURAL PARTS THEREOF. THE M. G. CAR COMPANY LIMITED, Abingdon, England.
Filed March 21, 1933. Serial No. 335,919. PUBLISHED JUNE 6, 1933. Class 19.

305,647. WATER PROOFING AND OIL PROOFING PREPARATION FOR COATING FABRICS, PAPER, AND THE LIKE. IMPERVIOUS PRODUCTS, INC., Cleveland, Ohio.
Filed April 8, 1933. Serial No. 336,589. PUBLISHED JUNE 13, 1933. Class 6.

305,648. WINES. VIRGINIA DARE EXTRACT COMPANY, INC., Brooklyn, N. Y.
Filed April 8, 1933. Serial No. 336,586. PUBLISHED JUNE 6, 1933. Class 47.

305,649. PREPARATION FOR USE IN THE TREATMENT OF HIGH BLOOD PRESSURE, HARDENED ARTERIES AND STROKE. UTONIA INC., Detroit, Mich.
Filed March 21, 1933. Serial No. 335,949. PUBLISHED JUNE 13, 1933. Class 6.

305,650. LADIES' SILK UNDERWEAR — NAMELY, PAJAMAS, NIGHTGOWNS, SLIPS, DANCE SETS, AND PANTIES. SUSSBERG & FEINBERG, INC., New York, N. Y.
Filed March 21, 1933. Serial No. 335,946. PUBLISHED MAY 23, 1933. Class 39.

305,651. PANTS, COATS, AND VESTS FOR MEN AND YOUNG MEN. FINCHLEY INC., New York, N. Y.
Filed March 21, 1933. Serial No. 335,933. PUBLISHED MAY 23, 1933. Class 39.

305,652. WOMEN'S DRESSES AND BLOUSES. STORYK BROS., New York, N. Y.
Filed April 6, 1933. Serial No. 336,517. PUBLISHED JUNE 6, 1933. Class 39.

305,653. COFFEE. C. D. KENNY CO., Baltimore, Md.
Filed April 6, 1933. Serial No. 336,505. PUBLISHED JUNE 6, 1933. Class 46.

305,654. PERFUME. GODISSART'S PARFUM CLASSIQUE FRANCAIS INC. LTD., Wilmington, Del., and Los Angeles, Calif.
Filed March 26, 1932. Serial No. 325,521. PUBLISHED JUNE 21, 1932. Class 6.

305,655. CANDIES. CANDY PRODUCTS CORPORATION, Owosso, Mich.
Filed December 12, 1932. Serial No. 332,088. PUBLISHED JUNE 6, 1933. Class 46.

305,656. RADIATOR CLEANER, RADIATOR STOP LEAK, AND RADIATOR ANTI-FREEZE, EACH FOR USE WITH AUTOMOTIVE VEHICLES; AND FOR INSECTICIDES. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed December 7, 1932. Serial No. 332,854. PUBLISHED MAY 30, 1933. Class 6.

305,657. SHOWERPROOFED TEXTILE FABRICS. J. MANDLEBERG & COMPANY LIMITED, Manchester, England.
Filed November 29, 1932. Serial No. 332,591. PUBLISHED MAY 16, 1933. Class 42.

305,658. COLD CREAM, FACE CREAM, AND SKIN LOTION. JOSEPH J. MARTINELLI, San Francisco, Calif.
Filed November 4, 1932. Serial No. 331,901. PUBLISHED MAY 30, 1933. Class 6.

305,659. BOOTS AND SHOES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. FREEMAN SHOE CORPORATION, Beloit, Wis.
Filed March 14, 1933. Serial No. 335,637. PUBLISHED MAY 30, 1933. Class 39.

305,660. CAST STONE FOR MAUSOLEUMS, TOMBSTONES, MONUMENTS, MEMORIAL MARKERS, BURIAL VAULTS, PORCH STEPS, COLUMNS, GARDEN FURNITURE, BUILDING TRIM, INCLUDING INTERIOR AND EXTERIOR STONE WORK, FIRE-PLACES, FLOORS, ETC. PAUL & RUSSELL, INC., Westmont, N. J.
Filed March 13, 1933. Serial No. 335,623. PUBLISHED JUNE 13, 1933. Class 12.

305,661. RAINCOATS. LUSTBERG, NAST & CO. INC., New York, N. Y.
Filed November 19, 1932. Serial No. 332,306. PUBLISHED MAY 30, 1933. Class 39.

305,662. PAINTS OF READY-MIXED FORM, VARNISHES, ENAMELS OF THE PAINT OR VARNISH TYPE, LACQUERS, STAINS, PAINT UNDERCOATERS; AND THINNERS FOR PAINTS, VARNISHES, ENAMELS, LACQUERS, STAINS, AND UNDERCOATERS. THE LOWE BROTHERS COMPANY, Dayton, Ohio.
Filed November 14, 1932. Serial No. 332,123. PUBLISHED JUNE 13, 1933. Class 16.

305,663. MALTED MILK POWDER USED IN PREPARATION OF FOOD BEVERAGES. WESTERN DAIRY PRODUCTS, INC., Los Angeles, Calif.
Filed November 9, 1932. Serial No. 332,016. PUBLISHED JUNE 6, 1933. Class 46.

305,664. ROOT BEER CONCENTRATE AND SYRUP. THE CHARLES E. HIRES COMPANY, Philadelphia, Pa.
Filed November 29, 1932. Serial No. 332,583. PUBLISHED JUNE 6, 1933. Class 45.

305,665. NEEDLES OF ALL DESCRIPTIONS FOR HAND SEWING; PINS NOT MADE OF PRECIOUS METAL, INCLUDING TOILET PINS AND KNITTING PINS; BODKINS; AND CROCHET HOOKS. THE ENGLISH NEEDLE & FISHING TACKLE CO., LIMITED, Studley, England.
Filed November 25, 1932. Serial No. 332,449. PUBLISHED MAY 16, 1933. Class 40.

305,666. NON-ODOUROUS DISINFECTANT. CHARLES PERKINS, Vancouver, British Columbia, Canada.
Filed November 22, 1932. Serial No. 332,394. PUBLISHED MAY 30, 1933. Class 6.

305,667. PILE FABRICS, IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed March 22, 1933. Serial No. 335,963. PUBLISHED MAY 30, 1933. Class 42.

305,668. BEER WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. CERVECERIA CUAUHTEMOC, S. A., Monterrey, Mexico.
Filed January 18, 1933. Serial No. 334,045. PUBLISHED JUNE 6, 1933. Class 46.

305,669. SHOES MADE OF LEATHER AND FABRIC. THE MORAN SHOE COMPANY, INC., Carlyle, Ill.
Filed January 21, 1933. Serial No. 334,225. PUBLISHED JUNE 13, 1933. Class 39.

305,670. INTERLININGS AND LININGS IN THE PIECE. DANIEL BERSIN, doing business as Danbers Manufacturing Co., New York, N. Y.
Filed January 21, 1933. Serial No. 334,206. PUBLISHED JUNE 6, 1933. Class 42.

305,671. SEASONAL PERIODICAL PUBLICATIONS. ALDEN & WICKES, INC., Boston, Mass.
Filed January 20, 1933. Serial No. 334,174. PUBLISHED JUNE 13, 1933. Class 38.

305,672. FOUNTAIN PENS, MECHANICAL PENCILS, AND DESK SETS. THE PARKER PEN COMPANY, Janesville, Wis.
Filed January 30, 1933. Serial No. 334,466. PUBLISHED JUNE 13, 1933. Class 37.

305,673. LADIES' HATS. BLOOMINGDALE BROS., INC., New York, N. Y.
Filed January 27, 1933. Serial No. 334,382. PUBLISHED MAY 16, 1933. Class 39.

305,674. GLOVES MADE OF FABRICS AND/OR COTTON MESH. THE PALL MALL LACE & EMBROIDERY WORKS, INC., New York, N. Y.
Filed January 26, 1933. Serial No. 334,368. PUBLISHED MAY 23, 1933. Class 39.

305,675. FRESH CITRUS FRUITS. WINTER HAVEN FRUIT SALES CORPORATION, Winter Haven, Fla.
Filed January 31, 1933. Serial No. 334,509. PUBLISHED JUNE 6, 1933. Class 46.

305,676. APPAREL FOR WOMEN AND GIRLS—NAMELY, PARTY FROCKS, DRESSES, DRESSING GOWNS, KIMONOS, PAJAMAS, BEACH ROBES, NIGHTGOWNS, BOUDOIR CAPS, NEGLIGEES, UNDER AND OUTER WAISTS, SCARFS, BLOOMERS, AND UNDERWEAR OF KNITTED, NETTED, AND TEXTILE FABRICS; APPAREL FOR MEN—NAMELY, DRESSING GOWNS, PAJAMAS, NEGLIGEE SHIRTS, AND UNDERWEAR OF KNITTED, NETTED, AND TEXTILE FABRICS. DUMARI TEXTILE CO., INC., New York, N. Y.
Filed January 31, 1933. Serial No. 334,490. PUBLISHED MAY 23, 1933. Class 39.

305,677. LEATHER AND PART LEATHER GLOVES. FRED SNOW, doing business as Napa Glove Company, Napa, Calif.
Filed January 30, 1933. Serial No. 334,473. PUBLISHED MAY 16, 1933. Class 39.

305,678. CHOCOLATE-FLAVORED SYRUP USED IN FLAVORING MILK, WHETHER WHOLE OR SKIM MILK, AND ALSO FOR FLAVORING OTHER FOODS. BOWEY'S, INC., Chicago, Ill.
Filed February 3, 1933. Serial No. 334,596. PUBLISHED JUNE 6, 1933. Class 46.

305,679. WOMEN'S AND MISSES' HATS. SAKS & COMPANY, New York, N. Y.
Filed February 2, 1933. Serial No. 334,578. PUBLISHED MAY 16, 1933. Class 39.

305,680. FOOT POWDER. SIDNEY CAPLAN, doing business as Sid's Remedy Co., Chicago, Ill.
Filed February 1, 1933. Serial No. 334,523. PUBLISHED JUNE 6, 1933. Class 6.

305,681. COTTON FABRICS IN THE PIECE. CLARENCE S. BROWN & COMPANY, INC., New York, N. Y.
Filed December 22, 1932. Serial No. 333,279. PUBLISHED MAY 30, 1933. Class 42.

305,682. METAL WORKING MACHINES AND TOOLS. THE NATIONAL ACME CO., Cleveland, Ohio.
Filed December 14, 1932. Serial No. 333,077. PUBLISHED MAY 30, 1933. Class 23.

305,683. TOILET PAPER. INLANDER-STEINFELS PAPER COMPANY, Chicago, Ill.
Filed December 13, 1932. Serial No. 333,036. PUBLISHED MARCH 21, 1933. Class 37.

305,684. CARBON BLACK FOR USE IN THE MANUFACTURE OF WATER INKS. GODFREY L. CABOT, INC., Boston, Mass.
Filed December 30, 1932. Serial No. 333,502. PUBLISHED JUNE 6, 1933. Class 11.

305,685. HEADED SCREW MACHINE PRODUCTS—NAMELY, UPSET HEAD MACHINE SCREWS, CARRIAGE BOLTS, SQUARE HEAD PIPE PLUGS, AND HEXAGON AND SQUARE HEAD CAP SCREWS AND BOLTS, WITH CUT OR ROLLED THREADS. ALUMINUM COMPANY OF AMERICA, Pittsburgh, Pa.
Filed December 23, 1932. Serial No. 333,310. PUBLISHED JUNE 13, 1933. Class 13.

305,686. CHILDREN'S DRESSES AND TOP COATS. JOSEPH LOVE, INC., New York, N. Y.
Filed December 22, 1932. Serial No. 333,294. PUBLISHED JUNE 6, 1933. Class 39.

305,687. PERFUMES, FACE POWDER, ROUGES, ETC. SCHERK G. M. B. H., Berlin, Germany.
Filed December 30, 1932. Serial No. 333,533. PUBLISHED MAY 30, 1933. Class 6.

305,688. SHOCK ABSORBER FLUID HAVING A GLYCERINE BASE. HOUDE ENGINEERING CORPORATION, Buffalo, N. Y.
Filed December 30, 1932. Serial No. 333,516. PUBLISHED JUNE 13, 1933. Class 6.

305,689. SHOCK ABSORBER FLUID HAVING A GLYCERINE BASE. HOUDE ENGINEERING CORPORATION, Buffalo, N. Y.
Filed December 30, 1932. Serial No. 333,515. PUBLISHED JUNE 13, 1933. Class 6.

305,690. SODIUM RESINATE AND EMULSIFIED BINDERS FOR COAL DUST. THE CHAMPION FIBER COMPANY, Canton, N. C.
Filed January 5, 1933. Serial No. 333,671. PUBLISHED MAY 30, 1933. Class 6.

305,691. ALCOHOL ANTI-FREEZE AND A PREPARATION FOR USE AS A RADIATOR LEAK-STOP. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed January 3, 1933. Serial No. 333,564. PUBLISHED MAY 30, 1933. Class 6.

305,692. INSECTICIDE. JOHNSON OIL REFINING COMPANY, Chicago, Ill.
Filed December 31, 1932. Serial No. 333,556. PUBLISHED MAY 30, 1933. Class 6.

305,693. BUTTONS OF ALL VARIED FORMS, AND INGREDIENTS WHICH ARE USED FOR MAKING BUTTONS, EXCEPT BUTTONS MADE OF PRECIOUS METAL. CHARLES GREENHAUS, doing business as N. Y. B. Co., New York, N. Y.
Filed January 17, 1933. Serial No. 334,009. PUBLISHED JUNE 13, 1933. Class 40.

305,694. BUST CONFINING GARMENTS. KORS BROTHERS, INC., New York, N. Y.
Filed January 14, 1933. Serial No. 333,937. PUBLISHED MAY 16, 1933. Class 39.

305,695. WASHING FLUID-DISINFECTANT-BLEACH. C. M. KIMBALL CO., Everett, Mass.
Filed January 7, 1933. Serial No. 333,734. PUBLISHED JUNE 6, 1933. Class 6.

305,696. MEN'S, WOMEN'S, AND CHILDREN'S SHOES MADE OF LEATHER AND ALSO OF COMBINATIONS OF LEATHER AND FABRIC. PETER A. HILL, Philadelphia, Pa.
Filed January 18, 1933. Serial No. 334,057. PUBLISHED JUNE 13, 1933. Class 39.

305,697. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. CERVECERIA CUAUHTEMOC, S. A., Monterrey, Mexico.
Filed January 18, 1933. Serial No. 334,046. PUBLISHED JUNE 6, 1933. Class 45.

305,698. HOSIERY. MOCK, JUDSON, VOEHRINGER CO., INC., Long Island City, N. Y.
Filed March 21, 1933. Serial No. 335,918. PUBLISHED MAY 23, 1933. Class 39.

305,699. NON-ALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND TABLE WATER. THE RED RAVEN CORPORATION, Red Raven, Pa.
Filed March 20, 1933. Serial No. 335,885. PUBLISHED JUNE 6, 1933. Class 45.

305,700. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, ETC. MERCHANTS SERVICE CORPORATION, Chicago, Ill.
Filed March 20, 1933. Serial No. 335,871. PUBLISHED JUNE 6, 1933. Class 46.

305,701. DYES AND OILS OR CHEMICAL PREPARATIONS USED AS DYE ASSISTANTS. NOVA CHEMICAL CORPORATION, New York, N. Y.
Filed March 20, 1933. Serial No. 335,874. PUBLISHED JUNE 6, 1933. Class 6.

305,702. HATS FOR MEN AND WOMEN. HAT CORPORATION OF AMERICA, Norwalk, Conn.
Filed March 15, 1933. Serial No. 335,675. PUBLISHED MAY 16, 1933. Class 39.

305,703. BOOTS AND SHOES OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF. INTERNATIONAL SHOE CO., St. Louis, Mo.
Filed March 15, 1933. Serial No. 335,677. PUBLISHED MAY 16, 1933. Class 39.

305,704. LADIES', MISSES', JUNIOR AND CHILDREN'S DRESSES, PAJAMAS, UNDERWEAR, SLIPS, STEP-INS, BANDEAUS, GOWNS, AND BLOOMERS. KATE UNDERWEAR CO., Honesdale, Pa.
Filed March 15, 1933. Serial No. 335,679. PUBLISHED MAY 16, 1933. Class 39.

305,705. SMOKERS' PIPES, CIGAR HOLDERS, AND CIGARETTE HOLDERS. KAUFMANN BROS. & BONDY, INC., West New York, N. J.
Filed March 15, 1933. Serial No. 335,680. PUBLISHED JUNE 13, 1933. Class 8.

305,706. SHOES AND SLIPPERS MADE OF LEATHER OR LEATHER AND FABRIC OR FABRIC AND RUBBER. HERBERT H. ROOSA, Rochester, N. Y.
Filed March 14, 1933. Serial No. 335,648. PUBLISHED MAY 16, 1933. Class 39.

305,707. SELF-HARDENING, ACID- AND WATER-PROOF CONSTRUCTION CEMENTS. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed March 15, 1933. Serial No. 335,669. PUBLISHED JUNE 13, 1933. Class 12.

305,708. HATS FOR MEN AND WOMEN. HAT CORPORATION OF AMERICA, Norwalk, Conn.
Filed March 15, 1933. Serial No. 335,674. PUBLISHED MAY 16, 1933. Class 39.

305,709. TANK WATER SOFTENERS FOR DOMESTIC USE. THOMAS NELSON GIBSON, Indianapolis, Ind.
Filed April 19, 1933. Serial No. 336,940. PUBLISHED JUNE 6, 1933. Class 13.

305,710. NARROW ELASTIC. A. STEIN & COMPANY, Chicago, Ill.
Filed January 2, 1932. Serial No. 322,660. PUBLISHED MAY 30, 1933. Class 40.

305,711. SOFT GAUZE UNITS IN PLICATED AND ROLLED FORM FOR STRAINING, PRESERVING, AND PROTECTING FOOD, AND FOR NUMEROUS OTHER HOUSEHOLD AND PERSONAL USES. CHICOPEE MANUFACTURING CORPORATION, New Brunswick, N. J.
Filed January 19, 1932. Serial No. 323,106. PUBLISHED MAY 16, 1933. Class 42.

305,712. PERIODICALS. INTER-COLLEGIATE PRESS, Kansas City, Mo.
Filed April 20, 1933. Serial No. 336,986. PUBLISHED JUNE 6, 1933. Class 38.

305,713. FINISHES FOR FLOORS AND OTHER FURNITURE SURFACES—NAMELY, WAXES IN SOLID AND LIQUID FORM, TIRE PAINT, AND PAINT ENAMELS. NOXON CHEMICAL PRODUCTS CO. INC., Newark, N. J.
Filed April 19, 1933. Serial No. 336,956. PUBLISHED JUNE 13, 1933. Class 16.

305,714. DIETETICAL FOODS—NAMELY, GENERAL TONICS AND STOMACHICS, PREPARATIONS FOR INVIGORATING AND REVIVING THE SYSTEM, MEDICATED APPETIZERS. DR. RUDOLF REISS RHEUMASAN- UND LENICET-FABRIK, Berlin-Charlottenburg, Germany.
Filed December 18, 1930. Serial No. 309,148. PUBLISHED JUNE 13, 1933. Class 6.

305,715. BABY PANTS OF RUBBER OR OF RUBBER COATED TEXTILE FABRIC. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed April 1, 1931. Serial No. 312,807. PUBLISHED MAY 30, 1933. Class 39.

305,716. AFTER SHAVING LOTION, ROUGE, COLD CREAM, HAIR TONIC, FACE POWDERS, TALCUM POWDERS, TOOTH POWDERS, NAIL POWDERS, AND FOOT POWDERS, TALC. MAX FACTOR & CO. INC., Los Angeles, Calif.
Filed September 8, 1931. Serial No. 318,826. PUBLISHED NOVEMBER 24, 1931. Class 6.

305,717. PREPARATION FOR THE TREATMENT OF SKIN LESIONS—AS, FOOT ITCH, ATHLETE'S FOOT ITCH, ETC. HUTCHINS' CHEMICAL CO., Washington, D. C.
Filed December 2, 1931. Serial No. 321,684. PUBLISHED JANUARY 12, 1932. Class 6.

305,718. PIPES, CIGAR AND CIGARETTE HOLDERS, TOBACCO POUCHES, CIGARETTE PAPER, AND PIPE CASES. KAUFMANN BROS. & BONDY, INC., West New York, N. J.
Filed March 15, 1933. Serial No. 335,681. PUBLISHED JUNE 13, 1933. Class 8.

305,719. BABBITT METAL. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 15, 1933. Serial No. 335,693. PUBLISHED JUNE 13, 1933. Class 14.

305,720. BRASS GLOBE VALVES FOR RADIATORS AND OTHER PLUMBING WORK, BOLTS AND SHOWER BATH FIXTURES, HOUSEHOLD STRAINER SETS, METAL AND ENAMEL WASH BASINS, AND BAKING PANS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 15, 1933. Serial No. 335,694. PUBLISHED JUNE 6, 1933. Class 13.

305,721. BRAKE FLUID—NAMELY, A FLUID COMPOSITION FOR THE TRANSMISSION OF HYDRAULIC PRESSURE IN BRAKE SYSTEMS SUCH AS ARE USED IN AUTOMOBILES. PURITAN SOAP COMPANY, Rochester, N. Y.
Filed March 16, 1933. Serial No. 335,736. PUBLISHED MAY 30, 1933. Class 6.

305,722. MEDICINAL PREPARATIONS FOR USE IN TREATING ANIMALS—NAMELY, VERMIFUGES, TONICS USED AS DIGESTIVE STIMULANTS AND APPETIZERS, PREPARATIONS FOR TREATMENT OF SKIN DISEASES AND IRRITATIONS, SUCH AS MANGE, ECZEMA, WET SPOTS, AND DANDRUFF; AND PREPARATIONS FOR THE REMOVAL OF FLEAS AND VERMIN. DOG RITE PRODUCTS, INC., Poughkeepsie, N. Y.
Filed March 17, 1933. Serial No. 335,773. PUBLISHED JUNE 6, 1933. Class 6.

305,723. WOOLEN PIECE FABRICS. OREGON CITY MANUFACTURING COMPANY, doing business as Jacobs Oregon City Woolen Mills, Oregon City, Oreg.
Filed March 18, 1933. Serial No. 335,831. PUBLISHED MAY 30, 1933. Class 42.

305,724. GENERAL HORTICULTURAL DISINFECTANT. BAYER SEMESAN COMPANY, INC., Wilmington, Del.
Filed March 17, 1933. Serial No. 335,761. PUBLISHED MAY 30, 1933. Class 6.

305,725. MEN'S CLOTHING—NAMELY, SUITS AND OVERCOATS. THE BIG STORE CO., Cincinnati, Ohio.
Filed March 17, 1933. Serial No. 335,764. PUBLISHED MAY 30, 1933. Class 39.

305,726. MEDICINAL PREPARATION INTENDED TO RELIEVE PAIN. FREDERICK W. YOUNG, doing business as Waro Laboratories, Detroit, Mich.
Filed March 20, 1933. Serial No. 335,900. PUBLISHED JUNE 6, 1933. Class 6.

305,727. MEDICINAL PREPARATION INTENDED TO RELIEVE PAIN. FREDERICK W. YOUNG, doing business as Waro Laboratories, Detroit, Mich.
Filed March 20, 1933. Serial No. 335,901. PUBLISHED JUNE 6, 1933, Class 6.

305,728. MEN'S, WOMEN'S, AND CHILDREN'S LEATHER HUNTING COATS, LEATHER BREECHES AND TROUSERS, LEATHER FISHING JACKETS, AND LEATHER JACKETS FOR GENERAL SPORTS WEAR. BERLIN GLOVE CO., Berlin, Wis.
Filed February 25, 1933. Serial No. 335,270. PUBLISHED MAY 23, 1933. Class 39.

305,729. WOMEN'S, MISSES', AND JUNIORS' CLOTHING—NAMELY, EVENING GOWNS, DRESSES, SUITS, COATS, JACKETS, AND PAJAMAS. HIRSHBERG & SONS, INC., Chicago, Ill.
Filed March 1, 1933. Serial No. 335,895. PUBLISHED MAY 30, 1933. Class 39.

305,730. BREAD. DALE B. SKINNER, doing business as Pilot Bread Sales Co., Des Moines, Iowa.
Filed February 20, 1933. Serial No. 335,144. PUBLISHED JUNE 6, 1933. Class 46.

305,731. TOY CONSTRUCTION BLOCKS AND COASTING SLIDES. WUNDER MANUFACTURING CO., Moline, Ill.
Filed February 21, 1933. Serial No. 335,177. PUBLISHED JUNE 13, 1933. Class 22.

305,732. FACE CREAMS, HAIR TONICS, FACE LOTION LIQUIDS, FACE LOTIONS, AND FACE POWDERS. SAMUEL BERNSTEIN HAIR COMPANY, INC., Boston, Mass.
Filed February 28, 1933. Serial No. 335,344. PUBLISHED JUNE 6, 1933. Class 6.

305,733. COTTON GOODS IN THE PIECE. M. J. MACK TEXTILE CORP., New York, N. Y.
Filed February 28, 1933. Serial No. 335,362. PUBLISHED MAY 9, 1933. Class 42.

305,734. LADIES', MISSES' AND GIRLS' COATS, SUITS, DRESSES, BLOUSES, SWEATER, HOSIERY, LEATHER AND FABRIC GLOVES, SHOES MADE OF LEATHER, FABRIC, AND RUBBER, AND COMBINATIONS THEREOF; UNDERWEAR, NIGHT GOWNS, CORSETS, AND HATS. H. T. WILLIS, doing business as G. C. Willis, Champaign, Ill.
Filed February 28, 1933. Serial No. 335,378. PUBLISHED JUNE 13, 1933. Class 39.

305,735. HOUSEHOLD RUBBER GLOVES. AMERICAN ANODE INC., Akron, Ohio.
Filed March 1, 1933. Serial No. 335,386. PUBLISHED MAY 9, 1933. Class 39.

305,736. UNFINISHED, PRINTED, ENGRAVED, AND LITHOGRAPHED GREETING CARDS; ENCLOSURE CARDS AND PRINTED INVITATIONS. INTER-COLLEGIATE PRESS, Kansas City, Mo.
Filed March 3, 1933. Serial No. 335,450. PUBLISHED JUNE 6, 1933. Class 38.

305,737. CASTOR OIL, SPIRITS OF CAMPHOR, AROMATIC SPIRITS OF AMMONIA, ETC. SUPERIOR LABORATORIES, doing business as American Drug Prod. Co., Los Angeles, Calif.
Filed March 3, 1933. Serial No. 335,455. PUBLISHED MAY 30, 1933. Class 6.

305,738. NOODLES. ROMAN MACARONI CO. INC., Long Island City, N. Y.
Filed February 27, 1933. Serial No. 335,533. PUBLISHED JUNE 6, 1933. Class 46.

305,739. WOMEN'S AND CHILDREN'S HATS AND CAPS. SAMUEL SCHEUER, New York, N. Y.
Filed March 2, 1933. Serial No. 335,427. PUBLISHED JUNE 6, 1933. Class 39.

305,740. SEXUAL HORMONE, PITUITARY HORMONE, ENDOCRINE PREPARATION. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed March 2, 1933. Serial No. 335,430. PUBLISHED MAY 30, 1933. Class 6.

305,741. WOMEN'S LEATHER SHOES. BANCROFT-WALKER COMPANY, Boston and South Boston, Mass.
Filed March 3, 1933. Serial No. 335,442. PUBLISHED MAY 30, 1933. Class 39.

305,742. FABRICS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed March 3, 1933. Serial No. 335,446. PUBLISHED MAY 9, 1933. Class 42.

305,743. SLIPS, BOWNS, CHEMISES, PANTIES, BANDEAUX SETS, BANDEAUX, BLOOMERS, NEGLIGEES, AND PAJAMAS. DE GARCY CO. INC., New York, N. Y.
Filed March 11, 1933. Serial No. 335,590. PUBLISHED MAY 30, 1933. Class 39.

305,744. PERIODICAL STREET GUIDES AND MAPS. HEARNE BROTHERS, Detroit, Mich.,
Filed February 28, 1933. Serial No. 335,356. PUBLISHED JUNE 13, 1933. Class 38.

305,745. PORTLAND CEMENT. LONE STAR CEMENT COMPANY, INDIANA, INCORPORATED, Indianapolis, Ind.
Filed March 2, 1933. Serial No. 335,422. PUBLISHED JUNE 13, 1933. Class 12.

305,746. LIVE-STOCK FEED AND POULTRY FEED. STILLWATER MILLING COMPANY, Stillwater, Okla.
Filed February 15, 1933. Serial No. 335,010. PUBLISHED JUNE 6, 1933. Class 46.

305,747. RENAISSANCE LACE, CLUNY LACE, AND MEDALLION LACE, TOWELS, ETC. TOBIN, STORM & GLAGER, INC., New York, N. Y.
Filed February 15, 1933. Serial No. 335,012. PUBLISHED MAY 30, 1933. Class 42.

305,748. CERTAIN NAMED WEARING APPAREL. VANITY FAIR SILK MILLS, Reading, Pa.
Filed February 8, 1932. Serial No. 328,966. PUBLISHED APRIL 5, 1932. Class 39.

305,749. GIRDLES AND GARTER BELTS, HOSE SUPPORTERS, GARTERS, ARMBANDS, AND KNICKER GARTERS. MARCUS & WEBER INC., New York, N. Y.
Filed February 2, 1932. Serial No. 328,751. PUBLISHED JUNE 14, 1932. Class 39.

305,750. SHOES CONSTRUCTED OF LEATHER. THE H. C. GODMAN COMPANY, Columbus, Ohio.
Filed January 25, 1932. Serial No. 328,401. PUBLISHED MAY 30, 1933. Class 39.

305,751. VELVET IN THE PIECE. J. B. MARTIN COMPANY, Norwich, Conn.
Filed February 17, 1933. Serial No. 335,069. PUBLISHED MAY 9, 1933. Class 42.

305,752. COGNAC BRANDY. J. SANTAMARIA Y CIA, S. EN C., Jérez de la Frontera, Spain.
Filed February 20, 1933. Serial No. 335,136. PUBLISHED JUNE 6, 1933. Class 49.

305,753. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS AND SHOES MADE OF LEATHER, FABRIC, RUBBER, OR ANY COMBINATION OF ONE OR MORE OF SAID MATERIALS. A. H. GEUTING COMPANY, Philadelphia, Pa.
Filed April 5, 1932. Serial No. 325,822. PUBLISHED MAY 23, 1933. Class 39.

305,754. PREPARATION FOR THE TREATMENT OF TENDER GUMS. G. F. BROWN, Colorado Springs, Colo.
Filed March 12, 1932. Serial No. 325,196. PUBLISHED JUNE 6, 1933. Class 6.

305,755. MEN'S COTTON SHIRTINGS IN THE PIECE AND COTTON TEXTILE FABRICS. ALFRED L. HELWITH & Co., INC., New York, N. Y.
Filed February 27, 1933. Serial No. 335,319. PUBLISHED MAY 9, 1933. Class 42.

305,756. BRAID, DRAWN WORK, CROCHET MATS, ETC. TOBIN, SPORN & GLASER, INC., New York, N. Y.
Filed February 15, 1933. Serial No. 335,013. PUBLISHED MAY 30, 1933. Class 40.

305,757. ANTISEPTIC LINIMENTS, PERFUMES, SKIN TONICS, MEDICAL DISINFECTANTS, DENTIFRICE, DEODORANT, CHEMICAL PREPARATION FOR REMOVING STAINS, ROACH POWDER, PEROXIDE, AND LAUNDRY STARCH FOR WASHING PURPOSES, AND FOOD COLORS. HENRY DRUMMOND BRAEUTIGAM, doing business as Mutual Service, Newark, N. J.
Filed February 17, 1933. Serial No. 335,054. PUBLISHED MAY 30, 1933. Class 6.

305,758. FERTILIZERS. GOULARD & OLENA INC., New York, N. Y.
Filed February 17, 1933. Serial No. 335,059. PUBLISHED JUNE 6, 1933. Class 10.

305,759. TOILET ARTICLES. SYLVA-CROSS LABORATORIES, INC., New York, N. Y.
Filed February 23, 1933. Serial No. 335,218. PUBLISHED MAY 30, 1933. Class 6.

305,760. TOILET ARTICLES. SYLVA-CROSS LABORATORIES, INC., New York, N. Y.
Filed February 23, 1933. Serial No. 335,219. PUBLISHED MAY 30, 1933. Class 6.

305,761. HAIR CRIMPERS, COMBS, BARRETTES, AND NON-ELECTRIC CURLERS. H. GOODMAN & SONS, INC., New York, N. Y.
Filed February 24, 1933. Serial No. 335,234. PUBLISHED MAY 23, 1933. Class 40.

305,762. MEN'S SUITS, OVERCOATS, AND TOPCOATS. S. MARRANSKY AND SONS, INC., Philadelphia, Pa.
Filed March 30, 1933. Serial No. 336,224. PUBLISHED MAY 30, 1933. Class 39.

305,763. INSECTICIDE FOR EXTERMINATION OF INSECTS. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed March 30, 1933. Serial No. 336,230. PUBLISHED MAY 30, 1933. Class 6.

305,764. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. TACOMA BREWING CO., San Francisco, Calif.
Filed March 30, 1933. Serial No. 336,238. PUBLISHED JUNE 13, 1933. Class 48.

305,765. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. RAINIER BREWING COMPANY, San Francisco, Calif.
Filed March 30, 1933. Serial No. 336,241. PUBLISHED JUNE 6, 1933. Class 48.

305,766. WINES. COMPAÑIA MATA, UNIÓN DE BODEGAS ANDALUSAS, S. A., Malaga, Spain.
Filed March 30, 1933. Serial No. 336,216. PUBLISHED JUNE 13, 1933. Class 47.

305,767. PICKLING POWDER FOR USE IN THE TREATMENT OF CARBON STEEL. DELANY CHEMICAL COMPANY, Philadelphia, Pa.
Filed March 30, 1933. Serial No. 336,217. PUBLISHED MAY 30, 1933. Class 6.

305,768. COTTON DRESS GOODS AND COTTON PIECE GOODS. LORRAINE MANUFACTURING COMPANY, Pawtucket and Westerly, R. I., and New York, N. Y.
Filed March 30, 1933. Serial No. 336,223. PUBLISHED MAY 30, 1933. Class 42.

305,769. WOMEN'S AND CHILDREN'S SHOES OF LEATHER, FABRIC, RUBBER, AND/OR COMBINATIONS OF THE SAME. ARENBERG-PLOTKIN SHOE COMPANY, Scranton, Pa.
Filed March 30, 1933. Serial No. 336,207. PUBLISHED MAY 30, 1933. Class 39.

305,770. BURLAP, CANVAS AND FABRICS OF JUTE, HEMP, LINEN, AND COTTON OR COMBINATIONS OF SAME. PETER BUCCOLO, New York, N. Y.
Filed March 30, 1933. Serial No. 336,209. PUBLISHED MAY 30, 1933. Class 42.

305,771. PICKLING POWDER FOR USE IN THE TREATMENT OF CHROMIUM NICKEL ALLOY STEEL. DELANY CHEMICAL COMPANY, Philadelphia, Pa.
Filed March 30, 1933. Serial No. 336,215. PUBLISHED MAY 30, 1933. Class 6.

305,772. BRANDING LIQUID. THE O. M. FRANKLIN BLACKLEG SERUM COMPANY, Denver, Colo.
Filed April 1, 1933. Serial No. 336,320. PUBLISHED JUNE 6, 1933. Class 6.

305,773. DENTIFRICE. E. R. SQUIBB & SONS, New York, N. Y.
Filed April 1, 1933. Serial No. 336,336. PUBLISHED MAY 30, 1933. Class 6.

305,774. VITRI-COATED OR GLASS-COATED COPPER AND VITRI-COATED OR GLASS-COATED COPPER ALLOYS. COPPER & BRASS RESEARCH ASSOCIATION, New York, N. Y.
Filed April 3, 1933. Serial No. 336,343. PUBLISHED JUNE 13, 1933. Class 14.

305,775. PERCHLORETHYLENE, AND SOLVENT MIXTURES CONTAINING CHLORINE SUBSTITUTED HYDROCARBONS. DR. ALEXANDER WACKER GESELLSCHAFT FÜR ELEKTROCHEMISCHE INDUSTRIE, G. M. B. H., Munich, Germany.
Filed March 31, 1933. Serial No. 336,265. PUBLISHED MAY 30, 1933. Class 6.

305,776. MUSICAL MAGAZINE. THE MAGAZINE GUILD, INC., New York, N. Y.
Filed March 31, 1933. Serial No. 336,291. PUBLISHED JUNE 13, 1933. Class 38.

305,777. CONCENTRATED FOOD FOR DOGS, CATS, AND FOXES. JOHN F. MCKENNA, Los Angeles, Calif.
Filed March 31, 1933. Serial No. 336,292. PUBLISHED JUNE 6, 1933. Class 46.

305,778. SKIN POMATUM. PRINCESS HELENE GORTCHACOW, Naples, Italy.
Filed March 31, 1933. Serial No. 336,300. PUBLISHED MAY 30, 1933. Class 6.

305,779. FLEA AND LICE POWDER AND ANIMAL SHAMPOO. J. L. HOPKINS & Co., New York, N. Y.
Filed April 3, 1933. Serial No. 336,353. PUBLISHED JUNE 6, 1933. Class 6.

305,780. PETROLEUM GAS, LIQUEFIED PETROLEUM GAS. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif.
Filed April 3, 1933. Serial No. 336,378. PUBLISHED JUNE 6, 1933. Class 6.

305,781. SEWING THREAD. LILY MILL AND POWER COMPANY, Shelby, N. C.
Filed April 4, 1933. Serial No. 336,396. PUBLISHED MAY 30, 1933. Class 43.

305,782. TOILET TISSUE. MARGRET PAPER COMPANY, Philadelphia, Pa.
Filed April 4, 1933. Serial No. 336,397. PUBLISHED JUNE 13, 1933. Class 37.

305,783. LIQUID POLISHING WAX. ECONOMICS LABORATORY, INC., St. Paul, Minn.
Filed April 3, 1933. Serial No. 336,352. PUBLISHED JUNE 13, 1933. Class 16.

305,784. DEODORANTS AND ODOR DETERRENTS. FEMININE PRODUCTS, INC., New York, N. Y.
Filed February 8, 1933. Serial No. 334,746. PUBLISHED JUNE 6, 1933. Class 6.

305,785. HAIRPINS, NOT MADE OF PRECIOUS METAL. STA-RITE HAIR PIN COMPANY, Shelbyville, Ill.
Filed February 8, 1933. Serial No. 334,773. PUBLISHED MAY 16, 1933. Class 40.

305,786. WOOD BURNING FURNACES AND STOVES AND PARTS THEREOF. BOYNTON FURNACE CO., New York, N. Y.
Filed March 25, 1933. Serial No. 336,071. PUBLISHED JUNE 13, 1933. Class 34.

305,787. POTABLE SPIRITS, WHISKEY, AND LIQUORS. DISTILLERS CORPORATION LIMITED, Montreal, Quebec, Canada.
Filed February 6, 1933. Serial No. 334,666. PUBLISHED JUNE 6, 1933. Class 49.

305,788. MEN'S, WOMEN'S, AND CHILDREN'S LEATHER, RUBBER, AND CANVAS SHOES AND SLIPPERS. SAMUELS SHOE COMPANY, St. Louis, Mo.
Filed February 6, 1933. Serial No. 334,700. PUBLISHED MAY 30, 1933. Class 39.

305,789. MEDICINES TAKEN INTERNALLY FOR THE RELIEF OF RHEUMATISM, LUMBAGO, SCIATICA, AND GOUT. FRANK B. SELLECK, doing business as The Oxygen Medicine Co., Long Island City, N. Y.
Filed February 6, 1933. Serial No. 334,701. PUBLISHED JUNE 13, 1933. Class 6.

305,790. RAYON TEXTILE MATERIAL IN THE PIECE. S. T. PALAY & CO., INC., New York, N. Y.
Filed March 9, 1932. Serial No. 324,969. PUBLISHED APRIL 19, 1932. Class 42.

305,791. RAYON TAFFETA IN THE PIECE. S. T. PALAY & CO., INC., New York, N. Y.
Filed March 9, 1932. Serial No. 324,970. PUBLISHED APRIL 19, 1932. Class 42.

305,792. REPLACEMENT CLAMPS FOR FRUIT AND VEGETABLE JARS OF THE QUICK-SEAL TYPE. GRANGE BOY METAL PRODUCTS COMPANY, Batavia, N. Y.
Filed March 27, 1933. Serial No. 336,115. PUBLISHED JUNE 6, 1933. Class 13.

305,793. PILE FABRICS IN THE PIECE. COUDURIER, FRUCTUS & DESCHER, Lyon, France.
Filed February 8, 1933. Serial No. 334,598. PUBLISHED MAY 16, 1933. Class 42.

305,794. WOMEN'S BOOTS, SHOES, GAITERS, AND SPATS MADE WHOLLY OR IN PART OF LEATHER OR FABRIC. G. R. KINNEY CO., INC., New York, N. Y.
Filed February 9, 1933. Serial No. 334,800. PUBLISHED MAY 23, 1933. Class 39.

305,795. COTTON PIECE GOODS. RISDEL TEXTILE CORPORATION, New York, N. Y.
Filed February 10, 1933. Serial No. 334,846. PUBLISHED MAY 23, 1933. Class 42.

305,796. PERFUME, TOILET WATER, FACE POWDER, TACLUM POWDER, SKIN LOTION, CLEANSING CREAM, VANISHING CREAM, HAND CREAM, DAY CREAM, NIGHT CREAM. THE MILSON COMPANY, Cincinnati, Ohio.
Filed February 10, 1933. Serial No. 334,854. PUBLISHED JUNE 6, 1933. Class 6.

305,797. TWEEDS. KENNETH MACKENZIE, LIMITED, Stornoway, Isle-of-Lewis and Harris, Scotland.
Filed February 11, 1933. Serial No. 334,875. PUBLISHED MAY 30, 1933. Class 42.

305,798. WHISKEY AND OTHER POTABLE DISTILLED LIQUORS. J. & W. NICHOLSON & Co. LIMITED, London, England.
Filed March 24, 1933. Serial No. 336,048. PUBLISHED JUNE 13, 1933. Class 49.

305,799. GIN AND OTHER POTABLE DISTILLED LIQUORS. J. & W. NICHOLSON & Co. LIMITED, doing business as J. S. Smith, Druce & Co. Ltd., London, England.
Filed March 24, 1933. Serial No. 336,049. PUBLISHED JUNE 13, 1933. Class 49.

305,800. PREPARATION FOR USE AS A DISINFECTANT, DEODORANT, CLEANSER, AND STAIN REMOVER. EDWARD L. PETERSON, doing business as Olgon Chemical Co., Chicago, Ill.
Filed March 24, 1933. Serial No. 336,050. PUBLISHED MAY 30, 1933. Class 6.

305,801. LAXATIVE. JOHN C. STEINER, doing business as Pioneer Health Products, Milwaukee, Wis.
Filed March 27, 1933. Serial No. 336,167. PUBLISHED MAY 30, 1933. Class 6.

305,802. HOSIERY AND KNITTED AND TEXTILE UNDERWEAR FOR WOMEN AND CHILDREN—I. E., VESTS, BLOOMERS, PANTIES, KNICKERBOCKERS, UNION SUITS, COMBINATION UNDERWEAR, STEP-INS, CHEMISES, CORSET COVERS, CORSELETTES, NIGHT-GOWNS PAJAMAS, PETTICOATS, PRINCESS SLIPS, BANDEAUX, BANDEAUX CHEMISES, AND FOUNDATION GARMENTS; AND KNITTED AND TEXTILE UNDERWEAR FOR MEN—I. E., UNION SUITS, SHIRTS AND DRAWERS. VANITY FAIR SILK MILLS, Reading, Pa.
Filed March 29, 1933. Serial No. 336,198. PUBLISHED JUNE 13, 1933. Class 39.

305,803. MEN'S, WOMEN'S, AND CHILDREN'S LEATHER, FABRIC, AND RUBBER SHOES. STINE & GOLDMAN, Philadelphia, Pa.
Filed March 28, 1933. Serial No. 336,025. PUBLISHED MAY 30, 1933. Class 39.

305,804. RUBBER THREAD. UNITED STATES RUBBER PRODUCTS, INC., New York, N. Y.
Filed March 28, 1933. Serial No. 336,028. PUBLISHED MAY 23, 1933. Class 43.

305,805. CATAMENIAL RECEPTACLE. THE COREENE COMPANY, Cleveland, Ohio.
Filed March 24, 1933. Serial No. 336,033. PUBLISHED JUNE 6, 1933. Class 44.

305,806. WOOLEN AND WORSTED PIECE GOODS. G. GARNETT & SONS, LIMITED, Apperley Bridge, near Bradford, England.
Filed March 25, 1933. Serial No. 336,086. PUBLISHED JUNE 13, 1933. Class 42.

305,807. EMPTY TUBULAR MEDICINAL APPLICATORS MADE WHOLLY OR PARTIALLY OF GLASS, HARD RUBBER, OR OTHER COMPOSITION MATERIAL. JAMES HULME BUREMAN, doing business as The Stillman Company, Aurora, Ill.
Filed March 27, 1933. Serial No. 336,107. PUBLISHED JUNE 13, 1933. Class 44.

305,808. HOSIERY. BERKSHIRE KNITTING MILLS, Wyomissing and Reading, Pa.
Filed March 27, 1933. Serial No. 336,108. PUBLISHED MAY 23, 1933. Class 39.

305,809. HOSIERY. BERKSHIRE KNITTING MILLS, Wyomissing and Reading, Pa.
Filed March 27, 1933. Serial No. 336,109. PUBLISHED MAY 23, 1933. Class 39.

305,810. BAKING POWDER CONSTITUENTS PARTICULARLY ACID PHOSPHATES. GENERAL MILLS, INC., Minneapolis, Minn.
Filed March 27, 1933. Serial No. 336,146. PUBLISHED JUNE 13, 1933. Class 6.

306,811. WATER SOFTENING PREPARATION HAVING INCIDENTAL CLEANING PROPERTIES. H. & L. PRODUCTS COMPANY, Linden, N. J.
Filed March 28, 1933. Serial No. 336,157. PUBLISHED MAY 30, 1933. Class 6.

305,812. FIRE-EXTINGUISHING MATERIALS. PYRENE MANUFACTURING COMPANY, Newark, N. J.
Filed March 28, 1933. Serial No. 336,162. PUBLISHED MAY 30, 1933. Class 6.

305,813. LIQUID AND OINTMENT FOR PILES. HERBERT D. STAHL, doing business as Davis Laboratories, Pittsburgh, Pa.
Filed March 28, 1933. Serial No. 336,164. PUBLISHED MAY 30, 1933. Class 6.

305,814. MEDICAMENT USED IN THE TREATMENT OF SECONDARY ANEMIA. L. N. RENAULT & SONS, Inc., Egg Harbor City, N. J.
Filed March 27, 1933. Serial No. 336,130. PUBLISHED JUNE 6, 1933. Class 6.

305,815. WOMEN'S AND MISSES' SHOES OF LEATHER. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 27, 1933. Serial No. 336,185. PUBLISHED JUNE 13, 1933. Class 39.

305,816. WHISKY AND OTHER POTABLE DISTILLED LIQUORS. WINE & SPIRIT VAULTS LIMITED, doing business as Malcolm Fraser & Co., London, England.
Filed March 27, 1933. Serial No. 336,144. PUBLISHED JUNE 6, 1933. Class 49.

305,817. LEATHER AND FABRIC SHOES. LAZARUS FRIED & SONS INC., New York, N. Y.
Filed March 29, 1933. Serial No. 336,187. PUBLISHED MAY 30, 1933. Class 39.

305,818. BRASSIÈRES, CORSETS, GIRDLES, AND HOSIERY. GREENHILL & DANIEL, Inc., Brooklyn, N. Y.
Filed March 27, 1933. Serial No. 336,118. PUBLISHED JUNE 6, 1933. Class 39.

305,819. DRY, PASTE, AND READY-MIXED PAINTS AND VARNISHES. HALL HARDWARE COMPANY, Minneapolis, Minn.
Filed March 27, 1933. Serial No. 336,119. PUBLISHED JUNE 6, 1933. Class 16.

305,820. WORK CLOTHING—NAMELY, OVERALLS, MECHANICS' COATS AND ONE-PIECE WORK GARMENTS. THE H. D. LEE MERCANTILE CO., Kansas City, Mo.
Filed March 27, 1933. Serial No. 336,123. PUBLISHED JUNE 6, 1933. Class 39.

305,821. CURTAINS. BOOTT MILLS, Lowell, Mass.
Filed March 29, 1933. Serial No. 336,171. PUBLISHED JUNE 13, 1933. Class 42.

305,822. PERFUMES, TOILET WATERS, HAIR TONICS, ETC. NICHOLAS COSTOMENY, New York, N. Y., assignor to Genung and Leeney, Inc., a Corporation of New York.
Filed March 29, 1933. Serial No. 336,175. PUBLISHED MAY 30, 1933. Class 6.

305,823. GIRDLES, CORSETS, COMBINATION CORSET AND BRASSIÈRES, AND BRASSIÈRES. THE H. W. GOSSARD CO., Chicago, Ill.
Filed March 29, 1933. Serial No. 336,181. PUBLISHED MAY 30, 1933. Class 39.

305,824. ELASTIC WEBBING FOR USE IN MAKING GARMENTS. THE H. W. GOSSARD CO., Chicago, Ill.
Filed March 29, 1933. Serial No. 336,182. PUBLISHED MAY 30, 1933. Class 42.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

305,825. (CLASS 39. CLOTHING.) THE SERTON RUBBER COMPANY, Dayton, Ohio. Filed May 21, 1932. Serial No. 327,323.

Sturdee

For Rubber Soles for Shoes.
Claims use since Mar. 16, 1932.

305,826. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PROGRESSIVE KNITTED RAYON FABRIC MILLS, INC., Brooklyn, N. Y. Filed June 23, 1932. Serial No. 328,251.

STRATAKNIT

For Fabrics in the Piece consisting of Rayon, Cotton, Wool, and Silk, and Combinations Thereof.
Claims use since June 16, 1932.

305,827. (CLASS 39. CLOTHING.) WILMA SALON, INC., New York, N. Y. Filed July 25, 1932. Serial No. 329,070.

Ann Parker

For Ladies Outer Garments—Namely, Gowns, Wraps, Dresses, Coats, Suits, Jackets, Blouses and Hats; and for Undergarments—Namely, Brassières, Panties, Chemises, Step-In Underdrawers, and Slips.
Claims use since May 1, 1932.

305,828. (CLASS 39. CLOTHING.) VANITY FAIR SILK MILLS, Reading, Pa. Filed July 26, 1932. Serial No. 329,103.

OUR SPECIAL

For Hosiery.
Claims use since July 14, 1932.

305,829. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GERMANIA TEA COMPANY, Minneapolis, Minn. Filed Feb. 16, 1931. Serial No. 311,094.

GERMANIA

For Medicines—Namely, an Herb Tea for Causing the Organs to Eliminate.
Claims use since Jan. 1, 1926.

305,830. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES HULME BEARMAN, doing business as The Stillman Company, Aurora, Ill. Filed May 16, 1932. Serial No. 327,127.

Stillman's

For Douche Powder; Medicated, Antiseptic and Hygenic Jelly; and Antiseptic Hygenic Suppositories.
Claims use since May 21, 1931.

305,831. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ORVILLE SIMPSON COMPANY, Cincinnati, Ohio. Filed June 16, 1932. Serial No. 328,034.

TRU-CUT

For Bolting Cloth in the Piece.
Claims use since May 28, 1932.

305,832. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MOR-PAK PRESERVING CORPORATION, Stockton, Calif. Filed July 6, 1932. Serial No. 328,627.

DELHI

For Canned Fruits.
Claims use since June 20, 1932.

305,833. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MODISH SPECIALTIES, INC., New York, N. Y., assignor to Charles K. Thau, doing business as Laura Hair Novelty Co., New York, N. Y. Filed Sept. 16, 1931. Serial No. 319,118.

MODISH

For Combs, Barrettes, and Hairpins of Celluloid or Nonprecious Metals, etc.
Claims use since Oct. 10, 1930.

305,834. (CLASS 17. TOBACCO PRODUCTS.) GEORGE ZIFFERBLATT & CO., Philadelphia, Pa. Filed June 28, 1932. Serial No. 328,382.

The Willard

For Cigars.
Claims use since June, 1930.

305,835. (CLASS 39. CLOTHING.) THE MALLORY HAT COMPANY, Danbury Conn. Filed June 19, 1929. Serial No. 285,783.

Emerson

For Men's, Women's, and Children's Hats of Straw, and Men's and Boys' Caps of Fabric.
Claims use since 1898.

305,836. (CLASS 39. CLOTHING.) GIMBEL BROTHERS, INC., New York, N. Y. Filed May 10, 1933. Serial No. 338,002.

PHILBROOK, Jr.

For Boys' Clothing and Furnishings—Namely, Boys' Suits, Coats; Dress, Negligee, and Work Shirts; Underwear, and Shoes, Made of Leather, Rubber, and Fabric, and Combinations Thereof.
Claims use since Jan. 15, 1928.

305,837. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IRENE COSMETIC SHOPPE, New York, N. Y. Filed Mar. 28, 1933. Serial No. 336,163.

Barbara Winters

For Face Powder, Perfumes; Hair Preparations—Namely, Hair Rinses, and Hair Shampoos, and Hair Washes; and Other Cosmetics—Namely, Rouges, Lipstick, Cold Cream, Vanishing Cream, and Cleansing Cream.
Claims use since Oct. 15, 1931.

305,838. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) ERNST ZOBEL COMPANY, Brooklyn, N. Y. Filed Apr. 4, 1933. Serial No. 336,418.

ERNST ZOBEL COMPANY
HIGH
PITCH
TEST
BROOKLYN N.Y. U.S.A.

For Barrel Lining (Pitch).
Claims use since 1922.

305,839. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE HENKEL COMPANY, Fremont, Ohio. Filed May 12, 1933. Serial No. 337,745.

SHUR GRIP

For Tweezers, Forceps, Pliers, Hæmostats, Artery Clamps, Pinchers, and Tourniquets.
Claims use since September, 1931.

305,840. (CLASS 39. CLOTHING.) GIMBEL BROTHERS, INC., New York, N. Y. Filed May 19, 1933. Serial No. 338,001.

PHILBROOK

For Men's Clothing and Furnishings—Namely, Men's Suits, Coats; Dress, Negligee, and Work Shirts; Underwear, and Shoes, Made of Leather, Rubber, and Fabric, and Combinations Thereof.
Claims use since Jan. 15, 1928.

305,841. (CLASS 39. CLOTHING. SOCIETE A RESPONSABILITE LIMITEE GOUPY, Paris, France. Filed Jan. 20, 1933. Serial No. 334,165.

COLETTE GOUPY
10 Rue de Castiglione
PARIS

For Hats for Women, Misses, and Children, Including Berets and Bonnets of Fabric and of Fur, and Scarfs.
Claims use since June, 1926.

305,842. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) CENTRAL COAL CO. INC., New York, N. Y. Filed Jan. 26, 1933. Serial No. 334,347.

Leehi

For Coal.
Claims use since Jan. 10, 1930.

305,843. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAXWELL KEMPER WILLOUGHBY, doing business as Wave Your Own Co., Auburn, N. Y. Filed Feb. 20, 1933. Serial No. 335,148.

Wave Your Own

For Hair Curling Liquid for Human Hair.
Claims use since July 1, 1932.

305,844. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THEODORE H. SCHLEICHER, doing business as Kitchenette Food Products Company, Indianapolis, Ind. Filed Feb. 23, 1933. Serial No. 335,216.

Kooky-Roll

For Prepared Cooky Dough.
Claims use since Apr. 4, 1932.

305,845. (CLASS 39. CLOTHING.) JULIUS GROSSMAN, INC., Brooklyn, N. Y. Filed Feb. 27, 1933. Serial No. 335,317.

JULIUS
GROSSMAN
SMART SHOES
FOR COMFORT

For Shoes for Men and Women, Made of Leather, Fabric, and Rubber, and Combinations of These Materials.
Claims use since May, 1930.

305,846. (CLASS 39. CLOTHING.) WILLIAM KATZ, St. Louis, Mo. Filed Aug. 6, 1932. Serial No. 329,879.

Kool Krown

For Men's, Women's, and Boys' Hats.
Claims use since June 20, 1932.

305,847. (CLASS 39. CLOTHING.) THE STROUSE, ADLER COMPANY, New Haven, Conn. Filed Aug. 27, 1932. Serial No. 329,907.

REDI-SHRUNK

For Corsets, Corselettes, Girdles, and Other Forms of Foundation Garments.
Claims use since June 14, 1932.

305,848. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEONARD B. KRICK, doing business as Mador, Inc., Chicago, Ill. Filed Nov. 2, 1932. Serial No. 331,828.

MADOR

For Perfumes, Face Powder, Cleansing Cream, Foundation Cream, Nourishing Cream, and Tissue Cream; Astringent Lotion, Hand and Skin Lotion, and Honey-Almond Skin Lotion; Hair Tonic, Shampoo, Hair Dressing (Oil), Deodorants, Liquid Nail Polish, and Liquid Polish Remover; After-Shaving Lotion, Mouth Wash, Tooth Paste, Aspirin, Laxative Tablets, Rhinitis Tablets, Cough Syrup, and Paste and Liquid Antiseptics.

305,849. (CLASS 39. CLOTHING.) THE DAVIS COMPANY, Chicago, Ill. Filed Nov. 14, 1932. Serial No. 332,114.

DA-Frock

For Women's and Misses' Dresses.
Claims use since June 3, 1932.

TRADE-MARK REGISTRATIONS RENEWED

40,554. BEER, ALE, PORTER, STOUT, AND MALT EXTRACT. Registered June 9, 1903. THE KAMM & SCHELLINGER BREWING CO. Renewed June 9, 1933, to Kamm & Schellinger Company, Inc., Mishawaka, Ind., a Corporation of Indiana, assignee.

40,642. LAMPBLACK. Registered June 23, 1903. THE WEGELIN & WILCKES BLACK MFG. CO. Renewed June 23, 1933, to Wilckes, Martin, Wilckes Company, Camden, N. J., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

41,046. CERTAIN NAMED SOLUBLE RECEPTACLES. Registered September 1, 1903. JOHANN SCHMIDT, Nuremberg, Germany. Renewed September 1, 1933, by The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

41,667. CONDENSED MILK. Registered December 15, 1903. WISCONSIN CONDENSED MILK CO., Burlington, Wis., and New York, N. Y. Renewed December 15, 1933, to The Universal Milk Company, New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

91,631. SALVES FOR THE TREATMENT OF CERTAIN NAMED AFFLICTIONS, AND BLOOD PURIFIERS. Registered May 20, 1913. J. P. ALLEN MEDICINE CO. Renewed May 20, 1933, to Charles W. Allen, doing business as J. P. Allen Medicine Co., St. Paul, Minn., by decree of distribution.

92,488. CERTAIN NAMED CONSTRUCTION MATERIALS. Registered July 8, 1913. WARREN CHEMICAL & MANUFACTURING COMPANY. Renewed July 8, 1933, to The Barrett Company, New York, N. Y., a Corporation of New Jersey, successor.

92,489. CERTAIN NAMED CONSTRUCTION MATERIALS. Registered July 8, 1913. WARREN CHEMICAL & MANUFACTURING COMPANY. Renewed July 8, 1933, to The Barrett Company, New York, N. Y., a Corporation of New Jersey, successor.

92,490. SHEATHING AND ROOFING FELT. Registered July 8, 1913. WARREN CHEMICAL & MANUFACTURING COMPANY. Renewed July 8, 1933, to The Barrett Company, New York, N. Y., a Corporation of New Jersey, successor.

93,334. A MONTHLY PERIODICAL. Registered September 9, 1913. CHAMBER OF COMMERCE OF THE UNITED STATES OF AMERICA. Renewed September 9, 1933, to Chamber of Commerce of the United States of America, Washington, D. C., a Corporation of the District of Columbia, successor.

93,894. OVERALLS, TROUSERS, AND SHIRTS. Registered October 21, 1913. NIAGARA OVERALL & PANTS CO. Renewed October 21, 1933, to Niagara Apparel Co. Inc., Buffalo, N. Y., a Corporation of New York, successor.

94,135. ASPHALT-MASTIC. Registered November 4, 1913. WARREN CHEMICAL & MANUFACTURING COMPANY. Renewed November 4, 1933, to The Barrett Company, New York, N. Y., a Corporation of New Jersey, successor.

94,501. A NEWSPAPER-SECTION PUBLISHED PERIODICALLY. Registered December 9, 1913. STAR COMPANY. Renewed December 9, 1933, to King Features Syndicate, Inc., New York, N. Y., a Corporation of New York, assignee.

94,518. A BEER-COLORING. Registered December 9, 1913. EMKEN CHEMICAL CO., New York, N. Y. Renewed December 9, 1933, to D. D. Williamson & Company, Inc., Long Island City, N. Y., a Corporation of New York, successor.

94,607. THREAD AND YARN MADE OF CERTAIN MATERIALS AND COMBINATIONS THEREOF. Registered December 23, 1913. COURTLANDS, LIMITED, London, England, a Corporation of Great Britain. Renewed December 23, 1933.

LABELS

REGISTERED AUGUST 22, 1933

42,556.—*Title:* SPEEDWAY HATS. For Hats. ARKIN HAT CORPORATION, New York, N. Y. Published June 22, 1933.

42,557.—*Title:* ATLAS SPECIAL. For Beer. ATLAS BREWING COMPANY, Chicago, Ill. Published May 1, 1933.

42,558.—*Title:* SHUR-GOOD. For Sauer Kraut. THE BELLEVUE KRAUT & PICKLING COMPANY, Bellevue, Ohio. Published April 1, 1933.

42,559.—*Title:* JUNIOR MATES SHOES FOR CHILDREN. For Shoes. BIRD & SON, INC., East Walpole, Mass. Published July 6, 1933.

42,560.—*Title:* BROCKELMAN GOLD BOND BUTTER. For Butter. BROCKELMAN BROS. INC., Worcester, Mass. Published June 6, 1933.

42,561.—*Title:* 10,000 CROFOOT NO. 1 STAPLES. For Staples. J. B. CROFOOT CO., Mount Prospect, Ill. Published June 10, 1933.

42,562.—*Title:* ALICE DWIGHT. For Marmalade. MRS. ALICE H. DRURY, Northampton, Mass. Published June 2, 1933.

42,563.—*Title:* SELECTED COFFEE. For Coffee. DWINELL-WRIGHT COMPANY, Boston, Mass. Published July 5, 1933.

42,564.—*Title:* QUALITY. For Coffee. DWINELL-WRIGHT COMPANY, Boston, Mass. Published July 14, 1933.

42,565.—*Title:* FORGET-ME-NOT. For Ice Cream Bars. EMBLEM FOOD PRODUCTS CORPORATION, Milwaukee, Wis. Published February 1, 1933.

42,566.—*Title:* HOT-CHA. For Chili Con Carne. FOELL PACKING COMPANY, Chicago, Ill. Published March 1, 1933.

42,567.—*Title:* MASCOT. For Dog Food. FOELL PACKING COMPANY, doing business as Mascot Packing Co., Chicago, Ill. Published April 21, 1933.

42,568.—*Title:* SOFTASILK. For Cake Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published June 30, 1933.

42,569.—*Title:* GLOBE BEER. For Beer. GLOBE BREWING CO., San Francisco, Calif. Published May 25, 1933.

42,570.—*Title:* HAHN'S BAVARIAN STYLE BREW. For Lager Beer. PAUL HAHN, doing business as Goenner and Company, Johnstown, Pa. Published June 20, 1933.

42,571.—*Title:* BRAUMEISTER. For Lager Beer. INDEPENDENT MILWAUKEE BREWERY, Milwaukee, Wis. Published June 27, 1933.

42,572.—*Title:* WAUKESHA. For Canned Green Peas. THE J. B. INDERRIEDEN CO., Chicago, Ill. Published July 21, 1933.

42,573.—*Title:* MOLDED-FIT. For Swimming Suits. JANTZEN KNITTING MILLS, Portland, Oreg. Published March 20, 1933.

42,574.—*Title:* BLUE JEWEL PEANUT BUTTER. For Peanut Butter. JEWEL FOOD STORES, INC., Woodbury, N. Y., and Chicago, Ill. Published November 1, 1932.

42,575.—*Title:* BLUE BROOK COFFEE. For Coffee. JEWEL FOOD STORES, INC., Woodbury, N. Y., and Chicago, Ill. Published August 15, 1932.

42,576.—*Title:* BLUE BROOK SLICED BACON. For Bacon. JEWEL FOOD STORES, INC., Woodbury, N. Y., and Chicago, Ill. Published August 15, 1932.

42,577.—*Title:* ROYAL JEWEL CANADIAN BACK BACON. For Bacon. JEWEL FOOD STORES, INC., Woodbury, N. Y., and Chicago, Ill. Published August 20, 1932.

42,578.—*Title:* BLUE JEWEL BREAKFAST BACON. For Bacon. JEWEL FOOD STORES, INC., Woodbury, N. Y., and Chicago, Ill. Published November 21, 1932.

42,579.—*Title:* BLUE BROOK OLEOMARGARINE. For Margarine. JEWEL FOOD STORES, INC., Chicago, Ill. Published August 1, 1932.

42,580.—*Title:* WHITE KING. For Granulated Soap. LOS ANGELES SOAP CO., Los Angeles, Calif. Published May 23, 1933.

42,581.—*Title:* SERIOUS THOUGHT ABOUT ICE CREAM. For Ice Cream. A. E. MAC ADAM & CO. INC., Brooklyn, N. Y. Published May 12, 1933.

42,582.—*Title:* COBB'S WHEATIE BREAD. For Bread. THE MENASHA PRODUCTS COMPANY, Menasha, Wis. Published June 14, 1933.

42,583.—*Title:* RING-PRUF. For Hosiery. MERIT ASSOCIATED HOSIERY MILLS, INC., New York, N. Y. Published April 27, 1933.

42,584.—*Title:* DR. ERNEST'S DIGESTA—LIQUID AND TABLETS. For Preparations in Liquid and Tablet Form for the Relief of Digestive Disturbances and Stomachic Disorders. ERNEST G. RUHUP, doing business as Scientific Laboratories of America, San Francisco, Calif. Published December 1, 1931.

42,585.—*Title:* RE-DUCE-OIDS—CAPSULES FOR REDUCING FORMS OF FAT AND SUPERFLUOUS WEIGHT. For Preparations in Capsule Form for the Reduction of Weight. ERNEST G. RUHUP, doing business as Scientific Laboratories of American, San Francisco, Calif. Published December 1, 1931.

42,586.—*Title:* ONE READY-TO-MAKE RY-LOCK WINDOW SCREEN. For Ready-to-Make Window Screens. RY-LOCK COMPANY, LTD., San Leandro, Calif. Published May 1, 1933.

42,587.—*Title:* DOVOL. For Peroxide. SCHUYLKILL CHEMICAL COMPANY, Philadelphia, Pa. Published April 14, 1933.

42,588.—*Title:* SHAW AUTOMOBILE 12,000 MILE PREPAID LUBRICATION RECORD. For Automobile Lubrication Records. A. C. SHAW, Palo Alto, Calif. Published March 13, 1933.

42,589.—*Title:* MANIKIN TEA, FOR A FASHIONABLE FIGURE. For Tea in the Nature of a Herbaceous Laxative. MADELINE SILBERMAN, doing business as Manikin Products, New York, N. Y. Published May 15, 1933.

42,590.—*Title:* HEARST RANCH. For Sliced Peaches. SUNICAL PACKING COMPANY, San Francisco, Calif. Published June 6, 1933.

42,591.—*Title:* BOR-ZO-PHEN. For Medical Preparation for the Dressing of Wounds and Skin Infections. ULMER PHARMACAL COMPANY, Minneapolis, Minn. Published June 15, 1933.

42,592.—*Title:* BORO-JEL. For Medical Preparation for the Lubrication of Surgical Instruments. ULMER PHARMACAL COMPANY, Minneapolis, Minn. Published June 15, 1933.

42,593.—*Title:* CAL-ZO. For Medical Preparation for the Treatment of Varicose and Other Stubborn Ulcers. ULMER PHARMACAL COMPANY, Minneapolis, Minn. Published June 15, 1933.

42,594.—*Title:* PICRO-BENZYL. For Medical Preparation for the Treatment of Burns. ULMER PHARMACAL COMPANY, Minneapolis, Minn. Published June 15, 1933.

42,595.—*Title:* JIFFY JOTS TABLET. For Tablets. WHITE & WYCKOFF MFG. CO., Holyoke and Riverside, Holyoke, Mass. Published May 15, 1933.

42,596.—*Title:* WORLD'S BIGGEST LITTLE TABLET. For Tablets. WHITE & WYCKOFF MFG. CO., Holyoke and Riverside, Holyoke, Mass. Published May 15, 1933.

PRINTS

REGISTERED AUGUST 22, 1933

14,303.—*Title:* MAGIC CHEF. For Gas Ranges. AMERICAN STOVE COMPANY, Cleveland, Ohio. Published March 27, 1933.

14,304.—*Title:* MASTERMIXT MAYONNAISE. For Mayonnaise Dressing. JOHN E. CAIN, Jamaica Plain, Boston, Mass. Published May 5, 1933.

14,305.—*Title:* TO A BOTTLE OF 'J. F.' For Whisky. JAMES FERGUSON & SONS (GLASGOW) LIMITED, Glasgow, Scotland. Published July 24, 1933.

14,306.—*Title:* GLORETTE GRAPHS. For Gloves. GLORETTE ASSOCIATES, New York, N. Y. Published June 12, 1933.

14,307.—*Title:* DRINK MY DEAR ONLY PILSENHOF BEER. For Beer. MAX. KIRCHMAN, Cicero, Ill. Published June 23, 1933.

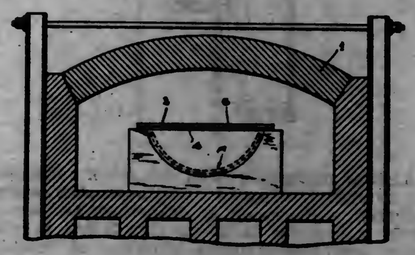
14,308.—*Title:* PABST BLUE RIBBON THE BEER OF QUALITY. For Beer. PREMIER-PABST CORPORATION, Peoria Heights, Ill. Published April 16, 1933.

REISSUES

AUGUST 22, 1933

18,918
PROCESS OF MAKING CURVED COMPOSITE GLASS PLATES

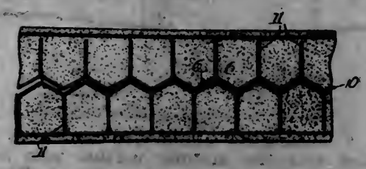
James H. Sherts, Brackenridge, and John Willits, Ford City, Pa., assignors to Duplate Corporation, a Corporation of Delaware
Original No. 1,815,992, dated July 28, 1931, Serial No. 446,262, April 24, 1930. Application for reissue May 22, 1933. Serial No. 672,220
3 Claims. (Cl. 49—81)



3. A process of making curved composite glass plates, which consists in supporting the two glass sheets which are to form the plate one above the other above a curved mold, applying heat sufficient to make the sheets plastic but not sufficient to make them stick together, causing them to bend and fit the mold, assembling the sheets as thus bent with an interposed sheet of flexible reinforcing material, and securing the sheets as thus assembled together.

18,919
ROOFING PRODUCT

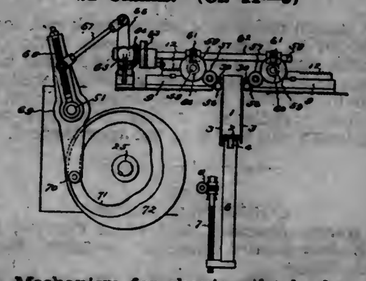
Robert B. Levis, Chicago, Ill., assignor to Bird & Son, Inc., East Walpole, Mass., a Corporation of Massachusetts
Original No. 1,778,903, dated October 21, 1930, Serial No. 244,331, January 3, 1928. Application for reissue September 10, 1932. Serial No. 632,623
4 Claims. (Cl. 108—7)



4. As an article of manufacture, a strip of prepared roofing bearing on the surface thereof, a pattern composed of stripes of a waterproof material of contrasting color and cut longitudinally along at least some of the pattern lines in register with the latter to provide therefrom roofing elements, the said waterproof material protecting and substantially covering the edges of the elements exposed by the cut.

18,920
MACHINE FOR SHAPING THE BACKS OF UNBOUND BOOKS

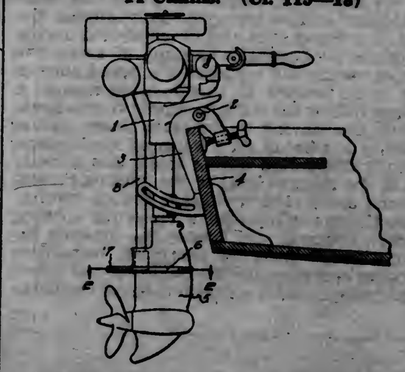
Carl Schramm, North Coventry, Conn., assignor to The Smyth Manufacturing Company, Hartford, Conn., a Corporation of Connecticut
Original No. 1,864,557, dated June 28, 1932, Serial No. 592,483, February 12, 1932. Application for reissue May 31, 1933. Serial No. 673,744
21 Claims. (Cl. 11—5)



20. Mechanism for shaping the backs of unbound books which comprises means for supporting the books, means for sustaining the books in a vertical position with their backs up, means movable against the backs of the books while thus sustained for leveling the backs into initial shape, and rolls mounted to turn against the sides of the books and by their pressure and rotation cause a rounding of the book backs.

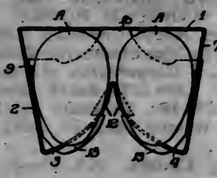
18,921
ANTICAVITATION PLATE FOR OUTBOARD MOTORS

Don W. King and Arthur L. Lockwood, Jackson, Mich., assignors, by mesne assignments, to Outboard Motors Corporation, Detroit, Mich., a Corporation of Michigan
Original No. 1,734,911, dated November 5, 1929, Serial No. 290,906, July 5, 1928. Application for reissue November 2, 1931. Serial No. 572,708
14 Claims. (Cl. 115—18)



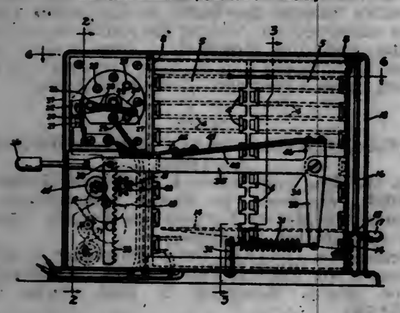
1. In an outboard motor construction, an anticavitation plate adapted for submersion, a mouth in said plate, and an exhaust pipe from said motor connected to said mouth.

18,922
CUSHIONED CARTON
Felix Troyk, Morris, Ill., assignor to Self Locking Carton Company, a Corporation of Illinois
Original No. 1,766,155, dated June 24, 1930, Serial No. 227,225, June 21, 1923. Application for reissue May 6, 1932. Serial No. 609,740
12 Claims. (Cl. 229—39)



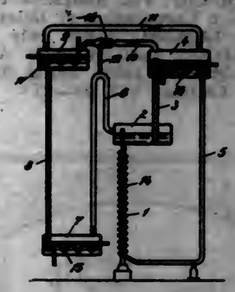
8. A carton made of a single blank cut, scored and folded to form front and rear walls, cross partitions hinged to said walls and having hooks on their lower portion, and a bottom wall suspended in inverted V-shape from the hooks on said cross partitions, the legs of said V being spaced below and joined at the apex thereof.

18,923
COOKING UTENSIL
Jesse Harris, deceased, late of La Fayette, Ind., by Waters-Genter Company, assignee, Minneapolis, Minn.
Original No. 1,843,712, dated March 8, 1932, Serial No. 373,770, June 26, 1929. Application for reissue April 10, 1933. Serial No. 665,466
11 Claims. (Cl. 200—138)



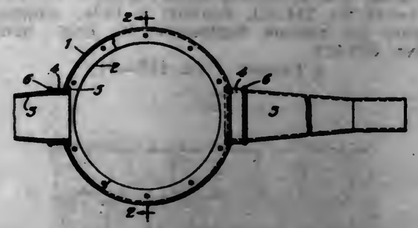
5. In an automatic bread toaster having electrical heating means energized only during the toasting of a bread slice and de-energized during the intervals between the toasting of successive slices, and means for supporting a bread slice in position to be toasted by said heating means; a switch controlling the current supply to the heating means and having its contacts closed during the toasting of a bread slice, a timing mechanism, a thermally responsive device freely and directly subject to the radiant heat of the heating means, and means associated with said timing mechanism and thermally responsive device for opening said switch contacts and timing the toasting interval of a bread slice, the thermally responsive device being operative to vary said toasting interval in accordance with variations in its temperature.

18,924
ABSORPTION METHOD AND APPARATUS
Edmund Altenkirch, Frederstdorf, near Alt-Landsberg (Ostbahn), Germany, assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio, a Corporation of Ohio
Original No. 1,615,253, dated January 25, 1927, Serial No. 7,696, February 7, 1925, and in Germany February 14, 1924. Application for reissue July 20, 1927. Serial No. 207,281
17 Claims. (Cl. 62—119.5)



6. That improvement in the art of refrigerating through the agency of an absorption system including a generator, an evaporator and an absorber connected to afford circulation between them and containing a plurality of complementary diffusing agencies in the evaporator which consists in creating a liquid column pressure head within the system, producing circulation between the generator and absorber due to said head and circulating said plurality of agencies into and out of the evaporator.

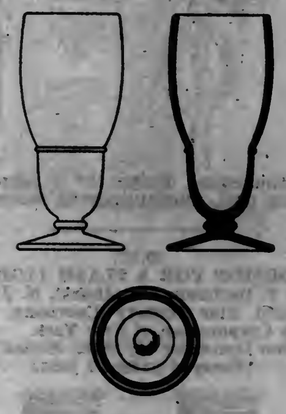
18,925
MANUFACTURE OF HOUSINGS AND THE LIKE
Thomas E. Murray, Jr., Brooklyn, N. Y., assignor to Metropolitan Engineering Company, a Corporation of New York
Original No. 1,569,232, dated January 12, 1926, Serial No. 503,232, October 17, 1921. Application for reissue January 5, 1928. Serial No. 244,754
3 Claims. (Cl. 74—56)



1. A housing for automobile rear axles comprising a central annular portion with inward flanges at its edges and with diametrically opposite openings surrounded by outward flanges, and tubes having inner end portions abutting against and fastened to said outward flanges.

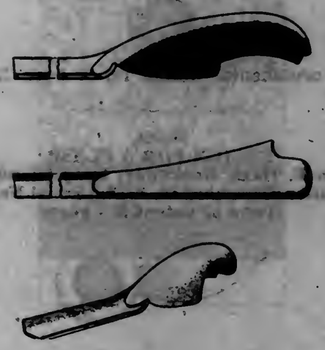
DESIGNS
AUGUST 22, 1933

90,520
DESIGN FOR A GOBLET
Joseph O. Arduser, Kokomo, Ind., assignor to D. C. Jenkins Glass Company, Kokomo, Ind., a Corporation
Application June 5, 1933. Serial No. 43,274
Term of patent 7 years



The ornamental design for a goblet, as shown and described.

90,521
DESIGN FOR A COMBINED AUTOMOBILE FRONT FENDER AND RUNNING BOARD
McClelland Barclay, Los Angeles, Calif.
Application June 20, 1932. Serial No. 44,133
Term of patent 7 years



The ornamental design for a combined automobile front fender and running board, as shown.

90,522
DESIGN FOR A SIGN
Alexander E. Blumenthal, Pittsburgh, Pa.
Application June 14, 1933. Serial No. 43,393
Term of patent 7 years



The ornamental design for a sign substantially as shown.

90,523
DESIGN FOR A DISPLAY REEL FOR STRIP MATERIAL
Otto A. Boesel, Ansonia, Conn., assignor to The H. A. Matthews Manufacturing Company, Seymour, Conn., a Corporation
Application June 14, 1933. Serial No. 43,396
Term of patent 7 years



The ornamental design for a display reel for strip material as shown.

90,524
DESIGN FOR A MERCHANT'S TRADING STAMP
David J. Bolton, Monterey, Calif., assignor to Theatre Scriptstamp Corporation of America, San Francisco, Calif., a Corporation of California
Application April 14, 1933. Serial No. 47,786
Term of patent 14 years



The ornamental design for a merchant's trading stamp substantially as shown.

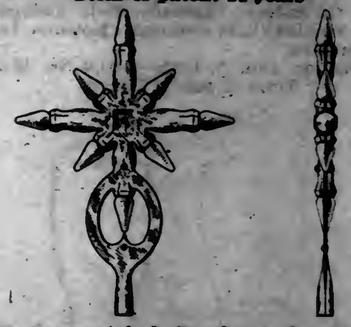
90,525
DESIGN FOR A WINDOW CURTAIN TIE-BACK
Ethel P. Brewer, Wayne, N. J.
Application May 29, 1933. Serial No. 48,238
Term of patent 3½ years





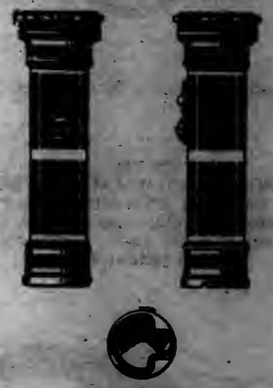
The ornamental design for a window curtain tie-back, as shown.

90,526
DESIGN FOR A DECORATIVE ILLUMINATING UNIT
Henry M. Rosendal Dam, Floral Park, Long Island, N. Y., assignor to Noma Electric Corporation, New York, N. Y., a Corporation of New York
Application November 3, 1932. Serial No. 45,721
Term of patent 14 years



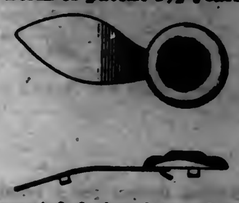
The ornamental design for a decorative illuminating unit, substantially as shown.

90,527
DESIGN FOR A FLASH LIGHT
Anthony J. Desimone, Lyndhurst, N. J., assignor to Bright Star Battery Company, Hoboken, N. J., a Corporation of New York
Application December 30, 1932. Serial No. 46,662
Term of patent 7 years



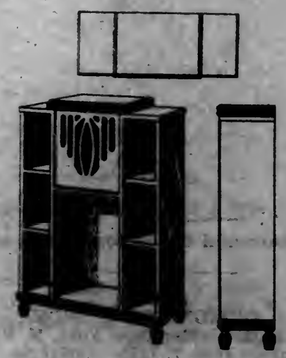
The ornamental design for a flash light as shown.

90,528
DESIGN FOR A CLASP
William F. Haas, Rockaway, Long Island, N. Y.
Application December 19, 1932. Serial No. 46,520
Term of patent 3½ years



The ornamental design for a clasp, as shown.

90,529
DESIGN FOR A COMBINATION RADIO-CABINET AND BOOKCASE
Martin Hansen, Chicago, Ill.
Application June 13, 1933. Serial No. 48,386
Term of patent 3½ years



The ornamental design for a combination radiocabinet and bookcase, as shown.

90,530
DESIGN FOR A TEXTILE FABRIC
Ernest A. Harrell, New York, N. Y., assignor to Levin-Forman Corporation, New York, N. Y., a Corporation of New York
Application June 15, 1933. Serial No. 48,404
Term of patent 3½ years



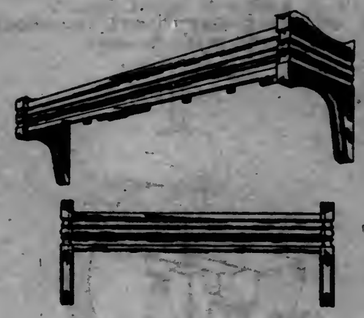
The ornamental design for a textile fabric, substantially as shown and described.

90,531
DESIGN FOR AN ASH TRAY
David A. Jacobs, Cleveland, Ohio, assignor to The Safe-Out Ash Tray Company, Cleveland, Ohio, a Corporation of Ohio
Application June 7, 1933. Serial No. 48,267
Term of patent 3½ years



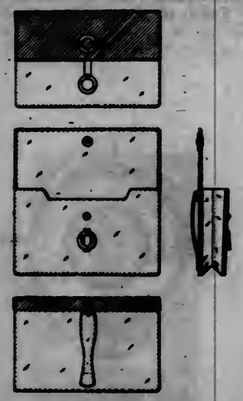
The ornamental design for an ash tray substantially as shown.

90,532
DESIGN FOR A CORNICE CURTAIN POLE
Charles W. Kirsch, Sturgis, Mich.
Application January 2, 1932. Serial No. 42,346
Term of patent 7 years



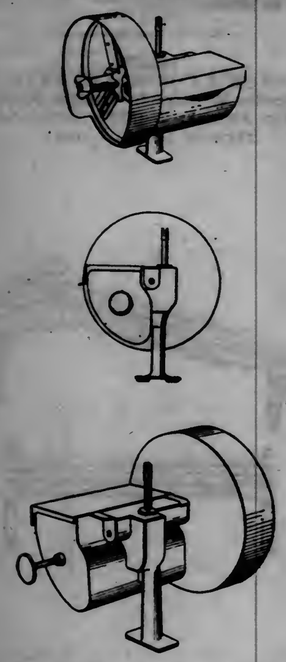
The ornamental design for a cornice curtain pole as shown.

90,533
DESIGN FOR A HAND BAG
Rudolph Lebel, Brooklyn, N. Y.
Application December 22, 1932. Serial No. 46,561
Term of patent 3½ years



The ornamental design for a hand bag, as shown and described.

90,534
DESIGN FOR A COMBINED SLICER AND SHREDDER
Michael W. McArdle and Ivar Jeppesen, Chicago, Ill., assignors to Chicago Flexible Shaft Company, Chicago, Ill., a Corporation of Illinois
Application June 5, 1933. Serial No. 48,289
Term of patent 7 years



The ornamental design for a combined slicer and shredder, substantially as shown.

90,535
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,311
Term of patent 3½ years



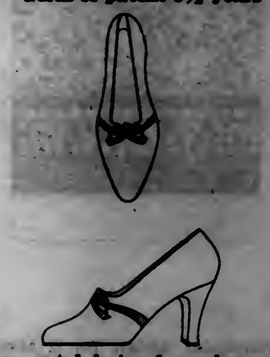
The ornamental design for a shoe, as shown.

90,536
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,313
Term of patent 3½ years



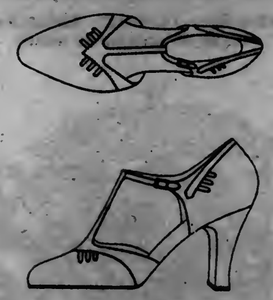
The ornamental design for a shoe, as shown.

90,537
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,315
Term of patent 3½ years



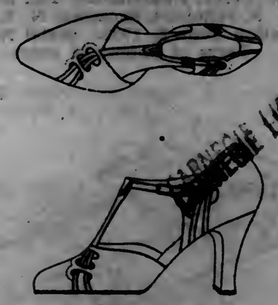
The ornamental design for a shoe, as shown.

90,538
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,316
Term of patent 3½ years



The ornamental design for a shoe, as shown.

90,539
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,318
Term of patent 3½ years



The ornamental design for a shoe, as shown.

90,540
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,320
Term of patent 3½ years



The ornamental design for a shoe, as shown.

90,541
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,325
Term of patent 3½ years



The ornamental design for a shoe, as shown.

90,542
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,329
Term of patent 3½ years



The ornamental design for a shoe, as shown.

90,543
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,324
Term of patent 3½ years



The ornamental design for a shoe, as shown.

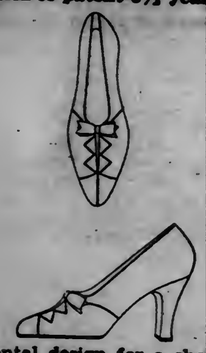
CARNEGIE LIBRARY OF ATLANTA

90,544
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,336
Term of patent 3½ years



The ornamental design for a shoe, as shown.

90,545
DESIGN FOR A SHOE
Charles Miller, New York, N. Y.
Application June 7, 1933. Serial No. 48,340
Term of patent 3½ years



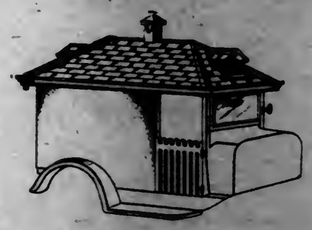
The ornamental design for a shoe, as shown.

90,546
DESIGN FOR A COMBINED ADVERTISING AND CALENDAR SUPPORT
Carlyle N. Montanye, Baltimore, Md.
Application June 8, 1933. Serial No. 48,352
Term of patent 7 years



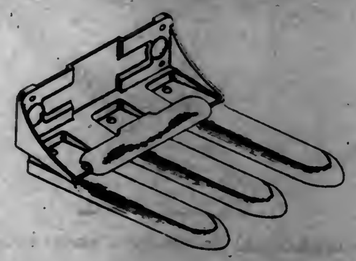
The ornamental design for a combined advertising and calendar support, as shown.

90,547
DESIGN FOR AN AUTOMOBILE TRUCK BODY
Nick Papas, Corona, N. Y., assignor to Alpine Ice Cream Co. Inc., a Corporation of New York
Application May 13, 1933. Serial No. 48,114
Term of patent 14 years



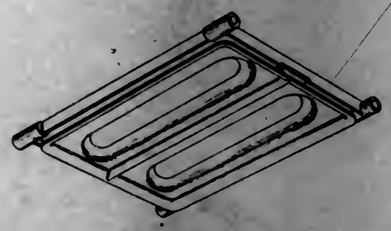
The ornamental design for an automobile truck body, as shown and described.

90,548
DESIGN FOR A SHOE RACK OR SIMILAR ARTICLE
Harold R. Perry, Swarthmore, Pa., and Chester S. Jennings, Syracuse, N. Y.
Application June 8, 1933. Serial No. 48,345
Term of patent 14 years



The ornamental design for a shoe rack or similar article substantially as shown.

90,549
DESIGN FOR A SHOE RACK OR SIMILAR ARTICLE
Harold R. Perry, Swarthmore, Pa., and Chester S. Jennings, Syracuse, N. Y.
Application June 8, 1933. Serial No. 48,346
Term of patent 14 years



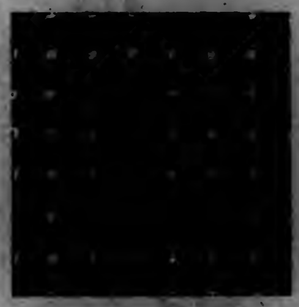
The ornamental design for a shoe rack or similar article substantially as shown.

90,550
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Gustav M. Pulitzer, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application July 22, 1933. Serial No. 48,791
Term of patent 3½ years



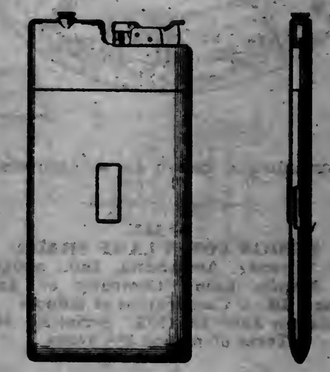
The ornamental design for a textile fabric or similar article as shown.

90,551
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Gustav M. Pulitzer, New York, N. Y., assignor to Goldstein-Wilkins Corporation, New York, N. Y.
Application July 22, 1933. Serial No. 48,792
Term of patent 3½ years



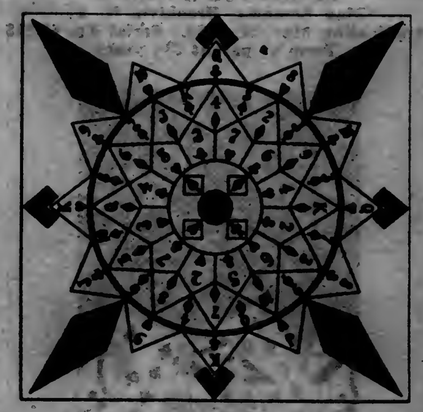
The ornamental design for a textile fabric or similar article as shown.

90,552
DESIGN FOR A COMBINED CIGARETTE CASE AND LIGHTER
Alfred F. Reilly, North Attleboro, Mass., assignor to Evans Case Company, North Attleboro, Mass., a Corporation of Massachusetts
Application June 26, 1933. Serial No. 48,538
Term of patent 7 years



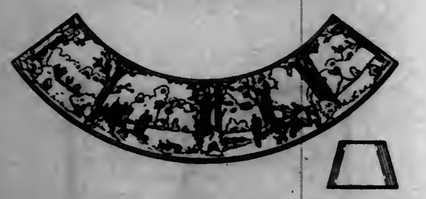
The ornamental design for a combined cigarette case and lighter as shown.

90,553
DESIGN FOR A GAME BOARD
Hyman Schwartz, New York, N. Y.
Application June 2, 1933. Serial No. 48,259
Term of patent 7 years



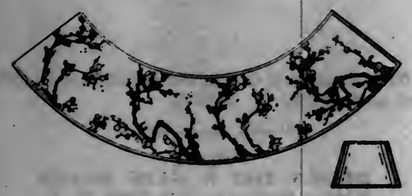
The ornamental design for a game board or similar article, as shown and described.

90,554
DESIGN FOR A LAMP SHADE
Eugene Schwarz, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a Corporation of Illinois
Application June 19, 1933. Serial No. 48,456
Term of patent 3½ years



The ornamental design for a lamp shade, as shown.

90,555
DESIGN FOR A LAMP SHADE
Eugene Schwarz, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a Corporation of Illinois
Application June 19, 1933. Serial No. 48,457
Term of patent 3½ years



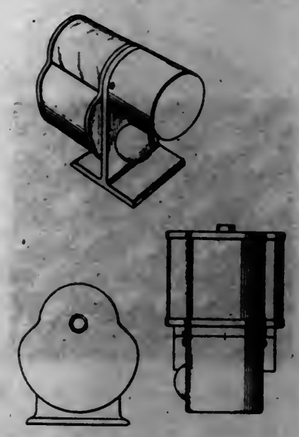
The ornamental design for a lamp shade, as shown.

90,556
DESIGN FOR A FABRIC
Max Semaria, Brooklyn, N. Y.
Application May 26, 1933. Serial No. 48,218
Term of patent 3½ years



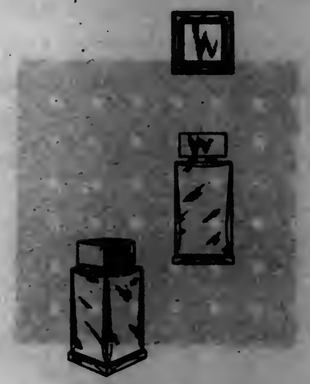
The ornamental design for a fabric as shown and described.

90,557
DESIGN FOR A PENCIL SHARPENER
Carl A. E. Teipe, Chicago, Ill.
Application June 5, 1933. Serial No. 48,382
Term of patent 3½ years



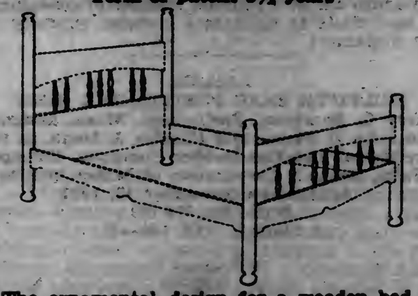
The ornamental design for a pencil sharpener, as shown.

90,558
DESIGN FOR A PERFUME BOTTLE
René Tricard, Paris, France, assignor to Lentheric Incorporated, New York, N. Y., a Corporation of New York
Application May 12, 1933. Serial No. 48,087
Term of patent 14 years



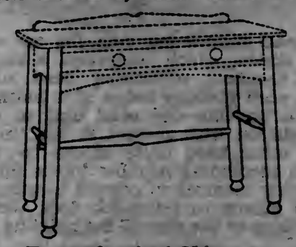
The ornamental design for a perfume bottle substantially as shown.

90,559
DESIGN FOR A WOODEN BED
George L. Youngs and James L. Angle, Grand Rapids, Mich., assignors to Stickley Brothers Company, Grand Rapids, Mich., a Corporation of Michigan
Application March 5, 1933. Serial No. 43,097
Term of patent 3½ years



The ornamental design for a wooden bed as shown and described.

90,560
DESIGN FOR A WOODEN DESK
George L. Youngs and James L. Angle, Grand Rapids, Mich., assignors to Stickley Brothers Company, Grand Rapids, Mich., a Corporation of Michigan
Application March 5, 1933. Serial No. 43,099



Term of patent 3½ years
The ornamental design for a wooden desk as shown and described.

90,561
DESIGN FOR A FLOOR LAMP BASE HOLDER
Louis L. Withey, Rome, N. Y.
Application June 8, 1933. Serial No. 48,351
Term of patent 14 years

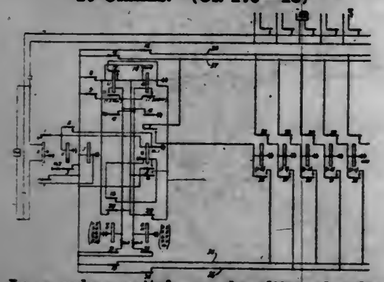


The ornamental design for a floor lamp base holder as shown.

PATENTS

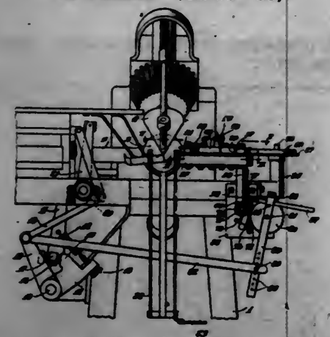
GRANTED AUGUST 22, 1933

1,923,060
COUNTING-RELAY SWITCH
Fritz Appelius, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk Siemensstadt near Berlin, Germany
Application February 29, 1932, Serial No. 595,716, and in Germany March 7, 1931
10 Claims. (Cl. 179—18)
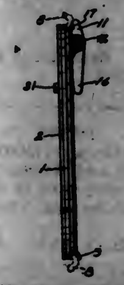


1. In a relay switch, a plurality of selecting relays, two groups of alternately operated auxiliary relays associated with said selecting relays, means controlled by the first group of auxiliary relays for energizing said selecting relays, and means controlled by the other group of auxiliary relays for maintaining the selecting relays energized.

1,923,061
COUNTER FOR CUP MACHINES
Rudolph Bares and Andrew C. Wood, Chicago, Ill., assignors to Vortex Cup Company, Chicago, Ill., a Corporation of Delaware
Application September 18, 1931
Serial No. 563,502
28 Claims. (Cl. 93—36)



1. The combination with a container receiving chute, of a machine for delivering containers thereto, a counter mechanism, means connected for operation from the machine adapted to actuate the counter mechanism each time a container is delivered by the machine into said chute, an indicating spacer forming means connected to be operated from the counter mechanism, an indicating spacer delivering means connected to be wound up by the counter mechanism, and control means operable by the counter mechanism for releasing the delivery means at a predetermined time allowing the same to unwind and engage an indicating spacer and deliver the same into one of a counted number of containers in said chute to indicate a counted quantity of the containers.

1,923,062
MULTIPLE BEAD POSITIONING RING
Harry C. Bearman, Springfield, Mass., assignor to John B. Pierce and Charles A. Dana, as receivers of The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts
Application November 12, 1931
Serial No. 574,789
4 Claims. (Cl. 154—9)



1. A bead positioning ring for use with tire building drums which comprises, a plurality of annular members presenting bead supporting surfaces, each member being of a width and diameter to position one bead unit in predetermined relation with respect to the tire carcass and the other bead units, means to releasably lock each succeeding member to the immediately preceding member in coaxial assembled relation and means to releasably lock the first of said members to the edge of the building drum.

1,923,063
RECEPTACLE COVER AND MOUNTING STRUCTURE
Herbert G. Bergstrom and George B. Martin, Des Moines, Iowa, assignors to The Hargrove Company, Des Moines, Iowa, a Corporation of Iowa
Application March 16, 1931. Serial No. 523,042
1 Claim. (Cl. 217—67)



A cover and hinge structure adapted for use with a receptacle, and comprising a cover having down-turned flanges at its front and rear edges, hinged means comprising a bar at each end of the cover pivoted to the end thereof adjacent the rear edge and adapted to be pivoted to the receptacle and to stand in vertical position when the cover is closed, a bar pivoted to each end of the cover adjacent its front edge, and adapted to be pivoted to the receptacle and to be inclined rearwardly and downwardly when the cover is closed at a pivot point such that when the cover

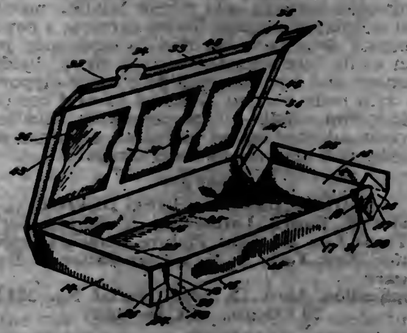
is swung to open position, the down-turned member on the cover will swing in a path so that it will engage the rear upper edge of the receptacle.

1,923,064
RECORD-KEEPING DEVICE
Martin L. Brachan, New York, N. Y.
Application May 28, 1926. Serial No. 112,249
4 Claims. (Cl. 129—16.7)



1. In record-keeping devices, a leaf-separating device, adapted to be positioned between a pair of record leaves one back of the other, and comprising a sheet of material adapted to lie flat between the record leaves with a depressible tab at one edge and a flexible portion adapted to lie between the leaves, the sheet being so shaped that finger-pressure on said tab will cause lateral flexure of said flexible portion, to separate the adjacent record leaves.

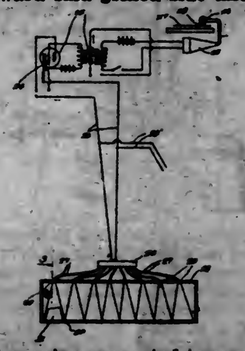
1,923,065
FOLDABLE CONTAINER AND BLANK THEREFOR
John Andrew Clemens, Providence, R. I., assignor to Davol Rubber Company, a Corporation of Rhode Island
Application December 17, 1931
Serial No. 581,629
13 Claims. (Cl. 229—36)



1. In a container folded from a blank, a base having a rear strip, a front strip having slots adjacent the ends thereof, and side strips, the juncture of said base and front strip having spaced slots, each side strip having a rear tab, a side tab, and a front tab, said front tabs each having a lock tooth engageable with the adjacent front strip slot, the side tab being adapted to seat on the upper edges of the rear tab and the front tab and front strip when in assembled position, a top hinged to said rear strip and adapted to seat over said side tabs, and spaced tabs on said top adapted to engage said spaced slots.

1,923,066
SOUND AMPLIFYING AND CONDUCTING MECHANISM
Arthur D. Cordas, Chicago, Ill.
Application November 6, 1926. Serial No. 146,825
1 Claim. (Cl. 181—27)

Sound-distributing apparatus comprising a housing including a grilled side and a side opposite the grilled side having spaced openings provided therein, a coupling in each of said openings, a plurality of amplifying horns in the housing opening toward said grilled side and each having an inlet opening connected to one of said couplings, a reproducing unit having a plurality of outlet openings, and a plurality of conduits connecting the outlet openings of said reproducing unit with said couplings.



1,923,067
TABLE
Gustave F. Cordman, Chicago, Ill., assignor to Cordman Manufacturing Company, Chicago, Ill., a Corporation of Illinois
Application September 28, 1931
Serial No. 565,662
12 Claims. (Cl. 45—31)

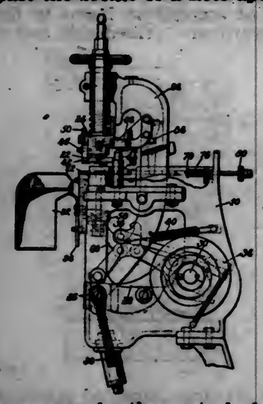


1. A table comprising a top supporting frame including sheet metal side frame members having substantially vertically extending portions and upper horizontal flanges, a substantially flat table top adapted to rest with its edge portions on the horizontal flanges, said top comprising a lower sheet of fibrous sound-deadening material, a superposed sheet-metal plate having its edges extending somewhat beyond the edges of the lower sheet and deflected downwardly to form a groove in the top adjacent the edges thereof and a cover of flexible material secured over the sheet metal plate and having its edge portions folded inwardly over the edges of the plate, and a channelled metal binding strip secured over the upper outer edges of the frame members and having a flange extending inwardly over the edge portions of the top and engaging in the groove.

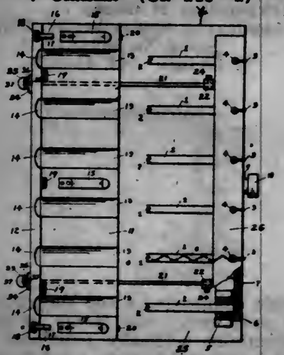
1,923,068
HEEL MACHINE
Fred Ashworth, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application February 5, 1931. Serial No. 513,591
10 Claims. (Cl. 12—50)

1. In a heel machine, the combination of a heel support, a presser movable into engagement

with a heel upon said support, a trimming blade movable past the breast of a heel upon the support, and means under the control of the presser for moving the trimming blade.

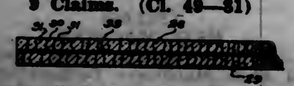


1,923,069
CORING MACHINE
Edward J. Bach, East Orange, N. J., assignor of one-half to Mont D. Rogers, Pelham Manor, N. Y.
Application August 6, 1931. Serial No. 555,419
7 Claims. (Cl. 146—1)



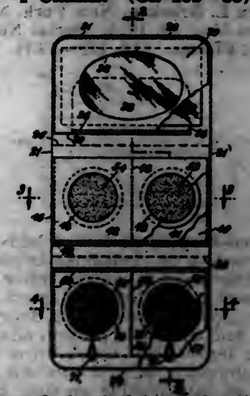
1. In a coring device for rolls and the like, the combination with a rotatable hollow borer and a stationary spiral wire extending along the interior of said borer and having its spiral convolutions extending throughout the length of the borer and having its fixed end extending through the open end of the borer for removing the core of the roll released by the borer.

1,923,070
SAFETY GLASS
William J. Belknap, Detroit, Mich., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a Corporation of Ohio
Application December 16, 1931
Serial No. 581,265
9 Claims. (Cl. 49—81)



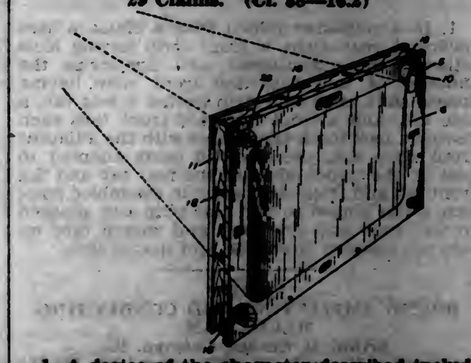
1. A composite safety glass sheet comprising a central layer of plastic material faced on both sides with adherent sheets of glass, each of said sheets of glass having its outer surface under compression and its interior under tension.

1,923,071
POUCH FOR TOILET ARTICLES
Ella B. Blom, Jackson Heights, N. Y.
Application December 12, 1932
Serial No. 646,943
4 Claims. (Cl. 132—63)



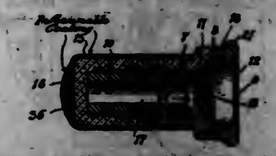
1. In a pouch for toilet articles the combination of a body portion of flexible material, a mirror holding member of flexible material having an opening and having its top and side edges fastened to the upper portion of said body portion at its inner face, said mirror holding member having its lower edge separated from said body portion, an inner folding flap positioned to the rear of said mirror holding member and having its lower edge fastened to the lower edge of said mirror holding member, a mirror detachably positioned between said mirror holding member and said flap, a compact holder carrying a powder compact detachably secured to said body portion at its face adjacent to said mirror holding member, and a powder puff detachably supported on said body portion adjacent to said compact holder and axially in line therewith, said body portion adapted to be folded to position, said powder puff upon said powder compact.

1,923,072
SOUND REPRODUCING DEVICE
Lester W. Bowen, Larchmont, N. Y., assignor to Trans-Lux Daylight Picture Screen Corporation, New York, N. Y., a Corporation of Delaware
Application April 13, 1929. Serial No. 354,731
29 Claims. (Cl. 88—16.2)



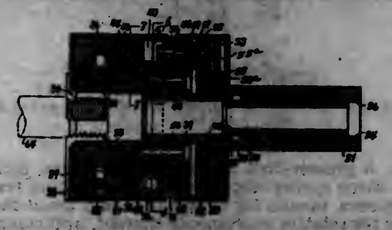
1. A device of the character described including a screen having an area to receive a light image, and diaphragm portions forming a part of said screen and at points beyond said area.

1,923,073
ELECTRICAL CONNECTION DEVICE
Jules J. Brell, New York, N. Y., assignor of one-third to Harry Radzinsky, New York, N. Y.
Application July 22, 1932. Serial No. 624,018
12 Claims. (Cl. 173—363)



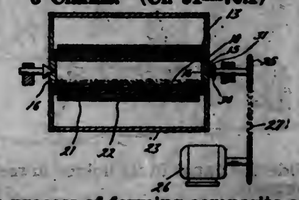
1. An electrical connector comprising a tubular shell of insulating material which will not crack or melt under heat, said shell having a coating of an inflammable substance on its outer surface and containing a fusible material, so that the bared ends of wires inserted into the shell will be fused therein by the ignition of the inflammable coating.

1,923,074
SELF OPENING DIE HEAD
Albert F. Breitenstein, New Haven, Conn., assignor to The Geometric Tool Company, New Haven, Conn., a Corporation
Application October 31, 1931. Serial No. 572,239
2 Claims. (Cl. 10—96)



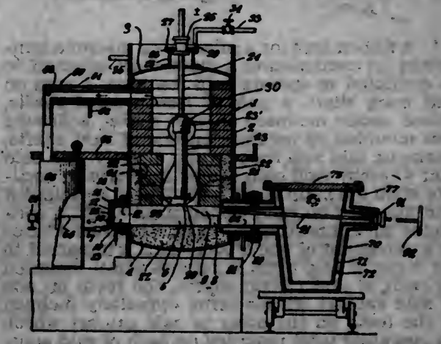
1. In a self-opening die-head, the combination with a mounting-member having a tubular shank provided at its forward end with a flange-like head having a bushing-receiving passage therethrough; of a chaser-carrying unit slidable with respect to the said mounting-member and provided intermediate its front and rear ends with an annular groove, the rear wall of which is formed by a removable plate the rear face of which is normally spaced apart from the front face of the said flange-like head, chasers carried by the said chaser-carrying unit, an oscillating chaser-operating ring installed in the said annular groove and provided at its forward end with means for operating the said chasers and provided at its rear end with a latching abutment; spring means arranged to turn the said chaser-operating ring in one direction; a bushing having a bottom wall and installed in the said removable plate and projecting rearwardly into the said bushing-receiving passage in the said flange-like head of the mounting-member; a reciprocating latching-plunger having a head and located in the said bushing and projecting rearwardly through the bottom wall of the same, a collar mounted upon the said projecting end of the said plunger and engageable with an abutment carried by the said mounting-member to limit the forward movement of the said plunger; and a spring encircling the shank of the plunger and interposed between the bottom of the chamber in the bushing and the head of the plunger, and closure-means secured to the said mounting-member and closing the bushing-receiving passage therein.

1,923,075
COMPOSITE METAL ARTICLE AND METHOD OF FORMING THE SAME
Walter Brown, Toledo, Ohio
Application May 27, 1929. Serial No. 366,467
8 Claims. (Cl. 91—70.1)



1. The process of forming composite articles of two metals of different composition having melting points above 1000° F. which consists in placing one metal in a solid state within a tube of dissimilar metal, sealing the opening at both ends of the tube, heating the tube to a temperature sufficient to melt the first mentioned metal, rotating the tube to cause the molten metal to adhere to the inner walls of said tube by centrifugal force cooling the tube while maintaining said rotation until said molten metal is solidified and removing from the rotating means the sealed tube lined with the first named metal.

1,923,076
ARC FURNACE FOR REDUCING OXIDES WITH CARBON UNDER PRESSURE
Louis Burgess, New York, N. Y.
Application January 16, 1932. Serial No. 587,127
4 Claims. (Cl. 13—31)

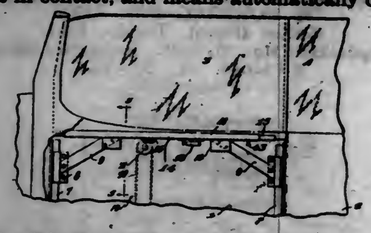


1. An arc pressure furnace comprising electrodes, adapted to be adjusted at arcing distance relative to each other, a pressure retaining shell surrounding said electrodes, an educt communicating with the said shell and extending downwardly from the point of communication, means for introducing a fluid to said educt, and a valve adapted to control said educt more remote from the said shell than the said means for introducing fluid.

1,923,077
VEHICLE BODY
Raymond L. Carr, Boston, Mass.
Application September 26, 1931
Serial No. 565,002
16 Claims. (Cl. 296—45)

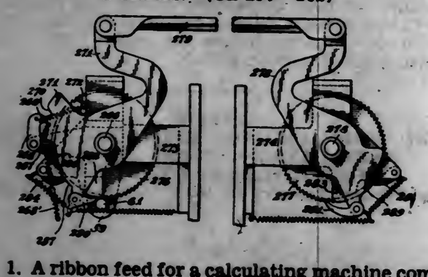
1. Vehicle body comprising a body wall including a swinging door and an adjoining section, a pair of panels carried on the respective sections, supporting means for said panels including a holder upon which one panel is slidably mounted,

said supporting means normally holding the panel edges in contact, and means automatically oper-



able to slide the panel in its holder in response to door movement.

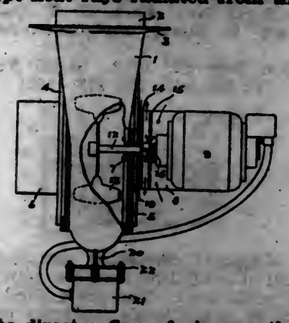
1,923,078
ADDING MACHINE RIBBON MECHANISM
Ralph C. Coxhead, New York, N. Y., and Charles W. Norten, Bridgeport, Conn.
Original application August 26, 1926, Serial No. 131,797. Divided and this application April 26, 1930. Serial No. 447,717
4 Claims. (Cl. 197—162)



1. A ribbon feed for a calculating machine comprising in combination a main shaft adapted to be oscillated to operate said machine, a cam on said main shaft, a pair of ribbon spool shafts, ribbon spools mounted on said shafts, a driving arm mounted to oscillate on one of said shafts, means on said arm cooperating directly with said cam whereby said cam causes said arm to oscillate when the main shaft is oscillated, an actuator arm mounted on each ribbon spool shaft, a connector bar connecting said actuator arms whereby a movement of one of said arms is imparted to the other of said arms, a ratchet wheel mounted on each of said ribbon shafts, the teeth on one of said ratchet wheels being oppositely inclined to the teeth on the other of said ratchet wheel, an operating pawl mounted on each of said actuator arms and adapted to engage said ratchet teeth, disabling cams for said pawls adjacent each ratchet wheel in such manner as to permit one pawl only to be operative at a time, one of said arms being provided with engagement notches, an engaging pawl carried by the driving arm and adapted to engage said driving notches whereby when said operating arm is oscillated, said actuating arms are oscillated.

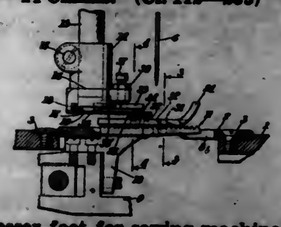
1,923,079
BLOWER UNIT
Rudolf D. Delamere, Toronto, Ontario, Canada
Application August 12, 1931. Serial No. 556,589
7 Claims. (Cl. 230—117)

1. A blower unit for handling hot gases, comprising a blower casing having an opening separate from the intake and discharge openings, an electric motor mounted close to said casing and having its shaft extending unsupported through the opening in the casing, an impeller mounted on said shaft within said casing, and means spaced between the casing wall and said motor to intercept heat rays radiated from the casing



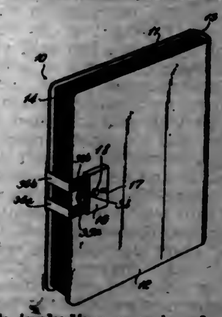
wall and to direct a flow of air over the casing wall inwardly around the shaft.

1,923,080
PRESSER-FOOT FOR SEWING MACHINES
Albert H. De Voe, Westfield, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey
Application April 15, 1932. Serial No. 605,408
14 Claims. (Cl. 112—235)



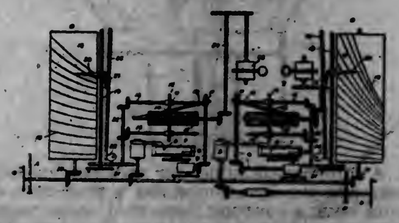
1. A presser-foot for sewing machines, including three spring-depressed work-engaging tread-members, means for supporting said tread-members for relative movements thereof, and compensating means acting upon each of said members for maintaining substantially constant the pressure distribution to said members.

1,923,081
CLOSURE FOR BOOKS AND SIMILAR ARTICLES
Andreas Elsner, Erlangen, Germany, assignor to New York Merchandise Co. Inc., New York, N. Y., a Corporation of New York
Application June 28, 1932. Serial No. 619,671
6 Claims. (Cl. 24—3)



5. A book including a pair of covers, a snap lock attached to the outer side of one of said covers, a substantially rigid U-shaped member having a long arm slidably mounted on the other of said covers, and a short arm having hook portions adapted to engage said snap lock.

1,923,082
FIRE CONTROL APPARATUS
Hiram E. Ely, of the United States Army, New York, N. Y.
Application March 28, 1929. Serial No. 350,753
2 Claims. (Cl. 235—61.5)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. In a data computer, means movable proportionately to angular height of an observed object, a drum movable in accordance therewith, a chart of curves of altitude on the drum plotted in function of a time factor and angular height on a basis of a given speed and angle of approach, a movable pointer normally perpendicular to the chart and indicating against the chart and means for inclining the pointer from the normal to the scale in accordance with the angle of approach.

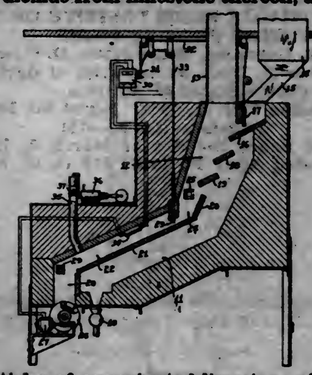
1,923,083
HEATING APPARATUS
Ernest F. Fisher, St. Louis, Mo.
Application March 12, 1930. Serial No. 435,453
11 Claims. (Cl. 219—34)



10. An air heater comprising a casing having a displaceable wall portion, a heating device arranged within said casing, and a heat-absorber supported by said displaceable wall portion.

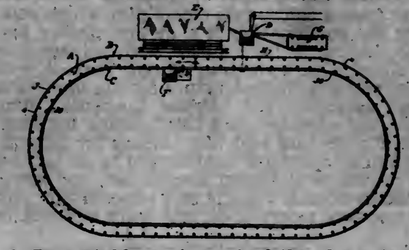
1,923,084
METHOD AND APPARATUS FOR BURNING LIMESTONE AND THE RECOVERY OF CARBON DIOXIDE
Edward P. Gillette, Toledo, Ohio, assignor to Gillette Research Corporation, Toledo, Ohio, a Corporation of Ohio
Application November 5, 1930. Serial No. 493,520
5 Claims. (Cl. 23—4)

4. The method of burning limestone which comprises heating a silicon carbide wall to a sufficiently high temperature to effect dissociation of carbon dioxide from limestone thereon, and pass-



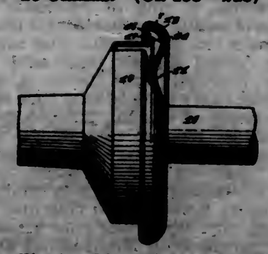
ing particles of comminuted limestone along and in contact with said wall.

1,923,085
PORTABLE EQUIPMENT FOR COURSING PARKS
Franklin Flick, San Francisco, Calif.
Application November 8, 1930. Serial No. 494,346
7 Claims. (Cl. 104—121)



1. In portable equipment of the character described, a combination fence and rail support, comprising a plurality of post members, means for supporting the posts in a vertical position, a plurality of fence panel sections detachably secured with relation to the posts, a pair of rail members secured to each panel, and means for connecting the rails to form a pair of continuous tracks.

1,923,086
AUTOMOBILE BRAKE SHIELD
Robert J. Givens, Nampa, Idaho
Application October 8, 1928. Serial No. 311,165
15 Claims. (Cl. 188—218)



12. A resilient rubber ring for sealing the annular space between enclosed brake housing members, said ring being channel-shaped in cross-section.

1,922,967

PRINTING MACHINE FOR MAKING FILM STRIP SLIDES FROM POSITIVE OR NEGATIVE MOTION PICTURE FILMS

George R. Goergens, Washington, D. C., assignor to Arthur M. Hyde, as Secretary of Agriculture of the United States of America

Application July 21, 1931. Serial No. 552,184
1 Claim. (Cl. 95—75)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A device for selectively printing titles and scenes from a continuous reel of film, which comprises the combination of a motion-picture machine, having a light house with an aperture and fitted with a rheostat in rear thereof, with a pivotally mounted structure having upper and lower magazines for holding unexposed film; means for exposing said film; means for independently feeding said film; means for carrying said film in operative relationship to an exposed film carried by the main mechanism; and means for independently feeding said exposed film past said aperture mounted on said main mechanism.

1,923,068

VIBRATION DETECTOR

Harvey C. Hayes, Washington, D. C.

Original application September 23, 1927, Serial No. 221,520. Divided and this application December 8, 1930. Serial No. 500,841
2 Claims. (Cl. 177—352)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



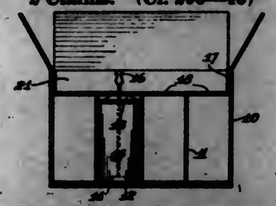
2. In a vibration detector an elongated casing adapted to be supported in the earth in a vertical position, a ring of magnetic material secured in said casing in a horizontal position, an armature mounted within said ring and having pole pieces spaced slightly from said ring and cooperating therewith, the faces of said pole pieces and the inner edge of said ring being beveled at an angle of substantially 45 degrees, to the longitudinal axis of said casing with said beveled faces closely adjacent and parallel to each other, coils on said armature, means for electrically energizing said coils to produce a flux across the space between said ring and said pole pieces, means for supporting said armature and adapted to permit both longitudinal and transverse movement of said armature with respect to said magnetic ring, and means for indicating the variations of flux through said coils due to movements of either type.

1,923,069

TODDY MIXER PACKAGE

Clarence R. Holt, Bellevue, Pa., assignor to Brockway Machine Bottle Company, a Corporation of New York

Application August 21, 1930. Serial No. 476,785
2 Claims. (Cl. 206—46)



1. A shipping container for transporting toddy mixers and the like comprising a protective enclosure having covering flaps at its upper edges, a compartmenting element in said enclosure providing a snug compartment for each of a plurality of toddy mixers and extending vertically from which are handle portions of such toddy mixers, a pan-shaped protective removable immobilizing element having a plane bottom resting on said toddy mixers and upstanding walls terminating flush with the protective enclosure and having apertures registering with the handle portions aforesaid and through which said handles project, said handles extending to the plane of the upper edge of said container, said covering flaps when in covering position resting on the tops of said handles immobilizing the same and completing the enclosure, the arrangement being such that a chamber is provided for said handles and the completely closed container immobilizing the toddy mixer parts with respect to the container and each other.

1,923,090

DEEP SEA FISHING

Stanley Hiller, Berkeley, and Joseph J. Coney, Alameda, Calif.

Application October 23, 1929. Serial No. 401,856
7 Claims. (Cl. 43—4)



1. A method of catching fish, which comprises forcing a volume of water and entrained fish into a moving vessel; seperating the fish with respect to different sizes thereof; discharging bait sized fish into the water at the forward end of said vessel and in front of the entrance of the water and fish; and discharging the water forced into said vessel with the very small fish into the body of water in which said vessel is sailing.

1,923,091

BOTTLE CLOSURE

Albert F. Hoffman, Newark, N. J., assignor to Hoffman Beverage Company, Newark, N. J., a Corporation of New Jersey

Application August 15, 1928, Serial No. 299,710
Renewed January 19, 1931
5 Claims. (Cl. 215—38)

1. In combination, a bottle neck having an outwardly extending shoulder contiguous to its open end, a metallic cap closing the neck of the bottle,

said cap being crimped over said shoulder, the neck being formed below said shoulder with an expanding taper and with an external groove below the taper, and a second cap formed of relatively rigid material extending over the end of the bottle neck and having an inturned flange



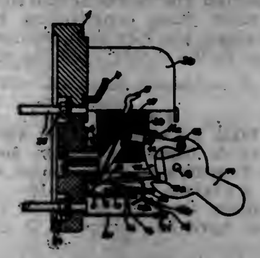
engaged in the groove, the second cap being formed at its lower end with a cylindrical manipulating collar, and at its upper end with an enlarged dome engaging the first cap, and the second cap being formed at its intermediate portion with a reduced part which engages the tapered part of the bottle neck.

1,923,092

ELECTRIC SWITCH

Adam Herst, Frankfort-on-the-Main, Germany

Application May 8, 1930. Serial No. 450,737
8 Claims. (Cl. 200—88)



1. In an electric switch having an overload release device the combination of a plate form release armature, a pair of magnet coils arranged side by side above said armature for actuating said armature on the occurrence of short circuits and like overloads, a moving contact member, a switch actuating and locking mechanism and an operating handle mounted between said coils, an upwardly moving plane bimetallic strip traversed by current mounted below and parallel to said armature, and a release member pivoted above said armature in the path of movement thereof and passing through the plane thereof into the path of said bimetallic strip, adapted to release said actuating and locking mechanism.

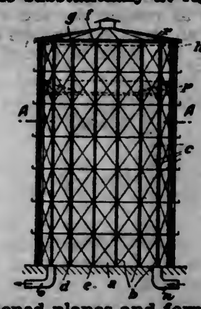
1,923,093

WATERLESS GAS-HOLDER

Konrad Jagschitz, Mainz, Germany

Application December 19, 1928, Serial No. 327,041, and in Germany December 20, 1927
6 Claims. (Cl. 48—176)

1. A waterless gas-holder comprising, in combination, a cylindrical tank a movable closure disc therein, vertical reinforcing posts structurally united to such tank and extending externally thereof, trusses connecting adjacent posts and lying substantially in planes defined by such adjacent posts, and a stiffening member connected to said posts adjacent to the tops thereof and lying in a plane substantially at right angles to



the aforementioned planes and forming skeleton spatial angles with said trusses at said posts.

1,923,094

PROCESS AND PRODUCTS PERTAINING TO TREATMENT OF METALLIC OXY-COMPOUNDS

Leslie G. Jenness, Brooklyn, N. Y., assignor to Intermetal Corporation, New York, N. Y., a Corporation of Delaware

No Drawing. Application January 22, 1931, Serial No. 510,774, and in Great Britain August 18, 1930
10 Claims. (Cl. 75—67)

1. The process of treating metallic oxy compounds which comprises passing chlorine through sulphur chloride consisting mainly of the dichloride or higher chloride to the substantial exclusion of the lower or monochloride, said sulphur chloride through which the chlorine is passed as aforesaid then being heated approximately to a temperature at or below the boiling point of the sulphur dichloride; and then delivering said chlorine and the vaporized sulphur chloride over the suitably heated compound.

1,923,095

METHOD OF CHLORINATING SULPHIDE ORES

Leslie G. Jenness, Brooklyn, N. Y., assignor to Intermetal Corporation, New York, N. Y., a Corporation of Delaware

No Drawing. Application October 3, 1931
Serial No. 566,817
7 Claims. (Cl. 75—67)

1. The process which comprises chlorinating metallic sulphide material by heating said material and reacting it with oxygen and chlorine gases simultaneously, the ratio of oxygen to chlorine being not substantially lower than five parts by volume of oxygen to two parts of chlorine.

1,923,096

BOOK CABINET

Clifford D. Keely, Bloomfield, N. J., and Harold T. Peirson, Brooklyn, N. Y.

Application May 16, 1930. Serial No. 452,837
18 Claims. (Cl. 45—85)

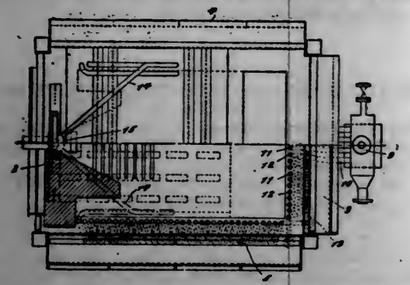
2. In a book cabinet, members constituting a stall in which a closed book is adapted to be contained, means including a pivot for securing the book in said stall permitting said book to be brought into an open position by swinging it upwardly and outwardly, said stall members, extending vertically above the closed position of the book, the upper edges of the stall members extending along the covers of the book adjacent the back thereof for a

portion only of the length of the book in open position, the inner walls of the stall members being shaped so as to render the top opening of the stall flared in an upward direction above the normal height of the book in closed position, said



flared portions beginning at the normal height of the book in closed position, said flared portions facilitating the return of the book when manually released and enabling the stall members to be brought closely against the sides of the book.

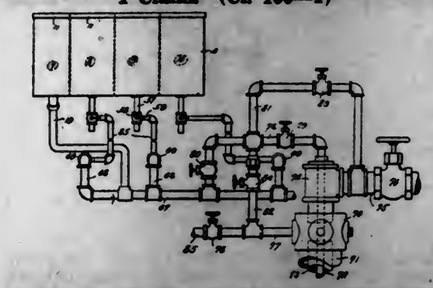
1,923,097
RADIANT HEAT SUPERHEATER
Howard J. Kerr, Westfield, and John E. Black, Rumson, N. J., assignors to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey
Application July 19, 1929. Serial No. 379,397
15 Claims. (Cl. 122—485)



7. A fluid heat exchange device comprising, in combination, a heating chamber, a row of fluid conducting tubes lining one wall of said chamber, and overlapping loops connecting alternate tubes so as to form the row of tubes into a plurality of fluid conducting conduits.

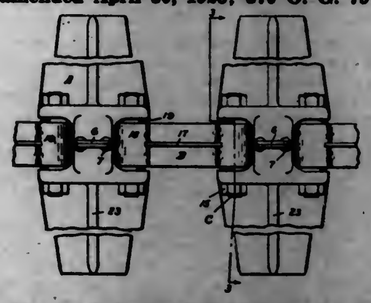
11. In a fluid heat exchange device, a tubular member subjected to furnace gases at high temperatures and containing a fluid the temperature of which is raised by heat from the gases, a heat conductive support not exposed to the furnace gases, and means connecting the member and the support and having bearing surfaces permitting relative movement therebetween while maintaining the member in its operative position, said means including a thermal insulator forming one of the bearing surfaces and adapted to withstand the high mechanical stresses imposed by the forces causing such relative movement without losing its integrity or its heat insulating property.

1,923,098
TREATMENT APPARATUS
James B. Knight and Albert J. Rainey, Los Angeles, Calif.
Application June 19, 1930. Serial No. 462,285
1 Claim. (Cl. 166—1)



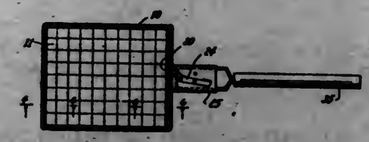
A compound open circuit system including a manifold for distributing fluid under pressure, a well casing, a casing head, a shell suspended in the casing and head, a fluid discharge line in communication with the upper end of the shell, an injector pipe extending from the manifold downwardly within the shell for conducting gas under pressure to the casing, spaced valves in said pipe, branch pipes extending from the injector pipe between said valves and opening into the outflow pipe and the casing head respectively, a valve in each branch pipe, and a valved inlet pipe opening into the manifold, the valves in said injector pipe and its branch pipes constituting means for quickly changing the direction, volume and velocity of flow to the casing from the manifold.

1,923,099
TRACK FOR TRACK-LAYING VEHICLES
Harry A. Knox, Davenport, Iowa
Application February 6, 1933. Serial No. 655,445
6 Claims. (Cl. 305—10)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



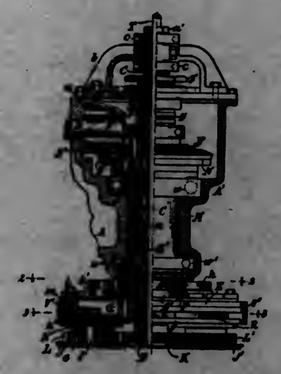
1. In a track for track-laying vehicles, a series of spaced shoes, each shoe consisting of two identical plates having spaced vertical portions and converging inclined portions, means for connecting the extremities of the inclined portions, sets of aligned bearings secured to the vertical portions, a link pin passing through each set of aligned bearings, a nut on each end of each link pin, a link having bearings on opposite ends, said link bearings positioned between the vertical portions of adjacent shoes and encircling link pins of said shoes, a bushing interposed between each link pin and link bearing including a metal tube fitting between the bearings of the shoe and slidably receiving the link pin and a rubber sleeve press-fitted in the link bearing, and serrations on the link pin, metal tube and the bearings of the shoe, the serrations on the link pin engaging the serrations on the tube and bearings of the shoe.

1,923,100
BROILING APPARATUS
Grace Mann Krag, Chicago, Ill.
Application August 29, 1930. Serial No. 478,578
5 Claims. (Cl. 53—5)



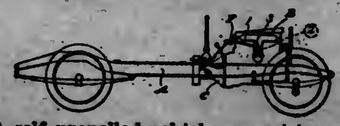
1. Grilling apparatus comprising an enclosing frame and two grill plate frames mounted in said enclosing frame, means for holding said grill plate frames in adjusted positions in said enclosing frame, said means comprising a holding plate mounted between one end of said enclosing frame and the adjacent ends of said grill plate frames, said holding plate being pivotally associated with said enclosing frame, and means for forcing said holding plate inwardly against said grill plate frames.

1,923,101
CAN END SEAMER
Frank Krueger, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of Delaware
Application February 10, 1932. Serial No. 591,996
18 Claims. (Cl. 113—24)



1. A seaming mechanism comprising a revolvhead, a seamer support and seamer carried thereby, a timing cam, a cam roller engaging said cam, the seamer and roller being connected and on opposite sides of the axis of rotation, whereby the roller acts to advance the seamer to its work, and a centrifugal counterweight connected to oppose the outward effect of centrifugal stress on the seamer support and seamer and to substantially balance such stress, whereby to leave the seamer in equipoise in both its working and retracted positions and avoid any force tending to separate the roller from the cam face.

1,923,102
SELF-PROPELLED VEHICLE
Fredrik Ljungstrom, Lidingo, Sweden, assignor, by mesne assignments, to Ped, Incorporated, a Corporation of Delaware
Application December 5, 1929, Serial No. 411,709, and in Sweden October 14, 1925
90 Claims. (Cl. 180—70)



1. A self-propelled vehicle comprising a prime mover, means for varying the power developed by the prime mover, a driven element, means for providing a driving relation between the prime mover and the driven element including a variable-speed transmission having a speed ratio permitting the prime mover to operate when the driven element is at rest while maintaining said driving relation, means for altering the effect of the prime mover on the driven element, and a manually operable member for actuating said altering means, said manually operable member and said power-varying means having related positions to limit the power developed by the prime mover when the altering means is operated.

1,923,103
RADIANT HEAT SUPERHEATER
Charles E. Lucke, New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey
Application September 23, 1929
Serial No. 395,963
16 Claims. (Cl. 122—481)

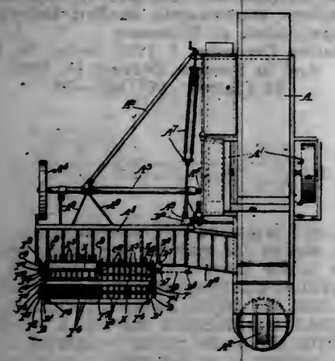


9. A furnace having a flexible external wall section continuously bowed inwardly of the furnace and consisting of a layer of flexible heat insulating material as a backing for a row of curved superheating tubes conveying steam to be radiantly heated.

1,923,104
PICK-UP
John Mainland, La Porte, Ind., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company, a Corporation of Delaware
Application October 19, 1928. Serial No. 313,403
17 Claims. (Cl. 56—364)

1. In a grain pick-up, a grain raising and conveying assembly, means for movably supporting said assembly upon a grain handling machine,

and a second grain conveying member included as a part of said movably supported assembly,

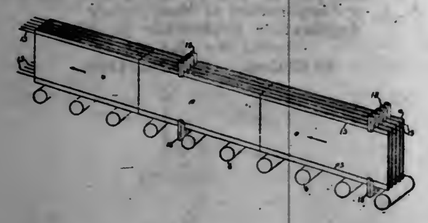


said member mounted for movement with respect to the rest of said pivotal assembly.

1,923,105
PROCESS FOR PRODUCTION OF NON-WARPING FIBER BOARDS

William H. Mason, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a Corporation of Delaware

Application December 11, 1929, Serial No. 413,198
Renewed November 4, 1932
6 Claims. (Cl. 92—54)



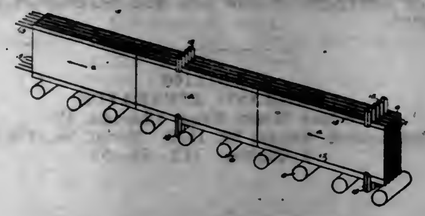
1. The process of producing hard, dense, vegetable fiber boards, substantially free from warping on exposure to the atmosphere, which consists in forming sheets of wet fibrated lignocellulose material containing a large percentage of the lignin of the original material, subjecting said sheets to pressure and heat sufficient to cause a substantial bonding or consolidating of the fibrated material into a substantially dry hard board of high specific gravity, arranging said boards in parallel planes separated by narrow spaces to form air passages or conduits, and in passing currents of humid air through said conduits until the boards absorb a water content sufficient to substantially prevent such warping.

1,923,106
APPARATUS FOR PRODUCTION OF NON-WARPING FIBER BOARD

William H. Mason, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a Corporation of Delaware

Original application December 11, 1929, Serial No. 413,198. Divided and this application November 14, 1930. Serial No. 495,615
9 Claims. (Cl. 34—31)

3. In apparatus for treating sheets of board, a movable conveyor, and stationary means for laterally supporting the boards in an upright position supported on edge by the conveyor for longitudinal movement, said means including lower and upper sets of laterally spaced longitu-

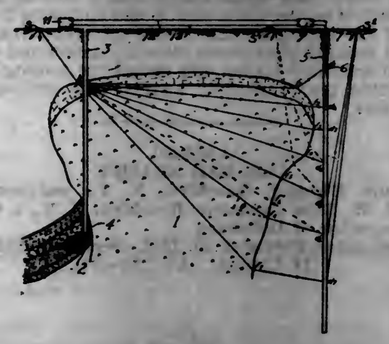


dinally extending guide members supporting the boards at opposite sides of the upper and lower portions thereof.

1,923,107
SEISMIC METHOD OF PROFILING GEOLOGIC FORMATIONS

Burton McCollum, Houston, Tex., assignor, by mesne assignments, to The Texas Company, a Corporation of Delaware

Application February 5, 1931. Serial No. 513,559
3 Claims. (Cl. 181—0.5)

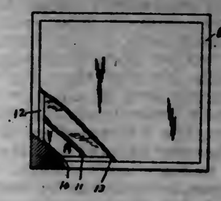


1. In the art of investigating geological formations, the method which consists in producing a seismic wave in the earth's substance, detecting the arrival of the wave at a point in the earth's substance, producing a seismic wave above said point and detecting the arrival of the second mentioned wave at two spaced points adjacent the first mentioned point.

1,923,108
MEANS FOR HEATING PHOTOGRAPHIC FILMS OR PLATES

Robert F. Mehl, Middletown, Ohio, and James T. Gow, Westfield, N. J.

Application December 30, 1931
Serial No. 583,962
13 Claims. (Cl. 250—34)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



9. A holder for a sensitized photographic ele-

ment, comprising a body member of material having high heat conductivity and heating elements embedded in said body.

1,923,109
INKWELL

Sol P. Mendel, Newark, N. J.

Application April 29, 1931. Serial No. 533,773
13 Claims. (Cl. 120—61)

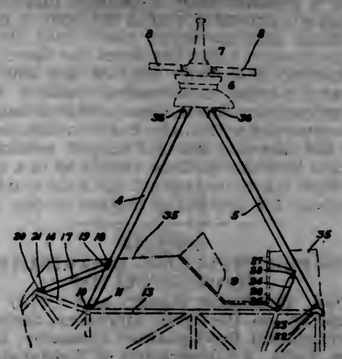


1. The combination with an inkwell and a movable tube therein serving to raise ink from said well by displacement, of a penholder support operatively connected to said movable tube and having a socket continuous with the bore of said tube; said penholder support being inclined with respect to the latter and said socket forming a dipping well for a pen when the support and tube are depressed.

1,923,110
SUPPORTING MEANS FOR AIRCRAFT SUSTAINING ROTORS

Roy W. Morse, Willow Grove, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a Corporation of Delaware

Application May 9, 1931. Serial No. 536,189
9 Claims. (Cl. 244—19)



1. A supporting pylon structure for an aircraft sustaining rotor, the pylon including a plurality of leg members secured together in angular relationship, said structure being associated with the body of the craft for removal and replacement as a unit, and detachable means for securing said structure to the body of the craft, said means including, for each leg member, means of connection to the fuselage secured to the legs at a plurality of spaced points on each.

1,923,111
LAMINATED GLASS AND METHOD OF MAKING THE SAME

William Henry Moss, Cumberland, Md., assignor to Celanese Corporation of America, a Corporation of Delaware

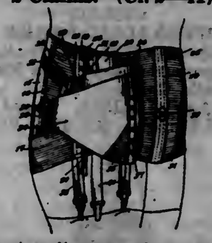
No Drawing. Application February 13, 1929
Serial No. 339,400
4 Claims. (Cl. 49—81)

1. The method of preparing laminated glass comprising coating a sheet of glass with a suitable adhesive, applying to said adhesive coated glass a solution in a volatile solvent of a derivative of cellulose in sufficient amounts to form a sheet, permitting the volatile solvent to evaporate, applying an adhesive in the form of a solution to the sheets thus formed, placing another sheet of glass over the sheet of the derivative of cellulose and pressing at elevated temperature.

1,923,112
CORSET

Gertrude L. Nickerson, Milford, Conn., assignor to The La Resista Corset Company, Bridgeport, Conn., a Corporation of Connecticut

Application December 9, 1929. Serial No. 412,788
2 Claims. (Cl. 2—41)

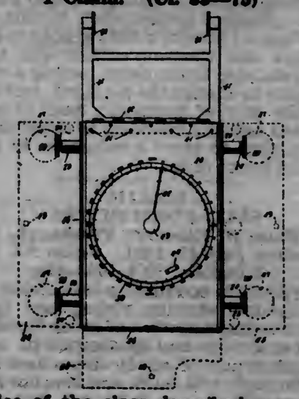


1. In a maternity corset, a generally non-elastic back section and a generally elastic abdominal section connected thereto and arranged to directly engage the abdomen to provide primary support therefor, a removable and generally non-elastic panel section exteriorly overlying said abdominal section for controlling pressure applied to said abdominal section from the abdomen, and adjustable non-elastic suspension means connected to the non-elastic back section for the panel section.

1,923,113
AEROPLANE MAP DEVICE

David H. Norvell, Kermit, Tex.

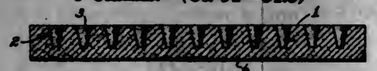
Application February 27, 1930. Serial No. 431,90
1 Claim. (Cl. 33—75)



A device of the class described comprising

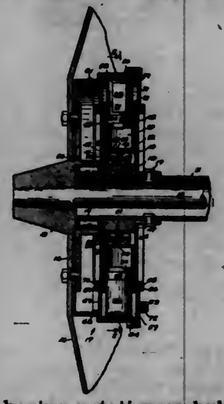
casing, extensible means on the casing to support a map, a sheet of material provided with a protractor mounted on the casing in offset relation thereto and in cooperative relation with the map, a bracket supporting said sheet and adjustably securing it to the casing whereby it may be moved into and out of operative position over said map, said bracket having arms, serrated portions on said arms, extensions on said casing, said extensions having serrated portions selectively engageable with the serrated portions of the arms, and bolts to secure engaged serrated portions together.

1,923,114
INK PAD
Stewart W. Partridge, Grand Island, Nebr.
Application May 25, 1931. Serial No. 539,889
5 Claims. (Cl. 91—54.5)



1. A stamp inking pad comprising a body of soft non-porous and elastic material having closely related ink wells entering from one face thereof, and a plug formed from the body in and sealing each well.

1,923,115
HYDRAULIC BRAKE
Albert Z. Rash and Will Rogers, Santa Monica, Calif., assignors of one-third to Monteith Snedegar, Norwalk, Calif.
Application April 14, 1932. Serial No. 605,200
17 Claims. (Cl. 188—91)

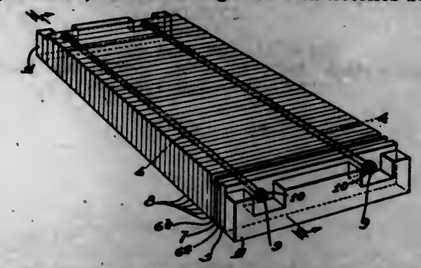


1. A brake having a stationary hub with a plurality of cylinders therein each having a piston with a plunger thereon, a fluid groove in each side of the hub and communicating with each cylinder, a rotatable brake drum having a wave-like cam therein to engage the plungers, and means to control the flow of hydraulic fluid to and from the grooves and the cylinders to cause the plungers and pistons to exert a resistance to the rotation of the brake drum.

1,923,116
SLUG-FORM BINDING
William H. Ritenour, Pittsburgh, Pa.
Application July 15, 1931. Serial No. 550,825
4 Claims. (Cl. 101—404)

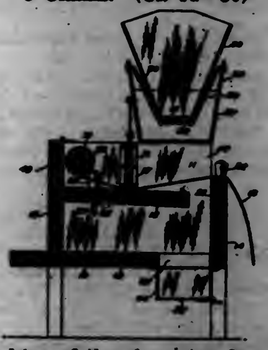
2. A type-form comprising a plurality of character slugs and spacing strips, said type-form having a continuous series of holes formed in the bodies of said slugs and spacing strips, in combination with a pair of relatively narrow rods suspended through said holes and bearing fastening means on either end, whereby the slugs are securely fastened only at right angles to their lengths, substantially as described.

4. The type-form described in claim 2, in combination with the head and foot slugs 11, 11 bearing notches, the lower edges of said notches be-



ing adapted to engage the fastening means and prevent sufficient displacement that would allow them to rise to printing position, in the manner and for the purpose described.

1,923,117
SURGICAL BANDAGE FORMING MACHINE
Harvie Robinson, Thomasville, Ga.
Application March 28, 1932. Serial No. 601,707
3 Claims. (Cl. 91—30)

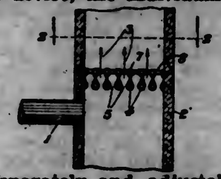


1. A machine of the character described comprising a box-like body, a slightly inclined shelf transversely arranged within the body, a vertically slidable gate arranged above said shelf and movable toward and away from the same, a hopper elevated above the body at one side of the gate and having a screening bottom, rocking hangers carrying said hopper, a roll of bandaging strip supported within the body and movable beneath the gate and the said hopper, means on the shelf and body for guiding said strip in a straight path when traveling beneath the gate and hopper, and means for imparting motion to the hopper.

1,923,118
MEANS FOR EFFECTING DISTRIBUTION OF FLOWING FLUIDS
Heinrich Bernhard Rüder and Willy Köpp, Frankfort-on-the-Main, Germany, assignors to International Precipitation Company, Los Angeles, Calif., a Corporation of California
Application August 19, 1930, Serial No. 476,405, and in Germany September 14, 1929
2 Claims. (Cl. 137—112)

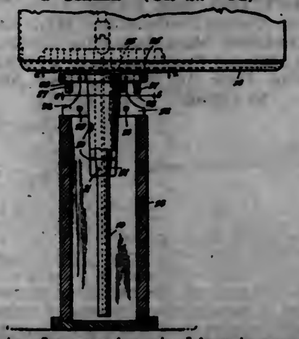
1. Means for effecting distribution of flowing fluids comprising, in combination with a fluid passage, a plurality of baffle members extending across said fluid passage and spaced from one another so as to define openings therebetween, said baffle members being of stream line cross-section when viewed in a direction perpendicular

to the direction of fluid flow so as to cause the openings therebetween to be similar to the shape of a Venturi device, the individual baffle mem-



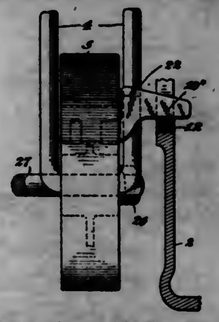
bers being separately and adjustably mounted for independent bodily movement toward or away from one another.

1,923,119
APPARATUS FOR POURING STEEL INGOTS
Edward Seidel, Youngstown, Ohio
Application August 3, 1931. Serial No. 554,876
1 Claim. (Cl. 22—84)



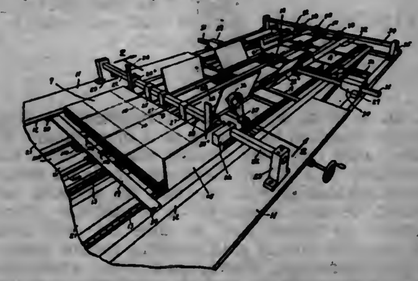
Apparatus for pouring steel ingots comprising a ladle, a nozzle of sufficient length to extend nearly to the bottom of a mold over which the ladle may be superposed, said nozzle having a smooth axial channel, said nozzle being formed of heat-resistant material to maintain high temperatures, a holder for the nozzle detachably secured to the ladle, and lateral wings on the holder adapted to span the ingot mold and support the nozzle at its lowest limit of movement in the mold during the pouring operation with the bottom of the nozzle spaced slightly from the bottom of the mold.

1,923,120
SAFETY SUPPORT FOR BRAKE BEAMS
James A. Shafer, East Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a Corporation of Ohio
Application August 23, 1932. Serial No. 630,038
14 Claims. (Cl. 188—210)



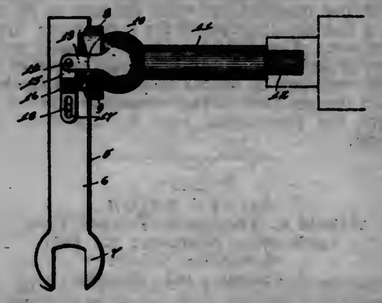
1. In a car truck, a side frame, a brake shoe, a brake head carrying said shoe, a hanger supporting said head, and means interposed between said shoe and said head and extending laterally therefrom into engageable relation with a portion of the truck for supporting said head in the event of failure of said hanger.

1,923,121
BOX FOLDING MACHINE
Paul R. Simmons, Marion, Ind., assignor to Indiana Fibre Products Company, Marion, Ind., a Corporation
Application February 25, 1932. Serial No. 595,086
18 Claims. (Cl. 93—49)



1. In a folding machine for forming tubularly arranged collapsed box blanks from flat scored sheets, the combination with an endless conveyor, of means supplying but a single sheet to said conveyor, the sheets being supplied in successive and spaced relation thereto, spaced means simultaneously elevating towards each other the opposite ends of the sheets and from the plane of sheet travel, including rotatable cam guides for inturning the elevated ends of the sheet in the forward movement thereof, spaced means for positioning the inturned and downward ends with edges substantially abutting, and means arranged to engage the substantially abutting edges for initially squaring the infolded ends, compressing the same adjacent the lowef portion of blank and then holding the same in that position for taping.

1,923,122
AIR HAMMER DRIVEN WRENCH
Joseph H. R. Smith, Philadelphia, Pa.
Application May 6, 1932. Serial No. 609,559
5 Claims. (Cl. 81—53)



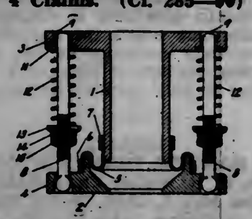
1. A wrench of the character described comprising a shank having a jaw formed integral with one end thereof, a socket member formed integral with one edge of said shank adjacent its free end, a driving rod having one end adapted to fit in said socket member and means pivotally and slidably connecting said driving rod to said shank.

1,923,123
PLUG- AND SOCKET-CONNECTION
Wilhelm Stahlecker, Cannstatt, Germany, assignor to Vereinigte Kugellagerfabriken Aktiengesellschaft, Schweinfurt, Germany
Application February 2, 1932, Serial No. 590,460, and in Germany November 21, 1931
8 Claims. (Cl. 287—119)



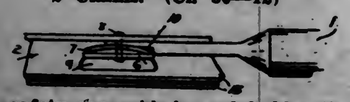
1. In a plug- and socket-connection, a plug, a socket adapted to receive said plug, means for holding said members against relative axial displacement in a given direction, resilient means secured to said plug at one end for keeping said holding means engaged, a clutching sleeve mounted to rotate and to slide on said plug, with the free end of said resilient means engaging said clutching sleeve, means for anchoring said clutching sleeve against axial displacement and rotation with respect to said socket, and means for alternately holding said sleeve against axial displacement and rotation with respect to said plug.

1,923,124
FLEXIBLE CONNECTION
Carroll M. Stanley, Piedmont, Calif., assignor to Oliver United Filters Inc., San Francisco, Calif., a Corporation of Delaware
Application April 4, 1932. Serial No. 603,162
4 Claims. (Cl. 285—99)



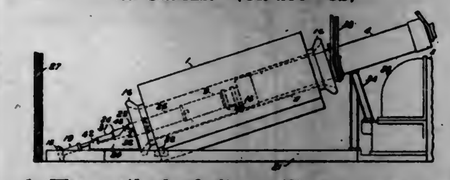
1. A vacuum connection comprising a pair of registering pipe fittings each flanged at its outer end; a flexible diaphragm for connecting the adjacent ends of said fittings; studs movably secured to one of said flanges and having their free ends loosely engaged in openings formed in the other of said flanges and springs disposed between said flanges for preventing said fittings from telescoping.

1,923,125
SAFETY RAZOR
Arnold E. Thompson, Denver, Colo.
Application November 23, 1931
Serial No. 576,852
2 Claims. (Cl. 30—12)



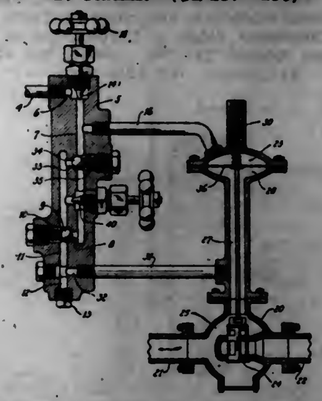
1. A safety razor blade and holder therefor comprising in combination, a blade, a handle, a reduced extension on one end of the handle, and a holder pivoted to said extension, said holder comprising a plate bent upon itself with the bight bent to form a substantially U-shaped extension engaging member from end to end of the plate, said U-shaped member being disposed on an angle to the balance of the plate, said U-shaped member having one leg thereof longer than the other leg, a lug struck from the plate intermediate the ends thereof and extending in a direction parallel to a confronting leg of the U-shaped member, a pivotal member extending through one leg of the U-shaped member and through the extension and the lug to swingably mount the holder on the handle, and a spring engaging the lug and the extension to yieldably hold the holder in adjusted position relative to the extension.

1,923,126
ROTARY MACHINE-PRIME MOVER POWER UNIT AND METHOD OF ASSEMBLING AND DISMANTLING THE SAME
William B. Tucker, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware
Application June 16, 1932. Serial No. 617,515
19 Claims. (Cl. 290—52)



1. The method of dismantling a power unit comprising a rotary machine and a prime mover connected thereto, said machine having a rotor and a rotor-surrounding stator, and said machine having an end facing said prime mover, which comprises, displacing the machine out of alignment with the operating axis of its rotor and then removing the rotor from the stator of the machine through said end of its stator.

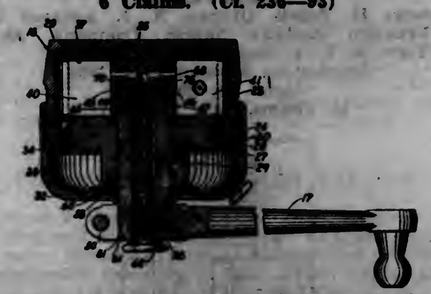
1,923,127
RELIEF VALVE
Vincent V. Veenschoten, Erie, Pa., assignor to Northern Equipment Company, Erie, Pa., a Corporation of Pennsylvania
Application April 24, 1930. Serial No. 446,884
10 Claims. (Cl. 137—156)



1. A relief valve casing in combination with a diaphragm casing, said valve casing having two inlet openings and two outlet openings, and

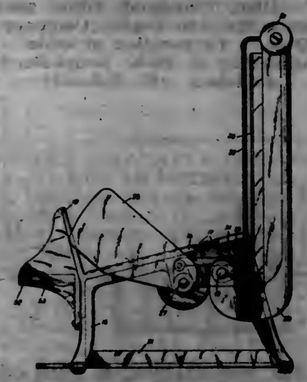
a passageway communicating with each of said openings, said diaphragm casing having a diaphragm chamber, and a diaphragm in said chamber, communicating means connecting said respective outlets with the diaphragm chamber on opposite sides of said diaphragm, means for passing a fluid under pressure into each of said inlets, and a relief valve mounted in said passageway between said outlets.

1,923,128
SHOCK ABSORBER
Fred E. Ullery, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey
Application March 10, 1932. Serial No. 597,969
6 Claims. (Cl. 236—93)



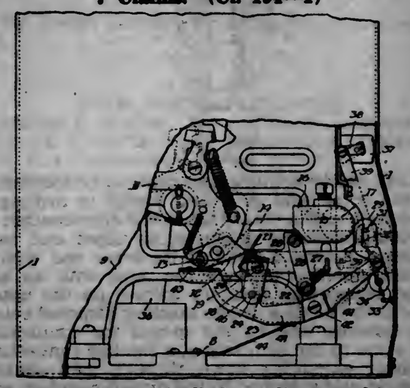
1. In a thermostatically controlled valve for a vehicle shock absorber, an outer valve member provided with an elongated circumferential slot therethrough, an inner member rotatable relative to said outer member provided with a flat portion underlying said slot, and a thermostat inter-acting between said members to rotate said inner member relative to said outer member, whereby the area of the opening through said slot will increase or decrease in direct proportion to the rate of increase or decrease of the viscosity of the shock absorber liquid throughout the entire operative temperature range of said shock absorber.

1,923,129
SLICING MACHINE
Harold L. Walker, Brooklyn, N. Y., assignor to The Jacobs Bros. Co. Inc., a Corporation of New York
Application October 22, 1930. Serial No. 490,340
2 Claims. (Cl. 146—146)



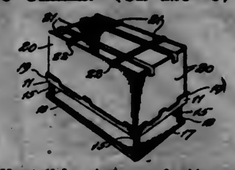
1. A slicing machine including, a deck, a knife pivotally carried at one end thereof, a stop plate pivotally mounted by said deck adjacent said knife and adapted to move in a plane substantially that of the path of movement of said knife, means coupling said knife and stop plate for simultaneous movement about their respective pivots, and additional means for automatically imparting an incidental lateral movement away from said deck to said stop plate as said knife is being lowered.

1,923,130
VENDING MACHINE
Wallace V. Weirich, Chicago, Ill., assignor to O. D. Jennings & Company, Chicago, Ill., a Corporation of Illinois
Application July 9, 1932. Serial No. 621,556
7 Claims. (Cl. 194—1)



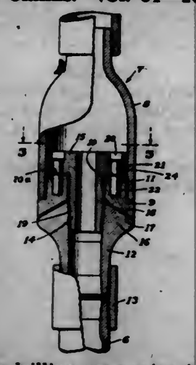
7. In a coin controlled vending machine including a cabinet having mechanism therein for dispensing merchandise and coupons, comprising a coupon reservoir, a coin controlled actuating member, a pivoted dog carried thereby, a shaft for operating said dispensing mechanism having a fixed dog thereon adapted to be engaged by said pivoted dog, a pivoted cam arranged to contact said pivoted dog when in one position to move the latter out of possible engagement with said fixed dog to disengage the dispensing mechanism from operation by said actuating member, a slide engaging said cam for swinging the latter, a pivoted member engaging said slide, and a lock mounted in a wall of the cabinet and connected to said member for actuating said slide.

1,923,131
CAMP STOVE
Wilford W. Wilkinson, Cleveland, Ohio
Application June 28, 1932. Serial No. 619,797
3 Claims. (Cl. 126—9)



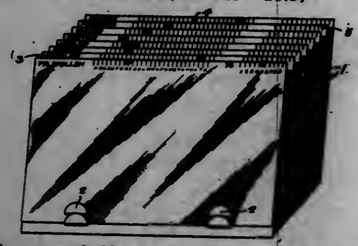
1. In a collapsible stove, a bottom having slots therein and provided with leg receiving openings at its corners, flanges extending upwardly from the periphery of said bottom, legs having reduced ends and supporting said bottom, said reduced ends being removably engaged in the leg receiving openings and extending upwardly alongside of and slightly spaced from said flanges, and side walls removably fitted between said legs and flanges and positioned thereby.

1,923,132
SAFETY DRIVING CONNECTION FOR DRILL STRINGS
Zara Witkin, Los Angeles, Calif.
Application August 28, 1929. Serial No. 388,937
5 Claims. (Cl. 64—105)



1. In safety drilling apparatus to be connected to the upper end of a drill string in drilling a deep well with a rotary table, the combination of a tubular housing driven at its upper end, said housing having a head at its lower end with a central opening through the same with an annular supporting shoulder formed on the upper face of the head, a driven member disposed below the housing and having means for connecting the same to the drill string, a tubular connecting member extending down through said central opening and attached to the driven member, and having an enlarged head at its upper end forming an annular projecting flange seating on said annular shoulder to support the drill string, and frangible cylindrical driving pins passing down through the upper face of said flange and into the said annular shoulder, imparting the rotary movement to the driven member, said pins operating to shear and permit free rotation of the housing when a predetermined torque is being imparted through the same.

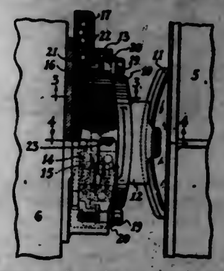
1,923,133
CARD INDEX SYSTEM
Rodney J. Wood, Dayton, Ohio, assignor to Remington Rand Inc., Buffalo, N. Y., a Corporation of Delaware
Application May 24, 1929. Serial No. 365,712
10 Claims. (Cl. 129—16.5)



1. In a card file system, a succession of vertically disposed record cards, each having indicia located on its top margin, and upturned supporting tongues located adjacent to the lower margin of each card on which to support in elevated position a like card whereby the marginal indicia of the elevated card will be exposed to view, there being record cards at spaced intervals so supported upon the supporting tongues of the next adjacent record card.

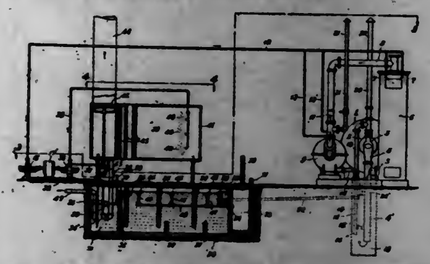
8. In a card index system, a succession of like cards, each adapted to receive record data on its body portion and guide indicia on its top marginal portion whereby any card of the series may be utilized for guide purposes by being elevated relative to adjacent like cards, said last-mentioned space being adapted to receive a basic index entry, and a subordinate index entry, the like subordinate index entries on different cards being located like distances from the basic entry and different subordinate index entries on different cards being located different distances from the basic entry in predetermined sequential relation.

1,923,134
BUFFER
George H. Zouck, Orange, N. J., assignor to Franklin Railway Supply Company, New York, N. Y., a Corporation of Delaware
Application September 24, 1928
Serial No. 307,259
10 Claims. (Cl. 212—221)



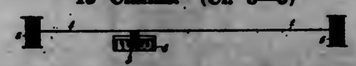
8. A buffer construction including a pocket member, a buffer plate, spring means associated therewith for supporting the plate, a spring backing member in said pocket, and wedge means reacting between the pocket member and the backing member for adjusting the tension of said spring means, together with means reacting between said plate and said backing member for relieving the pressure on said wedge means to facilitate adjustment thereof.

1,923,125
METHOD OF CLEANING AND COOLING GAS SCRUBBING WATER AND APPARATUS THEREFOR
Harry L. Allen, Cleveland, Ohio, assignor to The Bruce-Macbeth Engine Company, Cleveland, Ohio, a Corporation of Ohio
Application May 26, 1930. Serial No. 455,562
4 Claims. (Cl. 210—52)



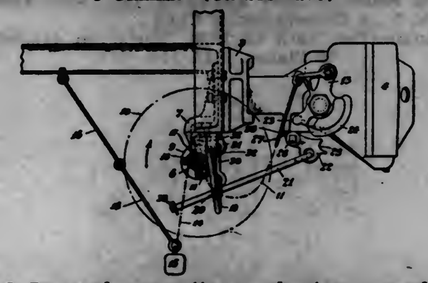
2. In gas manufacture, a water-equalizing chamber provided with an inlet for fresh water, an inlet for hot water, an inlet for cooled water, and two outlets, one of said outlets communicating directly with said inlet for cooled water and indirectly but freely with the main chamber portion, the other outlet and said inlet for cooled water communicating with each other exteriorly of said chamber; and means automatically controlling said inlet for fresh water to maintain the liquid level in the chamber at a desired height.

1,923,136
METHOD OF TINTING THREAD
Charles J. Bacon, Waynesboro, Va., assignor to Du Pont Rayon Company, New York, N. Y., a Corporation of Delaware
Application March 13, 1931. Serial No. 522,282
13 Claims. (Cl. 8—5)



1. A method of uniformly and fugitively tinting artificial thread which comprises applying an aqueous tinting composition to the thread and shortly thereafter, reducing the moisture content of the treated thread to an amount which will be insufficient to cause permanent staining.

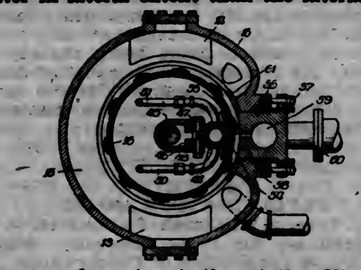
1,923,137
UNCOUPLING MECHANISM FOR CAR COUPLERS
Arthur J. Baseley, Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a Corporation of Ohio
Application February 25, 1928. Serial No. 256,897
5 Claims. (Cl. 213—219)



5. In coupler operating mechanism a coupler movable with respect to a car in draft and buff and having a longitudinally slidable lock, an uncoupling lever pivoted on the side of the coupler for retracting the lock for uncoupling, means for actuating the uncoupling lever, a lock retainer mounted on the coupler head below said uncoupling lever, and means comprising an operating rod operable from the side of the car for causing the lock retainer to be lifted to engage the uncoupling lever and thereby render the lock nonoperative.

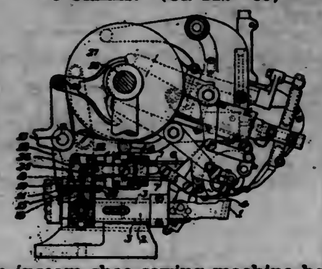
1,923,138
METHOD AND APPARATUS FOR CONTINUOUS FILTERING
Arthur J. Boynton, Chicago, Ill., and Frank A. De Lisle, New York, N. Y., assignors to H. A. Brassert & Company, Chicago, Ill., a Corporation of Illinois
Application November 24, 1931
Serial No. 576,968
7 Claims. (Cl. 210—152)

1. In a revolving filter adapted to be cleaned by backwashing, a rotating filter member comprising a frame with spaced openings formed therein, separate filter elements carried by the frame and closing said openings, backwash discharging and receiving members adjacent opposide sides of the rotating filter member and flanges on said backwash members extending adjacent the rotating surfaces, such flanges being greater in lateral extent than the lateral width



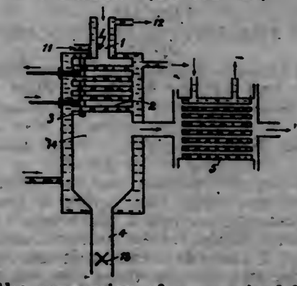
of the spaced openings in the rotating filter member.

1,923,139
SHOE SEWING MACHINE
Dinsmore L. Bunker, Auburn, Maine, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application February 11, 1929, Serial No. 339,011
Renewed June 1, 1932
6 Claims. (Cl. 112—39)



1. An inseam shoe sewing machine having, in combination, a work-supporting slide, a guideway for said slide, a toggle-arm adapted to clamp the slide against its guideway, a pivot about which said arm rotates, and a guideway for said pivot permitting the arm to follow the deviation of the slide as the latter is pressed against its guideway.

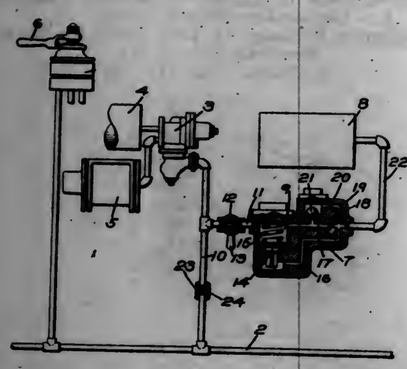
1,923,140
PRODUCTION OF ACETYLENE AND CARBON BLACK
Otto Eisenhut, Heidelberg, and Heinrich Schilling and Paul Baumann, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application September 19, 1931, Serial No. 563,785, and in Germany September 22, 1930
3 Claims. (Cl. 204—31)



1. In the conversion of a vaporized hydrocarbon into acetylene and carbon black by the ac-

tion of an electric arc, the step which comprises cooling the mixture of gas and carbon black issuing from the arc first to a temperature between 100° and 300° C. by heat exchange with a cooling element, carbon black being thereby deposited on this element, and then further cooling the gas freed from at least part of the carbon black to atmospheric temperature by contacting it with a second cooling element.

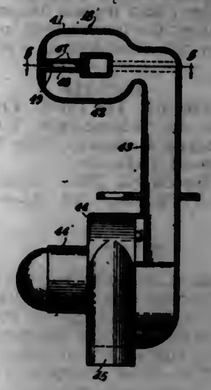
1,923,141
FLUID PRESSURE BRAKE
Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania
Application December 10, 1930
Serial No. 501,411
8 Claims. (Cl. 303—40)



1. In a fluid pressure brake, the combination with a brake pipe and a locomotive brake equipment including a brake controlling valve device operated upon a reduction in brake pipe pressure for effecting an application of the brakes, of a supplemental volume chamber connected to the brake pipe side of said valve device which increases the brake pipe volume above normal and means for limiting the flow of fluid from said valve device and said chamber to the brake pipe to a fixed rate when the brake pipe pressure is reduced, which rate is less than the rate at which the brake pipe pressure is reduced.

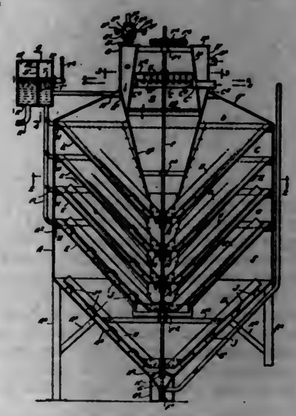
1,923,142
DEVICE FOR DRYING MOTION PICTURE FILM
Eric T. Fransen, Maplewood Township, Essex County, and Arthur J. Weiss, West Orange, N. J., assignors to Franklin-Williams, Inc., Orange, N. J., a Corporation of New Jersey
Application March 12, 1931. Serial No. 521,976
2 Claims. (Cl. 34—48)

2. A device for drying motion picture film, comprising an upper casing and a lower casing, said casings having a plurality of slots in their adjacent faces, a tube communicating with the casings, a vacuum creating device connected to the tube, and flanges along the edges of the adjacent faces of the casings, said flanges being spaced so that the picture portion of a film will not contact the flanges, said flanges having a plurality of passages cut therein through which



air is drawn through said slots and over both sides of a film passing through the device.

1,923,143
MANUFACTURE OF SUGAR
Leonidas E. Gonner, New Orleans, La., assignor to Petree & Dorr Engineers, Inc., New York, N. Y., a Corporation of Cuba
Application April 18, 1930. Serial No. 445,360
10 Claims. (Cl. 210—55)



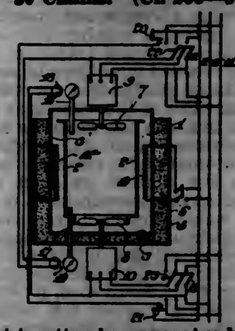
1. Gravitational separator apparatus comprising a plurality of conical trays arranged to form a series of superposed sedimentation and decantation compartments, a liquid outlet pipe connected with each of said compartments near the top thereof for permitting a flow of liquid therefrom, a central discharge opening in each of said trays, a vertically disposed shaft passing through said discharge openings, sweep arms mounted on said shaft and extending substantially parallel to the upper surface of each of said trays, a plurality of rearwardly curved scrapers at the rear of each of said sweep arms and arranged to contact with the upper surface of the corresponding adjacent tray, and a hinged connection between the forward portion only of each of said scrapers and the adjacent sweep arm.

1,923,144
ILLUMINATED ORNAMENTAL DEVICE FOR DECORATIVE PURPOSES
Elmer J. Graf, Roselle Park, N. J.
Application March 13, 1931. Serial No. 522,275
2 Claims. (Cl. 176—16)



1. A device of the character described, comprising a base of moldable material, a plurality of exhausted envelopes spaced apart and mechanically independent of each other and permanently embedded directly in said moldable material, filaments in said envelopes, and conductors connecting the filaments, said conductors being embedded in the base.

1,923,145
METHOD AND APPARATUS FOR HEAT TREATING
John W. Harsch, Gwynedd, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania
Application January 28, 1931, Serial No. 511,693
Renewed December 6, 1932
20 Claims. (Cl. 266—5)



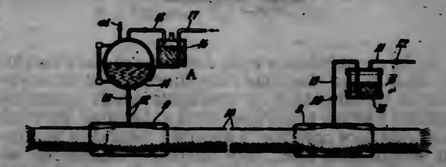
1. In heat treating by apparatus having a work chamber, the method which comprises effecting thorough penetration of the load within said chamber by positive and independent agitation of the heat vehicle on different sides of the load.

1,923,146
COMBINATION ANTIRATTLE AND FASTENING DEVICE FOR WINDOW SASH
Howard B. Herdeg and Merle E. Smith, Buffalo, N. Y.
Application February 25, 1931. Serial No. 518,122
2 Claims. (Cl. 292—155)



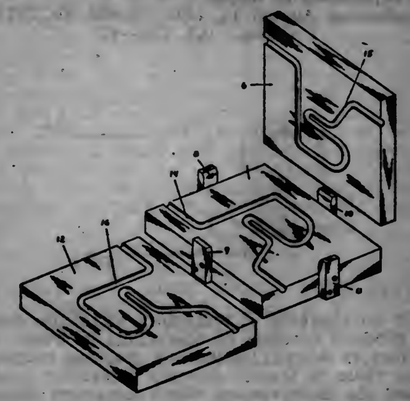
1. A device of the character described including a body, a resilient member carried by said body which is adapted to resiliently engage the casing of the window with which the device is associated and means carried by the sash of the said window for adjustably supporting said body so that said resilient member engages said casing through a range of movement of the said sash to urge the latter edgewise against the opposite side of the casing, whereby to prevent objectionable vibratory movements of the said sash, said means including a thumbscrew upon which the said body is mounted, said thumbscrew being adjustable so that the end thereof extends through said body to engage said casing to lock said sash against movement.

1,923,147
ELECTRIC CABLE AND METHOD OF OPERATING THE SAME
Clarence F. Hirshfeld, Detroit, Mich.
Application May 17, 1927. Serial No. 191,964
6 Claims. (Cl. 173—264)



3. The method of maintaining the dielectric properties of an electric cable having fibrous insulation impregnated with a liquid dielectric, which includes feeding a liquid dielectric to said fibrous insulation during operation of the cable, and removing gases generated in cable service, also during operation thereof.

1,923,148
METHOD AND MEANS OF FABRICATING TUBING OF VITREOUS MATERIAL
Fred Hotchner, Los Angeles, Calif.
Application October 5, 1929. Serial No. 397,551
18 Claims. (Cl. 49—7)



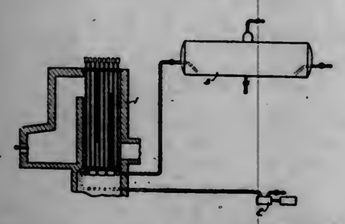
1. The method of forming a body of vitreous material which consists in providing a body of vitreous material incapable of supporting itself when heated to the working temperature with a flexible supporting body having a surface of such nature as to be non-adhesive to said vitreous material when hot; heating both said bodies together, forming both said bodies together when hot, and subsequently separating both said bodies from each other.

1,923,149
DOORLOCK
James R. Hughes, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey
Application January 17, 1929. Serial No. 333,178
13 Claims. (Cl. 70—91)



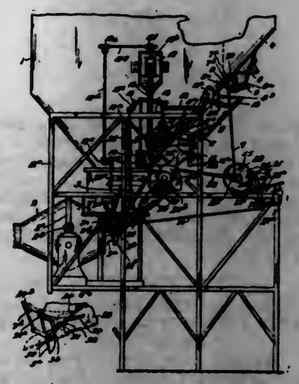
1. In combination with a door structure having an opening in the edge face thereof and an opening in its side face, a rotatable latch operating handle having a tubular shell extending through said side face opening, a member rotatably mounted within said shell, key operated means for selectively causing said member to rotate with said shell and independently thereof, an eccentric on the concealed end of said member, and a lock member slidably mounted in said shell movable by said eccentric upon the independent rotation of said member into the opening in the edge face of said door structure to constrain said latch operating handle against rotative movement.

1,923,150
ART OF REFINING HYDROCARBONS
Orin G. Kaasa, Munster, Ind., assignor to Sinclair Refining Company, New York, N. Y., a Corporation of Maine
Application August 15, 1931. Serial No. 557,250
1 Claim. (Cl. 196—47)



In the cracking of refractory petroleum stocks to produce gasoline in operations in which the refractory stock is heated to a cracking temperature while in transit through externally heated tubes, the improvement which comprises initially circulating a stream of less refractory stock through and heating it to a cracking temperature in the heated tubes for a minor part of the period of operation until a thin deposit of soft coke is formed on the interior of the tubes and thereafter circulating a stream of the refractory stock through and heating it to a cracking temperature in the heated tubes whereby hard coke deposited from the refractory stock is deposited upon the previously deposited soft coke.

1,923,151
AUTOMATIC CENTRAL MIXING PLANT
Philip A. Kechring, Milwaukee, Wis., assignor to Kechring Company, Milwaukee, Wis., a Corporation
Application December 9, 1930. Serial No. 501,117
12 Claims. (Cl. 83—73)



1. In an apparatus of the class described, the combination with a supporting framework having a coarse aggregate batcher unit and a bulk cement bin carried by the frame, of means for discharging controlled quantities of cement from the bin, weighing mechanism for weighing the controlled quantities of the cement as discharged from the bulk bin into the weighing mechanism, means synchronized with the weighing mechanism for automatically closing the bin discharge when the desired weighed amount of cement is discharged therefrom, a premixer for receiving the weighed cement from the weighing mechanism, instrumentalities actuated by the weighing mechanism for introducing into the premixer with the cement predetermined measured quantities of water to form a cement slurry in the premixer, a hopper for weighing controlled amounts of coarse aggregates from the batcher, a main mixing drum means for introducing the said weighed amounts of coarse aggregates and cement slurry simultaneously into the main mixing drum, timing mechanism for automatically synchronizing the operating cycle of the aforesaid means and instrumentalities, and manually operable means for controlling the discharge of aggregates and slurry into the main mixing drum while placing the timing mechanism into operation.

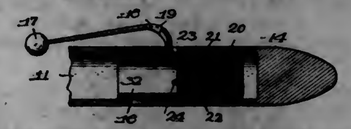
1,923,152
GOLF PRACTICE APPARATUS
David Kohn, Albany, N. Y.
Application October 29, 1930. Serial No. 491,977
5 Claims. (Cl. 272—35)

1. In a golf practice device, a plurality of nested nets formed of flexible material and arranged one within the other and having their front portions generally elliptical in form and eccentrically arranged and lying in substantially the same plane, the center of a given ellipse being located above that of the adjacent outer ring, and means for conveying balls from the respective nets, each of said nets extending rearwardly from the front edge thereof and the lowermost portion of each of said nets being



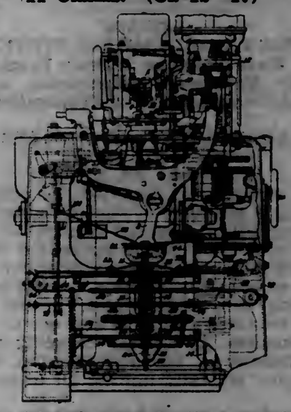
located below the lowest portion of its front edge.

1,923,153
MECHANICAL PENCIL
Herbert H. Lang, Wilmette, Ill., assignor to Rite-Rite Mfg. Co., Chicago, Ill., a Corporation of Illinois
Application August 27, 1931. Serial No. 559,620
9 Claims. (Cl. 120—84)



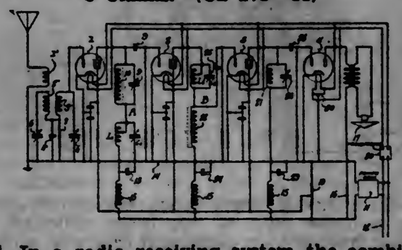
3. In a mechanical pencil, in combination with a barrel provided with a notch at its upper end, a combined ferrule and clip engaged in said barrel with the top end of said clip located in said notch, part of said ferrule projecting beyond said barrel presenting a seat for an eraser, said ferrule being split to form a resilient seat for a cap.

1,923,154
MACHINE FOR USE IN THE MANUFACTURE OF SHOES
Robert H. Lawson, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application December 8, 1931. Serial No. 579,668
11 Claims. (Cl. 12—17)



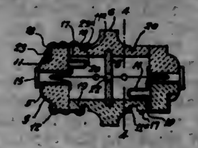
1. A machine for use in the manufacture of shoes having, in combination, a shoe supporting jack, devices for performing an operation progressively along the bottom margin of a shoe supported on the jack, a support on which the jack is pivotally mounted relatively remote from the point of operation to move in directions extending transversely and longitudinally of the shoe to locate the shoe transversely with relation to said devices and to transfer the point of operation along the shoe, and a carrier mounted to move during the operation on a shoe in a direction extending longitudinally of the shoe in which the jack support is mounted to slide in a direction substantially perpendicular to the bottom surface of the shoe to maintain said surface in the desired plane adjacent said devices.

1,923,155
RADIO RECEIVING SYSTEM
William Turner Lewis, Racine, and Arthur R. Woolfolk, Wauwatosa, Wis.; said Woolfolk assignor to said Lewis
Application May 5, 1930. Serial No. 449,731
8 Claims. (Cl. 178—44)



1. In a radio receiving system the combination of means for receiving radio energy; a radio frequency amplifying vacuum tube; means for transmitting energy of a selected wave length from said first mentioned means to said tube, said means including a resonant circuit having capacity and inductance and adapted to be tuned to said selected wave length; means resonating with a portion only of said inductance for rejecting energy of a wave length on one side of said selected wave length; a second vacuum tube; means including a resonant circuit having capacity and inductance and adapted to be tuned to a wave length differing from said selected wave length, said last mentioned means being interposed between said first and second mentioned tubes; and means resonating with a portion only of said last mentioned inductance for rejecting energy of a wave length on the other side of said selected wave length, whereby a sharp cut-off is obtained on each side of said selected wave length.

1,923,156
REVERSIBLE DOUBLE ENDED FUSE PLUG
William J. Luse, New York, N. Y.
Application December 18, 1929
Serial No. 414,984
17 Claims. (Cl. 200—125)



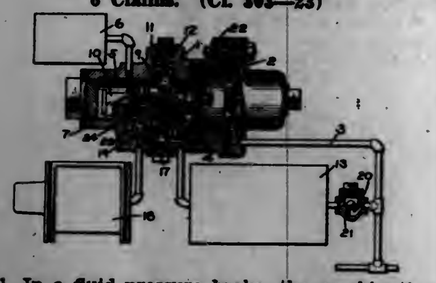
1. A double ended fuse plug comprising a pair of complementary semicylindrical sections adapted to be placed in edge abutting relation to form

a cylindrical plug body, one end of each of said semicylindrical sections being provided with an integral circular end piece adapted to serve as a closure for the opposite ends of the cylindrical body when said sections are assembled, said sections being provided interiorly with circumferential channels adapted to register when the sections are assembled and a partition peripherally engaging said channels and held in place thereby, said partition serving to lock the sections against relative longitudinal movement.

1,923,157
FLUID PRESSURE BRAKE

Joseph C. McCune, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania

Application September 24, 1929
Serial No. 394,208
6 Claims. (Cl. 303—23)



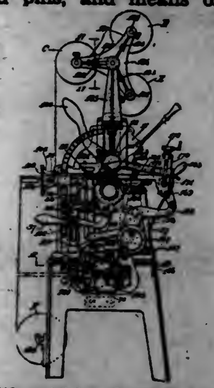
1. In a fluid pressure brake, the combination with a brake pipe, of two brake cylinders, a control reservoir, an additional reservoir, a control valve device subject to the opposing pressures of the control reservoir and the brake pipe and operated upon a reduction in brake pipe pressure for supplying fluid under pressure from said additional reservoir to the brake cylinders, and means including a removable choke plug having a restricted port through which fluid is supplied to one brake cylinder, and a removable choke plug having a restricted port through which fluid is supplied to the other brake cylinder for independently regulating the delivery of fluid to said brake cylinder from said additional reservoir so as to obtain desired fluid pressures in each brake cylinder.

1,923,158
PLAITING MACHINE

Lawrence E. McDonough, Chicago, Ill.

Application February 1, 1930. Serial No. 425,140
13 Claims. (Cl. 223—44)

1. In a plaiting machine, a pair of reciprocating cloth gripping members, means for actuating said members; and control means including a drum rotatable in timed relation to said reciprocating members and having an adjustable camming surface, a normally inoperative actuating dog disposed adjacent said adjustable camming surface, manually operable means for shifting said dog into contact with said surface, the adjustable camming surface including a series of pins disposed parallel to and concentrically of the axis of rotation of the drum and selectively shiftable in axial direction into or out of position for engagement with the dog for imparting a certain sequence of movements to the cloth gripping members in producing a desired combination of plaits in the cloth, said pins each being formed with a head disposed for manipulation in axially shifting the pin, said heads acting as stops abutting against a transverse surface of the drum to limit the inward movement of said pins, and means on the drum,

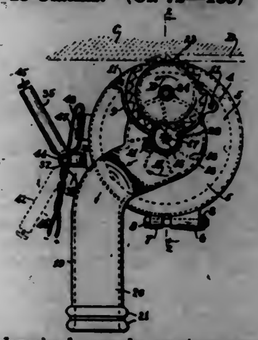


engageable with said heads of the pins for limiting their movement in the opposite direction.

1,923,159
WALL-CRACK CUTTING ROUTER

Daniel F. McLaren, Glen Cove, N. Y.

Application August 7, 1929. Serial No. 384,070
13 Claims. (Cl. 72—138)



1. A mechanical crack router comprising a motor, a crack cutter driven thereby, a suction air blower driven by said motor, and a means for connecting to the discharge end of the blower a porous collector for collecting the debris loosened by said cutter and impelled by said blower into said collector.

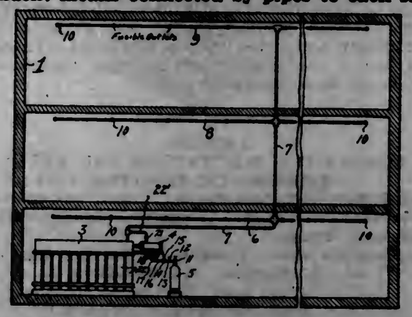
1,923,160
FIRE EXTINGUISHING SYSTEM

Malcolm Wate McLaren, Jackson Heights, N. Y., assignor, by mesne assignments, to Walter Kidde & Company, Inc., a Corporation of New York

Application November 23, 1928
Serial No. 321,379
12 Claims. (Cl. 169—11)

1. In a structure as disclosed, the combination comprising a plurality of gas containers, means for holding them in spaced relation, a valve on each container, actuating means for the valve comprising members having a plurality of arcuate slots arranged in a circle, a lever arm provided with an arcuate slot, means passing through the slot on the arm and one of the slots on the member for readily securing the lever to said member at any desired point, and link members for pivotally uniting all of said levers together.

6. In a fire extinguishing system, the combination with a structure to be protected, of a source of high pressure gas, a pipe system connected thereto and suitably placed within said structure, fusible outlets in said pipe system, valve means for controlling the supply of gas from said source to said pipe system, fluid pressure means for operating said valve means, a pipe connection between said pipe system and one side of said fluid pressure means, and independent means connected by pipes to each side

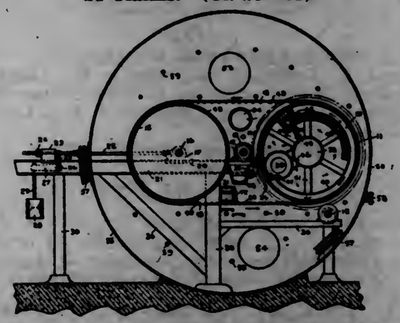


of said fluid pressure means for continually supplying a fluid pressure medium thereto, the pressure on one side of said fluid pressure means being relieved through said pipe connection upon the fusing of one of said fusible outlets whereby said valve means is opened to supply gas from said source to said pipe system.

1,923,161
PROCESS OF AND APPARATUS FOR THE TREATMENT OF MATERIALS SUCH AS COAL, LIGNITE, ASPHALT, ETC.

Randolph J. McRae, New York, N. Y., assignor of one-half to John W. McKinnon, New York, N. Y.

Application February 28, 1929, Serial No. 343,526
Renewed January 12, 1933
14 Claims. (Cl. 25—75)



1. In an apparatus for the thermal treatment of materials, the following elements in combination: A supporting frame; a pair of cylinders rotatably mounted in said frame; a belt passing around said cylinders; heating means located inside of one of said cylinders; means adapted to rotate said cylinders and said belt; and means adapted to feed material between one of said cylinders and said belt and into direct contact with said cylinder.

1,923,162
SIGNAL DEVICE FOR VEHICLES

Carl Mohr, Los Angeles, Calif.

Application August 2, 1928. Serial No. 296,998
13 Claims. (Cl. 177—337)

1. An operating mechanism for a signal device, said operating mechanism including an operating arm, pivotal means to mount said arms on a hand wheel shaft for movement about the shaft, a hand segment, said segment being resiliently secured to said operating arm, said segment including tongues adjacent each end, a yoke, said yoke including a U-shaped portion and oppositely directed fingers, said yoke being secured to said operating arm, an inverted U-shaped member positioned in said U-shaped portion of said yoke and movable therein, said member being secured to said segment, a pair of superimposed disks mounted on said hand wheel shaft and adapted to move about said shaft, each of said disks including a finger having a stop edge thereon, said fingers being oppositely disposed and spaced apart, and means to connect said disks to said hand wheel shaft.

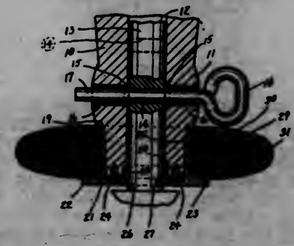


11. In combination with a vehicle including a hand wheel steering shaft, a signaling mechanism, said signaling mechanism including an operating mechanism, and a control device, said operating mechanism comprising an operating arm mounted on said hand wheel shaft, means to support said operating arm for free limited movement, means fixed on said hand wheel shaft for moving said operating arm when the shaft turns beyond a certain point, a semaphore, said semaphore including a right and a left signal arm, means actuated by said operating arm when said operating arm is actuated and moved within the limit of its free movement about the shaft to selectively move a signal arm to partly extended position and means operated when said operating arm is moved by said steering shaft whereby a signal arm will be fully extended.

1,923,163
BUMPER CONSTRUCTION

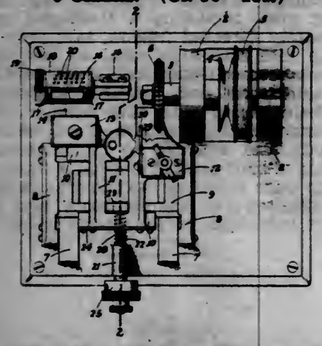
Elmer H. Neelting, Evansville, Ind., assignor to Faultless Caster Company, Evansville, Ind., a Corporation

Application December 17, 1931
Serial No. 581,594
4 Claims. (Cl. 45—137)



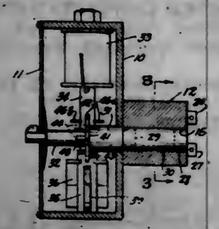
1. The combination with a tubular leg adapted to detachably receive a caster stem, of a detachable ferrule peripherally enveloping the leg for confining the end thereof, said ferrule including an integral outwardly directed flange adjacent its lower end, means rigidly securing said ferrule to the leg, and annular cushion means rotatably supported by the ferrule and retained upon the leg by the flange and including a metallic inner bushing and a cushion material outer peripheral portion projecting appreciably beyond the flange, said bushing having an outer periphery less than that of the flange.

1,923,164
CODE KEY CUTTING MACHINE
Axel H. Rose, Chico, Calif.
Application February 17, 1931. Serial No. 516,292
6 Claims. (Cl. 90—13.2)



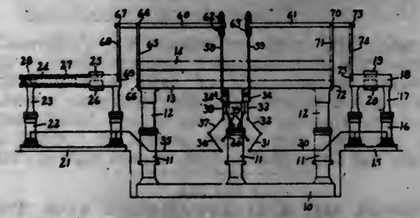
1. A code key-cutting machine comprising a base, a rotary cutter mounted thereon with its axis horizontal, a carriage mounted in connection with the base for movement both parallel and at right angles to the axis of the cutter independently, a key clamping block on the carriage, means on the base to adjustably limit the movement of the carriage at right angles toward and from the cutter, a horizontal pin mounted on the carriage and extending at right angles to the axis of the cutter, and a member mounted on the base and provided with a row of holes extending lengthwise of the axis of the cutter and on a level with the pin for selective engagement with the pin.

1,923,165
TRIPLE GAS CONTROL VALVE
Tracy B. Ryon, Pasadena, Calif.
Application March 29, 1930. Serial No. 440,140
10 Claims. (Cl. 137—139)



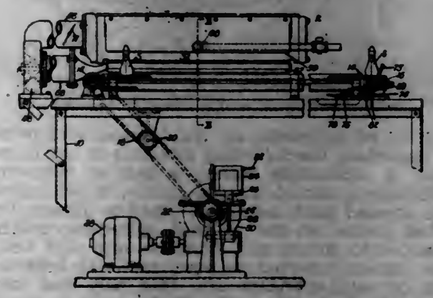
7. In a gas burner control valve structure: a rotary valve comprising a casing having an inlet at one end and an outlet at the other end with a plug socket intermediate said inlet and outlet, said socket having its axis transverse to the path of flow of gas between said inlet and outlet, a plurality of outlet ports circumferentially disposed about the bore of said socket for communication between said socket and outlet, an inlet port between said inlet and bore of said socket, a main rotatable plug in said socket having a recess for registration with said ports, whereby said plug may be angularly disposed either to block said inlet port or to open said inlet port to said recess and progressively place said outlet ports in communication with said recess and thereby with said inlet; an electromechanical step by step mechanism for rotating said main plug comprising a stem having a toothed wheel of metal with four ratchet teeth extending radially, and two single contact teeth extending laterally in opposite directions and disposed between successive ratchet teeth and a pair of contact teeth extending laterally in opposite directions disposed intermediate succeeding ratchet teeth so that said single contact teeth and said pair of contact teeth will be advanced in seriatim, a reciprocable plunger and pawl engaging said ratchet teeth, an electromagnetic device to move said plunger, a pair of brush contacts disposed on opposite sides of said wheel for engagement by said contact teeth, said wheel being electrically connected to one electrical terminal and each of said brush contacts being electrically connected to separate terminals.

1,923,166
EQUALIZING MECHANISM FOR BELT PRESSES OR THE LIKE
Carl F. Schnuck, New Haven, Conn., assignor to Farrel-Birmingham Company, Incorporated, Ansonia, Conn.
Application June 17, 1930. Serial No. 461,834
22 Claims. (Cl. 69—1)



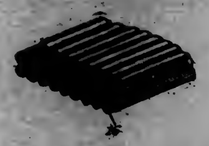
1. In combination, a machine having two vertically movable parts, fluid pressure operated means to raise said parts, controlling means for varying the delivery of fluid pressure to the raising means for one of said parts, and said controlling means being in turn controlled by the movement of the other part.

1,923,167
SHOE TREATING APPARATUS
August R. Schoenky and Joseph W. Johnson, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application September 19, 1929. Serial No. 393,797
22 Claims. (Cl. 12—1)



1. In an apparatus for treating portions of shoes, a conveyor operating in the open air and arranged to support the shoes to be treated, a conduit provided with an opening extending along the conveyor in proximity to the shoes thereon, and means for causing the flow of a treating medium through the opening and in contact with the shoes upon the conveyor.

1,923,168
METHOD OF MAKING WOVEN FABRICS
Ralph C. Simmons, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application February 5, 1931. Serial No. 513,628
8 Claims. (Cl. 28—1)



1. That improvement in methods of making woven fabric for shoe soles which consists in treating a warp or filling yarn with a solution of synthetic resin which will dry on the yarn without substantially stiffening it, said resin serving as an inactive artificial stiffening agent, providing a filling or warp of yarn untreated with said stiffening agent, weaving the warp and filling to form a woven fabric and heating the fabric to activate the stiffening agent and render the treated yarn hard and stiff.

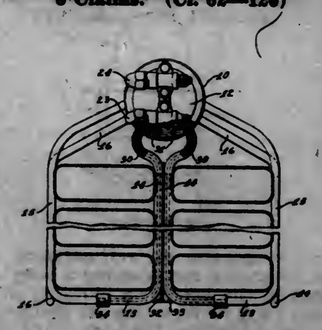
1,923,169
SHOE SOLE AND METHOD OF MAKING THE SAME
Ralph C. Simmons, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application February 5, 1931. Serial No. 513,629
27 Claims. (Cl. 36—44)



1. A shoe sole comprising a closely woven fiber fabric having flexible lengthwise strands containing no stiffening material to permit the sole to be readily bent in the direction in which it is bent in walking and relatively inflexible transverse strands impregnated with stiffening material.

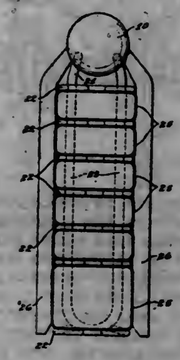
27. That improvement in methods of making insoles which comprises providing a latexed base layer, placing on the latexed side of the base layer a ball piece of woven fabric having stiffened strands extending laterally of the base layer, said fabric piece having the side next to the base layer latexed and having its end impregnated with latex, placing the shank and heel piece on the base layer, said piece having a skived forward end overlapping the fabric piece, placing a toe piece having a skived rear end in overlapping relation to the fabric piece, and pressing the parts together to cause adhesion between the base layer and the pieces and reduction of the overlapping ends of the fabric piece and the skived ends of the shank and toe piece to a uniform thickness.

1,923,170
EVAPORATOR
Franklin G. Siegel, Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y., a Corporation of New York
Application May 13, 1929, Serial No. 362,906
Renewed January 10, 1933
8 Claims. (Cl. 62—126)



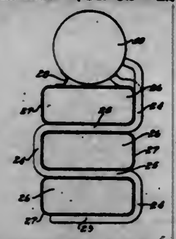
2. In an evaporator adapted to contain a body of liquid refrigerant and oil, a header, tube loops depending from the header and in open communication therewith, and an open pipe extending through one leg of the tube loops and into the header.

1,923,171
EVAPORATOR
Franklin G. Siegel, Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y., a Corporation of New York
Application August 13, 1930, Serial No. 475,033
Renewed January 10, 1933
8 Claims. (Cl. 62—95)



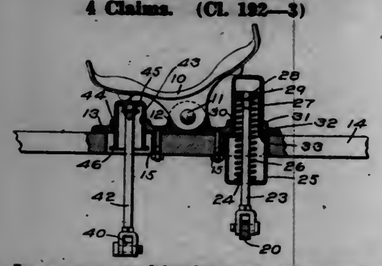
1. In an evaporator for refrigerating systems, a header adapted to contain a body of liquid refrigerant, means for admitting refrigerant into the header to maintain the liquid body substantially constant, a tube depending from the header including legs having their open ends in open communication with the liquid body, and a plurality of parallel tubes in planes beneath the header, said tubes extending laterally from said depending tube and having their ends connected in open communication with the interior of the legs of the depending tube.

1,923,172
EVAPORATOR
Franklin G. Siegel, Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y., a Corporation of New York
Application August 13, 1930, Serial No. 475,034
Renewed January 10, 1933
3 Claims. (Cl. 62—126)



1. In an evaporator for refrigerating systems, a header, means for maintaining a body of liquid refrigerant in the header, a plurality of similar tubes each bent to form similar double vertical and horizontal sections, the ends of the tubes being connected to the header in communication with the liquid body and the vertical sections being alternately disposed on opposite sides of the header, and sleeves extending longitudinally in superposed relation and contacting with the tube sections on at least two sides.

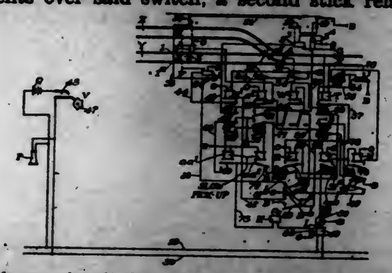
1,923,173
AUTOMOTIVE BRAKE
Carlton D. Stewart, Berkeley, and Howard R. Hughes, Oakland, Calif., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania
Application November 12, 1931
Serial No. 574,476
4 Claims. (Cl. 192—3)



1. In a power and brake controlling apparatus for a motor vehicle, the combination with brake controlling means and power controlling means, of a pedal device having two lever arms, one of which is depressible to operate said power controlling means and the other of which is depressible to operate said brake controlling means, a spring, and a member operated by said power controlling lever arm for first compressing said spring and for then operating said power controlling means.

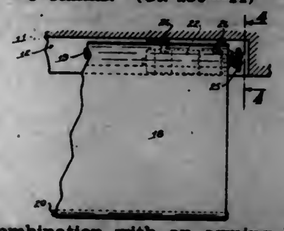
1,923,174
REMOTE CONTROL APPARATUS
Paul P. Stoker, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania
Application November 15, 1929, Serial No. 407,368
Renewed February 3, 1931
12 Claims. (Cl. 246—3)

1. In combination, a railway track switch, a manually operable means, a stick relay, a pick-up circuit for said relay controlled by said manually operable means, a stick circuit for said relay controlled by traffic conditions adjacent said switch, means controlled by said relay for controlling said switch, a signal for governing traffic movements over said switch, a second stick relay, a



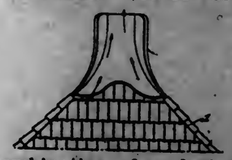
pick-up circuit for said second relay controlled by said manually operable means and by said first relay, a second manually operable means located adjacent said switch, a stick circuit for said second relay controlled by said second manually operable means, and means controlled by said second relay for controlling said signal.

1,923,175
ELECTRIC POWER MECHANISM FOR OPERATING AWNINGS
John Lenard Stuart, Oakland, Calif.
Application December 2, 1931. Serial No. 578,517
3 Claims. (Cl. 156—44)



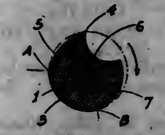
1. In combination with an awning having a retractible flexible cover and a front bar secured to the outer edge thereof, power mechanism for retracting said cover, a movable member positioned for engagement by said front bar when the awning is retracted, and means actuated by said movable member for stopping said power mechanism.

1,923,176
CHIMNEY STRUCTURE
Chester H. Thordarson, Chicago, Ill.
Application February 11, 1931. Serial No. 515,013
2 Claims. (Cl. 98—58)



1. The combination of a sloping roof and a chimney, the outer walls of which continue the slope of the roof and are then stream lined upwardly, said walls also being provided with projecting converging vanes to receive air flowing upwardly along the roof, accelerate its motion, and discharge it in a vertical direction adjacent the chimney top.

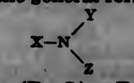
1,923,177
REAMER
Jesse D. Tucker, North Sacramento, Calif., assignor to Tucker-Gilmore Mfg. Company, North Sacramento, Calif., a Corporation of California
Application December 15, 1930
Serial No. 502,301
2 Claims. (Cl. 77—67)



1. A reamer comprising a body provided with a longitudinal recess in one side to form spaced cutting and following edges with the periphery of the body, the cutting edge and an arcuate portion of the body greater than 90° in extent and having its inception less than 90° back of the cutting edge lying in a common circle concentric with the axis of rotation of the reamer and the periphery of the body being depressed relative to said circle from the cutting edge to the adjacent end of said arcuate concentric portion, and from the opposite end of said portion to the following edge.

1,923,178
HYDROXY ALKYL ETHERS OF TERTIARY AMINES AND PROCESS OF PREPARING SAME
Heinrich Ulrich, Joseph Nuesslein, and Paul Koerding, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application March 16, 1931, Serial No. 523,178, and in Germany March 20, 1930.
10 Claims. (Cl. 260—127)

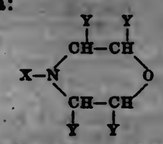
7. A hydroxyalkylether of a tertiary amine, corresponding to the general formula



in which X is $-(R-O)_n-R_1OH$, R and R_1 being the same or different alkylene radicles and n being any integral number, Y is a cyclohexyl or alkyl radicle, or the same as X and Z is a cyclohexyl or alkylol radicle or the same as X.

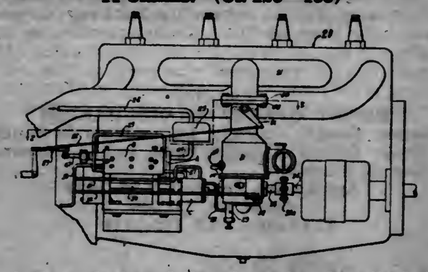
1,923,179
TREATMENT OF TEXTILES AND AGENTS THEREFOR
Heinrich Ulrich and Joseph Nuesslein, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application March 16, 1931, Serial No. 523,180, and in Germany March 20, 1930
11 Claims. (Cl. 8—20)

1. Preparations for the wet treatment of textiles comprising a non-dyeing agent selected from the class consisting of bucking, stripping, cleansing and scouring agents, capable of improving textiles in aqueous baths, and a morpholine having the formula:



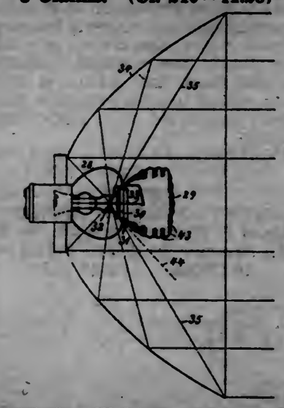
in which X is hydrogen or a substituted or unsubstituted alkyl, aryl or cyclo-alkyl radical and in which Y is hydrogen or an alkyl radical.

1,923,180
CARBURETOR FOR INTERNAL COMBUSTION ENGINES
Jesse Wheeler, Long Beach, Calif., assignor of one-half to Lang Transportation Company, Vernon, Calif., a copartnership consisting of Mike Lang, Gene Lang, and Howard M. Lang
Application October 19, 1929. Serial No. 400,874
44 Claims. (Cl. 123—138)



1. In a device of the character described, the combination of: a liquid fuel reservoir; a carburetor; a fuel feed pipe connecting said reservoir and carburetor; means operatively connected in said feed pipe for feeding fuel to the carburetor under pressure; valve means operatively connected in said feed pipe adapted to intermittently feed fuel to the carburetor; by-pass means operatively connected in said feed pipe, intermediate the pressure feed means and the valve means, adapted to automatically regulate the pressure of the fuel feed to the carburetor; there being a return flow pipe from the valve means to the fuel reservoir and a return flow pipe from the by-pass means to said reservoir.

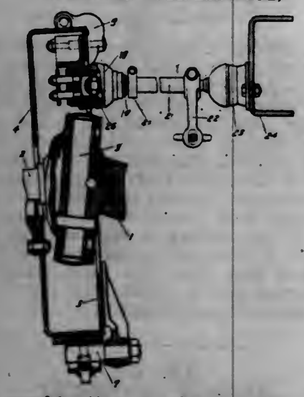
1,923,181
VEHICLE HEADLIGHT
Willi Albers, Breslau, Germany
Application January 15, 1931, Serial No. 508,887, and in Germany July 21, 1930
3 Claims. (Cl. 240—41.25)



1. A vehicle headlight comprising in combination, a main reflector, a lamp bulb in said reflector formed of two chambers and having a dimmed outer portion and a clear inner portion, a main filament arranged in the clear portion of said bulb in the focus of said main reflector, an auxiliary filament in front of said main filament and positioned on the longitudinal axis of said bulb, and an auxiliary reflector between and in promixity to said two filaments and arranged on the border line between the two chambers, and

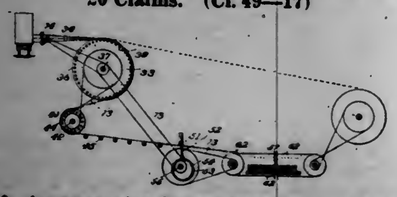
adapted to allow said main filament to flood the whole of said main reflector with white light and allow said auxiliary filament to flood a portion of said main reflector with dimmed light, and to prevent white rays from being projected into said main reflector by said auxiliary filament and to prevent a mixing of the two kinds of light, said auxiliary filament being so located with respect to the auxiliary reflector and the dimmed portion of the lamp bulb as to have the light rays thereof pass only through the dimmed portion of the bulb.

1,923,182
BRAKE OPERATING MECHANISM
Vincent Bendix, Chicago, Ill., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois
Application September 12, 1929
Serial No. 292,040
12 Claims. (Cl. 188—194)



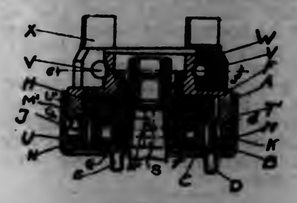
1. In combination, mechanism for actuating brakes external to a rotating vehicle wheel drum, comprising, a support member housed within the drum, a rotatable member, carried by said support member, levers carried on said support member and having one end thereof extending without the drum and connected to said brakes, the other end of said levers being operatively connected to said studs, and a control shaft having one end connected to said rotatable member and another part supported on a non-rotatable part or the vehicle.

1,923,183
FILAMENT SPINNING APPARATUS
Hans J. Blum, New York, N. Y.
Application January 26, 1932. Serial No. 589,025
20 Claims. (Cl. 49—17)



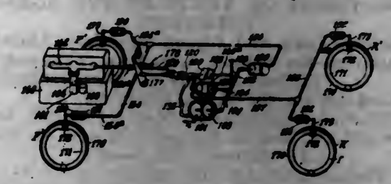
20. An apparatus for producing spun glass filaments comprising a furnace, a spinning wheel arranged beyond the furnace and having a surface formation of independently rotatable spaced elements, a take-off roller to receive the filaments from the spinning wheel, a cutter beyond the take-off roller for dividing the filaments into predetermined lengths, a conveyor beyond the cutter for delivering the severed filaments to a predetermined position for subsequent deposit in layers, and grippers on the conveyor for engaging the free end of a filament length and moving the same a predetermined distance prior to the operation of the cutter.

1,923,184
MAGNETO-ELECTRIC IGNITION APPARATUS
Jakob Bohli, Solothurn, Switzerland, assignor to Scintilla Aktiengesellschaft, Solothurn, Switzerland
Application April 9, 1931, Serial No. 528,991, and in Germany March 10, 1930
4 Claims. (Cl. 123—149)



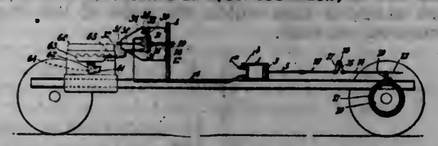
1. In a coupling with trip mechanism for magneto electric ignition apparatus, a hub of the driven coupling half being provided with two oppositely disposed pairs of arms, for receiving the pawls, of which one arm of one pair of arms has a radially outwardly directed extension which, when the coupling is in the disengaged position rests against a stop on the inner periphery of the driving coupling half, the hub of the driving coupling half having the form of a worm wheel in the teeth of which the thread of a screw of a dog clutch half engages.

1,923,185
HYDRAULIC BRAKE SYSTEM FOR AUTOMOTIVE VEHICLES
Caleb S. Bragg, Palm Beach, Fla., and Victor W. Kliesrath, Port Washington, N. Y., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y., a Corporation of New York
Application March 27, 1928. Serial No. 265,091
33 Claims. (Cl. 188—152)



31. In a hydraulic brake system for automotive vehicles, the combination with a plurality of brake mechanisms for the wheels of the vehicle, hydraulic pressure applying means connected to said brake mechanisms, a power actuator for operating said hydraulic pressure applying means, controlling valve mechanism for said actuator, an operator operated part for operating said valve mechanism and a plurality of means cooperating with said pressure applying means for transmitting the physical force of the operator to certain of said brake mechanisms less than the whole number.

1,923,186
BRAKE SYSTEM FOR AUTOMOTIVE VEHICLES
Caleb S. Bragg, Palm Beach, Fla., and Victor W. Kliesrath, Port Washington, N. Y., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y., a Corporation of New York
Application June 6, 1928. Serial No. 283,182
10 Claims. (Cl. 188—152)



9. The combination with a power actuator and sources of higher and lower fluid pressure, of a bodily movable controlling valve mechanism provided with relatively movable parts subjected to said higher and lower pressures, said pressures acting on the valve mechanism in a direction tending to disconnect the higher pressure fluid from the actuator, means for connecting said valve mechanism to the actuator for controlling the fluid pressures thereto, an operator operated part, the relatively movable parts of the valve mechanism being the one connected to said operator operated part and the other to a part fixed to the vehicle, and means interposed in the connections and acting in opposition to the differentials of fluid pressure on the valve mechanism.

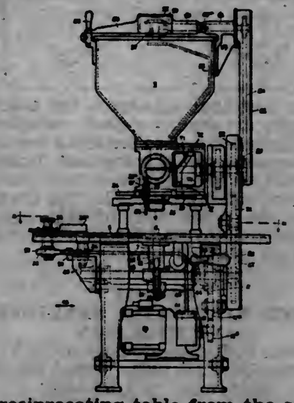
1,923,187
POWER ACTUATOR
Caleb S. Bragg, Palm Beach, Fla., and Victor W. Kliesrath, South Bend, Ind., assignors to Bragg-Kliesrath Corporation, South Bend, Ind., a Corporation of New York
Substitute for application Serial No. 156,222, December 21, 1926. This application October 1, 1931. Serial No. 566,303
28 Claims. (Cl. 188—152)



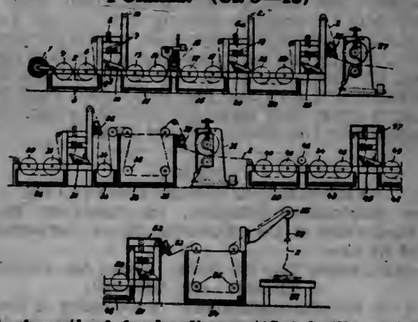
28. In combination, main and auxiliary actuators, each including a cylinder and a double acting piston operating therein, means connecting the pistons of said actuators with parts to be operated, valve mechanism for each of said actuators located within the pistons of said actuators and adapted to control higher and lower pressures to either side of the pistons in said cylinders, and a control device operatively connected with the valve mechanism of one of the actuators and connected to the other actuator for effecting the operation of the valve mechanism of the actuator with which it is associated through variation of pressures in the main and auxiliary cylinders.

1,923,188
MEANS FOR INTERMITTENTLY DELIVERING JAM, CUSTARD OR OTHER MATERIAL IN PREDETERMINED QUANTITIES
Ejnar Christiansen, Birmingham, England
Application March 5, 1932, Serial No. 597,063, and in Great Britain June 22, 1931
4 Claims. (Cl. 107—29)

3. A machine for delivering jam, custard or other material in predetermined quantities into pie casings or containers, comprising a feed hopper, a horizontally directed measuring chamber, a piston reciprocating in the chamber, a crank shaft reciprocating the piston through the medium of a connecting rod, located at the rear of the feed hopper, a valve for closing the inlet to the measuring chamber, a valve for closing the outlet from the measuring chamber, means for automatically operating said valves, a table on the upper side of which is supported the said measuring chamber, a driving shaft mounted on the underside of the said table, means for driving the said crank shaft from said driving shaft, a vertically reciprocating table mounted in the stationary table, means for reciprocating the vertically reciprocating table from the said driving shaft to raise the pie casing or the like to receive the filling and for lowering the table to separate the filling material at the nozzle and for the removal and replacement of the casing or the like, means for feeding a casing to be filled on to the reciprocating table and for removing a filled casing therefrom, comprising a slide mounted in a slot arranged longitudinally in the stationary table which passes the casing over the stationary table to the reciprocating table, a lever pivoted to the underside of the table and moving in a plane parallel therewith coacting at one end with said slide, and a cam mounted on said driving shaft for reciprocating said lever.



1,923,189
METHOD FOR LOADING ARTIFICIAL SILK CONTAINING FABRICS
René Clavel, Basel, Switzerland
Application August 23, 1928, Serial No. 301,495, and in Switzerland August 23, 1927
4 Claims. (Cl. 8—13)



1. A method for loading artificial silk containing fabrics in which the fabric to be loaded is

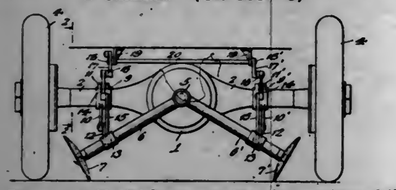
passed continuously through baths containing in succession a solution of an organic acid, tin tetrachloride solution, and alkali-metal phosphates.

1,923,190

ANTISKID DEVICE FOR AUTOMOBILES

Royden O. Couch, Grant, and Leo B. Eschbach, Melbourne, Fla.

Application July 10, 1931. Serial No. 549,906
4 Claims. (Cl. 188—5)



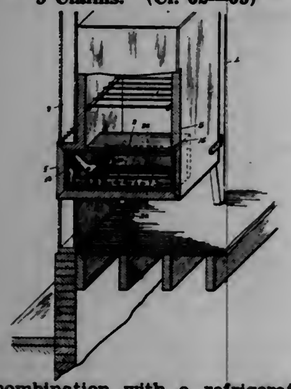
1. In an anti-skid apparatus for automobiles, having disks or similar devices adapted to be raised and lowered and to engage a road surface, the improvement which comprises inclined supports pivoted at one end to a fixed part of the car structure, rotatable disks having sharp edges, carried on the outer ends of said supports at right angles thereto and means for raising and lowering said inclined supports.

1,923,191

COMBINED AUTOMATIC REFRIGERATOR AND MILK BOX

John F. Dailey, Rochester, N. Y.

Application May 17, 1929. Serial No. 363,874
5 Claims. (Cl. 62—65)



1. In combination with a refrigerator, of a compartment insulated from the refrigerator, a door at each end of said compartment a passage leading into said compartment from said refrigerator, a passage leading out of said compartment into said refrigerator, means for simultaneously closing said passages, and means operated on the opening of said door to close said passages and keep said passages closed while said door is open, said means operating to open said passages on the closing of said door.

1,923,192

SYRINGE THERMOHYDROMETER

Leo Edelmann, Chicago, Ill., assignor to E. Edelmann & Co., Chicago, Ill., a Corporation of Illinois

Application May 27, 1930. Serial No. 456,269
5 Claims. (Cl. 265—46)

1. A thermo-hydrometer comprising a transparent housing having closures at its ends, a float barrel mounted within the housing and opening through both of said closures, a thermometer mounted through an opening in one of the closures with its stem within the housing and its stem within the housing and its bulb end exits bulb end extending beyond the end of the housing, suction means connected with the float barrel at the opposite end of the housing, a float within the barrel, and a nozzle tip mounted on the end of the housing and provided with a liquid chamber into which the bulb of the thermometer extends.



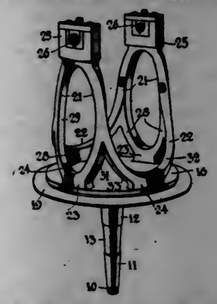
5. A thermo-hydrometer comprising, an elongated liquid barrel, a gauge float in said barrel, a nozzle tip at one end of the barrel, suction means at the other end of the barrel, a thermometer having a portion extended into the nozzle to be influenced by liquid taken into the barrel, said thermometer having an indicating portion outside of and sealed from liquid contact, a protective housing of transparent material enclosing the barrel and the indicating portion of the thermometer closed against ingress of liquid, and a scale sheet fitted within said housing around said barrel to thus be out of contact with the liquid and having a portion adjacent to the indicating stem of the thermometer showing markings to be read thereagainst.

1,923,193

FRAME FOR TRANSITS AND SIMILAR INSTRUMENTS

Willard L. Egy, Charles I. Day, and Charles E. Smart, Troy, N. Y., assignors to W. & L. E. Gurley, Troy, N. Y., a Corporation of New York

Application August 31, 1931. Serial No. 560,514
9 Claims. (Cl. 33—46)



1. A frame for surveying instruments, comprising in combination a base plate member; a vertical spindle extending downward therefrom; and standards extending upward from the base plate member, the outer and a substantial portion of the inner surface of the standards being surfaces of revolution about the axis of said spindle.

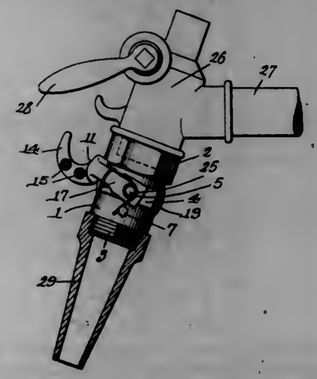
5. A frame element for surveying instruments comprising an annulus adapted to serve as the marginal portion of a base plate, and a standard structure formed integrally therewith, said standard structure comprising loop-shaped frame members connected with the annulus and arcuate brace members connecting the loop-shaped members with each other and with the annulus; the outer and a substantial portion of the inner surface of said standard structure being surfaces of revolution about an axis passing through the center of said annulus.

1,923,194

AUTOMATIC BUCKET TALLY

Frank D. Ellermeier, Swanton, Nebr.

Application March 9, 1932. Serial No. 597,782
1 Claim. (Cl. 235—94)



In a device of the class described, a tubular body, oppositely disposed first and second shafts outstanding from the body, a forked lever spanning the body and comprising a suspension element, the lever embodying a first arm mounted to swing on the first shaft, and a second arm mounted to swing on the second shaft, an actuating pawl rigidly mounted on the second arm, a tally disk journaled on the second shaft and slidable inwardly and outwardly longitudinally of the second shaft, the tally disk being supplied on its inner side with a ratchet wheel, wherewith the actuating pawl cooperates, a back stop pawl cooperating with the ratchet wheel and movably mounted on the body, spring means on the second shaft and engaging the tally disk to restrain yieldably the outward movement of the tally disk on the second shaft and let the actuating pawl click over the ratchet wheel when the lever is raised and whilst the back stop is engaged with the ratchet wheel to hold the tally disk against retrograde rotation, spring means for moving the back stop pawl outwardly, so that the back stop pawl will keep its hold on the ratchet wheel as the tally disk moves outwardly to let the actuating pawl click over the ratchet wheel, and spring means for raising the lever, the lever engaging the body to stop the downward movement of the lever when an article is hung on the suspension element of the lever, and the lever engaging the body when the lever is swung upwardly by the spring means for raising the lever.

1,923,195

HEAT INSULATING STRUCTURE

Joseph L. Finck, Washington, D. C.

Application November 9, 1928. Serial No. 318,244
9 Claims. (Cl. 20—4)



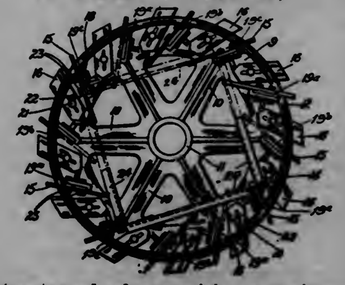
1. A heat insulating structure including spaced apart walls forming an intervening insulation space and provided upon their inner surfaces with an adhesive coating, and loose insulating material filling the insulation space and containing throughout the body thereof a granulated adhesive, said adhesive coatings and said granulated adhesive having become effective upon heating the structure to impart the desired tackiness to the adhesive and cooling thereof.

1,923,196

TRACTION WHEEL

Albert John Fortescue, Arncliffe, New South Wales, Australia

Application August 12, 1930, Serial No. 474,727, and in Australia April 29, 1930
3 Claims. (Cl. 301—41)



3. A tractor wheel comprising a main portion provided with a single narrow tire having lateral projections within the inner circumference thereof receiving inclined tread plates of different lengths disposed in series each tread plate adapted to engage when the wheel rolls, an area of ground undisturbed by the next preceding tread plate, said tire being provided with recesses formed alternately on opposite sides thereof and receiving inclined extensible gripping spuds secured to the respective tread plates, a plurality of extensible supporting spuds disposed in the main portion of the wheel between the gripping spuds and parallel to the median plane of the wheel, said supporting spuds being adapted to relieve the gripping spuds of a portion of the load upon the wheel when moving over hard ground and also preventing damage to the tractor by obviating bumping of the wheel over hard surfaces, and a frame secured to and supporting the outer ends of the longest tread plates.

1,923,197

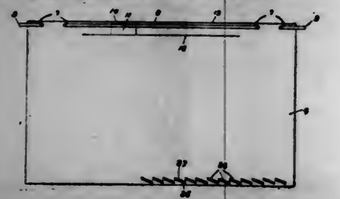
CARD STRUCTURE

Stanley B. Freiberg, Cincinnati, Ohio, assignor to The International Visible Systems Corporation, Cincinnati, Ohio, a Corporation of Ohio

Application November 15, 1930
Serial No. 495,861
21 Claims. (Cl. 129—16.7)

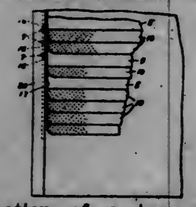
1. In a device of the class described the combination of a card body, a card-mounting member

extending along a face of the card body in close proximity therewith, a slide associated with the card body, and a tab on the slide disposed for sliding movement between the mounting member and the adjacent face of the card.



16. An index card having indexing means constituted partly of oblong windows disposed obliquely to an edge of the card.

1,923,198
RECORD BLANK
Stanley B. Freiberg, Cincinnati, Ohio, assignor to The International Visible Systems Corporation, Cincinnati, Ohio, a Corporation of Ohio
Application December 16, 1930
Serial No. 502,689
1 Claim. (Cl. 129—16)



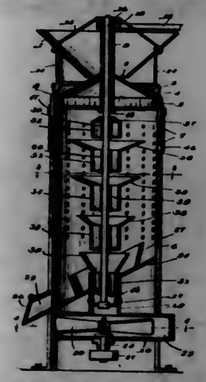
The combination of a tray for removable mounting of record cards, and record cards mounted in overlapping relation so as to expose to view a marginal portion of each record card, the cards each having spaced dots upon its exposed portion for effecting contact between the exposed portions and the overlapped portions of such cards, the dotted areas each providing a back-ground upon which written matter may be legibly applied.

1,923,199
BATTERY CABLE TERMINAL TONGS
Perry H. Hackney, Charleston, W. Va.
Application May 4, 1932. Serial No. 609,317
2 Claims. (Cl. 29—35)



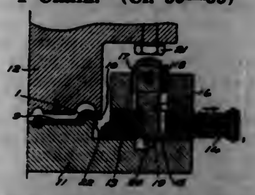
1. A terminal lifting tool comprising a primary and an auxiliary jaw, means for pivotally securing the jaws together, one of the jaws being provided with a pair of spaced inwardly turned tapering points adapted to fit between the spaced jaws of a battery terminal, said points being formed substantially wedge-shaped and having inclined side walls merging into the side walls of the jaw which carries the points, the inner faces of the points being arranged in substantially parallel relation and terminating at their inner ends in a curved wall to facilitate the straddling of the bolt of a terminal and to facilitate the lifting of a terminal from a battery post without the accidental slipping of the terminal from between the points, and terminal gripping means carried by the other jaw.

1,923,200
SEPARATING DEVICE
Roy E. Hedberg, Grenfill, Saskatchewan, Canada
Application May 6, 1930. Serial No. 450,254
3 Claims. (Cl. 209—150)



1. In a separating device, a circular feed table to receive a substance and from the rim of which table the substance flows in tubular form, a central feed hopper to discharge onto the table, a casing in which the flow occurs, and a tapering annulus above the rim of the table and means to adjust the feed table relatively to the annulus to vary the thickness of the wall of flowing substance.

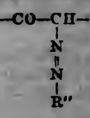
1,923,201
MANUFACTURE OF LINKS FOR CHAIN CABLES
Arvid Otto Hedfors, Stockholm, Sweden
Application July 21, 1931, Serial No. 552,258, and in Sweden September 4, 1929
1 Claim. (Cl. 59—35)



A method of manufacturing links for chains of the character described from profile rolled or drawn bar material in a cold state, comprising simultaneously shaping the outer edges of the link to form a tongue and punching an opening in the link to receive the tongue of a corresponding link in a single operation, placing the partially formed link on a die, simultaneously shaping the tongue and bending the end of the same downwardly over a portion of the die by applying forces vertically and horizontally on the tongue of the link and finally placing the link on a die, positioning a shaping rod in the loop formed by the partially bent tongue and simultaneously applying forces vertically and horizontally on said link to bend the tongue downwardly and horizontally about said rod, all of said steps being performed while the material is at substantially atmospheric temperature.

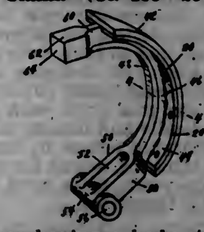
1,923,202
WATER-INSOLUBLE AZO-DYESTUFFS AND FIBER DYED THEREWITH
Frans Henle and Herbert Kracker, Frankfort-on-the-Main-Hoechst, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware
No Drawing. Application April 24, 1931, Serial No. 532,690, and in Germany May 9, 1930
10 Claims. (Cl. 260—86)

1. The water-insoluble azo-dyestuffs of the following probable general formula



wherein R and R' stand for radicals of the benzene-, naphthalene- or diphenyl-series, R'' stands for a radical of the benzene-, naphthalene- or anthracene-series, the radicals being free from sulfonic- or carboxylic acid groups, dyeing yellow to red shades and being distinguished by their good fastness properties, particularly by their good fastness to light.

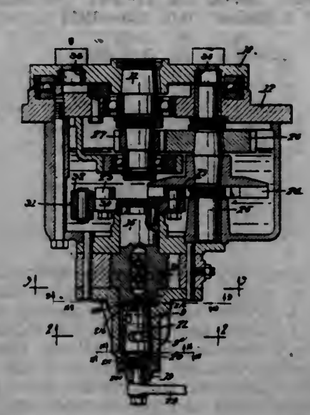
1,923,203
BRAKE SHOE
Erik J. Hirvonen, Worcester, Mass., assignor, by mesne assignments, to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois
Original application January 27, 1925, Serial No. 5,129. Divided and this application December 31, 1928. Serial No. 329,521
1 Claim. (Cl. 188—250)



A brake shoe having a body structure and a strengthening rib extended lengthwise thereof which has a pair of spaced arms at one end, and means integrally connecting the ends of said arms.

1,923,204
INDEXING DEVICE
Eric J. Hirvonen, Worcester, Mass., assignor to Leland-Gifford Company, a Corporation of Massachusetts
Application July 3, 1929. Serial No. 375,778
8 Claims. (Cl. 90—56)

1. In an indexing device, the combination with a motor and a shaft therefor, of means for rotating the motor shaft intermittently always in the same direction half a revolution at a time and then stopping it, a pair of rolls located diametrically opposite each other and mounted on said shaft, a Geneva wheel located at the side of said shaft in position to be turned through a predetermined arc by each of said rolls as the



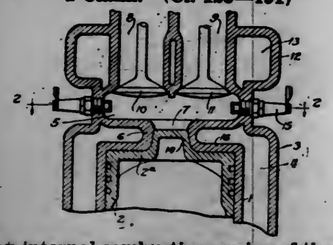
motor turns throughout half a revolution, a shaft parallel with and at one side of said motor shaft on which the Geneva wheel is fixed, a third shaft in the axial line of said motor shaft, replaceable gears for connecting the last-named shaft with the Geneva wheel shaft, and an indexing wheel on the third shaft whereby the indexing speed can be changed by changing said gears.

1,923,205
FLUID OPERATED TOOL
John R. Hoffman, Madison, Wis., assignor to Madison-Kipp Corporation, Madison, Wis., a Corporation of Wisconsin
Application January 30, 1931. Serial No. 512,446
2 Claims. (Cl. 121—20)



1. In a fluid-operated hand tool of the impact type, the combination of a tool body having a hammer chamber with inlet openings leading thereto; a hammer located in said chamber; impact-transmitting means located at the forward end of said chamber for engagement by the hammer; and means for distributing motive fluid to said inlet ports for reciprocating the hammer, the volume of free space in the forward end of said chamber being greater than that of the free space in the rear end of the chamber when the hammer is midway between its extreme positions.

1,922,206
INTERNAL COMBUSTION ENGINE
Harry L. Herning, Waukesha, Wis., assignor to Waukesha Motor Company, Waukesha, Wis., a Corporation of Wisconsin
Original application July 14, 1923, Serial No. 651,503. Divided and this application December 2, 1929. Serial No. 410,907
1 Claim. (Cl. 123—191)



In an internal combustion engine of the aspiration type in which the fuel is drawn into the cylinder in a gaseous state on the suction stroke, a cylinder, a piston operating in the cylinder, a cylinder head containing a relatively thin and flat combustion chamber directly over the cylinder and extending over the cylinder area, a wall between the cylinder and the chamber and forming a flat roof over the cylinder area and normal to the cylinder axis, said wall being provided with an opening therethrough establishing communication between the cylinder and the chamber, the head being provided with burnt gas outlet and fuel mixture inlet passages opening through the roof of the chamber, overhead valves controlling said passages, and spark means extending into the chamber substantially radially thereof and disposed to ignite the fuel charge in the chamber at a point adjacent the surrounding wall of said chamber.

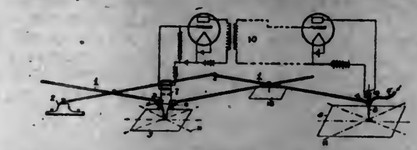
1,923,207
VACUUM AUTOMOBILE VENTILATOR
Clarence R. Hosler, Findlay, Ohio
Application March 30, 1932. Serial No. 602,042
2 Claims. (Cl. 98—2)



1. A window ventilator comprising a plurality of longitudinally tapering sections each having the smallest end thereof arranged in the largest end of an adjacent section, and all of said sections being open on one side thereof for the full length thereof.

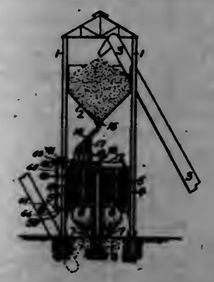
1,923,208
PANTOGRAPHIC SCANNING
Walter Howey, New York, N. Y.
Application May 7, 1930. Serial No. 450,349
6 Claims. (Cl. 33—25)

1. In a universal scanning device, an articulated system of interconnected arms in adjustable pivotal relation to each other, a support on one of the arms for a light sensitive tracing media adapted to follow a path defined by contrast of light reflections of a given surface, a device positioned on another arm of the system including



means to reproduce said path upon another surface, and means to render the reproducing means inoperative upon departure of the tracing media from said path in a direction parallel to the plane of said path.

1,923,209
PLANT FOR THE CARBONIZATION OF COAL AND LIKE MATERIAL
Stewart Roy Illingworth, Radyr, Wales, assignor, by mesne assignments, to Pittsburgh Coal Carbonization Company, Wilmington, Del., a Corporation of Delaware
Application November 29, 1929, Serial No. 410,566, and in Great Britain November 29, 1928
8 Claims. (Cl. 202—115)

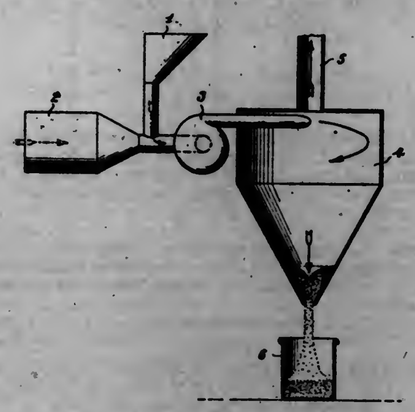


1. In an apparatus for the continuous treatment of material, the combination of a series of stationary vertical retorts arranged in a circular row, charging means for said retorts mounted to rotate in a circular path above said retorts coaxially with the circular row, said charging means embodying devices for delivering a measured quantity of coal to each retort in sequence automatically when the charging means is rotated, means for periodically effecting discharge of the treated material from each retort in sequence automatically and devices adapted to operate the discharging means in timed relationship with said charging means for automatically recharging each retort after each discharge of treated material therefrom.

1,923,210
PROCESS FOR PRODUCING HIGHLY STORAGEPROOF BLEACHING POWDER
Max Jaeger, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application October 21, 1930, Serial No. 490,322, and in Germany October 26, 1929
3 Claims. (Cl. 23—96)

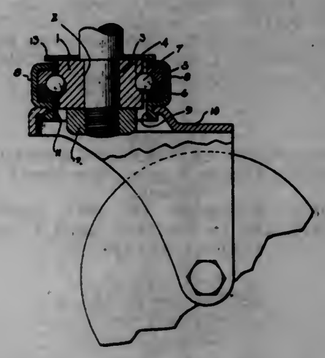
1. A process for producing highly storageproof bleaching powder which comprises suddenly contacting undried finely divided bleaching powder in a state of high dispersion with a current of air heated to at least about 150° C.,

and thereby suspending the powder in the air and after a period not exceeding a few seconds



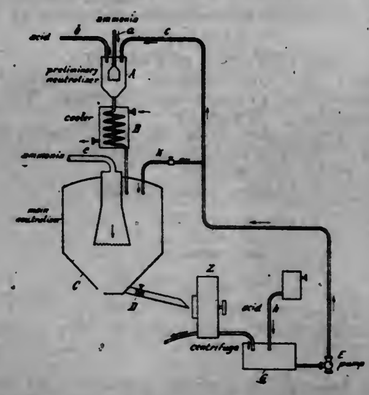
separating the bleaching powder from said heated air.

1,923,211
BEARING
Frank J. Jarvis, Palmer, Mass., assignor to Jarvis & Jarvis, Inc., Palmer, Mass., a Corporation of Massachusetts
Application February 12, 1930. Serial No. 427,825
2 Claims. (Cl. 308—196)



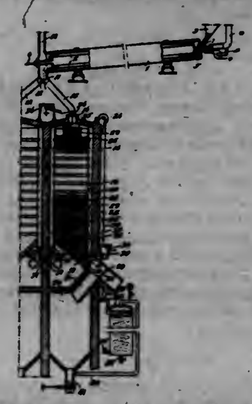
1. A bearing comprising an annular inner race member with an axial opening therethrough and with a ball race around its periphery, outer annular ball race means having a ball race around its inner surface comating with the race in the inner member, bearing balls in the aligned races and a ductile binder plate pressed over the two ends and the outer periphery of the outer race means, the portion at one end being extended in a direction substantially parallel with the axis of the axial opening in the bearing, said extension being of length sufficient to permit its outer end being bent back parallel to the portion engaging the adjacent end of the outer bearing and towards the periphery thereof to leave a space intervening between said bent end and the portion engaging the adjacent end of the outer bearing means.

1,923,212
PRODUCTION OF AMMONIUM COMPOUNDS
Friedrich Jost, Bernig near Herne, and Günther Hornung, Herne, Germany, assignors to the firm Patentverwertungs A. G. "Alpina," S. A. pour l'Exploitation de Brevets "Alpina", Patents Exploitation Cy. "Alpina" Ltd., Basel, Switzerland
Application February 6, 1930, Serial No. 426,426, and in Germany February 11, 1929
14 Claims. (Cl. 23—119)



2. The process of producing an ammonium salt by neutralizing an acid with ammonia comprising first diluting the acid, cooling same and thereafter effecting neutralization.

1,923,213
PROCESS AND APPARATUS FOR CARBONIZING COAL
Lewis C. Karrick, New York, N. Y.
Application May 23, 1928. Serial No. 280,026
12 Claims. (Cl. 202—13)



1. A process for heating a thick mass of solid carbonizable material to produce massive blocks of coke and other substances, which comprises effecting a heating of the material at a carbonizing temperature without access to the air from a heat source positioned in recurring convolutions throughout the mass of said material to produce substantially even distillation, said heat source simultaneously serving to compress the coke and forcibly rupturing the residue by the application of force at points along the recurring convolutions

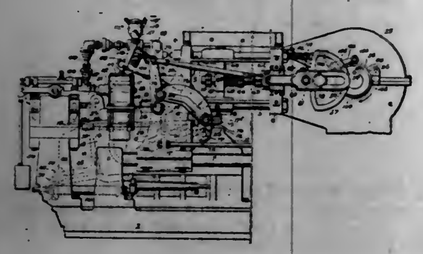
of the heat source, whereby the residue may be broken into desired pieces.

3. The combination with a reaction chamber comprising walls adapted to retain solid carbonizable material when delivered thereinto, of a flexible heating element arranged within said chamber for contacting with material in the chamber, and a plurality of fragile members supporting the heating element within said chamber which are adapted to be ruptured by the forcible removal of said heating element.

1,923,214
DIE-CASTING APPARATUS

Torbjorn C. Korsmo, Madison, Wis., assignor to Madison-Kipp Corporation, Madison, Wis., a Corporation of Wisconsin

Original application June 29, 1931, Serial No. 547,737. Divided and this application April 16, 1932. Serial No. 605,756
9 Claims. (Cl. 22—69)



2. The combination in a die-casting machine of a melting pot having a cover; a goose neck supported in the melting pot by said cover, the cover being formed with a dome-shaped metal-receiving portion surrounding one of the legs of the goose neck; and a depending metal-charging shaft for the pot located in said dome-shaped portion.

1,923,215
METHOD OF JOINING LEATHER, ETC.

Otto Peder Krogh, Copenhagen, Denmark

No Drawing. Application October 2, 1929, Serial No. 396,925, and in Germany August 30, 1927
16 Claims. (Cl. 154—40)

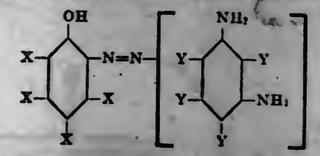
1. A method for joining parts of fibrous material which comprises applying a latex mixture containing vulcanizing agents but free from active vulcanization accelerators, to said parts to be joined, allowing said applied latex mixture to dry, applying to the parts previously treated with latex mixture a solution of an accelerator in a volatile rubber solvent material and thereafter pressing said parts together.

1,923,216
METAL COMPOUND OF O-HYDROXYAZO DYESTUFFS

Hans Krzikalla, Mannheim, and Franz Bluemmel, Seckenheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application November 20, 1928, Serial No. 320,747, and in Germany November 29, 1927
6 Claims. (Cl. 260—12)

1. As products, the complex compounds of a metal selected from the group consisting of copper and chromium with o-hydroxyazo dyestuffs of the general formula



wherein one X stands for chlorine or the nitro group, one X for hydrogen or the sulfonic acid group and the other X's represent hydrogen or chlorine or the nitro group, and wherein one Y in ortho-position to one of the amino groups represents the linkage to the azo group, one Y stands for hydrogen or for a substituent of the group consisting of halogen, the alkyl radicle and the nitro group, and the other Y's represent hydrogen.

1,923,217
METHOD AND APPARATUS FOR POLLINATING PLANTS GROWN UNDER GLASS

Wheeler Lafferty, Lakewood, Ohio

Application September 29, 1932
Serial No. 635,351
9 Claims. (Cl. 47—17)

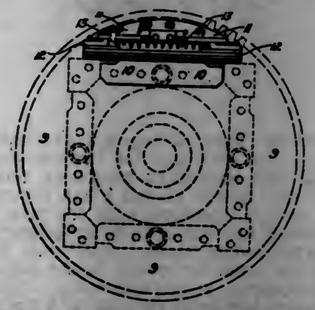


1. A method of pollinating under wind-excluding conditions plants normally fertilized through the action of the wind which comprises supporting said plants as a unit and intermittently agitating the same likewise as a unit.

1,923,218
CASTING OF PRINTING FURNITURE

Basil Monrad Lanser, Sydney, New South Wales, Australia

Application September 18, 1931, Serial No. 563,610, and in Australia April 1, 1931
2 Claims. (Cl. 199—55)

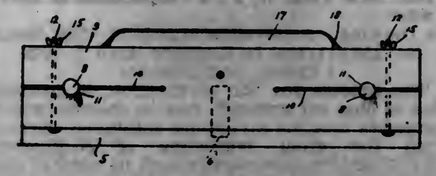


1. Means for the casting of slugs for use as furniture, comprising a mould body, a mould cap therefor, said mould cap being provided with spaced ribs extending from the rear to the front of the mould cavity and certain of said ribs being cut away, and a liner disposed beneath the cut away portion of the mould cap for forming a step in the slug cast in said mould body.

1,923,219
DUPLICATOR

Benjamin Parker Lewis, Rolla, Mo.

Application October 5, 1932. Serial No. 636,416
1 Claim. (Cl. 101—131)



In a duplicator including a frame and shafts journaled therein and each having one end projecting beyond a side of the frame, a board fastened to the outer face of said side of the frame and having a shaft receiving opening adjacent each end thereof, said openings receiving the projecting ends of the shafts, said board having longitudinally extending slits therein intersecting the openings, each slit extending from an end of the board to a point adjacent the transverse center thereof, a bolt passing transversely through each end portion of the board and passing through a slit between an opening and an end of the board and a nut on each bolt, whereby when the nuts are tightened, the bolts will clamp the slit portions of the board on the shafts.

1,923,220
VENT PIPE JOINT GUARD

Edward N. Lightbown, Brentwood, Md.

Application June 8, 1932. Serial No. 616,145
1 Claim. (Cl. 285—31)



A joint guard for the joint between a vent pipe and the tubular portion of its flashing and consisting of a tubular body member having a length sufficient to extend from the top of the vent pipe to a point below the joint of the pipe and its flashing, and an inturned cuff formed on the upper end of the body and adapted to extend down into the top of the vent pipe, said body being tapered outwardly from the upper end downwardly to a point approximately on the level of the upper end of the flashing and having its lower end arranged to fit tightly against the outer surface of the tubular portion of the flashing. The lower end of the body being curvingly tapered inwardly to fit at its lower edge flat against said tubular portion of the flashing.

1,923,221
PROCESS OF MELTING GLASS

Fred M. Locke, deceased, and Fred J. Locke, deceased, Victor, N. Y., by Mercie P. Locke, Victor, N. Y., executrix and administratrix de bonis non, assignor to Corning Glass Works, Corning, N. Y.

No Drawing. Application March 23, 1931
Serial No. 524,769
28 Claims. (Cl. 49—77)

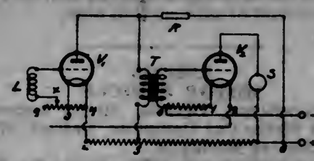
1. The method of melting a batch containing a substantial quantity of oxide more reducible than ferrous oxide and the product of reduction of which does not substantially color the resultant glass in contact with carboniferous material.

10. The method of making glass which consists in melting a suitable glass batch containing an oxidizing agent in a graphite container, and during such melting forming from ingredients in the batch a film about the glass to prevent carbon of the container affecting the color of the glass.

1,923,222
MEANS FOR THE ELIMINATION OF RIPPLES IN CASCADE COUPLED THERMIONIC VALVES

Erik Olof Löfgren, Stocksund, Sweden, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a registered company of Sweden

Application July 28, 1930, Serial No. 471,295, and in Sweden August 3, 1929
1 Claim. (Cl. 179—171)



In an electric apparatus having thermionic tubes connected in cascade by means of transformers, an ohmic voltage divider connected to a direct current source, and a number of tappings from said voltage divider for the supply of anode and grid direct-current voltages to said tubes, the combination of a high ohmic resistance connecting the anode of a preceding tube with the voltage divider at a point thereof having a high positive potential in relation to the cathode of said tube, with a current path from the same anode, through the primary winding of the next cascade transformer and to the voltage divider at another point thereof having also a high positive potential in relation to said cathode but a less potential than the former point.

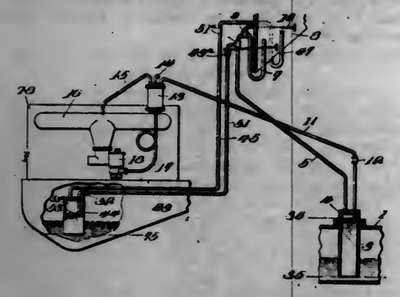
1,923,223
MOTHPROOFING SUBSTANCES

Wilhelm Lommel and Heinrich Münzel, Leverkusen-Wiesdorf-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application December 5, 1930, Serial No. 500,420, and in Germany December 31, 1929
6 Claims. (Cl. 167—37)

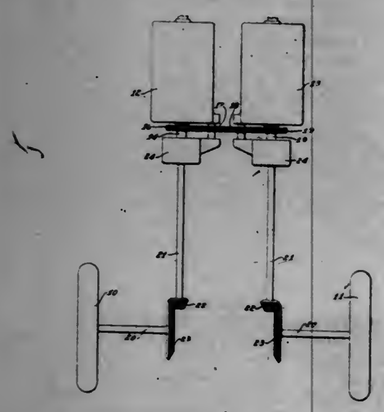
1. As a new moth-proofing substance a colorless strontium salt, being soluble either in water or in organic solvents, and which does not possess a poisonous anion.

1,923,224
LIQUID LEVEL GAUGE
Harmon D. Moise and Herbert W. Beall, Sumter, S. C., assignors to Vacuum Gauge Company, Sumter, S. C., a Corporation of South Carolina
Application December 27, 1924
Serial No. 758,386
8 Claims. (Cl. 73—54)



3. In a liquid level gauge, in combination with a liquid containing tank, a standpipe extending from near the top of said tank to the maximum depth to be indicated, a pressure responsive gauge, conduit means establishing communication between said gauge and the upper portion of said standpipe adjacent the top of the tank, a suction pipe having one end depending from and adjacent the top of said standpipe, with its opening facing downwardly; said end having an opening below the opening of the conduit means and means for creating a suction and connected to the other end of said suction pipe.

1,923,225
MOTOR VEHICLE
Alfred Moorhouse, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan
Application February 5, 1931. Serial No. 513,604
4 Claims. (Cl. 180—54)



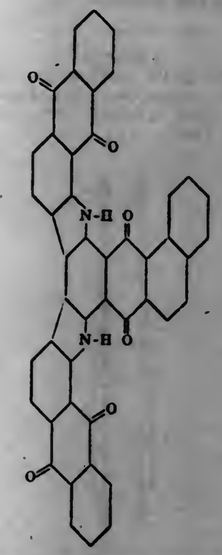
1. In a motor vehicle, the combination of two parallel driving shafts positively geared together, two independently rotable traction wheels, and transmission mechanism connecting each shaft with one of said traction wheels, each said mechanism including a non-positive torque transmitter.

1,923,226
PROCESS FOR THE PURIFICATION OF BLUE VAT DYESTUFFS
Paul Nawiasky, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works Inc., New York, N. Y., a Corporation of Delaware
No Drawing. Application March 28, 1929, Serial No. 350,811, and in Germany April 7, 1928
1 Claim. (Cl. 260—31)

The process for the purification of greenish blue to blue vat dyestuffs fast to chlorine which comprises treating an impure substance, selected from the group consisting of N-dihydro-1.2.1'.2'-anthraquinoneazine and its methyl and sulphonic acid derivatives, with manganese dioxide in sulphuric acid.

1,923,227
DYESTUFFS OF THE ANTHRAQUINONE SERIES
Paul Nawiasky and Otto Chrzescinski, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware
No Drawing. Application June 7, 1930, Serial No. 459,827, and in Germany June 14, 1929
5 Claims. (Cl. 260—46)

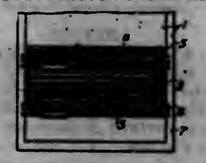
5. Vat dyestuffs probably corresponding to the formula:



in which the anthraquinone radicles may be substituted in the alpha-positions by benzoylamino radicles, the dyestuffs being soluble in concentrated sulphuric acid and dyeing cotton brown shades from red brown vats.

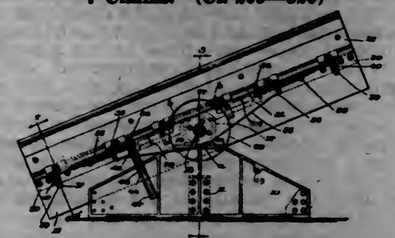
1,923,228
STORING BOX
Georg Rahn, Frankfort-on-the-Main, Germany
Application November 8, 1929, Serial No. 405,751, and in Germany November 9, 1928
6 Claims. (Cl. 312—55)

2. A case for storing and dispensing superposed packages of different contents comprising a receptacle with an open front and a plurality of slides provided with means for engaging and withdrawing a package nested within the stack of packages mounted in the receptacle and adapted to be moved horizontally, each slide being freely mounted for vertical movement in said receptacle



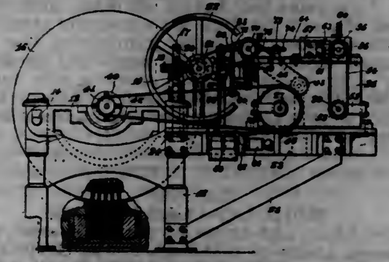
to compensate for the space left in the stack by the removal of a package from the supporting stack therebeneath, and means for retaining the packages supported by the package withdrawn.

1,923,229
SCREENING APPARATUS
Samuel Davis Robins, Hewlett, N. Y., assignor to Robins Conveying Belt Company, Passaic, N. J., a Corporation of New Jersey
Application March 7, 1931. Serial No. 520,842
7 Claims. (Cl. 209—326)



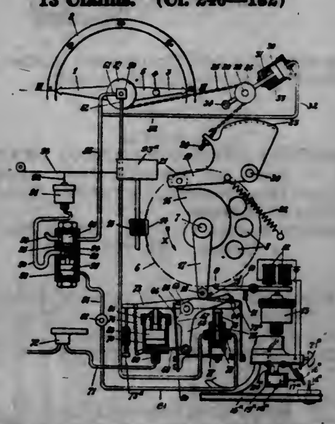
1. A screen of the character described comprising a screening frame, means including a shaft and connections for gyrating said frame in vertical orbits, stationary bearings for said shaft, stabilizing leaf springs and means connecting the extremities of said springs and screening frame comprising members which are rigid along the line of action of the ends of said springs yet are inherently resilient at right angles thereto along the leaves of the springs.

1,923,230
APPARATUS FOR ADJUSTING BEATER ENGINE ROLLS
Christian Charles Riehm, Methuen, Mass.
Application February 16, 1932. Serial No. 593,355
17 Claims. (Cl. 92—24)



1. In combination with a beating roll, its shaft, shiftable supports for the shaft, and beater means for moving the supports, of a gear train, means for constantly driving the gear train from the shaft, drive members connected to different portions of the gear train, and means for connecting either of the drive members to the support moving means to shift the supports and beating roll in opposite directions.

1,923,231
CONTROL AND SAFETY DEVICE FOR RAILWAYS AND TRAMWAYS
Eloi Rodolausse, Saint-Antonin in Tarn-et-Garonne, France
Application August 12, 1932, Serial No. 628,588, and in France August 25, 1931
13 Claims. (Cl. 246—182)

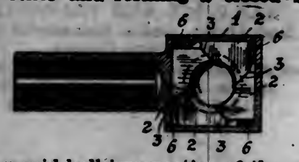


1. Control and safety device for railways and tramways, comprising in combination two hands rotatable in front of a dial, the one hand rotatable on a pivot and indicating at each instant the speed of the train on said dial, the other control hand, mounted on a support and adjustable by said support in front of a graduation of the said dial, being pivotable on said support by contact with the first mentioned hand to thereby open a valve, a wheel normally out of mesh with a chronometrical tachometer of the train, means set in action by a detent placed in any part of the line to set said wheel on mesh with said chronometrical tachometer, a flexible tie connecting a lever operated by a cam keyed on the axle of said wheel to said control-hand in such a manner that said control hand will be moved towards the zero of the dial when said wheel is set in action, a piston movable and equilibrated in a cylinder against the pressure in the main canalization of the brakes communicating to said cylinder, a roller carried by the rod of said piston and around which said flexible tie is guided whereby said control-hand will be displaced in front of said dial consistently with the pressure reigning in the main canalization of the brakes, independently of the position initially given to said control hand and independently of the functioning of said wheel and cam, a valve operated by a pivotally mounted lever when said wheel is set in action, a piston operated by the brake control of the driver and neutralizing said pivotally mounted lever when the driver operates the brakes, whereby said valves will stop operation of the relay valve.

1,923,232
BALL JOINT FOR GAUGE RODS AND STEERING RODS ON MOTOR VEHICLES
Adolf Röbig, Frankfort-on-the-Main-Nied, Germany
Application February 2, 1932, Serial No. 590,493, and in Germany October 14, 1931
3 Claims. (Cl. 287—90)

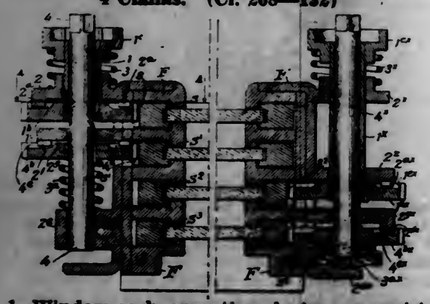
1. In a ball joint, a housing having a polygonal aperture, a ball therein, a ball cup formed of sections shiftably arranged in said aperture, each section engaged with a face of the aperture and

said ball cup sections having sliding engagement with each other and forming a closed bearing



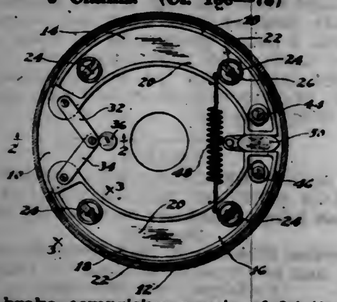
surrounding said ball irrespective of the relative movements of the ball in the housing.

1,923,233
WINDOW SASH OPERATING DEVICE
David E. Ross, La Fayette, Ind., assignor to Rostone, Incorporated, La Fayette, Ind., a Corporation of Indiana
Application August 15, 1932. Serial No. 628,947
4 Claims. (Cl. 268—132)



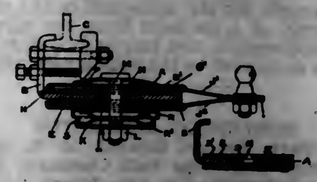
1. Window sash operating devices comprising a plurality of independently endwise movable and rotatable axially alined and nested shafts, a gear fixed on each shaft adapted to engage a rack on a related sash, spring means for holding each shaft in normal position, and means for locking the gear when its shaft is in normal position, the related locking means being disengaged by endwise movement of the shaft out of normal position and being re-engaged upon the return of said shaft to normal position.

1,923,234
BRAKE
Roy S. Sanford, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois
Original application January 18, 1928, Serial No. 247,595. Divided and this application December 3, 1930. Serial No. 499,685
6 Claims. (Cl. 188—78)



1. A brake comprising a pair of friction elements having therebetween and connected by a floating expansible articulating joint including a toggle through which one element operates to apply the other, and a stop engaging the toggle and acting through the toggle to position the friction elements.

1,923,235
STEERING AND OTHER DAMPING DEVICE FOR AUTOMOBILES
Frank Smith, Ellland, England
Application July 7, 1930, Serial No. 466,300, and in Great Britain September 12, 1929
5 Claims. (Cl. 188—130)



1. In combination with the steering device of a motor vehicle, of means for varying the braking action upon the turning of the steering device from its normal straight path, said means including opposed plates, each plate having a portion maintained in continuous engagement with a corresponding portion of the other plate during a turning movement of the device and spaced radial portions normally in engagement with corresponding portions on the other plate, so as to exercise a maximum braking effect on the steering device and to reduce their frictional engagement upon the turning of the steering device from its straight path.

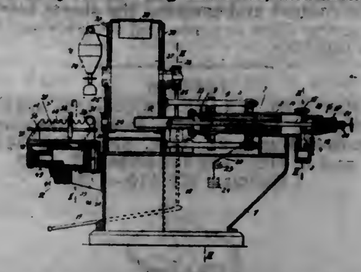
1,923,236
GAME BALL
William A. Sennett, Cincinnati, Ohio, assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio, a Corporation of Ohio
Application April 30, 1929. Serial No. 359,289
3 Claims. (Cl. 272—65)



1. In a game ball having an outer cover composed of tough material with inwardly extending stitched seams, means for reinforcing the said stitched seams comprising semi-rigid members laid along said seams and provided with means for retaining said members along said seams comprising a layer of inner covering material stitched to said stitched seams.

1,923,237
MOLD AND CORE MAKING
Albert Stahn and Bruno Berghaus, Hanover, Germany, assignors to Albertuswerke Gesellschaft mit beschrankter Haftung, Hanover-Hainholz, Germany
Application July 31, 1930, Serial No. 471,969, and in Germany July 31, 1929
18 Claims. (Cl. 22—36)

1. Mold and core making machine comprising a reservoir, rotatable about a substantially horizontal axis, for the reception of a supply of molding material, a hollow cutter, means for introducing said cutter into said reservoir to cut out a coherent body of molding material, and means for



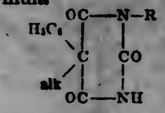
shooting such undivided body into molding position.

1,923,238
PROCESS OF MAKING PURIFIED EXTRACTS FROM DRUGS CONTAINING DIGITALIS GLYCOSIDES
Walter Straub, Munich, Germany
No Drawing. Application February 5, 1931, Serial No. 513,780, and in Germany February 8, 1930
4 Claims. (Cl. 87—23)

1. The process of making purified extracts from drugs containing digitalis glycosides, consisting in extracting suitable initial materials, such as digitalis purpurea, convallaria and the like with a solvent having a low boiling point and being neutral and an aliphatic organic in nature and diluted with water in such a ratio that the chlorophyll contained in the respective initial material will just be prevented from being dissolved; and precipitating there after the impurities present in the extract with the aid of colloidal ferric hydrate in a single step of operation.

1,923,239
BARBITURIC ACID DERIVATIVE
Ludwig Taub and Walter Kropp, Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York
No Drawing. Application June 19, 1930, Serial No. 462,413, and in Germany July 8, 1929
5 Claims. (Cl. 260—33)

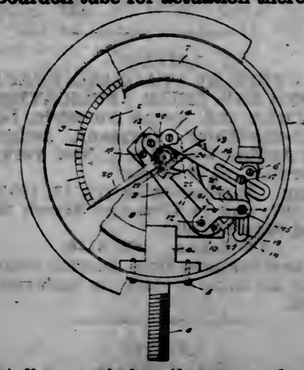
1. The barbituric acid derivatives of the probable general formula



wherein "alk" means an alkyl group, "R" means a saturated alkyl group of 1 to 2 carbon atoms, said products being colorless, practically tasteless substances, soluble in aqueous alkalies, forming salts with inorganic and organic bases, being pharmaceutically valuable products.

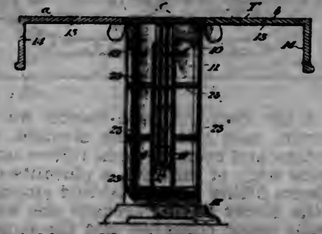
1,923,240
PRESSURE GAUGE
Steven G. Tarr, Whiting, Ind.
Application February 23, 1932. Serial No. 658,180
5 Claims. (Cl. 73—100)

1. A pressure gauge comprising a casing, a Bourdon tube operatively mounted in the casing, means for connecting the Bourdon tube with a source of actuating fluid, a supporting structure mounted in the casing, a lever pivotally mounted on the supporting structure, a gear on the lever, an arm pivotally mounted on the supporting structure, said arm connected with the free end of the Bourdon tube for actuation thereby, a rack



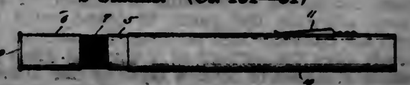
bar pivotally mounted on the arm and operatively engaged with the gear, a pointer mounted on the casing, and means operatively connecting the pointer to the lever for actuation by said lever.

1,923,241
TABLE CONSTRUCTION
William Todd, Leominster, Mass.
Application February 29, 1932. Serial No. 595,964
11 Claims. (Cl. 45—116)



1. In a table or like structure, a main table top including two sections, each having at one end thereof a lateral extending portion, supporting structure for said table top, and means between said table top and said support permitting said sections to be moved, independently of the other, to a vertical position within the supporting means with said lateral extending portions thereof in a horizontal plane forming a table top of different dimensions but in substantially the same plane previously occupied by the main table top.

1,923,242
COMBINED HOLDER AND ASH RECEIVER FOR CIGARS AND CIGARETTES
Fred F. Udine, Williams, Ariz., assignor of one-half to George Banks, Prescott, Ariz.
Application October 20, 1930. Serial No. 490,033
Renewed March 2, 1933
2 Claims. (Cl. 131—51)



1. A device of the class described including a mouth piece for holding a cigar or cigarette, a sleeve slidable thereon and extending therebeyond and having an enlarged extension; that portion of the sleeve between the enlarged extension and the mouth piece being apertured

and constituting means for housing a portion of a cigarette, an ash container spaced from the extension, a screen fixedly connecting said extension to the container, and a closure for the container.

1,923,243

PRODUCTION OF COLORING PREPARATIONS AND THEIR APPLICATION

Heinrich Ulrich and Joseph Nuesslein, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application March 13, 1931, Serial No. 522,507, and in Germany March 20, 1930. Renewed May 23, 1933

10 Claims. (Cl. 8—6)

1. As a new composition a coloring preparation comprising an organic coloring material and a morpholine.

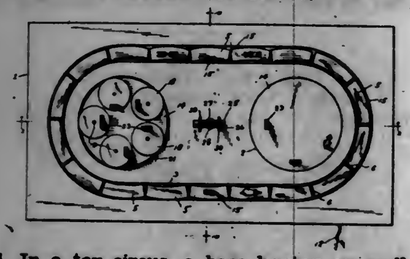
1,923,244

TOY CIRCUS

William Howard Vickers, Liberal, Kans.

Application January 13, 1933. Serial No. 651,578

2 Claims. (Cl. 46—37)



1. In a toy circus, a base having an endless slot therein, said slot having straight parallel side portions and rounded ends, rollers supported on the side walls of said slot, a plurality of elongated blocks fitting in the slot and engaging the rollers, the blocks having arcuate side walls, the inner walls being concaved and the outer walls convex, a vertically arranged endless metallic band to the upper edge of which the blocks are pivotally connected adjacent their front ends, the lower edge of the band having teeth formed therein, a shaft rotatably supported in the base, means for rotating the shaft and a pinion carried by the shaft and engaging the toothed lower edge of the band.

1,923,245

NONSHATTERABLE GLASS AND METHOD OF MAKING SAME

Michael J. Walsh, San Diego, Calif., assignor to Keleo Company, Los Angeles, Calif., a Corporation of Delaware

No Drawing. Application December 7, 1929 Serial No. 412,561

7 Claims. (Cl. 49—81)

6. The method of forming non-shatterable glass, consisting in forming a solution of alginates, allowing the same to stand until free from air bubbles, then pouring the solution uniformly over the surface of a sheet of glass previously cleansed to form a layer or film thereon, subjecting the film to a coagulating bath to form an insoluble film of calcium alginate on the sheet, washing the insoluble film on the sheets in a plurality of baths to remove soluble salts therefrom, at least one of the baths containing a small percent of glycerin; drying the wet insoluble film adhering to the sheet, placing two such coated sheets together with the films in contact and pressing the sheets together to cause the films to unite and securely bond the sheets together.

1,923,246

MECHANICAL GRATE-CHARGING DEVICE

Alexander Erwin Weck, Delau, Germany

Application March 22, 1928, Serial No. 263,818, and in Germany December 17, 1927

4 Claims. (Cl. 110—113)



1. In combination, a fire box having a firing opening and a door therefor, swinging charging means arranged to project fuel through said firing opening and into the fire box said charging means being mounted to rock, so that it can be swung in the direction of the fuel projection clear of the firing opening to inoperative position to afford free and uninterrupted access to the fire box after said door has been opened, operating springs for the charging means, power operated means to rock the charging means against the tension of said springs, means to relieve the tension of said springs to permit said charging means being rocked to said inoperative position.

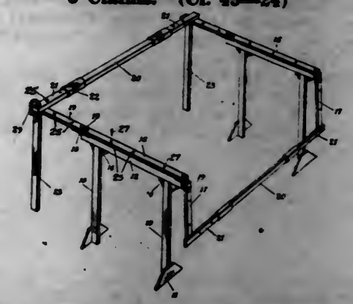
1,923,247

QUILTING FRAME

Dollye Wood, Table Rock, Nebr.

Application March 12, 1932. Serial No. 598,493

3 Claims. (Cl. 45—24)



1. In a quilting frame, a pair of spaced supports, rails seated lengthwise thereon and releasably secured thereto, extensions hingedly secured to said rails at the extremities thereof, means for releasably maintaining said extensions in alignment with said rails, a pair of end rails seated above said extensions and rollable thereon and on said first named rails, means for releasably securing said end rails in any desired position of adjustment on said extensions or on said first named rails, and supplemental legs for supporting said extensions at any desired point in the length thereof, the arrangement being such that said pair of end rails may be rollably supported in operative position on said pair of supports.

1,923,248

PROCESS FOR MAKING 6-BROMO-2-HYDROXY - NAPHTHALENE - 3 - CARBOXYLIC ACID

Arthur Zitscher, Offenbach-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware

No Drawing. Application December 14, 1931, Serial No. 581,080, and in Germany December 15, 1930

1 Claim. (Cl. 260—110)

Process which comprises heating 1.6-dibromo-2-hydroxy-naphthalene-3-carboxylic acid in an alkaline medium with glucose.

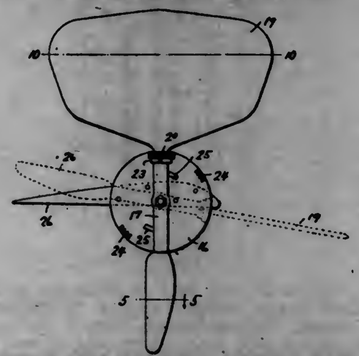
1,923,249

AEROPLANE

Augustus T. Abram, Bronx, N. Y.

Application August 8, 1933. Serial No. 627,978

4 Claims. (Cl. 244—16)



1. In an aeroplane, a laterally disposed plate mounted on said aeroplane, and provided with diametrically opposite series of gear teeth, a member rotatable on an axis concentric to said plate, said member being also provided with a socket, an airfoil member comprising a shank rotatably mounted in said socket, a broad flat fan-shaped head on one end of said shank, and a gear on said shank adapted to mesh with each series of gear teeth for rotating said shank at predetermined points in the rotation of said member.

1,923,250

ORNAMENTING TOOL

Ralph Barone, Newark, N. J.

Application March 1, 1933. Serial No. 659,161

5 Claims. (Cl. 41—5.5)



1. An ornamenting device comprising a block having a face for operation on a surface to be ornamented, and radiating members on the block each having a face in the plane of said block face.

1,923,251

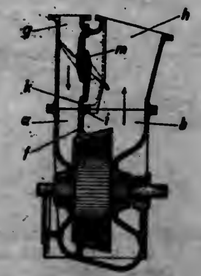
GAS OR STEAM TURBINE CASING

Gustav Baner, Hamburg, and Carl Schmieske, Bremen, Germany

Application May 23, 1932, Serial No. 613,106, and in Germany May 22, 1931

(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)

5 Claims. (Cl. 253—39)



3. A steam or gas turbine having a rotor, a casing enclosing said rotor and having a main supply passage to one end of the rotor and a main exhaust passage from the opposite end of the rotor, said passage having a common dividing wall provided with an opening therethrough, said opening having a valve seat along one edge thereof facing toward said exhaust conduit, and a valve seat along the opposite edge facing toward said supply conduit, and a valve pivoted intermediate of its edges within said opening and having portions for engagement with said seats simultaneously, said valve when open being adapted to permit free flow from the supply conduit to the exhaust conduit.

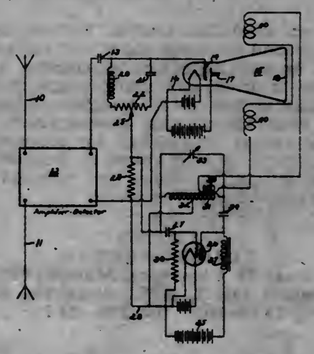
1,923,252

PHASING DEVICE

Archibald H. Brolly, San Francisco, Calif., assignor to Television Laboratories, Inc., San Francisco, Calif., a Corporation of California

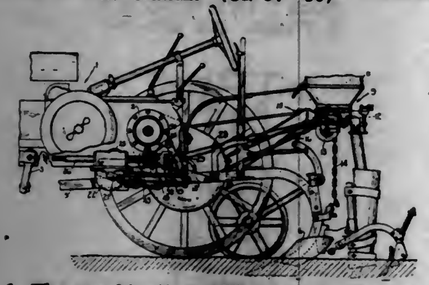
Application May 31, 1930. Serial No. 457,879

7 Claims. (Cl. 178—44)



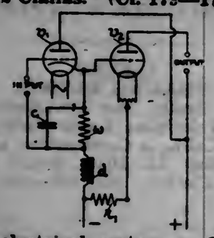
6. In combination with a cathode ray tube having a control electrode therein, a phase shifting network connected across the control electrode circuit, an oscillator for supplying power for deflecting the cathode ray stream, and means for applying a voltage from said network to control said oscillator.

1,923,253
AGRICULTURAL IMPLEMENT
Theophilus Brown, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois
Application April 28, 1930. Serial No. 447,880
17 Claims. (Cl. 97—50)



1. The combination with a tractor having a power take-off of an implement adapted to be driven from the power take-off, connections between the implement and the power take-off including a clutch, and means connected to operate said clutch and adapted to be optionally driven from said power take-off to optionally engage and disengage said clutch.

1,923,254
DIRECT COUPLED AMPLIFIER
Walther Burstyn and Walter Tausig, Berlin, Germany, assignors to Radio Patents Corporation, New York, N. Y., a Corporation of New York
Application June 22, 1932, Serial No. 618,707, and in Germany July 29, 1931
12 Claims. (Cl. 179—171)



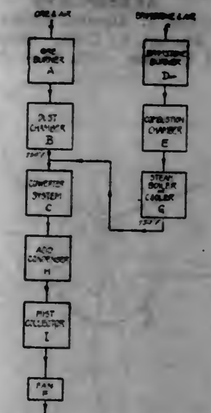
1. In an electrical system, a first discharge valve; a second discharge valve, said valves having cathode, anode, and control electrodes; a source of energy; a direct conductive coupling connection from the cathode of said first valve to the control electrode of said second valve; means including circuit connections for connecting the anode circuits of said valves in parallel across said source; and a choke coil inserted in the cathode lead of said first valve.

1,923,255
TRAILER VEHICLE
Isaac M. Chambers, Altoona, Pa.
Application July 2, 1932. Serial No. 620,708
11 Claims. (Cl. 280—33.1)



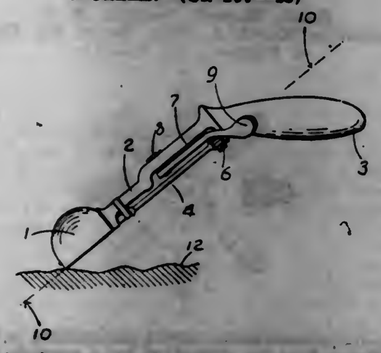
1. In a trailer vehicle, including a frame having rear wheels and having at its forward end means adapted for coupling connection with a tractor, a front support comprising spaced legs rigidly attached to said frame, ground engaging means movable vertically on said legs, and mechanism whereby said ground engaging means are automatically raised clear of the ground when the frame is coupled to a tractor and are automatically and independently lowered and locked to said legs when the frame is uncoupled.

1,923,256
PROCESS OF MAKING CONTACT SULPHURIC ACID
Cyril B. Clark, Scarsdale, N. Y., assignor to Catalytic Process Corporation, New York, N. Y., a Corporation of Delaware
Application March 29, 1930. Serial No. 439,908
12 Claims. (Cl. 23—176)



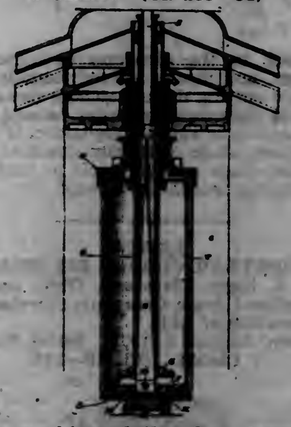
1. In a contract sulphuric acid process, the steps which comprise removing non-gaseous impurities from a relatively impure sulphur dioxide ore-burner gas maintained above conversion temperatures and mixing the heated partially purified gas with a relatively pure sulphur dioxide gas cooled to approximately the temperature of said heated partially purified gas.

1,923,257
ICE-CREAM DIPPER
William M. Dean, Oyster Bay, N. Y.
Application September 30, 1932
Serial No. 635,502
5 Claims. (Cl. 107—48)



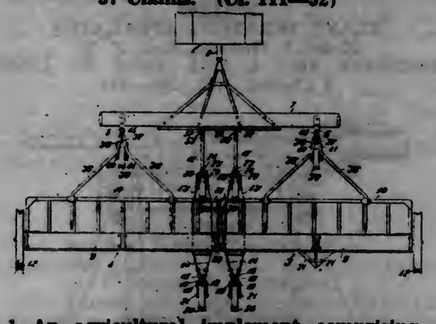
1. An ice-cream dipper or spoon comprising a substantially semi-spherical ice-cream receiving bowl, a handle shank secured at one of its ends to said bowl, and a hand grip rigidly secured to the other end of said shank and disposed at an angle of substantially 45° to and below the plane of the circular mouth of the bowl.

1,923,258
CENTRIFUGE
Alfred E. Drissner and Gustav B. Petsche, Cleveland, Ohio, assignors to The National Acme Company, Cleveland, Ohio, a Corporation of Ohio
Application October 15, 1930. Serial No. 488,862
3 Claims. (Cl. 233—34)



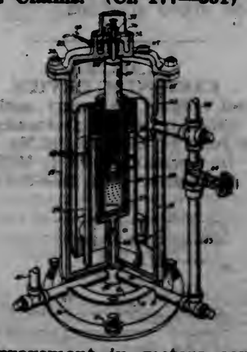
1. In a machine of the class described, the combination of a non-slidable rotary bowl, a disk secured thereto at the bottom thereof, an intake tube located within said bowl for rotation therewith, an inlet tube communicating with the top of said first tube, and a twisted impeller blade secured only at the lower end thereof to said disk and having its upper end adjacent to the inlet tube, said impeller blade extending through the disk.

1,923,259
GRAIN DRILL
Theodore J. Erdman, Horicon, Wis., assignor to Van Brunt Manufacturing Company, Horicon, Wis., a Corporation of Wisconsin
Application July 10, 1930. Serial No. 467,034
37 Claims. (Cl. 111—52)



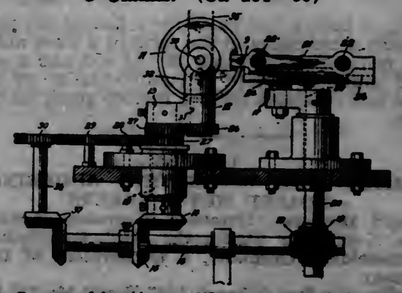
1. An agricultural implement comprising a plurality of separate units, closely spaced seed dropping means on each unit; draft connections for said units adapting them to be positioned in transverse alignment for operation and in tandem alignment for transporting, and supporting means for each unit spaced from the end of the unit so that when the units are in transverse alignment the seed dropping means of one unit is closely adjacent the seed dropping means of the other unit.

1,923,260
FLOW METER
Francis A. Furlong, Chicago, Ill., assignor to Republic Flow Meters Company, Chicago, Ill., a Corporation of Illinois
Application February 24, 1930. Serial No. 430,678
7 Claims. (Cl. 177—351)



1. An improvement in meters comprising a casing, a wall in said casing dividing the interior thereof into two independent wells and a sealing liquid in the outer of said wells, a vessel in the interior well having a liquid therein, a bell having its lower edge immersed in said sealing liquid, means for subjecting the interior and exterior of said bell to differential pressure, a receptacle carried by said bell resting on the liquid in said vessel and subject to the flotative action of said liquid, a conducting liquid in said receptacle, the bell, receptacle and liquid therein forming a mass the center of gravity of which is below the center of buoyancy thereof whereby the bell maintains an upright position throughout its range of movement, impedance means including a displacer dipping into the conducting liquid and guide pins carried by the displacer for keeping the resistance elements centered with respect to the receptacle.

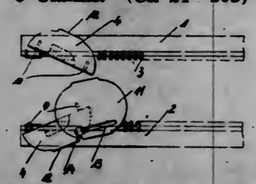
1,923,261
CUT-OFF MECHANISM
Karl E. Garling, Newark, N. J.
Application December 1, 1931. Serial No. 578,296
5 Claims. (Cl. 164—60)



3. In combination with a paper tube forming mechanism for forming and continuously advancing a tube, a cut-off mechanism for said tube comprising, a cutter blade disposed in perpendicular and juxtaposed relation to said tube,

a pivotal mounting for said blade, means for rotating said blade, a gyratory support for said pivotal mounting, means for rotating said support, means for maintaining said blade in constant perpendicular relation to said tube, said means embodying a driving mechanism for rotating said gyratory member, and means operatively connecting said driving means and said pivotal mounting for said blade for rotating said mounting in a direction contrary to the rotation of said gyratory support, said means comprising a train of gears operatively connected and arranged to rotate said pivotal mounting as above specified.

1,923,262
FASTENING DEVICE
Botho Goebel, Leipzig, Germany, assignor to Karl Stöckel, Leipzig, Germany
Application June 24, 1931, Serial No. 546,469, and in Germany July 1, 1930
6 Claims. (Cl. 24—205)



1. In a fastening device of the class described a slidable member longitudinally divided in its center, pins and bores adapted to receive the pins arranged on the dividing surfaces of the two parts of the said slidable member to secure the two parts of the slidable member against longitudinal displacement with respect to each other, and a clamp overlapping the two halves from one side to lock them relative to one another against lateral displacement.

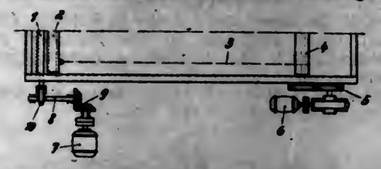
1,923,263
LINE GUIDE
Charles Heddon, Dowagiac, Mich., assignor to James Heddon's Sons, Dowagiac, Mich., a Corporation of Michigan
Application April 13, 1931. Serial No. 529,606
11 Claims. (Cl. 43—24)



11. A hollow line guide for a fishing rod comprising a mounting in the form of a fixed annulus disposed transversely of the rod and a second annulus carried circumferentially by the first and rotatable relative thereto about its own axis.

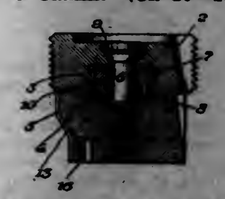
1,923,264
MEANS FOR SEPARATING ADHERING ROLLED METAL SHEETS
Eugen Hinderer, Hambern, Germany, assignor to Vereinigte Stahlwerke Aktiengesellschaft, Duesseldorf, Germany, a Corporation of Germany
Application September 6, 1927, Serial No. 217,847, and in Germany January 3, 1927
1 Claim. (Cl. 29—17)

Apparatus for separating adhering rolled sheets including the combination, with means for positively moving a pair of adhering sheets in a feeding direction, of a pair of superposed cutting devices provided with sawlike cutting edges, which cutting devices are disposed transversely between said sheets and individually reciprocable while in mutual contact and along their own longitudinal axes in the cleavage zone



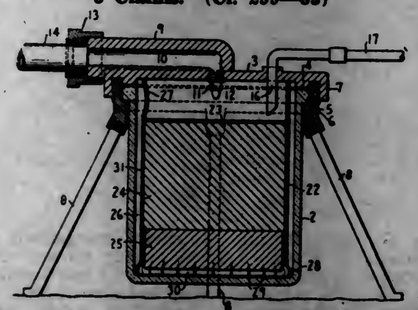
transversely to the direction of movement of said sheets, and means for individually reciprocating said cutting devices in said cleavage zone in opposite directions in order to add a direct splitting action to the cutting action of said cutting devices while generally maintaining the normal flat shape of said sheets as uniformly as possible during separation thereof.

1,923,265
CIRCULAR CHASER DIE HEAD
William J. Hogg, Cleveland, Ohio, assignor to The National Acme Company, Cleveland, Ohio, a Corporation of Ohio
Application August 5, 1931. Serial No. 555,210
9 Claims. (Cl. 10—103)



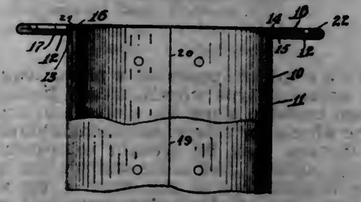
4. A chaser block having a forwardly extending chaser positioning pilot provided with interiorly formed serrations, a circular chaser having a serrated opening and a surface fitting the pilot, the serrations of the pilot and chaser being differently formed, and a serrated bushing having a plurality of sets of differently formed serrations co-operating with the serrations of the chaser and the pilot.

1,923,266
PLANT SPRAYING APPARATUS
Henri J. Houpert, Rye, N. Y.
Application April 4, 1931. Serial No. 527,683
3 Claims. (Cl. 299—83)



2. An apparatus for spraying plants comprising a receptacle adapted to hold pressure and having means for opening and for tightly closing it, a removable inner shell for holding a charge of soluble plant-spray composition, there being liquid spaces between said shell and the walls of the receptacle, a float in the lower part of the apparatus and beneath the charge for feeding the composition upward in the shell, a perforated wall against which the charge is kept by the action of said float, means for admitting water under pressure through a hose to the receptacle, and means for conducting off the resulting solution to a spray nozzle.

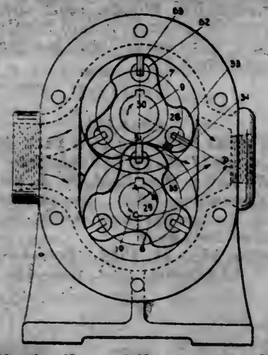
1,923,267
SPOOL
Hilyard C. Howsam, Chicago, Ill., assignor to Hubbard Spool Company, Chicago, Ill., a Corporation of Illinois
Application September 15, 1930
Serial No. 481,910
1 Claim. (Cl. 242—123)



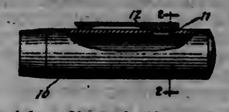
A spool of the class described consisting of an outer cylindrical sheet metal shell, an inner cylindrical sheet metal shell, and annular sheet metal heads, said shells being in intimate engagement and being spot welded together, said heads being notched along their inner edges to provide teeth of no greater depth than the thickness of the metal of said outer shell, said outer shell at its ends being notched to provide teeth of no greater depth than the thickness of the metal of said heads, the teeth and notches on said shell intimately fitting and receiving the notches and teeth of said heads whereby said heads are intimately joined to said shell in planes at right angles with the cylindrical outer surface of said outer shell and to provide sharp right angled corners between said heads and the outer surface of said outer shell and to eliminate curved or rounded corners, the end section of said inner shell being deflected around the interlocking joints between said heads and outer shell and the end sections of the inner shell beyond the deflected zones being slotted to provide flanges which are intimately secured against the outer faces of said heads by spot welding and extend substantially to the peripheries of said heads to reinforce said heads, the outer peripheral sections of said heads being curled over to engage against the outer faces of the heads to surround the notched ends of said inner shell.

1,923,268
PUMP
Ames V. Jensen, Ferndale, Mich.
Application January 9, 1931. Serial No. 507,549
2 Claims. (Cl. 103—126)

1. In a pump comprising a housing having an inlet and an outlet, a pair of impeller rotors rotatably mounted therein and having a plurality of teeth, each tooth of said rotors having a face a portion of which is an arc of a true circle having its center coincident with the center of rotation of the other rotor and another portion being an arc of a true circle of a different radius having its center on the center line of the tooth and tangent with the aforesaid arc and with the outer circumference of the said rotor on the center line of the tooth, and the opposite face of the said tooth being generated by a similar aforesaid face when the rotors are rotated together about their axis.



1,923,269
FASTENING CLIP FOR FOUNTAIN PENS, PENCILS, AND THE LIKE AND ATTACHING MEANS THEREFOR
Gabriel Larsen, Springfield, N. J., assignor to L. E. Waterman Company, New York, N. Y., a Corporation of New York
Application May 8, 1930. Serial No. 450,681
5 Claims. (Cl. 24—11)



5. A fastening clip of the class described formed of a single piece of relatively soft non-resilient metal, said piece being relatively thick as compared to the thickness of sheet metal employed for such articles, said clip having one end portion thereof formed of a relatively thick plate and the other end of a relatively thick ball, said plate and ball being connected by a shank integral therewith and highly compressed from a thick part of said piece to render it resilient, and fastening wings integral with said plate and located inside the edges thereof, said wings being adapted to pass through the wall of a pen barrel or the like.

1,923,270
CURRENT CONDUCTING MOLDING FOR ORNAMENTAL LIGHTING
Harry W. Lawrence, Denver, Colo., assignor, by direct and mesne assignments, to Jewelite Inc., a Corporation of Colorado
Application November 22, 1930
Serial No. 497,524
3 Claims. (Cl. 173—335)



1. Means for supporting and carrying current to a series of electric lamp globes comprising: a relatively long metallic strip carrying a series of spaced apart openings; a threaded socket shell secured in each of said openings; spaced

apart insulating blocks supporting said strip; a conductor bar maintained in spaced relation with said strip under each of said socket shells by said insulating blocks, said conductor bar being carried in notches in said insulating blocks so that it will not contact with a supporting surface for said blocks.

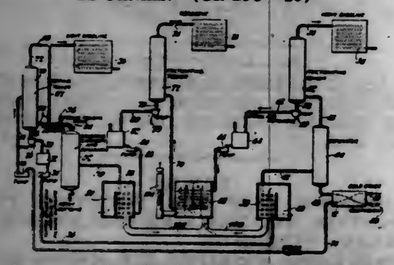
1,923,271

PROCESS AND APPARATUS FOR FRACTIONATING PETROLEUM

William W. Lowe, Westfield, N. J., and Henry N. Lyons, Okmulgee, Okla., assignors to Doherty Research Company, New York, N. Y., a Corporation of Delaware

Application May 21, 1924. Serial No. 714,795

11 Claims. (Cl. 196—49)



6. An apparatus for treating oils, comprising a closed series of units, each unit of the series comprising an oil heater, a vapor fractionating tower and a final condenser, means for passing oil from the fractionating tower of each unit into the oil heater of the next succeeding unit, and means for introducing oil to be treated into the fractionating tower of one of said units.

1,923,272

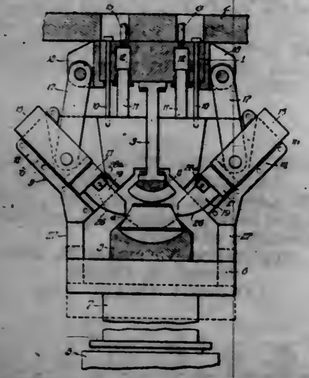
METHOD AND MEANS FOR FORMING PIPE ELBOWS

Jorge Mareto, Chicago, Ill., assignor to Taylor Forge and Pipe Works, Chicago, Ill., a Corporation of Illinois

Application November 19, 1930

Serial No. 496,615

21 Claims. (Cl. 153—33)



1. In combination, two opposed and cooperating exterior dies having relative rectilineal movement, two opposed and cooperating horn dies operating between the exterior dies and having rectilineal movement toward and away from each other and substantially transversely of the relative movement between said exterior dies, and means controlled by relative movement of the exterior dies toward and away from each other for moving the horn dies toward and away from each other.

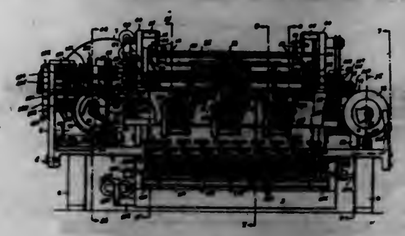
1,923,273

PRINTING TELEGRAPH

Andrew T. MacCoy, Boston, Mass.

Application October 27, 1932. Serial No. 639,793

22 Claims. (Cl. 178—28)



1. In a printing apparatus, a platen, two relatively adjacent type wheels, means including a carriage movable along the platen and supporting the wheels for rotary movement whereby the type thereon may be brought selectively into printing position, means for shifting the wheels axially to bring one or the other of the wheels selectively into printing alignment, and means including two fixed stops on the carriage and cooperating teeth fixed relative to the two wheels respectively for rotatably locating the wheels in printing position when moved axially and holding them in that position during the printing operation.

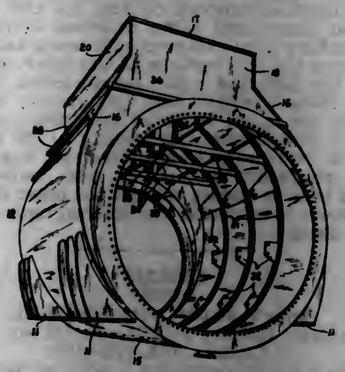
1,923,274

CONDENSER APPARATUS

Ernest F. Miller, Prospect Park, and Enos H. Lane, Lansdowne, and Charles B. Tuley, Glenolden, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a Corporation of Pennsylvania

Application November 4, 1932. Serial No. 641,290

13 Claims. (Cl. 257—43)



1. In a condenser, a steel plate shell, circumferential reenforcing steel shapes welded to one side of the shell, and longitudinally-extending reenforcing steel shapes welded to the other side of the shell and extending transversely of the circumferentially-extending shapes.

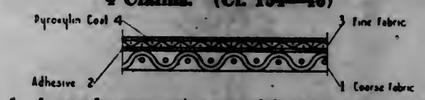
1,923,275

CANDY SUPPORT

Edgar H. Nollau, Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware

Application June 10, 1931. Serial No. 543,290

4 Claims. (Cl. 154—46)



1. A candy support comprising a web of relatively heavy textile fabric, a sheet of textile fabric having a count of substantially 82 by 82 attached to said web, and a smooth candy contacting coating, superposed on said sheet.

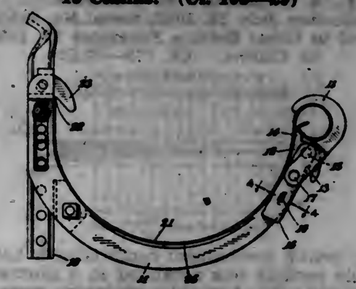
1,923,276

EAVES TROUGH HANGER

Benjamin Nord, Bayside, N. Y., assignor to Whitney Metal Products Corp., New York, N. Y., a Corporation of New York

Application January 4, 1932. Serial No. 584,639

13 Claims. (Cl. 108—29)



1. The combination with an eaves trough hanger, of gutter-bead fastening means provided at the outer end of the hanger and permanently associated therewith, and comprising lever operated bead engaging means, the latter comprising a lever pivotally associated with said outer hanger end, a substantially hook-shaped member pivotally connected with said lever and adapted to engage the bead of a trough.

1,923,277

STROBOSCOPIC DEVICE

Ferencz Palluch, Budapest, Hungary, assignor of one-half to Frank Schwartz, New York, N. Y.

Application February 6, 1931, Serial No. 513,902, and in Hungary February 10, 1930

5 Claims. (Cl. 88—14)



1. In a stroboscopic device, a frame, an oscillatable reed having one end fixed to said frame and the other end free, a sleeve carried by the frame and slidably engaging said reed and frame to prevent oscillation of the engaged portion of the reed, and means for adjusting said sleeve along the reed and frame to vary the effective free length of the reed; said last-named means comprising a rack-and-pinion arrangement between said sleeve and frame.

1,923,278

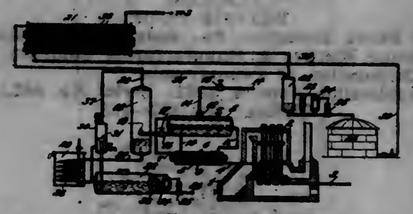
PROCESS AND APPARATUS FOR TREATING HYDROCARBONS

John Peri, Tulsa, Okla., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware

Application February 4, 1922, Serial No. 534,069

Renewed March 5, 1929

19 Claims. (Cl. 196—58)



15. The process of cracking hydrocarbon oils, which comprises passing oil in a closed cycle from an enlarged body of oil in a cracking zone through a heating zone in which the oil is heated to a cracking temperature and then back into said cracking zone, thereby to maintain said body of oil at a cracking temperature, maintaining the oil of said body under a substantial superatmospheric pressure, withdrawing residuum from said body into a vaporizing zone maintained under a lower pressure than the pressure maintained on the oil of said body and in which vaporization of substantial portions of said residuum is effected by the heat contained therein, condensing the vapors evolved from said residuum, passing the condensate produced from said vapors through a second heating zone in which it is heated to a cracking temperature, and passing the resulting products while in a highly heated state in heat exchange but out of direct contact with the oil being passed through said closed cycle and then into a second enlarged cracking zone.

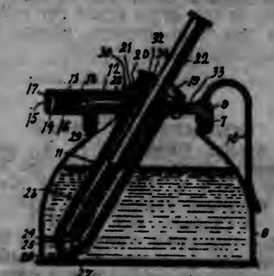
1,923,279

LAUNDRY SPRAYER

Naotaro Sameshima, Los Angeles, Calif.

Application August 1, 1931. Serial No. 554,479

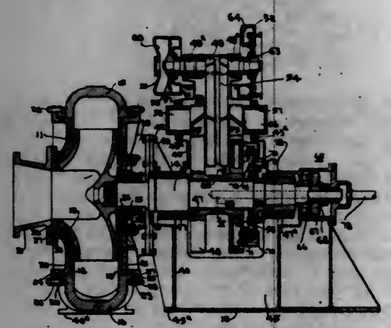
1 Claim. (Cl. 299—97)



In a laundry sprayer, the combination with a container and a detachable cover therefor, of a

pump integral with the cover and extending diagonally to the bottom of the container, a handle integral with the cover, a plunger for the pump extending adjacent to the handle, a packing for the plunger disposed within the pump, a discharge cylinder extending across the top of the cover and integral therewith, a spray nozzle disposed on the end of the discharge cylinder, a spreader adjustable within the nozzle, a deflector integral with the spreader and cooperating therewith, a ball check valve disposed between the pump and discharge cylinder, a leak chamber formed in the cover and above the packing, a cover for the leak chamber, a communicating passage from the leak chamber to the interior of the container, and a spring within the pump and arranged to actuate the plunger in return movement.

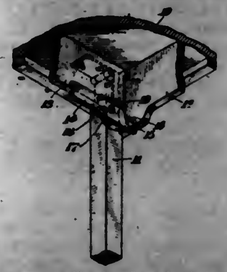
1,923,280
DREDGE PUMP
Ira Short, Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application June 4, 1931. Serial No. 542,173
4 Claims. (Cl. 137—158)



2. The combination with a driven machine and a prime mover, said driven machine including a drive shaft, of gearing for transmitting power from the prime mover to the drive shaft and including a driven gear coaxially-arranged with respect to the drive shaft, means for interrupting the supply of energy medium to the prime mover, biasing means for rendering the interrupting means effective, fluid-pressure means opposing the biasing means to render the interrupting means ineffective, a coupling for connecting the driven gear and the drive shaft and providing for relative angular movement of the driven gear with respect to the drive shaft when a predetermined load is exceeded, and means responsive to said relative angular movement of the driven gear with respect to the drive shaft for relieving the pressure of the fluid-pressure means to render said interrupting means effective.

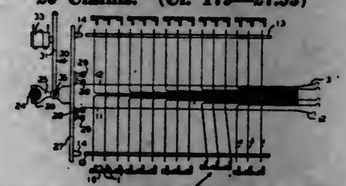
1,923,281
COLLAPSIBLE TABLE
Benjamin Smith, Brooklyn, N. Y., assignor to Sophie Smith, Brooklyn, N. Y.
Application April 6, 1931, Serial No. 528,009
Renewed January 17, 1933
3 Claims. (Cl. 45—11)

1. A collapsible table comprising a top, a pair of legs hinged to each end of the table, a cross rail connecting each pair of legs, a pair of brackets hinged to said table top and having their ends arranged to engage said cross rails when in open position and detents pivoted to said brackets to



engage the cross rails to hold the same against the ends of the brackets.

1,923,282
AUTOMATIC TELEPHONE SWITCH
Charles P. Smith and Geoffrey Newton, Aldwych, London, England, assignors to International Standard Electric Corporation, New York, N. Y., a Corporation of Delaware
Application July 28, 1932, Serial No. 625,324, and in Great Britain November 27, 1931
20 Claims. (Cl. 179—27.53)



1. A switch mechanism comprising a bank of movable contact sets arranged in a plurality of rows, a plurality of movable switching units each adapted to cooperate with the contact sets in a plurality of rows, means for moving the contact sets of a selected row into the path of said switching units and means for moving a selected switching unit to connect with a contact set in said selected row.

1,923,283
SLIP
John C. Stokes, Houston, Tex.
Application September 26, 1932
Serial No. 634,828
17 Claims. (Cl. 24—263)

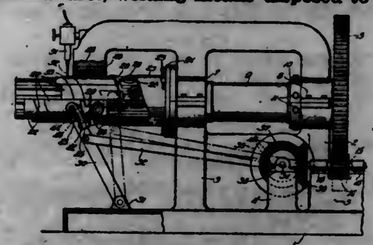


1. A slip for supporting pipe including a plurality of jaws arranged in spaced apart relation, flexible means connecting said jaws for limited relative movement, and resilient material disposed between the adjacent sides of said jaws to space said jaws.

1,923,284
SPIRAL PIPE WELDING MACHINE
James Hall Taylor and Edward Hall Taylor, Chicago, Ill.
Application January 12, 1931, Serial No. 508,115
Renewed January 19, 1933
27 Claims. (Cl. 219—6)

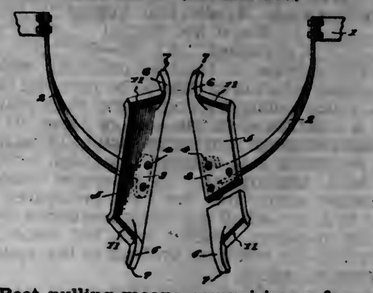
1. In a machine of the character stated, a rotating mandrel including blocks mounted for

reciprocation lengthwise of the mandrel, means for progressively moving the blocks toward the outer end of the mandrel during each revolution thereof and for successively returning the blocks to initial position at the end of each revolution of the mandrel, welding means disposed to weld



together the edges of adjacent convolutions of metal strip wound spirally upon the mandrel, and means carried by the blocks and contacting the rearward edge of the strip for advancing said strip toward the outer end of the mandrel at a rate commensurate with the rate of winding of the strip upon the mandrel.

1,923,285
BEET PULLER SHARE
Frank N. Tonkinson, Longmont, Colo.
Application January 9, 1932. Serial No. 585,769
3 Claims. (Cl. 55—106)

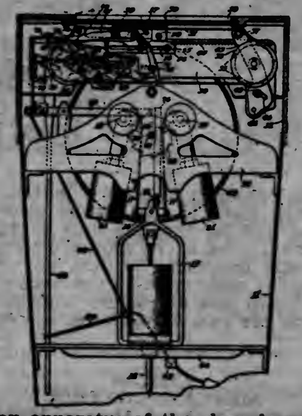


1. Beet pulling means comprising a frame including supporting elements spaced transversely from each other, and shares carried by said supporting elements, said shares extending upwardly at a rearward incline in converging relation towards their upper ends and each at its lower end being provided with a straight transverse cutting edge extending at a rearward incline toward its outer end and an earth-penetrating finger projecting forwardly from the cutting edge at the inner end thereof and terminating in a sharpened free end, the fingers and forward end portions of said shares being bowed downwardly and rearwardly for the full width of the share.

1,923,286
METHOD OF PURIFYING IRON FROM SULPHUR
Rutger Henrik von Seth, Avesta, and Bo Michael Sture Kalling, Djursholm, Sweden, assignors to A. Johnson & Co., Stockholm, Sweden, a firm of Sweden
No Drawing. Application March 3, 1932, Serial No. 596,574, and in Sweden January 27, 1932
2 Claims. (Cl. 75—14)

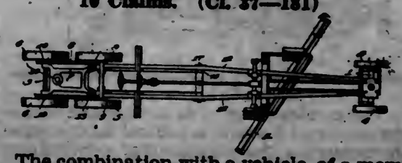
2. The improvement in the method of ridding finely divided iron of sulphur compounds contained therein, comprising treating the material with water in order to elutriate the sulphurous materials contained therein, and subjecting the iron, subsequent to the initial treatment with water, to a fine-crushing operation in water.

1,923,287
COIN CONTROLLED AMUSEMENT APPARATUS
Thomas W. B. Watling, Chicago, Ill.
Application February 15, 1932. Serial No. 593,038
6 Claims. (Cl. 40—28)



1. In an apparatus of the class described, the combination with a casing, of an endless band in the casing bearing a series of questions and answers, rotatable drums whereon the band is mounted, a shutter movable to expose an answer, and a cam connected to one of said drums for restoring the shutter.

1,923,288
MEANS FOR APPLYING PUSH OR PULL OF MOTOR VEHICLE TO INCREASE TRACTION
Arthur B. Webb, Milwaukee, Wis., assignor to The Rightway Corporation, a Corporation of Indiana
Application September 26, 1930
Serial No. 484,579
10 Claims. (Cl. 37—181)

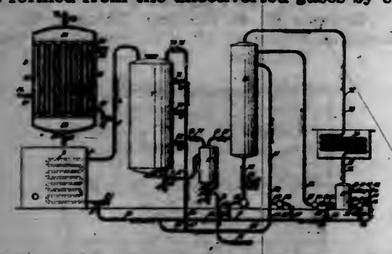


1. The combination with a vehicle, of a member hinged thereto at its front end for swinging movements about a transverse axis, a traction device connected to and supporting the rear end of said member at some distance from said axis, and means for transmitting a pushing force exerted by the vehicle to said member at such a point thereon that a downward thrust is imposed on said traction device.

1,923,289
CONVERSION OF HYDROCARBONS
Harold C. Weber, Milton, and William H. McAdams, Brookline, Mass., assignors to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota
Application June 26, 1930. Serial No. 463,891
2 Claims. (Cl. 196—10)

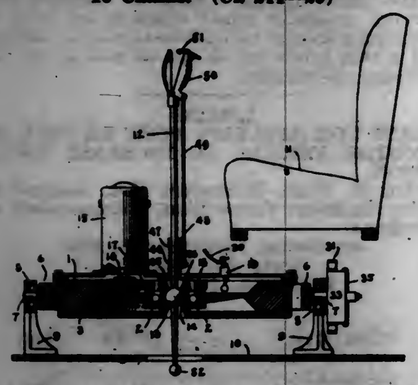
1. A process for treating incondensible hydrocarbon gases which comprises passing the gas

through a heating zone and subjecting the same therein to a temperature of between 800° F. and 1200° F. while under a pressure ranging from 100 to 750 pounds per square inch thereby forming low boiling condensible hydrocarbons therefrom, separating the condensible hydrocarbons thus formed from the unconverted gases by con-



densation, returning at least a portion of said unconverted gases to the heating zone for retreatment, and limiting the time to which the gases are subjected to the aforesaid temperature and pressure conditions so that only from 7% to 10% of the gases entering the heating zone is converted into said low boiling condensible hydrocarbons per pass through the system.

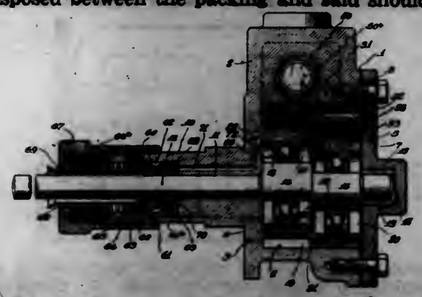
1,923,290
AIRPLANE CONTROL
Garfield A. Wood, Algonac, Mich.
Application September 3, 1929. Serial No. 390,154
16 Claims. (Cl. 244—29)



1. The combination with an airplane of a gyroscope mounted therein, a control lever connected with means on the airplane for controlling the lateral and longitudinal movements thereof, said control lever extending through the axis of the gyroscope and means for connecting the control lever to the gyroscope whereby the control lever is automatically actuated by the gyroscope.

1,923,291
ROTARY PUMP
Mark E. Zimmerer, Kokomo, Ind., assignor to Kingston Products Corporation, Kokomo, Ind., a Corporation of Indiana
Application September 11, 1930
Serial No. 481,098
1 Claim. (Cl. 103—132)

In a rotary pump including a shaft and having a pressure side and a suction side, a casing for the pump including an axially extending portion having a relatively large packing bore and a relatively small bore providing a bearing for the pump shaft disposed therein, said casing having a passageway leading from the end of the packing bore to the suction side of the pump, said casing having an internal shoulder at one end of the packing bore, a packing in the packing bore, a metal ring disposed between the packing and said shoulder

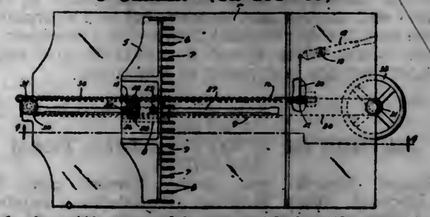


and having an annular recess disposed toward said shoulder and providing a socket affording communication between the surface of the pump shaft and the passageway whereby fluid discharge through the bearing along the shaft will be withdrawn through the passageway by a vacuum to the suction side of the pump.

1,923,292
PURIFICATION OF CELLULOSE MATERIAL
Harry P. Bassett, Cynthiana, Ky.
No Drawing. Application August 31, 1931
Serial No. 560,521
6 Claims. (Cl. 92—9)

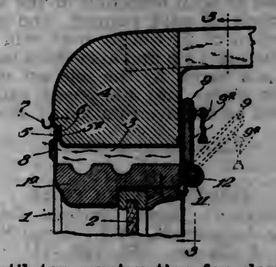
1. The process of treating cellulosic material containing coloring matter to be removed therefrom which comprises contacting such material with a solution of nitric acid of from .05 to 5 per cent. strength, rendering such solution active with respect to said cellulosic material, removing the acid, washing the thus treated material, thereafter subjecting the thus pretreated material to a hot alkali purifying treatment, washing the resulting product with hot water, and subjecting the resulting product to the action of a bleaching agent.

1,923,293
GAUGE FOR CUTTING MACHINES
Benjamin F. Berry, St. Louis, Mo., assignor to Berry Machine Company, St. Louis, Mo., a Corporation of Missouri
Application September 23, 1927
Serial No. 221,448
3 Claims. (Cl. 164—59)



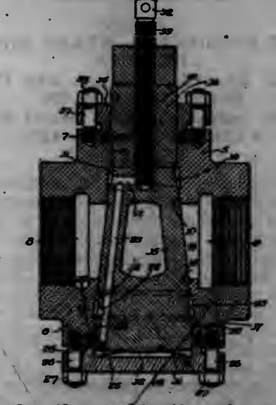
1. A cutting machine provided with a cutter, an adjustable gauge comprising an abutment member having an abutment face adapted to lie parallel with said cutter, a carrier to which said abutment member is pivoted so as to permit adjustment of said abutment member relative to said carrier, means to prevent displacement of said abutment member relative to said carrier, a guide for said carrier, said guide having a straight face at a right angle to said cutter, said carrier having an alining member adapted to engage said straight face to accurately locate said abutment face in a line parallel with said cutter, and operating means including an eccentric whereby said alining member is forced into frictional engagement with said straight face.

1,923,294
VENTILATOR FOR VEHICLE BODIES
Kenneth H. Brownlee, Evanston, Ill.
Application December 8, 1930. Serial No. 500,705
12 Claims. (Cl. 98—2)



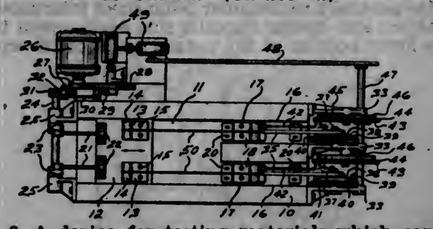
1. A ventilator construction for closed vehicle bodies, comprising a space between the top frame member of the door and the corresponding member of the body door frame and forming an air passage between the interior of the body and the external atmosphere when the door is closed, and a shutter mounted on the interior of the body for sealing contact along the upper edge of the door in closed position and normally adjustable to open or close the entrance to said passage.

1,923,295
PLUG VALVE
Paul Carpenter, Chicago, Ill.
Application December 31, 1927, Serial No. 243,991
Renewed September 9, 1932
16 Claims. (Cl. 251—93)



1. In a valve, the combination of a casing having a tapered valve seat and fluid passageways in said valve seat, a tapered rotatable plug member mounted in said casing and engaging said seat and having a passage adapted to be brought into registration with said fluid passageways, both ends of said tapered valve member being cylindrical, and cylindrical bearings in the casing for the cylindrical portions of said valve member, and lubrication channels extending within the valve member and discharging lubricant adjacent to the bearing surface between the tapered portion and the cylindrical portions.

1,923,296
METHOD OF AND MACHINE FOR TESTING MATERIALS
Martin Castricum, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts; John B. Pierce and Charles A. Dana, Receivers
Application June 8, 1929. Serial No. 369,296
10 Claims. (Cl. 265—2)



6. A device for testing materials which comprises a support including a guideway, a material clamp reciprocably mounted in the guideway and means to periodically reciprocate said clamp through a predetermined distance, a second guideway, a second material clamp reciprocably mounted in said second guideway and substantially aligned with the first clamp, means urging the second clamp away from the first clamp and pawl and ratchet means to normally prevent movement of the second clamp towards the first clamp.

1,923,297
MEANS FOR INDICATING THE FORCE WITH WHICH A BASEBALL STRIKES A TARGET
John Cooper, De Ridder, La.
Application November 28, 1931
Serial No. 577,816
1 Claim. (Cl. 265—20)

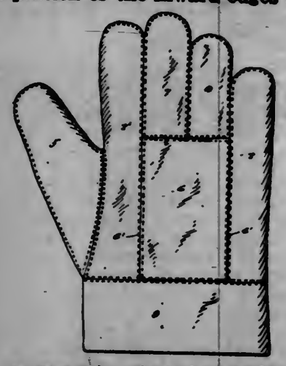


In a device of the class described, a target comprising an inverted U-shaped frame, a padded member extending across the upper part of the frame, a rock shaft to which an intermediate portion of the frame is connected, weights adjustably connected to the lower part of each limb of the frame, a U-shaped member located in the frame and connected therewith with its lower end located below the shaft, a register, means for operating the same, a rod connecting said means with the lower end of the U-shaped member, a rack on the rod and a gravity pawl engaging the rack for holding the parts in the position to which they have been moved by a blow struck the target.

1,923,298
GLOVE
George T. Corombos, Iron Mountain, Mich.
Application March 25, 1932. Serial No. 601,212
3 Claims. (Cl. 2—159)

1. A glove to be worn on either hand, said glove comprising a flat envelope open at one end and closed at the other, one side of the envelope comprising a sheet provided with cuts from its upper edge defining an index finger stall section, a middle finger stall section, and a "little" finger

stall section; the remaining side of the envelope comprising an extension of one side edge of the first side and folded so as to impose a portion thereof on and sewed to the "little" finger section to form the little finger stall, a second and generally similar extension of the opposite side edge of the first side and folded so as to impose a portion thereof upon and sewed to the index finger section to form the index finger stall; a relatively large generally rectangular palm sheet interposed between and having opposite side edges sewed to the lower portion of the inward edges of the ex-



tensions; a separate piece imposed upon and sewed at the one end and at the sides edges to the third finger stall section, a second separate piece imposed upon and sewed at one end and at the side edges to the middle finger stall section; the upper edge of the palm sheet being sewed to the lower edges of the separate sections; and a thumb stall having its opening sewed to the edges of a vertical opening on the folding line of the first extension, so as to extend equally on either side of the envelope.

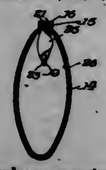
1,923,299

DISCARDABLE DUST BAG FOR CLEANERS

Samuel M. Darling, Oak Park, Ill.

Application May 1, 1931. Serial No. 534,240

1 Claim. (Cl. 183—51)



A dust collecting bag consisting of an elongated body of paper reinforced along one long edge to provide supporting strength, and a fabric tube providing a flexible connection for the bag to a cleaner nozzle, said tube projecting a substantial distance into the bag and connected to a long side thereof, and a flap for closing the inner end of the tube when the dust collector is idle.

1,923,300

MECHANICAL PENCIL

Frank C. Dell, William D. Greececlose, and William F. Foth, Chicago, Ill., assignors to Autopoint Company, Chicago, Ill., a Corporation of Illinois

Application February 2, 1931. Serial No. 512,807

5 Claims. (Cl. 120—18)

3. A pencil, comprising a barrel having a central recess, a tip, lead advancing means including a tubular sleeve, said sleeve having a helical slot therein, a tubular, slotted plunger guide rotatable within said helically slotted sleeve, a plunger adapted to slide within said guide, said plunger having a projection on the upper end thereof adapted to project through the slot in the guide and to travel in the helical slot from end to end thereof, spring means on said plunger for insuring the reengagement of said projection



with the slot at both terminals of the longitudinal movement of said plunger, and a friction sleeve adapted to fit tightly over said helically slotted sleeve, said tip and associated parts being joined to said barrel by the sole act of forcing said friction sleeve into said recess, said plunger being moved by relative rotation of said tip and barrel.

1,923,301

AWNING STRUCTURE

William G. Dunn, Clarinda, Iowa

Application January 26, 1931. Serial No. 511,354

5 Claims. (Cl. 296—44)



5. In a device of the class described, an awning element and a bracket for said awning element comprising a bracket member having one end adapted to coact with one edge of said awning element and a cam member pivoted to the bracket member at its other end and adapted to coact with the other edge of the awning element.

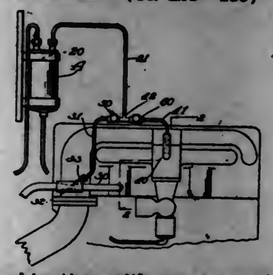
1,923,302

VACUUM PRODUCING MEANS FOR FUEL DEVICES

William A. Edwards, Chicago, and Charles S. Burton, Oak Park, Ill.

Application August 25, 1930. Serial No. 477,548

6 Claims. (Cl. 123—139)



1. In combination with an apparatus having a chamber in which a vacuous condition is to be produced and an internal combustion engine with which said apparatus is associated, means for producing the vacuous condition consisting of an engine exhaust pipe and a suction pipe leading from said chamber and connected for discharge in said exhaust pipe with relation to the flow passage of said exhaust pipe suitable for inducing suction through said suction pipe, the exhaust pipe being connected for exhaust pressure with a single selected cylinder of the engine.

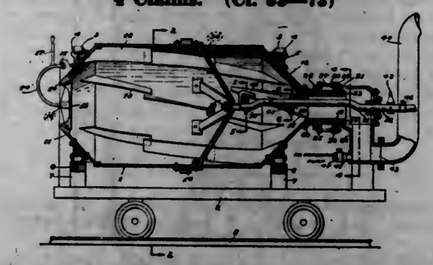
1,923,303

COMBINATION CONCRETE MIXER AND PLACER

George Fortier, Pittsburg, Calif.

Application April 21, 1931. Serial No. 531,830

4 Claims. (Cl. 83—73)



1. In combination, a revolvable concrete mixer, a discharge chute for the same, a pipe extending axially into the mixer, a trough supported on the pipe and having communication with the chute, means for feeding the contents to the trough and means utilizing the pipe for blowing air along the trough for urging the contents into the chute.

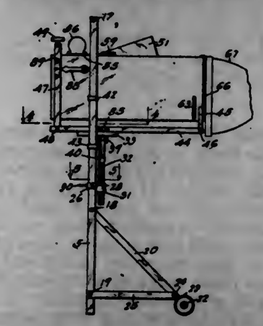
1,923,304

HEADLIGHT TESTING DEVICE

John T. Friedli, Seattle, Wash., and John D. Guiss, San Francisco, Calif.

Application January 29, 1932. Serial No. 589,618

12 Claims. (Cl. 88—14)



1. A headlight testing device in combination, a dark chamber and adjustable supporting means therefore, a diaphragm removably mounted at the front end of said chamber and provided with a central pin hole and a plurality of spaced horizontal slots, a screen formed parallel to the diaphragm at the rear interiorly of said dark chamber and provided with cross lines, observing means for the screen, plural adjusting means for adjusting said dark chamber in true alignment with a vehicle, and tilt indicating means whereby the tilt of a vehicle headlight may be adjusted.

1,923,305

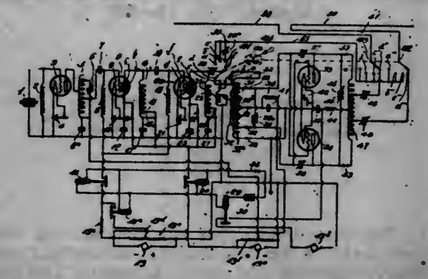
SIGNALING SYSTEM

Louis A. Gebhard, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware

Application May 29, 1930. Serial No. 457,445

14 Claims. (Cl. 250—17)

1. A signal transmission system comprising in combination a source of substantially constant frequency oscillations, an amplifying system for increasing the amplitude of said oscillations, a pair of electron discharge devices connected into a balanced circuit arrangement, and means coupling the output circuit of said first mentioned amplifying system with the input circuits of said pair of electron discharge devices comprising a variable impedance device, an ouput circuit connected with said pair of electron dis-



charge devices, a radiating system connectible with said output circuit, and switching means for selectively connecting said first mentioned amplifying system directly with said radiating system or through the circuits of said pair of electron discharge devices and simultaneously changing the transmission characteristics of said radiating system.

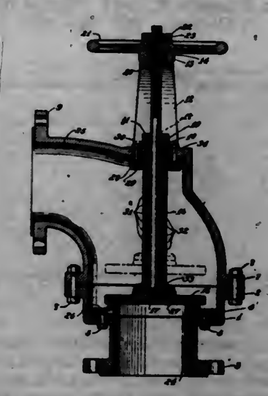
1,923,306

VALVE FOR CORROSIVE FLUIDS

Karl R. Hagen, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York

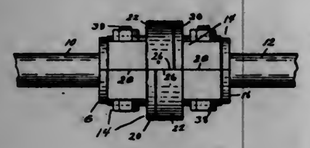
Application February 8, 1932. Serial No. 591,502

3 Claims. (Cl. 251—31)



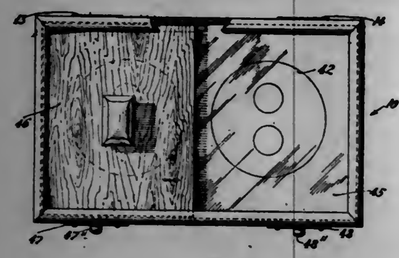
2. The combination in a valve of a corrosion-resistant valve body provided with a valve seat, a valve disc adapted to close the seat, a valve stem connected to said disc and extending through the wall of the valve body, means located outside the valve body and cooperating with said stem for moving the disc in relation to its seat, and a corrosion resistant tubular column for protecting the valve stem, said column comprising permanently compressed resilient rubber washers in contact with the conducted fluid and surrounding the stem and, intercalated therewith, rigid means slidably engaging the stem for holding the resilient washers in spaced relation thereto.

1,923,307
FLEXIBLE COUPLING
Chester F. Hathaway, New Bedford, Mass., assignor to Hathaway Machinery Company, a copartnership composed of Chester F. Hathaway, New Bedford, Mass., and Eli G. Braley, Fairhaven, Mass.
Application March 13, 1931. Serial No. 522,435
8 Claims. (Cl. 64—89)



1. The combination of aligned driving and driven shafts, a flexible coupling connecting said shafts comprising two coupling members having intermeshed engaged driving jaws, each coupling member comprising two complemental sections each having a jaw, an inter-jaw recess, and a shaft-recess, means clamping said complemental sections together and to the shaft with the jaws in spaced relation and with the coupling members held against axial displacement and rotation on the shafts, and loose means located within and having floating connections with the jaws of both coupling members which hold them against relative axial and lateral displacement while permitting angular displacement.

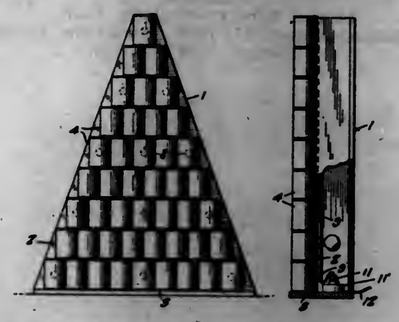
1,923,308
SIDEREAL-CIVIL CLOCK COMBINATION AND CARRYING CASE THEREFOR
John P. V. Heinmuller, New York, N. Y.
Application January 7, 1931. Serial No. 507,079
4 Claims. (Cl. 58—105)



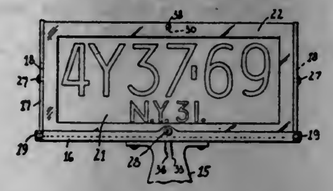
1. A container for chronometers, comprising a main container portion, a plurality of chronometer trays side by side within said main container portion, a cover for said main container portion, and an opaque slide carried in said cover for covering one or the other of the chronometers, while exposing the remaining one of the chronometers.

1,923,309
ILLUMINATED DISPLAY
Ralph N. Henderson, Terre Haute, Ind.
Application November 30, 1932
Serial No. 645,056
3 Claims. (Cl. 40—132)

1. An illuminated display comprising a stand, a plurality of label bearing elements arranged in rows and carried by one wall of the stand, the opposite wall of said stand being of translucent material and bearing an advertisement, illuminating means carried by said stand for illuminating the interior thereof and some of said elements.

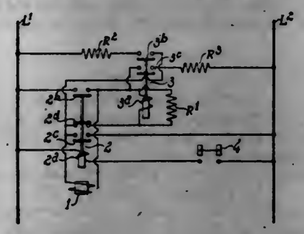


1,923,310
DEVICE FOR PREVENTING THEFT OF AUTOMOBILES
Henry Hippold, New York, N. Y.
Application September 22, 1932
Serial No. 634,273
3 Claims. (Cl. 40—2.2)



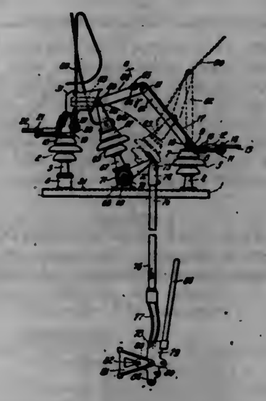
2. A license plate holder comprising a frame having studs fixed in its ends and openings in its opposed side members, a pair of spaced bars, uprights rigidly carried at the ends of said bars in close proximity to the ends of said frame, said uprights having elongated slots in which said studs operate, said frame being reversible on the studs and its side members selectively receivable between said bars, and a lock on one of said bars having a bolt engageable in either of the openings in the side members of said frame.

1,923,311
CIRCUIT CONTROLLER FOR LIFTING MAGNETS
Howard E. Hodgson, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware
Application October 30, 1930. Serial No. 492,240
1 Claim. (Cl. 175—335)



The combination with an inductive winding and a supply circuit therefor, of a pair of separately operable electroresponsive switches for selectively establishing reverse power connections for said winding, each of said switches including a pair of normally open contacts for connecting the terminals of said winding to opposite sides of said supply circuit, and one of said switches having normally closed contacts for establishing a discharge circuit for said winding including the operating winding of the other of said switches, and a two-position master switch for establishing and interrupting the energizing circuit of said first mentioned switch.

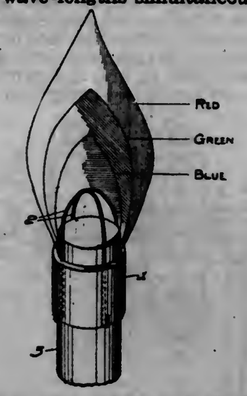
1,923,312
SWITCH
Ernest H. Jacobs, River Forest, Ill., assignor to Electrical Engineers Equipment Co., Melrose Park, Ill., a Corporation of Illinois
Application March 31, 1928. Serial No. 266,167
9 Claims. (Cl. 200—48)



4. In an electric switch, the combination with a rocking insulator mounted on a fixed pivot, means for rocking the insulator, a bifurcated bracket mounted on the insulator, a switch blade pivotally connected to said bracket between the arms thereof to swing in the same plane as the insulator, and link means for swinging the blade about its pivot upon the opening movement of the insulator into a position between its pivot and the insulator, the contacting end of the blade lying between the arms of the bracket, the blade being moved into a position such that the striking distance to the blade is approximately the same as the striking distance to the bracket.

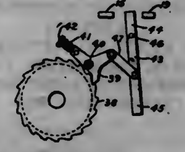
1,923,313
ILLUMINANT BURNING WITH A MULTI-COLORED FLAME
Richard Koster, Tallinn, Esthonia, assignor to Heinrich Frehn, Naumburg, Germany
Application October 20, 1930, Serial No. 489,974, and in Finland October 16, 1929
5 Claims. (Cl. 44—7)

1. An illuminant consisting of a body of volatile substantially infusible combustible organic material containing a plurality of flame-coloring constituents in small amounts, characterized by burning with a flame having areas emitting light of different wave-lengths simultaneously.



5. An illuminant consisting of a body of hexamethylenetetramine in admixture with small small amounts of at least two different flame-coloring substances.

1,923,314
TROLLEY TENDER
Ernst A. Larsson, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey
Application November 7, 1931. Serial No. 573,637
16 Claims. (Cl. 191—91)

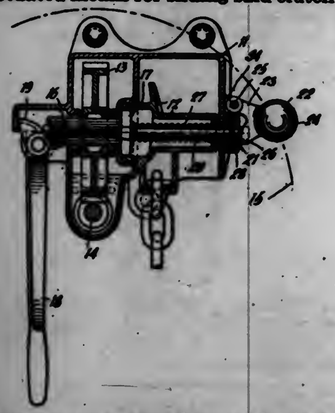


1. In a trolley retriever, the combination of a casing, a rotary spring-actuated rope drum, a retriever disc having a scroll, a spring mechanism tending to rotate said retriever disc in a rope-winding direction, means for rotating said disc in the rope-unwinding direction and against the tension of said spring mechanism to reset the same, a lever controlled by said scroll, a latch for locking said disc against rotation in the direction urged by said spring mechanism and controlled by said lever for setting said latch, means dependent upon the speed of rotation of the drum for actuating said latch to release the retriever disc, means on the drum engaged by means on the casing to prevent the rotation of the drum in a rope-winding direction while resetting the spring mechanism and means on the disc to engage means associated with the said means on the casing to automatically disengage the said means on the casing from the means on the drum when the spring mechanism is fully reset to permit rotation of the drum under action of the spring mechanism.

1,923,315
HAND BRAKE
Edward H. Lehman, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware
Application April 27, 1931. Serial No. 533,152
6 Claims. (Cl. 74—112)

1. In a hand brake mechanism, the combination with a rotary chain-winding element; of a

rotary actuating element for said winding element; a releasable clutch member having sliding engagement with one of said elements and rotatable therewith; a head on said clutch member having clutching engagement with the other element; a fixed stem on said clutch member; manually actuated means for sliding said clutch mem-



ber to disengage the same from said rotary winding element; and a lever pivotally supported at its upper end, said lever having a weighted portion below the pivot thereof, said weighted portion having a cam projection thereon engaging with the end of the clutch stem for urging said clutch member to engaging position.

1,923,316

SELF FEEDING APPLICATOR

Ragnvald G. Leland, New York, N. Y.

Application February 8, 1933. Serial No. 655,795
9 Claims. (Cl. 132—13)



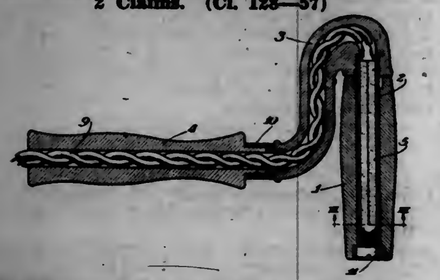
1. A self feeding applicator for hair fluid comprising a container, means for securing said container to a comb and means in said container for feeding the contained hair fluid over the secured comb.

1,923,317

MASSAGE DEVICE

Benjamin B. Lipaner, Chicago, Ill.

Application May 16, 1928. Serial No. 278,062
2 Claims. (Cl. 128—57)



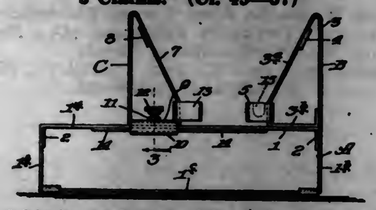
2. A massage device comprising a tubular metal spindle, a hollow handle at right angles thereto, a hollow gooseneck connecting one end of said spindle to one end of said handle, an electrical resistance within the spindle and insulated wires passing through said handle and gooseneck connected to said resistance, said spindle carrying a roller having a knurled surface on one end and a smooth surface on the other end, said roller adapted to be reversed on said spindle.

1,923,318

ADJUSTABLE RACK

Arthur J. Lloyd, Oak Park, Ill., assignor to W. G. Lloyd Company, Chicago, Ill., a Corporation of Illinois

Application July 25, 1931. Serial No. 553,228
3 Claims. (Cl. 45—57)



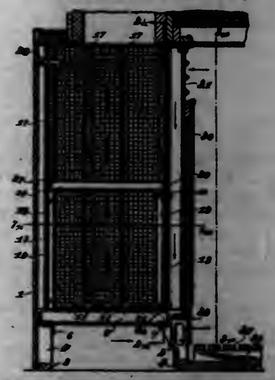
1. A binder rack comprising a frame, a support fixed thereon and adjacent one side thereof, a slidable support also carried by the frame, said supports having inclined walls on their inner sides, and book-engaging hooks secured to the adjacent sides of said slidable and fixed supports, said hooks extending laterally and outwardly from said supports and said frame.

1,923,319

ICE BUNKER FOR REFRIGERATOR CARS

Albert E. Mackey, Rochester, N. Y.

Application September 16, 1932
Serial No. 633,483
1 Claim. (Cl. 62—19)



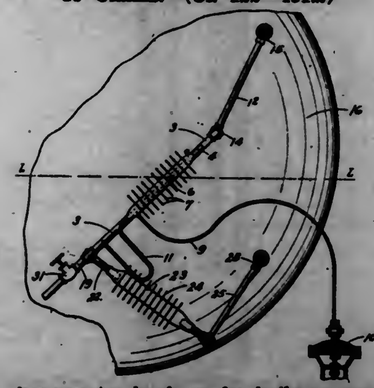
In a refrigerator car, the combination of an ice bunker having four walls enclosed with wire netting, uprights outside said netting to which the netting is fastened horizontal angle irons supported on said uprights, a section of grate bars hinged to one of said angles and having its free end resting on a horizontal angle on the other side of said bunker, said section being held thereby in a horizontal position and being adapted to be swung to a vertical position, said section of grate bars comprising an angle iron bent to a rectangular frame and cut away at the corners to form miters, grate bars supported on two of the parallel sides of said frame, said grate bars being placed perpendicular to said horizontal angle irons supported on said uprights.

1,923,320

GENERATOR HOOK-UP

Henry J. Mastenbrook, Cleveland, Ohio, assignor to The Swartwout Company, Cleveland, Ohio, a Corporation of Ohio

Application December 21, 1929
Serial No. 415,715
18 Claims. (Cl. 122—451.2)



1. A generator hook-up for boilers comprising a section of conduit swivelly connected to a boiler above the water level, a section of conduit swivelly connected to said first section and having a pressure generator mounted thereon, a section of conduit swivelly connected to said second section and inclined downwardly with respect thereto having a cooler associated therewith, a section of conduit swivelly connected at one end to said third section and at the other end to the boiler, a discharge valve between said second and third sections and shut-off valves at the ends of said conduit adjacent the boiler.

1,923,321

RESINOUS PRODUCT AND PROCESS OF MAKING SAME

Joseph V. Meigs, Jersey City N. J., assignor, by mesne assignments, to Plastix Corporation, a Corporation of Delaware

No Drawing. Application January 15, 1927
Serial No. 161,469
21 Claims. (Cl. 260—2)

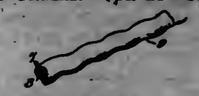
1. The process which comprises heating an already formed carbohydrate-phenol resin until it becomes resistant to ammonia and thereafter reacting the same with hexamethylenetetramine.

1,923,322

METHOD FOR FORMING COMPOSITE CORDS AND BRAIDS

William Mendel, Beverly, N. J.

Application December 20, 1930
Serial No. 503,756
7 Claims. (Cl. 12—59)



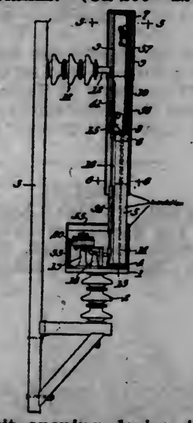
1. The method of forming a stringlike structure, entirely of artificial filaments, which consists in assembling filaments of material respectively soluble and insoluble in the same solvent, in a dry state, and thereafter subjecting the structure to the action of a solvent of the soluble filament material until it coalesces and adheres to the insoluble filament material, and compressing said structure.

1,923,323

REPEATER CIRCUIT BREAKER

John P. Medlin, Great Falls, Mont., assignor to Railway & Industrial Engineering Company, Greensburg, Pa., a Corporation of Pennsylvania

Application August 9, 1930. Serial No. 474,204
12 Claims. (Cl. 200—126)



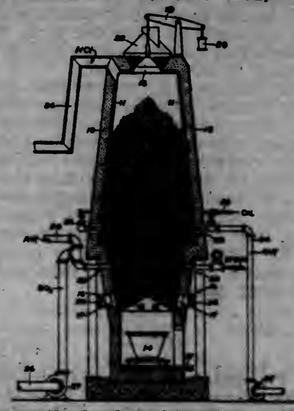
1. In a circuit opening device, the combination with a set of cooperating contacts, of means actuated by the passage of an electric current through said device, for separating said contacts, said means comprising a projectile arranged to strike against a member connected to one of said contacts, and means for reestablishing engagement between said contacts.

1,923,324

METHOD OF PRODUCING HYDROCHLORIC ACID GAS

Thomas A. Mitchell, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.

Application October 28, 1930. Serial No. 491,743
4 Claims. (Cl. 23—154)



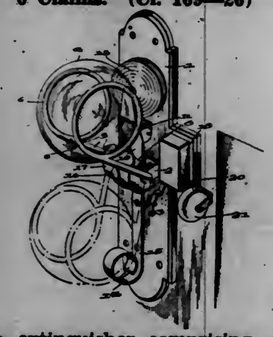
1. The method of making hydrochloric acid gas comprising the steps of causing lumps of prefused calcium chloride to react with sulfur dioxide, and, and water vapor, while maintaining temperature conditions required to cause the formation of said gas, and providing an excess of water vapor to convert the calcium sulfate to gypsum which strengthens the lumps and prevents the material from packing into a body which is difficultly permeable to the reagent gases.

1,923,325
AIRPLANE PROPELLER
José Ostria and Ray De May, Chicago, Ill.
Application October 6, 1931. Serial No. 567,228
1 Claim. (Cl. 170—159)



An airplane propeller blade including a thrust face having a portion extending transversely with respect to the long axis of the blade beyond the trailing-edge of the blade substantially along the whole length thereof to provide an air-shedding surface.

1,923,326
FIRE EXTINGUISHER
Harry Lee Parrish, Nashville, Tenn.
Application September 3, 1932. Serial No. 631,696
6 Claims. (Cl. 169—26)



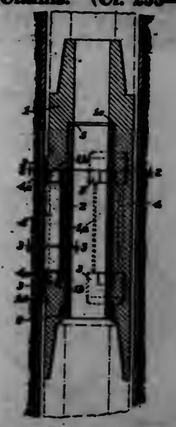
5. A fire extinguisher comprising, a pair of grenade supporting members having a normal tendency to move in one direction, one of said members being pivoted for movement toward and from the other member, tension means urging the said one member toward the other member for gripping a grenade between the members, means normally holding the members against movement in the said one direction and operating when subjected to excessive heat to release the members, and an obstruction within the path of movement of said members.

6. A fire extinguisher comprising, a grenade supporting member having a normal tendency to move in one direction, means normally holding said member against such movement and operating when subjected to excessive heat to release the member, an obstruction within the path of movement of said member, a normally inactive alarm device, and means having a part thereof projecting into the path of movement of said member for rendering the alarm device active upon movement of said member into contact with said projecting part.

1,923,327
EXPLOSIVE
Glenn A. Pritchett and Herbert G. Walker, Reno, Nev., assignors to Monite Explosives, Inc., Reno, Nev., a Corporation of Nevada
No Drawing. Application August 14, 1931
Serial No. 557,382
10 Claims. (Cl. 52—8)

9. A free flowing explosive powder comprising sodium chlorate with particles substantially all graded in size between 50 to 100 mesh, sodium nitrate graded in size of particles substantially all between 8 to 18 mesh, bound together with dinitrotoluol hard at ordinary temperatures.

1,923,328
ANTIFRICTION COUPLING FOR DRILL STEMS
Clarence E. Reed, Wichita, Kans.
Application July 7, 1930. Serial No. 466,810
10 Claims. (Cl. 255—28)



1. A coupling member for rotary drill stem sections having recesses formed therein, rollers mounted in said recesses and projecting outwardly therefrom, said rollers being held in place by sheet metal clip members having crimped edges seated and secured in grooves formed in the body of the coupling member said clips being free from projecting lugs and having a rounded surface.

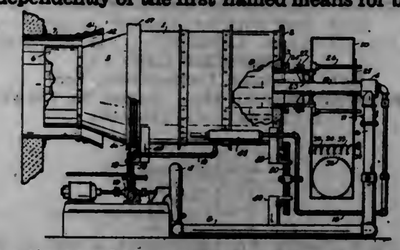
1,923,329
SAND MIXER FOR SAND BLAST MACHINES
Richard Ruemelin, Milwaukee, Wis.
Application June 24, 1929. Serial No. 373,154
4 Claims. (Cl. 51—12)



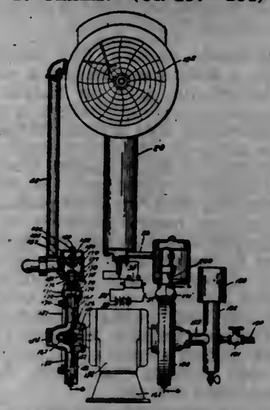
4. A sand and air mixer including, a casing, an upper chamber formed in said casing, a lower chamber formed below said upper chamber, a flexible sand shut-off extending through said upper chamber from a source of supply of sand and having its free end depending into said lower chamber, said lower chamber providing an air inlet and outlet means extending angularly in relation to said flexible member, and means for pinching the free end of said flexible member to open and close the same.

1,923,330
APPARATUS FOR BURNING FUELS
Webster I. Sallee, Cleveland, Ohio
Original application February 19, 1930, Serial No. 429,519. Divided and this application February 2, 1931. Serial No. 512,766
13 Claims. (Cl. 158—4)

1. An apparatus for burning fuels, including a refractory chamber, a fuel gun in one end of said chamber, means for discharging a stream of small fuel particles and air through said gun into said chamber, said chamber being heated interiorly by combustion of said fuel and thereby providing a source of radiant heat in said chamber for heating and rapidly vaporizing and igniting said fuel, means at the said end of said chamber operable independently of the first named means for blowing a stream of air past the gun into said chamber coaxial with the stream of fuel and air discharged by the gun, said chamber being contracted toward the discharge end for discharging the mixture of fuel and air therefrom at relatively high velocity to points of application, means to vary the shape of the stream of products discharged into said refractory chamber.



1,923,331
CALORIMETER AND FLUID REGULATING DEVICE
Harry F. Smith, Dayton, Ohio, assignor to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio
Application February 13, 1925. Serial No. 9,022
15 Claims. (Cl. 137—164)

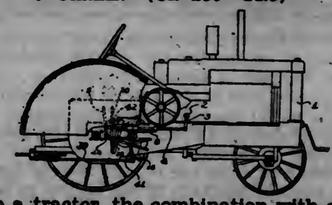


1. In apparatus of the character described, a motor; a centrifugal fan having a rotor operably connected to said motor, and a casing having a fluid inlet opening thereinto, and a plate carried by the said casing and interposed between said centrifugal fan and the motor and overlying said fluid inlet opening, to prevent the heat generated by the said motor affecting the fluid passing into said inlet opening.

3. In apparatus of the character described, a fluid regulating device comprising a centrifugal fluid supplying means having an enclosing casing provided with an interior chamber which is circular in cross section, a rotary impeller mounted therein concentric with said casing, said impeller having radial blades, and said device having a fluid discharge orifice in communication with said casing by a radial outlet from said interior chamber, said orifice being relatively small in size as compared with the capacity of said centrifugal means whereby a pressure of the fluid supplied by said centrifugal means is built up behind said orifice due in substantial entirety to the centrifugal acceleration imparted to said fluid by the centrifugal means.

5. In the supplying of fluids to maintain a predetermined relative proportioning of the several fluids while varying the total quantities of the fluids supplied, the method which comprises supplying each fluid to a respective orifice under controlled acceleration so that the flow of the fluid through its respective orifice results in substantial entirety from the head built up behind the orifice by acceleration imparted to the fluid, the flow through the orifice remaining substantially constant irrespective of specific gravity variations of the fluid due to inherent changes in the composition of the fluid, and coordinating the supply of each fluid to its respective orifice so that the several fluids are supplied under controlled proportional accelerations.

1,923,332
TRACTOR
Frederick H. Snyder, Churchville, N. Y.
Application February 10, 1931. Serial No. 514,780
7 Claims. (Cl. 180—14.5)



2. In a tractor, the combination with a clutch operating means including a push bar and a foot lever having pivotal connection with the push bar, of a clutch operating lever having a lost motion connection with the push bar for moving the bar in one direction while permitting the bar to move in the same direction independently thereof under the action of the foot lever, a spring connected with said clutch operating lever to move it in the direction to shift the rod to open the clutch, means connecting said lever with the foot lever to cause the latter to move the clutch operating lever in a direction to store energy in the spring, holding means for holding said clutch operating lever with energy stored in the spring, and draft means having connection with the holding means for releasing said clutch operating lever to the action of the spring.

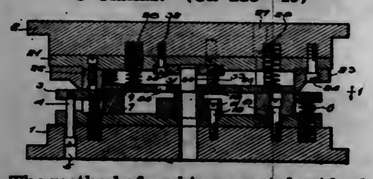
1,923,333
COMPRESSOR
Samuel N. Soter, Salt Lake City, Utah, assignor of sixty per cent to Louis N. Strike, Salt Lake City, Utah
Application October 8, 1930. Serial No. 487,142
3 Claims. (Cl. 230—52)



1. In a device of the class described the combination of a large cylinder, a small cylinder on

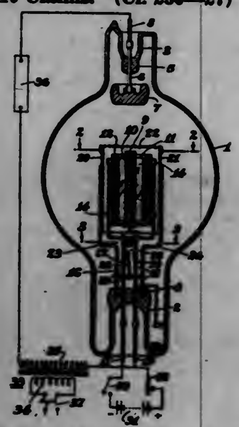
each end thereof; a piston operable longitudinally in said large cylinder; a piston rod secured through said piston having the ends thereof extended into said small cylinders to act as pistons therein; a conduit connecting the ends of the small cylinders with each other and with a storage tank; valves to control the flow of fluid from said small cylinders to said tank and to prevent back flow of fluid therefrom; a slide bar on which said valves are carried, and a spring controlled trip valve actuated by the movement of the connecting rod moving said slide bar to connect either side of the piston of the large cylinder with the intake manifold of an engine.

1,923,334
DIE
George Spatta, Buchanan, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a Corporation of Michigan
Application January 16, 1929. Serial No. 332,763
8 Claims. (Cl. 113—49)



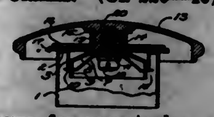
1. The method of making a metal spider having a number of symmetrically spaced spokes and a different number of symmetrically spaced indentations at the hub of the spider which comprises, passing a metal sheet through successive dies to form the spider, and during one of the operations forming an indicating mark at a point on the spider removed from the center thereof for locating the angular position of the spider in the subsequent die to bring both the spokes and the hub indentations in working relationship to the subsequent die, and removing the identifying mark in a succeeding die operation.

1,923,335
THERMIONIC VAPOR DISCHARGE DEVICE
Percy L. Spencer, West Newton, Mass., assignor to Raytheon, Inc., Cambridge, Mass., a Corporation of Massachusetts
Application September 23, 1931
Serial No. 564,580
10 Claims. (Cl. 250—27)



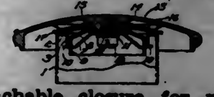
4. A thermionic vapor discharge device comprising a sealed envelope containing a vapor, a thermionic cathode and an anode within said envelope, means interposed between said cathode and anode for substantially shutting off the flow of electrons from the cathode to the anode, and means responsive to the temperature adjacent the cathode for rendering said last-named means inoperative to prevent said flow when the said temperature rises above a predetermined point.

1,923,336
CLOSURE CAP
Kyle E. Stant, Connersville, Ind.
Application May 11, 1931. Serial No. 536,419
8 Claims. (Cl. 220—40)



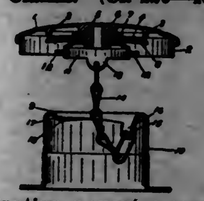
1. In a closure for receptacles, a cap, a boss depending therefrom, an inherently rigid plate mounted rotatably thereon having means adjacent its central portion adapted to cooperate with the boss to prevent lateral movement of the plate in relation to the axis of said cap and to retain said plate in a constantly spaced position relative to the cap during rotation of said plate with respect to said cap, and a resilient locking member adjacent the end of said boss.

1,923,337
CLOSURE CAP
Kyle E. Stant, Connersville, Ind.
Application May 11, 1931. Serial No. 536,420
5 Claims. (Cl. 220—40)



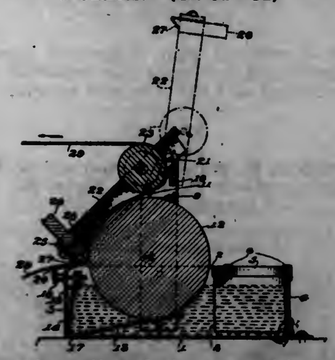
1. A detachable closure for receptacles, in combination, a filler spout having a seat and an inwardly turned lip, said lip having entrance slots, cams, and a stop lug thereon, a cap having a central depending boss, a resilient plate carried by said boss adjacent the end thereof, said plate having portions slightly spaced from the cap before said cap is rotated toward its locked position and abutting said cap after partial rotation, a resilient locking means mounted on said boss comprising an inverted cup shaped member having notches in the periphery thereof and a flat leaf spring having ends extending radially through said notches, said ends being free to move vertically and means preventing rotation of said cup shaped member on the boss, whereby the resilient locking means engages the cams on the spout with yielding effect after the said resilient plate abuts the cap.

1,923,338
RADIATOR CAP
Kyle E. Stant, Connersville, Ind.
Application March 19, 1930. Serial No. 436,943
7 Claims. (Cl. 220—40)



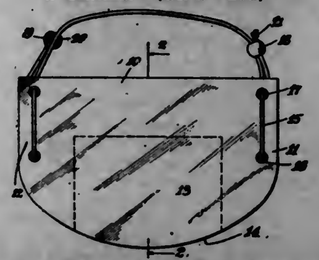
1. In combination, a spout, a cap therefor having a locking cup, a rigid locking means on the spout, and means on the rigid locking means to carry one end of a flexible connector, the other end of said connector to be carried by the locking cup on the cap.

1,923,339
WEB PASTING DEVICE
Allen B. Staiger, Atlantic City, N. J.
Application August 21, 1930. Serial No. 476,768
4 Claims. (Cl. 91—51)



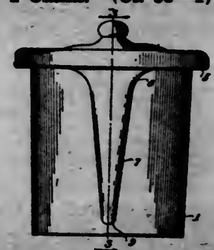
1. A web pasting device, comprising a paste container, a paste-applying roll extending into said container, a bracket carried by said container and rotatably supporting said roll, and a gravity-actuated weight oscillatably carried by said bracket and extending parallel with the axis of said roll, to frictionally engage a paper web and remove wrinkles therefrom and yield in accordance with the stiffness of such web to maintain said web in substantially uniform frictional engagement with said roll.

1,923,340
TRANSPARENT, ADJUSTABLE SHAMPOO MASK
Nat P. Steckler, New York, N. Y.
Application August 9, 1932. Serial No. 628,947
2 Claims. (Cl. 2—174)



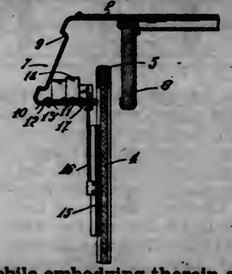
1. In a transparent adjustable shampoo mask, a transparent sheet, guards for the eyes of absorbent material attached to said sheet at its inner face covering substantially a comparatively wide space along the upper margin, eyelets in said sheet and guards, and a means passed through said eyelets and having its ends knotted and adjustable for securing the mask to a head, beads having inner stepped faces accommodating said securing means to permit its adjustment by the engagement of its knotted ends with said steps in the beads, side flanges on said guards for snugly engaging the temples to protect the eyes against the shampoo lather and a nose guard in approximately the center part of the mask.

1,923,341
COOKING UTENSIL
Otto A. Throndsen, Groton, Conn.
Application March 18, 1931. Serial No. 523,529
1 Claim. (Cl. 53—1)



A device for boiling food stuffs comprising a utensil having openings arranged in its side wall adjacent to the bottom thereof, a flanged cover for the utensil with notches arranged in diametrically opposite sides of the flange thereof, tapered ducts having their lower small ends communicating with the openings, a cross sectional U-shaped condenser ring formed on the upper enlarged ends of the ducts and surrounding the upper end of the utensil with its upper edge disposed in a plane above the upper end of the utensil for arrangement in the path of matter expelled through the notches of the flange, but spaced outwardly therefrom to allow for the passage of the cover.

1,923,342
AUTOMOBILE CONSTRUCTION
Cornelius W. Van Ranst, Auburn, Ind., assignor, by mesne assignments, to Manning & Co., Chicago, Ill., a Corporation of Illinois
Application May 31, 1929. Serial No. 367,410
1 Claim. (Cl. 296—84)

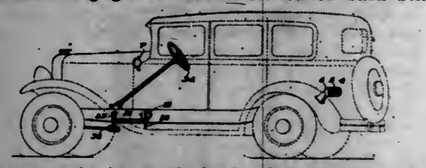


An automobile embodying therein a top, a hollow visor including a bottom wall arranged at the front end of the top, a member spaced rearwardly from the visor and depending from the top and a windshield having a portion normally arranged in the space between said visor and said member respectively, said bottom wall of the visor being adapted to support a wiper blade actuator located within said visor and concealed from view by said member.

1,923,343
CONTROLLING APPARATUS FOR AUTOMOBILE SIGNAL SYSTEMS
Charles Wade, Arlington, Mass.
Application December 3, 1931. Serial No. 578,663
2 Claims. (Cl. 200—59)

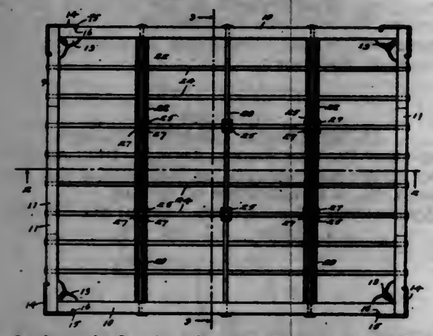
1. In a signal system for motor vehicles in which right and left electrically operated direction signals are arranged to be controlled through the steering mechanism, the combina-

tion with an electric switch having two stationary contacts connected, respectively, with said right and left signals, means for supporting said contacts closely adjacent to but insulated from each other, and a third contact mounted for movement from an intermediate neutral position into engagement with either of said sta-



tionary contacts, as desired, of connections for operating said movable contact including an arm independent of the steering mechanism but removably secured on the end of the steering gear shaft, a second arm connected with said movable contact, and a link connecting said arms.

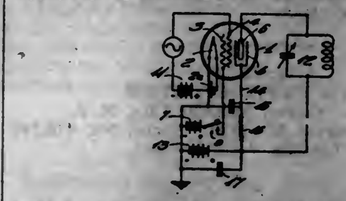
1,923,344
MILK BOTTLE CRATE
Harry W. Walker, Dallas, Tex.
Application December 23, 1930
Serial No. 504,279
2 Claims. (Cl. 217—19)



1. A crate having four walls, transversely extending sheet metal cross bars disposed between the side walls and the bottom of the crate, vertical sheet metal posts split at their lower ends and embracing at their lower ends the cross bars and extending upward therefrom, rods extending longitudinally through the cross bars and through the side walls of the crate, rods extending at right angles to the first named rods but below the first named rods and extending transversely through the cross bars and the lower ends of the posts and through the end walls of the crate, and a plurality of sets of crossed rods extending through the posts at right angles to each other and through the side and end walls of the crate.
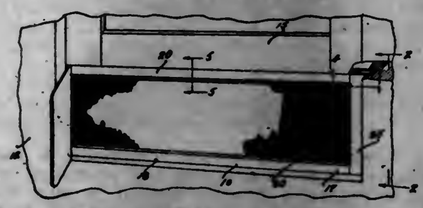
1,923,345
TELEGRAPHIC KEYING SYSTEM FOR ELECTRON TUBE CIRCUITS
James D. Wallace, Washington, D. C.
Application March 13, 1931. Serial No. 522,489
8 Claims. (Cl. 250—17)

1. In a signaling system, an oscillator circuit, an electron tube system including a cathode, a space charge grid, a control grid, an anode, and a shield grid, an input circuit connected between said control grid, said cathode and said oscillator circuit, an output circuit connected between said anode and cathode, a source of potential in said output circuit, a connection between a point on said source of potential and said shield grid, and a keying circuit connected between said space charge grid and a source of potential for applying a positive potential to said space charge



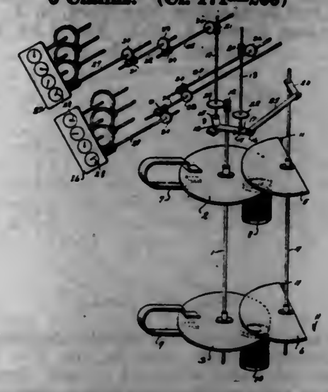
grid in accordance with telegraphic signals for correspondingly rendering said oscillator circuit effective upon said electron tube system.

1,923,346
SCREEN
William W. Watson, Jamestown, N. Y.
Application March 28, 1929. Serial No. 350,576
5 Claims. (Cl. 98—93)



1. A removable screen for window mounting comprising a frame, pressure means engaging one end of said frame, and a wind deflector joined to the other end of said frame, said pressure means being adopted to retain said screen and said deflector in engagement with each other and with said window mounting.

1,923,347
ELECTRIC METER
Henry F. Willis, Jr., Carbondale, Ill.
Application October 17, 1931. Serial No. 569,522
6 Claims. (Cl. 171—268)



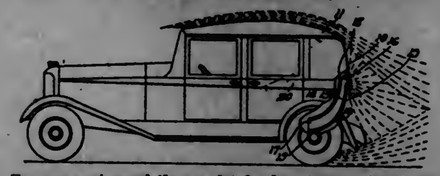
1. An electric meter for measuring current flow, comprising a rotary disk carrying shaft, electro-magnetic means for rotating said disk and shaft, a current registering gear train, shiftable means for operatively coupling said shaft with said train, and an armature having limited oscillatory movement, controlled and actuated by said electro-magnetic means according to the direction of current flow therethrough and connected with said shiftable means to actuate the same.

1,923,348
SHAVING AND SLICING MECHANISM
Robert K. Winning, Wauwatosa, Wis., assignor to Clum Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin
Application February 28, 1931. Serial No. 519,121
6 Claims. (Cl. 146—114)



1. A cutting device of the character described including, a bracket comprising complementary members having L-shaped portions of which intermediate portions of the longer arms are fastened together and the shorter arms are in spaced relation, the upper ends of said longer arms being apertured and spaced apart to provide bearings for a shaft, and the shorter arm of the outer member being provided with a threaded aperture adapted to receive a clamping screw, one of said members having an arm extending above said bearing apertures for the support of a hopper, together with a clamp in said threaded aperture, a shaft in said bearing apertures, a rotary cutter carried by the shaft, and a hopper detachably carried by said upwardly projecting arm, said cutter inclined upwardly in front of said hopper and coacting therewith for retaining the material to be acted on.

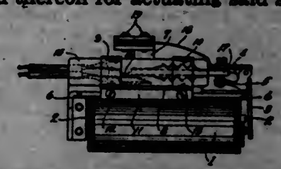
1,923,349
VACUUM BREAKER
Percy B. Wolverton, Chicago, Ill., assignor to Julia N. Larson, Chicago, Ill.
Application July 9, 1932. Serial No. 621,547
1 Claim. (Cl. 296—1)



In an automobile, a body having a back wall with an opening extending transversely of said body in a plane substantially equidistant from the top and bottom of said body, and walls coacting with said back wall to form a flume to the front of said back wall, said flume extending upwardly from the bottom of said body and having an opening in a position beneath the bottom and transverse of the rear part of said body, the opening in said flume being in the direction of travel of said automobile.

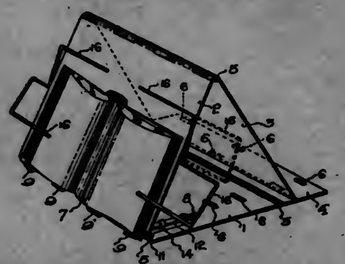
1,923,350
ELECTROMAGNETIC DEVICE
Frederic E. Wood, Hinsdale, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a Corporation of Delaware
Application November 21, 1931
Serial No. 576,529
7 Claims. (Cl. 200—87)

1. In an electromagnetic device having an armature and a circuit breaker of the type mounted within an evacuated glass container, a bracket mounted on said device, a stem on said glass container for actuating said circuit breaker at one end and having the other end in operative relation to the armature so as to be actuated thereby, an extension on said bracket having means supported thereon for actuating said stem in op-



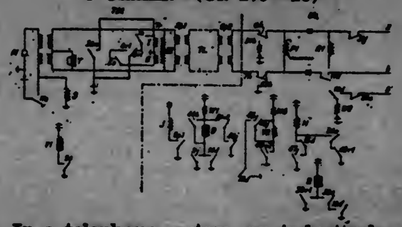
position to the armature to restore said circuit breaker to normal position after said armature has actuated the stem, a pair of flexible bands encircling said glass container at spaced intervals, and adjustable means for mounting said metal bands on said bracket so as to vary the relationship of the stem with respect to the armature and the circuit breaker.

1,923,351
ADJUSTABLE BOOK SUPPORT AND READING STAND
Minnie Woodley, Dallas, Tex.
Application December 29, 1931
Serial No. 583,665
3 Claims. (Cl. 45—80)



1. A combined book support and reading stand including a multiplicity of foldable sections, two of said sections comprising a base having a series of aligned projections thereon and against which another of said sections rests, and means carried by said base section for supporting the lower edge of a book.

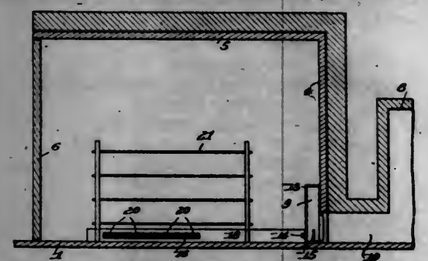
1,923,352
TELEPHONE SYSTEM
Alfred Wiesner, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft of Wernerwerk, of Siemensstadt near Berlin, Germany
Application February 19, 1932, Serial No. 594,065, and in Germany March 12, 1931
9 Claims. (Cl. 179—16)



1. In a telephone system, an inductively connected subscriber's line, an impulse receiving device at the incoming end of said line, a trans-

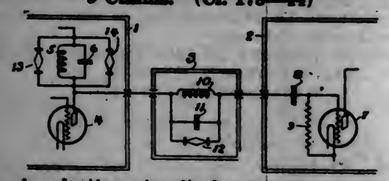
former at the outgoing end of said line, means responsive to the removal of the receiver by a calling subscriber for closing and opening a circuit including the primary winding of said transformer, said device operated responsive to the induced current generated by the closure of said circuit and restored to normal responsive to the induced current generated by the opening of said circuit, and means responsive when the calling subscriber replaces the receiver for momentarily closing the circuit including the primary winding and for altering the same so that the device will operate only responsive to the induced current generated by the opening of said circuit.

1,923,353
CORE OVEN
Jasper R. Willsea, Rochester, N. Y., assignor to Willsea Works, Rochester, N. Y., a Corporation of New York
Application February 19, 1931. Serial No. 516,998
1 Claim. (Cl. 24—19)



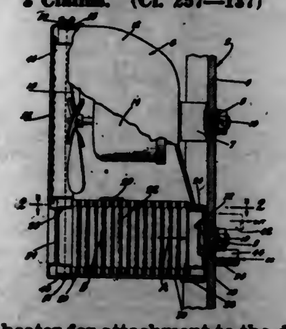
A core oven comprising a floor, rear, side and top walls, an elongated chamber arranged on the floor adjacent the rear wall and terminating at points adjacent the side walls of the oven, a source of heated air, a passageway connecting an intermediate point of said chamber with said source of heated air, openings in the front wall of said chamber spaced from but adjacent its bottom and arranged at spaced intervals substantially throughout its length to conduct heated air therefrom to the oven and from points below the cores to be baked, a baffle in said chamber in front of said passageway, and an outlet opening in the floor of the oven.

1,923,354
SELECTIVE CIRCUITS
Philip Ray Coursey, Richmond, England, assignor to Radio Patents Corporation, New York, N. Y., a Corporation of New York
Application February 12, 1931, Serial No. 515,260, and in Great Britain February 14, 1930
9 Claims. (Cl. 178—44)



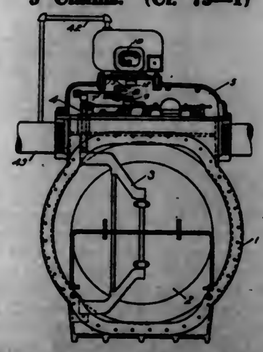
1. A selective circuit for passing modulated high frequency currents from an input to an output circuit, connected therewith comprising a rejector circuit individual to and serially arranged in said circuit and broadly tuned to the frequency of said currents to normally prevent the passage of said currents and an electro-mechanical frequency selective device associated with said rejector circuit to provide a sharply tuned coupling path for said high frequency currents.

1,923,355
CAR HEATER
Carl W. Darrah, Lockport, N. Y., assignor to Harrison Radiator Corporation, Lockport, N. Y., a Corporation of New York
Application December 12, 1931
Serial No. 580,525
2 Claims. (Cl. 257—137)



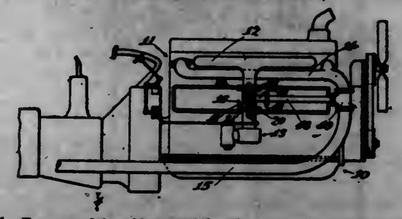
2. In a heater for attachment to the dashboard of an automotive vehicle, a blower at one end of the heater, a honeycomb structure at the other end, a water jacket at the dashboard side, a water inlet and a water outlet connected to the jacket, a partition in the jacket to prevent the water from flowing directly from the inlet to the outlet, and a second jacket at the heater side opposite the first-named jacket, said partition forcing the water to flow from the inlet across one side of the honeycomb structure to the second jacket and from the second jacket back through the other side of the honeycomb structure to the outlet.

1,923,356
METER
John C. Diehl, Erie, Pa., assignor to American Meter Company, New York, N. Y., a Corporation of Delaware
Application May 8, 1928. Serial No. 276,095
5 Claims. (Cl. 73—1)



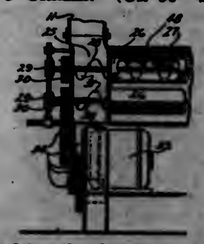
4. A volumetric gas meter comprising an index and means to drive said index to indicate the volume flow of gas through the meter; a second index; driving means for said second index operatively connected to said first named index, said drive means comprising a cam mechanism and a clutch; pressure responsive means connected for response to supply pressure to control said cam mechanism to drive said second index by said clutch at a rate varied in accordance with pressure variations to correct the indication of said second index to a predetermined lower base pressure.

1,923,357
MANIFOLD ATTACHMENT FOR INTERNAL COMBUSTION ENGINES
Frank Frederick William Doering, Los Angeles, Calif., assignor of one-half to Walter E. Hearn
Application January 21, 1930. Serial No. 422,231
6 Claims. (Cl. 123—119)



1. In combination with the accelerator throttle, intake valves, intake manifold and exhaust manifold of an internal combustion engine, of a valve body interposed between the accelerating throttle and inake valves, a valve having a stem mounted in said valve body and closing a port formed therein, a conduit connecting said valve body with the exhaust manifold, toggle joints connecting the stem of said valve with said housing, and spring means carried by said toggle joints normally seating said valve except when the accelerating throttle is closed while the engine is running faster than "idling" speed, whereupon said valve will open and permit circulation of fluid through said conduit and valve body into the intake manifold of the engine and remain open until the accelerating throttle valve is again opened, or when the engine returns to "idling" speed.

1,923,358
CHEESE PROCESSING MACHINE
Charles Andrew Eckberg, Plymouth, Wis., assignor to Lakeshire Cheese Company, Plymouth, Wis., a Corporation of Wisconsin
Application April 27, 1931. Serial No. 533,033
5 Claims. (Cl. 99—2)



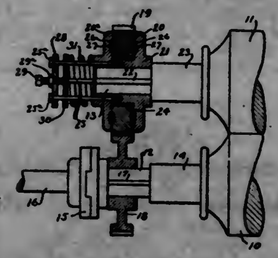
2. In a machine for heat treating cheese, the combination with means for preheating cheese to a generally liquiform condition, of a mixing, superheating and blending attachment comprising a hopper for receiving the preheated cheese, said preheating means being adapted for continuous delivery of said liquiform cheese into the hopper, a series of tubes leading from said hopper and having partially obstructed outlets, whereby the volume of cheese fed into the hopper is substantially equally distributed to the tubes, rotary conveyors, one for each tube, adapted to force cheese from the hopper through the tubes and their outlets, a fluid containing jacket enclosing said tubes, and means for circulating a heating fluid through said jacket, said conveyors being arranged in pairs and provided with means for rotating the members of each pair in opposite directions in proximity to each other within the hopper to facilitate blending the cheese and feeding it into the tubes.

1,923,359
PLAYGROUND AND OTHER BALLS AND METHOD OF MAKING SAME
Albert E. Fegan, Chicago, Ill., assignor to Geo. Young & Company, Chicago, Ill., a Corporation of Illinois
Application July 13, 1931. Serial No. 550,450
3 Claims. (Cl. 2—275)



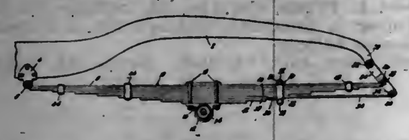
1. A ball provided with a core and a cover for the core, said cover comprising a plurality of sections connected together to fit smoothly over the core, the abutting cover section edges being apertured and inturned, a thread stitched through the apertured edges of two cover sections to form an endless seam in which the thread is substantially invisible externally of the cover and the thread ends securely fastened by the seam to prevent opening of the seam, said cover having the stitch-forming thread forming a number of stitches connecting adjacent edges together, said thread extending beneath the cover to a point removed from the first formed stitches, and forming stitches connecting adjacent cover edges between said unstitched portion and the beginning of said first formed stitches, said thread extending beneath the stitched portion of the cover to the unstitched portion and forming stitches connecting said initially unstitched cover sections, and the end of the thread extending under the cover to a point removed from said last formed stitches.

1,923,360
ROLL DRIVE
Edward Fitzgerald and Raymond M. Gleason, Franklin, Ohio
Application February 12, 1931. Serial No. 515,268
7 Claims. (Cl. 92—49)



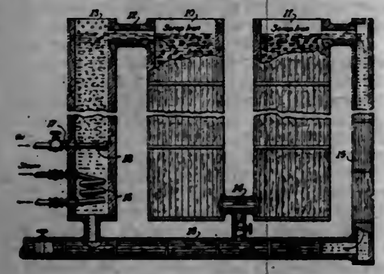
1. A compensating friction drive for press rolls comprising a driver roll, a driven roll, a drive gear rigidly attached to the shaft of the driver roll, a driven gear on the driven roll meshing with said driver gear, disks concentric with said driven gear, friction members between said driven gear and said disks, and an oil supply coupling member on one of said disks, said gear having an oil passage from one disk to the other.

1,923,361
SHOCK ABSORBING SPRING
Leonard E. Fowler, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware
Application March 11, 1929. Serial No. 346,050
11 Claims. (Cl. 267—48)



1. In a shock absorbing device, a multiple leaf spring pivoted at one end to a frame, a shackle pivoted to the frame and to the other end of said spring, a leaf spring pivoted at one end to said shackle and having its opposite end disposed and terminating between the leaves of said multiple leaf spring.

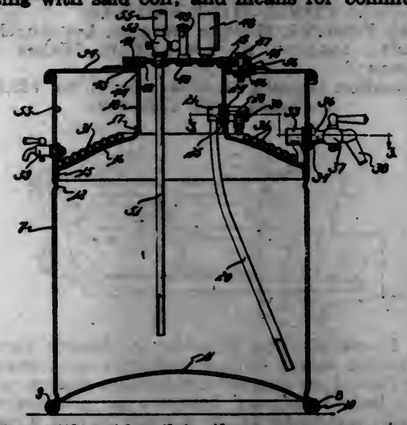
1,923,362
PRODUCTION OF IRON OXIDE PIGMENTS
Verne Frasee, Easton, Pa.
Application November 25, 1927
Serial No. 235,562
5 Claims. (Cl. 134—59)



1. In a process of producing yellow iron oxide pigments, the steps comprising mixing ferrous sulfate solution and lime, passing oxygen through the mixture at about room temperature and suitable concentration and producing thereby a yellow hydrated oxide of iron, passing oxygen through the mass at a temperature of about 140° F. and at suitable concentration whereby basic ferric sulfate is produced and hydrolyzed in the presence of the first hydrated oxide to hydrated ferric oxide and free sulfuric acid, transferring the mass to a reducing zone containing metallic iron to neutralize sulfuric acid with production of ferrous sulfate, and repeating the last two steps until a stable product of the desired color is obtained.

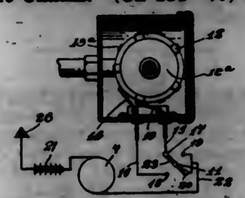
1,923,363
CONTAINER
Axel E. Fredrickson and Squire D. Tyler, Detroit, Mich.
Application September 14, 1931
Serial No. 562,678
5 Claims. (Cl. 225—40)

1. A device of the class described comprising a container; a concave partition forming member positioned in said container adjacent at its upper end for dividing said container into a pair of compartments, said partition having a central opening formed therein; the tubular neck engaging at one end in said opening and extending upwardly from and terminating at the upper end of said container; a cooling coil within the upper compartment and encircling said neck; an outlet delivery pipe within said container and communicating with said coil; and means for communi-



cating with said coil in the upper compartment and extending exteriorly of said container.

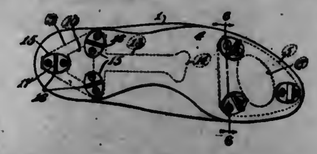
1,923,364
AUTO OILING DEVICE
Frank George Frenger, New York, N. Y., assignor, by mesne assignments, to The Lubrication Corporation, South Bend, Ind., a Corporation of Delaware
Application August 27, 1925, Serial No. 52,865
Renewed March 26, 1930
16 Claims. (Cl. 184—70)



1. An automatic lubricating system for vehicles, comprising lubricant supply means, electrical means for operating said supply means, and two parallel-connected circuit branches including means for controlling said electrical means, said controlling means comprising a contacting device moved in accordance with the distance travelled by the vehicle, two fixed contact members respectively connected in said circuit branches and arranged to make contact alternately with said contacting device, and a limit switch actuated by said electrical means to transfer the circuit connection for said electrical means from either one of said circuit branches to the other, after a predetermined cycle of operation of said electrical means.

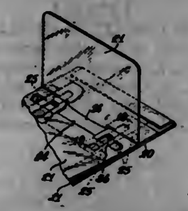
1,923,365
ATHLETIC SHOE
Frank E. Gaines, Indianapolis, Ind.
Application November 11, 1931
Serial No. 574,204
2 Claims. (Cl. 36—2.5)

1. A base ball player's shoe comprising an upper, and an inner sole and an outer sole secured to said upper and both extending the full length of the shoe and across the arch, the front portion of said sole being curved upwardly from in front of the ball of the shoe and the top of the upper of the shoe being shortened from the toe back to the laced portion, a stiffener plate secured between the outer and inner soles in said upturned portion and having its rear end stopping in front of the ball of the shoe, a stiffener plate secured between the inner and outer



sole and extending from a point behind the ball of the shoe across the arch to the heel, cleats secured to the toe portion of the sole by means engaging said stiffener plate, and cleats secured to the heel of the shoe.

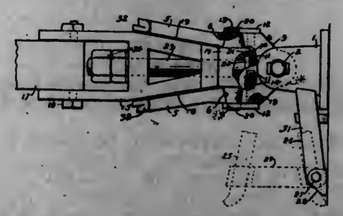
1,923,366
VISIBLE CARD INDEX
James Lyon Garfield, Drexel Hill, Pa.
Application August 9, 1929. Serial No. 384,587
16 Claims. (Cl. 129—16)



5. A support for a plurality of cards, a card comprising a stub, and a record sheet hinged to the stub, tab connections between the stub and support toward opposite ends of the stub, and a plurality of extensions of the record sheet beyond the hinge line and between the spaced tab connections.

16. A support, a pair of card stubs mounted upon the support and a tongue cut from one stub and bent back laterally upon the stub and interlocking with the other stub.

1,923,367
TRAILER HITCH
Arnold M. Gifford, San Jose, and Robert Smith, Bonnie Brae Station, Calif.
Application March 7, 1932. Serial No. 597,274
6 Claims. (Cl. 280—33.15)



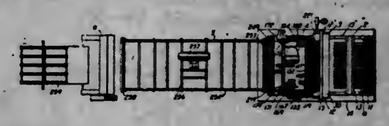
3. A trailer hitch comprising a coupling part mounted to swing laterally and including diverging sides formed with seats and grappling means, and a cooperating coupling part movable between the sides and provided with a cross coupling pin engageable with the seats or the grappling means.

1,923,368
SHAFT COUPLING WITH POWER STORAGE
Rudolf Goldschmidt, Charlottenburg, Germany, assignor, by mesne assignments, to Nathan Kann, New York, N. Y.
Original application February 14, 1924, Serial No. 692,873, now Patent No. 1,758,439. Divided and this application January 29, 1930. Serial No. 424,393
3 Claims. (Cl. 64—97)



1. Mechanism for coupling together two shafts with a connection resilient by virtue of centrifugal forces comprising a lever arm, mounted on one end of said shafts, fly-weights pivoted to the ends of said lever, a second lever mounted on said other shaft, slots on said second lever, pivots on said first lever for co-operating with said slots to form a lost motion connection between said arms, said fly-weights being free to change their radius of rotation under the influence of centrifugal forces except as restrained by the turning moment communicated from one shaft to the other through said lost motion connection.

1,923,369
APPARATUS FOR MANUFACTURING WELDED WIRE MATTINGS
Herbert W. Gronemeyer and Fred C. Herbster, Kansas City, Mo., assignors to Sheffield Steel Corporation, Kansas City, Mo., a Corporation of Delaware
Application June 28, 1932. Serial No. 619,726
18 Claims. (Cl. 140—112)



1. In an apparatus of the character described, a plurality of spaced welding heads, means for guiding a longitudinal wire through each welding head, means for feeding cross wires individually to the welding heads, means for actuating the welding heads to weld the cross wires to the first named wires, gripping means for engaging a cross wire adjacent the welds, a head member for supporting the gripping means, means for slidably mounting the head member for movement to and from the welding heads, means for reciprocating the head member including means for moving the gripping means to and from gripping engagement with the cross wire for intermittently advancing the longitudinal wires, and means actuated by said actuating means for gripping a cross-wire during reciprocation of the head member in the direction of the welding head.

1,923,370
GYPSUM CONCRETE MIXTURE
Waldemar C. Hansen, Westfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine
No Drawing. Application February 12, 1931 Serial No. 515,416
2 Claims. (Cl. 106—34)

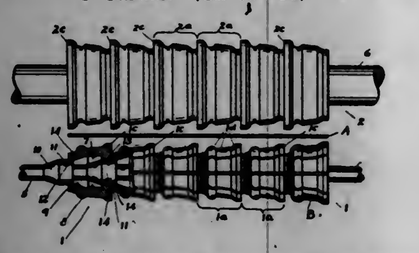
1. A set mass in which the binder consists of from 20% to 50% Portland cement, and from 80% to 50% calcined gypsum, the mix having been gauged with the requisite amount of water to cause setting, and an inert filler, the set mass being strong, light, substantially insoluble and characterized by its inherent quickness of set as compared with Portland cement, and more insoluble than set gypsum alone.

1,923,371
WEAR LOOP AND BOX LOOP
Howard V. Hanson, Walla Walla, Wash.
Refiled as part of abandoned application Serial No. 416,581, December 26, 1929. This application December 2, 1931. Serial No. 578,683
2 Claims. (Cl. 24—183)



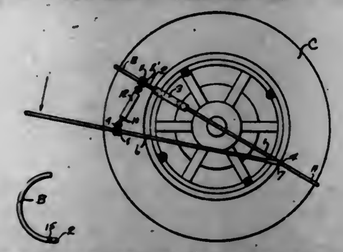
1. A combined wear loop and box loop, consisting of a flexible material, of T shape, the vertical stem providing a body and a securing flap adapted to form a wear loop intended to detachably encircle a connecting member, and the horizontal bar thereof being adapted to form a box loop, a recess provided in said body, a connecting means provided on the end of said stem, and adapted to engage the body through said recess to complete the wear loop, said box loop being adapted to receive a tension member for engagement with the wear loop and positioned to secure the fastening means in said recess.

1,923,372
DEVICE FOR THE MANUFACTURE OF PIPE FITTINGS
Rudolph J. Heckel, Rochester, Pa.
Application March 8, 1930. Serial No. 434,334
3 Claims. (Cl. 78—88)



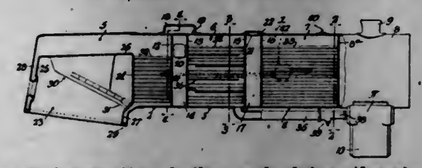
3. In apparatus for forming a plurality of tubular fixtures whose walls include intermediate their ends regions of different diameter than the continuations of the walls from such regions, the combination of a collapsible forming roll comprising a plurality of sections each so shaped that together they provide a rotary die upon which a strip of metal may be rolled to form such fixtures, a roll whose face is complementary in form to the rotary die provided by said sections, and means for effecting rotation of said rolls.

1,923,373
AUTO BRAKE TESTING DEVICE
Henry G. Hedde, Rosalia, Kans.
Application July 29, 1932. Serial No. 625,913
3 Claims. (Cl. 265—1)



1. In a brake testing device, a pair of rods, axially aligned, each rod having a hook on the outer end thereof, the rods threadedly connected by a turn-buckle to vary the distance between the hooks, a lever pivotally engaging with one rod, and a scale connecting the free end of the lever with the other rod.

1,923,374
LOCOMOTIVE BOILER
Walter H. Hinsch and John Baker, Chicago, Ill., assignors to Locomotive Firebox Company, Chicago, Ill., a Corporation of Delaware
Application April 16, 1931. Serial No. 530,520
4 Claims. (Cl. 122—466)

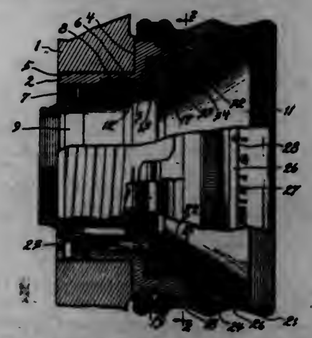


1. A locomotive boiler embodying therein a boiler shell formed to provide longitudinally spaced steam generating, steam superheating and feed water heating compartments respectively with chambers therebetween, a smoke box associated with one end of the feed water heating compartment, a firebox arranged in said steam generating compartment and including a flue sheet and means providing for the passage of the products of combustion from the firebox to the smoke box and including sets of flues in said steam generating, superheating and feed water heating compartments respectively, the flues in the superheating compartment being of a diameter less than those in the feed water heating compartment and arranged in line therewith.

1,923,375
WELDING
Robert W. Holt, Chicago, Ill., assignor, by mesne assignments, to Franklin M. Warden, Chicago, Ill.
No Drawing. Application December 4, 1929 Serial No. 411,679
3 Claims. (Cl. 148—26)

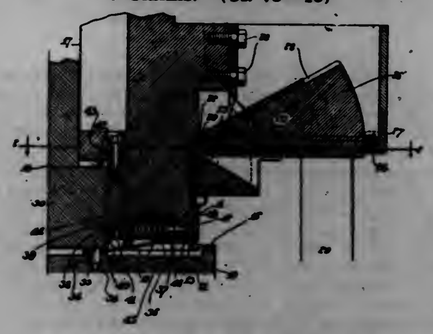
1. A flux composition comprising 3 to 11 parts of sodium aluminum fluoride, carbon in the proportion of not more than substantially two parts, sodium fluoride in the proportion of not more than substantially 4 parts, sodium chloride in the proportion of substantially 8 to 20 parts, potassium chloride in the proportion of substantially 5 to 12 parts, and magnesium oxide in the proportion of not more than substantially 2 parts.

1,923,376
INTERCHANGEABLE LENS MOUNT STRUCTURE
Albert S. Howell, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a Corporation of Illinois
Application April 2, 1931. Serial No. 527,100
11 Claims. (Cl. 95—45)



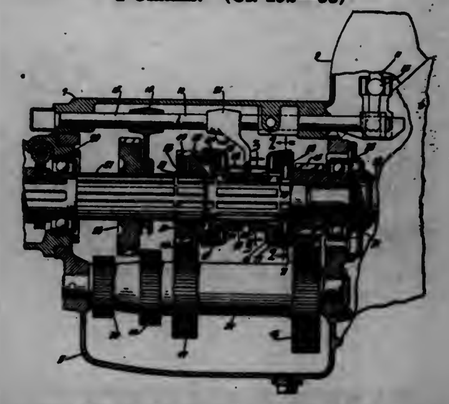
1. In a device of the character described the combination with a lens mount formation, of a lens unit mountable on said mount formation and comprising a lens member and an adjusting member angularly and axially movable with reference thereto and having axial adjusting screwthread engagement therewith, means axially fixing said adjusting member on said mount formation and permitting relative angular movement thereof and releasable for lens unit removal, and means angularly fixing said lens carrying member with said mount formation and permitting relative axial movement thereof and disengageable for lens unit removal.

1,923,377
RIVET FEEDING MACHINE
James W. Hughes, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania
Application May 4, 1929. Serial No. 360,389
7 Claims. (Cl. 78—46)



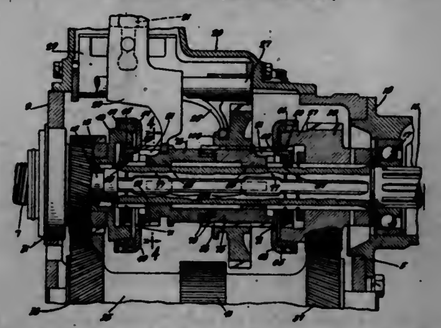
1. An internal rivet feeding machine comprising a work support having means thereon for positioning an annular article, a rivet feeding head reciprocable into and out of the interior of an annular article positioned by said means, means associated with said head for accurately locating and clamping the work on said support, a rivet feeding magazine positioned by the head and carried thereby, and means operable by the reciprocatory movement of said head for feeding rivets from said magazine to said head.

1,923,378
SYNCHRONIZING CLUTCH MECHANISM
John H. Hunt, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware
Application January 11, 1932. Serial No. 585,999
4 Claims. (Cl. 192—53)



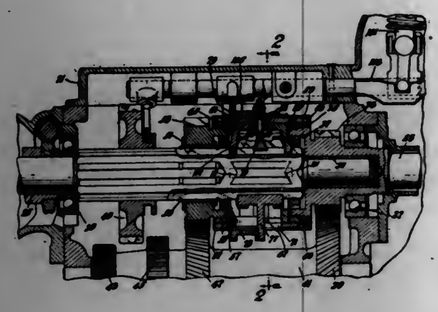
1. In a synchronizing transmission, driving and driven members, successively operable friction clutch elements and jaw clutch elements to effect driving engagement between said members, spring means operably connected to one of said members and to one of said frictional clutch elements whereby the jaw clutch elements may be circumferentially adjusted and inter-engaged while the friction clutch elements remain in engagement.

1,923,379
DOUBLE INERTIA CHECK FOR SYNCHRONIZING CLUTCHES
John H. Hunt, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware
Application January 16, 1932. Serial No. 586,978
10 Claims. (Cl. 192—53)



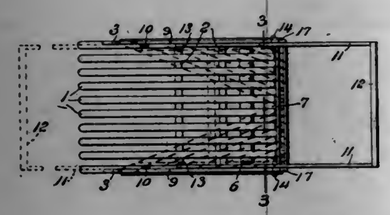
1. In synchronizing transmission, a shaft, a pair of friction clutch elements one of which is movable, a pair of jaw clutch elements one of which is movable, shifting mechanism for the movable jaw clutch element, cam faces on the movable clutch elements engaged by the initial rotary movement of said movable friction clutch element, said cam faces operable to resist the axial movement of the movable jaw clutch element, said resistance having an axial component, and means to resist said axial component whereby the axial component is not transmitted to the shifting mechanism.

1,923,380
SYNCHRONIZING CLUTCH MECHANISM FOR AUTOMOBILE TRANSMISSIONS
John H. Hunt and Olaf Rasmussen, Detroit, Mich.
Application February 23, 1932. Serial No. 594,506
12 Claims. (Cl. 192—53)



1. In a synchronizing transmission combining friction clutch elements and jaw clutch elements, energizing means for said friction clutch elements actuated by an approaching movement of the jaw clutch elements, and positively acting means to de-energize said energizing means and actuated by a movement of separation of said jaw clutch elements.

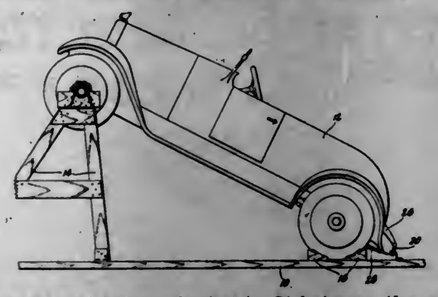
1,923,381
RAKE
Joseph W. Layne, Higginsville, Mo., assignor to The Roloway Manufacturing Company, Higginsville, Mo., a Corporation of Missouri
Application December 5, 1932. Serial No. 645,708
6 Claims. (Cl. 55—10)



1. In a rake, a bottom frame having longitudinal collecting teeth, a transverse back wall member and two longitudinal spaced apart side wall members hinged to said frame and adapted to be swung from a flat collapsed position to an upright position, and means for releasably fastening said back and side members in the upright position.

1,923,382
VEHICLE SHIPPING DEVICE
Archie W. Leet, St. Louis, Mo., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware
Application December 11, 1929
Serial No. 413,260
10 Claims. (Cl. 188—32)

1. A holding member for anchoring a vehicle to the floor of a shipping conveyance consisting of a member, one end of which is adapted to be secured to the floor, the other end being T-

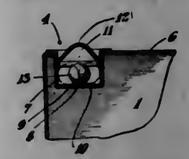


shaped and being adapted to fit between the vehicle spring shackle bars.

1,923,383
PROCESS OF GRINDING MATERIALS
John H. Lundteigen, Detroit, Mich., assignor to The Super Cement Company, a Corporation of Michigan
No Drawing. Application January 26, 1929
Serial No. 335,392
3 Claims. (Cl. 83—94)

1. A process of grinding materials consisting in mixing a segregating agent and a diffusing agent together and delivering the same to the material to be ground during the grinding operation and grinding the whole together.

1,923,384
AIRPLANE FUEL TANK
Roy G. Miller, Farmingdale, N. Y., assignor to The Aviation Patent and Research Corporation, a Corporation of New York
Application April 26, 1932. Serial No. 607,544
2 Claims. (Cl. 244—31)

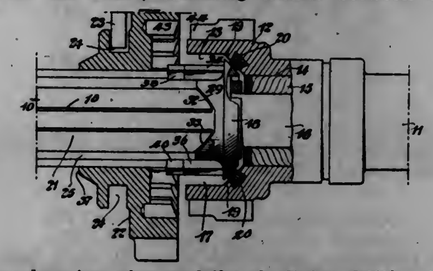


2. An airplane fuel tank carried within streamline confines of the wing of said airplane and provided with a plurality of spaced vent devices, each of said devices including a casing carried by said tank substantially within the latter, each of said casings having a plurality of spaced vent apertures in its lower wall, the upper portion of the casing being of tapered restricted size with an aperture in the apex of the tapered upper wall, and a free floating and gravity actuating ball valve element carried in said casing so as to open and close each of said vents in accordance with the disposition of said fuel tank during various maneuvers of said airplane for insuring against leakage of fuel from said tank.

1,923,385
SPRINGLESS CLUTCH SYNCHRONIZER
Howard J. Murray, New York, N. Y., assignor to R. M. Company Inc., East Pittsburgh, Pa., a Corporation of Delaware
Application October 17, 1928. Serial No. 313,175
6 Claims. (Cl. 192—53)

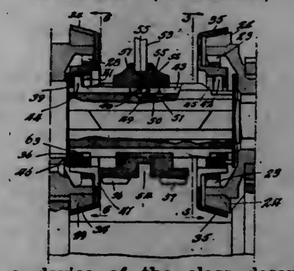
2. In a device of the class described, the combination of a spline shaft, an element of a

mechanical clutch fixed relative to the axis of said shaft, a manually actuated mechanism including a clutch element splined to the shaft to turn therewith and adapted to be moved axially into mechanical clutching engagement with the relatively fixed element, means for causing the elements to approach the same speed before they are moved into their clutched relation, said means including a synchronizer ring mounted on the shaft between the elements and turning bodily with the shaft, camming means between the



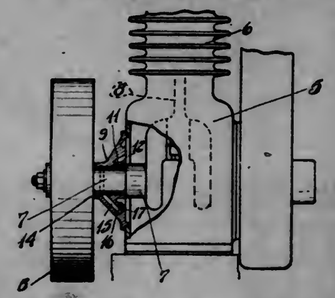
synchronizer ring and the shaft for shifting the synchronizer ring into clutching position said ring and the relatively fixed element provided with conical clutch faces coacting to provide a friction clutch of the cone type, said manually actuated mechanism and said synchronizer ring having rigid parts contacting at circumferentially spaced apart points and adapted to be moved into axially directed bearing engagement as the elements are moved towards their clutched position to cause the cone friction clutch to become operative.

1,923,386
CLUTCH LOCK FOR SYNCHRONIZERS
Howard J. Murray, New York, N. Y., assignor to R. M. Company, Inc., East Pittsburgh, Pa., a Corporation of Delaware
Application May 13, 1930. Serial No. 452,118
22 Claims. (Cl. 192—53)



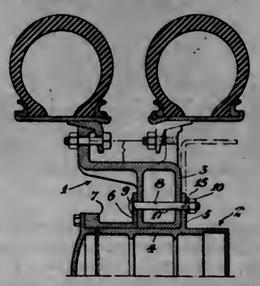
22. In a device of the class described, the combination of two positive clutches, synchronizing means for causing the elements of each of said clutches to approach the same speed, said synchronizing means including two friction clutches mounted for rotary movement about a common axis and having their movable elements facing each other and axially movable relative to each other and each movable to and from its clutching engagement with its companion, a single control mechanism having a neutral position, and movable therefrom in one axial direction to cause the clutch element at its advance end to engage with its companion, said control mechanism including means disposed, when the mechanism is in said neutral position, to engage both movable elements to cause them to turn rotatively with the control mechanism, and said control mechanism when shifted in one direction or the other acting to move the element at its advance end into frictional engagement with its companion and simultaneously to lock the friction element at the other end so as to rotate with the control mechanism and thus defeat any tendency for said last named friction element to turn with its companion.

1,923,387
INTERNAL COMBUSTION ENGINE
Harry B. Nelson, Saginaw, Mich., assignor to Nelson Brothers Company, Saginaw, Mich., a Corporation of Michigan
Application July 23, 1932. Serial No. 624,183
5 Claims. (Cl. 184—6)



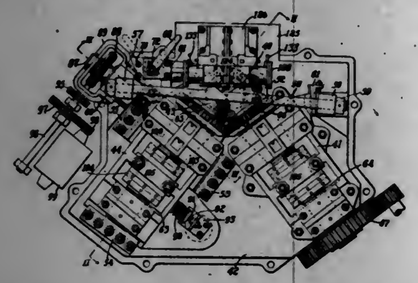
1. In an internal combustion engine including a crank case, a crank shaft, a bearing for the shaft, means for preventing lubricant from being forced out through the outer end of said bearing, and including means for returning lubricant from the outer end of the bearing to the crank case, said means forming a trap in which the returning lubricant forms a seal.

1,923,388
NUT LOCK FOR VEHICLE WHEELS
William Nelson, Minneapolis, Minn., assignor to Burnett Walker, New York, N. Y.
Application June 7, 1928, Serial No. 283,520
Renewed May 18, 1932
3 Claims. (Cl. 301—9)



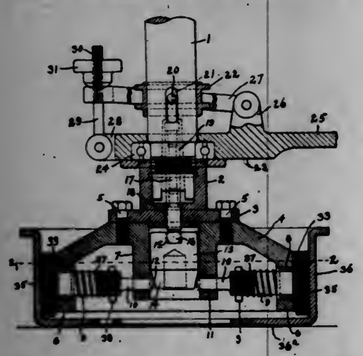
1. In a vehicle wheel construction, the combination of a hub member, a felly member mounted on said hub member and tending to have rotative movement relative to said hub member, bolts passing through a portion of said hub member and a portion of said felly member, retainer blocks carried by said bolts, means to cause said retainer blocks to tend to move tangentially to the said rotative movement between said hub member and said felly member whereby said bolts are clamped when said members tend to move, and nuts on said bolts to secure said blocks solidly in place.

1,923,389
METHOD OF HOT ROLLING RADIALLY TAPERED DISKS
Otho M. Otte, Tarentum, Pa., assignor, by mesne assignments, to Budd Wheel Company, a Corporation of Pennsylvania
Original application August 21, 1923, Serial No. 658,541. Divided and this application June 14, 1928. Serial No. 285,266
24 Claims. (Cl. 80—60)



13. The method of making radially tapered disks which consists in so supporting a blank for rotation between a pair of rolls that the roll contact line is above the center about which the blank rotates during rolling, and in tilting one of said rolls toward the other to decrease the angle between the roll axes during rolling.

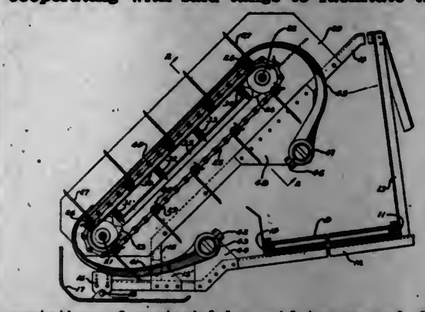
1,923,390
LAPPING MACHINE
Clyde E. Parkhurst, Moline, Ill., assignor to Moline Tool Company, Moline, Ill.
Application February 15, 1932. Serial No. 593,015
4 Claims. (Cl. 51—184.3)



1. In a lapping machine, a spindle mounted to rotate and reciprocate, a circular head fixed to said spindle, a plurality of stones mounted pivotally on the periphery of said head, and means for holding said stones normally and yieldably against a reversal in position.

1,923,391
HARVESTER
Elmer Patterson, San Leandro, Calif., assignor to Caterpillar Tractor Co., San Leandro, Calif., a Corporation of California
Application April 20, 1931. Serial No. 531,420
22 Claims. (Cl. 56—364)

1. In a pick-up, a draper, a movable endless chain of tang bars over which material is transported, tangs on said bars, and stationary means cooperating with said tangs to facilitate trans-

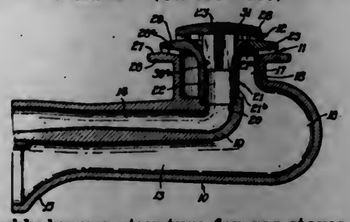


portation of material by said tangs and disengagement of material therefrom.

1,923,392
OLEFIN-POLYSULPHIDE PLASTIC
Joseph C. Patrick, Kansas City, Mo.
No Drawing. Application June 10, 1929, Serial No. 369,912. Renewed January 19, 1933
36 Claims. (Cl. 260—17)

1. In the production of an olefin-polysulphide plastic, reacting upon a stabilized aqueous polysulphide solution with a reactive olefin dihalide.

1,923,393
GAS BURNER
George E. Pickup, Newark, Ohio, assignor to the Wehrle Company, Newark, Ohio, a Corporation of Ohio
Application February 17, 1932. Serial No. 593,480
1 Claim. (Cl. 158—116)

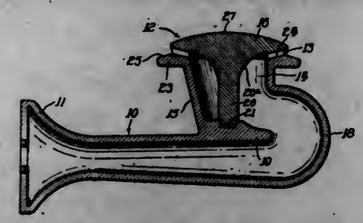


A double burner structure for gas stoves comprising an elongated mixing tube having two longitudinal passages arranged one above the other, an annular wall projecting upwardly from said tube adjacent to one end thereof, said end of the tube having a goose-neck formed thereon extending beyond said wall and constituting an enlarged continuation of the lower one of said passages communicating with the space defined by said annular wall, an extension forming a continuation of the upper one of said passages into said enlarged portion of the lower passage, a removable main burner head cooperating with said wall to form a main burner and connected with said extension to define an upward continuation of said upper passage, and a removable auxiliary burner head cooperating with said main burner head to form an auxiliary burner.

1,923,394
GAS BURNER
George E. Pickup, Newark, Ohio, assignor to The Wehrle Company, Newark, Ohio, a Corporation of Ohio
Application February 17, 1932. Serial No. 593,481
4 Claims. (Cl. 158—116)

1. A burner for gas cooking ranges comprising an elongated mixing tube having an annular wall communicating therewith and projecting upwardly from one end thereof, a web formed

thereon projecting from one side of said wall toward and beyond the center thereof adjacent to the lower end of said wall, a burner head adapted to overlie the upper edge of said wall



and shaped to cooperate with said wall in defining fuel discharge ports, and a stem extending downwardly from said head and engaging said web to determine the position of said head.

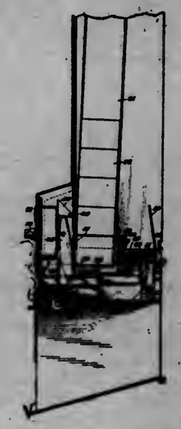
1,923,395
APPARATUS FOR MAINTAINING VACUUM IN OIL WELLS OR THE LIKE
M Frankness Reed, Stephensville, Tex.
Application July 29, 1932. Serial No. 625,794
6 Claims. (Cl. 103—229)



1. A device for maintaining a vacuum in an oil well including a bailed bucket having a weighted conical bottom, a tube therein, a valve assembly mounted upon the upper end of said tube, a flexible cylindrical packer secured adjacent to the lower portion of the said bucket capable of expansion by the said conical bottom to assume a substantially funnel shape thereby to afford a seal within an oil well casing and means to withdraw the said conical bottom to cause the contraction of the said packer to break the said seal.

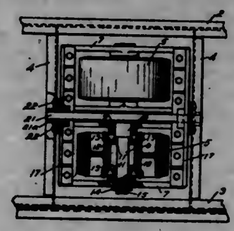
1,923,396
VENDING MACHINE
Myron H. Richardson, Chicago, Ill., assignor to Advance Machine Company, Chicago, Ill., a Corporation of Illinois
Application March 19, 1930. Serial No. 437,210
12 Claims. (Cl. 312—67)

1. In a vending machine a delivery station, means for holding a supply of articles adjacent said station, an ejector for the articles, means for actuating the ejector, a container for holding an additional supply of articles, means pivotally mounting said container, means automatically rendered active at a predetermined time in the operation of the machine whereby the said container will be moved about its pivot by the operation of the ejector and whereby the articles in



said container may be ejected by said ejector, and means for locking said container in either of the positions to which it is moved, the said locking means being rendered inactive in one position of the container by the third recited means.

1,923,397
VEHICLE
Philip T. Robin, Erie, Pa., assignor, by mesne assignments, to The Wellman Engineering Company, Cleveland, Ohio, a Corporation of Ohio
Application December 6, 1929. Serial No. 412,111
5 Claims. (Cl. 280—81)

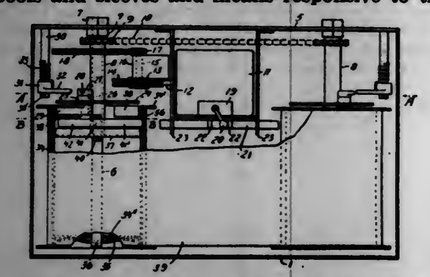


2. In a vehicle, the combination of a vehicle frame; a truck comprising a pair of wheels side by side, a box frame for each wheel, an axle for each wheel, each axle supporting a box frame, and cross beams connecting the ends of the box frames whereby said frames are rigidly connected; and a swivelled connection having its axis extending fore and aft between the beams and the truck frame.

1,923,398
DISPLAY DEVICE
Walter E. Schwanhausser, Maplewood, N. J.
Application April 18, 1932. Serial No. 606,017
19 Claims. (Cl. 40—53)

1. In a display device a strip having matter to be displayed, spools to support and actuate the strip and driving means therefor in combination with stationary spindles to support said spools rotatable sleeves on the spindles rotated

by the driving means, clutches between the spools and sleeves and means responsive to the



movements of the strip to adjust the clutches in effective and ineffective positions.

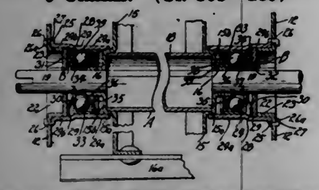
1,923,399

AUTOMATIC TAKE-UP FOR SHAFT BEARINGS

Allen W. Sharp, Ottumwa, Iowa, assignor to Johnson Pressed Gear Co., Ottumwa, Iowa, a Corporation of Iowa

Application March 24, 1930. Serial No. 438,490

6 Claims. (Cl. 308—189)



1. In a structure of the class described, a supporting element having an opening therein and formed with a flange around said opening, a bearing casing element for receiving said flange and secured to said support and having an annular shoulder on its interior spaced from said flange, a ring received between said flange and shoulder having inclined inwardly projecting spring fingers, a shaft structure including a spindle element, a member mounted on the spindle element comprising a tubular portion having an outwardly extending part terminating in an annular flange received in the end of said bearing casing, and an anti-friction bearing including anti-friction members and relatively movable race members, one of said race members being arranged in engagement with said spring fingers and the other in engagement with said tubular member.

1,923,400

TRACTOR LISTER CULTIVATOR

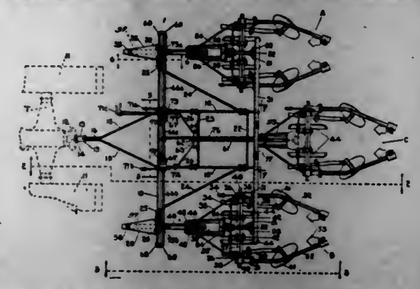
Walter H. Silver, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois

Application May 25, 1928. Serial No. 280,420

45 Claims. (Cl. 97—143)

1. A tractor lister cultivator comprising outwardly disposed and intermediate cultivator gangs, and draft means supported on said outwardly disposed gangs and flexibly connecting said gangs to the tractor to permit relative vertical and lateral movement between said gangs.

30. In combination, a cultivator comprising spaced gangs, a rigid draft frame adapted to be supported at its front end on a propelling means for horizontal swinging relative thereto, means pivotally connecting said gangs at their forward ends to said draft frame for the transmission of draft to said gangs, a transverse bar, means supporting said bar on said gangs at points remote from the draft connection of the gangs to the draft frame providing for relative lateral movement between the gangs and preventing the gangs from tilting laterally, and means de-



pending from said bar for supporting the rear end of said draft frame in substantially level position at two widely spaced points, thereby giving a three-point support for the draft frame to prevent tilting thereof relative to the gangs.

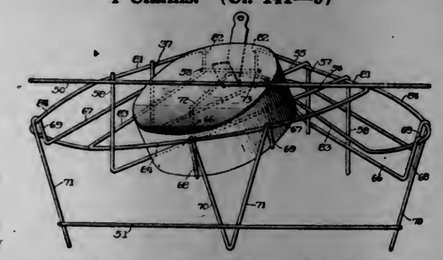
1,923,401

DISHWASHING MACHINE

Edgar S. Stoddard, Berwyn, Ill., assignor to The Conover Company, Chicago, Ill., a Corporation of Illinois

Application March 7, 1930. Serial No. 433,855

4 Claims. (Cl. 141—9)



1. A pot and pan rack provided with a series of compartments and composed of a series of continuous wire systems comprising an inner and several outer coaxial rings, each ring lying in a horizontal plane, a partitioning wire system extending through the entire rack structure and forming the side walls of the compartments, a number of centered transverse wire systems extending through the entire rack and composed of successive vertical and transverse sloping portions, corresponding portions of each of said transverse wire systems being parallel to one another, and a series of downwardly and outwardly sloping radial wire systems, one in each compartment, provided with extensions forming supporting legs, all of said systems being rigidly attached to one another.

1,923,402

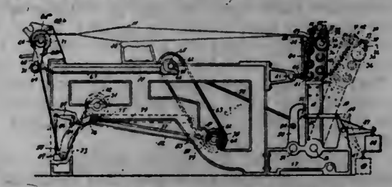
WARP FEEDING MECHANISM FOR WIRE WEAVING MACHINES

Herbert L. Thompson, Elgin, Ill., assignor to Reynolds Wire Co., Dixon, Ill., a Corporation

Application March 30, 1931. Serial No. 526,321

15 Claims. (Cl. 139—100)

1. In a wire cloth weaving loom, a plurality of warp wire feeding rolls arranged for providing for the feeding of a plurality of warp wires at the same rate of speed, a grooved guide shaft arranged in the path of the warp wires ahead of the rollers, and a rocker bar for intermittently



pulling the wires around the shaft for affording a relatively slack section of wires between the shaft and the rollers.

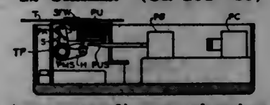
1,923,403

HIGH SPEED TAPE RECORDER

Lawrence H. Webb, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a Corporation of Delaware

Application February 12, 1931, Serial No. 515,237, and in Great Britain March 12, 1930

12 Claims. (Cl. 164—89)



2. In a tape recording mechanism responsive to impulse signals and to spacing signals, means for stepping the tape and relay means for controlling said stepping mechanism characterized in that it is differentially responsive to impulse signals and spacing signals.

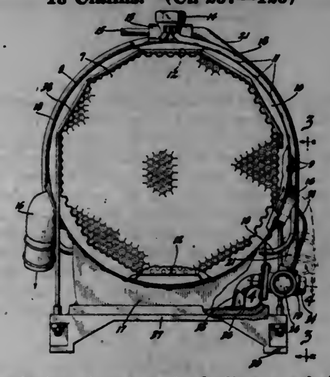
1,923,404

AIRPLANE RADIATOR

James A. White, Lockport, N. Y., and Harold Caminez, Indianapolis, Ind., assignors to Harrison Radiator Corporation, Lockport, N. Y., a Corporation of New York

Application April 15, 1931. Serial No. 530,420

13 Claims. (Cl. 257—125)



8. Radiator structure including a substantially circular assembly of tubes, each having intermediate its ends a reduced portion to provide spaces therebetween, an annular band of substantially channel shape in cross section encircling said assembly and having flexible side walls, and means to divide the space within the channel into inlet and outlet headers for the spaces between the tubes, an overflow tank secured to the exterior of the band, and means communicating said tank with one of the headers.

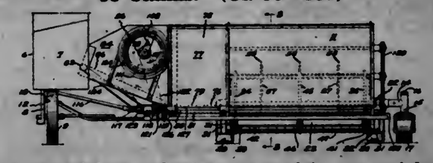
1,923,405

PICK-UP FEEDER

Elmer E. Wickersham, Stockton, Calif., assignor, by mesne assignments, to Caterpillar Tractor Co., San Leandro, Calif., a Corporation of California

Application January 24, 1928. Serial No. 249,006

53 Claims. (Cl. 56—364)



1. A pick-up feeder, comprising a pick-up adapted to engage bundles in a haphazard manner, and means for substantially disengaging said bundles from said pick-up to permit their arrangement in a predetermined manner thereon.

1,923,406

METHOD OF MAKING METALLIC FILMS UPON BODIES OF NONCONDUCTING OXIDES, ESPECIALLY FOR OXIDE FILAMENTS IN DISCHARGE TUBES

Erich Wiegand, Hohen-Neuendorf near Berlin, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie mit beschrankter Haftung, Berlin, Germany, a Corporation of Germany

No Drawing. Application March 30, 1927, Serial No. 179,721, and in Germany April 1, 1926

7 Claims. (Cl. 250—27.5)

7. An electrical conductor which is subject to heat, comprising an electrically non-conducting oxide core, an electrically conducting coating upon said core consisting of the carbide of a metal and the carbide of the oxide core, and a coating consisting of an electron-emitting material.

1,923,407

PROCESS OF RECOVERING GLASERITE

Henry Teynham Woodward, Berkeley, Calif., assignor to Burnham Chemical Company, Reno, Nev., a Corporation of Nevada

No Drawing. Application August 21, 1929 Serial No. 387,567

4 Claims. (Cl. 23—40)

2. The method of purifying crude glaserite crystals containing an impurity comprising mixing said crude glaserite crystals with an alkaline water to dissolve said impurity.

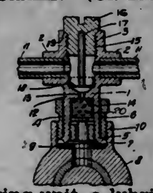
1,923,408

LUBRICATING APPARATUS

Oscar U. Zerk, Chicago, Ill., assignor to Alemite Corporation, Chicago, Ill., a Corporation of Delaware

Application November 9, 1929. Serial No. 406,111

9 Claims. (Cl. 184—7)



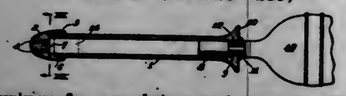
1. In a metering unit, a lubricant port, a valve seat around the port, a valve element of compres-

sible material forcibly pressed into sealing engagement with the seat and adapted to be compressed in the direction of fluid flow in the port progressively laterally.

1,923,409
OINTMENT APPLYING SYRINGE

Charles E. Ziegler, Pittsburgh, Pa., assignor to Clinical Supplies, Incorporated, Pittsburgh, Pa., a Corporation of Delaware

Application December 18, 1931
Serial No. 581,894
1 Claim. (Cl. 128—239)

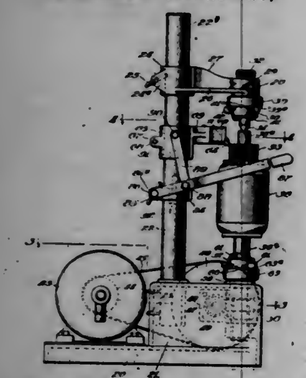


A syringe for supplying and covering the walls of a body cavity with viscous ointment, comprising a rigid tubular barrel provided with a bore of substantially uniform diameter from end to end, a tip shaped to readily enter said cavity removably connected to the distal end of said barrel, the tip having a counter-bored recess formed adjacent the barrel of substantially the diameter of the barrel bore, said tip being provided with a plurality of ointment outlet conduits of relatively large diameter extending longitudinally of the tip from the base of said recess to points spaced peripherally about the end of the tip, and being provided also with a series of lateral ointment outlet conduits of relatively large diameter radiating from the sides of said recess to the side of the tip with their outer ends offset with respect to the outer ends of said longitudinal conduits, the conduits directing ointment in a plurality of directions from the tip for uniformly covering the cavity walls, a floating piston disposed in the bore of said barrel for movement from its proximal end into said recess for substantially complete expulsion of an ointment charge through said conduits, and means connected to the proximal end of the barrel for supplying one-way air pressure rearwardly of the piston to impel it forwardly therein and forcibly expel the contained ointment through the tip.

1,923,410
TOOL FOR TURNING AND UNDERCUTTING ARMATURES

Herman W. Zimmerman, Chicago, Ill., assignor to Automotive Maintenance Machinery Co., Chicago, Ill., a Corporation of Illinois

Application November 27, 1931
Serial No. 577,655
16 Claims. (Cl. 29—27)



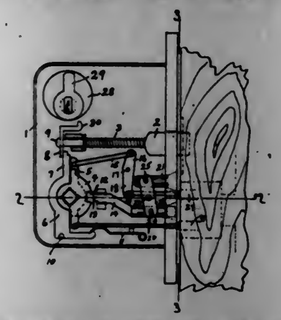
1. In a tool of the class described, a base, a standard immovably supported thereon, a laterally-extending arm adjustably carried by said standard, armature guide and centering means carried by said arm, a rotatable chuck device mounted on said base on center with said armature guiding and centering means, means for rotating said chuck device, a cutter slidably supported by said standard for reciprocation relative thereto, and operating mechanism adjustably carried by said standard and operatively connected to said cutter for reciprocating the latter.

10. In a tool of the class described, chuck means for supporting, centering and rotating the armature which comprises a hollow rotatable spindle adapted to receive one end of the armature shaft, gear means for rotating said spindle, a plurality of annularly-arranged, equally-spaced and longitudinally-extending slots in said spindle, a reversed L-shaped finger, pivotally mounted in each said slot with one leg thereof extending outwardly and its other leg swingable inwardly through said slot toward the axis of the spindle, and a single means adjustably carried by said spindle and engageable with said outwardly-extending finger legs for swinging all said inwardly-swingable finger legs simultaneously inward to similar extents.

1,923,411
LOCK DEVICE

George A. Armstrong, Youngstown, Ohio

Application May 13, 1930. Serial No. 451,964
2 Claims. (Cl. 70—29)



1. In a device of the class described, comprising a casing, a dual controlled latch bolt, inside and outside independently operable operating means including a two part hub and spindle for retracting the latch bolt, one hub part formed with a locking slot, a slide positioned so as to function with said slot for locking said one hub-part, lever means for moving said slide into said locking slot, in combination with a lock device for the purpose of retracting said latch bolt when said one hub-part is in a locked position for allowing resetting of the parts, substantially as described.

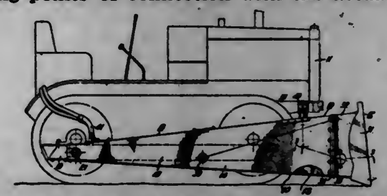
1,923,412
BULLDOZER

Edward R. Bacon, San Francisco, Calif., assignor to American Tractor Equipment Co., Oakland, Calif., a Corporation of Nevada

Application February 23, 1932. Serial No. 594,414
7 Claims. (Cl. 37—144)

1. In a bulldozer attachment for tractors, a structure including a scraper adapted to be positioned in front of the tractor, and a pair of thrust arms secured to the end portions of the scraper and extending rearwardly along the sides of the tractor, said arms being adapted to be

fulcrumed upon the tractor, actuating means mounted upon said structure and housed within one of said arms, and motion transmitting means having points of connection with the actuating

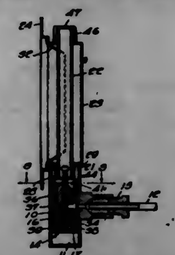


means, said structure, and the tractor, said last means including links and levers whereby said actuating means can exert a positive force between the tractor and said structure to urge said structure downwardly.

1,923,413
PRESSURE INDICATOR

Julius H. Becker, San Francisco, Calif.

Application June 10, 1930. Serial No. 460,158
6 Claims. (Cl. 73—110)



3. In a pressure indicator, a sack made of resilient material, means for impressing different fluid pressures upon the side walls of the sack, adjustable means for tensioning the side walls of the sack, a tube communicating with the sack, and a liquid disposed within the sack and said tube.

1,923,414
BALL AND SOCKET CONNECTION

David Benjamin, Cleveland Heights, Ohio, assignor to The Gabriel Company, Cleveland, Ohio, a Corporation of Ohio

Application July 14, 1928. Serial No. 292,612
4 Claims. (Cl. 287—90)

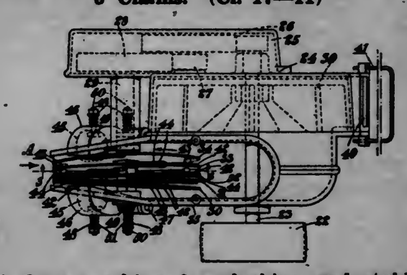


1. A socket mounting comprising a housing having a semi-cylindrical bottom wall and having the front thereof substantially open and provided with a semi-annular flange projecting upwardly from the front edge thereof, a bearing in said housing, the said bearing consisting of an upper and a lower anti-friction bearing member each having a hemispherical surface adapted to engage the cooperating surface of a ball and each having a substantially semi-cylindrical backing of resilient deformable material, the said bearing members providing, when assembled, a front opening for a stud by which the ball is supported, and means for securing the said bearing members in the said housing, said means comprising a locking member in said housing and having a front depending flange engaging the front of the backing on the upper bearing member and a body portion extending rearwardly from said flange and engaging the upper surface of the backing on the upper bearing member.

1,923,415
MACHINE FOR PLUCKING AND STUBBING BIRDS

George Cowley Bingham, Maldon, England

Application September 22, 1931, Serial No. 564,328, and in Great Britain December 11, 1930
6 Claims. (Cl. 17—11)

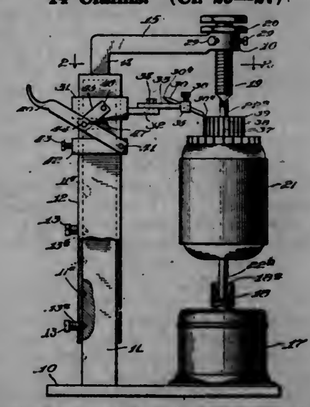


1. In a machine for plucking and stubbing birds, the combination of at least one pair of spaced coaxially arranged tiltable discs, means for rotating said discs, two pivotal projections upon that face of one disc of each pair which is directed towards the other disc of that pair, which projections are diametrically arranged one on each side of the axis of rotation of the discs, and means operating in a fixed position upon the discs during rotation thereof to constrain them to tilt towards one another.

1,923,416
ARMATURE TURNING AND UNDERCUTTING LATHE

Oscar C. Blomgren, Winnetka, Ill.

Application November 27, 1931
Serial No. 577,425
14 Claims. (Cl. 29—27)

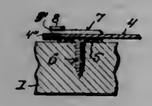


1. In structure of the class described, the combination of a base, an upwardly-projecting standard carried by said base, a rotatable chuck

structure supported by said base with its axis of rotation projected in upward direction substantially parallel with said standard, means for rotating said chuck structure, a support member mounted on said standard for longitudinal adjustment relative thereto and having a laterally-extending arm, a centering and supporting device carried by said arm in alignment with the axis of said chuck structure, and a cutter adjustable longitudinally of the armature being dressed.

12. In structure of the class described, means for supporting and centering the armature in position for rotation about an upwardly-directed axis which comprises a member having an inverted cone-shaped socket, the axis of which is disposed in vertical direction to receive one end of a vertically-disposed armature shaft, said socket having spaced, longitudinally-extending ribs around its wall against which the end of the armature shaft seats, drive-engagement between the armature shaft and said ribs being effected through the pressure imposed by the weight of the armature.

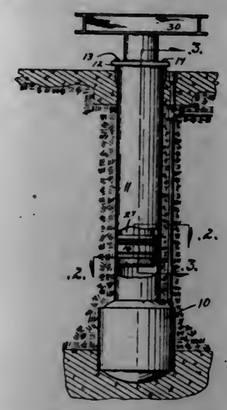
1,923,417
FOLDING FURNITURE LEG
William M. Boenning, Manitowoc, Wis.
Application November 9, 1931. Serial No. 573,905
1 Claim. (Cl. 45—11)



The combination with a table including side rails, a top and a swinging leg, of a brace strap for the leg in pivotal union with one of the side rails, the strap having a transverse keeper recess therein adjacent to its outer end, and a struck-up longitudinally extending stop rib extending from the outer end of the brace strap to the recess, a flanged bracket pivotally connected with the leg slidably receiving the strap, a latch lug formed on the bracket beyond the pivot point thereof extending upwardly from the face of the bracket for engagement in the keeper recess when the leg is in its supporting position and to be disengaged therefrom by outward pressure of the strap when it is desired to fold the leg inward, the rib forming an abutment for the lug, and a confining ear carried by the bracket disposed in spaced parallel relation to the face of the bracket and partly overhanging said lug to insure frictional engagement of the strap with said lug.

1,923,418
HYDRAULIC LIFT
Cyrus J. Bristol, Des Moines, Iowa, assignor to Globe Machinery & Supply Company, Des Moines, Iowa, a Corporation of Iowa
Application December 15, 1930
Serial No. 502,437
10 Claims. (Cl. 254—93)

9. A hydraulic lift comprising a vertical cylinder, a piston slidably mounted in said cylinder, a hollow lift rod carried by said piston, said piston and lift rod having an annular space between the lift rod and said cylinder near the lower end of said lift rod, an opening connecting the inner and outer surfaces of said lift rod, located above said piston, whereby a chamber will be formed below said opening and within said lift rod, an overflow pipe carried by said piston, and means for closing the lower end of said overflow pipe



when pressure is applied to the lower end of said piston.

1,923,419
PREPARATION OF TRICHLOROBENZENE
Edgar C. Britton, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan
Application March 16, 1932. Serial No. 599,182
5 Claims. (Cl. 260—161)

1. A process for preparing trichlorobenzene from a mixture of ortho- and para- dichlorobenzene wherein the ortho- predominates in a ratio of more than 3 parts of ortho- to 1 part of para- which comprises partially chlorinating in the presence of a catalyst the mixture whereby up to 50 per cent of the total dichlorobenzene is converted to 1.2.3- and 1.2.4- trichlorobenzene, distilling the partially chlorinated mixture to separate the unreacted dichlorobenzene from the trichlorobenzene, and recovering para- dichlorobenzene from said unreacted dichlorobenzine.

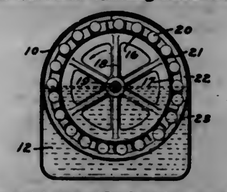
1,923,420
HEAT INSULATION MATERIAL
Ira H. Derby, Indianapolis, Ind., assignor to Peter C. Reilly, Indianapolis, Ind.
No Drawing. Application December 16, 1929
Serial No. 414,582
12 Claims. (Cl. 106—18)

1. A refractory heat insulating medium comprising a compacted body of granular non-flocculent carbon black particles of thermal decomposition possessing the distinguishing characteristics that at high temperatures it gases relatively little, and its reactivity with carbonic acid at 1000° C. is substantially less than that of natural or artificial graphite.

1,923,421
PROCESS OF HEAT TREATING SUBSTANCES
Frank D. Chapman, Berlin, Wis.
Application January 19, 1931. Serial No. 509,735
5 Claims. (Cl. 99—8)

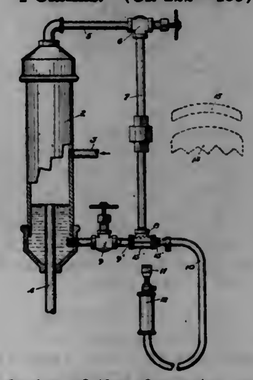
1. The process of heat treating edible substance, which comprises, transporting successive hermetically sealed batches of the substance through a liquid having a predetermined density and a lower specific heat than that of pure water,

utilizing said density to control the degree of agitation of the batches during said transportation,



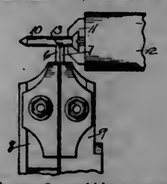
and utilizing said specific heat to control the rate of heat transfer.

1,923,422
DEVICE FOR CONTROLLING THE WETNESS OF STEAM
Ray A. Conley, Los Angeles, and Claude Jordan, Culver City, Calif.
Application March 25, 1932. Serial No. 601,150
4 Claims. (Cl. 122—459)



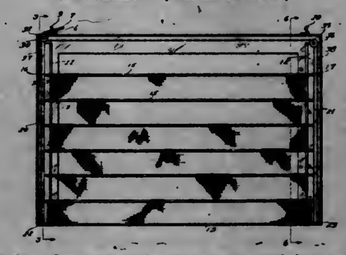
1. In a device of the character referred to, a body forming a reservoir, a steam supply pipe connected therewith, a steam outlet pipe from the top of said reservoir for steam, a water outlet pipe connected with the lower end of said reservoir for condensation, said water outlet pipe being connected to said steam outlet pipe with a valve interposed therebetween, and means for discharging said condensation into said steam outlet pipe for mixture therewith for producing wet steam.

1,923,423
MACHINE FOR CUTTING SCREW THREADS
Reuben S. Crosby and Frank E. Newton, Hartford, Conn., assignors to The Asa S. Cook Company, Hartford, Conn., a Corporation of Connecticut
Application April 9, 1930. Serial No. 442,820
2 Claims. (Cl. 10—101)



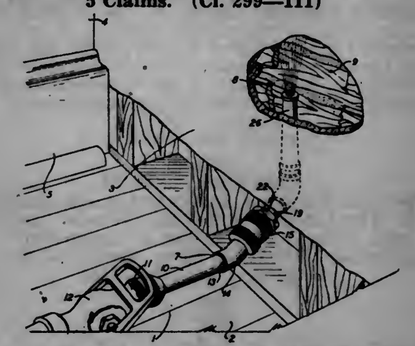
1. A screw thread cutting machine including rotatably mounted means for holding a blank, and a pair of cutting tools each separately mounted and operated and having thread cutting ends located substantially in line lengthwise of said blank in adjacent portions of the thread groove, one of said tools being formed to remove the metal on one side of the said groove and the other of said tools being formed and operating simultaneously with the first tool to remove the metal left by said first tool on the opposite side of the thread groove to complete the groove widthwise thereof.

1,923,424
FIREPLACE GUARD SCREEN
William O. Dailey, Portland, Oreg.
Application March 5, 1932. Serial No. 596,933
8 Claims. (Cl. 126—202)



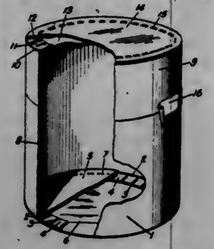
1. A fireplace guard screen comprising a frame, uniformly stepped racks disposed at each side of the frame, said racks being disposed in spaced relationship with the sides of the frame to form wells therebetween, an elevator slidably disposed in each of the wells, said elevators having a plurality of uniformly spaced grooves directly aligned with the steps in the racks and with the grooves in the other of the elevators, a plurality of screen elements normally disposed upon the stepped racks, and raising and lowering means secured to the elevators for simultaneously moving said elevators in the same direction, said elevators upon vertical movement contacting the said screen elements to successively either raise or lower them.

1,923,425
ADJUSTABLE NOZZLE
Gerald H. Diederich, Kansas City, Kans.
Application July 28, 1932. Serial No. 625,372
5 Claims. (Cl. 299—111)



5. A device of the character described including a shank, a forty-five degree elbow in fixed relation to the shank, a nozzle tip, a forty-five degree elbow in fixed relation to the tip, a socket member secured to one elbow, a straight tubular section secured to the other elbow and adapted to seat in the socket member, and means for swivelly connecting the tubular section and socket member.

1,923,426
CONTAINER STRUCTURE
Hans A. Eggers, Van Wert, Ohio
Application July 7, 1931. Serial No. 549,229
2 Claims. (Cl. 229—4.5)



1. A container structure made of fiber board or similar material comprising a cylindrical bottom portion having an inwardly extending integral annular flange on one end thereof comprising an unbroken shelf and a series of tabs of maximum width disposed in the same plane, a disk of fiber board or similar material disposed within said bottom portion and secured to said flange, an upstanding cylindrical body portion disposed within said bottom portion and having vertical support from that portion of the disk which rests upon the unbroken shelf of said inwardly extending flange, and a closure of like structure as said bottom portion which fits over the upper end of said body portion and has its base in direct contact therewith.

1,923,427
PROCESS OF PREPARING WHEY CONCENTRATE
Elmer E. Eldredge, Wilmette, Ill., assignor, by mesne assignments, to Kraft-Phenix Cheese Corporation, a Corporation of Delaware
No Drawing. Application February 13, 1929
Serial No. 339,745
3 Claims. (Cl. 99—11)

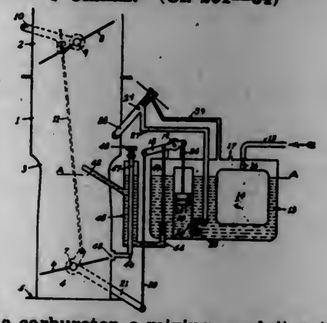
3. The improved process of preparing whey concentrate which consists in evaporating the whey and converting the same into a comminuted solid containing the sugar in a substantially anhydrous condition, then rapidly mixing with the material sufficient water to recrystallize the sugar, then permitting the material to stand a sufficient length of time to recrystallize the sugar and thereby form a cake, while at the same time preventing overheating of the material and then converting the cake into the form of a powder.

1,923,428
ELECTRIC SWITCH
Henry O. Engstrom, Bridgeport, Conn., assignor to The Bridgeport Switch Company, Bridgeport, Conn., a Corporation of Connecticut
Application January 8, 1932. Serial No. 585,437
4 Claims. (Cl. 200—172)



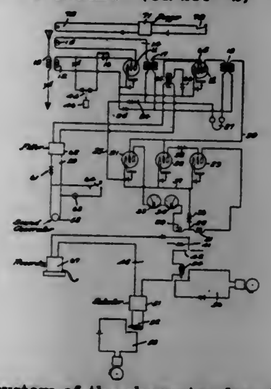
4. In an operating handle for a toggle switch, an outer body member of relatively frangible insulating material, and a reinforcing insulating insert embedded in the interior of said body member, said insert having a non-metallic connection with the toggle mechanism of said switch, said insert being composed of strong fibrous material.

1,923,429
CARBURETOR
George R. Ericson, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a Corporation of Delaware
Application January 7, 1933. Serial No. 650,607
9 Claims. (Cl. 261—34)



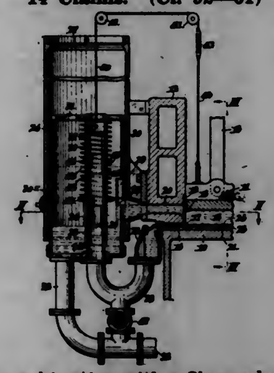
1. In a carburetor, a mixing conduit, a throttle valve at the outlet of said mixing conduit, a venturi anterior to said throttle, an accelerating pump discharging into said mixing conduit anterior to said throttle and said venturi at a point of low suction, a constant level chamber, and a valve controlled passage leading from the upper part of said constant level chamber to the discharge outlet of said pump.

1,923,430
SYSTEM AND APPARATUS FOR ASSISTING NAVIGATION
Walter Nathaniel Fanning, Alameda, Calif.
Application January 21, 1930. Serial No. 422,338
3 Claims. (Cl. 250—2)



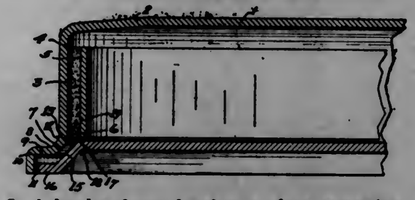
1. In a system of the character described, radio receiving means adapted to be operative continuously, and adapted to reradiate signal energy, selecting means responsive to a conventional distress signal and connected to said radio means, and alarm means connected to said radio means and operative in response to the reception of signal energy of sustained duration from a substantially similar apparatus, said last means being unresponsive to said distress signal and to conventional telegraphic signals.

1,923,431
MOLD FOR FIBER PULP AND THE LIKE
Francis S. Farley, Trenton, N. J., assignor to Daniel Manson Sutherland, Jr., Morrisville, Pa.
Application May 7, 1930. Serial No. 450,539
14 Claims. (Cl. 92—61)



1. The combination with a fiber pulp mold having a water drainage outlet and an air vent outlet, a top depressible to squeeze out the water, and a part movable up and down to open the mold for removal of the formed product and to close it for charging with pulp, of means for controlling said water drainage outlet actuated by the up and down movement of said top, and means for controlling drainage from said air vent outlet actuated by the up and down movement of said part.

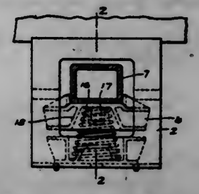
1,923,432
BRAKE DRUM AND APRON
Charles E. Gable, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a Corporation of Ohio
Application August 22, 1930. Serial No. 476,985
7 Claims. (Cl. 188—218)



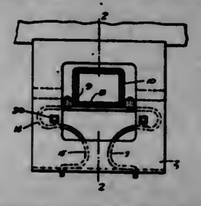
5. A brake drum having a shoe engaging annular portion normal to its outer face, the inner part of the annular portion being deflected radially outward at an angle of substantially 45° to the outer face of the drum and continuing in a radially outwardly extending part substantially parallel to the outer face of the drum to terminate in an axially projecting annular flange substantially parallel to the annular shoe engaging portion.

1,923,433
CUSHIONING AND CENTERING DEVICE FOR RAILWAY CAR COUPLERS
Garth G. Gilpin, Riverside, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware
Application July 6, 1931. Serial No. 548,798
20 Claims. (Cl. 213—21)

20. A cushioning and centering device for a railway car coupler comprising a car part attached to the car, a coupler carrier arranged to move laterally of the car with the coupler, and a yielding means positioned below and supporting the carrier upon the car part, which means yieldingly opposes the vertical and horizontal movements of the carrier so as to return the coupler to normal position.



1,923,434
CUSHIONING AND CENTERING DEVICE FOR RAILWAY CAR COUPLERS
Garth G. Gilpin, Riverside, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware
Application July 6, 1931. Serial No. 548,799
9 Claims. (Cl. 213—21)



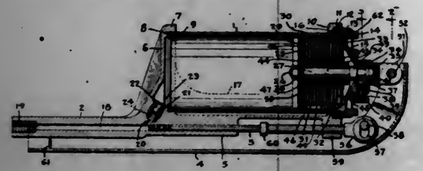
9. A cushioning and centering device for a railway car coupler comprising a car part attached to the car, a railway car coupler, and a bar spring positioned in a single substantially vertical plane between the car part and the coupler with its end portion secured to the car part so that said spring acts vertically and horizontally to return the coupler to normal position.

1,923,435
UPPER BUFFER MECHANISM FOR RAILWAY CARS
Garth G. Gilpin, Riverside, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware
Application December 10, 1931
Serial No. 580,062
14 Claims. (Cl. 105—15)



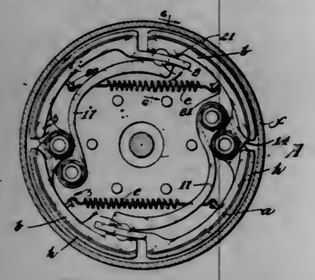
1. In a railway car having an end wall with a spring seat, a diaphragm face plate with a spring seat, the combination of a coil spring positioned between said spring seats, and means to retain the ends of the spring in a predetermined relation to the end wall and face plate, respectively, whereby a movement of said face plate toward said end wall compresses the spring and a lateral movement of said face plate distorts the spring.

1,923,436
FOLDABLE GREASE GUN
Seward W. Hartley, New York, N. Y., assignor, by mesne assignments, to The Lubrication Corporation, South Bend, Ind., a Corporation of Delaware
Application June 14, 1929. Serial No. 370,770
19 Claims. (Cl. 221—47.3)



1. A lubricant gun comprising a supporting frame, a removable lubricant holding barrel, a delivery spout having a passage therethrough and to the barrel, a booster working in said passage, an operating lever for the booster mounted on the barrel, and means whereby the connection between the lever and the barrel can be broken when the barrel is to be removed for filling.

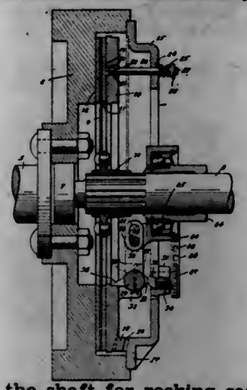
1,923,437
BRAKE
Charles C. Higgins, Riverside, and Harry D. Van Brunt, Los Angeles, Calif.; said Higgins assignor to said Van Brunt
Application April 11, 1928. Serial No. 269,209
15 Claims. (Cl. 188—78)



1. In a brake, two shoes arranged in contiguous end relationship, an actuating means for non-contiguous ends of both the contiguous shoes to cause movement of said ends in opposite directions, and means for joining opposite ends of said shoes, and means for causing opposite and equal movement of said shoes when said first means is utilized.

1,923,438
FRICTION CLUTCH
William F. Hughes, Rockford, Ill., assignor to Rockford Drilling Machine Co., Rockford, Ill., a Corporation of Illinois
Application April 18, 1931. Serial No. 531,126
16 Claims. (Cl. 192—68)

1. In a friction clutch, the combination with a flywheel, serving as the driving element, and a clutch disc, serving as the driven element, of a back plate for the flywheel, a pressure plate guided for movement toward and away from the back plate for disengagement and engagement of the clutch, respectively, a rock shaft disposed between said plates and supported on one of them for oscillation, cams on the ends of said shaft arranged in the turning thereof to ride on abutments provided therefor on the other plate, and manually operable means substantially midway of



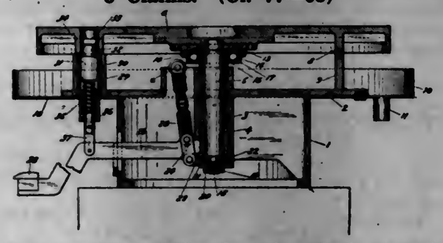
the ends of the shaft for rocking said shaft to positively engage the clutch.

1,923,439
RAZOR
Harold N. Hukill, Inglewood, Calif.
Application December 28, 1931
Serial No. 583,469
10 Claims. (Cl. 30—12)



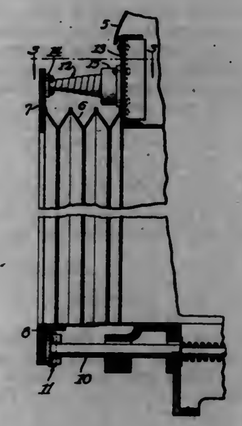
1. In a razor, the combination of: a handle; a head member associated with said handle and including lower, intermediate and upper elements; hinge means connecting said upper and lower elements to said intermediate elements so that they may swing relative thereto; a lower blade disposed between said lower and said intermediate elements, said blade having a cutting edge; and an upper blade disposed between said intermediate element and said upper element, said upper blade having a cutting edge parallel to said cutting edge of said lower blade.

1,923,440
WORKTABLE FOR DRILL PRESSES
Wilson P. Hunt and Rudolph E. Herrstrum, Moline, Ill., assignors to Moline Tool Company, Moline, Ill.
Application June 30, 1930. Serial No. 464,957
3 Claims. (Cl. 77—63)



3. A machine of the class described, comprising a frame, a support vertically movable in said frame, a work table rotatably mounted on said support, and normally resting on said frame, a toggle-joint connection between said frame and said support, a foot-lever connected with said toggle-joint, a plunger in said frame provided with a detent, one or more keepers therefor in said table, a tension spring controlling the action of said plunger, and a connection between said plunger and said lever, the movement of said lever simultaneously withdrawing said detent from engagement with its keeper and actuating said toggle-joint to raise said table.

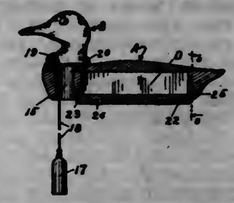
1,923,441
BUFFING DEVICE FOR RAILWAY CAR VESTIBULE DIAPHRAGMS
Peter Kass and George S. Goodwin, Chicago, Ill., assignors to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware
Application August 1, 1930. Serial No. 472,345
17 Claims. (Cl. 105—10)



1. In a car vestibule construction, the combination with the car and, a relatively movable face plate, and an extensible diaphragm extending between and connected to said car end and face plate, of a conical spiral spring interposed between said car end and face plate for yieldingly maintaining said diaphragm expanded, and means for mounting the respective ends of said spring on said car end and said face plate comprising a stud secured to one of said parts for entering the apex coil of said spring, said stud fitting in said apex coil so as to permit relative pivotal movement between the stud-carrying part and the spring about the apex end of said spring, and means for mounting the base end of said spring on the other part comprising a bracket secured to said other part and having a projection for receiving the base coil of said spring.

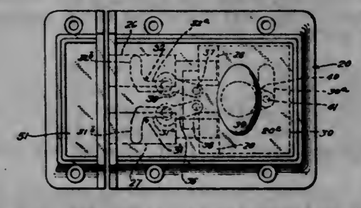
1,923,442
DECOY
Charles F. Kilgore, Minneapolis, Minn.
Application February 23, 1929. Serial No. 342,191
12 Claims. (Cl. 43—3)

1. A decoy comprising a body, a head unit detachably secured to the body, and an anchor member secured to and containable within the head unit, said anchor member being connected



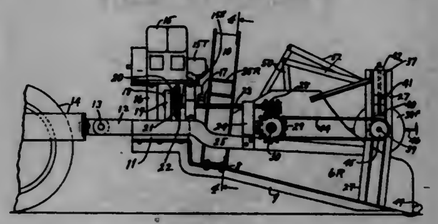
directly to the head unit by a flexible element movable through the body.

1,923,443
LOCK CONSTRUCTION
William T. Kniesner, New York, N. Y., assignor to Francis Keil & Son, Inc., a Corporation of New York
Application November 11, 1929
Serial No. 406,184
19 Claims. (Cl. 70—46)



1. In a construction of the class described, in combination, a casing, a bolt extendable out of said casing and rotatable about an axis extending substantially in the direction of extending movement of said bolt, a pin projecting from said bolt, a member guided by said casing for movement in the direction of extension of said bolt and having a pin protecting therefrom, means for operating said sliding member, a link connecting said slidable member with said bolt and having the pins thereof extending thereinto, and guiding means adapted to permit said link, upon substantial completion of the extension of said bolt, to assume a position such that the line connecting said pins extends substantially at right angles to the line of movement of said sliding member.

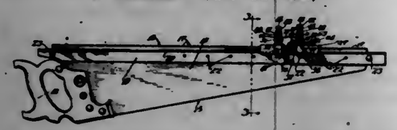
1,923,444
SNOWPLOW
Norman W. La Clair, St. Paul, Minn.
Application January 25, 1932. Serial No. 588,724
3 Claims. (Cl. 37—43)



1. A snow plow comprising a main frame adapted to be pivotally secured to the forward end of a tractor or the like, a snow scoop supported by said frame and flared forwardly to a ground-contacting transverse edge, said scoop provided with integral side guards tapered rear-

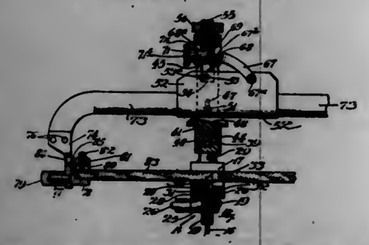
wardly to a restricted outlet normally in elevated position and the scoop bottom extending forward in inclined plane, an upright rotary fan mounted in transverse plane on said frame rearward of and communicating with said outlet, an engine mounted in proximity to said fan and operatively connected therewith to rotate the latter, said rotary fan comprising a fan housing and tangential outlet means therefrom located to permit blowing of snow outwardly and upwardly selectively to right or left with relation to direction of movement of the plow, and a transversely mounted crank shaft operatively connected to the engine and located forward of the scoop outlet and formed with a number of cranks also forward of said outlet, upright snow beaters pivotally secured each intermediate its ends to the crank, a fixed inverted U-shaped frame on the front part of the scoop in transverse upright plane, rocking beams pivotally connected at their front ends to the upper part of said frame and extending rearwardly therefrom in parallel relation to each other, the rear ends of said beams pivotally connected each to the upper end of one of said beater members, the lower ends of said beams adapted, when the crank shaft is rotated, to contact with and move the snow rearwardly on the scoop.

1,923,445
FILING DEVICE
Ludwig Loibl, Chicago, Ill.
Application April 15, 1931. Serial No. 530,353
8 Claims. (Cl. 76—31)



1. The combination with a guide detachably mounted on a saw adjacent the teeth thereof, of a carriage slidably supported on said guide, and means for supporting a file on said carriage whereby said file may be reciprocated transversely of the saw, said means including a pair of posts pivotally mounted for adjustment upon said carriage, channel members pivotally mounted on said posts, a pair of reciprocatory rods adapted to work in said channel members, plates connecting said rods, and a file mounted in said plates.

1,923,446
FILING DEVICE
Ludwig Loibl, Chicago, Ill.
Application April 15, 1931. Serial No. 530,354
6 Claims. (Cl. 76—31)



1. The combination with a longitudinal guide detachably mounted on a saw adjacent the teeth thereof, of a movable guide slidably supported on said guide, a carriage slidably supported on said movable guide, and filing means supported on said movable guide including an adjustable channel guide for securing angular adjustment mounted on said carriage on an axis parallel with the longitudinal axis of the saw a reciprocatory bar adapted to reciprocate in said adjustable channel guide, and a file supported thereby so constructed and arranged as to be reciprocated transversely of the saw.

1,923,447
CONVEYER MECHANISM
Willard A. Marcy, Syracuse, N. Y., assignor to The Lamson Company, Syracuse, N. Y., a Corporation of Massachusetts
Application March 18, 1930. Serial No. 436,740
13 Claims. (Cl. 198—21)



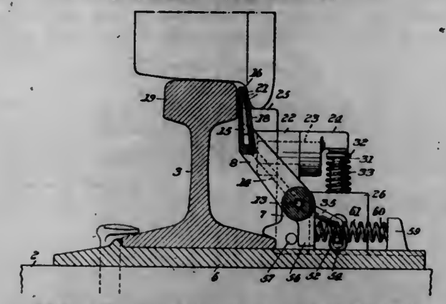
1. The combination with a main conveyer and a branch conveyer by which articles are fed to the main conveyer, of mechanism to prevent feeding of articles by the branch conveyer to the main conveyer whenever articles traveling on the main conveyer are adjacent the outlet of the branch conveyer which mechanism includes means actuated by each article on the main conveyer as it approaches the outlet of the branch conveyor for preventing the feed of articles from the branch conveyer to the main conveyer, and means actuated by each article on the main conveyer after passing the outlet for permitting such feed.

1,923,448
WHIPSTOCK
Archie G. McCoy and Benjamin W. Sunde, Long Beach, Calif., assignors, by mesne assignments, to Blackwell and Sunde Inc., Long Beach, Calif., a Corporation of California
Application October 17, 1930. Serial No. 489,350
15 Claims. (Cl. 255—1)



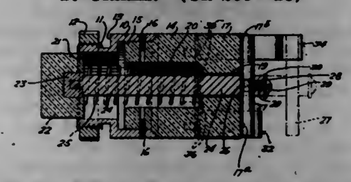
1. In combination, two elements, one a socket adapted to be arranged in a well bore, the other a whipstock, and means for seating the whipstock in a definite rotative position on the socket including a single key on one element to cooperate with a keyway in the other.

1,923,449
LUBRICATOR
Lawrence A. Merk, Pittsburgh, Pa., assignor to Railway Maintenance Corporation, Aspinwall, Pa., a Corporation of Pennsylvania
Application December 29, 1928
Serial No. 329,098
6 Claims. (Cl. 184—3)



1. Means for lubricating car wheel flanges and rails, comprising lubricant applying means adjacent the rail mounted for pivotal movement in a plane extending transversely of the rail and adapted to yieldingly press against the flanges of wheels of a car passing over the rail, the lubricant applying means having an opening for delivering lubricant to lubricate the wheel flanges and gauge side of rail.

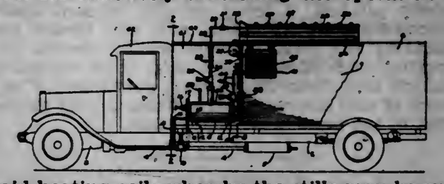
1,923,450
PUSH BUTTON SWITCH CONSTRUCTION
Christian Miller, New York, N. Y., assignor to Edwards and Company, Inc., a Corporation of New York
Application December 16, 1930
Serial No. 502,649
10 Claims. (Cl. 200—16)



10. In push button switch construction, in combination, insulating means supporting a plurality of contact members, a plunger movable relative to said insulating means and having an opening therein through which extends a contact-engaging member recessed intermediate its ends; a screw extending through a portion of said plunger and into the recess of said contact-engaging member, and means for locking said screw to said plunger, said screw being of a length insufficient to clamp said contact-engaging member.

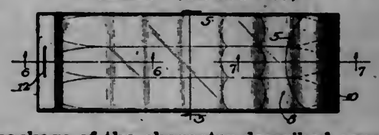
1,923,451
REFRIGERATING APPARATUS
Joseph Miller, Minneapolis, Minn.
Application December 31, 1931
Serial No. 584,122
3 Claims. (Cl. 62—117)

1. A refrigerator truck comprising a frame having an engine mounted thereon and provided with an exhaust pipe, a driver's seat, a body spaced from said seat and having a food storage compartment, a refrigerating apparatus comprising a plurality of stills having ammonia-absorbing liquid therein, a refrigerator coil in said compartment, a condenser, pipes connecting said refrigerator coil and said condenser to said stills whereby they are in circuit therewith, a heating coil in each still connected to the engine exhaust pipe, control means convenient to the driver's seat for selectively controlling the operation of



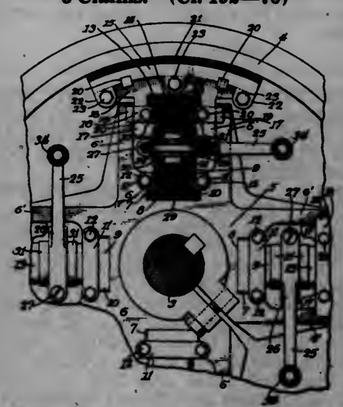
said heating coils whereby the stills may be successively operated to distill the ammonia from the liquid therein and thereby maintain substantially a constant supply for the refrigerator coil, and other control means for selectively controlling fluid circulation between said stills and said refrigerator coil.

1,923,452
PACKAGE
Harry J. Neumiller, Peoria, Ill.
Application March 28, 1931. Serial No. 526,033
1 Claim. (Cl. 206—46)



A package of the character described comprising a substantially elongated flat stiffened member having a base with side flanges terminating short of both ends of the base to provide at one end a foldable and attachable extension and at its opposite end an overlying movable flap, and a transparent enclosure for said member having a folded over and secured end beyond the flap of the member and being interfolded at its opposite end with and secured to the extension end of said member.

1,923,453
CLUTCH
William J. Pearmain, Racine, Wis., assignor to The Twin Disc Clutch Company, Racine, Wis., a Corporation of Wisconsin
Application September 29, 1930
Serial No. 485,150
3 Claims. (Cl. 192—76)



1. In a clutch of the class described including a friction shoe, a spider, radial guides thereon, each

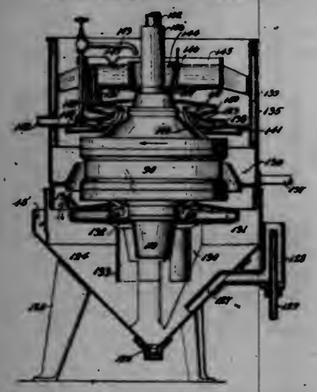
comprising a pair of parallel guide posts, an internally threaded sleeve secured between said guide posts, a second internally threaded sleeve secured to the friction shoe in axial alignment with the first said sleeve, a screw shaft the threads at the respective ends of which are reversely pitched, a lever secured to said shaft intermediate its threaded ends, and means for operating the lever, and detachable means for securing each of said sleeves in their operative position and, upon detachment, permitting of removal of said sleeves and shaft as a unit by movement of the same in axial direction.

1,923,454

METHOD AND APPARATUS FOR CENTRIFUGAL SEPARATION

Albert Peltzer and Albert Peltzer, Jr., Chicago, Ill., assignors to Merco Centrifugal Separator Co. Ltd., San Francisco, Calif., a Corporation of California

Application July 13, 1926. Serial No. 122,146
62 Claims. (Cl. 233—14)



1. The method of separating components of liquids including the step of separating heavier from lighter components by centrifugal action, feeding a liquid into the original liquid to cooperate in the centrifugal action thereon and at a greater velocity than that of the original liquid at its point of separation and in the same direction of flow to impart movement to the heavier components and prevent the formation of eddies, and conducting the lighter components of the original liquid to a point of separate centrifugal separation.

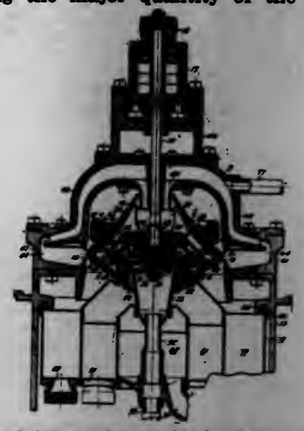
1,923,455

MILL-STARCH TREATMENT AND METHOD

Albert Peltzer and Albert Peltzer, Jr., Palo Alto, Calif., assignors to Merco Centrifugal Separator Co. Ltd., San Francisco, Calif., a Corporation of California

Application April 5, 1932. Serial No. 603,354
5 Claims. (Cl. 127—69)

1. In a method of treating mill starch for effecting separation of starch from gluten, characterized by the use of a centrifuge chamber having orifices for the discharge of a heavier underflow and also having provision for the discharge of a lighter overflow, the steps of continually feeding mill starch to said chamber, permitting an overflow containing starch particles centrifugally separated from the feed to discharge through said nozzles at sufficient velocity to cause a scrubbing action of said particles, causing separated material to continually discharge from the bowl as a lighter overflow, and continually returning the major quantity of the material



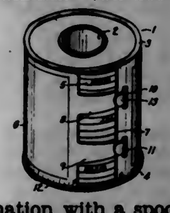
discharged from said nozzles back to said chamber for rescrubbing and reseparation.

1,923,456

PACKAGE FOR STRIP OR LIKE MATERIALS

Jacob R. Price, Kansas City, Mo.

Application June 15, 1931. Serial No. 544,394
4 Claims. (Cl. 206—59)



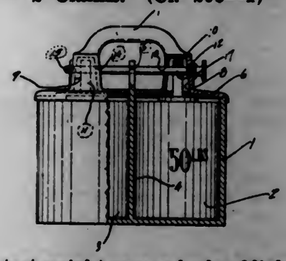
3. In combination with a spool, a wrapper for enclosing a product wound on the spool comprising a rectangular strip having a slot in one end and a tongue on its opposite end adapted to be extended through the slot and bent retractively for securing the wrapper on the spool, said wrapper being comparatively short and the tongue being relatively long to permit contraction of the wrapper for more tightly engaging the product remaining on the spool after a portion is dispensed therefrom.

1,923,457

TEST WEIGHT CASE

Orwell C. Reeves, Toledo, Ohio, assignor to Toledo Scale Manufacturing Company, Toledo, Ohio, a Corporation of New Jersey

Application November 3, 1930. Serial No. 492,962
2 Claims. (Cl. 206—1)



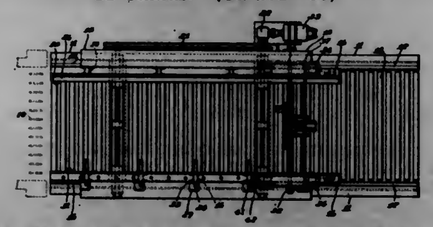
1. In a test weight case, a body of light material for the reception of test weights having loop-like handles, said body having a bottom, walls and a member secured to the bottom and extending above said walls, a cover adapted to rest on said walls, said cover having pockets to receive the loop-like handles of such test weights, aligned openings in walls forming said pockets and said member extending above said walls and a bolt like member adapted to pass through said aligned apertures and through said loop-like handles so that such test weights are suspended from said cover.

1,923,458

SHEET PILER

Emmet C. Reilly and Maurice P. Sieger, Pittsburgh, Pa., assignors to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania

Application December 9, 1931. Serial No. 579,900
11 Claims. (Cl. 271—86)



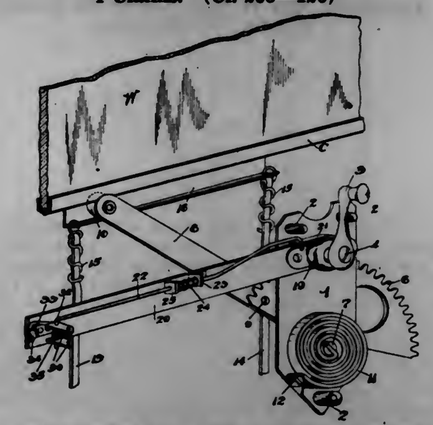
1. The combination with means for delivering sheets edgewise, of means for supporting one side of the sheet during delivery, and a yielding device, disposed at a level lower than that of said first-named means, for engagement by the other side of the sheet upon such other edge being permitted to fall.

1,923,459

WINDOW OPERATOR

Royal N. Riblet, Spokane, Wash.

Application January 12, 1933. Serial No. 651,377
4 Claims. (Cl. 268—126)



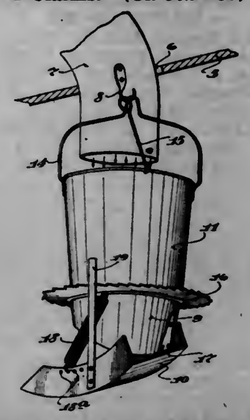
1. The combination with a vertically reciprocable window, a pair of elastic straps connected with the window and placed under tension when the window is raised, operating means for reciprocating the window, and a coiled spring co-operating with said operating means and placed under tension as the window is lowered, of a brake device normally co-acting with the operating means, and means for releasing said brake device to permit automatic lowering of the window.

1,923,460

DISTRIBUTING DEVICE FOR PNEUMATIC ELEVATORS

Charles Sands, Kenyon, Minn.

Application November 2, 1932. Serial No. 640,765
6 Claims. (Cl. 302—60)



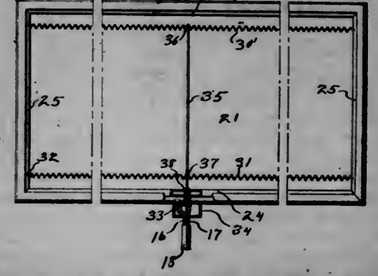
1. In a device of the class described, a hopper, a distributor rotatably mounted at the bottom of said hopper and provided with a yieldingly supported depressible discharge element, combined with means whereby successive depressions of the latter will progressively rotate said distributor.

1,923,461

WINDSHIELD HEATER

Edward A. Small, Franksville, Wis.

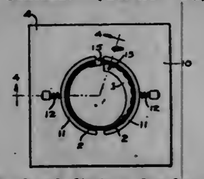
Application October 1, 1931. Serial No. 566,240
2 Claims. (Cl. 219—19)



2. In an electrical heater for windshields of automobiles, an open rectangular frame adapted to be disposed vertically against a windshield, said frame including top and bottom metal rails and connecting side metal rails, all of the rails being provided with a vertically disposed seat, a transparent pane fitted against the seat, means holding the transparent pane against said seat, longitudinally extending heating coils carried by the frame, a receptacle disposed below the bottom rail and in engagement therewith, conductor wires extending into the receptacle, means grounding one of the conductor wires to the bottom rail, a bus bar connecting the resistance coils intermediate their ends together, a sleeve of insulation carried by the bottom rail extending into the receptacle receiving the lower end of the bus bar, the other of said conductor wires being electrically connected with the bus bar, an attaching plate carried by the upper edge of the receptacle and engaging the front face of

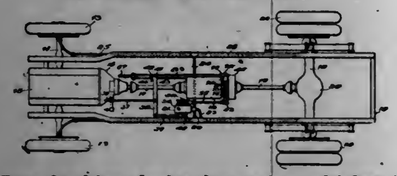
the frame, and a hook formed on the plate clamped between the seat and the transparent panel.

1,923,462
METHOD AND APPARATUS FOR LINING BRAKE SHOES
Willis Gordon Stoner, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a Corporation of Ohio, as trustee for Steeldraulic Brake Corporation, Detroit, Mich., a Corporation of Michigan
Application February 15, 1929, Serial No. 340,249
Renewed June 17, 1933
9 Claims. (Cl. 29—84)



1. The method of lining brake shoes which consists in warming the lining to the state of pliability, placing the lining between the exterior of the shoe and the interior of an annular encompassing part, expanding the shoe and squeezing the then warm and pliable lining between the shoe and said part thereby forming the lining to the exact contour of the shoe.

1,923,463
BRAKE OPERATING DEVICE
John W. Tatter, Chicago, Ill., and Frederick W. Sampson, Dayton, Ohio, assignors to Lewis Differential Company, Chicago, Ill., a Corporation of Illinois.
Application December 23, 1929
Serial No. 416,040
16 Claims. (Cl. 188—152)

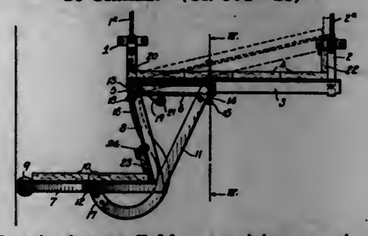


1. In a braking device for motor vehicles, the combination with manually operated brake mechanism therefor, including a lever for actuating said mechanism of a brake drum, a brake shoe operatively related thereto, hand operated means for actuating said brake shoe, an equalizing bar operatively related to said hand operated means and said brake mechanism, and means operatively related to said mechanism and actuated by said brake shoe for augmenting the operation of said brake mechanism.

1,923,464
PROCESS OF MAKING DRY SODIUM ALUMINATE
Glenn H. Wagner, Belleville, Ill., assignor, by mesne assignments, to National Aluminate Corporation, Chicago, Ill., a Corporation of Delaware
No Drawing. Application April 4, 1928
Serial No. 267,469
6 Claims. (Cl. 23—52)

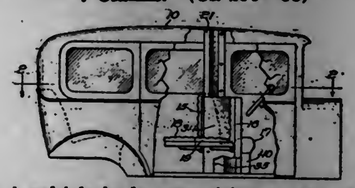
1. The process of making dry sodium aluminate containing less than about 0.1 per cent of water-insoluble impurities comprising heating at an elevated temperature not exceeding about that of the boiling point of the solution a concentrated solution of sodium hydroxide with aluminum hydrate in such an amount as to provide a ratio of alumina to sodium hydroxide in the solution of about 0.9 to 1.1, and congealing the reaction mass.

1,923,465
SWINGING SCAFFOLD
Charles A. Weir, Kansas City, Mo.
Application August 17, 1931. Serial No. 557,449
16 Claims. (Cl. 304—15)



1. A swinging scaffold, comprising a main platform and an auxiliary platform at one side of and lower than the main platform, an outer series of vertical cables supporting the outer edge of the main platform, an inner series of vertical cables in approximately the plane of the inner edge of the main platform, a series of hangers supported from the inner cables and underlying and supporting the auxiliary platform, and brackets underlying both platforms and pivotally connected to the main platform.

1,923,466
VEHICLE BODY
Starling A. West, Detroit, Mich., assignor to The Murray Corporation of America, a Corporation of Delaware
Application May 24, 1929. Serial No. 365,624
7 Claims. (Cl. 296—63)

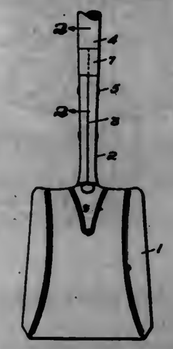


1. A vehicle body comprising a rear passenger compartment, a forward operator's compartment, a staggered partition separating said compartments, the rearmost staggered portion having an opening in the lower portion thereof, an operator's seat positioned in said opening, means for moving said seat forwardly and rearwardly relative to said opening, a passenger seat carried on the rear of said operator's seat, and a passenger seat supported on the rear side of the foremost staggered portion of the partition.

1,923,467
SHOVEL AND SIMILAR STRUCTURE
George C. Wharton, Parkersburg, W. Va., assignor to Ames Baldwin Wyoming Shovel Co., Parkersburg, W. Va., a Corporation of Delaware
Application August 15, 1932. Serial No. 628,823
3 Claims. (Cl. 306—31)

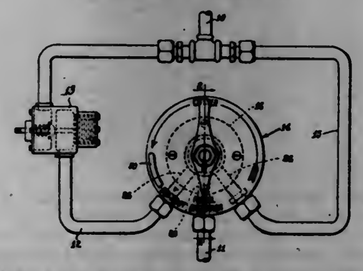
3. An implement of the class described comprising a working portion having a hollow socket

extending therefrom, a permanently fitted wooden handle extending into said socket and bottoming therein by compression of the wooden end portion of the handle against the wall of the socket for a substantial distance, a retaining rivet through the socket and handle, and means



for reinforcing the connection at the outer end of of the socket comprising a relatively short ferrule having an unbroken annular portion tightly embracing the handle immediately outward of the end of the socket and an extension therefrom wedged between the wood and the rear portion of the socket wall.

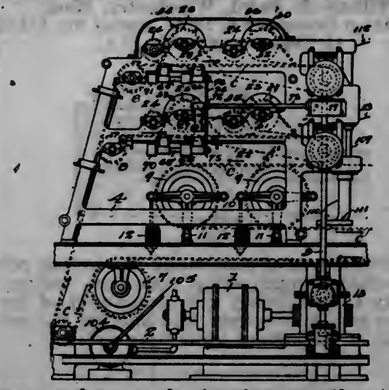
1,923,468
AUXILIARY TEMPERATURE REGULATOR FOR THERMOSTATICALLY CONTROLLED GAS-FIRED REFRIGERATORS
James A. Whittington, Chicago, Ill., assignor to The Peoples Gas Light and Coke Company, Chicago, Ill., a Corporation of Illinois
Application September 5, 1929. Serial No. 390,506
12 Claims. (Cl. 62—5)



1. In a gas-fired refrigerator, in combination, a gas supply line, a thermostatically controlled valve in said line for controlling the flow of gas therethrough, an auxiliary regulator interposed in said line in front of said valve, and a by-pass line across said valve, said regulator being adjustable to control said by-pass line and to cut off the supply of gas to said valve.

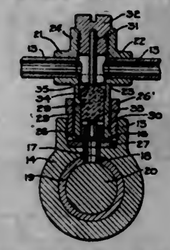
1,923,469
TILE MEASURING AND SORTING MECHANISM
Frank B. Yingling, Hamilton, Ohio, assignor to Ceramic Machinery Co., Hamilton, Ohio
Application March 28, 1929. Serial No. 350,718
7 Claims. (Cl. 209—89)

1. The combination with a conveyer, of a rotary wheel, measuring devices carried by the wheel adapted to remove tile from the conveyer, means for returning standard tile to the con-



veyer, and means for turning over the standard tile on the conveyer.

1,923,470
CENTRALIZED LUBRICATING SYSTEM
Oscar U. Zerk, Chicago, Ill., assignor to Alemite Corporation, Chicago, Ill., a Corporation of Delaware
Application November 9, 1929. Serial No. 406,110
50 Claims. (Cl. 184—7)

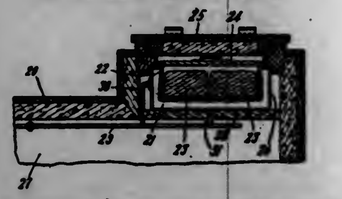


1. In a lubricating system, a lubricant conduit, a compressible valve element filling and sealing the conduit by resiliently engaging the wall thereof, and adapted to be compressed to smaller cross-sectional area than that of the conduit to unseal the conduit by pressure of lubricant in the conduit.

1,923,471
MANUFACTURE OF STEEL
Christian Arnold, Cologne-Kalk, Germany
No Drawing. Application February 11, 1930, Serial No. 427,642, and in Germany January 15, 1926
3 Claims. (Cl. 75—45)

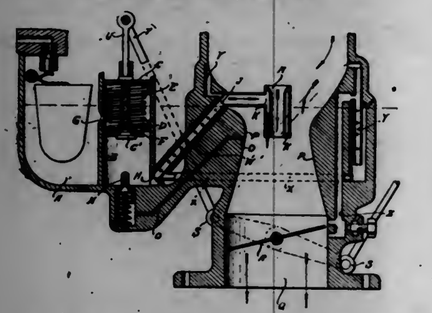
1. The process for production of high speed steel alloys containing substantial amounts of tungsten, which comprises treating a molten ferrous bath in an electric furnace with lime-fluorine-containing slag to remove phosphorus and sulphur, removing said purifying, slagging material and thereby leaving a relatively pure ferrous bath, and then making a final slag on this bath consisting of calcium silicate, magnesium silicate and water-glass in the proportion of about 1 to 3%, and alloying in the presence of this final slag with tungsten and at least one of the following elements from the group comprising chromium, molybdenum and vanadium to produce the aforesaid high speed steel.

1,923,472
REFRIGERATING APPARATUS
William F. Baird, Winchester, Mass.
Application December 6, 1929. Serial No. 412,247
11 Claims. (Cl. 62—91.5)



1. The method of controlling the boiling point of a volatile liquid which comprises sealing a quantity of said liquid with a quantity of inert gas in a gas-tight system, and altering the cubic capacity of the system while thus sealed.

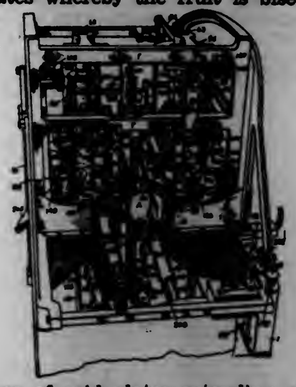
1,923,473
DOWNDRAFT CARBURETOR
Bert Beard, Detroit, Mich., assignor to George M. Holley, Detroit, Mich.
Application July 12, 1930. Serial No. 467,494
Renewed November 9, 1932
8 Claims. (Cl. 261—34)



1. In a carburetor having an air entrance, a mixture outlet, a throttle valve therein, a mixture chamber intermediate the throttle and the air entrance, a constant level fuel supply chamber, an accelerating pump fed therefrom, a piston in said pump, means interconnecting said piston with said throttle, an outlet from said pump discharging into said mixing chamber said outlet being vented to the atmosphere at a point above the level in said supply chamber, a second outlet from said pump discharging into said mixture chamber at a point below the level of said fuel supply, valve means engaging with said pump controlling said second fuel outlet whereby said second fuel outlet is only in operation when the throttle is substantially wide open.

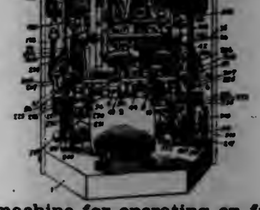
1,923,474
FRUIT PITTING MACHINE
Joseph P. Bem, Fresno, Calif., assignor to Pacific Pitting Machine Company, Inc., Fresno, Calif., a Corporation of California
Application November 5, 1929. Serial No. 404,900
57 Claims. (Cl. 146—28)

2. In a machine for operating on fruit, a saw, edgewise aligned guide plates along which the fruit is slidable arranged in pairs in confronting relation with a crack intermediate the confronting faces of the plates in which said saw is positioned, and means for causing relative movement between the saw and the fruit on said guide plates whereby the fruit is bisected, the



outer faces of said plates extending past both sides of the saw.

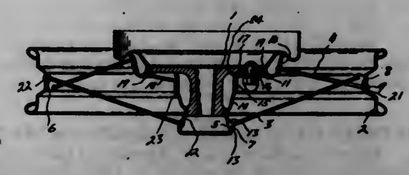
1,923,475
FRUIT PITTER
Joseph P. Bem, Oakland, Calif., assignor to Pacific Pitting Machine Company Inc., Fresno, Calif., a Corporation of California
Application July 21, 1930. Serial No. 469,380
34 Claims. (Cl. 146—28)



1. In a machine for operating on fruit, a turret for supporting the fruit provided each with a plurality of vertically disposed flat fruit-receiving sides, means for clamping a half fruit against the inner face of each of said sides within the figure inscribed by said sides, means revolvably supporting said turret from above only, and the bottom of said turret being open so as to permit the fruit to be dropped therethrough.

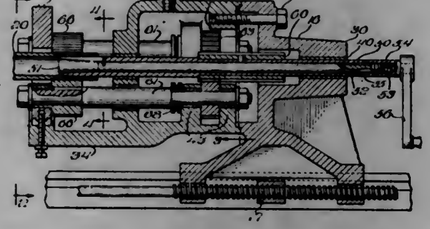
1,923,476
METHOD OF FORMING SUSPENSION WIRE WHEELS
William N. Booth, Detroit, Mich., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a Corporation of New York
Application November 3, 1928, Serial No. 317,100
Renewed January 12, 1931
9 Claims. (Cl. 29—159.02)

1. The method of forming a suspension wire wheel which includes forming a sectional hub member and a rim member, forming annular shoulder engaging portions upon the hub member sections and rim member, forming spokes with load carrying and positioning shoulders facing in the same direction and at fixed distances from each other for engaging the annular shoulder engaging portions of the hub and rim members, assembling the spokes with the hub member sections and rim member by a movement of the spokes in one direction to engage the shoulders of the spokes with the annular shoulder en-



gaging portions of the hub and rim members and thereby concentrically locate the hub member sections and rim member, securing the spokes to the one of the hub and rim members with which the positioning shoulders are engaged to maintain such engagement and to carry the load, relatively moving the hub member sections to tension the spokes and holding the spokes in a relative position where the spokes are maintained under tension.

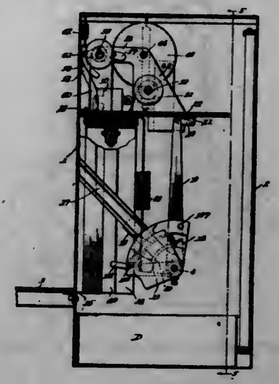
1,923,477
MACHINE FOR SERRATING TUBES AND THE LIKE
Christopher F. Coda, Detroit, Mich.
Application February 27, 1929. Serial No. 343,046
10 Claims. (Cl. 30—5.1)



6. A device for machining a tubular work piece including, in combination, means for engaging and driving one end of said work piece, an expanding element engaging the inner surface of the other end of said work piece, a rotatable tool, and driving means for said tool actuatably connected to said expanding element.

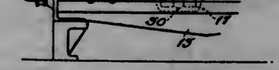
1,923,478
VENDING MACHINE
Joseph F. Drummond, Norfolk, Va.
Application September 22, 1930
Serial No. 483,694
13 Claims. (Cl. 101—318)

1. In a vending machine, the combination of a casing, a receptacle for cards, an operating shaft, a card printing mechanism, a card ejector, an elevator within said receptacle, means in operative connection with said shaft to actuate said printing mechanism, means in operative connection with said shaft to actuate said ejector, coin controlled means to position the parts for opera-



tion, and means to exert an upward pull on said elevator.

1,923,479
PULP SCREENING APPARATUS
Clarence Fancher, Hudson Falls, N. Y.
Application March 18, 1931. Serial No. 523,637
24 Claims. (Cl. 92—32)



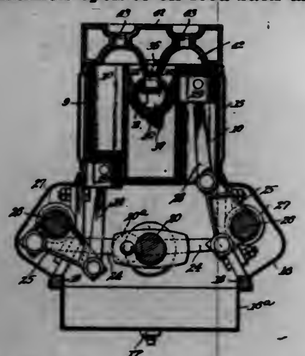
1. In a pulp screening apparatus, a roller shoe for engagement with a cam comprising a pair of spaced rollers, and a shaft connecting the rollers.

21. A device of the character described comprising a pair of spaced rollers, a pair of spaced rotatable cams engaging said rollers, a supply of lubricating liquid arranged adjacent said cams, and means arranged between said cams for splashing the lubricating liquid onto the rollers.

1,923,480
INTERNAL COMBUSTION ENGINE
Allen Miller Fish, Joliet, Ill.
Application June 14, 1930. Serial No. 461,243
9 Claims. (Cl. 123—190)

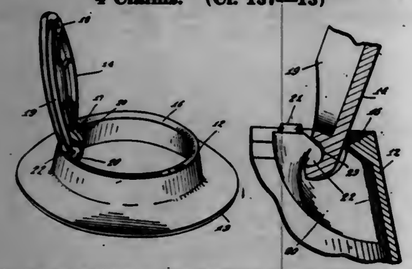
1. In an internal combustion engine, a combined fuel admission and exhaust controlling valve for the cylinders arranged in rows on opposite sides of a center plane; said valve being located between and below the top ends or combustion spaces of the cylinders in parallel relation thereto and to the crankshaft therebelow and comprising a rotatably driven sleeveless body of cylindrical form fitting a bore in the engine casing and having indentations or recesses in its sides alternately according to predetermined timing order opening the intake and exhaust ports of the cylinders to common fuel supply and ex-

haust passages leading to said bore, and said bore having channels open to oil feed back-and-forth



longitudinally with backing to a cooling water space.

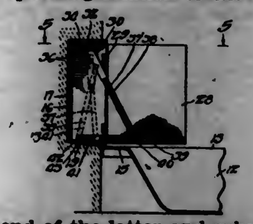
1,923,481
METER BOX COVER
John L. Ford, Wabash, Ind., assignor to The Ford Meter Box Company, Wabash, Ind., a Corporation of Indiana
Application June 5, 1931. Serial No. 542,250
4 Claims. (Cl. 137—13)



1. In a casing, a top having a circular opening in a generally horizontal plane, a removable cover for said opening, said top being provided around said opening with a circumferential seat for said cover, a pair of fingers extending into said opening from the rear of said top below said seat, the inner ends of said fingers being disposed adjacent the lower surface of said cover and spaced inwardly from said seat, the upper surfaces of said fingers, between the finger-ends and the seat, being depressed below the cover-portions above them to permit the cover to be moved forwardly from seated position and to provide clearance for the descending rear edge of the cover as the cover, after being moved forwardly from seated position, is swung upwardly about the finger-ends as pivots.

1,923,482
BATHROOM FIXTURE
Albert Frankenstein, Chicago, Ill.
Application February 28, 1931. Serial No. 519,192
1 Claim. (Cl. 155—36.5)

A bath room fixture comprising a cabinet adapted for application to the wall of a bath room adjacent one end of the bath tub, a seat member having a hinged connection with the cabinet substantially in the plane of the top edge of the tub, and foldable hangers having terminal pivotal connections with the seat at opposite sides thereof and adjacent its front edge, the remaining terminals of the hangers having pivotal mountings within the cabinet, whereby the seat may be swung up into the cabinet or extended into a position in spanning relation to the sides of the



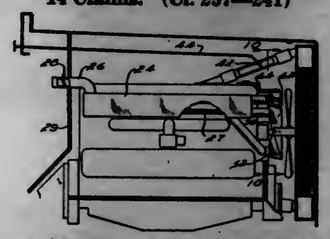
tub at one end of the latter and substantially in the plane of the upper edge of the same.

1,923,483
METHOD OF MAKING AN ARTIST'S MAT
Arthur B. Glenn, Los Angeles, Calif.
Original application December 7, 1927, Serial No. 238,410. Divided and this application April 2, 1930. Serial No. 441,936
3 Claims. (Cl. 101—401.1)



1. The method which consists in laying a paste of mineral earth on the upper face of a flat backing sheet of paper board, drying the paste thereafter, jogging the backing sheet to condense the paste, removing the upper portion of the dried paste to form a substantially flat face and leave a relatively thin layer of relatively dense material on the backing sheet, etching the face of the backing sheet to form a matrix, and forming a stereotype in type metal directly from the matrix.

1,923,484
AUTOMOBILE HEATER
Fred B. Hanchett, Jr., Royal Oak, Mich.
Application October 30, 1930. Serial No. 492,197
14 Claims. (Cl. 257—241)



1. In combination with an automobile heater of the type which receives a supply of air from an automobile fan, of an air-receiving member comprising a substantially rectangularly shaped box-like structure positioned directly behind the automobile fan, said structure being provided with an open side of relatively great area disposed parallel to the plane of rotation of the fan and an open end of relatively small area disposed substantially normally to the plane of rotation of the fan and in a plane passing through the axis of rotation of the fan.

1,923,485
ANTIHALATION LAYER AND HALATION-PROOF PHOTOGRAPHIC MATERIAL
Konrad Hebbel, Dessau-in-Anhalt, Germany, assignor to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York
Application July 5, 1928, Serial No. 290,688, and in Germany July 16, 1927
6 Claims. (Cl. 95—3)

1. Halation proof photographic materials comprising a layer of light sensitive silver halid emul-

sion and a laminated support containing distributed in at least one of its layers a plurality of dyes, at least one of the absorption maxima of



at least one of said dyes corresponding to at least one of the absorption minima of at least one of the other dyes, and at least one of the said dyes being removable in the developing baths.

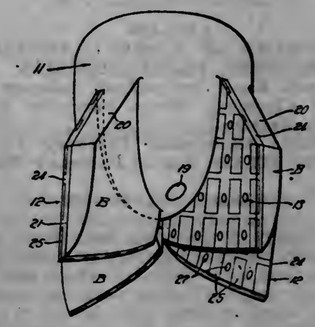
1,923,486
CORE DRILL
John H. Howard, Huntington Park, Calif., assignor to Globe Oil Tools Company, Los Nietos, Calif., a Corporation of California
Application May 18, 1931. Serial No. 538,211
8 Claims. (Cl. 255—72)



1. A well tool of the character described including, an outer barrel, a bit head detachably mounted on the lower end of the barrel having cutting parts for making an annular cut in the formation, a core barrel in the outer barrel movable longitudinally relative to the outer barrel, an annular body on the core barrel projecting downwardly below the lower end of the bit head, cutting blades on the body projecting downwardly below the said cutting parts and projecting outwardly between the said cutting parts, there being an annular fluid passage between the core barrel and body and the outer barrel discharging around the projecting end of the body, and a lug on the body cooperating with a vertically elongate socket in the bit head to limit longitudinal movement of the core barrel and body in both directions.

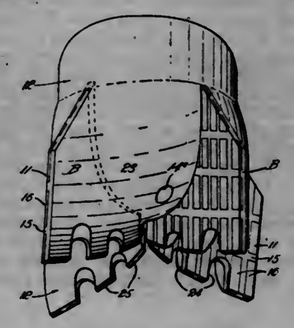
1,923,487
WELL DRILLING BIT
John H. Howard, Huntington Park, and Alfred C. Catland, Alhambra, Calif., assignors to Globe Oil Tools Company, Los Nietos, Calif., a Corporation of California
Application October 5, 1931. Serial No. 566,911
2 Claims. (Cl. 255—61)

1. A well drilling tool including a body, a projecting rib on the body, relatively soft material cast on the body and having a projecting blade, the face of said blade being in the same plane as the forward face of the rib, there being a slot in the material at the forward face of the rib, a plate of relatively hard material arranged against the face of the blade and the forward face of the



rib and extending into the slot to engage the body, and means for attaching the plate to the blade.

1,923,488
WELL BIT
John H. Howard, Huntington Park, and Alfred C. Catland, Alhambra, Calif., assignors to Globe Oil Tools Company, Los Nietos, Calif., a Corporation of California
Application October 5, 1931. Serial No. 566,912
9 Claims. (Cl. 255—61)



1. A well drilling tool including, a body, a member of relatively hard material attached directly to the body, bodies of hard cutting material embedded in the member, and a layer of material having relatively low resistance to abrasion encasing the body and intimately adhering to the body and the rear side of said member.

1,923,489
SYNTHESIS OF UREA
Herbert J. Krase, Clarendon, Va., and Harry C. Hetherington, Washington, D. C.
No Drawing. Application June 27, 1928
Serial No. 288,796
4 Claims. (Cl. 260—125)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A method for producing yields of urea in excess of 43% based on the ammonia combined with the carbon dioxide, which comprises heating carbon dioxide compounds of ammonia with an

excess of from 15% to 300% of ammonia to a temperature between 120° and 200° C., and in the substantial absence of inert gas.

1,923,490

MANUFACTURE OF A NEW CRYSTALLIZED PRODUCT FROM DIGITALIS

Walter Kreis, Basel, Switzerland, assignor to the firm of Chemical Works Formerly Sandoz, Basel, Switzerland

No Drawing. Application February 19, 1931, Serial No. 517,125, and in Germany March 1, 1930

5 Claims. (Cl. 87—28)

5. The crystallized cardio-active product from digitalis, which in dry state constitutes a pure white product crystallizing from methanol in form of uniform long, thin, colorless prisms and which on repeated recrystallization does not change its properties, which crystals, when heated in a capillar tube, begin to sinter at 225° C. and melt under decomposition at 245—248° C., one part of which is soluble at ordinary temperature in about 20 parts of methyl alcohol, in about 300 parts of chloroform and in about 10,000 parts of water and nearly insoluble in ether, and which possesses in a 4% solution of diethyleneoxide a rotation power of

$$\left[\alpha\right]_D^{20} = +24-25°$$

and which contains 59, 2—60,8% of carbon and 7,9—8,3% of hydrogen and yields by the Keller's color reaction in the upper part of the separation surface of the acids a bluish-green coloration, while in concentrated sulphuric acid there appears a red-brown shade, which is composed of 1 molecule of aglucone, 3 molecules of digitoxose, 1 molecule of glucose and 1 molecule of acetic acid and contains therefore on each molecule of aglucone 4 molecules of hexose combined therewith, whereas the known crystallized digitalis glucosides contain only 3 molecules of hexose on each molecule of aglucone, which gives on careful hydrolysis with dilute mineral acids about 38% of a sugar-free product (aglucone) composed of a mixture of three crystallized aglucones, namely of digitoxigenin, gitoxigenin and digoxigenin, and as sugar-component about 30% of digitoxose and about 32% of a well crystallized, until now unknown disaccharide $C_{12}H_{22}O_8$ having reductive properties and which further contains 6% of acetic acid.

1,923,491

PROCESS FOR THE PREPARATION OF NEW CRYSTALLIZED GLUCOSIDES FROM DIGITALIS

Walter Kreis, Basel, Switzerland, assignor to firm: Chemical Works formerly Sandoz, Basel, Switzerland

No Drawing. Application August 22, 1931, Serial No. 558,834, and in Germany April 13, 1931

4 Claims. (Cl. 87—28)

1. A process for the preparation of new crystallized cardioactive glucosides from digitalis lanata comprising the steps of dissolving an isomorphic crystallizing mixture of glucosides from digitalis lanata in an organic solvent, nonmiscible with water and containing an organic solvent miscible with water, shaking the solution thus obtained by means of water, separating the layers formed and repeating these operations with each of the layers until the properties of the glucosides contained therein do no more change and give a distinct coloration by Keller's reaction.

1,923,492

PRINTING MACHINE

Joseph Krell, Berlin-Zehlendorf, Germany

Application January 18, 1932, Serial No. 586,291, and in Germany January 23, 1931

4 Claims. (Cl. 101—65)



1. A printing machine comprising a rocking printing arm, means for actuating said arm, a paper holder, means for feeding said paper holder longitudinally and transversely, a feed-controlling member on said printing arm, means for operating said member at each ascent of said printing arm, a rocking lever operatively connected to said feeding means, and a connection between said member and said rocking lever which is adapted to rock said lever only during the ascent of said printing arm.

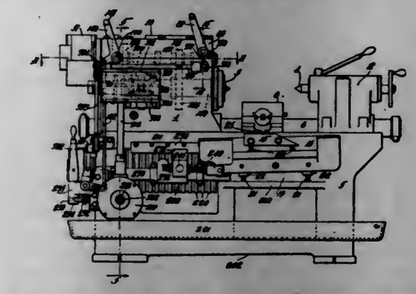
1,923,493

LATHE

John E. Lovely, Springfield, Vt., assignor to Jones & Lamson Machine Company, Springfield, Vt., a Corporation of Vermont

Application March 28, 1930. Serial No. 439,625

27 Claims. (Cl. 82—2)



1. A machine of the class described comprising a frame having a closed bottom wall end portions upstanding therefrom, at least one of said end portions including a chamber having end walls, spaced front and back walls connecting said end portions and defining therewith a chip space, said chip space having a perforate base spaced above said bottom wall to retain chips while permitting coolant to pass to said bottom wall, means for holding work and a tool in operative relation above said chip space, and cam means contained in said chamber and closed off by one of said end walls from said chip space for controlling the relative positions of said tools and the work.

18. A machine of the class described comprising a frame having a headstock, a pair of axially movable and rockable tool bars, tool carriers on said bars for supporting tools in operative relation to work held to said headstock, cam means for controlling the axial and angular positions of the first of said bars, a slide on the second bar, cam means for moving said slide, connections from said slide to the said first bar to control the axial position of said first bar by the position of said slide, and means controlled by the angular position of said second bar for maintaining the first bar in a fixed angular position during a portion of its axial movement, and for changing the angular position of said first bar during another portion of its axial movement.

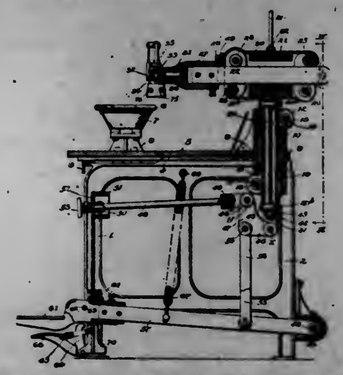
1,923,494

PRESS

Merle Leroy Manchester, Syracuse, N. Y., assignor to United States Hoffman Machinery Corporation, New York, N. Y., a Corporation of Delaware

Application March 14, 1932. Serial No. 598,804

22 Claims. (Cl. 68—9)



1. In an ironing machine, the combination of a buck; an iron; an arm to which the iron is attached; a head through which the arm is freely movable; a vertically movable support for said head; and means for raising and lowering said support, said means comprising a bell crank having one arm connected to the support aforesaid, means pivotally attached to the bell crank adjacent its angle to draw the crank downwardly, and means attached to a fixed portion of the machine connected to the second arm of the bell crank to vary the angular position of the same about its pivotal attachment aforesaid.

1,923,495

PROCESS FOR OBTAINING LUSTERLESS ARTIFICIAL SILKS

Alexander Theodorovitch Maximoff, Milan, Italy, assignor to "Chatillon" Societa Anonima Italiana per la Seta Artificiale, Milan, Italy

No Drawing. Application May 21, 1929, Serial No. 364,954, and in Italy January 8, 1929

1 Claim. (Cl. 106—40)

Process for manufacturing artificial silks with reduced luster, characterized in that to the spinning solutions milk is added in variable quantities ranging between 2 and 10% according to the degree of delustration desired, and this mixture is then spun by one of the usual methods.

1,923,496

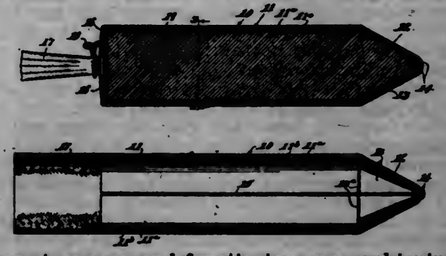
EXPLOSIVE CARTRIDGE

Don B. McCloud, Carbondale, Ill.

Application October 27, 1932. Serial No. 639,757

4 Claims. (Cl. 102—6)

1. A liquid oxygen explosive cartridge of the character described, comprising a substantially cylindrically formed outer retaining casing of cloth, and a lining of corrugated stiffening, shock absorbing and insulating sheet material, the corrugations of said lining material extending longitudinally and being disposed outwardly and in cooperative engagement with the outer casing cloth whereby to produce longitudinal insula-



tive air spaces, and functioning as a cushioning pad between the outer cloth casing and the filler ingredients of the cartridge.

1,923,497

PURIFYING OF NATURAL HEAVY SPAR

Johannes Müller, Homberg - on - the - Lower-Rhine, Germany, assignor to "Sachtleben" Aktiengesellschaft fur Bergbau und Chemische Industrie, Homberg - on - the - Lower - Rhine, Germany, a German Company

No Drawing. Application May 6, 1929, Serial No. 360,987, and in Germany July 30, 1928

8 Claims. (Cl. 23—122)

1. A method of purifying natural heavy spar, consisting in calcining under reducing conditions lump spar at 1300–1350° C. whereby small amounts of barium sulphide are produced, quenching the same and removing the metal sulphides formed.

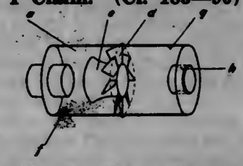
1,923,498

AIR PURIFIER

Fritz Nallinger, Stuttgart-Unterturkheim, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, a Company of Germany

Application May 10, 1930, Serial No. 451,393, and in Germany May 17, 1929

1 Claim. (Cl. 183—90)



An air purifier for the carburettor of an internal combustion engine, comprising in combination an air purifying chamber having an outlet in communication with the carburettor, a conical frustrum extending into the chamber at the end thereof remote from the outlet and flaring towards the inside, the air purifying chamber also having a plurality of screw-shaped inlet channels extending round said conical frustrum, an antechamber in open communication through said inlet channels with the air-purifying chamber and an air inlet nozzle for admitting air to said antechamber, said nozzle comprising a tube of the Venturi type.

1,923,499

AUTOMATIC TRAIN CONTROL

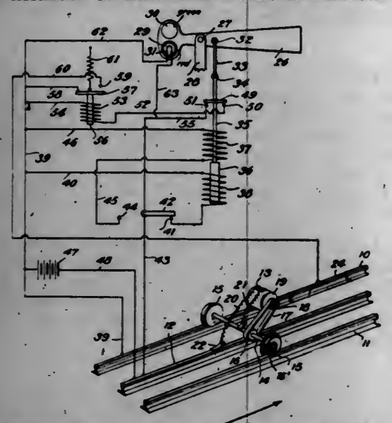
William Naken, Chicago, Ill.

Application February 24, 1932. Serial No. 594,896

2 Claims. (Cl. 246—31)

1. In an automatic train control system, the combination of main rails upon which travel the

wheels of a vehicle connected by an axle, one rail having an insulated section, a power rail, a motor for driving the axle and having one terminal connected electrically through the axle and one wheel with the main rail containing the insulated section and having its other terminal electrically connected with the power rail, a source of current having one terminal connected with the main rail containing the insulated section and its other terminal connected with the power rail, a remotely located switch embodying a movable arm connected with the power rail, a pair of solenoids, a plunger carrying a core adapted to be affected by a selected one of said solenoids, a semaphore arm connected with said plunger and movable thereby, illuminated signalling means carried by the semaphore, a contact engageable by the movable member of said switch and connected with



one terminal of one of said solenoids, a second contact engageable by the movable arm of said switch and connected with one terminal of the other of said solenoids, both of said solenoids having their other terminals connected with the source of current, an additional solenoid having one terminal connected with the source of current, a pair of contacts, one of which is connected with the remaining terminal of said additional solenoid and the other of which is connected with the movable switch member, a core movable under the influence of said additional solenoid and carrying an armature connected with the source of current, a further contact connected with the insulated rail section and engaged by said armature for supplying current to said insulated rail section when the semaphore is in its safety indicating position.

1,923,500

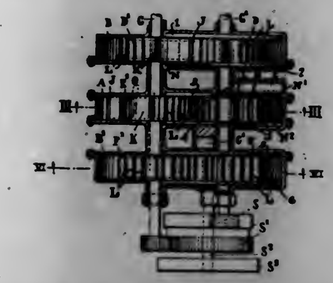
ROTARY INTERNAL COMBUSTION ENGINE

Arthur John Northey, Parkstone, England

Application March 18, 1930, Serial No. 436,857, and in Japan March 29, 1929

1 Claim. (Cl. 123—12)

In a rotary internal combustion engine comprising a number of double chambers arranged one behind the other, each of said chambers being provided with a pair of coacting pistons, one pair of which serves for compressing combustible mixture whilst the remaining pistons are driven by the combustion of said mixture, the provision of three such double chambers the compression chamber being arranged between the explosion chambers, a passage leading from one side of the compression chamber to the first explosion chamber, a second passage leading from the other side of said compression chamber to the second explosion chamber, the first-mentioned passage being disposed in advance of the second passage, a pair of ported discs arranged one at each end of the first-mentioned passage leading from the compression chamber to the first explosion chamber and fixed to one piston of each pair of compression and explosion rotors respectively, the said discs opening the ends of the said passage to permit a charge of mixture to be transferred from the compression chamber to the first explosion chamber after which said passage is closed and the mixture fired, and a second pair of ported discs arranged



one at each end of the second transfer passage leading from the compression chamber to the second explosion chamber and fixed to one piston of each pair of compression and explosion rotors respectively, the said discs opening the ends of said second passage after the first passage has been closed and the charge in the first explosion chamber fired, to permit a charge of mixture to be transferred from the compression chamber to the second explosion chamber after which the said passage is closed and the mixture fired, as a result of which two impulses instead of one are imparted to the engine for each revolution.

1,923,501

AIR VALVE AND THE LIKE

Ira D. Perry, Chicago, Ill., assignor to Agnes S. Perry, Chicago, Ill.

Application January 12, 1933. Serial No. 651,381

7 Claims. (Cl. 273—65)



1. As a new article of manufacture a valve for an inflated article comprising a moulded rubber member which is normally of generally concavo-convex form and has a relatively thick central portion having a central notch or recess in its convex face, there being a fine through passage extending through the relatively thick portion aforesaid and terminating within said notch or recess, the concavo-convex construction of said valve when attached to a flexible inflatable article normally deflecting and bending the adjacent material of said article inwardly when deflated, said valve member being flattened on inflation of said article into a position to place the material of its convex face portion under compression and seal the through passage at the position of the notch or recess aforesaid, substantially as described.

1,923,502

PROCESS AND PRODUCT FOR PROTECTING ALUMINIUM, MAGNESIUM, ZINC AND THEIR ALLOYS AGAINST CORROSION

Pierre Prier, Clichy, France

No Drawing. Application April 6, 1931, Serial No. 528,250, and in France April 24, 1930

6 Claims. (Cl. 148—6)

2. A process for protecting aluminium, magnesium, zinc and their alloys against corrosion, which consists in forming a protecting layer on articles made of these metals or alloys by the action of a hot bath containing in aqueous solution about 1.5% of both a phospho-chromate of an alkali metal and a sulpho-molybdate of an alkali metal, about 0.5% of an ortho-phosphate of an alkali metal and about 1.5% of an alkaline salt of an organic oxy-acid.

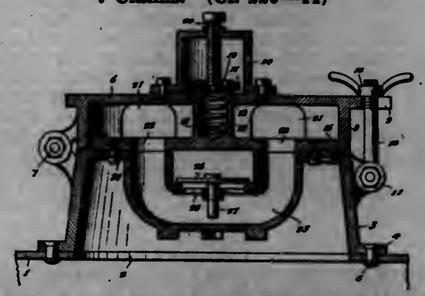
1,923,503

TANK VALVE

Ewell A. Raines, Tulsa, Okla.

Application November 5, 1930. Serial No. 493,615

7 Claims. (Cl. 220—44)



5. The combination of a body, a cover secured thereon in vertical alinement therewith and provided with air ports, a valve hung in the cover to seat on the body and cut off the air ports in the cover, and yieldable means carried by the cover for holding said valve normally seated.

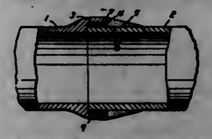
1,923,504

PIPE JOINT

Carl L. Raymond, Sanford, Fla., assignor of one-half to William J. McCracken, Miami, Fla., and one-half to Earl H. Raymond, Washington, D. C.

Application May 21, 1928. Serial No. 279,499

1 Claim. (Cl. 285—115)



A pipe joint for bell-end pipe sections formed of frangible material comprising two pipe sections arranged with the spigot end of one section positioned within the bell-end of the other section and so proportioned as to provide an annular space between the inner wall of said bell-end and the outer wall of the spigot end of the adjoining section, a plastic sealing compound substantially filling said annular space to provide a flexible joint, and a collar of cementitious material for preventing the blowing out of the sealing compound applied to a substantial area of contact on the spigot end of one pipe section substantially exteriorly of said flexible joint and having a limited area of contact with the bell-end of the adjacent pipe section, whereby any separation of the sections due to contraction thereof will cause a separation between the collar and bell-end of the pipe section.

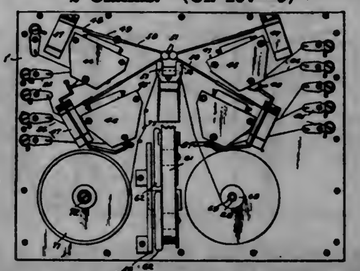
1,923,505

ELECTRIC MACHINE FOR RECORDING STENOGRAPHICALLY THE SPOKEN WORD

Carlos Richardson and Juan Arturo Richardson, Montevideo, Uruguay

Application November 17, 1930, Serial No. 496,240, and in Uruguay February 27, 1930

2 Claims. (Cl. 197—9)



1. A machine of the class described comprising a plurality of electromagnets, armatures for the magnets having type thereon, a support, a pair of spools, an ink ribbon windable from one spool to another and in the support, a paper strip movable in the support, a keyboard, keys carried by the board, switches in circuit with the electromagnets, a source of electrical energy for the magnets, said keys being adapted to close the circuits through the switches to actuate the armatures and thus the type striking the ribbon, a motor for driving the ribbon and paper strip, a driving roller, means for shifting the roller for selectively engaging a spool to change the travel of the ribbon, and means on the keyboard for controlling the speed of the motor.

1,923,506

SHADE ROLLER MOUNTING

Charles Wesley Rice, Union City, Ind.

Application April 30, 1930. Serial No. 448,718

7 Claims. (Cl. 156—24)



5. A bracket for mounting a spring actuated window shade roller in a recess formed in a wall including a portion adapted to be secured to the surface of the wall and another portion extending at an angle from the first portion adapted to be contained in the recess and provided with an integral, angularly extending tongue having a polygonal aperture for penetrating one end of a shade roller and receiving and holding against rotation the spring winding pintle thereof.

1,923,507

METHOD OF PRODUCING RESIN ESTERS

Israel Rosenblum, Jackson Heights, N. Y.

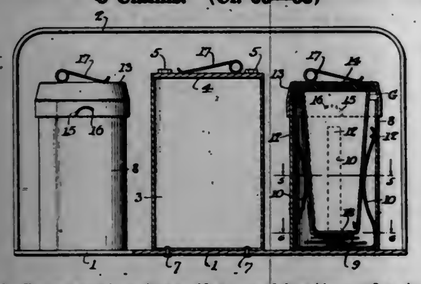
No Drawing. Application May 6, 1930 Serial No. 450,313

11 Claims. (Cl. 260—98)

1. The method of producing the partial esters of a polyhydric alcohol with resin acids, which

comprises dry-distilling a natural resin at a temperature of about 260° C. or above, and heating the resulting mass with an excess of a polyhydric alcohol sufficient to produce partial esters with said resin.

1,923,508
SERVING TRAY
Robert Galloway Ross, Charlotte, N. C., assignor to Mae Ellis, Charlotte, N. C.
Application November 1, 1930. Serial No. 492,806
5 Claims. (Cl. 65—53)



1. In a serving tray, the combination of a tray member, means for carrying the tray, cylindrical holders for glasses affixed to the tray, said holders having vertically extending bowed springs and having a bottom spring, caps releasably attachable to the holders, said caps having resilient linings to engage the tops of glasses to prevent spilling of the contents thereof.

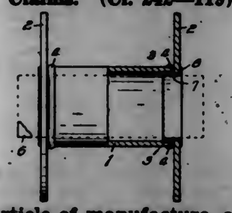
2. In a serving tray, the combination of a tray member, holders for glasses affixed to the tray, said holders having a central bottom spring, caps releasably attachable to the holders, said caps having resilient linings to engage the tops of glasses to prevent spilling of the contents thereof.

1,923,509
ELECTROTHERMALLY ACTUATED ELECTRICAL SWITCH
Ernst Rozumek, Stockholm, Sweden
Application June 24, 1930, Serial No. 463,506, and in Germany July 1, 1929
6 Claims. (Cl. 200—113)



4. An electro-thermally actuated electric switch comprising in combination, mechanically parallel and electrically series connected resistance wires, supports maintaining said wires under tension, contacts secured to the supports, a vacuum-tight closed vessel enclosing the wires, supports and contacts and constituting a bearer for the latter, a set screw acting on one of the supports of the wires and regulating the tension of the latter and the switch path of the contacts, an insulating screen arranged between the wires and the contacts, and conducting members passing through the vacuum-tight closed vessel and leading the electric current to the resistance wires and the contacts.

1,923,510
SPOOL
Walter L. Rutkowski, St. Louis, Mo., assignor to R. C. Can Company, St. Louis, Mo., a Corporation of Missouri
Application October 2, 1931. Serial No. 566,495
7 Claims. (Cl. 242—119)



1. As an article of manufacture, a spool comprising a cylindrical spool body, metallic facing devices each having a flange rolled into locked engagement with the outer face of the tube at each end thereof, a pasteboard flange in contact with the end face of each facing device and a locking device having a portion thereof passing through a central opening in each flange and pressed into frictional contact with the tube facing devices and having a flange for pressed engagement with the outer face of the flange.

1,923,511
PROCESS FOR ELIMINATING ARSENIC AND ANTIMONY FROM IRON ORES AND MANGANESE ORES
Erich Scheil, Dortmund, Germany, assignor to the firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany
No Drawing. Application February 8, 1932, Serial No. 591,759, and in Germany February 9, 1931
7 Claims. (Cl. 75—17)

1. Process for the elimination of arsenic and antimony from iron and manganese ores, consisting in heating the ore to a high temperature and then bringing it into contact with a mixture of carbonic acid and a reducing gas, the quantity of the mixture used being insufficient at the temperature used to reduce the ore to metal.

1,923,512
ORNAMENTAL SHEET FABRIC AND METHOD OF PRODUCING SAME
Jacob Stein, Brooklyn, N. Y.
Application May 22, 1930. Serial No. 454,817
5 Claims. (Cl. 154—2)



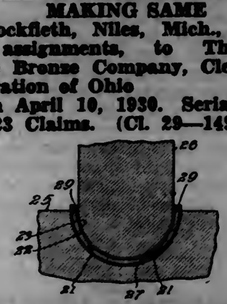
1. A method of producing an ornamental composite sheet which includes assembling a backing sheet of cloth, a sheet of lace or openwork fabric and an outer sheet of uncured rubber in superimposed relation, and subjecting the assembly to pressure to force the rubber through the openings in the open-work material and onto said cloth sheet, whereby the laminæ are secured together in a composite sheet and the open-work material is in relief.

1,923,513
BANDAGE
Abraham Steinert, Berlin, Germany, assignor to the firm P. Beiersdorf & Co., Inc., New York, N. Y.
Application July 23, 1932, Serial No. 624,253, and in Germany August 7, 1931
1 Claim. (Cl. 128—268)



A bandage for use for winding on parts of the body, comprising an adhesive coated on said bandage, said adhesive coating about one half of the breadth of said bandage—from one marginal edge to the central line—, the other half of said bandage being uncoated.

1,923,514
LOW LIMIT BEARING AND METHOD OF MAKING SAME
Berger Stockfleth, Niles, Mich., assignor, by mesne assignments, to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a Corporation of Ohio
Application April 10, 1930. Serial No. 443,103
23 Claims. (Cl. 29—149.5)

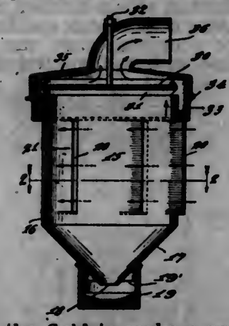


1. A bearing sleeve of the kind described, comprising a main body or shell of a cheaper metal, such as steel, provided with suitable oil grooves or cellars formed on the inner side thereof and a film-like coating of bearing metal on the inner surface of the shell applied thereon in melted condition, the whole formed and sized by pressure in suitable dies.

3. The herein described method of making half-cylindrical bearing sleeves, which consists in first producing a backing shell of a cheaper metal, such as steel, of a thickness slightly greater than in the finished sleeve, forming the same with suitable oil grooves on its inner side, coating at least the inner surface with a suitable bearing metal film-like thickness, and sizing and finishing the shell by pressure applied thereto in suitable dies.

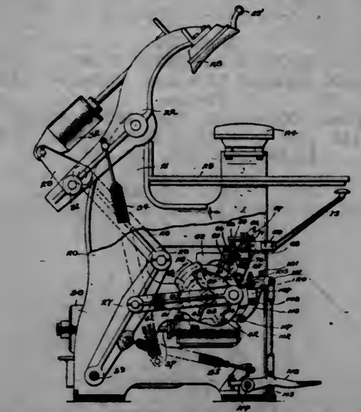
1,923,515
WHIRLPOOL CLEANER
Ray T. Stull, Washington, D. C., assignor to Stull Process Company, Savannah, Ga., a Corporation of Georgia
Application July 21, 1930. Serial No. 469,304
17 Claims. (Cl. 183—84)

1. A cleaner for fluids, comprising walls forming a vertical-axis substantially unobstructed whirlpool chamber having tangential inflow openings at spaced points around its circumference and a circumferential outflow opening, flow-directing means at said outflow opening



for causing the fluid to make a reverse turn as it leaves said chamber, and means associated with said flow-directing means for collecting contaminating matter.

1,923,516
GARMENT PRESS
Harry G. Sutton, Syracuse, N. Y., assignor to United States Hoffman Machinery Corporation, New York, N. Y., a Corporation of Delaware
Application July 31, 1930. Serial No. 472,071
7 Claims. (Cl. 68—9)

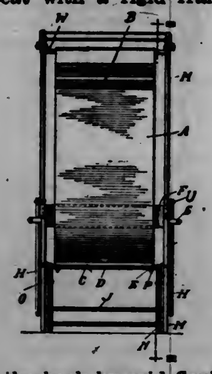


1. In a garment press, the combination of a buck; a head; constantly moving power means; mechanism connected to said head for lowering the head; means under control of the operator for transmitting power from said power means to said mechanism to effect preliminary lowering of the head; means for rendering said transmitting means ineffective when the press is in substantially closed position; and other means for thereafter rendering said transmitting means effective to produce final heavy pressure.

1,923,517
FOLDING CHAIR
William Swaninger, Granville, N. Y., assignor to The Telescope Cot Bed Company, Granville, N. Y., a Corporation of New York
Application April 10, 1930. Serial No. 443,006
2 Claims. (Cl. 155—117)

1. In a chair of the character described, comprising front and back legs in pivotal connec-

tion, said legs extending upward sufficiently to provide back and front frames respectively, a third frame pivotally connected to the back frame and engaging with the back legs to support the chair in set-up position, cross-members near the tops of said back and front frames, a flexible back depending from the rear cross-member, a seat with a rigid frame, said seat



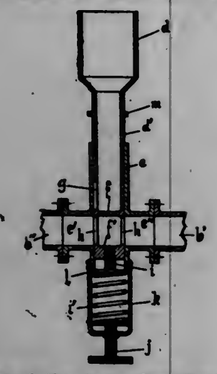
supported in the back by said flexible back and in the front on the front cross-member, a transverse yielding strip fastened to said back frame and passing behind said flexible back, a pendant pillow integral with said flexible back, and slotted means locking the front of said seat and said front cross-member in limited pivotal relation.

1,923,518

LIQUID DISTRIBUTOR

Paul Louis Armand Thiberge, Nanterre (Seine), France

Application November 29, 1930, Serial No. 499,113, and in France December 3, 1929
12 Claims. (Cl. 103—42)



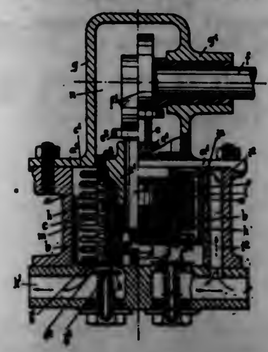
1. A device of the type described, comprising in combination, a pump, a liquid tank for said pump, a suction pipe for connecting said tank to said pump, a delivery pipe for said pump, an auxiliary receiver, adjustable means on said delivery pipe for simultaneously allowing a variable part of the liquid flowing from said pump to be discharged and returning the remainder of said liquid to said receiver, and means, operated by the weight of the liquid in said receiver, for substantially simultaneously and correspondingly connecting said receiver with said suction pipe and obturating said suction pipe at a point located between said receiver and said liquid tank.

1,923,519

COMPRESSOR

Auguste Albert Henerć Tiscrant, St. Cloud, France

Application December 29, 1930, Serial No. 505,387, and in France December 30, 1929
2 Claims. (Cl. 230—203)



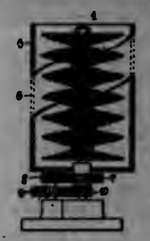
1. A compressor comprising in combination, a cylinder, a cylinder head, a hollow piston open within the cylinder reciprocable with a fluidtight fit therein, means for imparting a reciprocating motion to said piston in said cylinder, an annular metallic bellows secured in a fluidtight manner at one end to the cylinder head and at the other end to the head of said piston so as to leave a space between said bellows and the inner wall of said piston, a viscous liquid filling the whole of the inside of said bellows, inlet and outlet valves provided in the cylinder chamber, inlet and outlet pipes connected with said inlet and outlet valves respectively, the cylinder being provided with a hole extending throughout its cylindrical wall close to said cylinder head so as to communicate with said space between the bellows and the inner cylindrical wall of the piston, and a conduit for permanently connecting said hole with said inlet pipe.

1,923,520

PICTURE ASSEMBLING APPARATUS FOR TELEVISION RECEIVERS

Frans von Okolicsanyi, Nuremberg, Germany

Application July 7, 1932, Serial No. 621,290, and in Germany June 27, 1931
4 Claims. (Cl. 178—6)



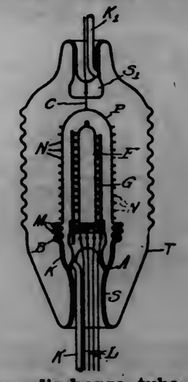
1. An apparatus for the assembling of pictures in television reception, comprising a number of mirrors corresponding to the number of picture lines, said mirrors being arranged at equal angular distances from one another along a rotary axis and being distributed over several helical turns, means for rotating said mirrors, and a rotary screen adapted to be rotated at a slower speed than said mirrors to uncover only one of the mirrors lying in the same angular position.

1,923,521

ELECTRICAL DISCHARGE TUBE

Carl J. R. H. von Wedel, Berlin, Germany, assignor, by mesne assignments, to Electrons, Inc., a Corporation of Delaware

Application September 8, 1928. Serial No. 304,697
5 Claims. (Cl. 250—27.5)



1. An electron discharge tube comprising in combination, a hollow metallic anode of relatively low mechanical strength and small heat radiating surface sealed to form an evacuated chamber therein, a cathode in said chamber, and a hollow outer vessel of relatively high mechanical strength and large radiating surface compared with said anode enclosing said anode and spaced and insulated therefrom, and a high velocity gaseous medium in said space, said medium being under pressure considerably below atmospheric pressure and adapted to transfer heat mainly by convection from the anode to the outer vessel.

1,923,522

REFRIGERATOR DEVICE

John N. Whitehouse, New York, N. Y.

Application October 23, 1931. Serial No. 570,694
4 Claims. (Cl. 62—1)



1. A sealed container having therein a readily freezable liquid, the walls of said container being made of translucent celluloid sufficiently thin to exhibit marked flexibility and elasticity characteristics.

1,923,523

AUTOMATIC SIGN

Paul B. Whitney, Santa Monica, Calif.

Application June 4, 1932. Serial No. 615,405
12 Claims. (Cl. 40—52)

1. A changeable sign comprising a multiplicity of rotatable blocks positioned in common plane to form a sign face, said blocks arranged in vertical and horizontal rows; vari-colored faces on opposite sides of said blocks; means tending to rotate said blocks in a common direction; stop means holding each of said blocks with one of said faces outward; means for releasing said



stop means to allow said blocks to rotate to a position to expose the other of said faces, there being an individual stop means for each of said blocks; and means carried by each of said blocks for releasing the stop means of the next adjacent block so that said blocks will be released in succession across said sign face.

1,923,524

MANUFACTURE OF GOODS OF OR CONTAINING RUBBER

Harry Clarence Young and Charles Hemm, Manchester, England, assignors to Dunlop Rubber Company Limited, Birmingham, England, a British Corporation

No Drawing. Application June 3, 1931, Serial No. 541,943, and in Great Britain March 21, 1931
4 Claims. (Cl. 18—58)

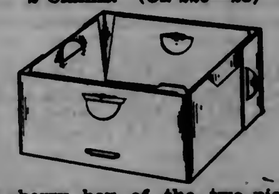
1. A process for the manufacture of perforated goods of rubber material by any one or more operations such as dipping, moulding or spreading from aqueous dispersions thereof which comprises applying the aforesaid dispersions to a backing provided with suitable engravings, removing the emulsions or dispersions from the relief parts of the backing, and coagulating the remaining portions of the applied emulsions or dispersions to a coherent film.

1,923,525

BERRY BOX

John N. Ainslie, Spokane, Wash.

Application July 13, 1931. Serial No. 550,425
2 Claims. (Cl. 229—23)



2. In a berry box of the two-piece, folded blank type, the combination with a bottom having four integral upright side sections forming an entire inner wall, of an enfolding band comprising four integral sections and forming an entire outer wall, two opposed sections of the band each having a tongue and complementary spaced notches in its upper edge, said inner wall having complementary horizontal slots to receive said tongues, and means for fastening together the ends of the enfolding band.

1,925,526

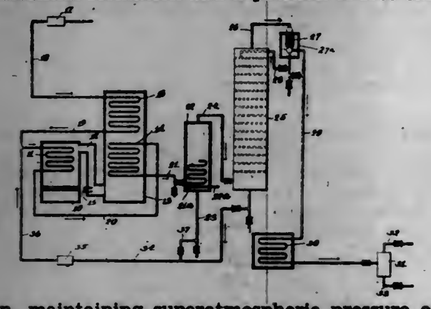
TREATING HYDROCARBON OILS

Otto Behimer, Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a Corporation of Delaware

Application August 13, 1925. Serial No. 49,915
1 Claim. (Cl. 196—58)

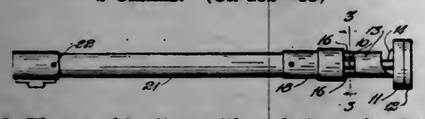
The process of converting higher boiling hydrocarbon oils into lower boiling hydrocarbon

oils which comprises passing the oil to be converted in admixture with condensate oils derived from previous conversion treatment in continuous flow in a restricted stream through a heating zone in which the oil mixture is heated rapidly to a high cracking temperature, continuing the flow of oil in a restricted stream with substantially undiminished velocity through a confined passageway in a further heating zone, where it is heated only sufficiently to maintain its cracking temperature without substantially increasing in temperature, the time of travel of the oil through said second heating zone being such as to secure a substantial conversion thereof to the desired low boiling products without substantial formation and deposition of free car-



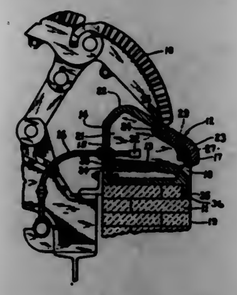
bon, maintaining superatmospheric pressure on the oil in its flow through said heating zones, reducing the pressure on the oil directly on leaving the second heating zone and passing it in indirect heat conductive contact with a body of unvaporized oil products in an enlarged chamber and thereupon discharging the heated oil mixture into said enlarged chamber, whereby its unvaporized constituents are admixed with the unvaporized oil present in said chamber and said mixture is maintained at a high temperature to effect separation of the vaporizable constituents, separating vapors released in said chamber, cooling them to condense constituents heavier than the desired low boiling products and returning such condensate to admix and pass with fresh oil in the stream entering the heating zones.

1,923,527
PERMANENT WAVING APPARATUS
Joseph Carnell, Washington, D. C.
Application May 15, 1933. Serial No. 671,254
2 Claims. (Cl. 132—33)



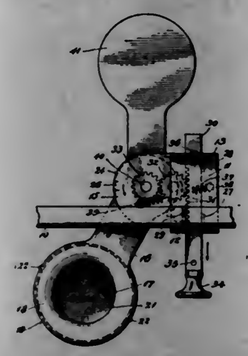
2. The combination with a hair curler having a rod forming a mandrel and provided with a scalp engaging head at its forward end, a winding element revolubly and slidably mounted on said rod and having means for engaging a strand of hair; of driving means for the winding element comprising an inner tube adapted to fit removably over the rear portion of the rod and having means at its rear end for driving engagement by the rotating element of a flexible shaft, a head on the forward end of said inner tube adapted for removable driving engagement with the winding element of the curler, a tubular handle in which the inner tube is revolubly mounted, and means carried by the handle for detachably connecting the handle to a non-rotatable part of a flexible shaft.

1,923,528
COMBUSTION APPARATUS
Clifford S. Cody, Sharon Hill, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application March 11, 1932. Serial No. 598,254
2 Claims. (Cl. 110—171)



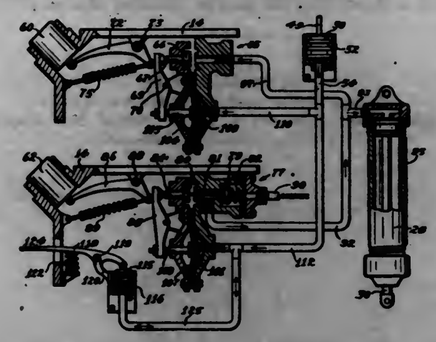
1. The combination with a refuse pit wall, of a hollow cast-metal cap for protecting such wall and for supplying a covering of cooling water to the inner face thereof and comprising a bottom wall resting on the refuse pit wall; a front wall; a rear wall terminating short of the bottom wall to define an opening extending for the width of the cap; side walls connecting the front and rear walls; a top wall providing a covering for the cap; the bottom wall having ribs provided on the upper face thereof and defining channels extending from the front wall to the rear wall of the cap; and means providing for the admission of water to the interior of the cap.

1,923,529
ASH RECEIVER
Joseph H. Cohen, Bridgeport, Conn.
Application November 1, 1929. Serial No. 403,998
10 Claims. (Cl. 266—19.5)



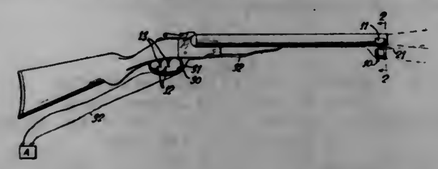
4. An ash receiver for motor vehicles comprising a supporting frame attachable to an instrument board; an ash receptacle; means movably mounted on the supporting frame and carrying the ash receptacle to move the latter from a position back of the instrument board to an accessible position in front thereof for use; and spring means adapted to be biased to complete the movement of the ash receptacle carrying means when the latter is moved to make the ash receptacle accessible.

1,923,530
PRESSING MACHINE CONTROL LOCK
Ernest Davis, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York
Application November 21, 1930, Serial No. 497,194
Renewed November 4, 1932
17 Claims. (Cl. 68—9)



1. In a garment or laundry pressing machine in combination cooperative pressing jaws one of which is movable with respect to the other; operating mechanism for the movable pressing jaw including a motor; operator operated means to control the supply of working fluid to the motor; and mechanism, controlled by the pressure between the pressing jaws, for locking the fluid supply control means in operated position.

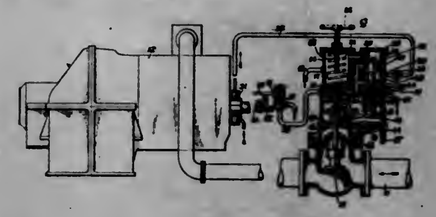
1,923,531
AIM PERFECTING ATTACHMENT FOR GUNS
Luis de Florez, Pomfret, Conn.
Application December 12, 1930
Serial No. 502,163
4 Claims. (Cl. 240—6.41)



1. In an attachment of the kind described for guns, a flash-light comprising a bulb, a concentrated filament in the bulb, a substantially parabolic reflector, and means for adjusting the bulb relative to the center of the reflector to modify the cross-sectional shape of a beam of light reflected therefrom to correspond to the shape of the area covered by shot fired from a gun at the target.

1,923,532
THROTTLE VALVE OPERATING MECHANISM
Rudolph J. Eisinger, Prospect Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application February 26, 1930. Serial No. 431,523
7 Claims. (Cl. 137—140)

1. The combination with a valve, of an operating mechanism therefor comprising a piston connected to the valve, a cylinder for the piston, pilot valve means located exteriorly of the cylinder for controlling the application of fluid pressure to the piston, a control member movable to various positions corresponding to open, closed and intermediate positions of the valve, means controlled by the control member for moving the pilot valve to effect movement of the valve to the position thereof corresponding to the position of the control member, means for returning the pilot valve



means to cut-off position when the valve is brought to said corresponding position, and means whereby, when the valve is in closed position, the same cannot be opened until the control member is brought to the position corresponding to closed position of the valve.

1,923,533
WINDOW SASH MEETING RAIL
Harry B. Foresman, Enid, Okla., assignor to Lock Joint Window Company, Kansas City, Mo., a Corporation of Delaware
Application February 19, 1930. Serial No. 429,730
1 Claim. (Cl. 20—52.4)

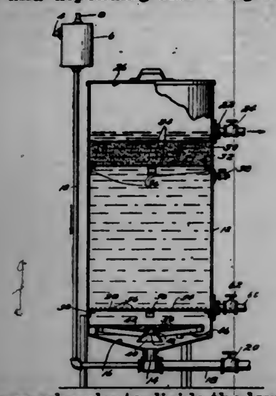


A window, comprising a frame having an upper and a lower sash each slidably mounted therein for rectilinear, reciprocating, vertical movement, a groove and tapered flange formed by the meeting rail of each sash respectively, the groove and flange of the upper sash engageable with the flange and groove respectively of the lower sash when the window is closed, a resilient pad positioned along the bottom of the groove formed in the meeting rail of the lower sash engageable by the edge of the flange of said upper sash when the window is closed, the free end of the flange on the lower sash being spaced apart from the bottom of the groove formed in the upper sash whereby a channel is formed therebetween, and a series of drain holes formed through the upper sash meeting rail to communicate with said channel.

1,923,534
DEVICE FOR CLARIFYING AND PURIFYING LIQUIDS
Thomas E. Fry, Kansas City, Mo., assignor to Oscar K. Herndon, Kansas City, Mo.
Application February 27, 1931. Serial No. 518,729
5 Claims. (Cl. 210—45)

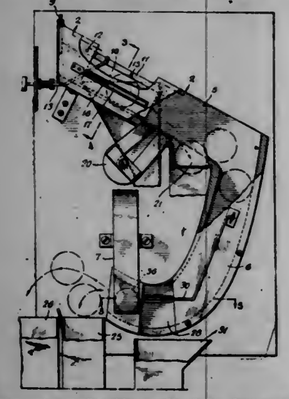
1. A clarifying device for solvents, comprising a tank, having an intake and an outlet port; distributing means for the solvent within the tank and between said ports comprising a pair of oppositely disposed and interconnected perfo-

rated cones, a perforated plate adjacent said cones; and depending ribs integral with one of
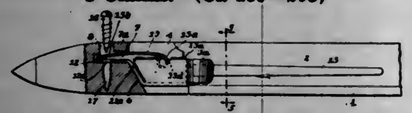


said cones whereby to divide the lower side thereof into a plurality of compartment traps.

1,923,535
COIN SELECTING APPARATUS
John Gottfried, Brooklyn, N. Y., assignor to B. & G. Coin Selectors, Incorporated, Bridgeport, Conn.
Application March 4, 1931. Serial No. 519,980
10 Claims. (Cl. 194—101)



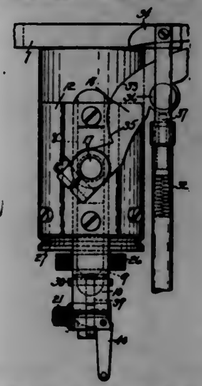
10. In a coin selecting device, in combination, a J-shaped coin chute arranged to project a coin in general horizontally but slightly upwardly, a magnet positioned to provide a magnetic field which will retard the movement of the coin so far as its horizontal component of movement is concerned, substantially as described.

1,923,536
SHUTTLE
William A. Graf, Paterson, N. J.
Application February 18, 1932. Serial No. 593,704
3 Claims. (Cl. 139—208)



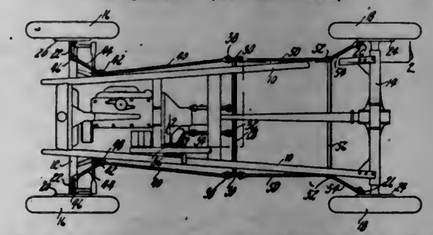
1. In a shuttle, the combination of the fixed shuttle structure having a space therein for receiving a weft-package carrier and a seat within said space, a weft-package carrier having two angularly related faces either of which may bear on said seat and also having a bearing whose axis is opposite to and arranged in two converging lines respectively perpendicular to and passing through said faces, and spring means secured to said structure and having a bearing in yielding and articulative engagement with the first bearing and holding the carrier against the seat.

1,923,537
CARBURETOR
Grant Hammond, New Haven, Conn.
Application January 8, 1930. Serial No. 419,242
18 Claims. (Cl. 261—50)



1. A carburetor including a shell, a throttle valve for admitting air to said shell, a valve actuating member, and a connection between said valve and actuating member arranged to apply a maximum amount of leverage at the beginning of opening movement of the valve and to gradually decrease said leverage during such opening movement by a constant movement of the accelerating member.

1,923,538
BRAKE EQUALIZING SYSTEM
Hans A. Hille, Des Moines, Iowa
Application October 1, 1930. Serial No. 485,662
1 Claim. (Cl. 188—204)

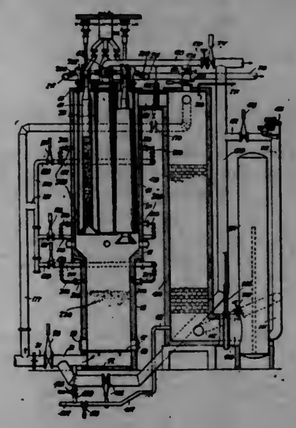


In a structure of the class described, a chassis frame, front and rear pairs of supporting wheels therefor, a brake associated with each one of said wheels, a control link for each of said brakes having pivoted universal motion, an intermediate transverse shaft rotatably mounted on said frame, cross heads on said rotatable shaft, two front and two rear links universally pivoted to each of said cross heads and respectively to the control links of the brakes of said front and rear pairs of supporting wheels so that rotation of said shaft will operate said control links for controlling said brakes and two transverse connecting rods pivoted to said front and rear links adjacent the points where the control links connect with the front and rear links, said transverse connecting rods being of less length than the distance between said front and rear links so that when the parts are operated for applying the brakes the transverse connecting rods tend to individually equalize the pull on the brakes of each pair of wheels.

1,923,539
PRODUCTION OF ANTICORROSIVE PROTECTIVE COATINGS ON LIGHT METALS
Alexander Jenny, Berlin-Charlottenburg, Heinz Siebeneicher and Nicolai Budiloff, Berlin-Friedenau, Germany, assignors to Siemens-Electro-Asmose G. m. b. H., Siemensstadt near Berlin, Germany, a Corporation of Germany
No Drawing. Application September 16, 1930, Serial No. 482,368, and in Germany September 16, 1929
7 Claims. (Cl. 204—1)

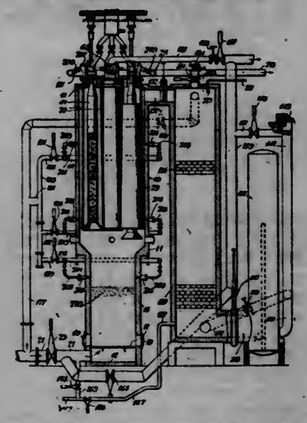
1. In the production of uniformly colored protective coatings on articles of aluminum and aluminum alloys, the process which comprises passing alternating current through an electrolytic bath between such an article and an electrode of similar metal, the said electrode having been previously provided with an oxide-containing coating in a prior operation.

1,923,540
GAS MAKING PROCESS
Alfred Johnson, West New Brighton, N. Y., assignor to Combustion Utilities Corporation, New York, N. Y., a Corporation of Maine
Application June 19, 1929. Serial No. 372,112
19 Claims. (Cl. 48—202)



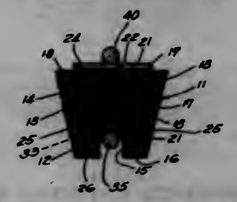
1. The process of producing a combustible gas and concurrently carbonizing fuel in relatively thin stationary layers which comprises passing a fluid through an incandescent fuel bed and concurrently passing the resultant highly-heated gases in indirect heat exchange relation with a column of fuel arranged in a thin annular layer adjacent to and out of direct contact with the said fuel bed, the said hot gases serving to supply at least a portion of the heat for carbonizing the said fuel.

1,923,541
GAS GENERATING APPARATUS
Alfred Johnson, West New Brighton, Staten Island, N. Y., assignor to Combustion Utilities Corporation, New York, N. Y., a Corporation of Maine
Original application June 19, 1929, Serial No. 372,112. Divided and this application August 22, 1931. Serial No. 558,668
19 Claims. (Cl. 48—73)



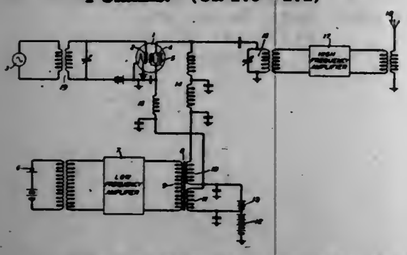
1. Apparatus for concurrently carbonizing and gasifying solid fuel which comprises a vertically disposed generator housing, air and steam lines leading into the lower portion thereof, a plurality of pairs of concentric hollow tubular members mounted in the upper part of the generator housing and forming a plurality of carbonizing retorts of relatively thin annular cross section, a removable bottom closure for each of the said annular retorts, a regenerator, means for connecting the inner member of each pair of retorts with the regenerator, means for connecting the upper portion of the generator housing with the regenerator, and means for controlling the relative amounts of heating gases passing into the regenerator respectively through the inner retort members and through the generator housing.

1,923,542
V-SHAPED BELT
Homer Richards Keyes and Charles Homer Keyes, Los Angeles, Calif.; said Charles Homer Keyes assignor to Homer Richards Keyes
Application October 7, 1932. Serial No. 636,650
1 Claim. (Cl. 74—63)



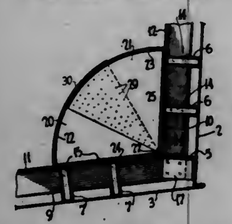
A loop belt of the character described, including: a V-shaped belt member having a longitudinal groove in the bottom thereof; and a coupling means for securing the ends of said belt member together comprising a bar and a pair of essentially parallel prongs extending from the ends of said bar, said bar being received in the end portions of said groove and said prongs projecting outwardly through the ends of said belt member.

1,923,543
MODULATION SYSTEM
Walter L. Lawrence, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application December 31, 1931
Serial No. 584,099
4 Claims. (Cl. 179—171)



1. A modulating system comprising an electric discharge tube having a cathode, an anode, a control grid, and a screen-grid, a source of carrier waves, a source of modulating current, means connecting said source of carrier waves to said control grid, means connecting said source of modulating current to said anode to produce variations in the voltage between said anode and said cathode, and means connecting said source of modulating current to said screen-grid to produce variations in the voltage between said screen-grid and said cathode, said last mentioned voltage variations being controlled to be substantially in phase with said first mentioned voltage variations and said screen grid constituting an electrostatic screen between said anode and said control grid to substantially prevent regenerative action in said tube.

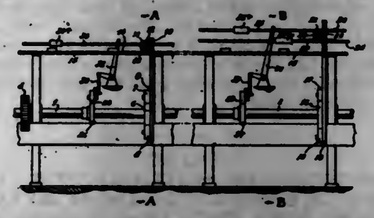
1,923,544
ADJUSTABLE GUSSET STRUCTURE
Lloyd H. Leonard, Philadelphia, and John C. Whitesell, Jr., Norristown, Pa., assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania
Application April 14, 1932. Serial No. 605,208
7 Claims. (Cl. 9—6)



1. A gusset of substantially box-section including parts adapted for adjustably fitting the gusset between walls of various angular relations to each other.

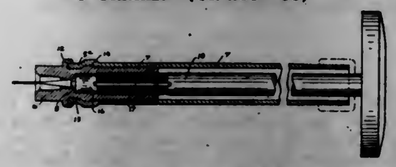
1,923,545
FULL FASHIONED KNITTING MACHINE
Karl Richard Lieberknecht, Oberlungwitz, Germany, assignor to Kallo Inc., New York, N. Y., a Corporation of New York
Application May 26, 1932, Serial No. 613,597, and in Germany April 4, 1932
5 Claims. (Cl. 66—82)

1. A flat knitting machine having a main cam shaft and an auxiliary cam shaft, said auxiliary cam shaft having a cam thereon, a pitman engaging with said cam, a rack on said pitman, a pinion shaft, a pinion thereon meshing with said pitman rack, a second pinion on said pinion



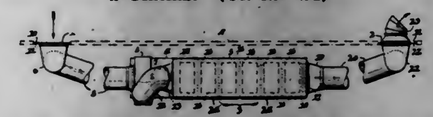
shaft, a slur cock, a rack associated with said slur cock and meshing with said second pinion, and means for rotating said auxiliary cam shaft at half the speed of the main cam shaft.

1,923,546
FUEL VAPORIZER AND METHOD OF MAKING SAME
Walter C. Lindemann and Adolph T. Schmidt, Milwaukee, Wis., assignors to A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a Corporation of Wisconsin
Application November 15, 1929
Serial No. 407,416
9 Claims. (Cl. 285—56)



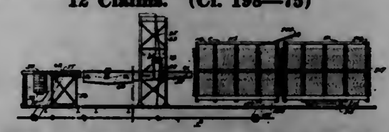
1. A device of the character described comprising a pair of tubular members having portions disposed in telescoped relation, one of said members having a portion swaged to the other member, said other member having a portion swaged to said first named swaged portion.

1,923,547
APPARATUS FOR COOLING PASSENGER CARS
William J. Madden, Lansdowne, Pa.
Application October 20, 1932. Serial No. 638,729
2 Claims. (Cl. 62—24)



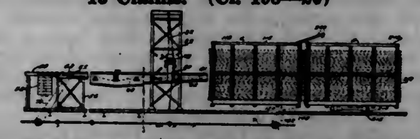
1. In apparatus for cooling passenger cars while not in motion, the combination of a platform truck placed alongside a passenger car in parallel arrangement therewith, an air refrigerator mounted upon said truck with air inlet and air outlet passages at opposite ends thereof, a short flexible intake duct extending from the inlet passage of the refrigerator to a window near one end of the car; a long flexible discharge duct extending from the outlet passage of the refrigerator to another window more remote from that end of the car, said intake duct being stiffened to prevent its collapse under suction, and said outlet duct leading through the window to which it is applied and terminating in a nozzle directed toward the opposite end of the car, and a blower for effecting continuous circulation of air through said refrigerator and ducts, whereby a single closed system of air circulation may be established in which a high velocity cold air stream is projected toward one end of the car while warm air is exhausted from the other end of the car.

1,923,548
ARTICLE HANDLING SYSTEM
William H. Mason, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a Corporation of Delaware
Original application November 30, 1926, Serial No. 151,809. Divided and this application May 22, 1929. Serial No. 364,998
12 Claims. (Cl. 198—75)



1. The combination of a stationary rack, a travelling rack adapted to occupy a position at one end of the stationary rack, each of said racks having a series of superposed conveyors so arranged and adapted to be actuated in such a manner that, when said movable rack is in said position at the end of said stationary rack, a load on each of the stationary rack conveyors may be discharged to and received by a corresponding travelling rack conveyor, means for simultaneously actuating said stationary rack conveyors and a driving connection between the two racks for actuating said movable rack conveyors in unison with said stationary rack conveyors.

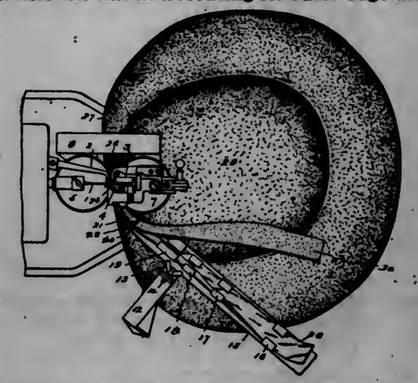
1,923,549
ARTICLE HANDLING SYSTEM
William H. Mason, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a Corporation of Delaware
Original application November 30, 1926, Serial No. 151,809. Divided and this application May 20, 1930. Serial No. 454,060
13 Claims. (Cl. 198—20)



1. The combination of a series of conveyors, mounted one over the other and each having a driving shaft at one end of the conveyor and a toothed driving wheel on said shaft, a transfer device comprising a carrier, one end of which is movable up and down so as to register with any one of said conveyors, means for driving said carrier and means for driving the conveyor with which said carrier registers, said last named means including a chain which is driven by and movable up and down with said one end of said carrier, and additional means for moving a portion of said chain so that said chain engages and drives the toothed wheel of said last named conveyor.

1,923,550
METHOD AND MEANS FOR PROTECTING HATS FROM PERSPIRATION
Charles H. Merritt, Danbury, Conn., assignor to The Clark Box Company, Danbury, Conn., a Corporation of Connecticut
Application November 21, 1931
Serial No. 576,583
5 Claims. (Cl. 112—12)

1. The combination with the stitching mechanism of a sewing machine which has a rotatable support for a hat at the fold of its brim and a pivotally supported wing for guiding the hat, of means carried by and movable with said wing for guiding a strip of perspiration proof material into the hat and locating its outer edge along



the inner edge of the brim, means carried by and movable with said wing for guiding a leather into the hat and locating its outer edge along the outer edge of said perspiration strip, and mechanism for feeding together the hat, strip and leather to stitching position.

1,923,551
BRAIDED OR PLAITED MATERIAL
Alice C. Murphy, New York, N. Y., assignor of one-half to Alfred David, New York, N. Y.
Application January 27, 1933. Serial No. 653,776
1 Claim. (Cl. 28—1)



A puff braided or plaited rug, furniture cover or the like, comprising a continuous braid consisting of short tubes of fabric material sewn end to end and forming longer tubes which are plaited together to form the braid, the raw edges of said tubes being within the tubes and the stitches securing said raw edges together passing through two thicknesses only of the material and being concealed within the tubes, at least one of said short tubes in any section of the braid being of silk-like material, the short tubes forming any section of the braid being formed of materials of three different weights, the raw end edges of said short tubes being within the tubes and the stitches joining said edges being concealed within the tubes.

1,923,552
VACUUM TUBE
Edmund Guyer Murphy, Chicago, Ill.
Application October 24, 1928. Serial No. 314,799
2 Claims. (Cl. 250—27.5)

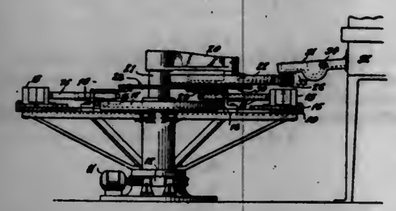
1. A thermionic valve having a plurality of electrodes in an envelope, a base secured to said envelope, a variable cartridge condenser insertably mounted in said base and having a make-

and-break connection with two of said electrodes, and an element in the base coacting with a sleeve slidably mounted on said con-



denser whereby the capacity of the condenser and consequently the electrostatic capacity of the two said electrodes may be varied.

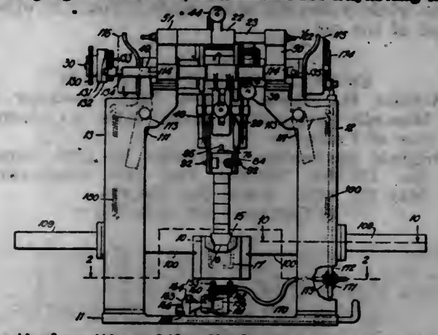
1,923,553
MOLD POURING APPARATUS
Pearson M. Payne, Denver, Colo.
Application August 25, 1931. Serial No. 559,322
4 Claims. (Cl. 22—79)



3. In a continuous casting machine having horizontally placed, rotating series of spaced apart molds, means for pouring said molds comprising: a horizontally placed, metallic ring, a supporting member rotatably supporting said ring to one side the axis of and above said molds, said ring having a lesser diameter than said series of molds and arranged to rotate at a higher speed than the latter; a series of metal-receiving cups carried by said ring, each cup having an independent discharge through said ring; and a power transmission device connecting said ring and said series of molds to cause said ring to rotate in synchronized relation to said series of molds so that the discharges will successively register with said molds during a portion of their travel.

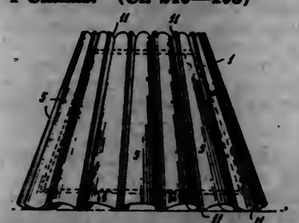
1,923,554
MACHINE FOR FEEDING MOLTEN GLASS
Karl E. Peiler, Hartford, Conn., assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware
Continuation of application Serial No. 856,548, August 13, 1914, and in Canada March 31, 1916. This application March 28, 1917. Serial No. 157,943
19 Claims. (Cl. 49—55)

1. The combination, with a container for molten glass, of a glass displacer suspended for reciprocating movement in the container, means for swinging the displacer, means for raising and lowering the displacer in timed conjunction with its swinging movements, and means for adjusting the



vertical position of the displacer, at any time during its said movements.

1,923,555
LAMP SHADE
Emil Provenzano, Brooklyn, N. Y., assignor to Isaac Batkin, New York, N. Y.
Application June 14, 1933. Serial No. 675,654
4 Claims. (Cl. 240—108)



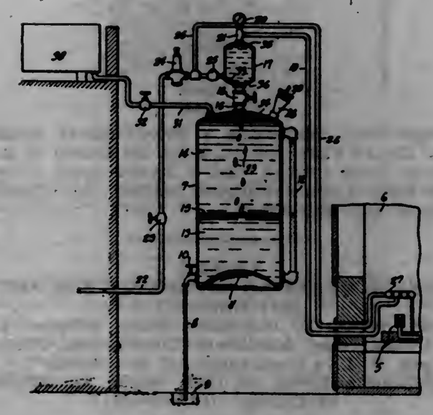
1. A lamp shade comprising a frame having a horizontally disposed rod-like supporting member and a plurality of covering sheets held upon said supporting member, each sheet being initially flat and having opposed holes adapted to receive said rod-like support and having slits projected from the holes to the edge of the sheet, the sheet being bent so that the slits are brought into register with the rod and the rod moved through the slits into the holes.

1,923,556
ATTACHMENT FOR SEWING MACHINES
Charles H. Sanborn, Newburyport, Mass., assignor to Haley, Cate, Rockwood Co., Inc., Everett, Mass., a Corporation of Massachusetts
Application July 14, 1930. Serial No. 467,691
4 Claims. (Cl. 112—152)



1. An attachment for sewing machines comprising a base having a curved guiding slot therethrough, a guide integral with and above said base and adjacent to one side of said slot, and a guide integral with and below said base and at the opposite side of said slot.

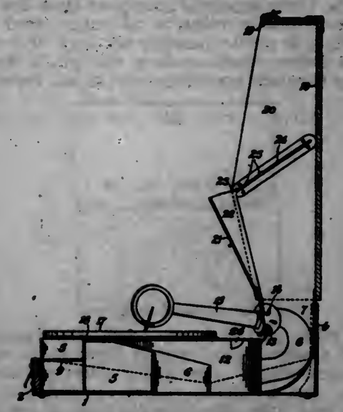
1,923,557
PRESSURE FEED SYSTEM FOR LIQUID FUEL
Edmund Schmitt, Stratford, Conn.
Application January 25, 1930. Serial No. 423,371
2 Claims. (Cl. 210—47)



1. In a pressure feed system for liquid fuel burners, a pressure tank for receiving the liquid fuel, a discharge leading from the lower part of said tank, means for supplying liquid fuel to said tank, an auxiliary pressure tank above the first tank, a discharge leading from the upper part of the first tank to the lower part of the auxiliary tank of sufficient size to simultaneously permit water to flow freely from the auxiliary tank to the first tank and liquid fuel to flow freely from the first tank to the auxiliary tank, a control valve in said connection, a water supply pipe leading to the auxiliary tank for continuously feeding water under pressure to the lower part of the auxiliary tank to force liquid fuel from said tank while the main tank is being filled with liquid fuel and also to force said liquid fuel from the main tank to the auxiliary tank after the filling operation, and a discharge pipe leading from the upper part of the auxiliary tank.

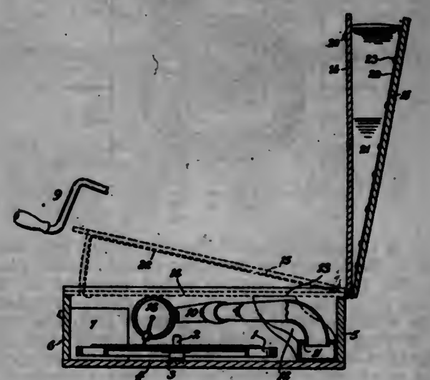
1,923,558
TALKING MACHINE
Horace Leopold Tucker Buckle, Buckinghamshire, and Harry Archibald Thompsett, Ealing, London, England, assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y., a Corporation of Delaware
Application December 21, 1929, Serial No. 415,754, and in Great Britain January 19, 1929
16 Claims. (Cl. 274—2)

1. In a talking machine, a base, a cover hinged to said base, a plate pivoted to said base and cooperating with said cover to form a horn extension, and means connecting said cover



and said plate for simultaneous movement when the cover is moved.

1,923,559
TALKING MACHINE
Alfred Whitaker, West Drayton, England, assignor to Victor Talking Machine Company, a Corporation of New Jersey
Application February 25, 1930, Serial No. 431,242, and in Great Britain March 13, 1929
13 Claims. (Cl. 274—2)

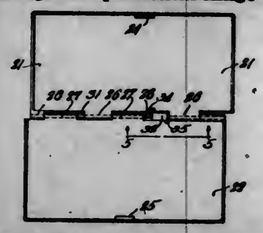


1. In a talking machine, a base, a closure hinged to said base, and a lid for said base pivoted to said closure on an axis parallel to the hinge axis of said closure and cooperating with said closure to form a horn extension, said closure and lid lying flat upon each other in closed position.

1,923,560
HINGED CONTAINER
Frederick A. Whittaker, Attleboro, Mass., assignor to Marathon Company, Attleboro, Mass., a Corporation of Massachusetts
Application July 29, 1931. Serial No. 553,744
3 Claims. (Cl. 206—1.5)

1. A container of the class described, comprising a pair of members each having integral

spaced hinge ears, the ears of one member being received in the spaces between adjacent ears of the other member and the ears being shorter than the complemental spaces so that the members are slidable relative to each other along the hinge, a pintle passing through the ears, a pair of sleeves surrounding the pintle and extending through complemental hinge ears at opposite ends of the hinge joint, the inner ends of said sleeves being spaced from each other, a tube surrounding the pintle intermediate said sleeves, and a spring coiled around the pintle within said tube, the opposite ends of the spring projecting from said tube and bearing against the respective members thereby to urge said members apart.



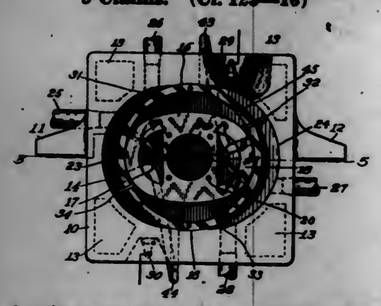
1,923,561

ROTARY COMBUSTION ENGINE

Gunnar A. F. Winckler, Marblehead, Mass.

Application May 28, 1929. Serial No. 366,731

5 Claims. (Cl. 123—16)



1. A rotary engine of the expansion type having a stationary supporting frame, spark plugs in the frame, a rotary motor element in the form of a ring supported in the frame, rotatable side walls secured to and rotates with the ring, a driving member secured to one of the side plates, a cam block inside the ring for supporting it at right angles to the frame support, a compression chamber in the casing located inside the ring, an outer expansion chamber located outside the ring, transfer pipe between the chambers, radial vanes moving in both the chambers and means in relation to the ring to compress and expand the fluids without auxiliary mechanism.

1,923,562

SHOE SEWING MACHINE

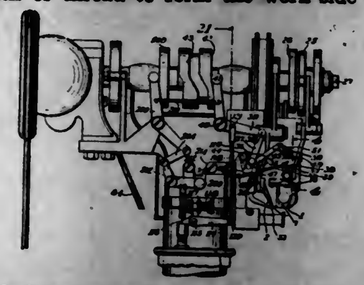
Erastus E. Winkley, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey

Application May 14, 1929, Serial No. 362,952

Renewed December 1, 1932

17 Claims. (Cl. 112—35)

1. A hook needle chain stitch inseam shoe sewing machine having, in combination, a needle, a looper, a take-up acting to tighten a loop of thread around the shank of the needle while the latter is through the material, and means for delivering to the needle a measured length of thread to form the work-side of the needle-loop comprising a thread-placer laying the thread along the work for the length of the stitch being formed, and a thread-finger drawing aside a bend of thread between the thread-placer and the looper.



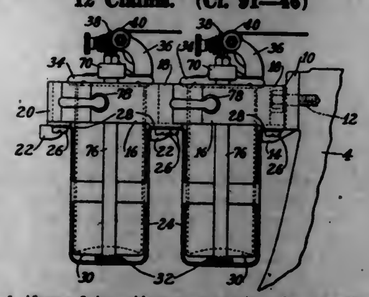
1,923,563

THREAD TREATING APPARATUS FOR SEWING MACHINES

Fred Ashworth, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey

Application March 12, 1931. Serial No. 522,253

12 Claims. (Cl. 91—46)



1. A thread treating apparatus for sewing machines having, in combination, a machine frame provided with a dove-tail guide, a wax receptacle, formed with a dove-tail slot on one side to fit the guide on the frame and with a dove-tail guide on the other similar to the guide on the frame whereby a plurality of similar individual receptacles may be inter-changeably mounted on the machine frame or may be mounted one upon another.

1,923,564

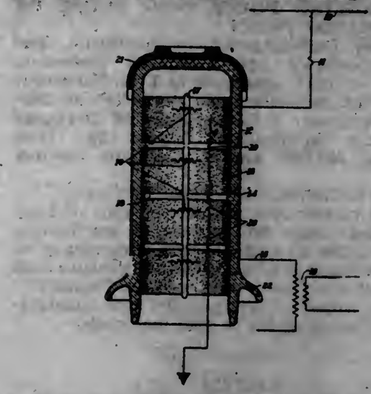
CONDENSER LIGHTNING PROTECTION DEVICE

Arthur O. Austin, near Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey

Application December 3, 1929. Serial No. 411,290

4 Claims. (Cl. 175—39)

1. A surge arrester adapted to be interposed between a transmission line and a translating device, said surge arrester comprising a tubular, dielectric member, a resistance wound on the outer surface of said member and electrically connected in series between said line and device, and a conductor coating disposed on the inner surface of said tubular, dielectric member and separated into sections insulated from one another, and conductor paths having resistances therein electrically connecting said sections.



1,923,565

TESTING APPARATUS AND METHOD

Arthur O. Austin, near Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey

Application August 30, 1930. Serial No. 479,008

17 Claims. (Cl. 175—183)

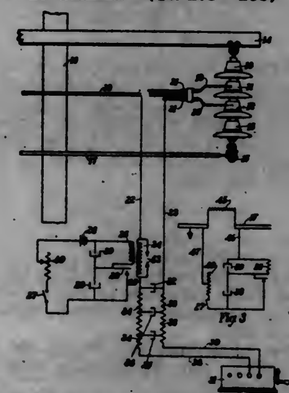


Fig 3

1. Testing apparatus comprising a high voltage source for causing initial breakdown across the fault of a test piece, means other than said source for causing a flow of detection current to follow the breakdown across said fault, an instrument for indicating flow of said detection current across said fault, and means for protecting said instrument from the high voltage of said source.

1,923,566

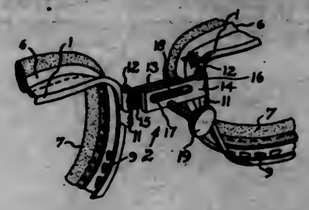
OPHTHALMIC MOUNTING

Nelson M. Baker, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application November 9, 1928. Serial No. 318,149

2 Claims. (Cl. 88—43)

1. In a device of the character described, a pair of separated lens holding members, an abutment on the nasal side of each of the lens holding members, horizontally aligned with each other, and having a relatively long hinge pintle projecting therefrom, the axis of said pintle being substantially vertical, a pair of dog toothed racks, overlying and meshing with each other, each rack having one free end and one end with a relatively long pintle bearing pivotally fitted to its respective pintle, said pintle bearing being in length equivalent to two separated point bearings sufficient to hold the lens holding members in alignment without sagging to hold the lenses in required optical alignment, one of said racks having a longitudinal slot therein, and securing means extending through said slot and attached to the other of said racks, whereby on partial loosening of the securing means without releasing said means from said rack to which it is attached the racks may be longitudinally adjusted with respect to each other.



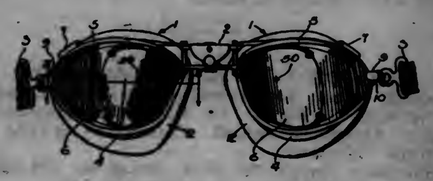
1,923,567

OPHTHALMIC MOUNTING

Nelson M. Baker, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application August 30, 1929. Serial No. 389,542

14 Claims. (Cl. 88—41)



1. In a device of the character described, a split lens holding frame holding a lens of substantially zero power, a second frame within the first, a lens having prescription power in the second frame and means to close the split first frame together to clamp the second frame in position therein and means to secure the lens having the prescription power in said second frame.

1,923,568

CLUTCH DEVICE

Herbert L. Bone, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania

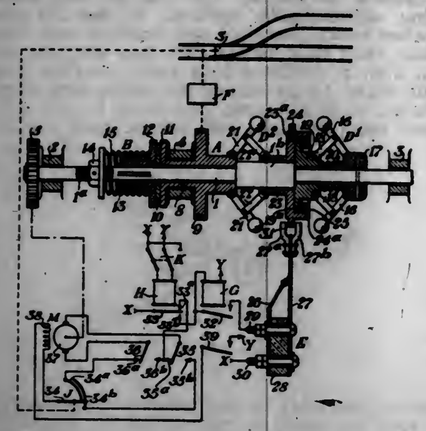
Application September 23, 1932

Serial No. 634,519

4 Claims. (Cl. 192—150)

1. In combination, a drive shaft, a sleeve mounted to rotate on said shaft and connected with the shaft by means of a friction clutch, a gear secured to said sleeve for transmitting power from said shaft, a first centrifuge oper-

atively connected with said gear, a second centrifuge secured to said shaft, a contact, and



means controlled jointly by said two centrifuges for controlling said contact.

1,923,569

PRODUCTION OF DIOLEFINES

Martin Mueller-Cunradi, Ludwigshafen-on-the-Rhine, and Ernst Ober, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application June 17, 1930, Serial No. 461,841, and in Germany July 22, 1929

6 Claims. (Cl. 260—171)

1. A process for the production of a diolefine, which comprises passing a 1.3-butylene glycol at a pressure of about 2 to 20 atmospheres and at a temperature of about 250° to 400° centigrade over a dehydration catalyst.

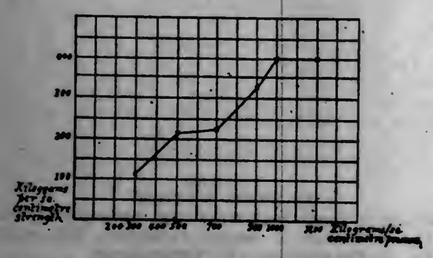
1,923,570

PRODUCTION OF SODIUM CYANIDE

Konrad Gabel, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

Application August 19, 1930, Serial No. 476,389, and in Germany September 7, 1929

3 Claims. (Cl. 23—79)



1. Sodium cyanide briquettes which are transparent and have a mechanical strength of at least 230 kilograms per square centimetre.

2. In the production of sodium cyanide briquettes by pressure, the step which consists in pressing pulverulent dry sodium cyanide at a pressure of at least 700 kilograms per square centimetre.

1,923,571

CONVERSION OF HYDROCARBONS OF HIGH BOILING POINT INTO THOSE OF LOW BOILING POINT

Ernst Galle, Ludwigshafen-on-the-Rhine, and Walter Rosinsky and Gerhardt Hofmann, Oppau, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany

No Drawing. Application August 23, 1928, Serial No. 301,668, and in Germany October 3, 1927

9 Claims. (Cl. 196—54)

1. In the conversion of hydrocarbons of high boiling point range into others of low boiling point range, the step which comprises acting on the said materials at a cracking temperature with a catalyst of the type of the complex "ansalvo" acids, said "ansalvo" acids or the acid constituent thereof being added to said materials.

1,923,572

OPHTHALMIC LENS

Anna E. Glancy, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application November 2, 1929. Serial No. 404,373

2 Claims. (Cl. 88—54)



1. A multifocal lens having a curvature on one side thereof, a second curvature surfaced on the first, an inserted portion on the side opposite said curvatures overlying a portion of both, and a curvature surfaced on the side containing the inserted portion giving four fields of different power within the lens.

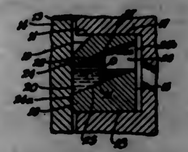
1,923,573

PISTON RING

Harry F. Gray, Brunswick, and Charles Wensel, Cleveland, Ohio, assignors to The International Piston Ring Company, Cleveland, Ohio, a Corporation of Ohio

Continuation of application Serial No. 622,926, July 16, 1932. This application May 4, 1933. Serial No. 669,318

3 Claims. (Cl. 309—45)



1. A piston ring having spaced inner and outer peripheral faces and spaced normally upper and lower side faces extending between the inner and outer peripheral faces, the outer peripheral face having formed therein an outwardly opening annular groove, the groove having a bottom face located between the inner and outer peripheral faces and normally upper and lower side faces extending between the bottom face and the outer peripheral face, the outer peripheral face including a substantial peripheral lip zone at each side of the groove, and the ring having formed therein a plurality of by-pass apertures extending between the bottom face of the groove and the inner peripheral face, the entrance opening of each by-pass aperture in the groove bottom face being located adjacent the groove upper side face and the exit opening of each by-pass aperture in the inner peripheral face being off-set from the groove lower side face in the direction of the upper side face of the ring.

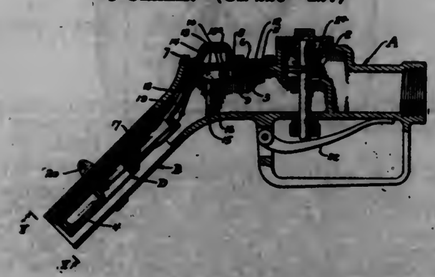
1,923,574

AUTOMATIC SHUT-OFF FOR FILLING SPOUTS

William A. Hansen, Des Palos, Calif.

Application February 16, 1932 Serial No. 593,276

5 Claims. (Cl. 226—127)



1. A device of the character described comprising a housing terminating in a filling spout, said spout and housing having a flow passage formed therein for the passage of a liquid, a valve pivotally mounted in the flow passage and adapted when closed to stop a liquid flow through the passage, spring actuated means normally maintaining the valve in an open position and on a slight angle with relation to the direction of liquid flow through the passage so that the flow of liquid will act to maintain the valve in open position, a float in the spout and a connection between the float and the valve whereby movement of the float in one direction is transmitted to swing the valve about its pivot to an angular position opposite to that normally assumed when opened so that the flowing liquid may act on the valve to swing the same to a closed position.

1,923,575

CHANGEABLE DISPLAY DEVICE

Nathan A. Karlin, Brooklyn, N. Y., assignor to Cabad Corporation of America, a Corporation of New York

Application December 5, 1931 Serial No. 579,143

25 Claims. (Cl. 40—36)



1. In a device of the character described, a first set of plates, a second similar set of plates, reinforced edge portions on said plates, a stationary channel-shaped stop of less height than that of said reinforced portions arranged between and engaging the adjacent ends of said sets of plates, means for transferring a plate from one set to the other including rack and gear means for moving said plate past said other set, and yieldable stop means including a slotted plate adjacent the remote ends of each set for urging said sets toward each other and against the stop for aligning the plates.

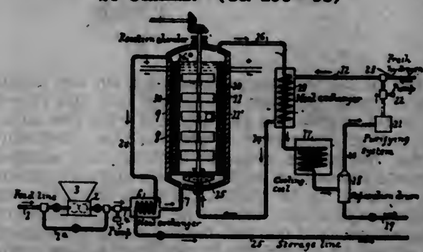
1,923,576

CONVERSION OF SOLID FUELS AND PRODUCTS DERIVED THEREFROM OR OTHER MATERIALS INTO VALUABLE LIQUIDS

Carl Krauch, Ludwigshafen-on-the-Rhine, and Mathias Pier, Heidelberg, Germany, assignors, by mesne assignments, to Standard-I. G. Company, Linden, N. J., a Corporation of Delaware

Original application February 6, 1926, Serial No. 86,646, and in Germany February 14, 1925. Divided and this application April 7, 1927. Serial No. 181,885

26 Claims. (Cl. 196—53)



1. The process of destructively hydrogenizing distillable carbonaceous substances of the nature of solid and liquid fuels, distillation and extraction products thereof into valuable liquids of different molecular weight which comprises treating them with hydrogen in the presence of an added solid catalyst containing a polyvalent metal and sulphur at a temperature sufficient to promote the conversion, and under a pressure of at least 20 atmospheres.

1,923,577

COLLAR STAY

Ben B. Manaster, Chicago, Ill.

Application December 12, 1932 Serial No. 646,900

7 Claims. (Cl. 24—87)



1. A collar stay comprising a collar engaging member, a spiral member having one end portion connected to said collar engaging member, a leg member having an end portion rotatably operable in the convolutions of the spiral member and having its opposite end portion provided with a collar penetrating point.

1,923,578

CIRCUIT CLOSER FOR MOTOR VEHICLES

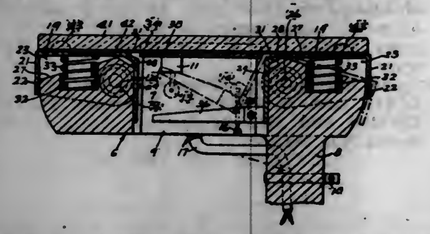
Rikuji Fred Murakami, Santa Barbara, Calif.

Application March 2, 1931. Serial No. 519,725

3 Claims. (Cl. 200—59)

1. A switch mechanism comprising a pedal frame forming the foot plate of an operating

pedal of a vehicle, said pedal frame having a recess therein intermediate its ends, stationary contacts disposed on opposite sides of the recess being insulated from the pedal frame, and connected to various electric circuits of the vehicle; a depressible member pivoted over each end of the pedal frame so as to be movable downwardly, the ends of the pedal frame being cut away to allow the movement of said members; resilient means on the cut away ends of the pedal frame to urge the said members into alignment with



the top of the casing, an extension on the inside edge of each member extending into the recess and being urged into engagement with the adjacent wall of the recess to prevent the movement of the respective member beyond the aligned positions thereof; a contact blade on each extension adapted to be contacted with the adjacent stationary contacts when the adjacent member is depressed, said contact blades being connected to a source of electricity to selectively close various circuits of the vehicle thru the said contacts.

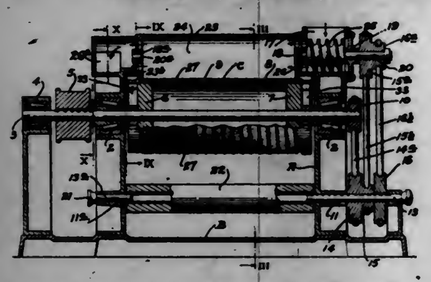
1,923,579

DELINTER

Warren L. Nahm, Oakland, Calif.

Application April 25, 1930. Serial No. 447,215

12 Claims. (Cl. 19—43)



1. In a cotton seed de-linting machine, a cylinder, a flexible strip wound helically about the cylinder and secured at opposite ends thereof, and an abrasive material carried by the strip and arranged to present successive areas of varying coarseness.

1,923,580

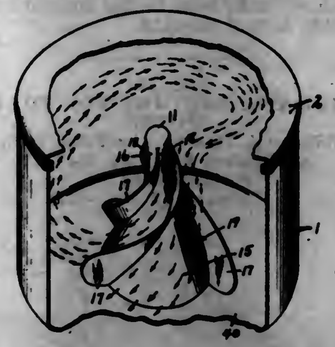
METHOD AND APPARATUS FOR WASHING CLOTHES

Jabez Curry Nelson, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse N. Y., a Corporation of Delaware

Application April 15, 1933. Serial No. 666,338

31 Claims. (Cl. 68—15)

1. The method of washing clothes which comprises immersing a body of clothes in a vat containing washing fluid, creating violently flowing well-defined currents of fluid advancing around the vat in one general circulatory direction and defining a cycle of operation, said currents including two successive substantially spiral paths of fluid movement in different directions, and separating and flexing the clothes as they move during said cycle of operation whereby to secure a more uniform and thorough washing action.



9. In a machine for washing clothes, a vat, an upstanding oscillatable agitator mounted therein, means for oscillating said agitator, said agitator including means configurated so as to circulate fluid and clothes around the vat in one general circulatory direction responsive to the operation of the agitator.

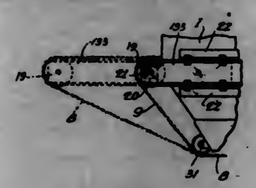
1,923,581

LEER

Frank T. Nesbitt, Alton, Ill., assignor, by mesne assignments, to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio

Application March 7, 1927. Serial No. 173,269

6 Claims. (Cl. 49—47)



1. A glassware annealing leer comprising an annealing chamber having a ware receiving opening at one end, a conveyor extending through the chamber and outwardly beyond said receiving opening providing a moving platform exterior to the chamber, and means for varying the spaced relation between said receiving opening and the opposite end of the platform to thereby correspondingly vary the period of time during which glass articles placed on said platform are exposed to the atmosphere for natural cooling prior to their entering the chamber.

1,923,582

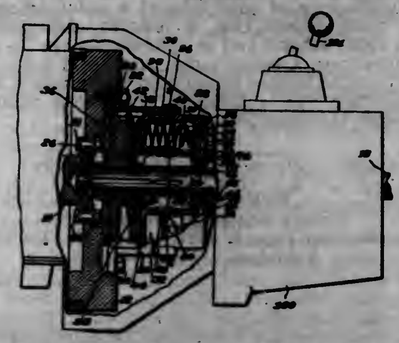
POWER TRANSMITTING MECHANISM

Frank Pulsifer, Salem, Mass.

Application March 25, 1930. Serial No. 438,763

18 Claims. (Cl. 192—59)

1. In a hydraulic clutch, one or more cylinders having outlet ports, a shaft for rotating said cylinders, a second shaft adapted to be driven by the first shaft, and a member rotated by said second shaft and movable by the centrifugal force thereof for closing said ports.



1,923,583

PRODUCTION OF LIQUID UNSATURATED HYDROCARBONS OF HIGH MOLECULAR WEIGHT

Wilhelm Pungs, Ludwigshafen-on-the-Rhine, and Hans Rabe, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application August 10, 1931, Serial No. 556,318, and in Germany August 23, 1930

9 Claims. (Cl. 260—170)

1. A process for the conversion of an olefine of low molecular weight into liquid olefinic hydrocarbons of higher molecular weight which comprises contacting said olefine in the gaseous phase, at an elevated temperature below 300° C. and for a duration of from 0.5 to 100 seconds with a solid mass comprising an inorganic anhydrous halide which becomes gaseous only at a temperature between 100° and 800° C.

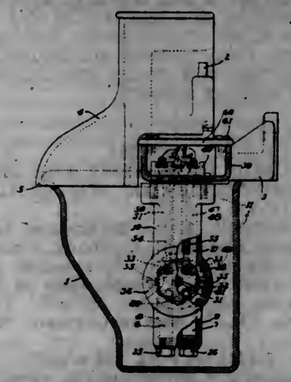
1,923,584

THERMOSTATIC WAX POT

Eugene J. Ray, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey

Application April 19, 1929. Serial No. 356,475

7 Claims. (Cl. 219—44)



1. A wax pot for wax thread sewing machines having, in combination, a receptacle for the wax, means for guiding the thread through the receptacle, an electrical heating unit within the receptacle, a housing to exclude the wax from contact with said heating unit, and a thermostatic circuit breaker included within said housing and in close proximity to said heating unit to receive heat directly from the latter and control the electric current energizing the heating unit.

1,923,585

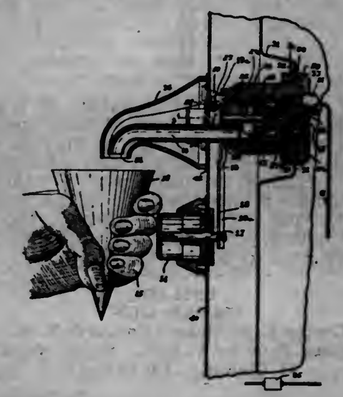
DISPENSING FAUCET

Donald H. Reeves, Dayton, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a Corporation of Delaware

Application July 20, 1932. Serial No. 623,549

4 Claims. (Cl. 225—23)

1. A faucet for beverages, drinking water, or the like comprising a discharge nozzle, a liquid supply line for said nozzle, a valve for controlling the flow of liquid from said line to said nozzle, and an actuating member for said valve, said



actuating member having a portion positioned below said nozzle at such a distance and positioned with respect to said nozzle that said portion may be actuated by the hand while holding a cup in a natural manner below said nozzle in a position to receive the flow of liquid from said nozzle without danger of spilling.

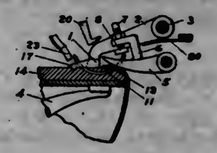
1,923,586

SEWING MACHINE

Fred Ricks, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey

Application February 19, 1931, Serial No. 516,901, and in Great Britain March 8, 1930

11 Claims. (Cl. 112—60)



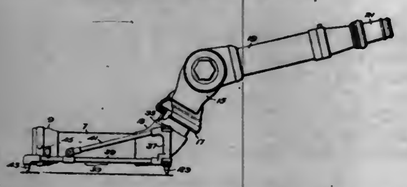
1. In a machine for sewing to the sole of a shoe an upper which has been overturned upon the surface of the sole, the combination with a curved hook needle arranged to pass through the upper into the sole and emerge from the surface of the sole, of a presser arranged to bear against the surface of the sole between the lines of stitches formed where the needle enters and emerges from the work, a looper, and a thread finger arranged to engage the thread between the looper and the work and to draw a bight of thread across the presser.

1,923,587
CONFECTION AND METHOD OF MAKING THE SAME
John F. Robb, Cleveland Heights, Ohio, assignor to Good Humor Corporation of America, Cleveland, Ohio
Application April 27, 1931. Serial No. 533,301
15 Claims. (Cl. 99—8)



1. As a new article of manufacture, a frozen confection comprising a body of edible substance fluid at normal temperature, a shell in which said body is received, formed with a hollow projection extending inwardly into the said body, and a handle member received in the said hollow projection and bonded solely to the walls of said hollow projection, the said shell being relatively hard at normal temperature.

1,923,588
WATER GUN
George E. Robinson, Concord, N. H.
Application January 7, 1929. Serial No. 330,856
14 Claims. (Cl. 299—73)



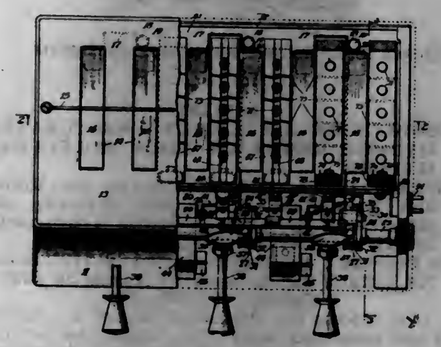
1. A water gun comprising a pipe having a horizontal portion terminating in an elbow, a monitor carried by said elbow and legs pivotally associated with said pipe adjacent the elbow and adapted alternatively to lie adjacent said horizontal portion or swing outwardly therefrom substantially in the plane thereof to provide in cooperation with said horizontal portion a base of considerable area to support the monitor on the upstanding end of the elbow.

1,923,589
AGITATING PLUNGER COCK
Sarantis G. Rousseas, Hempstead, N. Y.
Application July 30, 1932. Serial No. 626,533
3 Claims. (Cl. 225—23)



1. A plunger cock of the character described, comprising a tube having closed ends, one of which is adapted to be projected into the liquid to be dispensed, and the other of which is adapted to project outside the container of said liquid, a series of perforations around the circumference of said tube at a point adjacent the inner closed end, a plunger arranged in said tube, behind and in spaced relation to said perforations, a liquid outlet from said tube, behind and in spaced relation to said plunger, and a plunger rod extending from said plunger through the outer end of said tube.

1,923,590
BREAD TOASTER
Robert Schlemm, Chicago, Ill.
Application June 2, 1927. Serial No. 196,071
5 Claims. (Cl. 219—19)



1. A toaster comprising heating means; a slice support movable into and out of toasting position in said heating means; a manually operable lever for moving said support into toasting position; a spring for moving said support out of toasting position; a spring held trigger mechanism for locking said support in toasting position; a swinging trip arm arranged to engage said trigger mechanism for releasing said slice support; a cam rotatably adjustable on said lever, the radial dimension of which varies progressively, said cam cooperating with said trip arm to engage and swing the same through varying angles; motor spring mechanism operatively connected to said trip arm, whereby turning movement of said trip arm by said cam will energize said motor mechanism and said energized motor when released will return said trip arm to operate said trigger mechanism to release said toasting support.

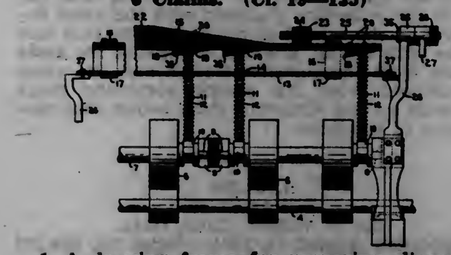
1,923,591
PROCESS FOR IMPROVING THE MECHANICAL PROPERTIES OF MAGNESIUM AND ITS ALLOYS
Walther Schmidt, Hans Bothmann, and Josef Ruhrmann, Bitterfeld, Germany, assignors, by mesne assignments, to Magnesium Development Corporation, a Corporation of Delaware
No Drawing. Application March 10, 1930, Serial No. 434,820, and in Germany March 11, 1929
6 Claims. (Cl. 148—21.3)

1. A process for improving the yield strength in compression, the yield strength in torsion, and the fatigue limit of technically pure magnesium, which comprises extruding such magnesium at a temperature of about 450° C. and at a speed, measured along the section issuing from the die, of about 5 mms. per second.

1,923,592
PROCESS FOR IMPROVING THE MECHANICAL PROPERTIES OF MAGNESIUM AND ITS ALLOYS
Walther Schmidt and Hans Bothmann, Bitterfeld, and Josef Ruhrmann, Berlin-Tempelhof, Germany, assignors, by mesne assignments, to Magnesium Development Corporation, a Corporation of Delaware
No Drawing. Original application March 10, 1930, Serial No. 434,820, and in Germany March 11, 1929. Divided and this application March 1, 1932. Serial No. 596,152
9 Claims. (Cl. 148—21.3)

1. A process for improving the compressive limit, the torsional limit, and the fatigue limit of magnesium and high percentage magnesium alloys, which comprises extruding such metals at temperatures between about 200° and about 500° C. and quenching such metals coincidentally with the ceasing of the effect, on the metal, of the forces causing such extrusion to a temperature at which the structure of the metal remains unaltered with respect to the size and orientation of the individual crystals.

1,923,593
DRAWING FRAME DRAFT ROLL SPRING TENSION ADJUSTMENT
Walter M. Spring, Springvale, Maine, assignor to Sanford Mills, Sanford, Maine, a Corporation of Maine
Application May 2, 1931. Serial No. 534,487
6 Claims. (Cl. 19—135)



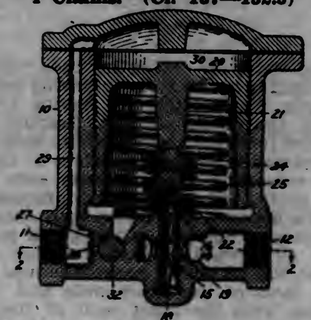
1. A drawing frame for preparing slivers to be spun comprising a supporting frame, feed rolls, a driven draft roll rotatably mounted in and extending throughout the length of the frame, a plurality of pressure rolls mounted on short shafts which are in turn loosely mounted in the frame to permit rotation and bodily movement toward the draft roll, of the pressure rolls, a plurality of spring actuated pressure inducing members acting yieldingly to move the pressure rolls into engagement with the draft roll, cams cooperating respectively with the spring-actuated pressure-inducing members, independent means for independently adjusting each of said cams to adjust independently the pressure exerted by each pressure inducing means, and means operable to move the said cams simultaneously and uniformly thereby to adjust, release, or restore the pressure exerted by each pressure-inducing member simultaneously and uniformly.

1,923,594
PROCESS FOR PRODUCING ANHYDROUS NONVOLATILE METAL CHLORIDES
Robert Suchy, Karl Staib, and Wilhelm Meschel, Bitterfeld, Germany, assignors, by mesne assignments, to Magnesium Development Corporation, a Corporation of Delaware
No Drawing. Application April 23, 1929, Serial No. 357,494, and in Germany April 24, 1928
2 Claims. (Cl. 23—91)

1. A process for producing anhydrous nonvolatile metal chlorides substantially free from impurities, and particularly from oxidic compounds, which comprises substantially completely converting an oxidic compound of said metal to the chloride in the solid state by treating briquettes formed of a mixture of said oxidic compound and a carbonaceous material having a porosity sufficient to accommodate the increase in volume caused by such conversion, with a hot gaseous chlorinating agent at a temperature below the melting point of the metal chloride, fusing said chlorinated product by the combined heat of reaction and sensible heat of the chlorinating agent and further chlorinating said fused product by passing it through a heated porous bed counter-current to a rising stream of hot chlorinating gas.

2. A process for producing anhydrous magnesium chloride substantially free from impurities, and particularly from magnesium oxide, which comprises substantially completely converting magnesium oxide to the chloride in the solid state by treating briquettes formed of a mixture of said magnesium oxide and a carbonaceous material having a porosity sufficient to accommodate the increase in volume caused by such conversion, with hot chlorine gas at a temperature below the melting point of the metal chloride, fusing said chlorinated product by the combined heat of reaction and sensible heat of the chlorine and further chlorinating said fused product by passing it through a heated porous bed counter-current to a rising stream of hot chlorine gas.

1,923,595
CONTROL MECHANISM
Paul C. Temple, Decatur, Ill., assignor to A. W. Cash Company, Decatur, Ill., a Corporation of Delaware
Application May 14, 1930. Serial No. 452,434
4 Claims. (Cl. 137—152.5)

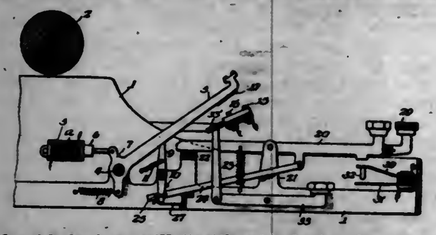


1. A fluid flow control mechanism comprising a casing having an inlet and an outlet, a valve slidably mounted in the casing to control the rate of flow therethrough, a partition in the casing between the inlet and the outlet and provided with an orifice, a piston slidably mounted in the casing which contacts with and is arranged to move the valve, said piston being subjected to the fluid pressure drop across the orifice, a spring arranged to oppose movement of the piston in response to an increase in said fluid pressure drop, and a second spring arranged to hold the valve in contact with the piston for actuation thereby.

1,923,596
IMPRINTING MACHINE
Harry L. Vanderwerp, Highland Park, Ill.
Application February 23, 1932. Serial No. 594,565
9 Claims. (Cl. 197—13)

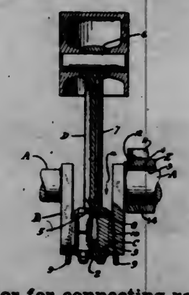
1. In mechanism of the type specified, the

combination of a plurality of movably supported devices, separate operating means therefor, respectively, and means controlling said operating means, the relation being such that manipulation of the control means associated with one



of said devices will "set" said device for operation, and subsequent manipulation of the control means associated with another device, will cause the operating means of said "set" device to function.

1,923,597
BEARING LUBRICATOR
Clinton L. Walker, Piedmont, Calif.
Application April 17, 1931. Serial No. 530,854
6 Claims. (Cl. 184—11)



1. A lubricator for connecting rods comprising in combination a crank shaft having webs and a crank pin, a connecting rod having a bearing embracing the crank pin, said bearing having an oil outlet formed intermediate its ends, helical grooves formed in the inner surface of the bearing and extending from opposite ends of the bearing to the oil outlet, said grooves being pitched in opposite directions with relation to the direction of rotation of the crank pin so as to force oil inwardly from the ends of the bearing to the oil outlet, pockets formed on the adjacent faces of the crank webs and in communication with the outer ends of the helical grooves, and splash actuated means for delivering oil to said pockets.

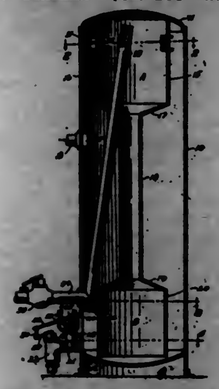
1,923,598
SEPARATOR
Jay P. Walker, Tulsa, Okla., assignor, by mesne assignments, of fifty-four per cent to Jay P. Walker, forty per cent to Guy O. Marchant, and six per cent to C. G. Wells, Tulsa, Okla.
Application July 16, 1931. Serial No. 551,198
9 Claims. (Cl. 183—2.7)

1. In a separator, an upright tank, having an influent inlet, a primary separating chamber at the upper end of said tank and a collection chamber below also in said tank, a scrubbing baffle in said primary chamber, a liquid conductor leading from the said primary chamber to said collection chamber, a conductor for carrying the gaseous fluids from the baffle to the collection chamber, and means for carrying gases from the collection chamber.



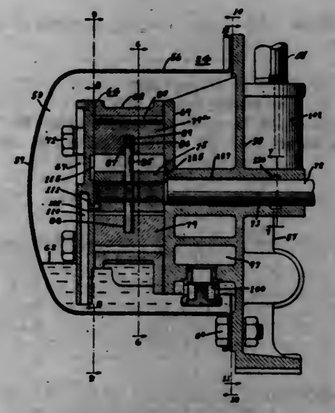
5. The method of separating oil and gas which consists in primarily separating the oil and gas in a separate chamber, then flowing the oil by gravity to a collection chamber to reduce it to a quiescent state, at the same time scrubbing the gaseous fluids and conducting them to the oil collection chamber free from contact with the oil, scrubbing the gaseous fluids in the collection chamber, carrying off the gases rising from the oil in the collecting chamber with the gases delivered to the said chamber without mixing said gases with the oil, and finally passing the gases rising from the collected liquids and the gases discharged from the second scrubbing stage through a third scrubbing stage before final discharge of the same.

1,923,599
SEPARATOR
Jay P. Walker, Tulsa, Okla.
Application August 31, 1931. Serial No. 560,327
7 Claims. (Cl. 183—2.7)



6. In an oil and gas separator, an upright tank having a high pressure receiving section intermediate its top and bottom provided with an inlet for receiving an oil and gas mixture and for primarily separating said mixture, a low pressure scrubbing chamber in the top of the tank having an inlet for receiving gaseous fluids from the receiving section, a gas discharge pipe leading from the scrubbing chamber to the exterior of the tank, a low pressure oil collecting chamber at the bottom of the tank having a normally submerged inlet from the receiving section of the tank, a drain pipe extending axially from the scrubbing chamber through the receiving chamber to the top of the collecting chamber of sufficient cross-sectional area to afford a free upward passage for the rising gaseous fluids and a free downward passage for draining liquids, and means for carrying off oil from the collecting chamber.

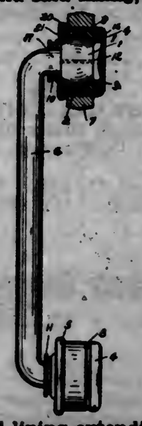
1,923,600
GAS PRODUCING APPARATUS
Clarence Warner, Dayton, Ohio, assignor to Delco-Light Company, Rochester, N. Y., a Corporation of Delaware
Application May 30, 1930. Serial No. 457,588
5 Claims. (Cl. 230—207)



1. In a compressor, the combination with a casing having inlet and outlet ports and forming a reservoir for lubricant and a compressed fluid storage space, of a housing within said casing having a fluid inlet communicating with said casing inlet, and compressing means within said housing having outlet means for discharging the compressed fluid within said casing below the level of lubricant in said reservoir, a check valve in said outlet means for maintaining said casing under compression pressure and said inlet port under suction pressure, said housing being provided with a lubricant passage below the level of lubricant and leading to said compressing means, the pressure in said casing forcing lubricant to said compressing means during the operation of said means, said compressing means having a rotary lubricant transferring pocket operable with said compressing means and forming a seal to prevent the flow of lubricant through said passage during periods of idleness of the compressing means.

1,923,601
NONMETALLIC CONNECTION
Elverton W. Weaver, Cleveland Heights, Ohio, assignor to The Columbia Axle Company, Cleveland, Ohio, a Corporation of Ohio
Application May 16, 1930. Serial No. 452,976
3 Claims. (Cl. 287—90)

1. A joint comprising a ball, a socket, a soft compressible lining therefor, and a bearing element, said bearing element being interposed between said ball and said lining, said ball having



a shank, and said lining extending outwardly to form a collar about said shank.

1,923,602
TAG AND ATTACHING MEANS THEREFOR
Samuel Weiss, Brooklyn, N. Y.
Application May 11, 1933. Serial No. 670,452
2 Claims. (Cl. 40—25)



2. The combination of a tag and an attaching means secured thereto, said means comprising an originally lyre-shaped staple having parts of the legs at the narrow portion of said staple repeatedly threaded through the tag, the enlarged portion of the staple at the base thereof being bent over the tag through an angle of substantially 180 degrees, and the ends of the legs at the other end of the staple being bent transversely to the surface of the tag, thereby forming a pair of connecting branches thereon.

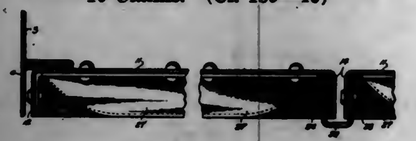
1,923,603
ELEVATOR
Lenna R. Winslow, Miami, Fla.
Application October 16, 1931. Serial No. 569,365
16 Claims. (Cl. 187—16)



1. An elevator including separate shafts, separate cages movable upwardly in one shaft and

downwardly in the other shaft, cage transfer means at the ends of the shafts, and means detachably engaged by the cages for counterbalancing the cages.

1,923,604
FREIGHT CAR CONTAINER
Graham C. Woodruff, Bronxville, N. Y., assignor to The L. C. L. Corporation, a Corporation of Delaware
Application August 21, 1931. Serial No. 558,587
10 Claims. (Cl. 189—46)



1. A less than car load lots container having door openings, a combined container corner and door post for said openings, and a door hinged to said combined post.

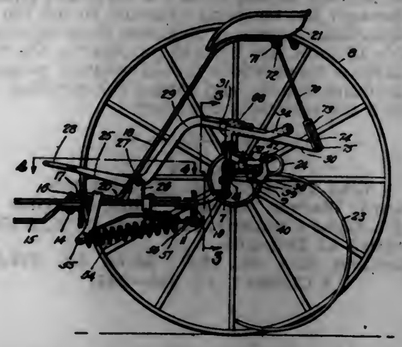
1,923,605
WINDOW CONSTRUCTION
Ulrich Anderson, Madison, Wis.
Application December 1, 1931. Serial No. 578,357
9 Claims. (Cl. 20—45)



1. In combination with a window casing, upper and lower sashes; upper and lower guide frames for the sashes, said sashes being slidable in said frames, each of said frames being pivoted at its lower end to said casing; and a connector pivotally secured to the upper ends of said frames whereby the frames are swung in parallel relation.

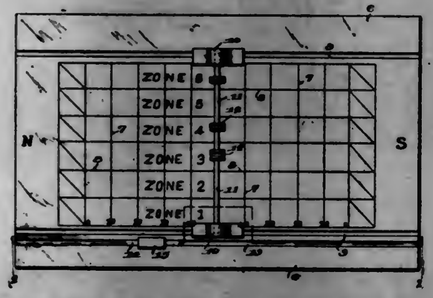
1,923,606
HAY RAKE
Anthony B. Avilla and Joseph B. Avilla, Woodland, Calif.
Application November 18, 1932
Serial No. 643,280
11 Claims. (Cl. 56—378)

1. A hay rake of the character described, comprising a wheeled frame, a series of rake teeth carried by the wheeled frame, means for tilting the wheeled frame and raising the rake teeth, and means operable by the weight of the driver on the operator's seat of the hay rake



for holding the rake in its ground engaging position.

1,923,607
FOOTBALL GAME
Leonidas H. Barringer, Charleston, W. Va.
Application July 11, 1931. Serial No. 550,190
6 Claims. (Cl. 273—94)

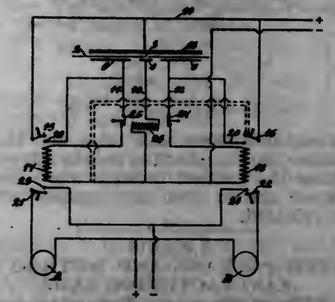


5. In a foot-ball game, a board provided with a diagram thereon to represent a foot-ball field having transverse lines indicating distances gained or lost, and longitudinal lines dividing the field into parallel longitudinal zones, supports slidably mounted on the board to move longitudinally, a shaft carried by said supports and extending transversely across the field, and disks representing players slidably mounted on the shaft and movable into any zone.

1,923,608
PROCESS FOR THE PREPARATION OF ALIPHATIC SULPHOACIDS
Heinrich Bertsch, Chemnitz, Germany, assignor to H. Th. Böhme Aktiengesellschaft, Chemnitz, Germany, a Corporation of Germany
No Drawing. Application October 10, 1928, Serial 311,713, and in Germany October 11, 1927
3 Claims. (Cl. 87—12)

1. Process for the preparation of aliphatic sulpho-acids distinguished by the treatment of an unsaturated aliphatic acid substance of higher molecular weight with the exception of unsaturated aliphatic oxy-compounds with sulphuric acid in the presence of not considerably more than one molecular weight of an anhydrous organic acid radical compound per one double linkage of fatty acid molecule.

1,923,609
MECHANISM FOR FEEDING PAPER AND LIKE WEBS
Horace Drummond Black, Uxbridge, England, assignor to Bell Punch Company Limited, Uxbridge, England
Application May 11, 1931, Serial No. 536,577, and in Great Britain July 26, 1930
10 Claims. (Cl. 271—2.6)



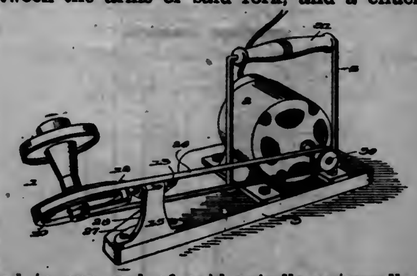
1. A control system of the kind referred to for the feeding in register of a web having registration indications provided at regular intervals along the length thereof, which comprises at least one device responsive to errors in registration of said indications and adapted to be operatively connected to a feed regulating mechanism for the web and arranged upon one responsive actuation to set the feed regulating mechanism in continuous operation and a further device responsive solely to correct registration of said indications and adapted to control the first said device and thereby terminate any operation of said feed regulating mechanism then in progress, for the purpose described.

1,923,610
PROCESS FOR OXIDIZING GASEOUS HYDROCARBONS
Joseph E. Bludworth, Eastland, Tex., assignor to Hanlon-Buchanan, Inc., Tulsa, Okla.
Application December 24, 1930
Serial No. 504,630
4 Claims. (Cl. 260—156)

1. A process for the manufacture of a mixture containing methanol, acetone and acetaldehyde which comprises combining a saturated hydrocarbon gas with a suitable oxidizing gas having the oxidizing characteristics of air, compressing said mixture and passing the same through an elongated passageway of restricted cross section, heating the mixture as it flows through the passageway to between 450° and 900° F. to cause partial oxidation of the hydrocarbon gas, introducing into the mixture as it flows through said passageway and before it has been heated to the maximum degree, an oxidizing gas having the oxidizing characteristics of air, then cooling the mixture to effect condensation of a portion thereof, collecting the condensate, and cycling continuously a portion of the uncondensed gases and vapors for admixture with the combined fresh saturated hydrocarbon gas and an oxidizing gas.

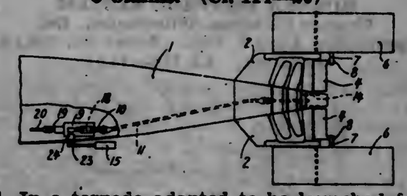
1,923,611
TURNING MACHINE
Harry Bozarth, Muskogee, Okla.
Application July 14, 1928. Serial No. 292,711
5 Claims. (Cl. 51—237)

1. A portable universal purpose turning machine comprising, in combination, a base 3, adapted to be carried by a handle 4 and having mounted thereon power driving means 2 and a standard 15, a fork 12 horizontally supported by said standard and adapted to be adjustably positioned therein by means of a threaded tang 13 and nuts 14, a spindle 6 carried transversely by said fork, a pulley 10 fixed to said spindle between the arms of said fork, and a chuck 5



fixed to one end of said spindle externally of said fork, said chuck comprising an axial body, a circumferential steadying disk 22 and a flaring work-receiving socket 18 open at the end opposite said spindle 6.

1,923,612
TORPEDO FOR LAUNCHING FROM A FLYING MACHINE
Johan Andreas Bull, Horten, Norway
Application June 26, 1931, Serial No. 547,109, and in Norway March 23, 1931
8 Claims. (Cl. 114—20)

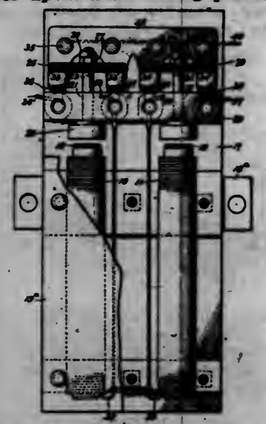


1. In a torpedo adapted to be launched from aircraft into the water, the combination with the torpedo body, of a rudder for steering the body in a vertical plane during the fall through the air, means for temporarily supporting the rudder on the body, said means being releasable upon entering the water, mechanism for imparting steering movement to the rudder to maintain the longitudinal axis of the body in a predetermined angular relation with a tangent to the normal direction of fall of the body through the air, a controlling fin supported for free movement to a position in alignment with the instantaneous direction of movement of the body, and adjustable connections between said fin and said mechanism, whereby the angular position of the fin may be varied to alter the aforesaid predetermined angular relation.

1,923,613
SWITCH
Leonard R. Carley, Watertown, and Reid B. Scott, Waterbury, Conn., and Horace L. Allen, New York, N. Y.
Original application August 27, 1929, Serial No. 388,668. Divided and this application August 2, 1930. Serial No. 472,690
2 Claims. (Cl. 200—87)

1. A magnetic switch for warning signals, including a support, means extending from the support for holding slidable plungers, slidable plungers in said means and each plunger adapted to be actuated by a magnetic coil, electric contacts, flexible circuit-carrying fingers secured to said support and extending downwardly and outwardly and slightly upwardly at their

outer ends and positioned directly above said respective electric contacts, each of said plungers provided with an adjustable cross-head resting on the outer upward extending portions of two



of said flexible fingers and forcing the outwardly extending portion of said fingers downwardly against their respective electric contacts when said plunger is actuated.

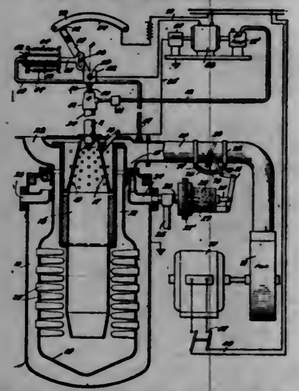
1,923,614

BURNER CONTROL SYSTEM

Thomas Clarkson, Wilmington, Del.

Application April 6, 1931. Serial No. 528,194

9 Claims. (Cl. 158—45.5)



3. Control mechanism for an oil burner supplied with oil by an electric motor driven pump and with air under pressure, comprising a valve for controlling the quantity of oil delivered by the burner, means responsive to the pressure of said air to actuate said valve to control the quantity of oil, a switch to start the oil pump motor and means associating said switch and pressure responsive means to close the switch only after predetermined air pressure is available at the burner.

1,923,615

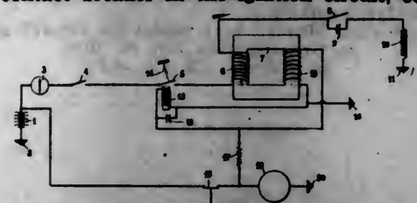
BATTERY IGNITION DEVICE

Wladimir de Fligué and Paul Lavallée, Paris, France

Application December 17, 1931, Serial No. 581,710, and in France December 19, 1930

6 Claims. (Cl. 123—146.5)

1. A battery ignition device comprising a feeding battery, an igntion circuit fed by said battery, an electro-magnetic relay, a transformer, the primary of said transformer being mounted in series on the ignition circuit while its secondary is connected with the winding of said relay, a contact breaker in the ignition circuit, con-



necting means between said relay and said contact breaker, said connecting means being adapted to close the contact breaker when the relay is energized and to open said contact when the relay is released.

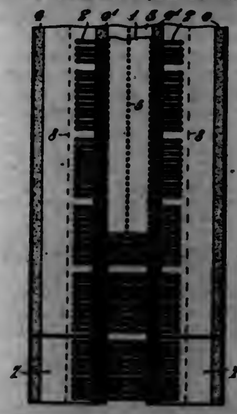
1,923,616

MATCH PACKAGE AND METHOD OF MANUFACTURING SAME

Paul Wilhelm Dietmann, Jonkoping, Sweden

Application September 9, 1931, Serial No. 561,951, and in Sweden September 27, 1930

12 Claims. (Cl. 93—3)



1. A match package, comprising in combination a row of matches and a common envelope of sheet material having tongues projecting therefrom and formed integrally therewith, the matches being pasted to said tongues.

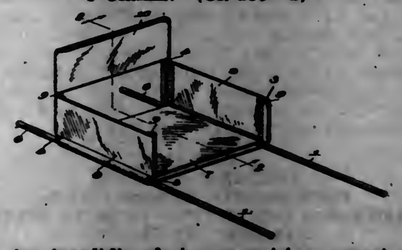
1,923,617

INVALID'S CHAIR

Alice S. Edensword, Santa Barbara, Calif.

Application September 7, 1932. Serial No. 632,020

3 Claims. (Cl. 155—1)



1. An invalid's chair comprising a pair of handle bars, spaced apart uprights secured to each handle bar, a flexible seat connected to said handle bars, a flexible side connected to the spaced uprights of each bar and a flexible back connected at one end to an upright on one of said bars and being connected to an upright on the other bar.

1,923,618

PREPARATION OF AMINO DERIVATIVES OF THE ANTHRAQUINONE SERIES

Philip H. Groggins, Washington, D. C., dedicated to the free use of the public, of and within the United States of America

No Drawing. Application July 30, 1932 Serial No. 627,116

13 Claims. (Cl. 260—60)

(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

2. The process which comprises heating a halogeno-anthraqinone with aqueous ammonia in an autoclave under pressure in the presence of an oxyhalogen compound.

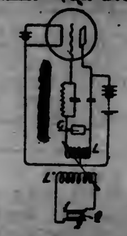
1,923,619

PROCESS FOR ELECTROOPTICAL REGISTER OF SOUNDS OR ANY OTHER ELASTIC WARES

Alexis Guerbilsky, Paris, France

Application May 23, 1931, Serial No. 539,606, and in France May 24, 1930

4 Claims. (Cl. 179—100.2)



1. A device for the electro-optical registering of elastic waves, and in particular of sounds which comprises, an electric circuit, a source of high frequency current in said circuit, means for varying the intensity of the current in said circuit that are sensitive to the action of said elastic waves, a piezo-electric crystal of nonuniform thickness in the direction of its electric axis coupled with said circuit, and optical means adapted to cooperate with said crystal.

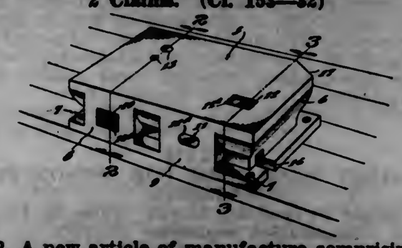
1,923,620

BENCH BLOCK

Albert T. Harland, Detroit, Mich., assignor to The Cincinnati Tool Company, Norwood, Ohio, a Corporation of Ohio

Application July 30, 1930. Serial No. 471,848

2 Claims. (Cl. 153—32)



2. A new article of manufacture comprising a one-piece metal block of rectangular form, said block having a flat full dimension working top surface and including a cored interior, the sides of said rectangular block being partially undercut to provide attaching flanges at the base of said block, the portions of said sides not undercut including socket holes, the mouths of which have varying contours for bending pipe on various radii, the top of said block adapted to include punch-holes, and the cored interior adapted to receive the punchings.

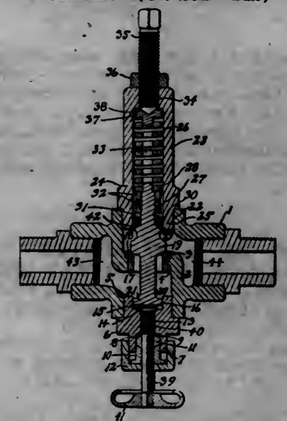
1,923,621

CUSHIONED RELIEF AND CHECK VALVE

Frank Henneböhle, Chicago, Ill.

Application December 10, 1931 Serial No. 581,476

2 Claims. (Cl. 251—142)



1. A cushioned relief and check valve, comprising a casing having an inlet and an outlet for fluid and having a partition between the same, the partition itself having a threaded passage, a hardened metal valve seat bushing threaded into the threaded passage and having a valve seat, said casing having a threaded opening at each side of the said partition, the axes of which openings coincide with that of said bushing, one of the said threaded openings being at the inlet side of the valve and the other being at the outlet side of the same, a plug in said threaded opening at the inlet side having a valve guide-way, a threaded passage at its inner end having a valve seat and having a packed gland at its outer end, a valve lifter comprising a stem having a threaded portion to fit said last named threaded passage and having a smooth portion extending through said gland and having a valve head to engage said last named valve seat, a knob on said extended portion of said stem, a hardened metal piston valve having a head portion with a face to engage the seat of said bushing and having a stem projecting through said bushing and terminating in a guide disc which lies in said valve guide-way, and a relief spring device secured in the aforesaid threaded opening at the outlet side of said valve casing and cooperating with said piston valve for the purposes described.

1,923,622

ARTIFICIAL LEATHER MANUFACTURE

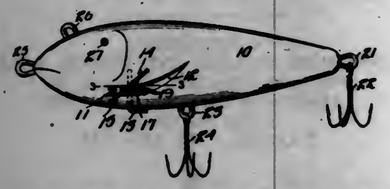
Roger B. Hill, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine

No Drawing. Application January 16, 1929 Serial No. 333,026

2 Claims. (Cl. 91—68)

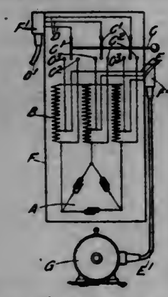
1. A process which comprises impregnating a web of fibers with latex containing a vegetable tanning agent and concentrated waste sulphite liquor.

1,923,623
FISH LURE
Clyde C. Hoage, Tower, Minn.
Application May 2, 1932. Serial No. 608,781
6 Claims. (Cl. 43—46)



1. An artificial fish lure comprising a body portion having a slot extending therethrough near the head end, a pin extending upwardly through said slot, fins mounted on said pin adapted to be moved back and forth, and resilient means mounted around said pin tending to hold said fins in a forward position, substantially as set forth.

1,923,624
CONTROL OF ALTERNATING CURRENT MOTORS AND THEIR SUPPLY CIRCUITS
Arnold Henry Human, Newbury, England, assignor to Electrical Improvements Limited, Newcastle-upon-Tyne, England
Application November 13, 1931, Serial No. 574,893, and in Great Britain November 21, 1930
7 Claims. (Cl. 172—233)



7. In apparatus for the control of an A. C. circuit supplying current to an electric motor, the combination of a condenser for improving the power factor of the circuit, a transformer, connections from the transformer to the A. C. supply circuit, the motor and the condenser, and switching means for controlling the transformer connections whereby the transformer is utilized to supply a reduced voltage to the motor during starting thereof and also to supply to the condenser a voltage different from that of the A. C. supply circuit during normal running of the motor.

1,923,625
TYPEWRITING AND MULTIPLE-COPYING PROCESS
Harry Jackson, Prestwich, Manchester, England, assignor to Imperial Chemical Industries Limited, London, England
No Drawing. Application July 11, 1932, Serial No. 622,015, and in Great Britain July 14, 1931
14 Claims. (Cl. 101—149)

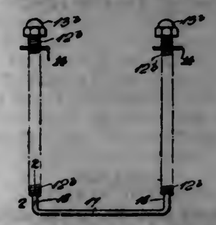
1. In an improved method of producing non-fading indicia using inks containing basic dyestuffs, the step which comprises impregnating the copy paper with a solution of an inorganic hetero-poly-ocid comprising within the molecule an element of the class consisting of phosphorus and silicon and a metal of the class consisting of molybdenum and tungsten.

1,923,626
WATCH CLEANING MACHINE
Morris Klein, Aliquippa, Pa.
Application January 23, 1932. Serial No. 588,477
4 Claims. (Cl. 141—1)



3. In a device of the character described, an open mesh basket, a cover for said basket, guard members secured to said basket and extending around said basket in spaced relation thereto, and means for causing said basket to rotate.

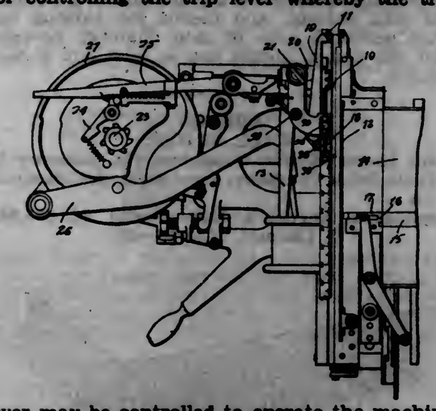
1,923,627
FLEXIBLE POST FILE BINDER
Frederick L. Kneeland, Olympia, Wash.
Application September 16, 1932
Serial No. 633,509
2 Claims. (Cl. 129—23)



1. A file binder comprising two parallel coiled springs for passage through openings in a plurality of sheets, a U-shaped wire abutment having one of its ends inserted into and held by the lower end of one of said springs, and its other end inserted into and held by the lower end of the other of said springs, and abutment means removably engaged with the upper ends of the two springs.

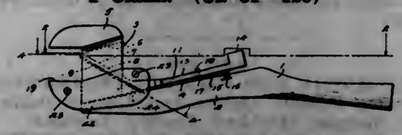
1,923,628
GALLEY MECHANISM FOR MONOTYPE MACHINES
Frank J. Lemieux, Central Falls, R. I.
Application September 13, 1932
Serial No. 632,963
8 Claims. (Cl. 199—95)

1. The combination with a type casting, composing and setting up machine having a type channel-way, a galley support, a type channel block and a trip lever mechanism, of a means operable by the movements of the type in the channel-way pivoted to the type channel block for controlling the trip lever whereby the trip



lever may be controlled to operate the machine at predetermined intervals.

1,923,629
WRENCH
Carl H. Leonard, Wayne County, Nebr.
Application November 21, 1931
Serial No. 576,585
1 Claim. (Cl. 81—128)



A wrench comprising a handle having an elongated shank, an arm forming an integral extension of said shank and disposed transversely thereof, a jaw formed integral with the free end of said arm, said arm having a passage therethrough directed longitudinally of the shank, a jaw slidably carried on the arm and having a portion disposed transversely thereof upon the side opposite the jaws and constituting a cam follower, a body slidably disposed in said passage and having an integral arm extending along one face of the shank, said body having one edge arranged at an oblique angle to the arm portion thereof and constituting a cam, said cam having engagement with said follower, a recess formed in the side of said body and having a wall surface paralleling said cam edge, a member carried by the shiftable jaw body and engaging said recess wall surface, said body arm having a longitudinal passage therethrough and having the upper surface thereof provided with transversely extending teeth, a post carried by the shank and extending through said slot and having a lateral extension upon its upper end arranged for engagement with said teeth, and spring means disposed beneath the body arm and normally lifting the same toward the lateral extension of said post.

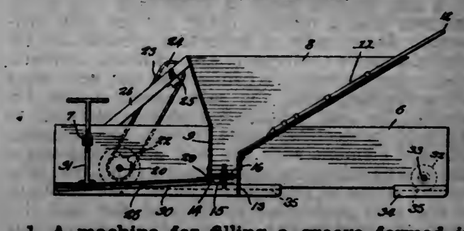
1,923,630
TREATMENT OF HYDROCARBONS
Cloyd D. Looker and Ernest B. Kester, Nitro, W. Va., Henry B. Hass, La Fayette, Ind., and Wayne Z. Friend, South Sudbury, Mass., assignors to The Baltimore Gas Engineering Corporation, a Corporation of Maryland
No Drawing. Application February 27, 1930
Serial No. 431,954
10 Claims. (Cl. 260—116)

1. The process of prducing hydrocarbon derivatives comprising treating a paraffin hydrocarbon in the liquid phase with an oxyhalide of nitrogen, without the presence of sufficient light to materially affect the reaction, the reaction being carried out at a temperature above 20° C. but below the point where decomposition of the reaction products begins.

1,923,631
MANUFACTURE OF SHOE STIFFENERS
Stanley P. Lovell, Newton, Mass., assignor to Arden Box Toe Company, Watertown, Mass., a Corporation of Massachusetts
No Drawing. Application October 9, 1931
Serial No. 567,991
6 Claims. (Cl. 91—70)

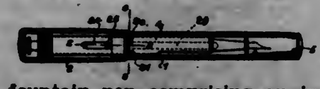
1. A shoe stiffener comprising a bibulous fibrous foundation carrying a continuous phase of stiffening, water-insoluble colloid capable of being gelatinized by a non-aqueous solvent, said phase of colloid having a promiscuously striated and pitted texture conducive to a rapid action of the gelatinizing solvent thereupon.

1,923,632
HIGHWAY MARKER
Peter C. MacRae and Robert C. Thomasson, Seattle, Wash.
Application November 16, 1931
Serial No. 575,312
7 Claims. (Cl. 94—45)



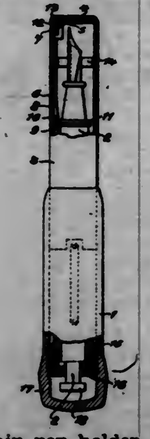
1. A machine for filling a groove formed in a road surface, with plastic material in the formation of a traffic line, comprising a body portion, flanges extended below the lower edges of the body portion and fitted within the groove, guiding the body portion as the body portion moves along the groove, a hopper for feeding material to the groove, and a pivoted spreader carried by the body portion and movable over the material fed from the hopper, for spreading and packing the material into the groove.

1,923,633
FOUNTAIN PEN
Robert Peter Markstein, Vienna, Austria
Original application July 9, 1929, Serial No. 376,972, and in Austria March 23, 1929. Divided and this application January 7, 1932. Serial No. 585,344
3 Claims. (Cl. 120—49)



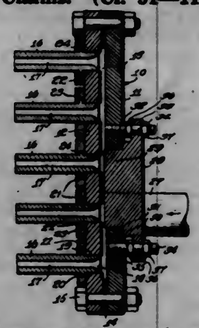
1. A fountain pen comprising an inner shell forming a nib carrier, an outer shell at the outer end of the inner shell and spaced therefrom, said inner shell having a longitudinally arranged stop spring, free to move outwardly at its end nearest the nib, and a protecting shell slidably mounted between the inner and outer shells and having a stop shoulder at its inner end, engageable directly by the free end of the spring tongue to lock said protecting shell when the same is drawn outwardly to enclose and protect the nib.

1,923,634
FOUNTAIN PEN HOLDER
Robert Peter Markstein, Vienna, Austria
Application April 28, 1932, Serial No. 608,072, and in Austria April 29, 1931
11 Claims. (Cl. 120—49)



1. In a fountain pen holder, the combination of a pen holder body, a protecting sleeve for the pen and a rocking cover for the said protecting sleeve, with an actuating mechanism for the said cover comprising an actuating element, means for operatively connecting the said actuating element with the said cover, means for moving the said actuating element relatively to the said protecting sleeve, means for engaging the said element with the said protecting sleeve and disengaging the said element from said protecting sleeve at predetermined relative positions of the said protecting sleeve and the said element, the said means for operatively connecting the said actuating element with the said cover being adapted to force the said cover into the entire periphery of the mouth of the said protecting sleeve and to rock the said cover around a point of the periphery of the mouth of the said protecting sleeve.

1,923,635
ABRASIVE BLASTING NOZZLE
Harold E. McCrery, Apollo, Pa., assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa., a Corporation of New Jersey
Application September 27, 1928
Serial No. 308,673
9 Claims. (Cl. 51—11)



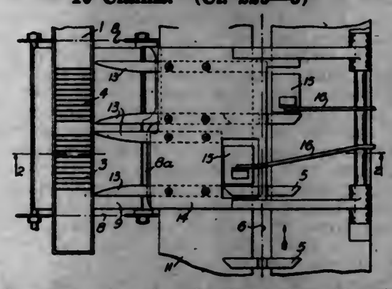
1. A device of the character described comprising a chamber, a plurality of nozzles communicating at one end with said chamber, means for supplying abrasive to said chamber against one wall thereof, and means for varying the cross sectional area of said chamber between said last named means and at least one of said nozzles.

1,923,636
FACE BRICK
John Easter Minter, Columbus, Ga., assignor to Dixie Brick Company, Incorporated, Columbus, Ga.
Application August 4, 1931. Serial No. 555,067
2 Claims. (Cl. 72—36)



1. A textured brick having its face formed throughout with a series of scale-like portions all pointing in the direction of one end of the brick with recesses between the scales having their axes vertically disposed so as to drain away water.

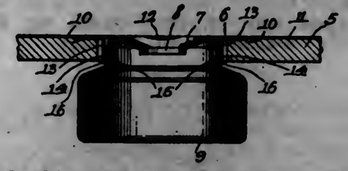
1,923,637
MACHINERY FOR PACKING CIGARETTES
Walter Everett Molins and George Daniel Horgan, Deptford, London, England
Application June 2, 1931, Serial No. 541,676, and in Great Britain June 2, 1930
10 Claims. (Cl. 226—5)



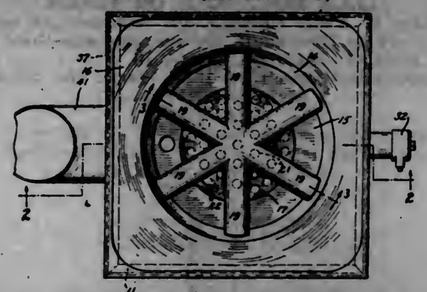
1. In apparatus for feeding cigarettes to a double pocket carton adapted to receive two batches of cigarettes, the combination with means for moving a row of cartons through a predetermined path with the pockets of each carton aligned transversely of the row, and means for simultaneously feeding batches of cigarettes to each of two successive cartons in the row.

1,923,638
ASH TRAY
Thomas R. Moss, Dyersburg, Tenn.
Application January 25, 1932. Serial No. 588,720
1 Claim. (Cl. 45—75)

An ash tray for positioning in an opening formed in a supporting surface, comprising in combination a supporting section and a body portion, said supporting section having a depending flange formed with an outwardly flared lower end and having inwardly extended bosses disposed above the flared lower end, an upstanding neck on the body portion formed with a reduced upper end, and defining an annular shoulder at a point where the reduced upper end portion merges with the main portion of the upstanding neck of the body portion, and the outer surface of the neck having curved grooves extending through the annular shoulder, and adapted to accommodate the bosses, removably securing the body portion to the supporting section, and said annular shoulder cooperating with the bosses in guiding the body portion into position on the supporting section.



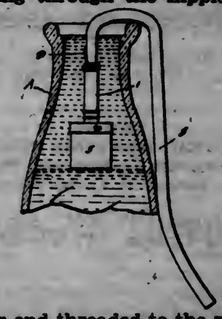
1,923,639
LIQUID HEATING APPARATUS
Henry W. O'Dowd, Jersey City, N. J., assignor to Standard Gas Equipment Corporation, a Corporation of Maryland
Application January 24, 1930. Serial No. 422,977
4 Claims. (Cl. 126—345)



1. A deep fat frying apparatus comprising a substantially cylindrical open top vessel for containing a liquid cooking medium, said vessel having a raised conical bottom portion forming a heating chamber, the wall of the vessel and the wall of the raised conical bottom portion forming therebetween with the bottom of the vessel a sediment chamber, a plurality of open-ended heat-distributing flues disposed radially within the vessel and having their open ends passing through the side walls of the vessel and through said raised conical bottom portion, and a gas burner for generating heat within said conical bottom portion, the heat-distributing flues being substantially circular in cross section and having their upper sides substantially flush with the apex of the conical bottom of the vessel and their lower sides located substantially above the bottom of the vessel, whereby a heated cooking zone will be established above said heating chamber and a cooler zone be established within the sediment chamber.

1,923,640
CREAM REMOVER
Warren R. Peel, Lincoln, Nebr.
Application June 10, 1932. Serial No. 616,547
1 Claim. (Cl. 137—20)

Means for withdrawing cream collecting at the top of a receptacle containing milk comprising a cup-shaped member adapted to be placed in the cream with its bottom located adjacent the lower level of the cream, said member having its upper end open and its bottom formed with a nipple located in the member and opening out through the bottom, and said bottom having a hole therein located to one side of the nipple, a slip-on cap removably covering the top of the member and having an upstanding nipple thereon in alignment with the first mentioned nipple, a vertically arranged pipe having an intermediate portion passing through the nipple of the cap



with its lower end threaded to the nipple on the bottom of the member, whereby the pipe and the cap can be removed from the member, said pipe having an enlarged opening or openings therein located immediately below the cap and of sufficient size to overcome the surface tension of the liquid set up in the tube at said hole or holes and a bent tube having one end removably connected with the upper end of the pipe.

1,923,641
LOW VISCOSITY CELLULOSE FIBER AND PROCESS OF PRODUCING THE SAME
George A. Richter, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine
No Drawing. Application July 17, 1928
Serial No. 293,503
17 Claims. (Cl. 260—100)

1. A process which comprises treating cellulose fiber of the nature of cotton and pre-liberated wood pulp with permanganate solution, removing colored reaction products, and digesting the fiber in alkaline solution.

1,923,642
CLEANER FOR ARTICLES OF METAL
Otto Roth, Jr., Bad Ems, Germany
Application August 23, 1932, Serial No. 630,072, and in Germany March 24, 1930
1 Claim. (Cl. 204—7)

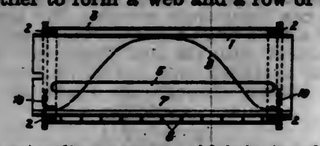


A method which comprises wrapping a solid body in an electro-negative metal foil, said solid body being capable of forming an electrolyte, and subsequently dissolving said solid in water to form a bath and using said foil as a source of electronegative metal in the bath for the cleaning of metal surfaces.

1,923,643
WOOD WOOL COVERING
Heinrich Schneider and Karl Schneider, Kahl-on-the-Main, Germany, assignors to E. Merck, Darmstadt, Germany, a firm of Germany
Application August 2, 1928, Serial No. 297,036, and in Germany August 10, 1927
3 Claims. (Cl. 154—54)

1. As a new article of manufacture, a protec-

tive covering consisting of loose, short intertangled filaments compactly arranged and matted together to form a web and a row of binding



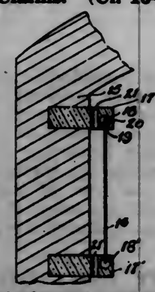
stitches extending across said intertangled filaments and said web and holding the filaments in place.

1,923,644

ELECTRIC HEATING FURNACE

George L. Simpson, Coraopolis, Pa., assignor to Pittsburgh Research Corporation, Pittsburgh, Pa.

Application January 11, 1932. Serial No. 585,994
35 Claims. (Cl. 13—25)



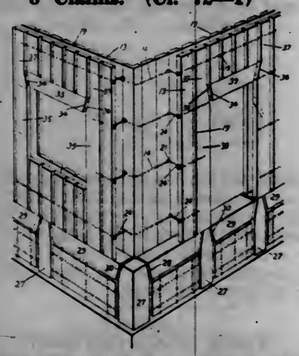
1. In an electric furnace, a resistor plate, means extending inwardly from the wall of the furnace to support said plate in spaced substantially parallel relation to said wall and to maintain the plate out of contact with the furnace wall and charge, said plate being free to expand and contract, and means whereby the heat from the side of the plate facing the furnace wall may be utilized to heat the furnace charge.

1,923,645

CONCRETE SLAB STRUCTURE

John William Thompson, Stanmore, near Sydney, New South Wales, Australia

Application May 28, 1930, Serial No. 456,647, and in Australia May 28, 1929
8 Claims. (Cl. 72—1)



1. A precast building slab formed with longitudinal edges entirely splayed transversely to form an open space between the vertical edges at the obverse of the slabs when their edges at the reverse are butted, and embedded reinforcing members projecting from said splayed edges and securable together in said open space.

1,923,646

COVER FOR BOOKS, BINDERS, OR SIMILAR ARTICLES

Clarence D. Trussell, Poughkeepsie, N. Y., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y., a Corporation of New York

Application May 20, 1932. Serial No. 612,411
3 Claims. (Cl. 129—24)



1. A cover for a book, binder, or similar article, comprising a back portion and side portions connected therewith by means of hinge-like joints, the cover being formed along such joints with external ridges forming a recess in the back portion, an outer back plate of stiff material set in and approximately filling the space between said ridges, and fastening means clamping said plate to the back portion of the cover.

1,923,647

LOCK BOLT, NUT, OR SCREW

John F. Vera, Chicago, Ill., assignor of one-third to Howard H. Osborn, and one-third to Allen W. Mathis, Chicago, Ill.

Application March 18, 1931. Serial No. 523,483
3 Claims. (Cl. 151—37)



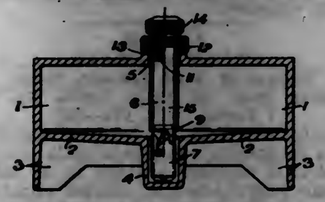
1. A device of the kind described, embodying a nut like body having an integral continuous dished resilient flange spaced from the bottom thereof and provided with teeth on its underface, said flange being enlarged at its periphery when the nut like body is screwed home to remove the dish with resulting internal tensile stresses to press the teeth into a presented surface.

1,923,648

CONTAINER FOR INK

George Stewart Vivian, Norbury, London, England, assignor of one-half to T. B. Ford Limited, Loudwater, England

Application May 21, 1932, Serial No. 612,800, and in Great Britain December 2, 1931
14 Claims. (Cl. 120—4)



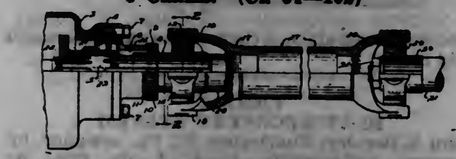
1. In an ink container a chamber, a well-like depression in the base of the chamber, an aperture in the top of the chamber aligned with said depression, a tubular pen guide fitted into said aperture, said guide being open at its upper end and closed at its lower end, said lower end fitting into said depression, an aperture in the side of the guide for the admission of ink into the lower end of the guide and a ledge formed in the guide above said aperture adapted to constitute an abutment for the nib section receiving end of the pen.

1,923,649

POWER TRANSMITTING MECHANISM

Archibald A. Warner, Royal Oak, Mich., assignor to The Universal Products Co. Inc., a Corporation of Delaware

Application October 31, 1932. Serial No. 640,431
6 Claims. (Cl. 64—102)



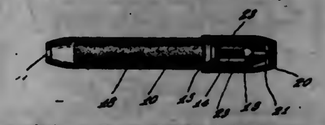
1. The combination of a housing, a driving shaft protruding from said housing, a sleeve axially slidable and non-rotatably mounted on said protruding end, an oil seal closing the space between said sleeve and housing, and a universal joint carried on said sleeve with the center line of said joint inward from the end of said shaft.

1,923,650

INHALER

Granville G. Westerfield, Indianapolis, Ind.

Application July 20, 1931. Serial No. 551,827
3 Claims. (Cl. 128—200)



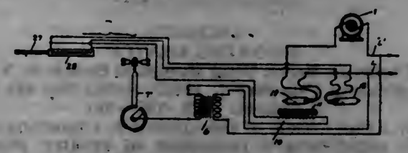
1. A container for volatile inhalants comprising a tubular body having a tapered end provided with an opening, a hollow plug in the other end of said body, a restricted opening in said plug, a valve sealing such restricted opening, and a cap fitting said tapered end in sealing relationship and said plugged end in nonsealing relationship and having means to open said valve when placed over said plugged end.

1,923,651

CONTROL MECHANISM FOR ELECTRICALLY OPERATED LIQUID FUEL BURNERS

Walter W. Williams, Bloomington, Ill., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill., a Corporation of Illinois

Original application October 3, 1928, Serial No. 310,159. Divided and this application January 6, 1932. Serial No. 587,060
1 Claim. (Cl. 158—28)



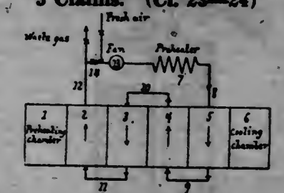
In a control for an electrically operated liquid fuel burning device including a motor and a fuel line to the source of supply, the combination with a normally open motor switch and a normally closed fuel valve in the fuel line, of temperature actuated mechanism adapted to operate the said switch and valve having electrical heating elements adjacent thereto, a control switch in circuit with said heating elements, and a normally closed switch in a shunt circuit about the heating element for operating the fuel valve mechanism carried upon the mechanism for operating the motor switch, whereby, upon closing the control switch the heating element for the valve is shunted out and the heating element for the switch mechanism is energized causing the motor switch to be closed and the shunt switch to be opened, thereby starting the motor and energizing the heating element to operate the mechanism to open the fuel valve after the motor is in operation, and upon opening the control switch to return the switches and valve to normal position.

1,923,652

RECOVERY OF MOLYBDENUM

Karl Winkler and Walter Kroenig, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

Application August 27, 1930, Serial No. 478,111, and in Germany September 27, 1929
5 Claims. (Cl. 23—24)



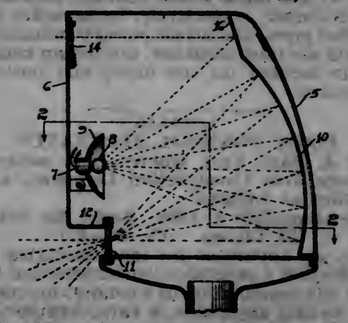
1. A process for the recovery of molybdic acid from a mixture comprising molybdenum and another metal which comprises roasting the said mixture by treatment with a gas comprising oxygen at a temperature not exceeding 600° C., treating the roasted mixture containing the molybdenum in the form of its oxides with aqueous ammonia, the molybdenum oxides thereby being dissolved with the formation of ammonium molybdate, and then precipitating from the said solution molybdic acid by the addition of an acid agent.

1,923,653

HEADLIGHT

Thomas H. Ambrose and Edwin J. Eimer, Monroe, Mich., assignors of one-fourth to James E. Brailey and one-fourth to Clarence E. La Beau, Toledo, Ohio

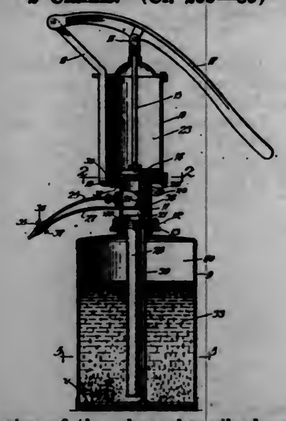
Application February 8, 1932. Serial No. 591,578
1 Claim. (Cl. 240—41.1)



A headlight comprising a casing with an opaque front wall, a light source behind said front wall, a glass pane in the front wall below

the light source, lenses of different colors in the front wall above the light source, means for projecting the greater proportion of the light rays forwardly and downwardly through said pane, a shield connected with said front wall precluding upward dispersion of rays thus projected, and means for projecting a smaller proportion of the light rays forwardly through said colored lenses.

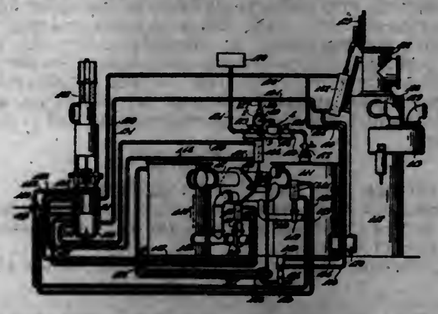
1,923,654
SPRAYING MECHANISM
Alfred C. Andreasen, Oak Park, Ill., assignor to Air Way Pump Company, Chicago, Ill., a Corporation of Illinois
Application March 22, 1930. Serial No. 438,005
2 Claims. (Cl. 299—89)



1. A device of the class described, comprising a liquid containing receptacle having an annularly flanged opening at the top thereof, a housing having a flanged end portion for attachement to the flange of said receptacle, said housing being provided with a liquid outlet chamber, a tubular member connected to said outlet chamber and extending downwardly within liquid in said receptacle, said housing being provided with an air inlet chamber, a tubular member connected to said air inlet chamber and extending downwardly parallel with and adjacent to said first mentioned tubular member within liquid in said receptacle, a perforated air distributor at the lower end of said second mentioned tubular member and disposed within liquid in said receptacle near the bottom thereof, said housing being provided with an air outlet chamber communicating with said receptacle, a discharge nozzle connected to said liquid outlet chamber and said air outlet chamber, respectively, by separate valve-controlled pipes, and an air pump communicating with said air inlet chamber, said pump being detachably secured on the upper end portion of said housing.

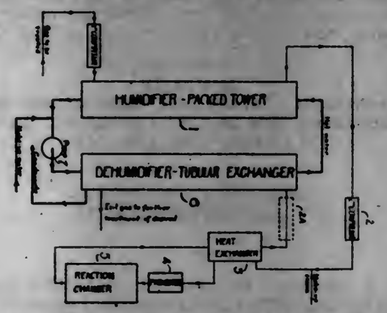
1,923,655
FLOW CONTROL APPARATUS
Walter A. Barr, Fort Wayne, Ind., assignor to Western Gas Construction Company, a Corporation of Indiana
Application July 9, 1928. Serial No. 291,309
12 Claims. (Cl. 48—83)

11. In an apparatus for manufacturing water gas, including a generator, carbureter and superheater: the combination of a conduit for conducting oil to said apparatus, a valve located in said conduit, a meter in said conduit, means for opening said valve to admit oil to the apparatus, and automatic means responsive to the amount of oil passing through said meter for closing said valve and interrupting the supply of oil when a



predetermined amount thereof has passed through said meter.

1,923,656
HEAT RECOVERY SYSTEM
John S. Beckley, Charleston, W. Va., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware
Application December 8, 1930. Serial No. 500,825
9 Claims. (Cl. 23—212)

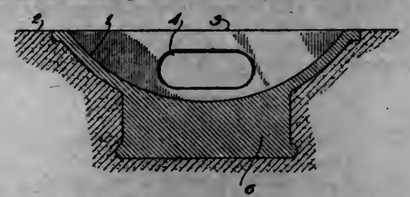


1. In a process for the recovery of heat from gases containing water vapor employing humidification and dehumidification the steps which comprise compressing the gas in two stages, the first stage prior to humidification, the second stage between humidification and dehumidification.

9. In a process employing humidification and dehumidification in the preparation of hydrogen by the interaction of a hydrocarbon and steam in the presence of a catalyst at elevated pressure, the steps which comprise initially compressing the hydrocarbon to a pressure of from 10–30 atmospheres prior to humidification and increasing the pressure of the hydrocarbon and steam by 2–4 atmospheres above its initial pressure between humidification and dehumidification.

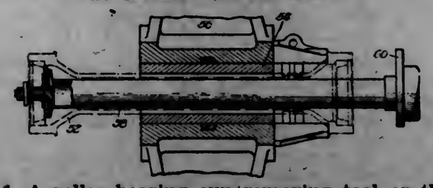
1,923,657
MOORING DEVICE
Lucius H. Beers, West Hampton Beach, N. Y.
Application February 7, 1931. Serial No. 514,981
8 Claims. (Cl. 189—96)

4. As an article of manufacture, a mooring device comprising a receptacle of greater length than depth formed to be embedded in a pavement with its rim flush with the surface thereof and containing a mooring element also substantially flush with the pavement surface, the space between said element and rim being narrow enough to avoid interference with the normal use of said pavement and the floor of said



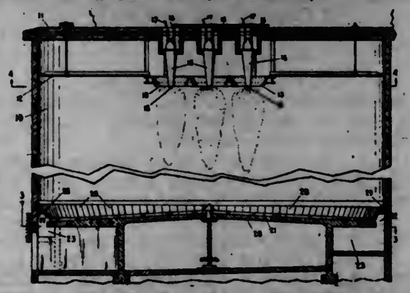
receptacle being sloped upwardly to the plane of the pavement.

1,923,658
TOOL
Jerome K. Blakeslee, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey
Application July 16, 1931. Serial No. 551,096
20 Claims. (Cl. 29—33.2)



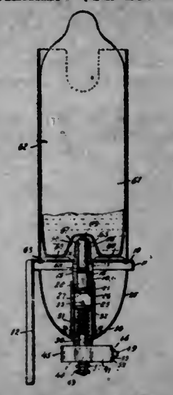
1. A roller bearing cup removing tool or the like, comprising relatively movable plate elements, a plurality of cup pushing plates interposed between said elements and movable in a plane substantially parallel to the plane of said elements, and means on one of said elements for moving said cup pushing plates outwardly beyond said elements and into a position for engagement with said cup.

1,923,659
DESICCATING APPARATUS
William Spencer Bowen, Westfield, N. J.
Application January 6, 1930. Serial No. 418,685
2 Claims. (Cl. 159—4)



1. Desiccating apparatus for solid-containing liquids, comprising a closed tower, spray-producing means located at the upper portion thereof for discharging the liquid in finely-divided condition into the tower, the said tower being provided at the top with an inlet orifice for a gaseous desiccating medium, a floor at the bottom of the tower to receive the desiccated product and having its circumference displaced from the tower wall to afford an annular outlet opening for the product, an outlet channel below the annular opening, and means connected with the channel for withdrawing the spent desiccating medium and all of the desiccated product through the said annular opening and channel.

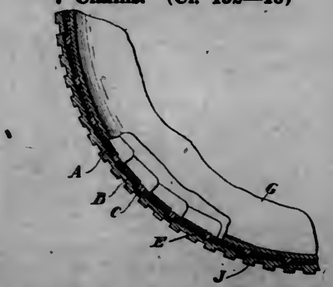
1,923,660
FIRE ALARM AND FIRE EXTINGUISHER DEVICE
Wilhelm B. Bronander, Montclair, N. J.
Application December 17, 1930
Serial No. 502,979
12 Claims. (Cl. 169—26)



1. A fire alarm device, a flanged supporting member, a cartridge support carried thereby, a sleeve adapted to be removably connected to the cartridge support, a cover member carried by the sleeve and adapted to coact with the flanged supporting member to enclose the cartridge support, said cartridge support having an outlet disposed within the cover member and flange, a hammer carried by the sleeve, a spring for actuating the hammer in a direction to fire the cartridge, and means including a fusible element for holding the hammer in retracted position.

3. A fire alarm device comprising a supporting member, a cartridge carried thereby, means on said supporting member for removably holding a frangible container, a frangible container carried by said holding means, said container being freely accessible for manual removal, means for firing the cartridge, means, separate from the cartridge but positioned for actuation by the explosion of the cartridge for breaking the frangible container and means for limiting the movement of said breaking means toward the container.

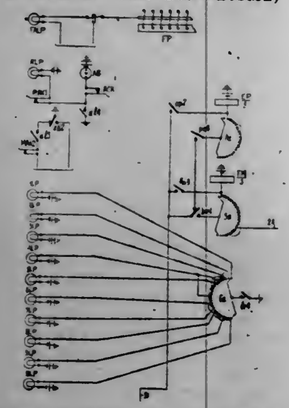
1,923,661
PUNCTUREPROOF TIRE
John Carey, New York, N. Y.
Application December 10, 1931
Serial No. 580,209
7 Claims. (Cl. 152—18)



1. A pneumatic tire having a puncture proof armor consisting of a rubber guide belt having oblong equally spaced integral projections on the outer surface thereof, a succession of similar metal plates shaped to the curvatures of the service section of the tire casing, each plate hav-

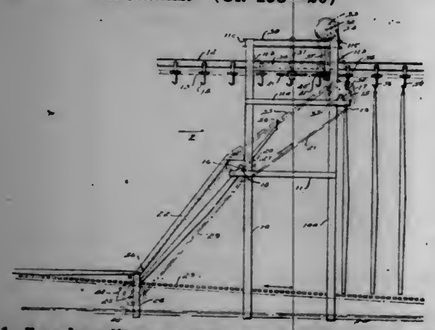
ing on the center line near one edge an oblong hole or opening corresponding in shape to said projection and adapted to be engaged therewith each plate overlying an adjacent plate and resting on the extended end of an adjacent projection.

1,923,662
TELEPHONE SYSTEM
Arthur Edward Caswell, Liverpool, England, assignor to Associated Telephone and Telegraph Company, Chicago, Ill., a Corporation of Delaware
Application February 12, 1932, Serial No. 592,462, and in Great Britain February 26, 1931
8 Claims. (Cl. 179—175.21)



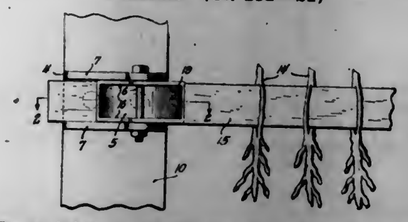
1. Testing apparatus for testing a selector switch of the type used in automatic telephone systems, which switch is arranged to transmit metering impulses in accordance with the position it is set in, said apparatus including means for transmitting impulses to set said switch in a position to transmit metering impulses, and means in said apparatus operated by said metering impulses to test for the correct transmission of said metering impulses.

1,923,663
MACHINERY FOR HANDLING CHASSIS FRAMES
Christopher F. Coda, Detroit, Mich., assignor to The Murray Corporation of America, a Corporation of Delaware
Application August 12, 1930. Serial No. 474,764
13 Claims. (Cl. 198—20)



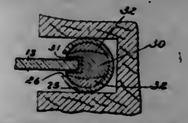
1. In a handling machine suitable for use in the delivery of chassis frame units supported on an upper conveyor for advancing said units in closely adjacent dependent series: a lower conveyor for advancing said units in a substantially end-to-end arrangement; means for operating said lower conveyor at a greater speed than said upper conveyor and intermediate means for lowering the end of said units on said lower conveyor which advances said end to dispose the unit in horizontal position as the upper end is lowered.

1,923,664
TOBACCO LATHE HOLDER
John G. Craig, Stoughton, Wis.
Application November 20, 1931
Serial No. 576,231
1 Claim. (Cl. 131—21)



In a tobacco lathe holder, the combination of a member having a base portion and side flanges forming a lathe receiving channel, means for clamping said member to a fixed support, a movable jaw of channel form having its web formed as a clamping face of substantially the width between said side flanges and curved eccentrically to its pivot to effect a clamping action of said jaw as said lathe is moved in one direction and a release of said jaw as the lathe is moved in the opposite direction, said web of said jaw having an extension for assisting in the initial engagement of said movable jaw with the lathe.

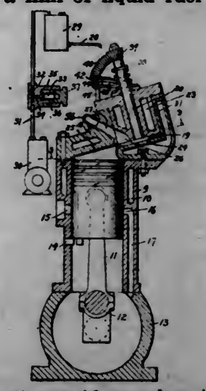
1,923,665
MOUNTING FOR SLIDING VEHICLE WINDOWS
Eric W. Ericson, Detroit, Mich., assignor to Dietrich, Incorporated, Detroit, Mich., a Corporation of Michigan
Application October 30, 1929. Serial No. 403,403
2 Claims. (Cl. 296—44.5)



1. The combination with a door having inwardly presented cylindrical window guide runs at the door edges, of a window slidable within said runs, a frame about said window having portions extending downwardly therefrom, and bearing elements on the sides of said downwardly extending portions of said frame forming cylinders therewith which are received by said guide runs to prevent the window from tilting in its plane of movement and laterally of said plane.

1,923,666
METHOD AND APPARATUS FOR FEEDING LIQUID FUEL TO INTERNAL COMBUSTION ENGINES
Louis O. French, Milwaukee, Wis.
Application April 15, 1929. Serial No. 355,268
14 Claims. (Cl. 123—32)

4. In an internal combustion engine, the combination with the combustion chamber, of a rotatable fuel delivery member, means for supplying liquid fuel to said member, means against which said member seats and cooperating therewith to form a film of liquid fuel thereon, and



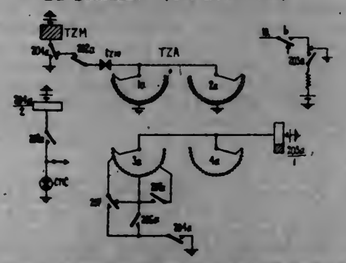
means for moving said member to expose the liquid fuel film thereon to the gases in said combustion chamber.

1,923,667
TWISTING DEVICE
George H. Gilligan, Providence, R. I., assignor to U. S. Ring Traveler Company, Providence, R. I., a Corporation of Rhode Island
Application February 2, 1933. Serial No. 654,843
10 Claims. (Cl. 118—59)



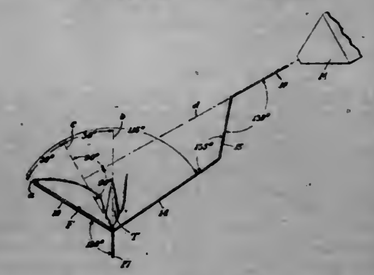
1. A traveler for spinning and twisting rings having a lower shank portion and an upwardly and rearwardly inclined upper shank portion, a foot upon the end of the lower shank portion, and a head upon the upper shank portion, said head provided with a transverse recess extending into the head from the inner face thereof.

1,923,668
TELEPHONE SYSTEM
Charles Gillings and Francis Tatlock Belas, Liverpool, England, assignors to Associated Telephone and Telegraph Company, Chicago, Ill., a Corporation of Delaware
Application June 8, 1931, Serial No. 542,714, and in Great Britain July 16, 1930
14 Claims. (Cl. 179—7.1)



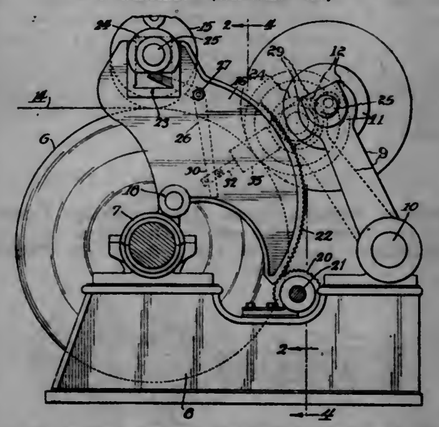
1. In a measured service telephone system wherein automatic switches are operated in accordance with dialled digits to set up and complete talking connections between subscribers' lines, a switch, a switch-bank and wipers for said switch, means for variably marking the switch bank of said switch in accordance with certain of the digits employed in setting up a connection, means for continuously operating the wipers of said switch during the talking period of an established connection to wipe over said switchbank, and means controlled by the operation of the wiper of said switch for transmitting a different number of metering impulses in accordance with each variable marking in said switchbank.

1,923,669
DENTAL X-RAY FOCUSING INSTRUMENT
Henry H. Harrison, New York, N. Y.
Application August 22, 1932. Serial No. 629,782
4 Claims. (Cl. 250—34)



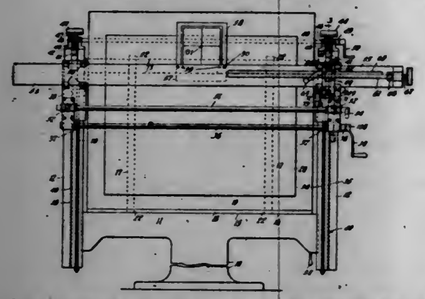
1. A dental film pack holder comprising an open triangular frame having hook clips at its apex and base, a rigid focusing arm reaching from the base of said frame at a definite angle thereto, and a stabilizer on said frame adjacent said arm.

1,923,670
PAPER MACHINE
Harold Bond Henson and Erik Ruben Johnson, Kapuskasing, Ontario, Canada
Application April 29, 1932, Serial No. 608,161, and in Canada September 19, 1931
7 Claims. (Cl. 242—65)



1. In a machine of the class described, the combination of a rotatable drum, a main reel holder for rotatably supporting a reel on which to wind a web of paper which passes over said drum, an auxiliary reel, and means for rotatably supporting said auxiliary reel in spaced relation to the web of paper passing over said drum while one end of the said reel remains in frictional contact with said drum.

1,923,671
COMPOSER PRINTING MACHINE
William C. Huebner, Chicago, Ill.
Application September 19, 1932
Serial No. 633,729
7 Claims. (Cl. 95—73)



1. In a machine of the character described, the combination with a base; of means for supporting a print-receiving element in position; a supporting member adapted to have a print-producing element attached thereto and retained in a relatively fixed relation with respect to said member; and means for adjusting said member with a print-producing element in fixed relation thereto, in two directions at right angles to each other in a plane parallel to the print-receiving element.

1,923,672
RECOVERY OF FURFURAL FROM FILTER CAKES CONTAINING IT
Alphons O. Jaeger, Mount Lebanon, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware
No Drawing. Application May 28, 1930
Serial No. 456,817
4 Claims. (Cl. 202—46)

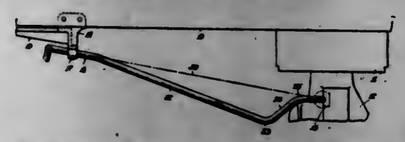
1. A method of recovering furfural solvent from a filter cake obtained by the purification of crude aromatic hydrocarbons by means of a solvent containing furfural, which comprises subjecting the cake to the action of a carrier vapor containing steam, condensing the vapors, decanting the furfural from the water layer, distilling the water layer containing the dissolved furfural and using the vapors from this distillation as at least part of the carrier vapors used in treating the filter cake.

1,923,673
SAFETY RAZOR
Thomas Pattullo Jones, Johannesburg, Transvaal, Union of South Africa
Application August 19, 1931. Serial No. 558,068
9 Claims. (Cl. 30—12)



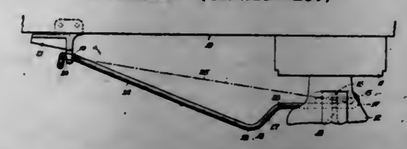
3. In a safety razor, in combination, a frame, a pair of blade-holding elements hingedly attached to said frame one at either end thereof, a razor blade carried by each element, the one blade being oppositely inclined relative to the other and the cutting edges being opposed, and means for simultaneously varying the inclination of the blade-holding elements including a right and left-hand screw-threaded spindle, nuts which traverse said spindle, and links connecting the nuts with the respective blade-holding elements, as set forth.

1,923,674
COUPLER MECHANISM
Edmund P. Kinne, Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey
Application October 29, 1928. Serial No. 315,625
3 Claims. (Cl. 213—167)



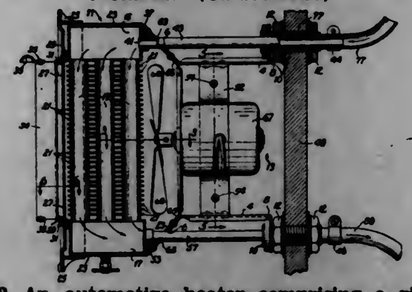
2. In coupler mechanism having a movable lock, the combination of a rotary member on the coupler for transmitting operating movements to the coupler lock, a bracket, and a handled operating rod supported by said bracket and extending to and directly connected to said rotary member for movement therewith to operate said coupler lock, said rod having an offset portion extending in an outboard direction and downwardly below the axis of rotation thereof through said bracket and rotary member providing an unbalanced condition in locked position of the coupler tending to prevent rotation of the operating rod which would release the coupler anti-creep and to return the handle to locked position, said downwardly extending part of said offset portion providing clearance whereby damage to the rod and associated mechanism is prevented in case of misalignment of adjacent couplers in coupling operation.

1,923,675
COUPLER MECHANISM
Edmund P. Kinne, Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey
Application October 29, 1928. Serial No. 315,626
3 Claims. (Cl. 213—167)



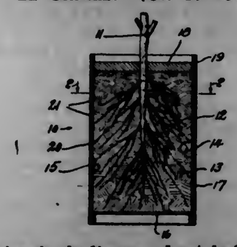
1. In coupler mechanism having a movable lock, the combination of a rotary member on the coupler for transmitting operating movements to the coupler lock, a bracket, and a handled operating rod non-translatably supported by said bracket and extending to and being slidably connected to said rotary member for movement therewith to operate said coupler lock, said rod having an offset portion extending in an outboard direction beyond and downwardly below the axis of rotation of said rod providing an unbalanced condition in operative position of the coupler tending to prevent rotation of the operating rod which would release the coupler anti-creep and to return the handle to locked position, said downwardly extending part of said offset portion providing clearance whereby damage to the rod and associated mechanism is prevented in case of misalignment of adjacent couplers in coupling operation.

1,923,676
AUTOMOTIVE HEATER
Benjamin Kirsch, Chicago, Ill., assignor to Auto Radiator Manufacturing Co., Chicago, Ill., a Corporation of Illinois
Application March 3, 1932. Serial No. 596,520
7 Claims. (Cl. 257—137)



2. An automotive heater comprising a rigid unit consisting of an upper and a lower header, water circulating tubes therebetween, inlet and outlet pipes attached thereto, a second rigid unit comprising supporting brackets, cradling means surrounding said headers, bushings rigidly attached to the brackets and surrounding said inlet and outlet pipes but being separated from said pipes, and means for attaching said bushings to the portion of the vehicle carrying the heater, and flexible hoses attached to the inlet and outlet pipes and being positioned between said pipes and said bushings respectively.

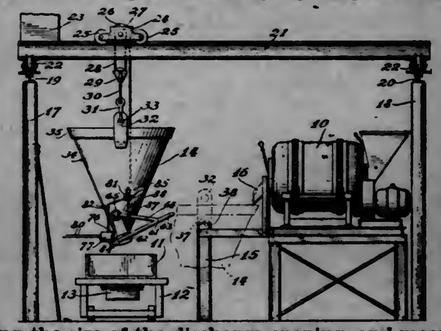
1,923,677
PLANT PACKAGE AND METHOD OF MAKING AND TRANSPLANTING THE SAME
John Thompson Lovett, Jr., Little Silver, N. J.
Application November 18, 1931
Serial No. 575,718
11 Claims. (Cl. 47—37)



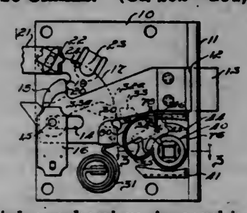
1. A device including a plant ball, a container of pliable material for the plant ball, said container having a perforated side wall and a top opening, a removable cover for said container, said cover closing said perforations and rendering the container substantially moisture tight, and a closure for said top wall, said closure consisting of a self hardening material set about the stem of the plant and in engagement with a wall portion of the device.

1,923,678
BUCKET
John W. Lowell, Chicago, Ill., assignor to Benedict Stone Products Company, Chicago, Ill., a Corporation of Illinois
Application November 14, 1931
Serial No. 575,023
9 Claims. (Cl. 259—72)

1. A portable bucket for handling concrete or the like, comprising a container having a discharge opening and an inner surface located to guide concrete to the discharge opening by gravity, a high frequency vibrator carried by said portable bucket and adapted to effect a discharge of the concrete from the discharge opening, a gate for closing said discharge opening and varying the size of the discharge opening, and means actuated by the gate for controlling the high frequency vibrator, said means including a lost motion device whereby the gate may be moved for throttling the discharge opening without actuating the control means.

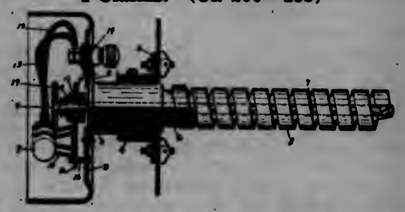


1,923,679
DOORLATCH
Rollo Marple and Albert F. Baker, Jackson, Mich., assignors to Hancock Manufacturing Company, a Corporation of Michigan
Application July 21, 1932. Serial No. 623,718
16 Claims. (Cl. 292—164)



1. In a latch mechanism, in combination, a roll back, a resilient hub therefor, and resilient means constantly tending to contract said hub.

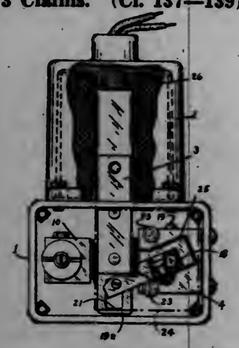
1,923,680
TEMPERATURE ACTUATED ELECTRIC CIRCUIT CONTROL
Ira E. McCabe, Chicago, Ill.
Application April 24, 1926. Serial No. 104,392
4 Claims. (Cl. 200—138)



1. A temperature actuated electric circuit control including a switch, a coiled thermal element, a shaft secured to one end thereof and mounted to be rotated by the expansion and contraction of said element to operate the switch, means interposed between the switch and rotatable shaft allowing further rotation of the shaft after the

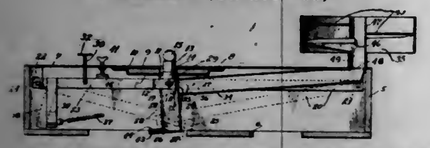
switch has been operated, and additional means offering a yielding progressive resistance to further rotation of the shaft after it has rotated in one direction and operated the switch.

1,923,681
SOLENOID OPERATED VALVE
Ira E. McCabe, Chicago, Ill.
Application June 15, 1931. Serial No. 544,517
3 Claims. (Cl. 137—139)



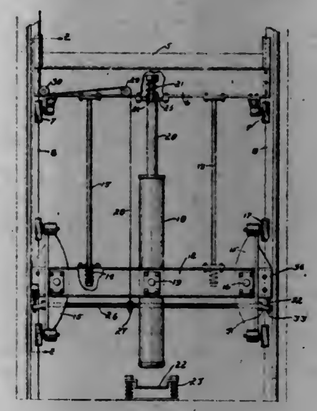
1. A solenoid operated valve including a valve seat having a passageway therethrough, a valve head having a similar passageway therethrough rotatable to bring said passageways into and out of register, a stem for rotating the head, an operating arm upon the stem for imparting rotation thereto, a solenoid core having a lost motion connection with said arm to allow the core to gather momentum before engaging the arm, a solenoid coil adapted to be connected in a controlled electric circuit, and means coacting with said operating arm to impart initial movement to the core when the solenoid is de-energized.

1,923,682
GOLF TEE
Charles L. Moorman, Blue Island, Ill.
Application November 17, 1930
Serial No. 496,054
2 Claims. (Cl. 273—33)



1. In a golf ball teeing device, a casing, a golf ball tee, a base for said tee, an arm pivoted at one end to said case to one end thereof, and including an inwardly extending portion secured to said base for supporting and moving the same, a hanger at the end of the housing opposite to the end at which said arm is pivoted, a second arm pivoted to said hanger and operably connected at its free end with the free end of the first said arm for actuating the same, spring means normally urging the free end of said second arm upwardly, tension adjusting means on the outside of said casing connected to said spring, whereby the tension of said spring may be regulated from outside the casing, manually movable means connected to said second arm whereby the same may be depressed to impart downward movement to the first said arm, and means for delivering golf balls to said tee when moved downwardly to its lowermost position by the first said arm.

1,923,683
SAFETY DEVICE FOR ELEVATORS
Frank L. Ohler, Toledo, Ohio, assignor to The Haughton Elevator and Machine Company, Toledo, Ohio, a Corporation of Ohio
Application May 1, 1930. Serial No. 449,016
5 Claims. (Cl. 187—90)



1. The combination with an elevator car and hatchway, of a buffer, a frame having a rocking connection with the buffer, means connecting said buffer and frame to the car, and means mounted on the outer ends of said frame for gripping the sides of the hatchway under emergency conditions so that the buffer will have substantially the same effect in stopping the car as when the buffer strikes the bottom of the hatchway.

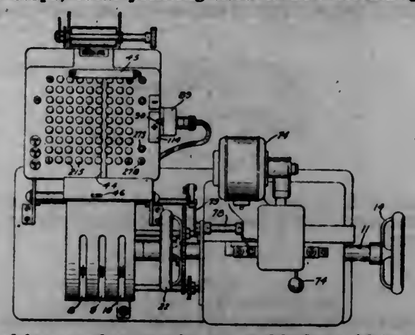
1,923,684
PROCESS OF MAKING FOOD PRODUCTS
Scott H. Perky, Batavia, N. Y.
No Drawing. Application August 26, 1929
Serial No. 388,633
6 Claims. (Cl. 99—10)

1. The process of preparing a food from wheat, barley and oat grains which consists in partly cooking the wheat and barley grains, softening the oat grains, mixing all of said grains while whole, reducing the assembly of grains to a thoroughly mixed mass, further and completely cooking said mass, shaping said mass into individual batter portions, subjecting said batter portions to a temperature sufficient to rapidly dry the exterior thereof to form a shell, leaving the interior in a plastic state, and then reducing said temperature to more slowly dry said interior and cause the same to shrink toward said shell.

1,923,685
CHECKWRITER
Edgar Ellsworth Phinney, West Orange, N. J., assignor to Defiance Manufacturing Corporation, Orange, N. J., a Corporation of New York
Application September 30, 1932
Serial No. 635,543
5 Claims. (Cl. 235—58)

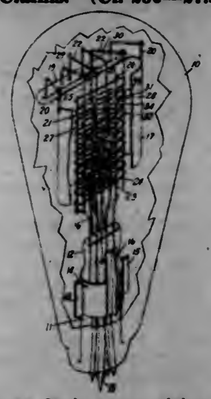
1. In a checkwriter having adjustable type and means for setting selected type to the printing line; an accumulating register having actuators, stops adjustable by the type setting means, feelers adapted to limit the registering movement of the

actuators in accordance with the adjustment of the stops, total printing mechanism including a



total key, and a member operable by said key to move the feelers to inoperative position.

1,923,686
ELECTRON DISCHARGE DEVICE
Howard A. Pidgeon and James O. McNally, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application June 5, 1929. Serial No. 368,647
3 Claims. (Cl. 250—27.5)

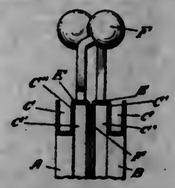


1. A discharge device comprising an enclosing vessel having a stem, leading-in wires sealed in said stem, an anode supported by said stem, an insulating member carried by said anode, a cathode within said anode and supported by said leading-in wires and said insulating member, and intermeshed double grids between said cathode and anode, said double grids having upright supporting wires, the alternate ends of said wires adjacent said stem and said insulating member being respectively connected to said stem and said insulating member.

2. The method of forming two interlaced electrodes for discharge devices, which comprises winding separate helices of flattened cylindrical form having boundaries of different width, positioning one within the other, and pressing the outer helix into the boundary occupied by the inner helix.

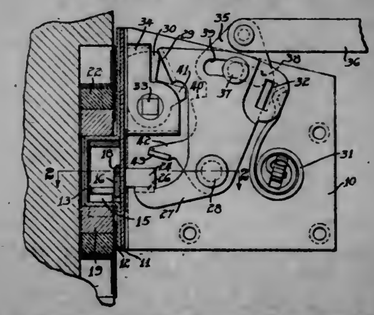
1,923,687
RECEPTACLE FRAME
Robert Prahar, Brooklyn, N. Y.
Application February 7, 1931. Serial No. 514,104
1 Claim. (Cl. 150—29)

A receptacle frame comprising a pair of hinged opposed frame members, each of the frame members having a downwardly opening channel having dependent walls, the inner walls of the downwardly opening channels of the opposed frame members contacting with each other when the frame is closed, and an upwardly opening fabric receiving channel having upwardly



extending walls, one of the inner walls of the upwardly opening channel being common with a wall of the downwardly opening channel and the ends of the upwardly extending walls being adapted to be forced into locking engagement with a fabric to clamp the same.

1,923,688
DOORLATCH
Holden W. Rightmyer, Toledo, Ohio, assignor to The American Swiss Company, Toledo, Ohio, a Corporation of Ohio
Application September 20, 1932
Serial No. 634,021
6 Claims. (Cl. 292—223)

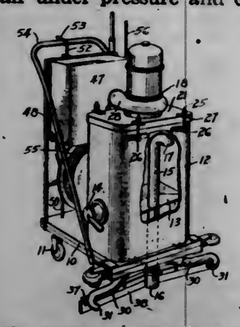


1. A door latch comprising a latching element, a spring-tensioned retracting arm, an inside-operated actuating lever engageable with said arm, said arm and lever being arranged one over the other, a common pivot for said members, means for operating said actuating lever, an extension on said arm, an outside operated roll back engageable with said extension for retracting said latching element, and cooperating abutments on said roll back and arm respectively for blocking movement of said roll back when said arm is rocked in a reverse direction.

1,923,689
SUCTION MACHINE
Edward N. Rosenberg, Toledo, Ohio, assignor to The National Super Service Company, Toledo, Ohio, a Corporation of Ohio
Application December 11, 1931
Serial No. 580,249
5 Claims. (Cl. 15—50)

1. In a suction machine, a carriage movable along the floor, a squeegee supported by the carriage and engageable with the floor, a suction conduit having an intake mouth near the floor in front of the squeegee, means for separating liquid particles from the air current that passes through said conduit and collecting the same, and

means for discharging contiguous streams of water and air under pressure and directing the



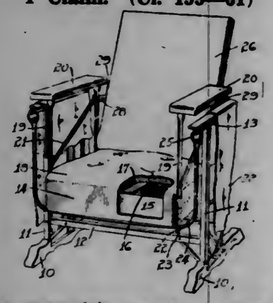
same along the surface of the floor towards said mouth.

1,923,690

ARTICLE OF FURNITURE

Herman Rueter, Toledo, Ohio, assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a Corporation of Ohio

Application December 26, 1931
Serial No. 583,363
1 Claim. (Cl. 155—61)



A chair comprising a supporting standard having a pair of laterally spaced uprights, a seat structure disposed between said uprights, horizontal braces connecting said uprights and disposed directly beneath said seat structure, said seat structure comprising a seat frame, vertically disposed laterally spaced supporting bars arranged in pairs on opposite sides of said seat frame, means for rigidly securing said vertical bars to said seat frame below the upper ends of said uprights, an extension on each vertical bar projecting below said seat frame, a pair of substantially U-shaped cradle supports for said seat structure, swinging connections between the upper ends of said cradle supports and said laterally spaced uprights, said extensions being apertured to receive said cradle supports whereby the weight of said seat structure is imparted to said cradle supports through said vertical bars, a horizontally disposed arm rest connecting the upper ends of each pair of vertical bars each arm rest projecting laterally over and covering the upper end of the adjacent upright, a back rest, and means connecting said back rest to said seat frame.

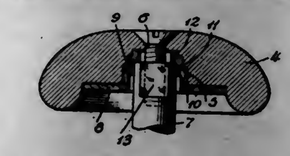
1,923,691

VALVE HANDLE

Joseph J. Schornstein, New York, N. Y.

Application March 13, 1933. Serial No. 660,552
2 Claims. (Cl. 287—53)

1. A handle assembly for valve stems comprising a body, and a mounting plate countersunk within said body and having a stepped socket forming a series of recesses of different sizes, each having straight opposed sides and rounded



ends and adapted to receive the end of a valve stem, and means to secure said handle to a valve stem.

1,923,692

ELECTRICAL INCLOSURE

William W. Sloane, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois

Application March 6, 1929, Serial No. 344,648
Renewed November 16, 1932
11 Claims. (Cl. 220—24)



1. In an inclosure of the character described, the combination with a closure part, of a securing member journaled for angular movement in a bore through said closure part and having an enlarged portion on the inside of said closure part providing an axial shoulder surface having a bearing engagement with said closure part and said enlarged portion being provided with diametrically opposite radial securing lugs for releasably securing the same, a collar on the outside of said closure part and screwthreaded on said securing member and having an axial bearing engagement with said closure part to provide a flame extinguishing surface between said securing member and closing part, and a radial operating member on the outside of said closure part and collar and secured on the outer end of said securing member.

1,923,693

FLEXIBLE TUBE

R. Harry Stone, Irvington, N. J., assignor to Titeflex Metal Hose Co., a Corporation of New Jersey

Application June 4, 1929. Serial No. 368,339
3 Claims. (Cl. 137—75)



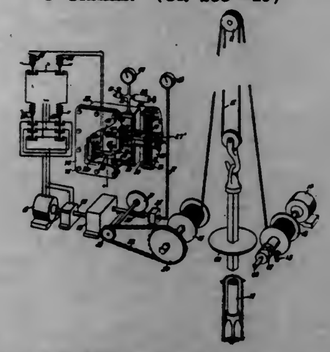
3. A flexible corrugated tube comprising a helically disposed resilient metal strip having a longitudinal groove forming the corrugation in the completed tube, said strip having the edges of adjacent convolutions interfolded to form a helical seam, said seam being rigid and the tube depending for flexibility on bending of the metal in the walls of the corrugation and said seam being coated with a layer of metal which adheres to the seamed parts, tightening the seam and holding the parts against displacement.

1,923,694

CONTROL SYSTEM FOR ROTARY DRILLING

Caius E. Weaver, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York

Application May 18, 1932. Serial No. 612,012
5 Claims. (Cl. 255—19)



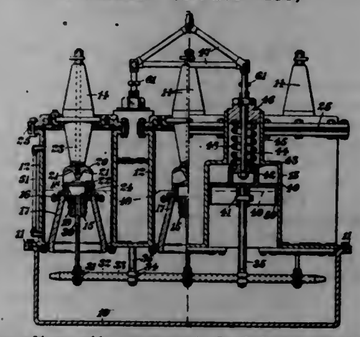
1. In a well drilling equipment, a motor for paying out and taking up a cable which is subject to a variable tension, means for controlling the energization of said motor so as to maintain substantially constant a predetermined tension in said cable comprising a control switch, a diaphragm, means responsive to the cable tension for applying a pressure to one face of said diaphragm, means for applying fluid pressure directly to the other face of said diaphragm to balance said pressure for said predetermined tension in said cable and connecting means between said switch and diaphragm.

1,923,695

ELECTRIC CIRCUIT BREAKER

Willis Bevan Whitney and Edmund Basil Wedmore, London, England, assignors to The British Electrical and Allied Industries Research Association, London, England, a British Association

Application December 3, 1929, Serial No. 411,307, and in Great Britain December 10, 1928
16 Claims. (Cl. 200—150)



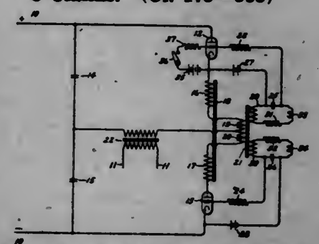
1. An alternating current electric circuit breaker comprising in combination a reservoir for insulating liquid having two limbs extending upwardly above a passage connecting them, a pair of electrodes which are disposed in one limb thereof, which are bridged by an arc on breaking circuit, and of which one forms at least a part of a relatively narrow portion of a passageway which leads from the point of commencement of arcing and is directed upwardly directly therefrom, for rapidly venting the products of arcing, and means to impart to the liquid in the other limb a pressure which will force liquid at high velocity upwardly between arcing contacts and through the venting passageway.

1,923,696

ELECTRIC VALVE CONVERTING APPARATUS

Clodius H. Willis, Princeton, N. J., assignor to General Electric Company, a Corporation of New York

Application December 24, 1931
Serial No. 582,990
3 Claims. (Cl. 175—363)



1. In combination, a source of current, a pair of vapor electric discharge valves each provided with a control grid, a capacitor, a circuit for charging said capacitor from said source including one of said valves, a circuit for discharging said capacitor including the other of said valves, an alternating current circuit associated with one of said capacitor circuits, a self-saturating transformer for exciting said control grids, said transformer including a winding in series relation with the current through each of said valves and time delay means interposed between said control grids and said transformer.

1,923,697

PRODUCTION OF AMINO TRIMETHYL-BENZENES

Arthur Alt, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York

No Drawing. Application November 13, 1929
Serial No. 407,016
13 Claims. (Cl. 260—130.5)

1. The process which comprises heating at a temperature of about 230° to about 300° C. the addition compounds of a zinc halide with a mixture of N-methyl-xylidines.

1,923,698

SHADE SAFETY DEVICE

Arthur Wilhelm Adamson, New York, N. Y.

Application October 7, 1932. Serial No. 636,717
1 Claim. (Cl. 156—26)



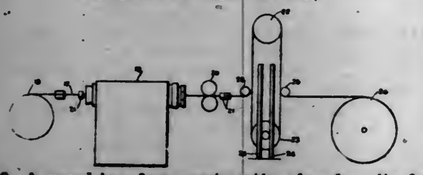
A bracket for holding window shades or the like, comprising a base plate adapted to be attached to the sides of a window frame in which a shade may be mounted, arms extending from said base plate on both sides of the shade, the lower edges of said arms curved inward forming beads presenting a smooth curved surface to the shade, and the upper edges of said arms curved outward to prevent engagement thereof with the shade.

1,923,699

BEAD BUILDING MACHINE

George G. Andrews, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio

Application June 11, 1931. Serial No. 543,606
46 Claims. (Cl. 154—9)



18. A machine for constructing bead units for pneumatic tires comprising a drum, means for rotating the drum, means for stopping rotation of the drum, means for automatically operating the stopping means after a predetermined number of revolutions of the drum, and means for automatically ejecting bead units longitudinally of the drum, said means comprising a ring mounted upon the drum and means for reciprocating the ring longitudinally thereof.

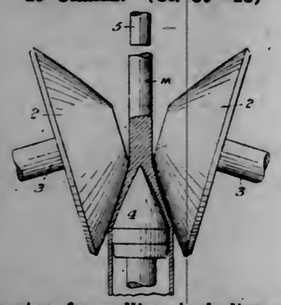
34. A machine for constructing bead units for pneumatic tires comprising a drum, means for rotating the drum, and means for applying fluid to the surface of the drum.

1,923,700

CROSS ROLLING

Leo Becker, Youngstown, Ohio

Application December 10, 1929, Serial No. 413,051, and in Germany December 14, 1928
19 Claims. (Cl. 80—13)



5. Apparatus for rolling including cross rolls and a mandrel convexly curved to produce a decreasing reduction in thickness of the material rolled, the surfaces of said rolls and mandrel being determined from a line joining the extremities of the radii of gyration of the cross sections of the material before and after rolling.

19. A method of making seamless tube comprising the steps of feeding a billet between cross rolls and on to a mandrel, maintaining the formed tube in tight contact with the mandrel circumferentially of the end thereof and effecting a constant rate of change of the cross sectional area of the frustum being worked between the rolls and mandrel.

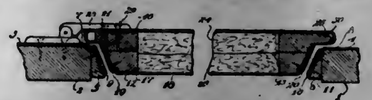
1,923,701

REFRIGERATOR DOOR

Gebhard C. Bohn, St. Paul, Minn., assignor to Harold Bohn, St. Paul, Minn.

Application August 24, 1931. Serial No. 558,980
2 Claims. (Cl. 20—35)

1. A refrigerator door construction, comprising an exterior sheathing plate formed with a marginal, inturned flange, a backing frame adapted to fit closely within said marginal flange, said frame having a pair of end members and a pair of longitudinal side members, each of said end members having an extension formed integral therewith and adapted to have interlocking engagement with said inturned marginal flanged portion, supporting hinges for said door



on the opposite side from said interlocking projecting portions, and means passing through said supporting hinges and said sheathing plate and being imbedded into said frame to secure said frame to said sheathing member.

1,923,702

NONGELLING LACQUER

Charles Bogin, Terre Haute, Ind., and Vaughn Kelly, Chicago, Ill., assignors to Commercial Solvents Corporation, Terre Haute, Ind., a Corporation of Maryland

No Drawing. Application July 29, 1931
Serial No. 553,846
14 Claims. (Cl. 134—79)

8. A non-gelling non-agglomerating nitrocellulose lacquer which comprises nitrocellulose, a basic pigment, an aliphatic ester of an acid of the group consisting of lactic and hydroxy butyric acids and at least one material selected from the group consisting of tartaric acid and salts of tartaric acid.

1,923,703

NONGELLING LACQUER

Charles Bogin, Terre Haute, Ind., and Vaughn Kelly, Chicago, Ill., assignors to Commercial Solvents Corporation, Terre Haute, Ind., a Corporation of Maryland

No Drawing. Application July 29, 1931
Serial No. 553,847
14 Claims. (Cl. 134—79)

8. A non-gelling non-agglomerating nitrocellulose lacquers which comprises nitrocellulose, a basic pigment, an aliphatic ester of an acid of the group consisting of lactic and hydroxy butyric acids and at least one material selected from the group consisting of malic acid and salts of malic acid.

1,923,704

VISCOSITY REDUCED COATING COMPOSITION

Theodore F. Bradley, Westfield, N. J., assignor to Ellis-Foster Company, Montclair, N. J., a Corporation of New Jersey

No Drawing. Application May 6, 1927
Serial No. 189,456
8 Claims. (Cl. 134—26)

1. A coating composition containing nitrocellulose and a synthetic resin which normally yields solutions of greater viscosity than rosin ester, maintained in solution by a solvent mixture comprising a nitrocellulose solvent, a hydrocarbon diluent and secondary butyl alcohol.

1,923,705

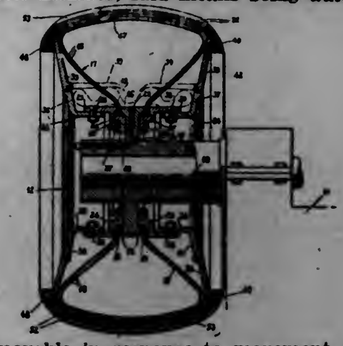
PNEUMATIC TIRE BUILDING CHUCK

John F. Campbell and James D. Thomson, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio

Application September 29, 1930
Serial No. 484,999
14 Claims. (Cl. 154—9)

1. A tire supporting chuck comprising a support, an inflatable member secured thereto, and

means for controlling lateral movement of the inflatable member, said means being automati-



cally movable in response to movement of the member during inflation and deflation thereof.

1,923,706

AGE RETARDERS

Albert M. Clifford, Stow, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio

No Drawing. Application September 14, 1931
Serial No. 562,827
6 Claims. (Cl. 18—50)

1. A method of preserving rubber which comprises subjecting it to vulcanization in the presence of a primary amino methyl naphthalene.

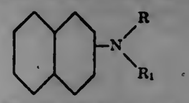
1,923,707

ANTIOXIDANT

Albert M. Clifford, Stow, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio

No Drawing. Application September 14, 1932
Serial No. 633,213
20 Claims. (Cl. 18—50)

9. A method of preserving rubber which comprises subjecting it to vulcanization in the presence of a naphthylamine having the formula



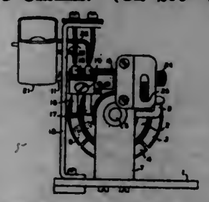
in which R and R_1 are aryl groups.

1,923,708

CIRCUIT INTERRUPTER

Eric R. C. Coe, Summit, and William F. Cassedy, Jr., Milburn, N. J., assignors to International Communications Laboratories, Inc., Newark, N. J., a Corporation of New York

Original application December 23, 1930, Serial No. 504,280. Divided and this application October 31, 1931. Serial No. 572,340
3 Claims. (Cl. 200—24)



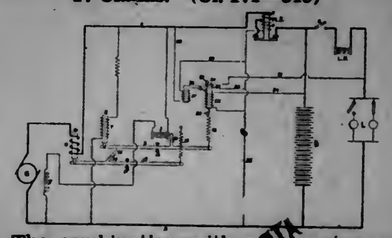
1. In a circuit interrupter, a continuously rotated commutator, a plurality of brushes adapted to be moved into and out of contact with said commutator and a mercury switch adapted to automatically short-circuit said brushes when moved out of contact with said commutator.

1,923,709

SYSTEM OF ELECTRICAL DISTRIBUTION

Bassett M. Coffee, Jersey City, N. J., assignor, by mesne assignments, to Simplex Equipment Company, Inc., New York, N. Y., a Corporation of Delaware

Application June 17, 1919. Serial No. 304,896
17 Claims. (Cl. 171—313)



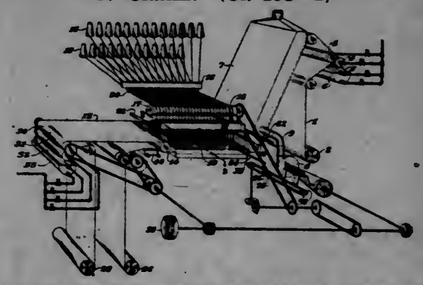
1. The combination with a generator and a battery adapted to be charged thereby, of a regulator for the generator including a shunt coil responsive to generator voltage and operative to maintain substantial constancy of the generator voltage in spite of speed changes, an automatic switch for connecting said generator and battery and means operative independently of said automatic switch to affect said shunt coil for establishing the generator voltage constancy to be maintained by the latter, but thus operative only while the generator voltage is below a pre-selected value.

1,923,710

APPARATUS FOR PRODUCING A COMPOSITE REENFORCED SHEET

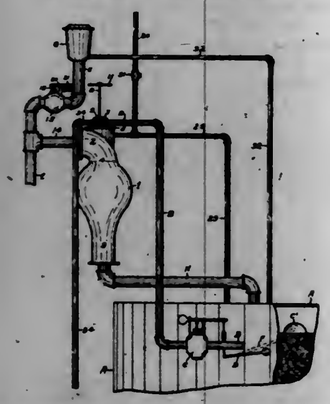
William R. Collings and Donald L. Gibb, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan

Application March 19, 1930. Serial No. 436,936
17 Claims. (Cl. 154—1)



1. In a machine of the character described, the combination of means for feeding material to be reenforced, reenforcing-strand-presenting means moving to and fro in a substantially straight line for taking a plurality of reenforcing strands from a source of supply and guiding all of them back and forth across the path of said material substantially from edge to edge thereof, means along said path of back and forth travel of the reenforcing-strand-presenting means arranged ahead of the final consolidating means to continuously receive and hold the strands in intimate contact with the material being reenforced.

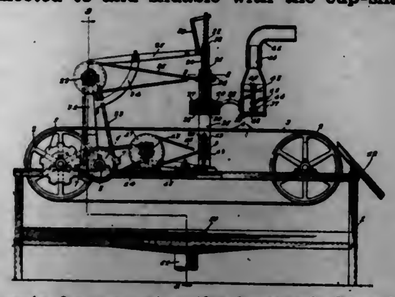
1,923,711
INDUCTION WATER HEATER
George R. Decker, Hamilton, Ohio, assignor of one-half, to Clarence W. Jessup, Richmond, Ind.
Application December 24, 1931
Serial No. 582,965
3 Claims. (Cl. 261—116)



1. An induction water heater comprising in combination, a hot-water container, a pipe for conveying exhaust steam to the atmosphere, a heating chamber, a conduit affording means for conveying steam from the exhaust pipe into the heating chamber, an outlet pipe leading from the upper portion of the heating chamber for the elimination of non-condensible gases, a hot water pipe leading outwardly from the bottom of the heating chamber into the hot water container, means for admitting water into the upper portion of the heating chamber, means for distributing the water as it is being admitted into the heating chamber, a valve located in the exhaust steam pipe and positioned outwardly beyond said conduit, said valve comprising a horizontal U-shaped partition therein with two aligned and spaced apart valve seats therein, a disc for closing the respective valve seats, a stem to which both of said discs are connected and extending outwardly through the body of the valve, a scale arm having one of its ends pivoted to said stem, an arm rigidly connected with said body of the valve and pivotally connected to said scale arm, a weight adjustable along and suspended by said scale arm and normally at all times tending to raise said stem and discs to afford free passage of steam through said valve.

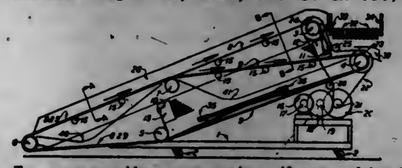
1,923,712
TOMATO CORING AND PEELING MACHINE
Charles F. Deitz, Miami, Fla., assignor to Victor N. Adams, Miami, Fla.
Application March 22, 1932. Serial No. 600,509
5 Claims. (Cl. 146—38)

1. A machine for coring and peeling tomatoes comprising a supporting structure, an endless conveyor on said structure and having openings to form seats for receiving tomatoes, means for driving said conveyor in a step-by-step movement, rotatably and slidably mounted coring devices on said supporting structure movable into and out of the openings to remove cores from the tomatoes, rotatably and slidably mounted cup shaped elements on said supporting structure to fit over the tomatoes while being cored, bristles carried by said cup shaped elements to loosen the skins of the tomatoes, and a pneumatic means connected to and slidable with the cup-shaped



elements for removing the loosened skins from the tomatoes.

1,923,713
FRUIT AND VEGETABLE ASSORTING APPARATUS
Alfred D. Edgar, Presque Isle, Maine, dedicated to the free use of the Government and the People of the United States
Application September 19, 1932
Serial No. 633,860
3 Claims. (Cl. 209—102)
(Granted under the Act of March 3, 1883; as amended April 30, 1928; 370 O. G. 757)



1. In an assorting apparatus, the combination with a screening surface made up of rope belts of two sizes of substantially cylindrical ropes or cables in alternate, parallel, equally-spaced arrangement, of a second screen surface formed by the smaller ropes of the first screening surface, a third screening surface formed by the larger ropes of the first screening surface, said third screening surface extending below said second screening surface and forming an acute angle therewith.

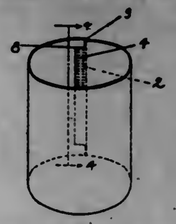
1,923,714
NITROCELLULOSE COATING COMPOSITION CONTAINING LOW BOILING SOLVENT VEHICLES
Carleton Ellis, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey
No Drawing. Application June 19, 1926
Serial No. 117,152
7 Claims. (Cl. 134—26)

1. A coating composition comprising a low viscosity nitrocellulose dissolved in a volatile vehicle of a blush-forming character and a resin of the polyhydric alcohol-polybasic acid type in amount sufficient to yield a substantially non-blushing composition.

1,923,715
USEFUL LACQUER COMPOSITION MADE FROM LOW BOILING SOLVENTS
Theodore F. Bradley, Westfield, N. J., assignor to Ellis-Foster Company, Montclair, N. J., a Corporation of New Jersey
No Drawing. Application July 11, 1928
Serial No. 292,034
9 Claims. (Cl. 134—26)

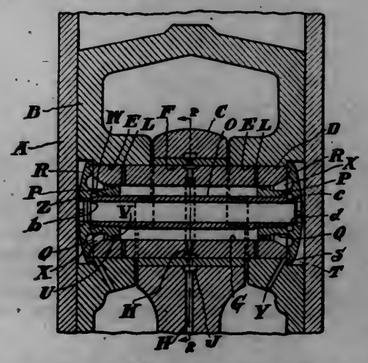
1. A nitrocellulose solution which contains a solvent for the nitrocellulose and a diluent which in admixture is less volatile than the solvent, thus ordinarily causing precipitation of the nitrocellulose with the formation of opaque films when allowed to dry, and a synthetic polyhydric alcohol-organic acid complex of the resin-balsam class which prevents said precipitation of the nitrocellulose and causes the formation of clear, transparent films.

1,923,716
PAPER KEG
Harry C. Fisher, Cincinnati, and Herman Fiedler, Lockland, Ohio, assignors to The Richardson Company, Lockland, Ohio, a Corporation of Ohio
Application September 23, 1930
Serial No. 483,931
7 Claims. (Cl. 229—5.5)



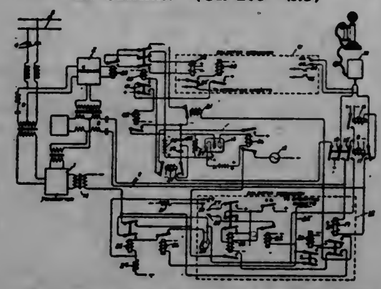
1. A keg formed of paper board made into a lapped body portion, in which a lap extends lengthwise of the keg, said lapped portion lying within the keg, and being cut away at the ends of the keg so that the edges of the body portion abut each other at the ends.

1,923,717
OILING DEVICE
Fritjof Frelin, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey
Application December 22, 1932
Serial No. 648,427
5 Claims. (Cl. 184—6)



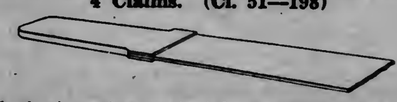
1. An oiling device, comprising a wrist pin having a bore and inlet and outlet passages, means within the bore to define an annular chamber therein for oil, closure means in the ends of the chamber and being threadedly connected to the first said means, packing devices in the closure means for sealing the ends of the chamber, and sealing surfaces on the first said means and the closure means cooperating to prevent leakage of oil through the closure means.

1,923,718
SIGNAL SYSTEM
Frederick W. Frink, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application April 25, 1930. Serial No. 447,367
14 Claims. (Cl. 179—2.5)



1. The combination, in a signal system of a transmitter and receiver, of a code sending device, means in said transmitter responsive to operation of said code sending device for causing uninterrupted calling current to be transmitted for a predetermined interval and thereafter to cause said calling current to be interrupted in code combination determined by the code sending device, selector mechanism in the receiver responsive to code interruptions in received calling current and means for preventing operation of said selector mechanism except when said code interruptions are preceded by uninterrupted calling current for a predetermined interval.

1,923,719
STROPPING MATERIAL
Truman S. Fuller, Niskayuna, and Le Roy L. Wyman, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York
Application April 27, 1931. Serial No. 533,358
4 Claims. (Cl. 51—198)



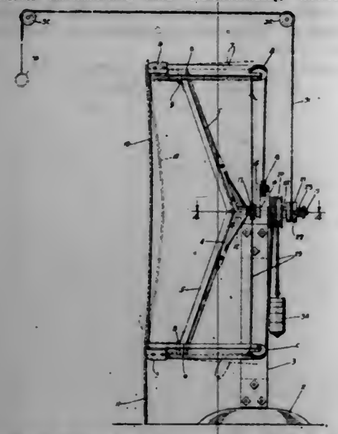
1. A stropping material consisting of a piece of leather the hair follicles of which are substantially filled with abrasive material.

1,923,720
GAME APPARATUS
Charles B. Gamble, Minneapolis, Minn.
Application March 17, 1931. Serial No. 523,212
8 Claims. (Cl. 265—20)

1. The combination with a plurality of radial arms, of levers pivoted intermediate to their ends on the outer portions of said arms, a flexible sheet loosely supported by said levers on one side of their pivots, the impact of an object striking said sheet causing said levers to be tilted on their pivots, and a mechanism connected with said levers on the opposite side of their pivots from said sheet for indicating a distance in yards commensurate with the aggregate tilting movement of said levers.

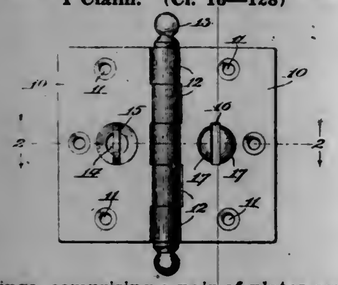
7. In a device of the class described, a plurality of oscillatable members and a supporting means therefor, a flexible sheet having its outer portion loosely connected to said members whereby it may have an initial independent movement when struck by a flying object and subsequently

tilt said members, and a mechanism connected with said members for indicating distance in



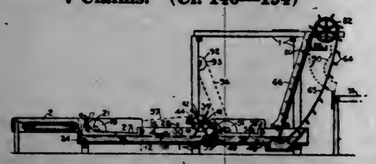
yards commensurate with the resultant tilting of said members.

1,923,721
HINGE
George G. Glenn, Los Angeles, Calif.
Application October 5, 1932. Serial No. 636,311
1 Claim. (Cl. 16—128)



A hinge, comprising a pair of plates connected by a removable pin. a hemispherical lug projecting from the face of one plate, said lug being provided with a diametrically arranged slot that extends through the plate that carries the lug, the other plate being provided with a countersunk aperture of such size and located so as to receive the lug on the other plate when the two plates are closed against each other and a lug extending diametrically across said aperture and projecting outwardly from the face of the plate in which said aperture is located, which lug is adapted to enter the slot in the hemispherical lug when the hinge is closed.

1,923,722
FRUIT CLEANING MACHINE
George E. Goodwin, Hood River, Oreg.
Application April 1, 1929. Serial No. 351,674
7 Claims. (Cl. 146—194)

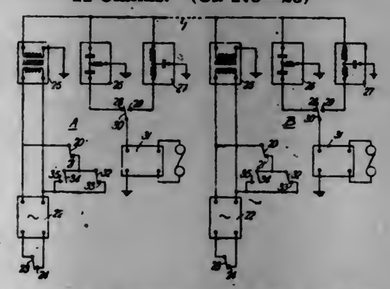


1. In a fruit cleaning machine, a pair of tanks, one containing washing liquid and the other a rinsing liquid, a screen member horizontally positioned over the liquid in said tanks, means for delivering fruit into said tanks over a transversely positioned batter board that rotates the fruit and projects the fruit beneath said screen, a splay board so positioned longitudinally adjacent of said screen as to discharge thereupon, a wheel means mounted in alignment with said splay board and positioned to extend into the liquid and discharge it upon the splay board and adjacent screen, a submerger positioned transversely across the tank back of said screen, a revolving member positioned adjacent to the discharge end of the washing tank that transfers the fruit to the rinsing tank, and a means of removing the fruit at the discharge end of the rinsing tank.

1,923,723
METHOD OF MANUFACTURING INSOLUBLE SULPHUR
Albert J. Gracia, Cuyahoga Falls, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio
No Drawing. Application October 5, 1932
Serial No. 636,351
10 Claims. (Cl. 23—224)

1. A process of preparing insoluble sulphur which comprises agitating a mixture of benzene and flowers of sulphur at approximately 80 degrees C., filtering the hot material and drying the sulphur.

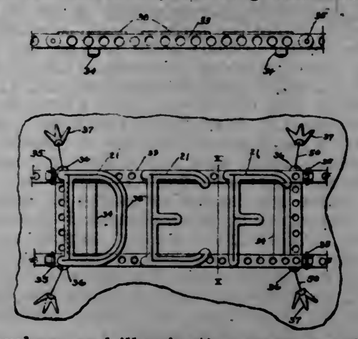
1,923,724
TELEGRAPH SYSTEM
Ronald George Griffith, Croydon, England, assignor to Creed and Company, Limited, Croydon, England
Application February 29, 1932, Serial No. 595,853, and in Great Britain October 23, 1931
11 Claims. (Cl. 178—23)



1. A telegraph system comprising a first signalling station having signal transmitting means and a second signaling station having signal responsive means operable by signals transmitted from the first station, signal transmitting means, and means operable by said signal responsive means for re-transmitting to said first signaling station the signals as received therefrom, the signal transmitting means at the first station being entirely free from control of the second station.

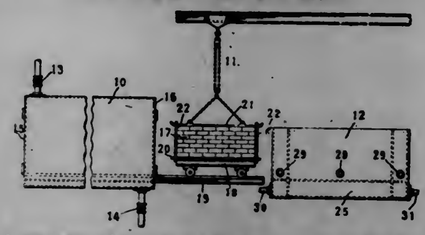
1,923,725
DISPLAY IN AIRCRAFT
Harry H. Haines, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio
Application June 18, 1931. Serial No. 545,165
11 Claims. (Cl. 40—127)

4. A combination of a display device with an aircraft having a gas-filled envelope which includes a plurality of rigid frames curved to conform with and lie against the gas envelope, means for cushioning each frame from the envelope, means for individually securing each frame to



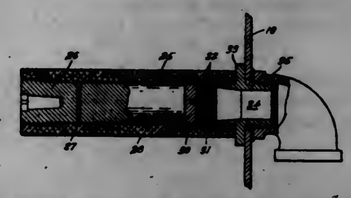
the envelope, and illuminating means carried by each frame and forming the display.

1,923,726
IMPREGNATION PROCESS
Garabed G. Heghinian, Baltimore, Md.
Application October 30, 1929. Serial No. 403,635
1 Claim. (Cl. 91—70)



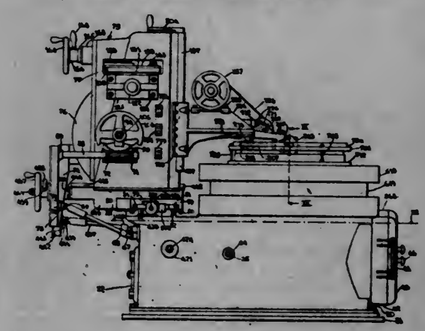
A process of impregnating porous building material, which comprises first subjecting the same to steam treatment, at a temperature and for a time sufficient to replace air in the cells, pores or cavities with steam, through condensation and vaporization as the material is gradually heated, then immersing it immediately in an open tank, into an impregnating liquid bath having a lower temperature than the boiling point of water.

1,923,727
PROTECTION OF DISTRIBUTION TRANSFORMERS AGAINST LIGHTNING
John K. Hodnette, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application December 1, 1931. Serial No. 578,300
20 Claims. (Cl. 175—361)



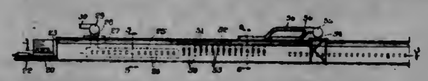
1. A surge-proof transformer comprising a high tension winding, a low tension winding insulated from the high tension winding, a ground connection attached to said low tension winding, a plurality of connections to said high tension winding, a metallic casing enclosing both of said windings, a self-extinguishing arc-discharge device between each of the high tension leads and said casing and an arc-discharge device between the casing and the grounded connection for the low tension winding.

1,923,728
MACHINE FOR ENGRAVING TIRE MOLDS
Herman J. Hoenes, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio
Application February 21, 1928. Serial No. 255,937
10 Claims. (Cl. 90—13.7)



1. An engraving machine comprising a frame, a mold supporting table rotatably mounted on the frame, an engraving tool carriage movable upon the frame about the center of rotation of the table but supported on the frame outside the table, and means for moving the table and the carriage alternately during a single mold unft cutting operation.

1,923,729
TUNNEL KILN
Walter A. Hull, Oak Park, Ill.
Application October 12, 1931. Serial No. 568,274
51 Claims. (Cl. 25—142)

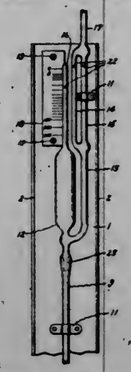


1. In a tunnel kiln having an oxidation zone, the combination of means for removing gases from the lower portion of the ware passage near one end of the oxidation zone, and means for returning said gases to the upper portion of the ware passage of said zone at points near the other end of said zone to reduce the difference in temperature between the ends of said zone.

1,923,730
PRODUCTION OF ARYLGLYCINES
Joseph Everett Jewett, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York
No Drawing. Application October 22, 1929
Serial No. 401,620
21 Claims. (Cl. 260—109)

1. In the production of an arylglycine by the interaction of an arylamine with formaldehyde and a water-soluble metal cyanide, the improvement which comprises treating the arylamine dissolved in an aqueous solution of an arylglycinate with formaldehyde and the water-soluble metal cyanide.

1,923,731
LIQUID PRESSURE MEASURING APPARATUS
Philip J. Johnston, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application August 20, 1929. Serial No. 387,175
6 Claims. (Cl. 73—31)

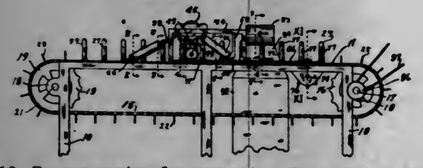


1. In a liquid pressure gage, the combination of tubing, a body of liquid in said tubing, means for moving the liquid into a pressure-reading position, the liquid being characterized in that it contains contaminating material which forms a vision-obstructing film on the tubing at the pressure-reading position, means for collecting the contaminating material at a place remote from the said position whereby formation of the film is precluded, said means comprising a closed chamber constructed and arranged to entrap the said material at a position remote from the pressure-reading position.

1,923,732
NONGELLING LACQUER
Vaughn Kelly, Chicago, Ill., and Charles Bogin, Terre Haute, Ind., assignors to Commercial Solvents Corporation, Terre Haute, Ind., a Corporation of Maryland
No Drawing. Application July 29, 1931
Serial No. 553,844
14 Claims. (Cl. 134—79)

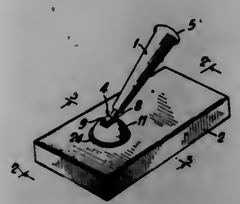
8. A non-gelling non-agglomerating nitrocellulose lacquer which comprises nitrocellulose, a basic pigment, an aliphatic ester of an acid of the group consisting of lactic and hydroxy butyric acids and at least one material selected from the group consisting of boric acid, esters of boric acid and salts of boric acid.

1,923,733
APPARATUS FOR MANUFACTURING THIN RUBBER ARTICLES
Edward S. Killian, Akron, Ohio
Application September 17, 1931
Serial No. 563,248
13 Claims. (Cl. 18—2)



10. In apparatus for removing thin rubber articles from forms, a conveyor, a plurality of forms, means to mount the forms on said conveyor, inclined elongated brushes positioned on each side of said conveyor in operative relation to said forms, said brushes terminating in spaced relation to the top of the forms, means to rotate said brushes to roll articles positioned on the forms to a position adjacent the ends of the forms, a second conveyor positioned in close parallel relation to the first named conveyor, means to drive both of said conveyors at the same speed; tongues mounted on said second conveyor in parallel relation to said forms, said second conveyor adapted to position one of said tongues against each form as the same are carried forwardly by said conveyor, oppositely inclined, elongated brushes positioned on each side of the first named conveyor, means to rotate said brushes to unroll the articles on said forms, over said tongues and means to direct a blast of fluid under pressure between the tongues and the forms, said means operating at a certain point on said conveyor.

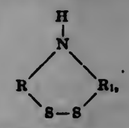
1,923,734
PEN DESK SET
Henry Krause, Little Neck, N. Y., assignor to The Chilton Pen Company, Inc., Long Island City, N. Y., a Corporation of New York
Application October 3, 1931. Serial No. 566,675
17 Claims. (Cl. 120—108)



1. In a desk set, the combination of a base, a member extending transversely of and secured to said base having a flange portion substantially at the upper end thereof, a second member adapted to receive pen supporting means, and means extending about the flange portion for rotatably mounting said second member upon the flange portion of said transversely extending member.

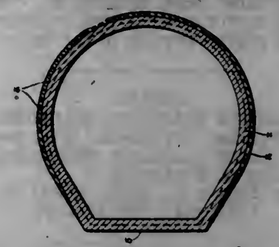
1,923,735
ANTIOXIDANT OR AGE-RETARDER FOR RUBBER COMPOUNDS
Werner M. Lauter, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio
No Drawing. Application October 5, 1929
Serial No. 397,739
11 Claims. (Cl. 18—50)

1. A method of preserving rubber which comprises subjecting it to vulcanization in the presence of a material having the following structural formula:



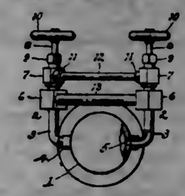
in which R is a benzene group and R_1 is a naphthylene group.

1,923,736
VULCANIZING DEVICE
Kenneth R. Lewis and Delphin C. Waugh, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio
Application June 10, 1931. Serial No. 543,329
9 Claims. (Cl. 18—18)



4. A vulcanizing device comprising an inflatable airbag, a pad including layers of textile and vulcanizable material secured by vulcanization to the outer surface of the airbag walls, and an electric conductor disposed between the layers of the pad and adapted to be heated by electric energy.

1,923,737
WATER GAUGE
John A. MacLean, Detroit, Mich., assignor to Wright-Austin Company, Detroit, Mich., a Corporation of Michigan
Application July 7, 1930. Serial No. 466,142
1 Claim. (Cl. 73—54)

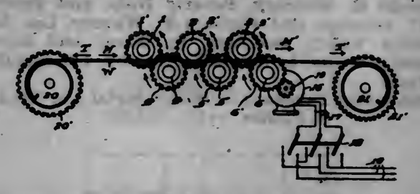


In combination with a water gauge including valve casings and a glass tube connected at its ends to said casings, of a mounting comprising hollow heads upon which said valve casings are mounted in communication with the interior of said heads, a tubular arm on each head opening into said head and adapted for attachment at its opposite end to and in communication with a boiler, and a tubular member connecting said heads to form a connecting strut and in open communication at its ends with the interior of said heads to form a fluid passage in open communication with the boiler and adjacent to but independent of said valve casings and gauge glass.

1,923,738
METHOD OF AND MACHINE FOR STRAIGHTENING OR LEVELING STRIP METAL
William C. McBain, Youngstown, Ohio
Application June 21, 1929. Serial No. 372,561
3 Claims. (Cl. 153—54)

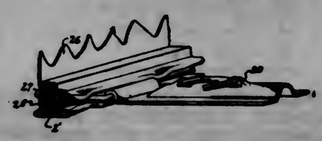
1. The method of straightening and leveling a metallic strip which consists in holding said strip in tension substantially at the elastic limit between tensioning devices spaced apart, and passing the strip through a circuitous path between said tensioning devices.

3. The combination with a rotary reel for receiving a coil of metallic strip, and means for restraining said reel, of staggered rolls for reversely bending said strip when the latter is drawn therefrom, and a power-driven winding-



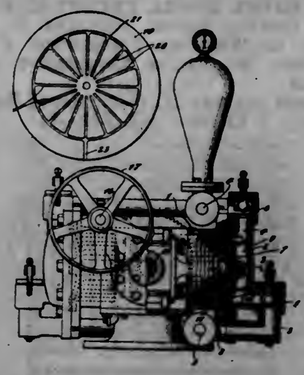
up reel having means adapted to engage the strip and pull it through said rolls from the first mentioned reel.

1,923,739
HEAVY DUTY SEAT CONSTRUCTION
Alexander W. Meake, Jackson, Mich., assignor to Reynolds Spring Company, Jackson, Mich., a Corporation of Michigan
Application November 16, 1931
Serial No. 575,246
3 Claims. (Cl. 155—180)



1. In a heavy duty seat construction, upper and lower frames, an inwardly facing channel formed on said lower frame, a wire secured in said channel, furniture strips extending across the lower frame and having their ends attached to said wire, and coil springs having their lower ends attached to said strips.

1,923,740
PUMP DIAPHRAGM
Charles Muesser, Verona, N. J., assignor to Harry T. Shriver, trading as firm of T. Shriver & Company, Harrison, N. J.
Application August 1, 1931. Serial No. 554,407
10 Claims. (Cl. 103—150)



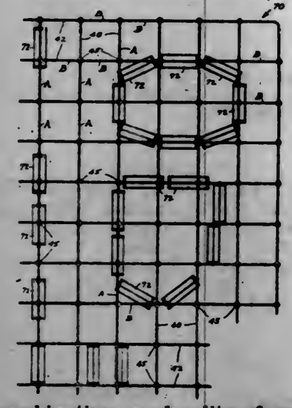
1. In a pump, a relatively thin, continuous and flexible diaphragm, means to hold the diaphragm at its edges, means to transversely flex the diaphragm, means forming a small space interiorly of the diaphragm, and a conduit leading from said space to the exterior of the pump.

1,923,741

LIGHTING APPARATUS FOR MOVING PICTURE STAGES

George R. Murdock, Beverly Hills, and Forrest O. Johnson and Herbert E. Wagner, Los Angeles, Calif., assignors, by direct and mesne assignments, to Bessie E. Tingley, Los Angeles, Calif.

Application February 5, 1932. Serial No. 591,134
9 Claims. (Cl. 240—3)



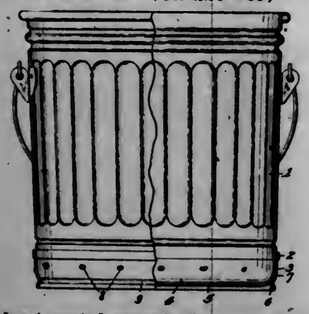
8. In combination: a plurality of sets of rails each including a multiple of parallel equally spaced overhead conveyor rails supported in the same horizontal plane at right angles to each other and intersecting each other so as to form a checkerboard of squares; switches at the intersections between said rails; a plurality of lamp platforms to be maneuvered into a large variety of formations in the area covered by said checkerboard while said platforms are suspended on said rails; overhead conveyor carriages running on said rails, one for each platform and from which said platform is hung, a carriage swivelled on a vertical axis on each end of each of said beams, the distance between said axes being equal to the distance between adjacent parallel rails in said checkerboard.

1,923,742

SHEET METAL RECEPTACLE

William Howard Nesbitt, Wheeling, W. Va., assignor to Wheeling Corrugating Company, Wheeling, W. Va., a Corporation of West Virginia

Application January 17, 1930. Serial No. 421,431
2 Claims. (Cl. 220—69)



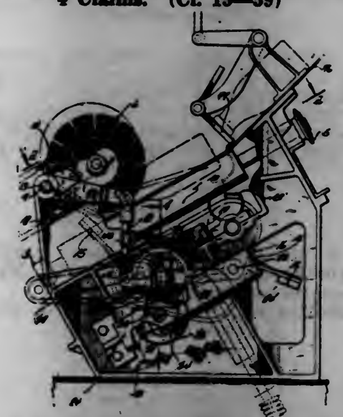
1. A sheet metal receptacle comprising a substantially cylindrical body and a one-piece bottom, said bottom including a base portion and an upright cylindrical wall portion joined by an arcuately curved portion, said wall portion being permanently seamed to said body, and a sheet metal band attached to and occupying annularly embracing relation to said bottom, said band having its upper edge in underlying seated relation to said seam and being provided intermediate its upper and lower edges with an inwardly directed annular bead, arcuate in cross section disposed in conformably seated underlying relation to said curved portion of the bottom.

1,923,743

BOTTLE WASHING MACHINE

Frank P. Perkins, Waukesha, Wis., assignor to Michael Yundt Company, Waukesha, Wis., a Corporation of Wisconsin

Application March 25, 1931. Serial No. 525,061
4 Claims. (Cl. 15—59)



1. In a bottle washing machine, outside scrubbing mechanism comprising longitudinally extending inclined rollers, between and on which the bottles are supported, means for rotating the rollers to cause the bottles to rotate, push and bumper fingers movable between adjacent rollers and cooperable with the bottles for controlling their movement along the rollers, a rotary brush overlying and extending transversely to the rollers, a swingable support for said brush, cam means for swinging said support so as to lower the brush into engagement with the necks of the bottles and to raise the brush for engagement with the body portions of the bottles, and a synchronized drive for the push and bumper fingers and said cam means whereby the brush is lowered while the bottles are under the control of the bumper fingers and is raised when the bottles are pushed under the brush under the action of the push fingers.

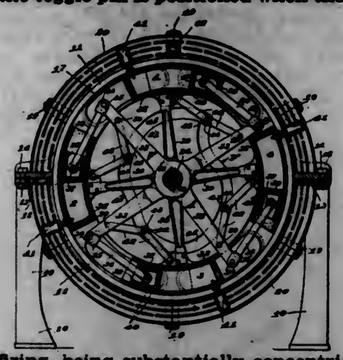
1,923,744

INTERNAL COMBUSTION ENGINE

Harry E. Petrilli, Boston, Mass., assignor to Mercury Motor Corporation, Boston, Mass., a Corporation of Massachusetts

Application October 16, 1928. Serial No. 312,805
1 Claim. (Cl. 123—11)

In an internal combustion engine, a drive shaft, a cylinder mounted on said shaft to form a circular path concentric with the axis of said shaft to drive the same, a piston adapted to reciprocate in said cylinder, toggle links connecting said piston to said cylinder, a toggle pin connecting said toggle links having an end projecting laterally therefrom, a cam groove immovably mounted adjacent said cylinder circle to receive the toggle pin end, said cam groove, at that portion thereof where the toggle pin is positioned when the cylinder is firing, being substantially concentric with the path of movement of the outer end of that toggle link which is connected to the piston, for retaining the piston in substantially a stationary position during the firing period.

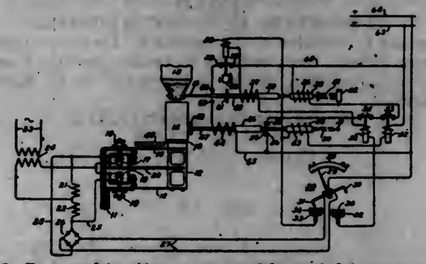


1,923,745

ELECTRICALLY OPERATED WEIGHING SCALE

George E. Platzer, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York

Application January 21, 1932. Serial No. 587,903
20 Claims. (Cl. 249—59)



1. In combination, a movable weight supporting member whose position varies in accordance with the weight it supports, two coils, a magnetic member located adjacent to said coils to function as a part of their magnetic circuits, said coils and magnetic member being relatively movable, means for changing the relative positions of said coils and magnetic member in response to the movement of said supporting member, means for obtaining from said coils a voltage whose magnitude changes in response to the change in relative positions of said coils and magnetic member, electroresponsive means, connecting means for impressing on said electroresponsive means a voltage whose magnitude is responsive to the voltage obtained from said coils, an electrically operated control device, and means controlled by said electroresponsive means for effecting the operation of said control device at a predetermined position of said weight supporting member.

1,923,746

MODIFICATION OF SOUND RECORDS

Roy J. Pomeroy, Los Angeles, Calif.

Application September 15, 1931
Serial No. 562,894
11 Claims. (Cl. 179—100.3)

1. The method of producing volume-modified sound records, that includes: audibly reproducing sound from a record to be modified, artificially modifying the volume characteristics of the sound by reference to the sound as it is reproduced, simultaneously making a record of the artificial modifications imposed, and modifying the original record by means of said record of volume modifications.

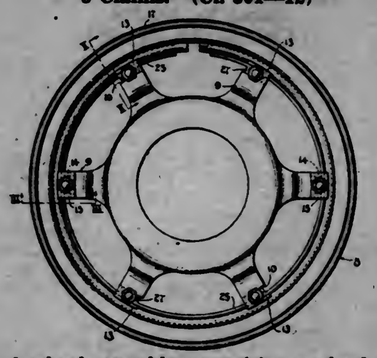


1,923,747

APPARATUS FOR MOUNTING A RIM UPON A WHEEL

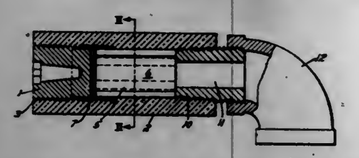
Frederick Stanley Riggs, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio

Application March 13, 1930. Serial No. 435,483
3 Claims. (Cl. 301—12)



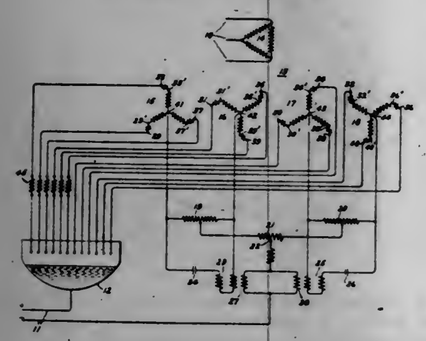
1. A wheel assembly comprising a wheel member having a substantially radial flange on the outboard side portions of its periphery, and a rim-supporting surface laterally inwardly of the flange, portions of the periphery being free of said flange, a rim having an axially inclined seat and a substantially radial wall adjacent said seat, the inclined seat normally being disposed radially outwardly of the rim supporting surface on the wheel periphery and said wall abutting the inboard side of the flange, and rim wedging means between the inclined seat on the rim and the wheel member, said wedging means being movable radially inwardly of the wheel whereby the rim can be moved correspondingly, said movement of the wedging ring and rim being such that when one part of the rim is moved radially inward, the diametrically opposite side of the rim is moved sufficiently radially that it can be moved axially toward the outboard side of the wheel over the flange.

1,923,748
ELECTRICAL DISCHARGE DEVICE
Walter G. Roman, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application February 19, 1932
Serial No. 593,989
9 Claims. (Cl. 175—30)



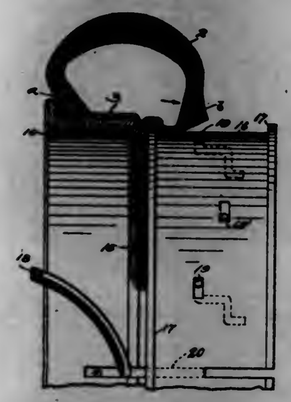
1. An electrical discharge device comprising an insulating casing, having a longitudinal passage therein, a block of non-conducting material blocking said passage, said non-conducting material being capable of evolving gas when subjected to an electric arc, an electrode in said passage spaced from said block, a second electrode adjacent the opposite end of the block, said second electrode being adapted to mechanically brace said block, said block having a plurality of parallel arc passages therethrough, at least one of said electrodes being vented.

1,923,749
MEANS FOR PREVENTING UNBALANCE IN RECTIFIER COMPOUNDING SYSTEMS
Camil A. Sabbah, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York
Application February 27, 1932
Serial No. 595,534
11 Claims. (Cl. 175—363)



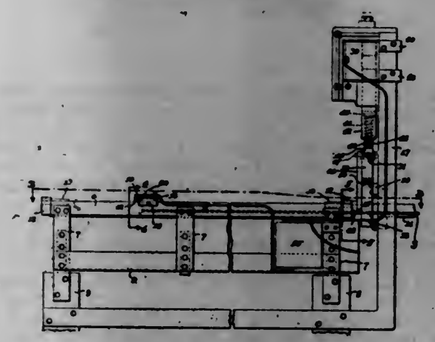
1. The combination of main transformer apparatus, two polyphase systems each provided with secondary windings comprised in said transformer apparatus and with an interphase connection including a reactor connected between the neutral terminals of said windings, an electric discharge apparatus, direct current terminals connected to said interphase connections and through said discharge apparatus to said windings, and means to prevent unbalance between the loads in said two polyphase systems, said means comprising a plurality of reactors associated with windings of said main transformer apparatus, said last-named windings being associated with that one only of said polyphase systems in which the load tends to rise above the load in the other of said polyphase systems.

1,923,750
PNEUMATIC TRUCK TIRE REMOVER
George A. Schmidt, Walnut Park, Calif.
Application November 29, 1932
Serial No. 644,798
4 Claims. (Cl. 157—6)



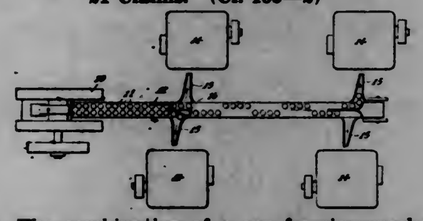
4. Tire removing apparatus including a portable band complementary to a given size tire rim and tire, and having means to interlock within a wall of the tire as the wall passes over said means; said band being reversibly applicable to the rim for tire shift.

1,923,751
AUTOMATIC CUT-OFF MACHINE
Donald P. Schrier and Charles F. Jackson, Jackson, Mich., assignors to Reynolds Spring Company, Jackson, Mich., a Corporation of Michigan
Application September 19, 1931
Serial No. 563,606
4 Claims. (Cl. 140—145)



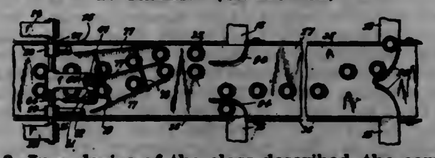
1. In a machine of the character described, a trough into which longitudinal stock is adapted to be fed, a hinged bottom for said trough rotatable on horizontal trunnions, a radially extending plate fixed to one of the trunnions of said bottom, a knife arranged in advance of said trough including a reciprocatory blade, a pivoted lever operatively connected to said blade, a solenoid having its armature connected to said lever, and a lost motion connection between said lever and said plate whereby upon movement of said armature said lever is pivoted to actuate said knife and said plate is subsequently moved to pivot the bottom of said trough.

1,923,752
COMBINED FORMING AND FINISHING MECHANISM
Edgar Scofield, New York, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a Corporation of New York
Original application June 8, 1926, Serial No. 114,518, and in Canada August 7, 1926. Divided and this application December 9, 1932. Serial No. 646,451
21 Claims. (Cl. 153—2)



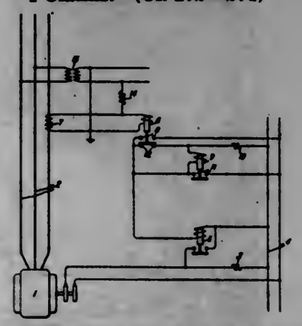
1. The combination of a cap forming mechanism adapted to discharge unfinished caps, a plurality of thread rolling devices of predetermined capacities adapted to roll threads on said caps, and means for automatically dividing the caps discharged from said mechanism and feeding them to said devices in accordance with their capacities.

1,923,753
ARTICLE DISTRIBUTING DEVICE
Edgar Scofield, New York, N. Y., assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y., a Corporation of New York
Application June 8, 1926. Serial No. 114,518
17 Claims. (Cl. 198—31)



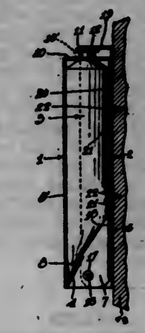
3. In a device of the class described, the combination of a conveyor for receiving blanks in a pair of rows thereon, and a deflector for changing said pair of rows into three rows of blanks.

1,923,754
EXCITATION CONTROL SYSTEM
Harold T. Seeley, Lansdowne, Pa., assignor to General Electric Company, a Corporation of New York
Application September 22, 1932
Serial No. 634,359
4 Claims. (Cl. 172—274)



1. In combination, an alternating current circuit, a synchronous machine connected to said circuit, and means including a relay having a winding energized in response to the current flowing between said circuit and machine and a compensating winding energized in response to the voltage of said circuit for effecting a predetermined increase in the excitation of said machine above normal when the load on said machine exceeds a predetermined value and for restoring the excitation to the normal value as soon as the load decreases to substantially said predetermined value.

1,923,755
CONTAINER CONSTRUCTION FOR COSMETICS
Robert H. Sharp, Chicago, Ill.
Application May 4, 1931. Serial No. 534,961
1 Claim. (Cl. 248—20)
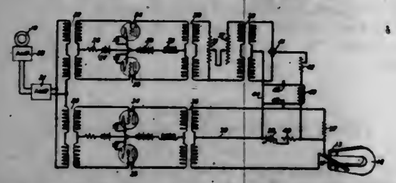


A tube holder comprising a channel shaped support adapted to be secured in vertical position with the side flange extended outwardly, a container for a paste tube comprising a front wall and opposite side walls adapted to fit between said flanges and movably attached to the same adjacent the lower ends thereof for outwardly and downwardly swinging movement, said container having a horizontal top and a bottom inclined upwardly from the lower edge of said front wall for engaging the lower end of a tube positioned within said container and cooperating with said top for holding said tube against longitudinal movement, said top having an aperture therein through which the neck of said tube is adapted to project, and a horizontally disposed member projecting outwardly from said support for frictionally engaging a cap on said neck to retain said container in position when the same has been moved into vertical position between said flanges.

1,923,756
MOLDING COMPOSITION AND A RESINOUS CONDENSATION PRODUCT RESULTING FROM ITS CONVERSION BY HEAT AND PRESSURE
Earl C. Sherrard and Edward Beglinger, Madison, Wis., dedicated to the free use of the Government and the People of the United States of America
No Drawing. Application August 22, 1931
Serial No. 558,849
2 Claims. (Cl. 106—22)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

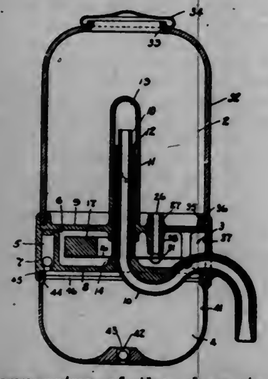
1. A molding composition comprising finely ground wood, phenol and a mineral acid.

1,923,757
SOUND RECORDING SYSTEM
Harold C. Silent, Hollywood, Calif., assignor to Electrical Research Products, Inc., New York, N. Y., a Corporation of Delaware
Application June 19, 1931. Serial No. 545,455
23 Claims. (Cl. 179—100.3)



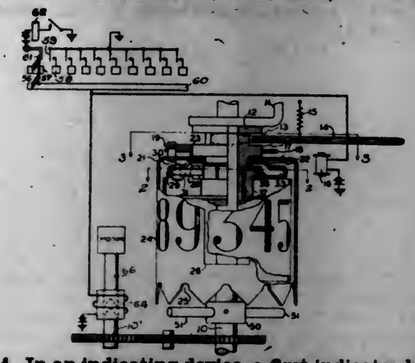
1. In combination, a source of modulated waves, a photographic medium moved at constant speed, a source of light, means for controlling the light from said source incident on said medium, a resistor in series with said control means, means for supplying modulated waves from said source to said control means comprising a transformer having a tapped secondary winding, one portion of which is connected to said control means and the other portion to said resistor, a source of unidirectional current connected between said tap of said secondary winding and the junction of said control means and said resistor, and a control circuit comprising a detector energized by waves from said source to vary the unidirectional current from said source in accordance with the amplitude variations of said waves.

1,923,758
SOAP LATHER DISPENSER
Charles C. Smith, East Cleveland, Ohio, assignor to Monmouth Products Company, Cleveland, Ohio, a Corporation of Ohio
Application May 13, 1930. Serial No. 451,952
2 Claims. (Cl. 299—83)



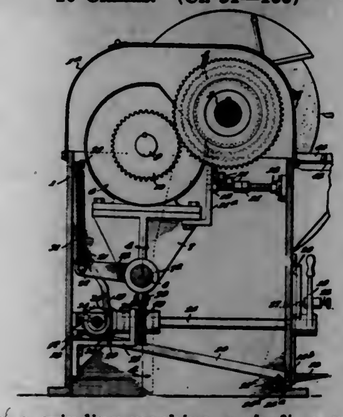
1. An apparatus of the character described comprising a liquid soap supply chamber, an auxiliary chamber beneath the same and in communication therewith, means for maintaining a substantially constant level of liquid soap within said auxiliary chamber, an outlet passageway from said auxiliary chamber having a narrow annular portion vertically disposed and divided into a plurality of narrow grooves having a slight capillary effect adjacent their lower ends which are positioned at a point slightly below said liquid level, and means for supplying air pressure to said auxiliary chamber to simultaneously force air and liquid soap through said outlet passageway to a point of discharge.

1,923,759
COMBINED CURRENT VALUE AND TOTALIZING DIAL
Clyde Smith, Hopkinsville, Ky., assignor to International Communications Laboratories, Inc., New York, N. Y., a Corporation of New York
Application August 30, 1930. Serial No. 478,882
6 Claims. (Cl. 235—92)



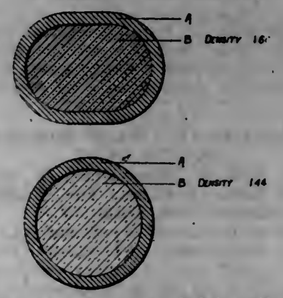
4. In an indicating device, a first indicator having a plurality of integers and an aperture thereon, said aperture being normally located at a display position, a second indicator disposed within the first and cumulatively rotatable thereby, said second indicator having a plurality of integers thereon, one of which is visible when positioned behind said aperture in its normal position, a variably operable shaft for rotating said first and second indicators in one direction until a predetermined integer on said first indicator appears at said display position and an integer on said second indicator, equal to the sum of the said integer and the integer previously displayed by said first indicator, is positioned behind the normal position of said aperture, relay controlled means for coupling said first indicator to and uncoupling it from said shaft, and means effective when said first indicator is uncoupled from said shaft for rotating said first indicator alone in the opposite direction until said aperture appears at said display position.

1,923,760
GRINDING MACHINE
John A. Smith, Cincinnati, Ohio, assignor to The United States Electrical Tool Company, Cincinnati, Ohio, a Corporation of Ohio
Application December 4, 1931. Serial No. 578,858
10 Claims. (Cl. 51—166)



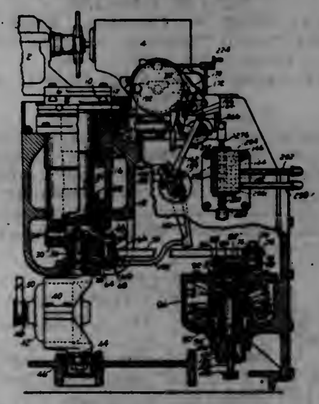
4. In a grinding machine, a shaft, a grinding wheel mounted on said shaft, a translatable element movable toward and from the periphery of said grinding wheel, a series of gears of different sizes fixed on said shaft, a power driven pinion adapted to be meshed with any gear of the series, a lever for shifting the pinion into position of mesh, and a control means connecting said lever to said translatable element for governing the operation of said lever.

1,923,761
MANUFACTURE OF DETONATING FUSE
Walter O. Snelling and Clarence B. Koch, Allentown, Pa., assignors to Trojan Powder Company, a Corporation of New York
Application July 28, 1932. Serial No. 625,340
4 Claims. (Cl. 102—8)



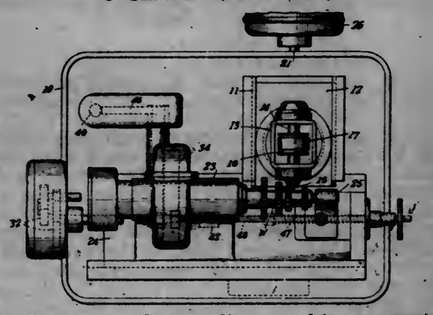
1. In the manufacture of detonating fuse the process which comprises filling a metal tube of non-circular cross-section throughout its effective length with a molten detonating agent, permitting the detonating agent to solidify while the tube remains non-circular in cross-section, distorting the tube to circular cross-section and decreasing the diameter and increasing the length of the filled tube to form cordeau therefrom.

1,923,762
GRINDING MACHINE
Clarence C. Stevens, Forestville, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut
Application November 9, 1927. Serial No. 232,061
21 Claims. (Cl. 51—97)



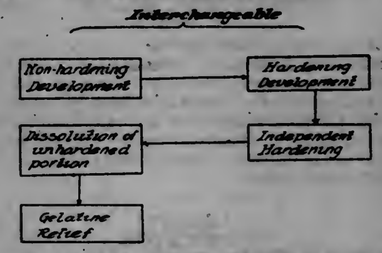
1. In a grinding machine having a work head and a grinding wheel with mechanism for reciprocating one of said members and mechanism for causing a relative feeding movement between the two, mechanism for stopping the feeding movement, a clutch for the reciprocating mechanism, a piston controlling the clutch, a valve controlling the piston, and means for operating the valve subsequently to the stopping of the feeding movement; substantially as described.

1,923,763
GEAR TOOTH ROUNDER
Hubert D. Tanner, West Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey
Application February 11, 1930. Serial No. 427,598
5 Claims. (Cl. 90—20)



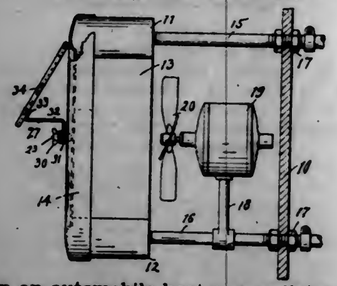
1. A gear tooth rounding machine comprising in combination, a base, a cutter rotatably mounted thereon, a work support slidably mounted on said base, a rotatable work supporting spindle within said work support, means to reciprocate said support in a direction parallel to the axis of said spindle, rotating means for said spindle, and means alternately increasing and decreasing the speed of rotation of said work spindle, said last mentioned means acting in timed relation to and during the reciprocatory movements of said support.

1,923,764
PHOTOGRAPHIC GELATIN RELIEF
Leonard T. Troland, Cambridge, Mass., assignor, by mesne assignments, to Technicolor, Inc., New York, N. Y., a Corporation of Delaware
Application January 30, 1931. Serial No. 512,398
12 Claims. (Cl. 95—5.6)



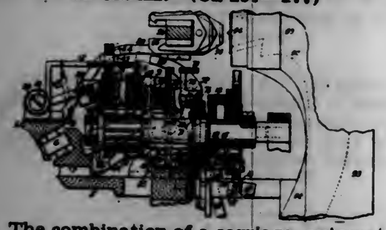
5. The method of making photographic gelatin reliefs which comprises partly developing the latent image of an exposed silver halide emulsion in a solution containing substantially non-hardening reducing agents, partly developing said emulsion with reducing agents hardening the gelatin sufficiently to prevent disintegration of the exposed portions of the emulsion but not sufficient to harden said portions completely and subsequently forming a relief image by completely hardening said portions with a differentially hardening bath and removing the unhardened portions.

1,923,765
AUTOMOBILE HEATER
George W. Veale, Cleveland Heights, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio
Application May 21, 1930. Serial No. 457,718
3 Claims. (Cl. 257—137)



3. In an automobile heater, a radiator including a core having an exposed face, a shell associated with said core, said shell including a bridge member extending across the exposed face of said core, a pivot member secured to said bridge member, said pivot member being positioned centrally of the exposed face of the core, and a deflector plate adjustable about said pivot member, said deflector plate being angularly disposed, the portion of the plate adjacent the center of the face of the core being farther from the face of the core than the portion of the plate remote from the pivot member.

1,923,766
TYPEWRITING MACHINE
Sigurd L. Walsoe, Springdale, Conn., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York
Application October 3, 1930. Serial No. 486,177
21 Claims. (Cl. 197—177)



1. The combination of a carriage, automatically operating tabulating mechanism therefor, a separate key controlled tabulating mechanism, and automatically operating means controlled thereby for rendering said automatically operating tabulating mechanism ineffective during the control of the carriage by said key controlled tabulating mechanism.

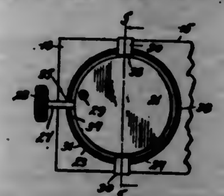
1,923,767
LUBRICATOR
Chichester P. Weldon, Bristol, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut
Application October 17, 1928. Serial No. 313,041
1 Claim. (Cl. 184—90)

In a device of the character described, a lubricator comprising a plug having a tapered stem adapted to be driven into an opening, the plug including the stem having a passage extending lengthwise therethrough and terminating in a countersink, the plug having a channel around it, a spring clip having side arms terminating in outwardly diverging cam portions adapted to snap around the plug when the clip is pushed endwise in the plane of the channel, a cover hinged to the clip and having a latch arm engaging the channel between the cam portions, the



cover comprising an annular flat portion to engage the annular end face of the plug and a central depression with a slanting side wall fitting the countersink; substantially as described.

1,923,768
COMBINED REAR VISION MIRROR AND INSTRUMENT
Robeson B. Wolcott, Forest Park, Ill., assignor to Standard Mirror Company, Inc., Buffalo, N. Y., a Corporation of New York
Application July 5, 1932. Serial No. 620,854
12 Claims. (Cl. 45—97)



1. Means for supporting an instrument case from a panel which consists of means independent of said case and panel loosely connecting said instrument case and panel and locking means inserted from one side of said first means and forced between said case and said first means to hold said case in firm engagement with said panel.

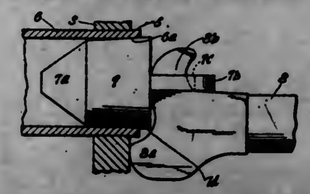
1,923,769
REFRACTORY MATERIAL FOR USE IN METAL CASTING
Charles D. Wood, Sr., Lakewood, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware
No Drawing. Application June 13, 1932
Serial No. 617,045
2 Claims. (Cl. 22—188)

1. In a process of casting metals, the step of bringing the molten metal in contact with a porous refractory composed of sand, a soluble silicate and the reaction product obtained in situ during baking when mixing a small amount of a basic zinc compound with the sand and silicate and baking the mixture.

1,923,770
MEANS FOR MANIPULATING THE DUST-BLOWER PLUGS OF WATER TUBE BOILERS
John F. L. Baker, Saginaw, Mich., assignor to Wickes Boiler Co., Saginaw, Mich., a Corporation of Michigan
Application October 16, 1930. Serial No. 489,042
1 Claim. (Cl. 254—131)

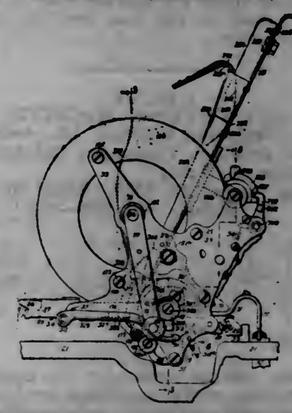
A device for removing and replacing tapered plugs in the tubular thimbles of a boiler hand-

hole sheet, each plug having a bail on its end, said device comprising a bar having a head formed to present a heel-like fulcrum member which is adapted to seat on said sheet adjacent a thimble, said head also shaped to present an oppositely extending hook-like member positioned to releasably engage the bail of said plug and adapted to serve also as a ram for driving the



plug into tight seating engagement with a thimble, and a portion of said head intermediate said fulcrum, said fulcrum and said hook-like member being shaped to engage an edge of the plug and provide a support for the same whereby the plug is held in substantial axial parallelism with the said bar when the plug is freed from the thimble.

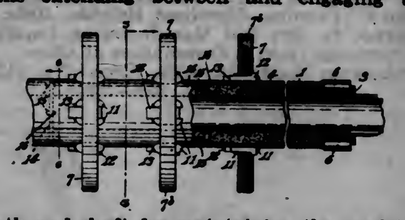
1,923,771
TYPEWRITING MACHINE
Edwin E. Barney, New Rochelle, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York
Original application April 13, 1927, Serial No. 183,466, now Patent No. 1,870,086. Divided and this application July 17, 1928. Serial No. 293,435
37 Claims. (Cl. 197—138)



3. The combination of a traveling paper-receiving device, means carried thereby for feeding paper over said device, and automatically operating locking means for preventing the operation of said paper feeding means except when said traveling device is at a single point in its travel.

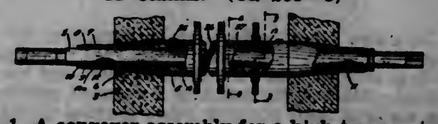
1,923,772
CONVEYER FOR FURNACES
Oliver Karl Carpenter, New Cumberland, W. Va., assignor to The Duraloy Company, Pittsburgh, Pa., a Corporation of Delaware
Application December 29, 1928
Serial No. 329,224
6 Claims. (Cl. 263—6)

1. A furnace conveyer assembly including in combination a shaft, a sheath, encircling the shaft, conveyer wheels or discs removably secured to the sheath for rotation therewith, and means extending between and engaging the



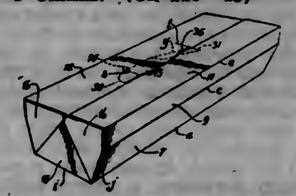
sheath and shaft for maintaining the predetermined spacing of the shaft from the sheath.

1,923,773
FURNACE CONVEYER SHAFT
Oliver K. Carpenter, New Cumberland, W. Va., assignor to The Duraloy Company, Pittsburgh, Pa., a Corporation of Delaware
Application March 13, 1931, Serial No. 522,499
Renewed October 15, 1932
11 Claims. (Cl. 263—6)



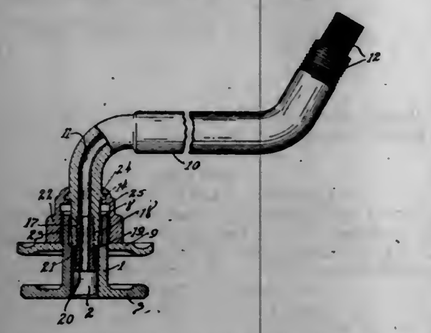
1. A conveyer assembly for a high temperature furnace comprising a rotatable shaft of a length to extend through a furnace and its walls and to be journaled outside of the latter, a sheath around the shaft and of a length to extend through the furnace and its walls, the sheath being spaced apart from the shaft intermediate its ends and seating at its ends on the shaft outside of the furnace walls, a positive connection between the shaft and one end of the sheath for transmitting rotary motion from the shaft to the sheath, a connection between the shaft and the other end of the sheath for permitting relative axial movement of the shaft and sheath while preventing relative rotational movement, heat insulating material in the space between the sheath and shaft, packing means to prevent escape of insulation at the ends of the sheath, means to maintain the spacing of the sheath and shaft substantially constant and an article conveying surface on the exterior of the sheath.

1,923,774
CARTON FOR EGGS AND THE LIKE
Joseph L. Coyle, London, Ontario, Canada, assignor to Leon Benoit, Chicago, Ill.
Application February 11, 1931, Serial No. 514,922, and in Canada March 26, 1930
6 Claims. (Cl. 229—45)



1. In combination with a structure having two walls in one of which is a slit, a tongue extended from one wall for insertion through the slit of the other, and duplex means having parts in common on the tongue foldable in either of two ways and engageable with wall portions adjacent the slit adapted to establish selectively a positive or frictional lock therewith.

1,923,775
VALVE STEM CONSTRUCTION
John C. Crowley, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio
Application March 16, 1929. Serial No. 347,467
1 Claim. (Cl. 285—122)



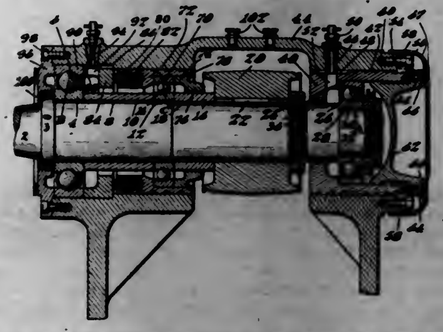
In a two piece valve stem construction for a pneumatic tire, a tubular stem part provided with a longitudinal bore therethrough and having an enlarged portion and a reduced portion, the walls of both portions being parallel to each other and lying in a plane extending longitudinally of said part, a second tubular stem part having a bore therethrough and a reduced end portion formed of a headed sleeve secured in the bore of said part and extending outwardly thereof and a gasket arranged on said sleeve intermediate the head thereof and the end of the stem part, said reduced portion of the second named stem part being arranged in the reduced portion of the bore of the first named stem part with the packing member engaging the wall thereof, and means of securing said stem parts together.

1,923,776
PRESSURE GAUGE
John C. Crowley, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio
Application November 27, 1931
Serial No. 577,464
7 Claims. (Cl. 73—111)



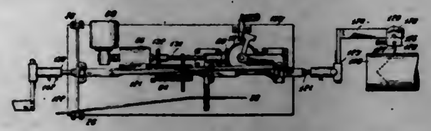
3. A pressure gauge comprising a tubular casing, a piston slidable in said casing and adapted to be moved in one direction by fluid pressure, a spring for moving said piston in the opposite direction and for resisting the first named movement thereof, a tubular plunger slidable in said casing and adapted to be moved in one direction by said piston and in the other direction by gravity, means for holding said plunger in the position to which it has been moved by said piston and including a sleeve having an end extending into said plunger and provided with expansible spring arms normally engaging the inner surface of the plunger, said arms being provided with portions having inclined surfaces, and a tubular stem slidable in said sleeve with its inner end positioned over said portions of the spring arms and engaging the inclined surfaces thereof.

1,923,777
BEARING MOUNTING
Thomas C. Delaval-Crow, Bristol, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut
Application May 5, 1927. Serial No. 188,963
14 Claims. (Cl. 308—189)



1. In a bearing mounting, a main casing having bores, a spindle, bearing housings slidably fitting in the bores of the casing, an antifriction bearing in each housing for supporting the spindle, an antifriction bearing between the spindle and one end of the main casing, means for positively adjusting one of the bearing housings axially in its bore to put an initial thrust load upon its bearing and upon the end antifriction bearing, and a spring for pressing the other bearing housing axially in its bore to put a thrust load upon its bearing and to increase the thrust load on the end bearing; substantially as described.

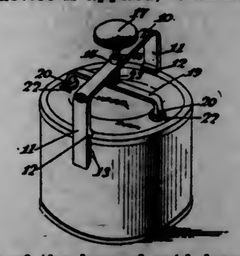
1,923,778
PIPE CUTTING MACHINE
Frank J. Douglass, Chicago, Ill., assignor to Douglass Brothers Company, Chicago, Ill., a Corporation of Illinois
Application August 27, 1930. Serial No. 478,269
21 Claims. (Cl. 266—23)



3. In pipe cutting apparatus the combination of an operating shaft, a cutting torch in offset arrangement on said shaft, mechanism for rotating the shaft and imparting longitudinal movement thereto, means for adjusting the angular position of the torch to vary the bevel of the cut, and means for automatically shifting the angular position of the torch from said position of adjustment as the cutting operation proceeds.

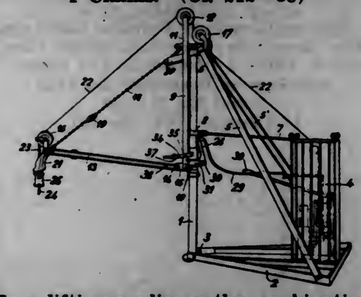
1,923,779
CAN PUNCTURING AND SEALING DEVICE
Joseph W. Dye, Long Beach, Calif., assignor of one-half to H. E. Gillespie, Long Beach, Calif.
Application April 21, 1930. Serial No. 445,869
3 Claims. (Cl. 220—51)

1. In a can puncturing and sealing device, an inverted U-shaped frame formed of resilient material, the depending legs of which frame converge downwardly, stop lugs formed on the inner faces of the depending legs of said frame, which lugs are adapted to rest on top of the can to which the device is applied, teeth formed on the



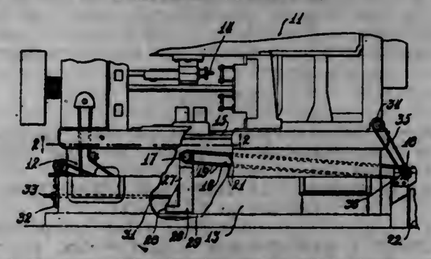
inner faces of the legs of said frame below the lugs thereon for engaging the outer face of the wall of the can to which the device is applied and a spring held puncturing member arranged for rotary and sliding movement on said frame.

1,923,780
LIFTING APPLIANCE
André Faure and Antoine Faure, Firminy (Loire), France
Application February 9, 1932, Serial No. 591,831, and in France February 21, 1931
4 Claims. (Cl. 212—58)



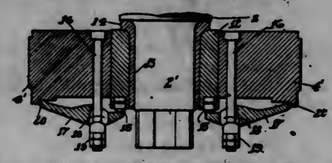
1. In a lifting appliance the combination of a vertical post, a base frame tiltably pivoted thereto, an upright mounted close and parallel to the post so as to pivot about the axis thereof, a jib attached to said upright, and ties connecting said frame to the upper end of the post.

1,923,781
WASTE CONVEYER
William E. Flanders, Detroit, Mich.
Refiled for abandoned application March 19, 1930, Serial No. 437,022. This application May 2, 1932. Serial No. 608,842
4 Claims. (Cl. 29—1)



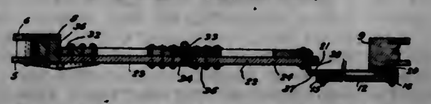
1. In a machine having means therein to convey metal cuttings beyond the machine frame, said means comprising, in combination, a conveyer consisting of spaced slats arranged laterally over endless chains, rollers for supporting said conveyor, one arranged outside said frame and the other mounted in an adjustable U-shaped bearing bracket within said frame, guides integral with said frame supporting said bracket, and adjusting screws extending from said bracket outwardly of said frame to facilitate adjustment of said bracket to vary the tension on said conveyer.

1,923,782
RETAINING MEANS FOR ROLLING MILL BEARINGS
Jerome R. George, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts
Application April 4, 1930. Serial No. 441,582
18 Claims. (Cl. 308—59)



1. In a rolling mill housing, a roll, a bearing for the neck of said roll, and a retaining means carried by said housing for contact with the end of said bearing, in all positions of the latter, at a single point substantially in the horizontal plane through the center of gravity of the bearing's contact with the shoulder between the roll barrel and the roll neck.

1,923,783
RAILWAY CAR SIDE DOOR CONSTRUCTION
Garth G. Gilpin, Riverside, Ill., assignor to Railway Metal Products Company, Chicago, Ill., a Corporation of Delaware
Application November 19, 1928
Serial No. 320,340
6 Claims. (Cl. 20—21)



1. In a railway car having a side wall and a door opening therein, the combination of a door hinged at one vertical edge of the opening to partially close the opening with its outer surface substantially flush with the outer surface of the side wall when in closed position, said hinged door comprising two parts hinged together so as to fold upon each other when the door is in open position, a slidable door arranged to move in a vertical plane outside of the side wall to close the remainder of the opening, and a jamb extending outwardly from the front margin of the hinged door engageable with the slidable door to provide a stop therefor.

1,923,784
SIDE DOOR CONSTRUCTION FOR RAILWAY CARS
Garth G. Gilpin, Riverside, Ill., assignor to Railway Metal Products Company, Chicago, Ill., a Corporation of Delaware
Application November 19, 1928
Serial No. 320,341
18 Claims. (Cl. 189—46)

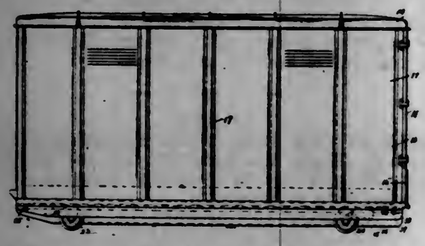
16. In a railway car having a door opening,

the combination of a slidable door, and a post



having a channel section swingably attached to said door.

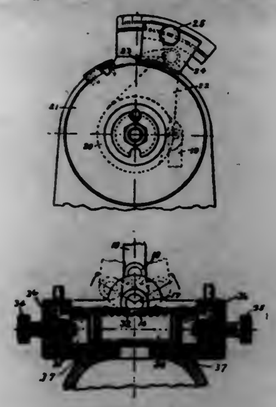
1,923,785
MOTOR VEHICLE
James Heian, Cleveland, Ohio
Application May 25, 1927. Serial No. 193,984
6 Claims. (Cl. 214—38)



1. In a motor vehicle, the combination of a chassis, rollers supported by said chassis, some of said rollers being positioned out of alignment with respect to the remaining of said rollers, a demountable body adapted to be moved onto and off of said chassis, trackways secured to said body and having portions engaging the periphery and sides of said rollers to thereby prevent lateral movement of said body with respect to said chassis, means for automatically securing the front end of said body to said chassis, and means for automatically securing the rear end of said body to said chassis to thereby prevent longitudinal movement therebetween.

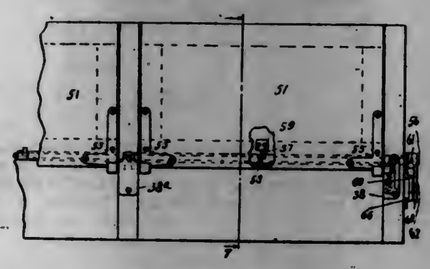
1,923,786
FEED MECHANISM FOR MACHINE TOOLS
Carroll Knowles, West Hartford, Conn., assignor to Pratt & Whitney Company, Hartford, Conn., a Corporation of New Jersey
Application February 14, 1931
Serial No. 515,862
4 Claims. (Cl. 51—165)

1. Feeding mechanism for a machine tool comprising in combination, a cylinder having means to admit fluid pressure to the opposite ends thereof, a plunger movable within said cylinder, rack teeth on said plunger, a shaft having a pinion thereon engaging said rack whereby said shaft is oscillated by movement of said plunger, an arm on said shaft oscillated therewith, a ratchet carrying member actuated up to a predetermined position and back again by move-



ment of said arm in either direction and a feed wheel actuated by said ratchet member.

1,923,787
HINGE
Neil P. Larsen, Cleveland Heights, Ohio, assignor to The American Coach & Body Company, Cleveland, Ohio, a Corporation of Ohio
Application December 28, 1929
Serial No. 417,124
10 Claims. (Cl. 20—16)



1. A wall having an opening, a closure member for said opening, means for pivotally connecting said closure member and wall for normally urging a portion of said closure member into overlapping engagement with said wall to maintain said closure member in closed position, said closure member being bodily movable in a plane substantially parallel with said wall to disengage said overlapping portion from said wall and permit opening of said closure member.

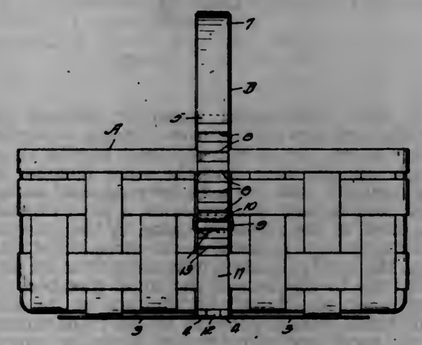
1,923,788
VALVE
Henry J. Mastenbrook, Cleveland, Ohio, assignor to The Swartwout Company, Cleveland, Ohio, a Corporation of Ohio
Application May 12, 1930. Serial No. 451,560
7 Claims. (Cl. 137—153)

1. In a pressure controlled valve, comprising a casing, a pair of seats in said casing, a closure member adapted to seat on either of said seats, means on one of said seats extending through said casing for varying the distance between said seats, means comprising a stuffing box between said casing and said means, and



means for holding said latter seat in adjusted position.

1,923,789
REENFORCEMENT FOR HAND BASKETS
Andrew Moeller, Creve Coeur, Mo.
Application June 8, 1931. Serial No. 542,724
9 Claims. (Cl. 217—125)



1. In combination with a basket and the handle thereof, a plate upon which the major portion of the bottom of the basket is adapted to rest, a short handle member hingedly connected to one of the side edges of the plate, a relatively longer handle member hingedly connected to the opposite side edge of the plate, said handle members adapted to overlap one another on one side of the basket and means for detachably connecting the handle members.

8. In a tie device wherein the ends thereof are adapted to overlap, transverse corrugations formed along a portion of each end of the device and adapted to lie in superimposed adjustable nested relation and a loop clasp hingedly carried at the extremity of one end of the device through which the other end of the device passes so that the loop clasp will engage in one of the corrugations on the end of the device passing through the loop clasp to prevent separation of the superimposed ends of the device in the adjusted nested relation.

1,923,790
CHROMIUM PLATED ARTICLE AND METHOD OF MAKING THE SAME
George L. Meore, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania
No Drawing. Application November 24, 1928
Serial No. 321,766
2 Claims. (Cl. 91—68.2)

1. The method of plating an aluminum alloy surface having an oxide coating which comprises mechanically removing the oxide by brushing vigorously the surface with a wire brush impregnated with molten tin to brush off the oxide and simultaneously deposit in place of the removed oxide a coating of tin directly to the oxide free surface, a portion of which is alloyed with the aluminum alloy without the interposition of oxides and thereafter depositing a layer of chromium on the layer of tin.

1,923,791
FREIGHT CAR DOOR
Walter P. Murphy, New York, N. Y., assignor to Railway Metal Products Company, Chicago, Ill., a Corporation of Delaware
Application September 8, 1928
Serial No. 304,753
10 Claims. (Cl. 189—46)

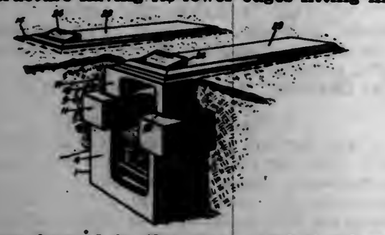


10. In a railway car wall having a door opening therein, the combination of a door swingably mounted upon said wall adjacent one vertical edge of the opening to partially close said opening when in closed position, and another door slidably mounted upon said wall to close the remainder of said opening when in closed position, said slidable door arranged to partially overlap the swingable door when both are in closed positions to retain the swingable door in closed position until the slidable door is moved.

1,923,792
BURIAL VAULT
Claude R. Neff, Camden, Ohio, assignor to The Neff & Fry Company, Camden, Ohio, a Corporation of Ohio
Application May 12, 1932. Serial No. 610,830
8 Claims. (Cl. 72—7)

1. A surface burial vault comprising a body portion adapted to form the casket chamber, a lid mounted on the upper end of said body portion, said lid being provided with a continuous depending flange adapted to form an air seal between said lid and said body portion and being situated on the outside of said body portion, sealing compound disposed between said lid and said body portion, a removable member mounted on said lid, said member compris-

ing an inverted substantially box-like structure, said structure having its lower edges fitting into



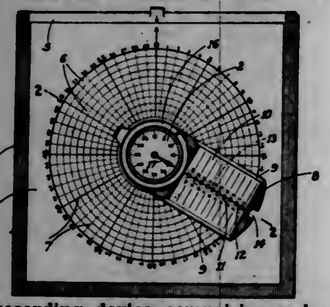
a groove formed in the upper surface of said lid.

1,923,793

ACTIVITY-ANALYSIS AND RECORDING DEVICE

Charles H. Niederhauser, Palo Alto, Calif.

Application February 19, 1932
Serial No. 594,019
9 Claims. (Cl. 234—36)



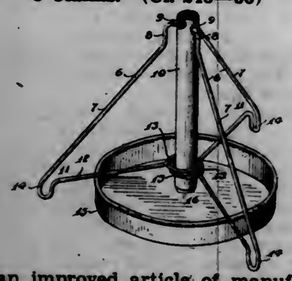
1. A recording device comprising a board, a timepiece mounted thereon, a recording sheet adapted to rest on the board in surrounding relation to the timepiece, said sheet having a plurality of lines concentric with the timepiece and defining circular spaces therebetween and lines radial with the timepiece and spaced corresponding to the minute spacings of the dial of the timepiece, and a member turnable axially of the timepiece and overlying the sheet; said member being provided with stylus-receiving openings alined with the different circular spaces on the sheet.

1,923,794

CHRISTMAS TREE STAND

George Bernard Noland, Northville, Mich., assignor of one-half to Warren C. Lichty, Wayne, Mich.

Application October 4, 1932. Serial No. 636,197
8 Claims. (Cl. 248—38)



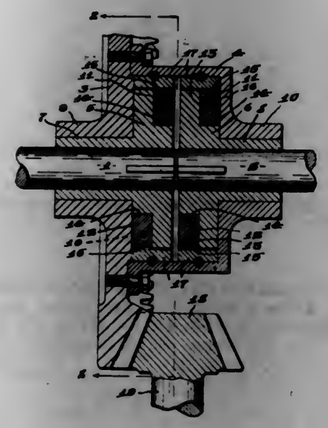
1. As an improved article of manufacture, a section for a tree support comprising a single length of metal having a sharp head at one end and an annulus at its opposite end, and bent to form an acute angle intermediate its ends.

1,923,795

DRIVE MECHANISM FOR MOTOR VEHICLES

Stanley C. North, Syracuse, N. Y., assignor of one-fourth to Stanley H. Keeling and one-fourth to Dwight H. Keeling, Syracuse, N. Y.

Application September 24, 1931
Serial No. 564,865
1 Claim. (Cl. 74—7)



A drive mechanism including driving and driven members and an over-running clutch between them, one of said members having an internal annular face, and the other member being mounted with its periphery opposed to said face, and formed with recesses, a pawl pivotally mounted in the recess to swing in the direction of rotation, and opposite to the direction of rotation, the pawl extending outwardly from its pivot relatively to the axis of the inner member, and having an arc-shaped clutch face at its outer end struck from a different center from the axis of the pawl, and with one end normally tangent to the inner annular face and receding from the point of tangency in the direction of rotation, said arcuate face being toothed to coact with said annular face, and spring means for resisting movement of the pawl in the direction of rotation.

1,923,796

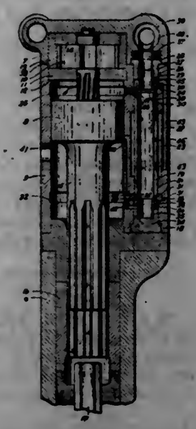
ROCK DRILL

John E. Renfer, Cleveland, Ohio, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio, a Corporation of Ohio

Application May 22, 1930. Serial No. 454,549
6 Claims. (Cl. 121—19)

1. In a rock drill having a cylinder and a piston reciprocable therein, a distributing valve including a sleeve, means for admitting motive fluid into said sleeve, conduits communicating with the opposite ends of said sleeve and the opposite ends of said cylinder, means for interrupting communication between said sleeve and said conduits, and means responsive to pressure within the cylinder developed by movement of

the piston within the same for mantaining said sleeve out of communication with one of said



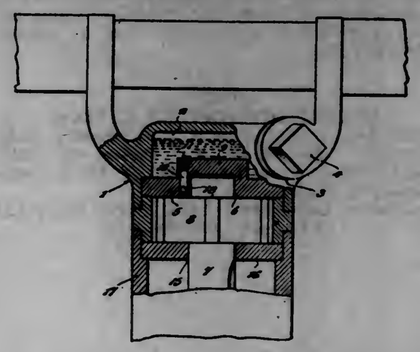
conduits while establishing communication of said sleeve with the other conduit.

1,923,797

LUBRICATOR FOR PERCUSSIVE TOOLS

Led L. Richardson, Cleveland, Ohio, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio, a Corporation of Ohio

Application March 11, 1929. Serial No. 346,077
2 Claims. (Cl. 184—55)



1. The combination with a fluid actuated tool having an oil containing reservoir therein, of a chamber between the reservoir and the interior of the tool, said chamber having a port opening into its upper end for conducting lubricant from the reservoir to the chamber, and having a passage leading from the lower end of the chamber to the interior of the tool for conducting lubricant from the chamber to the working parts of the tool, a ball mounted within the said chamber and freely movable therein for restricting the flow of lubricant through and from the chamber, the said passage and said port being disposed remote the surface of the ball to assure continuous fluid passage from the reservoir to the interior of the tool.

1,923,798

CONDENSATION PRODUCT AND PROCESS OF MAKING SAME

Rona Robinson, Withington, near Manchester, England, assignor to the firm of The Clayton Aniline Company, Limited, Clayton-Manchester, England

No Drawing. Application July 12, 1929, Serial No. 377,923, and in Great Britain July 20, 1928
4 Claims. (Cl. 260—130)

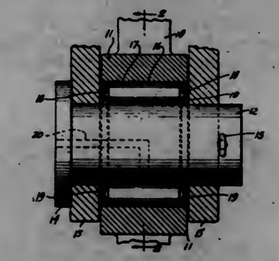
1. Process for the manufacture of new condensation products, consisting in heating 2 molecular proportions of acetaldehyde, in the presence of an inert solvent, with 1 molecular proportion of α-naphthylamine, and then heating the condensation product thus produced with from about ⅓ to about ½ mol of other aromatic amines to the point of complete fusion.

1,923,799

BEARING CONSTRUCTION

George G. Reckwell, Danbury, Conn., assignor to The Ball & Roller Bearing Company, Danbury, Conn., a Corporation of Connecticut

Application November 9, 1928. Serial No. 318,231
9 Claims. (Cl. 29—148.4)



1. The herein described art of making an anti-friction bearing which consists in forcing a pair of members of soft sheet metal each into annular channel shape, forming a set of rolls each in general cylindrical form with the end portions diverging from the axes of the rolls, holding the rolls in proper bearing arrangement, placing one of said members over each end of the set of rolls with the corresponding tapering ends of the individual rolls disposed within the annular channel therein and compressing each of the walls of said members inwardly over said end portions to form an interlocking connection between the members and the corresponding ends of the rolls.

2. In construction for anti-friction bearings, in combination, a set of rolls, parts extending from the opposite ends of said rolls, and a pair of circular members having annular channels facing said parts at both ends of said rolls and having walls interlocking with said parts while permitting rotation of said rolls about their axes and about the axes of said members.

1,923,800

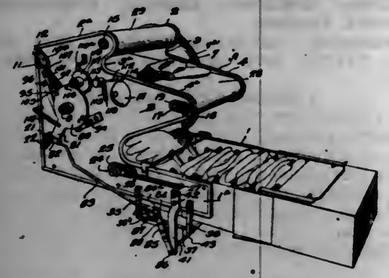
IRONING AND PRESSING MACHINE

Calvin John Shimer, Fort Wayne, Ind., assignor to The Boss Manufacturing Company, Kewanee, Ill.

Original application May 8, 1928, Serial No. 276,114. Divided and this application January 16, 1931. Serial No. 509,208
36 Claims. (Cl. 68—13)

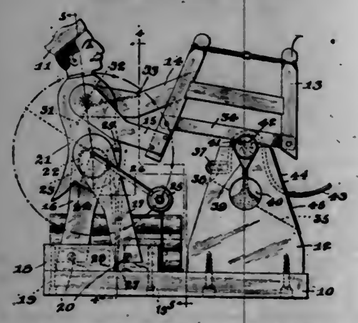
1. In a machine for pressing gloves and the like, the combination of cooperating movable

presser members arranged to receive gloves therebetween, a signal, a movable actuating member for the signal operatively associated with one of said presser members, and one of said presser members being bodily movable under the action



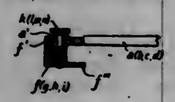
of the gloves passing between the presser members for imparting movement to said actuating member, and mechanism interposed between the actuating member and the signal for operating the latter after a predetermined number of gloves has passed between the presser members.

1,923,801
WOOD SAWING TOY
Clarence P. Slagle, Selah, Wash.
Application April 4, 1933. Serial No. 664,424
2 Claims. (Cl. 46—40)



1. In a wood sawing toy, a saw-horse, a buck-saw movable back and forth above the horse, a manikin having fixed legs and a movable body with arms connected to the buck-saw, an eccentric supported by said legs and supporting the body, and a pivoted and swinging link connection between the body and a fixed point.

1,923,802
RACKET PRESS
Theodor Stolk, Berlin, Germany
Application November 4, 1932, Serial No. 641,289, and in Germany November 30, 1931
5 Claims. (Cl. 273—74)

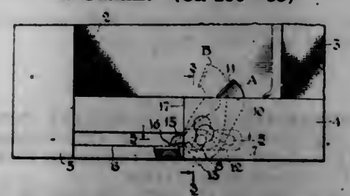


1. An articulated racket press, comprising, in combination, a cross, the ends of the legs of which lie in one plane and are provided with guide slots; clamping members guided in said slots, and means for moving said clamping members in said slots.

1,923,803
BRIQUETTE AND METHOD OF PRODUCING SAME
Walter E. Trent, New York, N. Y., assignor to Trent Process Corporation, New York, N. Y., a Corporation of Delaware
No Drawing. Application October 16, 1930 Serial No. 489,223
7 Claims. (Cl. 75—73)

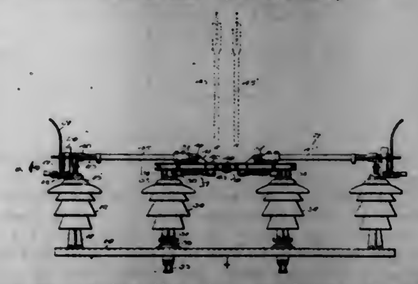
1. A process which comprises purifying coal by amalgamating the same with hydrocarbon oil in the presence of water and separating the resultant amalgam, mixing with the amalgam a metallic substance to be heat treated in the presence of carbon, distilling the mixture to remove water and light fractions of the oil and briquetting the same, and carbonizing the briquettes.

1,923,804
LOCKING DEVICE FOR EXTENSIBLE SCREENS AND THE LIKE
George T. Williams and Walter F. Story, Suffolk, Va., assignors to National Screen Company Incorporated, Suffolk, Va., a Corporation of Virginia
Application April 7, 1933. Serial No. 665,002
12 Claims. (Cl. 156—38)



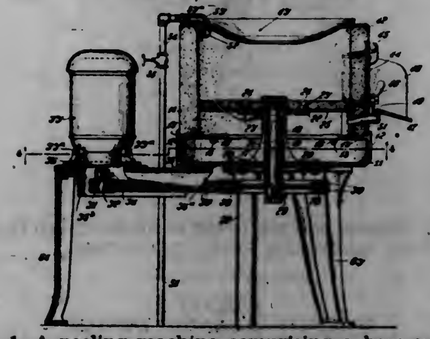
10. A metallic locking device adapted to be mounted for pivotal movement comprising a relatively flat main body portion having a key-hole cut-out near its base, and oppositely-bent portions extending from one edge and at opposite ends thereof.

1,923,805
DOUBLE DISCONNECT SWITCH
Alfred Alsaker and Elias S. Cornelissen (called Cornell), Chicago, Ill., assignors to the Delta-Star Electric Company, Chicago, Ill., a Corporation of Illinois
Application December 4, 1929. Serial No. 411,434
10 Claims. (Cl. 200—48)



1. In combination, two insulators, a support upon which the insulators are rotatably mounted at one end, a frame member mounted on the opposite end of both insulators, two sets of switching means mounted on the frame, and connecting means between the respective insulators and the switching means for selectively operating the switching means by operation of the respective insulators.

1,923,806
PEELING MACHINE
George P. Anstiss, River Forest, Ill., assignor to G. S. Blakeslee & Co., Cicero, Ill., a Corporation of Illinois
Application August 7, 1930. Serial No. 473,571
2 Claims. (Cl. 146—49)



1. A peeling machine comprising a base provided with a plurality of spaced openings therein, a cylindrical receptacle having an abrasive inner surface, a plurality of vertical rods extending through the walls of said receptacle and through the openings in the base for securing said receptacle to said base, a door at one side of said receptacle, and a rotary bottom plate in said receptacle, said rods and said openings being equidistant from each other whereby said receptacle may be secured to said base in a plurality of predetermined positions, to vary the position of the door with respect thereto.

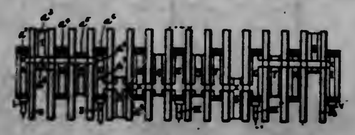
1,923,807
ILLUMINATING DEVICE AND METHOD OF MANUFACTURING SAME
Joseph Charles Asch, Montreal, Quebec, Canada
Application December 10, 1932 Serial No. 646,738
4 Claims. (Cl. 40—130)



1. As a new article of manufacture, an illuminating device comprising a frangible transparent container, a transparent setting material surrounding the container and a thermo-plastic material between the setting material and the container.

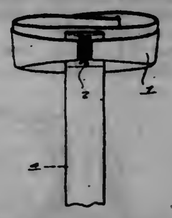
1,923,808
CRANK-SHAFT LUBRICATION
Jean A. H. Barkeij, Los Angeles, Calif.
Application January 8, 1927. Serial No. 162,920
5 Claims. (Cl. 184—6)

1. In a crankshaft, the combination of a journal pin connected by a crank arm to a crank pin, said pins rotating in plain bearings located in an engine, an oil conduit to the bearing of said journal, pin, said oil conduit communicating with an oil conduit in said journal pin at a point between the surface and center of said journal pin,



said second conduit connecting with a third conduit leading to the surface of said crankpin, and means to force under pressure oil to said journal-pin-bearing.

1,923,809
DEVICE FOR KEEPING AN INFANT UNDER CRIB COVERS
Fannie A. Bates, West Palm Beach, Fla.
Application June 24, 1931. Serial No. 546,636
1 Claim. (Cl. 128—134)

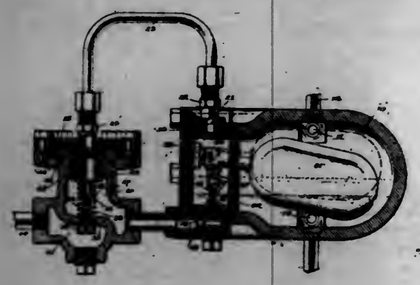


A restraining appliance for maintaining an infant in a bed comprising an inelastic fabric body embracing band designed and proportioned to completely surround the infant's body, the central portion of the band being relatively wide to comfortably cover the abdomen of the infant and said band being formed with a single transverse slit spaced from the center of the band, the opposite end portions of the band gradually decreasing in width from the central abdominal portion and being adapted to pass rearwardly in opposite directions and overlapping relationship across the back of the infant, one of the band-ends being passed through said slit, and the free ends of both end portions being adapted to be carried forwardly in a manner to overlie the aforesaid wide abdominal portion of the band, a plurality of companion fastening tapes secured to the extremities of said band-ends to be tied together, an elongated inelastic fabric retention strap disposed at right angles to the central portion of said band, said strap being substantially the same width as the abdominal portion of the said body band, the inner end portion of said strap being superimposed on the outer face of the aforementioned abdominal portion of the band for substantially its entire width and being stitched thereto to underlie the tapes and band-ends, and means carried by the outer end of the strap for anchorage on a predetermined portion of the bed.

1,923,810
EXPANSION VALVE
John G. Bergdoll, York, Pa., assignor to York Ice Machinery Corporation, York, Pa., a Corporation of Delaware
Application March 14, 1932. Serial No. 598,840
9 Claims. (Cl. 62—8)

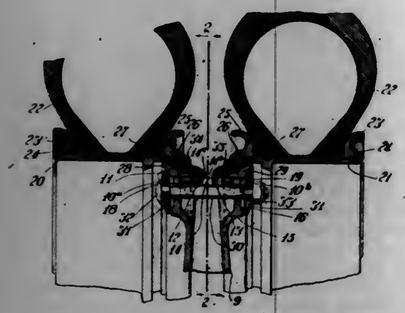
5. The method of expanding refrigerant in a plurality of stages, which comprises varying the

expansion ratio in the last stage to maintain a



substantially constant ratio in a prior stage.

1,923,811
WHEEL FOR MOTOR VEHICLES
Frederick W. Burger, Niles, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a Corporation of Michigan
Application June 11, 1927. Serial No. 198,035
11 Claims. (Cl. 301—12)



11. A dual rimmed wheel comprising a wheel body arranged to support separate tire carrying rims mounted on the peripheral portion thereof, means for spacing said rims apart including spacing rings both removable from the same side of the wheel body and abutment means disposed radially inwardly with respect to the peripheral surface of said wheel body, said abutment means acting to position the spacing rings in planes at right angles to the axis of the wheel body, and wedge rings at opposite sides of the wheel body shiftable laterally along the peripheral portion thereof and bearing against the adjacent margins of said rims for securing the latter on the wheel body.

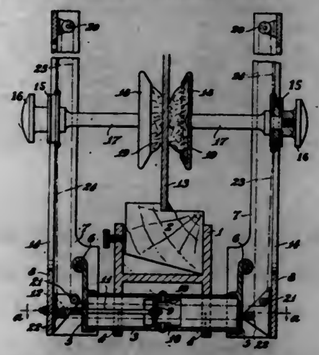
1,923,812
TENSIONING DEVICE FOR WIRES, CORDS, OR METAL RODS
Jacques Chobert, St.-Etienne, Loire, France
Application January 16, 1933, Serial No. 652,050, and in France January 19, 1932
5 Claims. (Cl. 24—126)

1. In a tensioning device for wires, cords or metallic rods, a fixing and mooring member, a hollow tensioning member adjustably mounted within the foregoing fixing member, a stretching wire passing through the hollow tensioning member, a thimble member mounted on the extremity of the stretching wire, the said thimble member being housed in the interior of the fixing member in such a way that it is able to slide within the



said member without power to rotate and so that it bears against the tensioning member.

1,923,813
WINDOW CLEANING DEVICE
Andrew Dixon, Newcastle-upon-Tyne, England
Application August 16, 1932, Serial No. 629,074, and in Great Britain October 16, 1931
3 Claims. (Cl. 15—252)

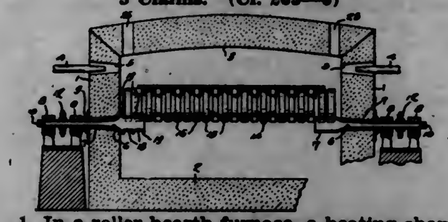


1. A window cleaning device of the character described comprising a carrier to be engaged with a sash, a horizontal member rotatable in said carrier, a bracket at each end of said member, a vertical arm pivoted adjacent to but above its lower end to each bracket, yieldable means connecting said arms below their pivots and tending constantly to urge the lower end portions of said arms apart thus to urge the upper end portions of said arms relatively inwardly, a block slidable along each arm above its pivot, wipers carried by said blocks, and means connecting said blocks operable when either of the same is slid along its related arm to impart corresponding sliding movement to the other block.

1,923,814
NITRIDING
John J. Egan, Brooklyn, N. Y., assignor to Electro Metallurgical Company, a Corporation of West Virginia
No Drawing. Application August 11, 1931
Serial No. 556,465
7 Claims. (Cl. 148—16)

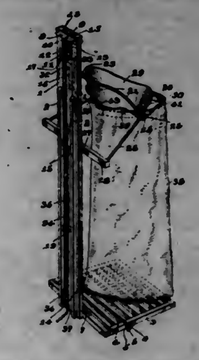
2. The method of producing nitrogen-containing coatings on a ferrous alloy article which comprises heating said article in contact with activated silica sand and a gaseous nitriding agent.

1,923,815
FURNACE
Frank A. Fahrenwald, Chicago, Ill.
Application February 24, 1931. Serial No. 517,848
5 Claims. (Cl. 262—6)



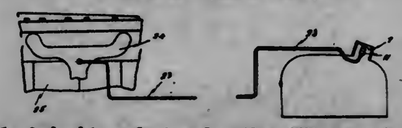
1. In a roller hearth furnace, a heating chamber with spaced side confines, rotary supports distributed along the inner surfaces of said confines, and roller hearth units resting upon said supports; said units having relatively thin continuing walls undulating longitudinally of the units and without internal flanges or radially or approximately radially extending walls and providing raised tread portions alternating with reentrant portions, and the portions of the walls forming the sides of the raised portions being at angles of depression from the horizontal supporting plane of the treads, not exceeding about 50° and the included angle between two such inclined surfaces being not less than about 80°.

1,923,816
ADJUSTABLE HOLDER FOR GRAIN AND THE LIKE BAGS OR SACKS
Milton Firl, Meyersdale, Pa.
Application December 6, 1930. Serial No. 500,619
6 Claims. (Cl. 83—26)



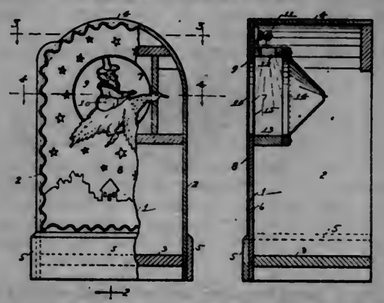
1. A bag holder including a vertically disposed frame structure, a member vertically slidable on said frame, a bag mouth receiving and holding member mounted and supported on said slidable member and disposed in normally horizontally disposed position spaced outwardly from said frame structure and slidable member, and adjustable means normally yieldably maintaining said slidable member and bag mouth holding member carried thereby in elevated position, the said adjustable means including a pulley mounted at the upper end of said frame structure above said slidable member, a cable secured to the slidable member and extending over said pulley and downwardly therefrom along the frame structure, and a tension member adjustably secured between the frame structure and the lower end of said cable, said tension member normally yieldably raising and maintaining said slidable member in elevated position on said frame structure.

1,923,817
ATMOSPHERIC PRESSURE OPERATED LOCKING MECHANISM
Harry Friedman and Carl Hochmuth, Vancouver, British Columbia, Canada
Application December 1, 1931. Serial No. 578,410
3 Claims. (Cl. 70—90)



1. A locking device for the filling neck and cover of a gasoline tank which is adapted to be operated by the difference in pressure between the atmosphere and the intake manifold of an automobile engine, said device comprising a body member having a cylindrical bore, a spring and an atmospheric-pressure actuated plunger fitting said bore and projecting beyond one end thereof, a closure member fitting the opposite end of said bore and having a port therethrough and having a seat for one end of said plunger when the latter is retracted within the bore.

1,923,818
RADIOCABINET
Leonard Fuller, Grand Rapids, and Karl F. Schmidt, Ada, Mich.
Application April 16, 1932. Serial No. 605,604
1 Claim. (Cl. 40—132)

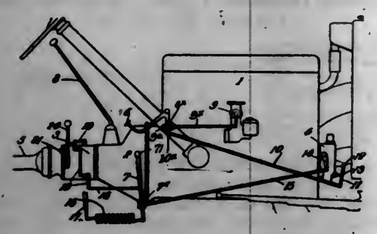


In a radiocabinet having a sound emitting opening in its front face, a pictorial representation disposed over said front face having an opening therein in registration with said sound emitting opening and forming a part of said pictorial representation whereby said sound emitting opening is disguised, and illuminating means associated with said sound emitting opening whose light rays are adapted to shine through the opening forming a part of said pictorial representation.

1,923,819
TRANSMISSION SYSTEM
Edward Henry James Cecil Gillett, West Hampstead, London, England
Application December 7, 1929, Serial No. 412,461, and in Great Britain July 23, 1929.
29 Claims. (Cl. 192—.01)

1. In a power transmission system including a prime mover and a driven shaft, a friction clutch, spring means tending to engage the clutch, clutch withdrawal spring means of greater strength than the engaging spring means, a power means independent of the driven shaft and deriving power from the prime mover to overcome the clutch withdrawal spring means and allow the engaging spring means to engage the

clutch, said power means embodying incompressible operating means so that the rate of engagement of the clutch is proportional to the



absolute speed of the prime mover, control means for the power means and automatic means operative when the clutch is fully engaged to limit the force exerted by the power means.

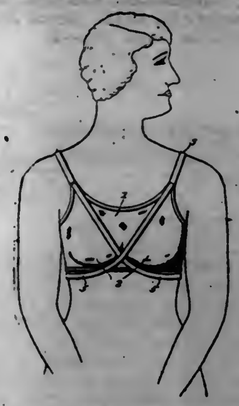
1,923,820
SLIDING-BARREL ROTARY-CUTTER-SPINDLE CUTTER HEAD
George Gorton, Racine, Wis.
Application April 10, 1931. Serial No. 529,157
9 Claims. (Cl. 308—3)



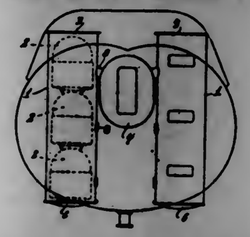
1. In a machine tool cutter head assembly, a cutter-head-assembly supporting housing at its lower end forming a progressively contractile split ring clamp having a cylindrical bore maintained throughout its contraction; a barrel longitudinally arranged and slidable in said housing; a rotary cutter spindle mounted in and carried by said barrel; and a radially contractile non-split bearing and guide bushing having a capacity for repeated barrel tightening compressions while constantly maintaining cylindrical form, said bushing slidably surrounding the lower end of said barrel within and fixedly held by said clamp and adapted to be compressed by the clamp to contract the bushing to accurately engage the barrel with a sliding fit.

1,923,821
BRASSIÈRE
Caroline Gudeman, Fort Wayne, Ind.
Application August 10, 1932. Serial No. 628,241
1 Claim. (Cl. 2—42)

A brassière comprising a body, shoulder straps connected, at their ends, to the body, and waist encircling straps connected, at one end, to the ends of the body, and at their other ends to the body at a point immediately adjacent the forward ends of the shoulder straps, said straps being crossed at the back and extending around the waist beneath the busts of the wearer and further being re-crossed between the busts of the wearer.

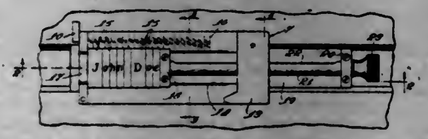


1,923,822
MINE STORING MEANS IN SUBMARINES OF THE SINGLE HULL TYPE
Maximiliaan Frederik Gunning, Flushing, Netherlands, assignor to Naamloose Vennootschap: Koninklijke Maatschappij "De Schelde," Scheepsbouw-en Werktuigenfabriek, Flushing, Netherlands, a Corporation of the Netherlands
Application November 4, 1930, Serial No. 493,368, and in the Netherlands December 31, 1929
3 Claims. (Cl. 114—17)



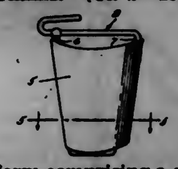
1. A submarine minelayer of the single-hull type, comprising means for storing mines, said means including superposed pressure-proof cylinders, in each one of which one or more mines may be stored, the superposed pressure-proof cylinders being connected by means of watertight flanges.

1,923,823
MATRIX STICK
Arthur H. Hedly, Chicago, Ill., assignor to Ludlow Typograph Company, Chicago, Ill., a Corporation of Illinois
Application June 29, 1932. Serial No. 620,007
8 Claims. (Cl. 199—47)



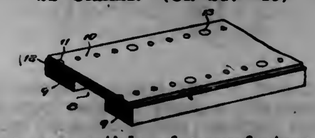
1. A matrix stick comprising a frame portion for receiving the matrices, and means for clamping the matrices in said frame portion comprising a threaded rotatable shaft, a member at the side of said shaft and movable toward and away from said shaft, threads on said member and shaft and yielding means urging said member into engagement at its thread with the thread on said shaft, said shaft and member being relatively slidable in a direction lengthwise of said shaft toward matrix-clamping position and said threads being so shaped as to permit said member to idle in said relative movement of said shaft and member.

1,923,824
TIE FORM
Harle J. Heitzman, Cloverdale, Ohio
Application February 2, 1932. Serial No. 590,485
4 Claims. (Cl. 2—153)



1. A necktie form comprising a convex-concave plate having two opposite edges bent on the concave or back side of the plate into open tubular retainers, a wire bent into a polygonal shape and providing opposite straight side portions in and secured by the tubular retainers, a straight transverse member connecting the straight side portions at one end, a guide on and extending beyond one end of the transverse member and having a portion spaced above the transverse member, and tie clamping means carried by and between the lower ends of the straight side members, said clamping means comprising a clamp arm extending transversely of the plate from the lower end of each straight side member, a return bend on the free end of each of said clamp arms, a connection between the return bends, one of the clamp arms and the connection being adapted to act with the remaining clamp arm for receiving and holding a portion of a necktie pressed therebetween.

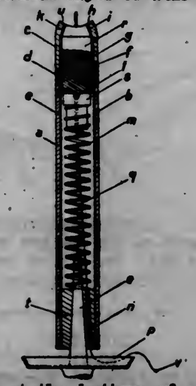
1,923,825
MOLDING FOR GROUND WIRES AND THE LIKE
Alfred Herz, Chicago, Ill., assignor of one-half to Edmund O. Schweitzer, Chicago, Ill.
Application June 11, 1927. Serial No. 198,295
21 Claims. (Cl. 247—40)



2. As a new article of manufacture, a substantially rectangular molding of flexible material, and a reinforcement secured to said molding.

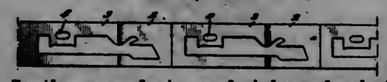
1,923,826
CANDLE STICK
Max Högg, Mannheim, Germany
Application November 12, 1930
Serial No. 495,163
3 Claims. (Cl 67—37)

1. In a candle stick having the outside appearance of a candle, a tube as outer guide for an ordinary candle, a conically-shaped hood made of fire-proof material and secured to the top of said candle-guide, an intermediate collar of heat-insulating material between the hood and the tube, said tube consisting of an inner layer of paper and an outside layer of wax-like material,



a wooden plug at the bottom of said tube and a helical spring between plug and candle and adapted to keep the candle pressed tightly against the conical top of the hood.

1,923,827
METHOD OF FORMING SINKERS FOR KNITTING MACHINES
Laurence B. Holt, Laconia, N. H., assignor to Scott & Williams, Incorporated, New York, N. Y., a Corporation of Massachusetts
Application October 24, 1932. Serial No. 639,348
5 Claims. (Cl. 29—170)



1. In the manufacture of sinkers for knitting machines the steps of reducing the thickness of an annealed strip at regular intervals and punching an index hole adjacent each reduced portion, tempering the strip while holding the strip under tension and punching sinkers from sections of the strip comprising a portion of reduced thickness and an adjacent portion of regular thickness.

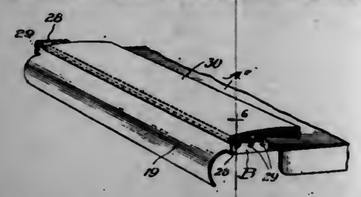
1,923,828
METHOD OF DEENAMELING
Joseph Janeta, Jr., Chicago Heights, Ill., assignor to Victor Chemical Works, a Corporation of Illinois
No Drawing. Continuation of application Serial No. 425,728, February 3, 1930. This application December 31, 1931. Serial No. 584,287
4 Claims. (Cl. 87—5)

1. The method of removing vitreous enamel from metal articles which consists in immersing them at atmospheric pressure in a caustic soda solution of at least 30% strength, at a temperature as high as the boiling point of a 30% solution thereof, and for a time sufficient to remove the enamel.

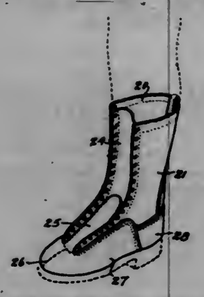
1,923,829
AUTOGRAPHIC REGISTER
Louis Jensen, Chicago, Ill., assignor to United Autographic Register Co., Chicago, Ill., a Corporation of Illinois
Application March 30, 1931. Serial No. 526,535
1 Claim. (Cl. 282—12)

In an autographic register, a casing equipped with a platen provided at its front end with reg-

ister-pins and equipped at its rear end with rods which are pivotally mounted at one end and which detachably engage at the other end catches with which the platen is equipped, carbon-protecting aprons engaging said rods, and a guide at the rear end of the platen over which stationery strips may be drawn onto the platen, the strips being threaded between said rods.



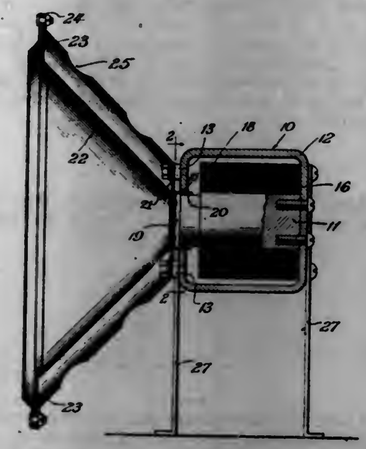
1,923,830
SHOE
Thomas O. Johnsen, Tacoma, Wash.
Application October 26, 1931. Serial No. 571,209
1 Claim. (Cl. 36—45)



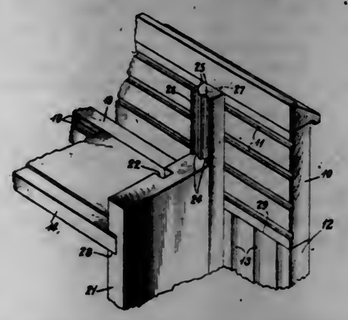
A logger shoe having an upper integral and seamless throughout the shank part thereof and provided with lacing flaps connected to each other by a bellows tongue, said upper having a portion thereof extending forwardly from the counter part to form the toe of the shoe, the toe parts of the upper meeting the lower edge of the bellows tongue, and a toe cap extending over the toe parts of said upper and into the lacing opening to form a tongue secured to the said bellows tongue and extending upwardly thereon for the greater part of its length, said toe cap also having formed integrally therewith side portions which extend rearwardly toward the counter of the shoe and upwardly to the joint formed by the connection between the bellows tongue and the lacing flaps on opposite sides of the upper, one of said side portions extending around the counter of said upper to meet and be secured to the end of the other side portion at one side of the shoe.

1,923,831
SOUND REPRODUCING DEVICE
James G. Juhasz, Chicago, Ill.
Application May 27, 1931. Serial No. 540,445
1 Claim. (Cl. 179—115.5)

A sound reproducing device comprising an electro-magnet having a central pole-piece and an outer pole-piece, said pole-pieces co-operating to form an annular magnetic field, a winding on said central pole-piece adapted to be connected to a source of direct current to energize the electro-magnet, a second winding on said central pole-piece adapted to be connected to a source of current modulated by audio-frequencies, a cup-shaped member formed from magnetic material and provided with a cylindrical wall disposed in said magnetic field, a flexible member supporting said cup-shaped member for movement in said field, and a conical diaphragm having its smaller end fixed with respect to said cup-shaped member.



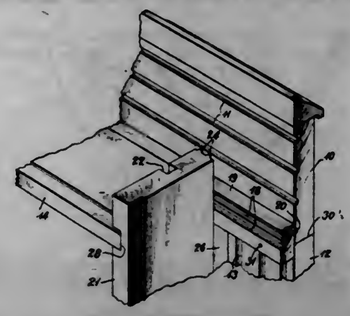
1,923,832
WINDOW FRAME
Henry G. Klopp, Spokane, Wash.
Application June 1, 1932. Serial No. 614,808
5 Claims. (Cl. 20—11)



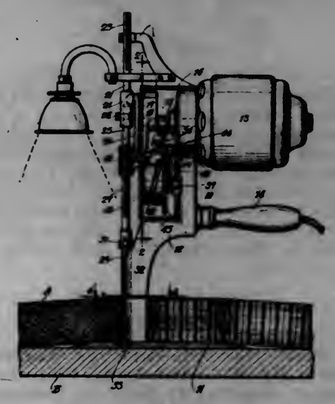
1. A window or like frame comprising outer casing members, a jamb member provided for each casing member, and blind stops interposed between the respective casing and jamb members, one of said blind stops traversing an end of the remaining blind stop to project laterally therefrom to traverse the full width of the casing member for said remaining blind stop for interconnecting and bracing the said casing members.

1,923,833
WINDOW FRAME
Henry G. Klopp, Spokane, Wash.
Application June 1, 1932. Serial No. 614,809
4 Claims. (Cl. 20—11)

1. In a window or like frame, a pair of outer casing members, a pair of jamb members, and a horizontal blind stop connected to and extending the entire horizontal dimension of all of the casing members and all of the jamb members.



1,923,834
CLOTH CUTTING MACHINE
Harry Lefkowitz and Gabriel Klein, Brooklyn, N. Y., assignors to Harry L. Frumovitz, Brooklyn, N. Y.
Application July 24, 1930. Serial No. 470,494
11 Claims. (Cl. 164—75)

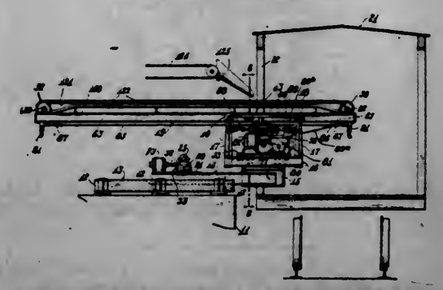


1. In a cloth cutting machine, a vertically shiftable knife blade, means for reciprocating said knife blade, and means for imparting reverse turning movement to said knife blade about its vertical axis during reciprocation of the same.

1,923,835
SURFACING MATERIAL AND PROCESS OF PREPARING SAME
Zanvil C. Loebel, New York, N. Y., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts
No Drawing. Application December 15, 1928
Serial No. 326,419
4 Claims. (Cl. 91—70)

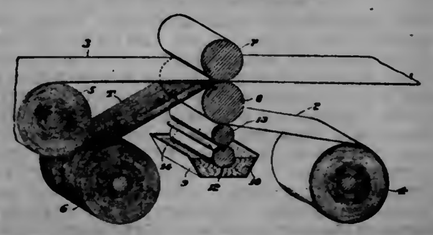
3. A method of coloring granules which consists in mixing crushed granular material with a substance that will react with soluble silicate to form an insoluble silicate, coating the granules with pigment, applying soluble silicate solution and drying the mixture by artificial heat above that of boiling water but below the point where the pigment will be injuriously affected by the heat.

1,923,836
LOADING MACHINE
George Manierre, Milwaukee, Wis.
Application February 27, 1932
Serial No. 595,517
26 Claims. (Cl. 198—3)



24. In a machine of the character described, including a carriage having a conveyor frame slidable therein, a belt conveyor in said conveyor frame, operating means for said belt on said carriage, means operable from either end of said conveyor frame to lock the belt to said conveyor frame for sliding the conveyor frame along said carriage upon operation of said belt conveyor, and means operable upon release of the belt lock to lock the conveyor frame against movement relative to the carriage.

1,923,837
GUMMED TAPE AND METHOD OF MAKING THE SAME
William W. McLaurin, Brookfield, Mass.; Old Colony Trust Company executor of will of said William W. McLaurin, deceased
Application October 9, 1930. Serial No. 487,450
7 Claims. (Cl. 154—2)

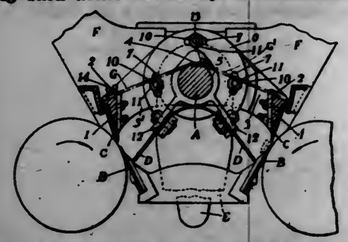


1. That improvement in processes of manufacturing reinforcing and sealing tape which consists in adhesively securing a series of threads to a web of paper with the threads running approximately parallel to the edges of the web, making a tube from the paper so reinforced, and then slitting the tube in a direction diagonally disposed with reference to said threads.

1,923,838
COTTON GIN
Brian McLaren Middleton, Bedford, England, assignor of one-half to W. G. Armstrong Whitworth & Company, (Engineers) Limited, Newcastle-upon-Tyne, England
Application June 1, 1931, Serial No. 541,411, and in Great Britain June 2, 1930
8 Claims. (Cl. 19—52)

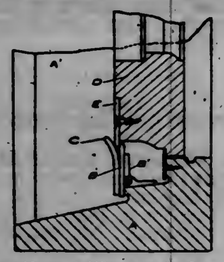
1. A double roller gin of the Macarthy type comprising a beater shaft and knives adapted to move with said shaft, oppositely disposed single

arms mounted at each end of and adapted to move with said shaft, means for angularly adjusting said arms relatively to the beater shaft



and to one another, pairs of said arms being adapted to have the said knives mounted between them.

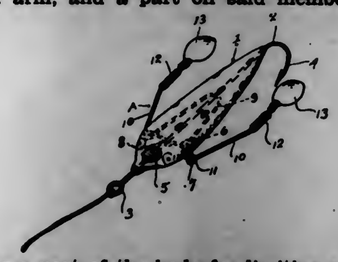
1,923,839
WEATHER EXCLUDING DEVICE FOR CLOSURES
John Caldwell Muir, Carluke, and Robert Loudon, Cleland, Scotland
Original application January 23, 1931, Serial No. 510,823, and in Great Britain July 2, 1930. Divided and this application September 21, 1931, Serial No. 564,216. Renewed July 3, 1933
1 Claim. (Cl. 20—66)



The combination with a window frame and a window sash hinged therein and having its base rail cut along its bottom face to provide a recess and a projecting flange, a storm plate comprising a flat strip attached to rest flush along the front face of the base rail with is lower edge extending downwardly into the recess, the said window frame having a recess therein in register with the recess in the window sash to form a pocket, a hinged plate mounted on the window frame with its upper edge engaging the lower edge of the storm plate to provide an upright wall closing the pocket, a striker arm attached to said hinged plate to engage the storm plate upon movement of the same, a stop plate attached to the inner wall of the pocket and projecting upwardly therefrom to engage the flange on the window sash in closed position and limit the inward movement of the hinged plate to keep the striker arm in the path of the storm plate, and means carried by the window frame and window sash to hold the parts in closed position.

1,923,840
FISH LURE
Floyd Allan Osburn, Los Angeles, Calif.
Application June 20, 1932. Serial No. 618,331.
3 Claims. (Cl. 43—39)

1. A fish lure comprising a body, a hook having its shank passing longitudinally thru the body, a member swingingly connected to the forward part of the body and having rearwardly and outwardly extending arms spaced from the sides of the body, a spinner swivelled on the rear end of each arm, and a part on said member for



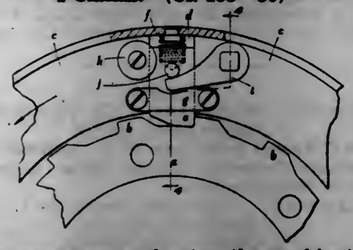
engaging a part of the body for limiting swinging movement of said member in one direction.

1,923,841
SAFETY BRAKE-BEAM SUPPORT FOR CAR TRUCKS
Raymond C. Pierce, Chicago, Ill., assignor to General American Tank Car Corporation, Chicago, Ill., a Corporation of West Virginia
Application December 11, 1930. Serial No. 501,706
5 Claims. (Cl. 188—210)



5. The combination of a railway-car truck having a brake-beam, said truck having a portion containing vertical slots, a brake-beam-support bar having its lower edge notched and extending through said slots and interlocked at its notched portion with said portion of said truck, a spring extending crosswise of said bar and bearing downwardly against said bar, and means preventing longitudinal displacement of said spring crosswise of said bar.

1,923,842
SPRAG GEAR MECHANISM
James Pratt, Newcastle-on-Tyne, England, assignor to Sir W. G. Armstrong, Whitworth and Company (Engineers) Limited, Newcastle-on-Tyne, England, a British Company
Application March 12, 1931, Serial No. 522,089, and in Great Britain March 29, 1930
4 Claims. (Cl. 188—30)



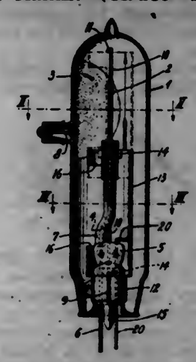
1. In sprag gear mechanism the combination of a rotating member forming a part of the transmission, a fixed ratchet member in substantially the same plane as the said rotating member, a radial groove in the said rotating member, a sprag adapted to slide with rectilinear motion in the said groove and spring means for normally urging the sprag to engage with the ratchet member.

1,923,843
METHOD OF PRODUCING COMPOSITE SLABS
Albert F. Premo, Springfield, Mass.
Application July 10, 1930. Serial No. 467,041
1 Claim. (Cl. 41—23)



The method of making a terrace floor or the like which consists in, cutting transversely a relatively flat composite slab including a plurality of irregular shaped pieces of stone having relatively flat faces imbedded therein with the flat faces uppermost to provide units of regular shape having substantially straight marginal edges, reassembling said units with their faces uppermost and their marginal edges in parallelism and closely adjacent to form a design wherein the said faces of the stone pieces are in a relationship different from their original relationship of present units of irregular appearance but regular shape bounded by substantially regular strips between the units, and then in securing said units together by cement between their adjacent parallel edges and in said regular strips.

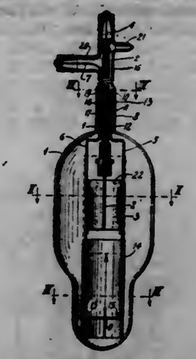
1,923,844
PHOTO-ELECTRIC DEVICE
Harvey Clayton Rentschler, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania
Application January 14, 1931. Serial No. 508,568
5 Claims. (Cl. 250—27.5)



1. An electron discharge device comprising an envelope transparent to ultra violet light of wave lengths less than about 3200 angstrom units, an anode and a photo sensitive cathode therein, said cathode being composed of zirconium, said cathode being sensitive to substantially all radiations between about 3200 and 2600 angstrom units and substantially insensitive to radiations above about 3300 angstrom units.

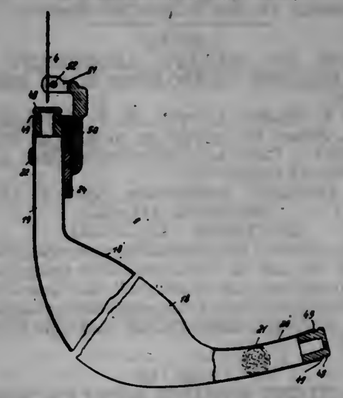
1,923,845
PHOTO-ELECTRIC DEVICE
Harvey Clayton Rentschler, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania
Application January 14, 1931. Serial No. 508,569
8 Claims. (Cl. 250—27.5)

1. An electron discharge device comprising an envelope transparent in part to radiation of wave lengths less than about 3000 angstrom units, an



anode and a photosensitive cathode therein, said cathode being composed of vanadium.

1,923,846
BLOOD TRANSFUSION APPARATUS
José Grifols y Reig, Barcelona, Spain
Original application March 16, 1929, Serial No. 347,572, and in Germany March 24, 1928. Divided and this application October 10, 1930. Serial No. 487,876
1 Claim. (Cl. 128—214)

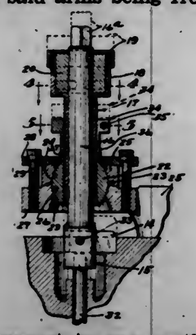


A blood transfusion apparatus comprising an evacuated vessel, two necks on said vessel, a readily pierceable stopper of elastic material held in place at the entrance of each neck, a clamping ring encircling one of said necks, a needle holder axially slidable on said ring and means for locking said holder in various positions on said ring.

1,923,847
VALVE SEAT CUTTING DEVICE
Frederick W. Seelert, Minneapolis, Minn.
Application May 31, 1930. Serial No. 458,195
2 Claims. (Cl. 90—12.5)

1. The combination with a tool for operating on valve seats comprising a cutting element, an arbor for said element, and a pilot stem adapted to be inserted into and closely engage a valve guide that cooperates with the particular valve seat to be operated on and to cooperate with said arbor to co-axially align the arbor with the valve guide, of an arbor supporting bearing in which said arbor is rotatably mounted, a pair of mounting arms for said supporting bearing, a ball and socket connection between said arms

and said arbor supporting bearing comprising substantially semi-spherical surfaces carried by said arbor supporting bearing, a lower half socket formed on one of said arms, and an upper half socket formed on the other of said arms, said arbor supporting bearing normally being free for universal movements in respect to both said arms, and said arms being free for pivotal



movements in respect to one another and said arbor supporting bearing, clamping means for positively locking said semi-spherical surfaces against movement in respect to said arms, and said arms against movement in respect to each other and means for feeding the arbor through its supporting bearing including external screw feed threads on the supporting bearing.

1,923,848
PROCESS OF MAKING ABSORBENT MATERIALS AND COMPOUNDS MADE THEREFROM

Charles P. Spaeth, Chester, N. J., and LeRoy V. Clark, Alton, Ill., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware

No Drawing. Application April 3, 1930 Serial No. 441,418 27 Claims. (Cl. 52—21)

1. The process for producing a combustible ingredient for use in high explosive compositions, which comprises impregnating a carbonaceous absorbent material with a non-explosive, amorphous, organic material, substantially insoluble in nitroglycerin.

1,923,849
PROPELLENT POWDER AND PROCESS OF MANUFACTURE

Oliver Ward Stickland and Edward Whitworth, Stevenston, Scotland, assignors to Imperial Chemical Industries Ltd., a Corporation of Great Britain

No Drawing. Application January 15, 1931, Serial No. 509,029, and in Great Britain January 25, 1930 10 Claims. (Cl. 52—13)

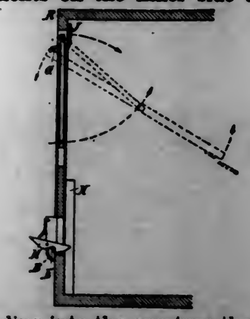
1. A composition of matter comprises nitrocellulose, nitroglycerin, diethyldiphenylurea and phenyl urethane.

1,923,850
TRAP NEST FOR HENS

Otto Strohschneider, Graz, Austria

Application April 4, 1931, Serial No. 527,734, and in Austria February 13, 1930 4 Claims. (Cl. 119—49)

1. A trap nest for hens, comprising in combination with the front wall of the nest having an aperture, a door in said aperture to close the nest, a frame extending along the upper edge and having two arms extending half way down the corresponding side of said door, and having holes at the upper end, screws hingedly connecting the lower ends of said arms to the sides of said door, a horizontal rod supported in said front wall extending across said aperture and through the holes in said arms adapted to allow the oscillation of said frame, stops on the inner side of the upper end of said door adapted to bear against the inner side of the upper portion of said wall when said door is in closed position, two abutments on the inner side of said front



wall extending into the aperture thereof adapted to limit the oscillation of said door around said screws when said door is in closed position, two pins extending laterally one from each side of the lower end of said door, and hooks on the outer side of said front wall one on each side of the aperture thereof adapted on said door being oscillated outwards around said screws and swung into the nest with said frame to engage said pins and hold said door in the inclined position.

1,923,851
RECORD BINDER

Paul O. Unger, Chicago, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a Corporation of Massachusetts

Application March 19, 1931. Serial No. 523,733 4 Claims. (Cl. 129—8)



2. In a record binder, a back member, hinge plates pivoted to the longitudinal margins of said back member, impaling posts secured to one hinge plate, a casing secured to the other hinge plate and having apertures for receiving the free ends of said impaling posts, a pintle slide in said casing, said pintle slide and impaling posts having interengaging means for locking said posts to said casing, and a movable finger piece upon said pintle slide adapted for interlocking with said casing when said pintle slide is in its inoperative position.

1,923,852
SLICING MACHINE

Cornelis F. M. van Berkel, Wassenaar, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana

Application June 10, 1929, Serial No. 369,879, and in Great Britain June 27, 1928 12 Claims. (Cl. 146—102)

1. A slicing machine comprising a reciprocating table, a slicing knife, a cross slide having a bearing thereon adapted to embrace a guide rod and be guided thereby, a guide rod on which

said bearing is slidably mounted, a laterally extending member on said bearing, a roller on said laterally extending member, and a wear

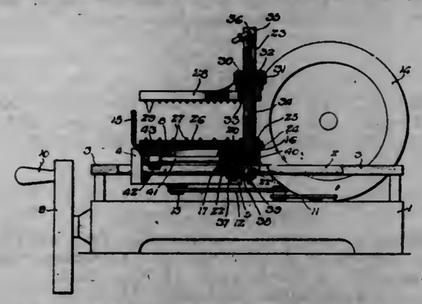
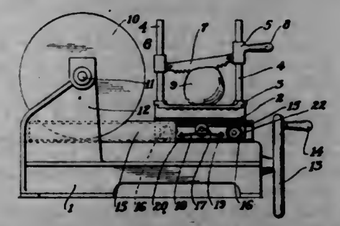


plate on said table against which the roller bears for guiding said roller along a fixed path whereby to prevent tilting of the table about said guide rod.

1,923,853
SLICING MACHINE GUIDE

Adrianus van Duyn, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana

Application January 31, 1929, Serial No. 336,521, and in Great Britain February 7, 1928 3 Claims. (Cl. 146—102)



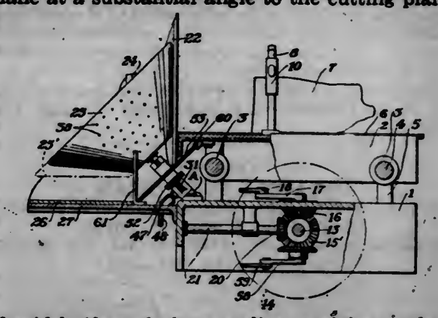
1. A slicing machine comprising a support, a carriage, a one-piece U-shaped guide on said support, a groove in one arm of the U-shaped member, a roller on said carriage adapted to co-operate with the groove, and yielding means for maintaining said roller in said groove, said yielding means comprising a second roller rotatably mounted on a pivoted lever on said carriage and a spring for urging said lever in a direction to bring the second roller into engagement with the opposite arm of the U-shaped guide.

1,923,854
SLICING MACHINE

Jetze van Hoorn, Voorburg, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana

Application February 13, 1929, Serial No. 339,539, and in Great Britain February 14, 1928 25 Claims. (Cl. 146—94)

1. In a slicing machine, the combination with a rotatable slicing knife having its cutting plane extending in a general upward direction, of a reciprocating material supporting table, and a slice transferring device adjacent the knife adapted to receive slices cut from the material by the knife comprising a substantially conical oscillating member having its axis of oscillation at such an angle that the portion thereof nearest the knife is in a plane substantially parallel with the plane in which the knife rotates, said portion being rotatable into a position in a plane at a substantial angle to the cutting plane

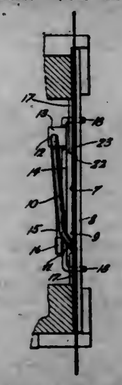


of said knife and above a slice receiving surface onto which the slices are deposited broad side down.

1,923,855
FILM CONTROL DEVICE

Alexander Ferdinand Victor, New York, N. Y.

Application May 17, 1929. Serial No. 363,768 3 Claims. (Cl. 88—18)

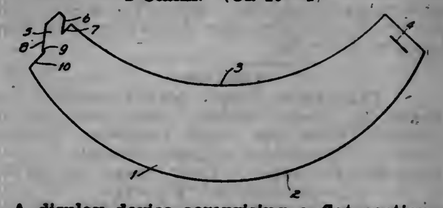


1. In motion picture apparatus, a film guide-plate having a light aperture, reciprocable feed devices that engage perforations in the film and intermittently move the latter past said aperture, and a spur formed integral with said guide-plate, said spur projecting from the face of the plate next the film and providing an abrupt lateral shoulder that enters the film perforations to prevent retrograde movement of the film.

1,923,856
DISPLAY DEVICE

Joseph J. Wasser, St. Louis, Mo., assignor to Pevely Dairy Company, St. Louis, Mo., a Corporation of Missouri

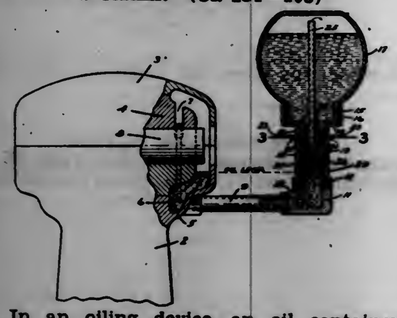
Application January 14, 1929. Serial No. 332,258 1 Claim. (Cl. 40—4)



A display device comprising a flat section of pliable material having its upper and lower edges curving on radii of the same length, said

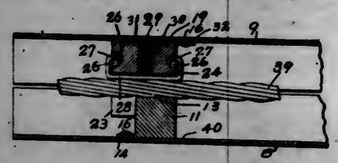
flat section being adapted to be rolled into tapered form with its ends overlapping and having the upper and lower edges of the overlapping portions of said ends approximately even with each other and one of said ends having a slit therein, and a tongue projecting angularly from the opposite end of said section and having approximately parallel side edges and being adapted to be inserted and withdrawn through said slit.

1,923,857
GRAVITY FEED OILER
Lynn L. Armantrout, Minneapolis, and Clarence R. McCue, Rochester, Minn.
Application May 31, 1930. Serial No. 457,770
2 Claims. (Cl. 184—103)



1. In an oiling device, an oil container, a closure cap therefor having a hole therethrough and a downwardly extended portion around the hole, an oil feed tube in said hole, a metal cylinder attached to the downwardly extended portion of the closure cap, a transparent cylinder inside of the metal cylinder, and abutting said downwardly extended portion of the closure cap, said metal cylinder having a sight opening opposite the bottom of the feed pipe and a vent pipe extending from near the bottom of the oil feed pipe to approximately the top of the container.

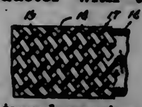
1,923,858
GUY WIRE GUARD
Jasper Blackburn, Webster Groves, and Henry W. Heller, St. Louis, Mo.; said Heller assignor to said Blackburn
Application July 25, 1930. Serial No. 470,650
15 Claims. (Cl. 189—31.5)



1. A guy wire guard comprising a pair of members, blocks with a central guy wire receiving recess therebetween, and means for interlocking said blocks whereby lateral movement of said blocks is prevented.

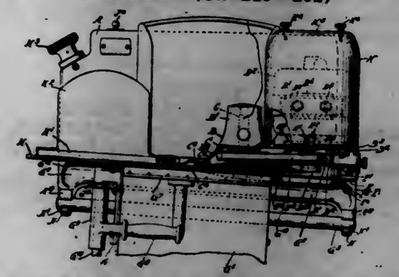
1,923,859
ELECTRIC CORD AND CABLE
Charles R. Boggs, Waban, Mass., assignor to Simplex Wire and Cable Company, Boston, Mass., a Corporation of Massachusetts
Application December 5, 1928. Serial No. 323,861
2 Claims. (Cl. 173—81)

2. A cable comprising an insulated conductor, a metallic shield about the conductor which includes a group of flat metallic strips wound helically around the conductor with one lay, a plurality of strands of cotton wound helically around the conductor with the opposite lay,



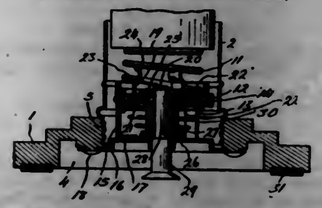
each strip and strand passing alternately over and under the strips which they cross, and a protective insulating layer over the shield.

1,923,860
SLICING MACHINE
William J. Campbell, Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill., a Corporation of New York
Application September 21, 1929
Serial No. 394,292
3 Claims. (Cl. 146—102)



1. In a slicing machine which includes a rotary knife and means for rotating it, a frame having a base, a seat for a motor formed in said base and including a plurality of adjacent stirrups conforming to the exterior of said motor, and a locking member adapted to engage the lower side of said stirrups and a removable connection between said locking member and said motor adapted to draw said locking member and motor into engagement with the opposite faces of said stirrups, the base being provided with an aperture adapted to give access to said locking member from beneath, and a slice receiving member adapted to mask said aperture when in operative position.

1,923,861
LIGHT
Burton S. Floraday, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Ohio
Application November 3, 1930. Serial No. 493,169
8 Claims. (Cl. 240—10.64)



1. In a light, a bulb, a source of electrical energy, and an electrical connection between said bulb and source having a switch, said switch comprising a stationary contact having contact faces spaced from each other longitudinally of said stationary contact and a contact movable longitudinally of said stationary

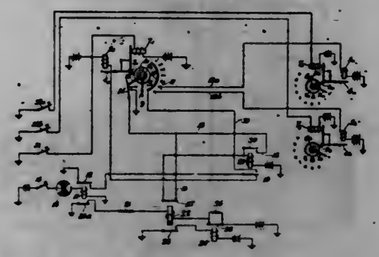
contact and having a contact face engageable alternatively with said first mentioned contact faces and means automatically operable upon removing the light from its support for effecting movement of the movable contact into engagement with one of the contact faces on said stationary contact and upon resting the light on its support to effect disengagement of the movable contact and latter contact faces.

1,923,862
HAIR WAVING HEATER
Ernest O. Frederics, New York, N. Y., assignor to E. Frederics, Inc., New York, N. Y., a Corporation of New York
Application February 15, 1929
Serial No. 340,095
22 Claims. (Cl. 219—24)



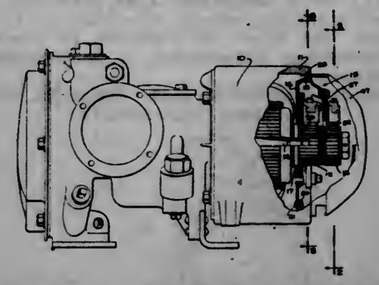
17. In a heater for use in hair waving operations, the combination of a heating element, a crescent-shaped container therefor, a supporting plate mounted on the convex side of said container, a clamping element independently mounted on each side of said supporting plate for movement toward the concave side of the container, and means to move said clamping elements toward said concave side to press the latter toward a winding of hair.

1,923,863
SLOW-TO-RELEASE RELAY
Ernest Frischknecht, East Orange, N. J., assignor to The Teleregister Corporation, New York, N. Y., a Corporation of Delaware
Application April 9, 1930. Serial No. 442,975
2 Claims. (Cl. 175—320)



1. The combination of a fast operating and slow-to-release relay, means for sending impulses over the coil of said relay, a non-inductive resistance in the circuit of said relay for limiting the current flow through said relay, a second non-inductive resistance, and means for throwing said second resistance into the circuit of said relay to reduce the value of the current over the coil of said relay to a holding value prior to the termination of the first impulse over the coil of said relay.

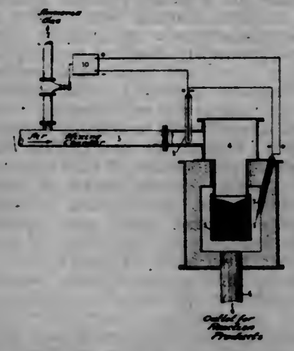
1,923,864
BRUSH PLATE ASSEMBLY
Herbert J. Graham and Lewis A. Darling, Philadelphia, Pa., assignors to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania
Application December 27, 1930
Serial No. 505,084
11 Claims. (Cl. 171—324)



1. A brush plate unitary assembly including a relatively rigid insulating supporting plate for a plurality of brush-holders, and a metal reinforcement for said plate extending about the peripheral edge thereof, said insulating supporting plate being maintainable in fixed position with respect to a support for said assembly by said metal reinforcement.

2. In a commutator brush rigging, a unitary assembly including an insulating supporting disk, a reinforcing member secured to and extending about the peripheral edge of said disk, and a second insulating disk supported by said reinforcing member in spaced, parallel relation with respect to said first disk.

1,923,865
TEMPERATURE CONTROL OF CHEMICAL REACTIONS
Stanley L. Handforth, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware
Application July 12, 1929. Serial No. 377,665
7 Claims. (Cl. 23—162)



1. In a method of controlling a chemical reaction, in which there is an increase in temperature, depending on the rate of supply of one or more of the constituents entering into the reaction, the steps which comprise determining the temperature of the materials entering into the reaction, determining the temperature following the reaction zone, and decreasing

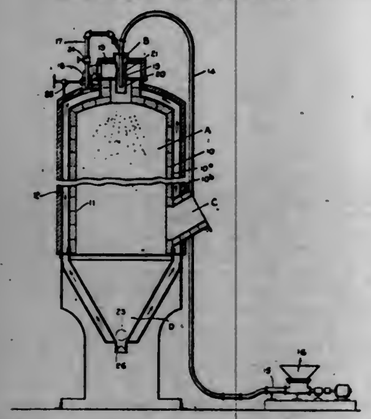
the supply of that constituent already present in less than stoichiometric ratio when the difference between these temperatures tends to increase above the predetermined value, and increasing said supply when this difference in temperatures tends to fall below a predetermined value.

1,923,866

SULPHUR BEARING ORE FURNACE

Ingenuin Hechenbleikner, Charlotte, N. C., assignor, by mesne assignments, to Chemical Construction Corporation, a Corporation of Delaware

Application October 26, 1929. Serial No. 402,595
18 Claims. (Cl. 23—278)



1. A furnace for burning sulphur bearing ore to produce sulphur dioxide for sulphuric acid manufacture comprising a combustion chamber, means for producing a spray of sulphur bearing ore fines and introducing said spray into said combustion chamber, means to pre-heat the oxidizing medium by means of the heat of combustion of the sulphur ore, and means for introducing the thus heated oxidizing medium into co-mixing relation with said spray for combustion of said ore and for the production of sulphur dioxide gases.

6. A furnace for burning sulphur bearing ore to produce sulphur dioxide for sulphuric acid manufacture comprising a combustion chamber, means for continuously feeding a spray of sulphur bearing ore fines into said combustion chamber, means for injecting an air stream into said ore spray, means for introducing secondary air into said chamber in a stream surrounding said ore spray, means for controlling said air streams to effect combustion of said ore and production of sulphur dioxide gases of predetermined concentrations, and means arranged in heat exchange relation with said combustion gases for preheating at least one of said air streams to relatively high temperatures.

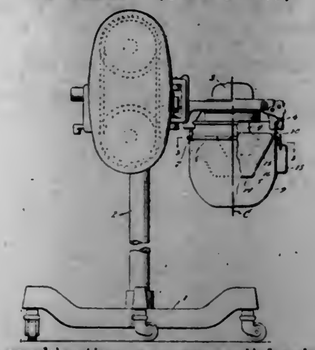
18. A furnace for burning sulphur bearing ore to produce sulphur dioxide for sulphuric acid manufacture, comprising a vertically disposed greatly elongated combustion chamber including top, intermediate, and bottom portions, means at the top portion of said combustion chamber for feeding sulphur bearing ore fines into said combustion chamber, means for introducing a stream of an oxidizing medium into said chamber for combustion of said ore and for the production of sulphur dioxide gases, and an exit duct for the combustion gases at the intermediate portion of the chamber, the bottom portion of said chamber being shaped to act as a hopper for the collection and discharge of ore cinders, said bottom portion being provided with heat exchange means for bringing the oxidizing medium into contact therewith, in order to preheat the oxidizing medium and cool the bottom portion.

1,923,867

KITCHEN APPLIANCE

Robert Hoe, Hyde Park, N. Y.

Application March 15, 1929. Serial No. 347,318
12 Claims. (Cl. 146—175)



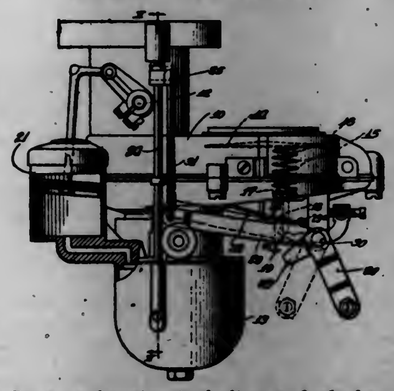
1. In combination, a power unit having a vertically disposed shaft, a receptacle having a substantially round flat bottom and conical sides extending upwardly from the bottom, means to support the receptacle beneath said shaft with the shaft eccentric to the bottom, a paddle on said shaft having a flat end substantially engaging the bottom of the receptacle and conical side edges adapted to substantially contact with said conical sides of the receptacle upon rotation of the shaft, and means to rotate said shaft about its own axis and about the center of the receptacle.

1,923,868

FUEL ENRICHING MEANS

Chester F. Johnson, Detroit, Mich.

Application March 21, 1930. Serial No. 437,666
5 Claims. (Cl. 123—119)



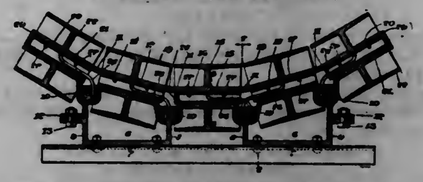
1. In a carbureter including a fuel chamber, a mixture outlet containing a throttle valve and a choke controlled air supply, a priming passage leading from below the fluid level in said fuel chamber to the mixture outlet above the throttle therein, means comprising an air bleed into said priming passage to normally render the same inoperative, and means for closing said air bleed to subject the priming passage to the suction in the mixture outlet above the throttle therein.

1,923,869

MEANS FOR OILING LOOSE PULLEYS OR THE LIKE

John D. Jones, Portland, Oreg.

Application June 5, 1930. Serial No. 459,271
12 Claims. (Cl. 308—107)



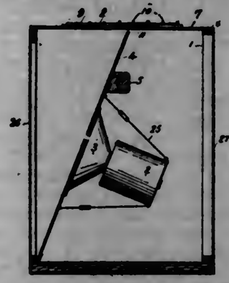
1. The combination with a supporting structure, of a fixed shaft having oil inlet and outlet openings spaced from the respective sides of a plane intersecting the axis of the shaft, an element loosely mounted on said shaft, and oil supply circulating ducts communicating with the respective openings internally of the shaft and with the oil supply in such manner that during the rotation of said element a uniform sustained influx and efflux of oil to and from the oil film space between the opposing surfaces of the said shaft and element are effected.

1,923,870

ELECTRIC AMPLIFICATION OF SOUNDS

Jean Kressmann, Bordeaux, France

Application March 6, 1930, Serial No. 433,573, and in France January 24, 1930
4 Claims. (Cl. 181—31)



1. In a mechanism for the electric amplification of sounds by means of electro-dynamic loud speaker, a box for said loud speaker, a light screen dividing said box into two compartments and supporting said loud-speaker in said sound box in a manner to allow free vibration of the cone of said loud speaker.

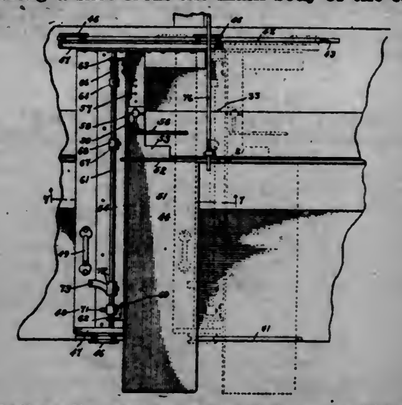
1,923,871

CAKE CUTTING MACHINE

John R. Litty and Trued B. Lundin, Philadelphia, Pa., said Lundin assignor to Elizabeth H. Litty, Philadelphia, Pa.

Application October 2, 1930. Serial No. 485,874
13 Claims. (Cl. 146—88)

1. A cake cutting machine comprising a main table, a cutting knife, a flexible strip conveyor operating at one side of the knife, a reciprocable slotted table for carrying a cake, said cutting knife operating in said slot of the table and severing a slice from the main body of the cake,



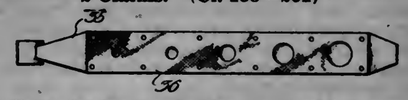
said slice after severance remaining on said table, and means for sliding the cake slices from said reciprocable table to said conveyor.

1,923,872

BRAKE MECHANISM

Malcolm Loughead, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a Corporation of California

Application November 6, 1928. Serial No. 317,592
2 Claims. (Cl. 188—261)



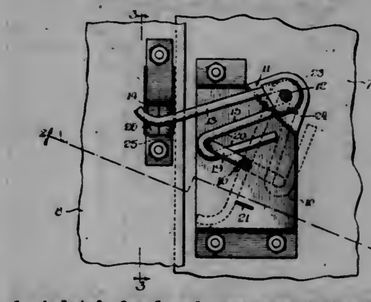
1. In a brake mechanism, a brake drum, a brake shoe having a surface opposing the drum, and a lining for the brake shoe having a plurality of apertures therein tapering in size from one end of the lining to the other whereby a portion of the surface of the shoe is subjected to heat radiation from the drum to the shoe.

1,923,873

CLOSURE LATCH

Norton A. Mears, Chicago, Ill., assignor to Chicago Forging & Manufacturing Co., Chicago, Ill., a Corporation of Illinois

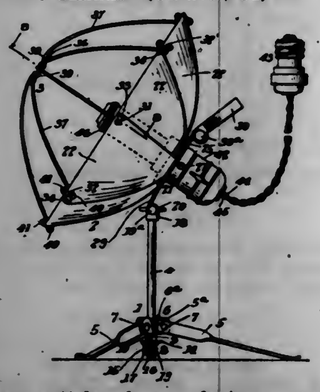
Application April 17, 1930, Serial No. 444,886
Renewed November 19, 1932
20 Claims. (Cl. 292—197)



1. A latch for hood covers and the like, comprising, in combination, a fixed abutment, a resilient lever fulcrumed on the cover for rotation in a plane parallel to the cover, one arm of said

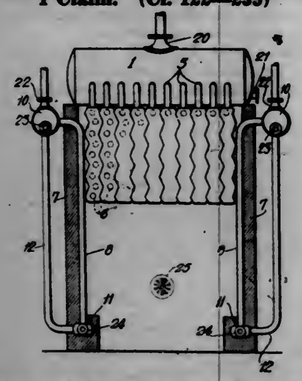
lever being adapted for engagement with said abutment and the other arm having a longitudinal guideway of substantial length, and a crank journaled at one end in said cover and engaging said lever at the other end for reciprocation in said guideway.

1,923,874
ELECTRIC HEATER
John C. Morgan, Los Angeles, Calif.
Application March 15, 1928. Serial No. 261,817
7 Claims. (Cl. 219—34)



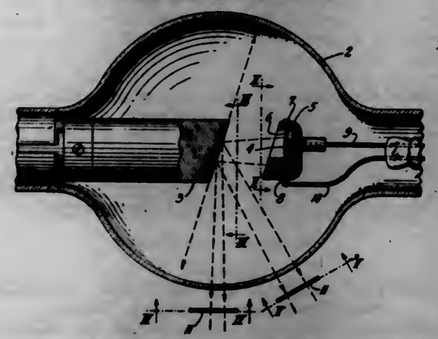
1. As an article of manufacture, a reflector comprising a mounting; a plurality of reflector sections turnably mounted on said mounting so that they may be folded into superimposed relation and unfolded around said mounting, said sections being provided with cooperating slots and pins at their outer corners for engagement with each other to hold the edges of said sections together.

1,923,875
BOILER
Thomas E. Murray, deceased, late of Brooklyn, N. Y., by Thomas E. Murray, Jr., Joseph B. Murray, and John F. Murray, executors, Brooklyn, N. Y., assignors to Metropolitan Engineering Company, Brooklyn, N. Y., a Corporation of New York
Original application November 9, 1923, Serial No. 673,654. Divided and this application April 18, 1930. Serial No. 445,271
1 Claim. (Cl. 122—235)



A steam generator having nozzle burners for projecting powdered coal or the like into the combustion chamber, a plurality of independent circuits each containing its own separate steam generating tubes and circulating connections, the steam generating tubes for the independent circuits being in the same casing, said casing comprising a wall of insulating material, at least one of said circuits comprising a set of upright steam generating tubes having metal surfaces exposed to the radiant heat of the burning fuel in the combustion chamber and having top and bottom headers which are protected from such radiant heat and are connected directly to the ends of the tubes, and direct water-return connections from the upper header to the lower one so as to effect a very rapid circulation and generation of steam and to prevent overheating of said tubes.

1,923,876
MEANS AND METHOD OF PRODUCING AN X-RAY FOCUS VARYING WITH THE X-RAY TUBE LOAD
Arthur Mutscheller, New York, N. Y., assignor to Wappler Electric Company, Inc., a Corporation of New York
Application February 25, 1931
Serial No. 518,050
6 Claims. (Cl. 250—35)

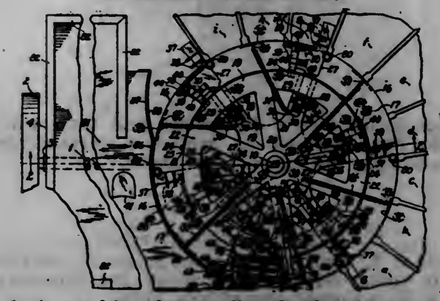


1. An X-ray tube comprising an evacuated envelope, an anode, a helically wound electron emitting cathode adapted to be electrically heated for producing a focal area upon said anode and having the convolutions thereof in closer proximity to each other at one portion thereof to produce a greater electron emissivity for a given temperature at that portion than the remaining portions, an electrostatic shield surrounding said cathode and in conductive communication therewith, said shield having the plane of one of its sides angularly disposed relative to the plane of said cathode to produce a greater electrostatic field concentration at one portion than the remaining portions and cooperating with the portions of said cathode having a lesser electron emissivity to maintain the emissivity of the latter below that portion of the cathode having a greater electron emissivity for all temperatures of said cathode, and to automatically vary the size of the focal area in accordance with variations in current impressed upon said tube.

1,923,877
METHOD OF PRODUCING SALTS IN GLOBULAR FORM
Lloyd F. Nickell, East St. Louis, Ill., assignor, by mesne assignments, to Monsanto Chemical Company, a Corporation of Delaware
No Drawing. Application August 8, 1929
Serial No. 384,501
1 Claim. (Cl. 83—91)
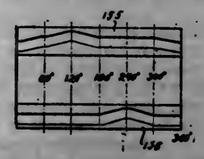
The method which comprises discharging at an angle with respect to each other a plurality of streams of a fusible salt while in a molten condition whereby the streams are caused to impinge, thereafter cooling the molten salt to solidify the same before it engages a confining surface.

1,923,878
LIFT GRADING MACHINE
Dennis Parks, St. Louis, Mo.
Application February 12, 1931
Serial No. 515,202
14 Claims. (Cl. 209—89)



1. A machine for grading leather lifts comprising, in combination, a rotatable circular carrier, a series of radially-disposed, spring-actuated combined lift holders and ejectors mounted thereon at regular intervals around its periphery, a circular band mounted above said carrier and having a lower edge upwardly inclined in the direction of movement of said carrier, grading mechanism, a trigger carried by each lift holder and ejector having a head normally engaging and riding over the inner side of said band in the movement of the carrier, and adapted to be set by said grading mechanism relative to the lower edge of said band according to the thinness of a lift being graded, whereby to ride off of the said band and effect a release of its holder and ejector at a given point in the travel of said carrier.

1,923,879
TRANSMISSION
George K. Parsons, Detroit, Mich.
Application February 23, 1932
Serial No. 594,681
3 Claims. (Cl. 74—14)

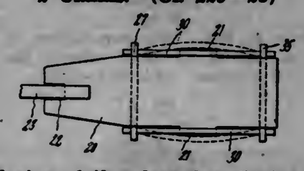


1. In a power transmission mechanism, a drive shaft, a plurality of driving gears thereon, a driven shaft, reduction gearing connecting one of the driving gears to the driven shaft, and independent means connecting another driving gear to the driven shaft to enable oscillation of the latter upon rotation of the drive shaft, comprising a crank rotatable by said second driving gear, a pinion on the driven shaft and a rack meshing therewith, a Scotch yoke connecting the crank and rack, and means for selectively rendering either of the driving means operable or inoperable at will, including a clutch member slidably mounted on the driven shaft, a pair of spaced shafts generally parallel to the driven shaft, a shifting member slidably carried by one for moving the clutch, and a cam carried by the other for moving the shifting member.

1,923,880
PRESSURE FERMENTATION OF DOUGH FOR BREAD AND SIMILAR BAKERY PRODUCTS
William F. Petersen, Chicago, Ill.
No Drawing. Application September 4, 1930
Serial No. 479,801
8 Claims. (Cl. 99—10)

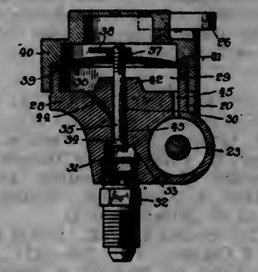
4. A process for accelerating the fermentation of yeast dough for bread and similar bakery products through the influence of pressure, said process consisting of placing the dough batch, immediately after mixing the ingredients thereof, in an air-tight sealed container, fermenting the batch in said container under the pressure developed by the fermentation of the dough itself, and augmenting such pressure by the introduction of an extraneous substantial super-atmospheric pressure.

1,923,881
SHEET MATERIAL ARTICLE AND METHOD OF MAKING THE SAME
Harry Palais, Roxbury, Mass.
Application November 11, 1930
Serial No. 494,884
2 Claims. (Cl. 229—23)



1. A device of the class described comprising a plurality of pieces of sheet material each forming a wall of a receptacle, one of said pieces having a hook extension, another of said pieces having a slot through which said hook extension may be passed and be interfitted with the end edge of said slot, and a third of said pieces carried by one of said hooked and slotted pieces and extending into the path of relative detaching movement of the other of said pieces to prevent detachment of said hooked and slotted pieces from each other, said third piece having portions interlocking with other pieces and preventing separation of said pieces without deformation of certain thereof.

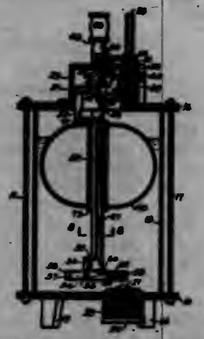
1,923,882
GENERATOR DEVICE FOR LIQUID FUEL STOVES
George E. Pickup, Newark, Ohio, assignor to The Wehrle Company, Newark, Ohio, a Corporation of Ohio
Application December 3, 1930. Serial No. 499,661
2 Claims. (Cl. 158—42.4)



1. A liquid fuel stove having, in combination, a gaseous fuel burner, a generator for gasify-

ing liquid fuel for delivery to said burner, said generator comprising a tube heated by the flame from said burner and having a discharge orifice at one end, a metallic fitting having an elongated bore into which the other end of said tube is fitted, a needle valve for said discharge orifice having an operating rod extending through said tube and said bore, said fitting having a lateral extension in a heat conducting relation to said fitting and said tube and having a chamber formed therein, a disk-shaped bimetallic thermostatic element mounted within said chamber with its edges seated in the sides of said chamber, fuel supply means connected to said extension adjacent to said bore, said extension having a second bore formed therein extending transversely past said first mentioned bore and connecting said fuel supply means with said chamber, a valve and an operating rod in the second bore with the rod extending into said chamber and operatively connected to said element, said extension having a passage opening from said chamber into said first mentioned bore, and a passage extending from said second bore into said chamber in spaced relation to the other passage and on the same side of said thermostatic element.

1,923,883
PUMP
William E. Pike, Winston-Salem, N. C.
Application August 23, 1932. Serial No. 630,014
6 Claims. (Cl. 103—248)



1. In a liquid pump adapted to be operated by compressed fluid such as compressed air and having a chamber, a valve in the lower portion of said chamber thru which the liquid is adapted to flow by gravity, a vertically movable float in said chamber, an air pipe having communication with the upper end of said chamber for admitting compressed air to said chamber, a water pipe having communication with the upper end of said chamber thru which water is adapted to be expelled from said chamber, a double-acting valve for alternately opening and closing the lower end of said air pipe, and off-center snap action means operable by the float for actuating said double-acting valve.

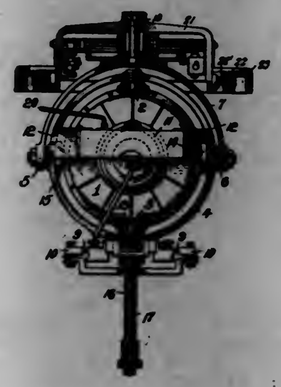
1,923,884
METHOD OF MAKING SHAVING BRUSHES
George Durant Pushee, deceased, late of Weston, Mass., by George Horton Pushee, Wayland, and Arthur W. Church and Horace C. Cushman, Newton, Mass., executors, assignors to J. C. Pushee & Sons, Inc., Boston, Mass., a Corporation of Massachusetts
Application November 4, 1932. Serial No. 641,250
4 Claims. (Cl. 300—21)

1. The method of making a shaving brush consisting in forming a central depression in the flag ends of a bunch of bristles by direct engagement of an instrumentality with said flag



ends to form such depression; and then, while said flag ends are so depressed, permanently connecting the bunch to a holder.

1,923,885
GYROSCOPIC COMPASS
Arthur L. Rawlings, London, England, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York
Application June 28, 1930, Serial No. 464,595, and in Great Britain January 16, 1930
5 Claims. (Cl. 33—226)

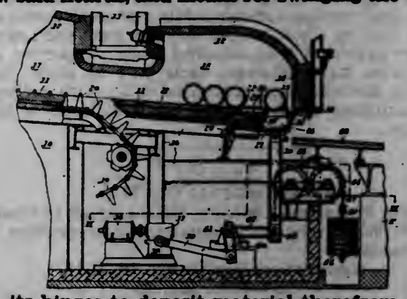


1. In a gyroscopic compass of the liquid-controlled type, a gyro rotor casing, a vertical ring in which the casing is journalled for rotation about a vertical axis, a phantom ring in which said vertical ring and its contained parts are mounted for oscillation about a substantially horizontal axis in substantially neutral equilibrium, a liquid control system mounted to oscillate with said vertical ring and casing, a spider in which said phantom ring is journalled for rotation about a vertical axis, and a gimbal support for said spider.

1,923,886
DISCHARGE DOOR FOR FURNACES
Edgar H. Ray, Beaver, Pa., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania
Application May 1, 1931. Serial No. 534,171
14 Claims. (Cl. 263—6)

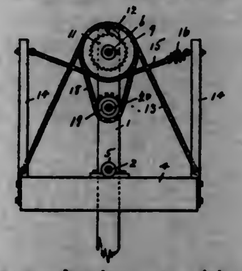
1. The combination with a furnace having a hearth supported on a frame, an opening in said hearth and a door hinged to the frame for normally closing said opening and adapted to receive

material from the hearth, of receiving means below said hearth, and means for swinging the door



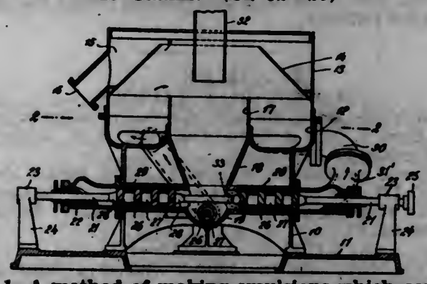
on its hinges to deposit material therefrom onto said receiving means.

1,923,887
POWER MECHANISM
Vincent Renda, Baltimore, Md.
Application March 8, 1933. Serial No. 660,007
2 Claims. (Cl. 253—4)



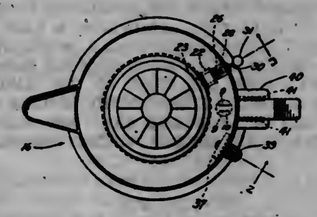
1. A power mechanism comprising a frame, a float mounted in said frame and adapted to rock therein, a shaft mounted in the upper ends of said frame, two sprocket wheels loosely mounted on said shaft, and each having a pawl pivoted thereto, two ratchet wheels rigidly mounted on said shaft, one adjacent each sprocket wheel and against which the said pawls operate, a sprocket chain at one end of said float and having its ends secured to opposite sides thereof and extending over one of the said sprocket wheels, and a sprocket chain on the other end of said float and having its ends secured to opposite sides of the float and extending under the other sprocket wheel.

1,923,888
METHOD OF PRODUCING EMULSIONS
Thomas Robinson, New York, N. Y., assignor to Lancaster Processes, Inc., New York, N. Y., a Corporation of New York
Application October 30, 1931. Serial No. 572,132
18 Claims. (Cl. 92—20)



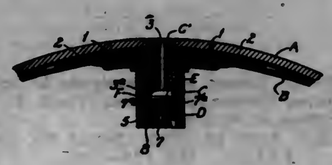
1. A method of making emulsions which comprises creating a circulating stream of water, emulsifying material and material previously emulsified, continuously introducing material to be emulsified into said stream in fluid condition, agitating the mixture, and continuously withdrawing a portion of said stream from circulation.

1,923,889
CIRCUIT BREAKER
Edwin A. Sauter, Mount Vernon, N. Y.
Application October 17, 1931. Serial No. 569,382
8 Claims. (Cl. 219—44)



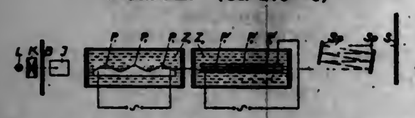
1. A device for preparing liquid beverages and the like, by the application of heat to liquid including an electrically operated device and a source of current therefor, a main circuit including said source and said device, a pair of unequal parallel circuits and an electro-magnetically operated circuit breaking device in series with said main circuit, a pair of electrodes immersed within the liquid, said electrodes being in series with the greater of said parallel circuits, whereby when the resistance in said greater circuit decreases, the current passes therethrough, thereby actuating said circuit breaker.

1,923,890
VALVE STRUCTURE FOR FOOTBALLS, BASKET BALLS, AND THE LIKE
Mason Scudder, Clayton, Mo., assignor to Rawlings Manufacturing Company, St. Louis, Mo., a Corporation of Missouri
Application November 14, 1931
Serial No. 574,985
2 Claims. (Cl. 273—65)



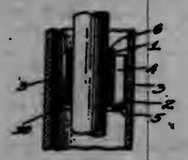
1. A valve structure for ball bladders, comprising a non-metallic body portion attached to the bladder and projecting into the interior of same, a longitudinally-disposed passageway in said body portion that is adapted to receive an inflating device, a cavity in said body portion located at the inner end of said passageway, a metallic valve seat member imbedded in said body portion and arranged to form one wall of said cavity, a valve element in said cavity adapted to be actuated by a device positioned in said passageway and provided with a screw-threaded part adjustably mounted in said valve seat member, and means for establishing communication between the interior of the bladder and the inflating device when said valve element is unseated.

1,923,891
APPARATUS FOR REFRACTING LIGHT RAYS
Franz Skaupy, Berlin, Germany
Application June 16, 1930, Serial No. 461,574, and in Germany June 19, 1929
7 Claims. (Cl. 178—6)
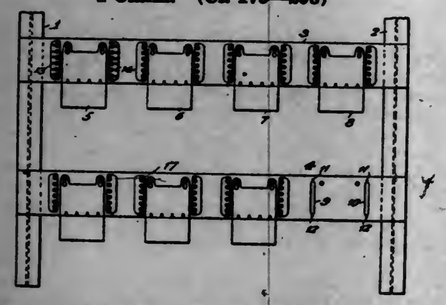


1. An optical device for producing varying deflections of light rays, comprising a pair of electrodes, said electrodes having a triangular form and arranged side by side on opposite sides of the optical axis with the edges of the triangles at an angle thereto, an electrically, doubly refracting medium between said electrodes and means for applying an electric voltage to said electrodes.

1,923,892
STEERING COLUMN BEARING
Newton Skillman, Detroit, Mich., assignor to O. & S. Bearing Company, Detroit, Mich., a Corporation of Michigan
Application July 1, 1929. Serial No. 375,004
11 Claims. (Cl. 308—238)



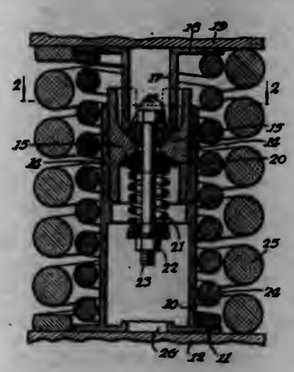
1. A bearing for a member of the type having an outer column and a relatively movable inner shaft spaced therefrom, comprising two annular integral shells, the outer shell being turned back in spaced relation to and encircling the inner shell, and a bushing formed of expansible lubricant impregnated material supported by said inner shell, the outer shell being slotted to present spaced portions for resiliently engaging the column and said inner shell being inwardly embossed at both ends whereby to assist in locking the bushing in position.

1,923,893
WIRING
Earl B. Smith, Bronx, N. Y., assignor to Railroad Accessories Corporation, New York, N. Y., a Corporation of New York
Application April 23, 1930. Serial No. 446,460
1 Claim. (Cl. 175—298)



In a relay support and wiring device, in combination: spaced metallic supporting standards, metallic cross bars at intervals thereon, each cross bar being formed with pairs of spaced slots and means for supporting a relay between each pair of slots; wiring devices over each slot; relays provided with binding posts supported by the cross bars between each pair of slots; the wiring devices being provided with wire orifices and annular walls forming continuations of the orifices.

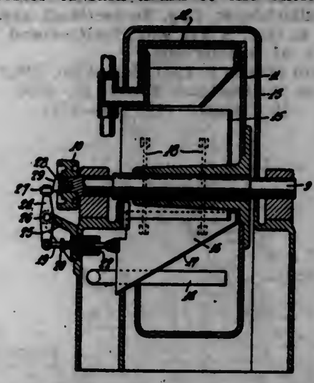
1,923,894
CUSHIONING DEVICE
Donald F. Sproul, Chicago, Ill., assignor to Cardwell Westinghouse Company, a Corporation of Delaware
Application September 19, 1931
Serial No. 563,729
3 Claims. (Cl. 267—9)



1. In a cushioning device, in combination, a cylindrical casing having a lateral flange at its closed end and being inwardly tapered from its open end, segmental friction shoes engaging the tapered walls and having outward facing wedge surfaces on their inner faces, a follower having wedge faces cooperating with the wedge surfaces of the shoes, an axial rod anchored to the follower and extending into the casing, a nut threaded upon the inner end of the rod, a spring seat bearing outwardly against the shoes, a spring reacting between the seat and the nut and a helical spring reacting between the casing flange and the follower.

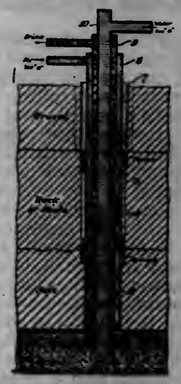
1,923,895
CENTRIFUGAL MACHINE
Gustav ter Meer, Munich, Germany, assignor to Albert T. Otte & Sons, New York, N. Y., a Corporation of New York
Original application August 15, 1931, Serial No. 557,317, and in Germany June 10, 1930. Divided and this application October 21, 1932. Serial No. 638,275
7 Claims. (Cl. 210—73)

2. A centrifugal machine including a shaft, a separating drum mounted on said shaft for rotation therewith, a chute inside of said drum and adapted to discharge separated material from the interior of said drum to the outside there-



of, and means actuated by the rotation of the shaft for vibrating said chute.

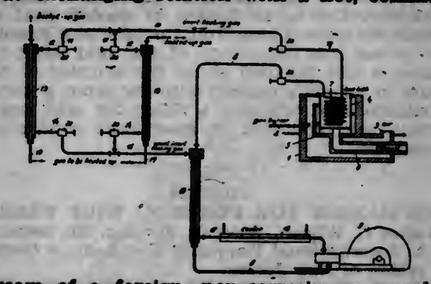
1,923,896
MINING SOLUBLE SALT
Edward N. Trump, Syracuse, N. Y.
Application November 10, 1931
Serial No. 574,149
6 Claims. (Cl. 262—3)



1. In the operation of mining a soluble, wherein a solvent is introduced into the mine, and a non-solvent is introduced into the mine to form a separating layer between the solvent and the soluble above it, and wherein the solution is discharged from the mine, the method which consists in introducing the solvent admixed with the non-solvent and utilizing the said separating layer of non-solvent for controlling the level of the solvent in the mine cavity.

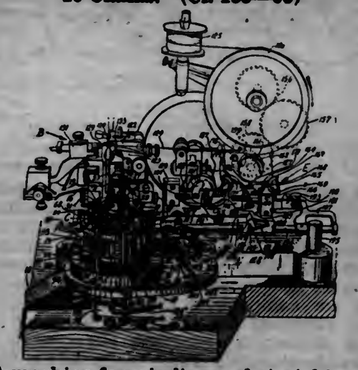
1,923,897
TREATING GASES
Georg Friedrich Uhde, Bovinghausen, Germany, assignor to the firm Patentverwertungs A. G. Alpina, S. A. pour L'Exploitation de Brevets Alpina, Patents Exploitation Cy. Alpina Ltd., Basel, Switzerland
Application March 1, 1929, Serial No. 343,726, and in Germany March 1, 1928
14 Claims. (Cl. 23—199)

6. In the treating and reacting at high temperatures of gases and vapors corrosive to metals at said temperatures, the step which comprises heating such a gas or vapor by bringing it into heat exchanging relation with a hot, confined



stream of a foreign, non-corrosive gas under pressures substantially above atomspheric.

1,923,898
COMBINED COIL WINDING AND STRETCHING MACHINE
John Wahlberg, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania
Application June 29, 1931. Serial No. 547,526
16 Claims. (Cl. 153—65)



1. A machine for winding and stretching coiled filaments comprising mechanism for helically coiling a filament wire, a plurality of coil stretching devices, means for cutting coiled filament into sections of predetermined lengths, means for feeding said sections, means for moving a stretching device into operation relative with said mechanism, means for depositing a coiled section in a stretching device, means for removing said device, means for positioning another device to receive a coiled section and means for operating said devices to stretch coiled sections therein.

1,923,899
REFRIGERATION
Edward T. Williams, New Rochelle, N. Y.
Application August 2, 1930. Serial No. 472,585
2 Claims. (Cl. 62—95)



2. A device of the class described comprising an insulated cabinet, a closed tank within said

cabinet adapted to contain a fluid, one or more receptacles within said tank adapted to contain a commodity to be heated or cooled, said receptacles being spaced from the tank in a manner to permit free circulation of the fluid about the same, a coil disposed about the exterior of the tank in intimate contact with the same, a jacket enclosing said coil, and a filling for said jacket about said coil and of good heat conducting properties.

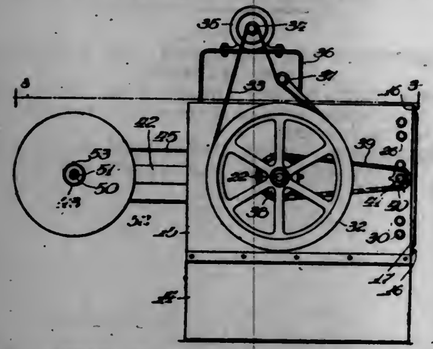
1,923,900

MECHANISM FOR FORMING WIRE FABRIC

Walter C. Wilson, Western Springs, Ill., assignor to International Harvester Company, a Corporation of New Jersey

Application July 28, 1932. Serial No. 625,472

13 Claims. (Cl. 140—105)



1. A device for forming reenforced sheet-like material which comprises means for feeding two layers of material in spaced relation with respect to each other at a uniform speed, means for feeding a series of flexible elements between the two layers at a much higher rate of speed, and means for compacting the two layers and the flexible elements together the difference in the rate of delivery speed being effective to throw the flexible elements transversely across the layers of material.

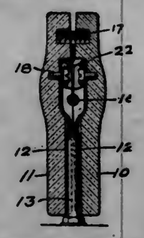
1,923,901

SEPARABLE ELECTRIC CONNECTER

Hallock L. Winkie, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Wisconsin

Application June 28, 1930. Serial No. 464,663

3 Claims. (Cl. 173—332)



1. An electric connecter having a socket member comprised of two insulating sections provided with opposed faces having terminals therein and further provided with arcuate embossments on their opposite edges, circular caps enclosing the said embossments to constitute a hinge, and a spring serving to press the terminals into engagement with the prongs of a plug.

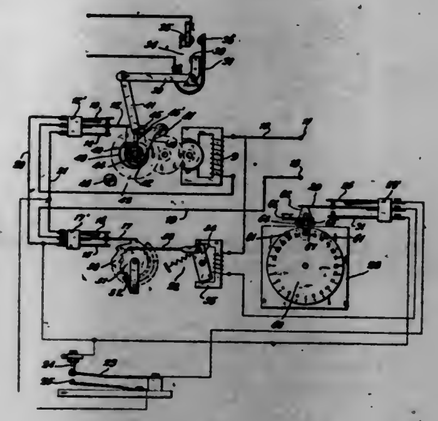
1,923,902

AUTOMATIC SWITCHING MECHANISM

Albert Wullschleger, Zug, Switzerland, assignor to Landis & Gyr, A. G., Zug, Switzerland, a Corporation of Switzerland

Application March 5, 1931, Serial No. 520,317, and in Switzerland March 13, 1930

10 Claims. (Cl. 175—375)



1. Automatic switching mechanism including in combination a main switch and motive means for opening and closing the switch, a temperature responsive switch controlling the supply of energy to the motive means, and means set in operation by the temperature responsive switch for interrupting the flow of current through said temperature responsive switch while continuing the supply of energy to the motive means until the main switch has been fully operated.

8. Automatic switching mechanism including in combination a main switch, electric motor means for actuating the switch, two double throw switches in the motor circuit, one having its movable member moved from one position to the other by operation of the motor to complete a main switching operation, a second motor for moving the movable member of the second switch between its two positions and a time switch and a temperature controlled switch in series with said second motor.

1,923,903

LATCHING MECHANISM

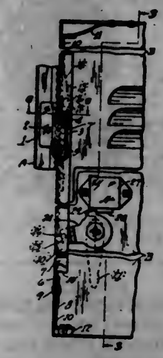
Frank Albach and George R. Chervenka, St. Louis, Mo., assignors to Fred Medart Manufacturing Company, St. Louis, Mo., a Corporation of Missouri

Application May 14, 1931. Serial No. 537,368

8 Claims. (Cl. 292—48)

4. Latching mechanism for use with a casing having an opening, a door hinged to the casing for closure of the opening, and a co-operable keeper fixed on the casing and forwardly presented endwise into said opening, the latch mechanism comprising, with a rail presented laterally from and extending along a margin of the door and having an inturned slotted flange disposed in spaced parallel relation to the door, a latch-member yieldingly rockable intermediate the door and flange, and a tongue presented laterally from the latch-member toward the rail and swingable, on rocking movement of the latch-member, crosswise of the slot, the keeper having

a recessed portion for entering endwise through the slot of the flange for rocking the tongue on



closing of the door and for receiving the tongue for latching the door when in closed position.

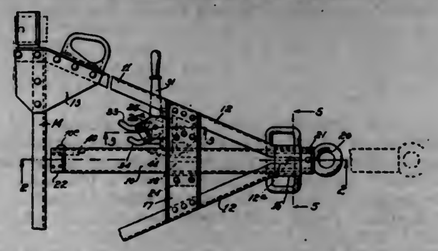
1,923,904

ADJUSTABLE DRAWBAR

Edwin H. Allen and George H. Connors, Edgerton, Wis., assignors to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin

Application December 9, 1932. Serial No. 646,397

8 Claims. (Cl. 280—33.44)



1. In combination, a draw bar frame, a draw bar carried on the frame and longitudinally adjustable relative thereto, and automatic means for locking the draw bar to the frame in a plurality of positions of longitudinal adjustment, said means including a yieldingly actuated, manually releasable locking member, a detent for temporarily holding the locking member in releasing position, and means arranged to disengage the detent in response to longitudinal movement of said draw bar, for permitting said locking member to be moved automatically to locking position.

1,923,905

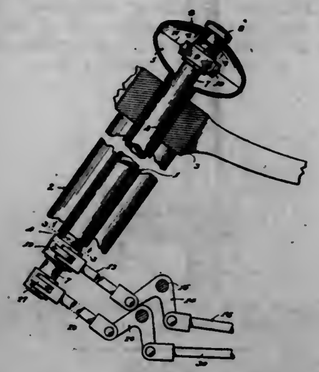
GEAR SHIFT FOR AUTOMOBILES

George E. Bennett, Middle Grove, Ill.

Application October 6, 1932. Serial No. 636,474

2 Claims. (Cl. 74—39)

1. In combination with the tubular steering post and the shifting gears of an automobile, a pair of members within and extending axially of said post, each member having operative connection with one of the said gears, a separate shell portion affixed to each of the members, the two portions being inverted one upon the other and substantially abutting at their edges, adapted for rotation relative to each other and together forming an enclosure, each shell portion having a notch in its edge arranged to register one with the other, the edge of one shell portion closing the notch of the other portion in certain positions of the portions relatively, and a lever mounted at one end within and having free movement with respect to the shell portions and extending



outside the same adapted to rotate one or the other of them by engagement in the notch thereof, the edge of one shell portion forming a retaining guide for said lever when the latter is in the notch of the other shell portion.

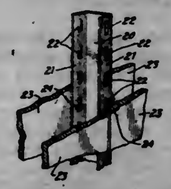
1,923,906

BUILDING CONSTRUCTION

Louis A. Berger, Chicago, Ill., assignor to Simplex Steel Products Company, Chicago, Ill., a Corporation of Illinois

Application September 8, 1930. Serial No. 480,302

4 Claims. (Cl. 72—46)



1. In combination, sheet metal studs having vertical series of relatively high narrow openings, flat construction units applied to the studs with their adjacent vertical edges spaced to permit access to the openings, and keys having heads adapted to be inserted into the openings and secured to the studs by rotation, and opposed lengths adapted to bear upon the surfaces of adjacent construction units to secured same to the studs.

1,923,907

DEVICE FOR PREVENTING THE THEFT OR UNAUTHORIZED USE OF AUTOMOBILES

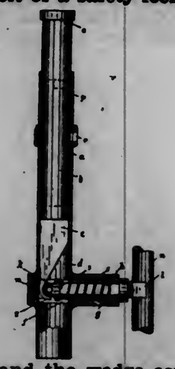
Willy Blaschk, Berlin, Germany

Application October 30, 1931. Serial No. 572,197

3 Claims. (Cl. 70—99)

1. A device for preventing the theft or unauthorized use of automobiles which comprises a bolt slidable in a tubular body, a wedge pressing the said bolt against the steering lever or shaft of an automobile when being displaced, a tube connected to said wedge and carrying the bolt of a safety lock, a tubular body in which the said tube is slidably mounted and a notch arranged

in the said tubular body and intended for receiving the said bolt of a safety lock so as to secure



the said tube and the wedge connected thereto in their locking position.

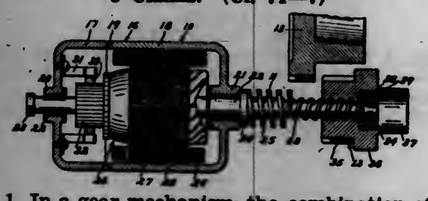
1,923,908

ENGINE STARTER

Carl P. Brockway, Ridgewood, N. J., assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware

Original application October 10, 1921, Serial No. 506,662. Divided and this application April 24, 1930. Serial No. 447,111

5 Claims. (Cl. 74—7)



1. In a gear mechanism, the combination of a gear; a shaft yieldably mounted adjacent the gear; a pinion slidably mounted on the shaft and movable into and out of engagement with the gear; a radially movable member secured to the end of the shaft; a spring for holding said member at the outer limit of its movement, said pinion having a cylindrical recess at its outer end and said resilient member adapted to yieldably engage the surface of said recess when the pinion is at the outer limit of its movement and disengaged from the gear.

1,923,909

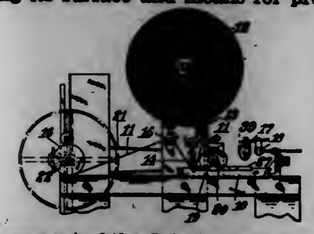
APPARATUS FOR SURFACING SHEET MATERIAL WITH PIGMENTS, VARNISHES, LACQUERS, OR THE LIKE

George MacKenzie Brown, London, England

Original application February 13, 1930, Serial No. 428,138. Divided and this application January 8, 1932. Serial No. 585,431

5 Claims. (Cl. 91—9)

1. Apparatus for surfacing sheet material with pigments, varnishes, lacquers, waterproofing solutions or the like, comprising in combination a container for a liquid flotation medium, means for maintaining a substantially continuous supply of film-forming liquid to the surface of the flotation medium, a guide located near the surface of the flotation medium at a station spaced apart from the region at which the film-forming liquid is supplied, means for traversing a continuous web of sheet material under the guide aforesaid in contact with the floating film in such manner as to remove the film by movement of in relation to the flotation medium in a direction along its surface and means for preventing



bodily movement of the flotation medium towards the guide aforesaid.

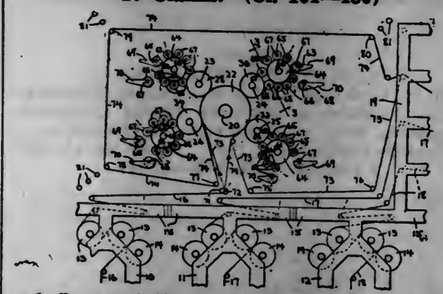
1,923,910

PRINTING PRESS

Martin W. Brueshaber, River Forest, Ill., assignor to The Goss Printing Press Co., Chicago, Ill., a Corporation of Illinois

Application July 29, 1932. Serial No. 625,723

17 Claims. (Cl. 101—180)



1. In a printing press, the combination of a plurality of press units each comprising two printing couples for printing both faces of a web, an auxiliary impression cylinder and a plurality of co-operating form cylinders in spaced relation to each other about said impression cylinder at one side of the press for making an outside face color printing on a portion of any selected one of the webs from said press units, a second auxiliary impression cylinder and a plurality of co-operating form cylinders in spaced relation to each other about said impression cylinder at the opposite side of the press in axial alignment respectively with the first named auxiliary cylinders and in position to make an inside face color printing on a complementary web portion from said press units, and means for driving said auxiliary cylinders serving to rotate the cylinders at one side of the press in the reverse direction from that of those at the opposite side of the press.

1,923,911

PROCESS OF TREATING RUBBER AND THE IMPROVED AGE RESISTING RUBBER PRODUCED THEREBY

Hugh Mills Bunbury, Prestwich, and John Stanley Herbert Davies, Crumpsall, and William Johnson Smith Naunton, Prestwich, England, assignors to Imperial Chemical Industries Limited, a Corporation of Great Britain

No Drawing. Application October 31, 1931, Serial No. 572,436, and in Great Britain November 22, 1930

6 Claims. (Cl. 18—50)

1. The process of increasing the resistance of vulcanized rubber and the like to deterioration and discoloration due to ageing which comprises incorporating with the rubber or rubber-like substances a boric acid ester of a naphthol.

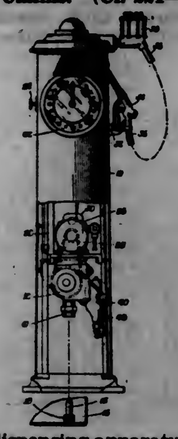
1,923,912

EXPANSION CHAMBER

David M. Casterline, Fort Wayne, Ind., assignor to Wayne Company, Fort Wayne, Ind., a Corporation of Indiana

Application June 4, 1932. Serial No. 615,231

13 Claims. (Cl. 221—95)



1. In liquid dispensing apparatus, the combination of a source of liquid supply, a pump, the suction side of said pump being connected to said source of liquid supply, discharge means, the discharge side of said pump being connected to said discharge means, a container including an expansion chamber connected to the suction side of said pump, and valve means for controlling ingress and egress to and from said container.

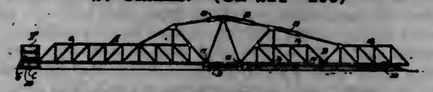
1,923,913

APPARATUS FOR CONSTRUCTING LEVEES AND THE LIKE

John Taylor Chambers, New Orleans, La.

Application January 26, 1932. Serial No. 588,905

27 Claims. (Cl. 214—100)



1. In apparatus for transporting material from a remote location to a location where it is to be dumped for constructing a levee or the like, the combination of a central movable supporting structure, a cantilever structure extending from the central structure to said remote location, a second cantilever structure extending from the central structure to the location where the levee is to be constructed, means located adjacent the ground level for pivotally mounting said cantilever structures on the central structure whereby the apparatus is adapted to handle the material close to the general ground level, said central structure being inadequate to provide proper stability of the apparatus save when it is not handling material, and other support means adapted to supplement the central structure in providing stability of the apparatus when it is handling material.

27. A low-lying cantilever bridge having a central supporting base, a pair of cantilever structures pivoted adjacent each side of said central base, a supplemental base adjacent the end of one of the cantilever structures, and block and tackle like means adjustably connecting the cantilever structures to the central supporting base.

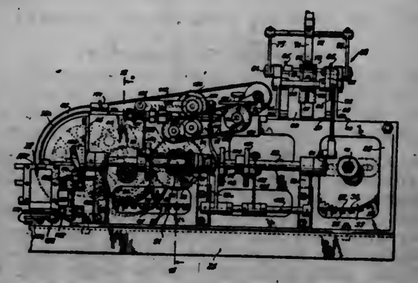
1,923,914

MACHINE FOR AFFIXING OPENING THREADS TO ENVELOPES

Lester A. Cherry, Kenmore, Clarence N. Fuller, Tonawanda, and Augustus H. Lane, Buffalo, N. Y., assignors to H. W. Hilliard Co. Inc., Buffalo, N. Y., a Corporation of New York

Application July 27, 1931. Serial No. 553,348

42 Claims. (Cl. 93—76)



1. In a machine for affixing opening threads to envelopes, the combination of means to which the envelopes are delivered and by which they are moved through the machine, means for opening the flap of an envelope, means for positioning a thread to which an adhesive has been applied adjacent the juncture of the flap and the body of the envelope and means for folding the flap upon the said thread.

1,923,915

SHAFT SEAL

Harry E. Cullen and Henry O. Ronning, Minneapolis, Minn., assignors to Henry P. Watson, Minneapolis, Minn.

Application March 7, 1932. Serial No. 597,364

6 Claims. (Cl. 286—7)



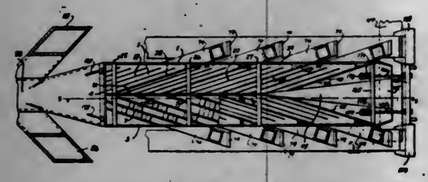
6. A shaft seal comprising a shaft having a face inclined to a plane perpendicular to its rotative axis, a ring loosely surrounding the shaft, a stationary member traversed by the shaft, the faces of the ring being respectively sealingly engaged with corresponding faces of the shaft and stationary member, and said faces being so formed as to permit rocking of the ring in an axial direction, means for applying force to move the shaft in an axial direction to maintain sealing engagement between all of said faces during rotation of the shaft.

1,923,916
FIELD STRENGTH MEASUREMENT FOR ULTRA-SHORT WAVES
René H. Darberd, Paris, France, assignor to International Communications Laboratories, Inc., New York, N. Y., a Corporation of New York
Application July 10, 1931. Serial No. 549,929
4 Claims. (Cl. 250—2)



4. Apparatus for measuring the electric field strength of micro-rays comprising, a parabolic reflector, a receiving antenna positioned at the focus of the reflector, a thermocouple, a meter associated with said thermocouple, and a transmission line composed of two concentric conductors, each adjustable as to length and extending through the reflector and between said receiving antenna and said thermocouple.

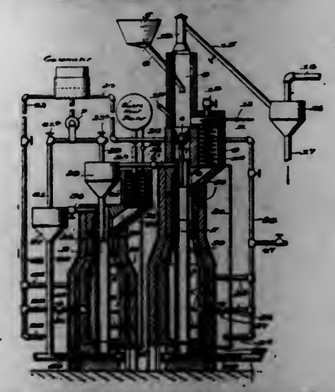
1,923,917
PROCESS AND MECHANISM FOR SEPARATING INTERMIXED DIVIDED MATERIALS
Kenneth Davis, Ebensburg, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del., a Corporation of Delaware
Application June 20, 1927. Serial No. 200,080
18 Claims. (Cl. 209—467)



1. The process of separating intermixed divided materials varying relatively greatly in size but varying relatively little in their specific gravities which comprises maintaining a transversely and upwardly hollowed bed of the intermixed materials upon and progressing it along an air pervious table, separating and stratifying the intermixed materials of the bed by forcing air through the bed of materials and impelling a settled heavier material out of the bed upwardly and laterally without any collected flow of said settled material longitudinally of the bed and causing the superior stratum of lighter material to move unconstrainedly forwardly and more rapidly in the central part of the bed to discharge at the front end of the table.

4. A mechanism for separating intermixed divided materials varying relatively greatly in size and varying relatively little in specific gravities including in combination an air-pervious table, means for forcing air therethrough, and means for impelling a settled heavier material transversely to the edge of the table, pressure-controlled devices for immediately discharging the separated heavier material from the edge of the table, including means for directing a counter air current to the discharge devices to prevent remixing of the materials and means for independently regulating the air currents to the discharge devices.

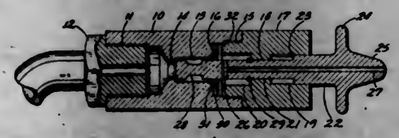
1,923,918
PROCESS OF AND APPARATUS FOR MAKING ACTIVATED CARBON
Raymond G. Davis and Marshall T. Sanders, Wilmington, Del., assignors to Darco Corporation, Wilmington, Del., a Corporation of Delaware
Application April 5, 1930. Serial No. 441,930
15 Claims. (Cl. 252—3)



1. In activating finely ground carbonaceous materials by dropping the same in a retarded counter current fall through a heated ascending current of activating gas, a process which comprises so adjusting the feed of material and the upward velocity of gas flow that the coarser particles of the ground material shall fall through and be activated by the gas while finer and less activated particles are blown forward and away with the gases formed in activation of the coarser particles and subsequently subjecting the finer particles to further activation.

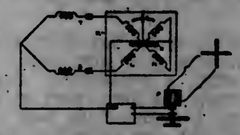
11. Apparatus for activating carbonaceous materials comprising a vertical tubular chamber, regulated means for feeding ground material into the top thereof, regulated means for introducing activating gas into the bottom thereof, means for removing activated product from the bottom, gas outlet means near the top, a combustion chamber surrounding said tube and means for conveying gases from said gas outlet means to said combustion chamber, said feeding means including means for separating finely powdered solid material from the gases passing from said chamber.

1,923,919
THROTTLE VALVE
John De Mooy, Cleveland, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a Corporation of Ohio
Application November 27, 1931
Serial No. 577,465
15 Claims. (Cl. 251—78)



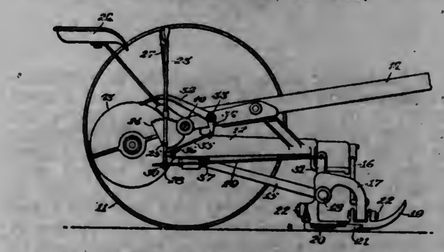
1. In a throttle valve, a casing and a stem reciprocable therein means for admitting pressure fluid within said casing, a washer gasket within said casing having an inwardly projecting lip subjected to the action of pressure fluid for forcibly engaging said stem in fluid tight relation therewith, orifices within said stem capable of communication with said pressure fluid when the stem is in one position to allow the flow thereof from said casing to atmosphere, and means at the forward end of said stem and engageable with said casing for preventing said fluid to act upon said lip during the passage of said orifices under said lip and disengageable from the casing to permit the pressure fluid to act upon the lip after the orifices have been moved out of communication with said fluid.

1,923,920
COURSE SHIFT-INDICATOR FOR THE DOUBLE-MODULATION TYPE RADIO-BEACONS
Harry Diamond and Francis W. Dunmore, Washington, D. C., assignors to the Government of the United States
Application July 6, 1931. Serial No. 548,966
3 Claims. (Cl. 250—11)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a course shift indicator the combination with a receiving antenna, of a radio-frequency amplifier connected to said antenna, a detector connected to the output of said radio-frequency amplifier, an audio-frequency amplifier connected to the output terminals of said detector, said audio-frequency amplifier having two output terminals, a rotor coil carrying a pointer and connected to one output terminal of said audio-frequency amplifier, a stator coil, a second stator coil, said two stator coils being arranged at right angles with respect to each other and symmetrically-coupled to said rotor coil, one end of said stator coils being connected to the unconnected end of said rotor coil; two tuned circuits each with two output terminals each of said tuned circuits being tuned to a different audio frequency, one terminal of said tuned circuits being connected to the unconnected output terminal of said audio-frequency amplifier, and the other terminals of said tuned circuits being connected one to the unconnected end of said first stator coils and the other to the unconnected end of second said stator coil.

1,923,921
MOWER
Sylvan C. Dessel, Livingston, Calif., assignor to International Harvester Company, a Corporation of New Jersey
Application March 28, 1932. Serial No. 601,533
14 Claims. (Cl. 56—276)

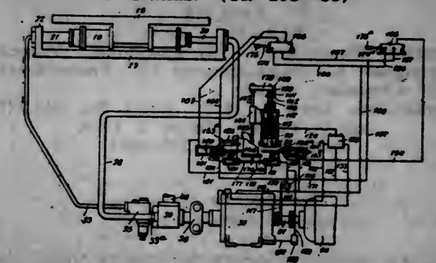


1. In combination, a mower having a main frame, a cutter bar tiltably connected to the main frame, a hand lever on the main frame connected to tilt said bar, and a foot lever connected to tilt the bar, said levers being selectively operable.

1,923,922
PROCESS OF GLUING
Theodore Williams Dike, New Westminster, British Columbia, Canada, assignor, by mesne assignments, to Laminating Patents Corporation, Seattle, Wash., a Corporation of Delaware
No Drawing. Application February 20, 1932
Serial No. 594,396
17 Claims. (Cl. 144—309)

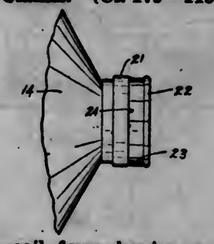
1. The process of gluing, which comprises applying an adhesive base in discrete-particle form to a surface to be incorporated, supplying also a liquid having a high boiling point, assembling and subjecting to heat and pressure.

1,923,923
HYDRAULIC STROKE REGULATOR FOR PUMPS
Arthur L. Ellis, New Rochelle, N. Y., assignor to The Waterbury Tool Company, Waterbury, Conn., a Corporation of Connecticut
Application July 17, 1931. Serial No. 551,386
3 Claims. (Cl. 103—38)



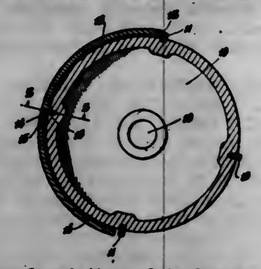
1. Controlling mechanism for a variable flow, reversible pump comprising a servo-motor for adjusting said pump to vary the operation thereof, setting mechanism for controlling the operation of said servo-motor, a reciprocating cam slide for variably actuating said setting mechanism, a pressure actuated piston whereby said cam slide is operated, an adjustable stop for engaging said cam slide to arrest its movements in one direction, and a pressure actuated adjustable stop for engaging said cam slide to arrest its movements in the opposite direction.

1,923,924
VOICE COIL FORM
Bernard A. Engholm, Lakewood, Ohio, assignor to The Kola Company, Cleveland, Ohio, a Corporation of Ohio
Application July 30, 1932. Serial No. 626,706
5 Claims. (Cl. 179—115.5)



3. A voice coil form having a coil receiving surface thereon, and having the wall thereof adjacent the surface slit at spaced intervals around the form.

1,923,925
PRINTING PRESS
Harland Fankboner, Chicago, Ill., assignor to The Goss Printing Press Company, a Corporation of Illinois
Application January 14, 1931. Serial No. 508,651
6 Claims. (Cl. 101—378)



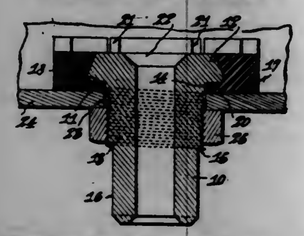
1. A curved printing plate having a concave rear face provided with circumferentially extending ribs, certain of said ribs being interrupted intermediate their ends to provide a sharp shoulder.

1,923,926
ELASTIC CORD
Charles Faure-Roux, St.-Chamond, France, assignor to Etablissements Ch. Faure-Roux, St.-Chamond, France
Application April 5, 1930. Serial No. 441,737, and in France March 5, 1930.
3 Claims. (Cl. 267—63)



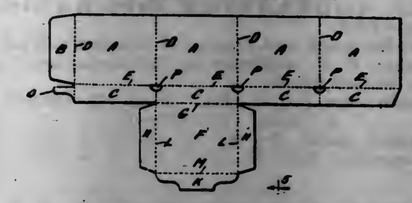
1. An extensible device for use as shock absorber in aeroplane landing gears and for other purposes comprising an endless core made of elastic thread and forming a hank, attaching members at the ends of said hank and a longitudinally contractible and expansible sheath enclosing loosely both strands of said hank together over the entire portion thereof between said attaching means, so as to allow said strands to expand and contract freely on their whole length.

1,923,927
CALKING AND CENTERING MEANS
Richard J. Gollong, Johnson City, Tenn., assignor to American Glanzstoff Corporation, New York, N. Y., a Corporation of Delaware
Application December 16, 1931
Serial No. 581,498
2 Claims. (Cl. 8—18)



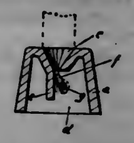
1. In a treating tank having an opening formed in the bottom thereof, a device for securing and centering spools over said opening comprising, in combination, a tube-like member having a flanged upper end and a threaded portion, a gasket fitting around said flanged end and having spaced drainage slots formed therein, said tube fitting in such opening, and a lock-nut engaging said threaded portion to secure said device in place.

1,923,928
COLLAPSIBLE PAPER BOX
Daniel C. Jacobs, New York, N. Y.
Application November 25, 1931
Serial No. 577,270
5 Claims. (Cl. 229—16)



1. A collapsible paper box of the character described, comprising four side walls integral in a continuous strip, a continuous upturned strip extending around the lower part of the walls for supporting the bottom of the box, said bottom being integral with and extending from the edge of said strip along one wall, a flap extending from one wall at a corner of the box and overlapped by the adjacent wall, a tongue piece separated from said flap and formed as an extension of the upturned strip and lying between said flap and the end of the upturned strip of the adjacent wall, said tongue piece being cut away at its upper edge to provide a clear space between the upper part of said bottom supporting strip and said flap, said bottom having down-turned flanges entering between the walls and the associated sections of the upturned strip, one of said bottom flanges being cut away to enter the space above the cut-away portion of said tongue piece, and staples securing said flap and the adjacent wall together, one of said staples passing through said tongue piece and the end of the overlaying upturned strip, substantially as and for the purpose described.

1,923,929
HOLDER FOR TUBES
Otto Jansen, Dulken, Germany
Application November 14, 1931, Serial No. 575,055, and in Germany December 23, 1930
4 Claims. (Cl. 221—60)



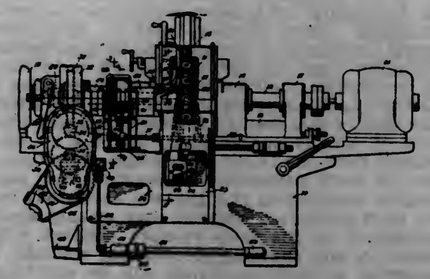
4. A holder for tubes, comprising in combination a supporting element having a funnel shaped aperture at its upper end adapted to receive the lower end of the tube, a rigid wall extending downwardly from one side of said funnel shaped aperture, said supporting element having diametrically opposite guides one on each side of said wall and rising towards said wall and a key having a slot adapted to engage said guides so that its slot is standing below the aperture in said element and adapted to grip the lower end of the tube to clamp this tube end against said wall.

1,923,930
TRACTOR SPRING TOOTH HARROW
Arnold E. W. Johnson, Chicago, Ill., and William C. Dwyer, Auburn, N. Y., assignors to International Harvester Company, a Corporation of New Jersey
Application July 5, 1932. Serial No. 620,818
3 Claims. (Cl. 55—104)



2. A tractor harrow comprising the combination of a transversely extended draft frame including a forwardly projecting tongue, a plurality of independent harrow units arranged side by side and connected to the draft frame each unit including rockshafts having harrow teeth secured thereto, a draft head having a tubular portion slidably mounted on the tongue and a ratchet flange on the tubular portion, means on the forward end of the draft head adapted for connection to a tractor, means connecting the rear end of the draft head with the rockshafts of the respective units for rocking said shafts through movement of the draft head, and a remote control latch lever pivoted on the draft frame in position to engage the ratchet on the draft head.

1,923,931
GRINDING MACHINE
Don F. Jones, Beloit, Wis., assignor to Gardner Machine Company, South Beloit, Ill., a Corporation of Illinois
Application November 17, 1928
Serial No. 320,091
9 Claims. (Cl. 51—118)



1. A grinding machine for polygonal sided work pieces comprising, in combination, a grinding element, a work carrier for moving a plurality of the work pieces in series and in recurrent movements relatively over said grinding element, fixed guide means adjacent said carrier for holding the work pieces against turning as they approach and return from said grinding element, means for automatically indexing the work pieces after each recurrent movement, and means for automatically removing the finished work pieces.

1,923,932
VULCANIZATION OF RUBBER AND RUBBER-LIKE SUBSTANCES
Maldwyn Jones, Crumpsall, and William Johnson Smith Naunton, Prestwich, England, assignors to Imperial Chemical Industries Limited, a Corporation of Great Britain
No Drawing. Application October 28, 1931, Serial No. 571,676, and in Great Britain November 28, 1930.
20 Claims. (Cl. 18—53)

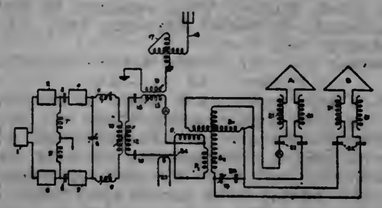
1. A process of treating rubber and rubber-like substances to prevent premature vulcanization which comprises incorporating in the rubber or rubber-like substances before or during the milling operations an acid polyhydric-alcohol-polybasic-aromatic acid condensation product.

1,923,933
DOOR STOP AND CATCH
Otto Kartzmark, West Haven, Conn.
Application October 12, 1931. Serial No. 568,219
5 Claims. (Cl. 292—70)



1. A door stop and holder including a metallic socket and a head of like material, said head having an end wall and a conoidal side wall, the side wall consisting of a plurality of closely spaced free ended tongues affording an opening therebetween opposite to said end wall, said socket being an elongated cylindrical spacer tube adapted to axially receive said head and having an end lip to detachably engage said tongues at the free ends thereof, a core within the head seated against said end wall and spaced from said tongues in close relation thereto, said core projecting through said opening, and a fastener extending through said end wall and said core and adapted to secure the latter to a support for carrying the head.

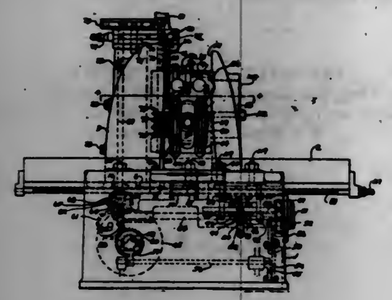
1,923,934
RADIO BEACON COURSE SHIFTING METHOD
Frank G. Kear, Minersville, Pa., assignor to the Government of the United States
Application November 24, 1931
Serial No. 577,025
2 Claims. (Cl. 250—11)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A method of shifting two radio beacon courses from their normal 180 degrees displace-

ment to align them with two airways intersecting at a radio beacon at an angle other than 180 degrees which consists in introducing circular radiation into the normal figure-of-eight radiations from the beacon.

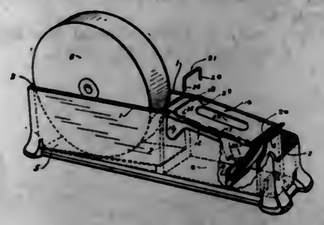
1,923,935
MILLING MACHINE STRUCTURE
Edward J. Kearney, Wauwatosa, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis.
Application March 26, 1930. Serial No. 439,147
3 Claims. (Cl. 90—16)



1. In a milling machine the combination of a bed, a head frame rigidly secured thereto, a spindle carrier adjustably supported from said head frame for bodily vertical movement with respect to said bed, clamp means for fixing said carrier with said head frame in various positions of said vertical movement, a work table horizontally reciprocably supported from said bed, a horizontal tool spindle rotatably supported from said carrier and axially transverse to the path of movement of said table, said head frame being at one side of the vertical plane passing through said spindle and normally adapted to completely support said carrier and spindle, an additional support for said spindle including a bodily removable member adapted to be fixed with said bed on the other side of said vertical plane and adapted to be fixed with said carrier in various positions of vertical movement thereof, clamp means for fixing said additional support with said carrier and operable independently of the first mentioned clamp means, and clamp means for fixing said additional support with said bed.

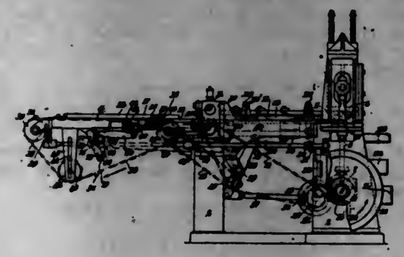
1,923,936
GUMMED TAPE MOISTENER
Arthur Keck, Dayton, Ohio, assignor, by mesne assignments, to Better Packages, Inc., a Corporation of New York
Application July 11, 1929. Serial No. 377,413
5 Claims. (Cl. 91—14.5)

1. In a tape moistening device of the character described, a base having a tape roll receiving compartment and an adjacent water compartment, and a cover member for said water compartment, said cover member comprising a metal plate having down turned sides frictionally engaging the sides of the base but not otherwise secured to said base, said cover member also comprising a sheet metal part rigid with said plate and forming a tape chute with said plate, said plate and sheet metal part being instantly completely removable from said base as a unit by



an upward pull on said plate, and means in said water compartment for applying water to the tape.

1,923,937
BLANK CUTTING MACHINE
Peter Kruse, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of Delaware
Application June 14, 1932. Serial No. 617,079
10 Claims. (Cl. 164—48)

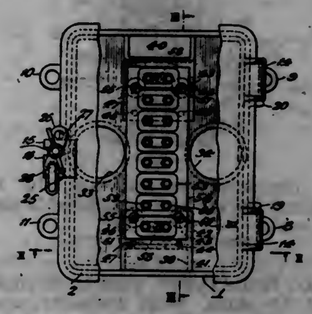


1. A machine for cutting blanks from a sheet, comprising intermittently acting transverse shearing mechanism, means for intermittently feeding the sheet in a direction toward said shearing mechanism, yielding means for imparting a relatively small opposite movement to the sheet after each of said feeding movements, and a plurality of equally spaced stops adapted to successively limit the latter movements of the sheet prior to each successive engagement of said shearing mechanism and thereby accurately locate each previously sheared edge of said sheet successively in the same relative position with respect to said shearing mechanism, whereby a succession of uniform blanks will be cut from the said sheet.

1,923,938
OCTYL ALCOHOL ESTERS
Lucas P. Kyrides, St. Louis, Mo., assignor, by mesne assignments, to Monsanto Chemical Company, a Corporation of Delaware
No Drawing. Application September 22, 1929
Serial No. 394,737
8 Claims. (Cl. 260—103)

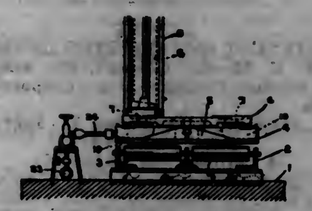
8. A neutral ester of beta ethyl hexyl alcohol and a carboxylic acid.

1,923,939
JUNCTION BOX
Frederick C. Lavarack, Montclair, N. J., assignor to Railroad Accessories Corporation, New York, N. Y., a Corporation of New York
Application August 19, 1931. Serial No. 557,966
1 Claim. (Cl. 247—1)



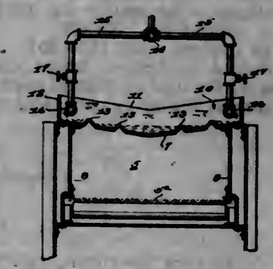
A junction box formed with a bottom wall, four side walls, and a removable cover, said bottom wall formed with an orifice and a boss formed with a threaded recess; a plate formed with two spaced orifices; a block adapted to support electrical devices and formed with a bore for the reception of a headed screw whereby the headed screw passing through the block and into the threaded recess holds the block in place and passing through one or the other of the orifices in the plate holds the plate, alternatively, either so as to cover or not cover the orifice.

1,923,940
HEATING MEANS
Edgar Valentine Ludwig, Woodside, N. Y., assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey
Application January 24, 1931. Serial No. 510,854
6 Claims. (Cl. 22—87)



1. A device of the character described, comprising a mold bottom member having an aperture therethrough to communicate with a mold cavity of a mold positioned above said aperture, a horizontally disposed deflector conduit member located beneath said bottom member, said conduit member having an inner end located beneath said aperture and having an outer open end to receive heating gases, said conduit member having top, bottom and side walls and a closure wall for the inner end thereof, said top wall having a delivery opening for delivering the heating gases from said conduit member through the aperture of the bottom member into a mold cavity, and means for supplying additional air to the mold cavity and to be heated by the heating gases discharged from the conduit member into said cavity.

1,923,941
LEER FOR ANNEALING GLASSWARE
Garland Lufkin, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a Corporation of Ohio
Application August 26, 1930. Serial No. 477,868
14 Claims. (Cl. 49—47)



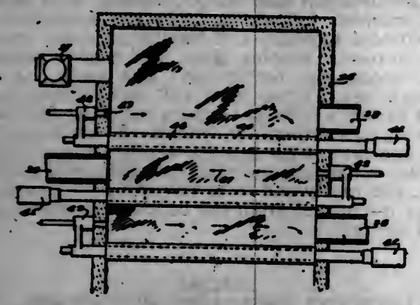
1. A leer for annealing glassware comprising a tunnel having an uninsulated metallic roof, vertical walls cooperating with the roof in forming a longitudinal series of troughs extending transversely of the tunnel, and means for supplying a liquid cooling medium to the troughs, said roof being angularly disposed to cause movement of the cooling medium lengthwise of the troughs.

1,923,942
GLASS FURNACE
Garland Lufkin, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a Corporation of Ohio
Application September 4, 1930. Serial No. 479,660
21 Claims. (Cl. 49—54)

1. The method of controlling the path of movement of molten glass which comprises cooling localized portions of a body of glass alternating with uncooled portions united to provide a continuous path for the glass, and causing the glass to move along said path.

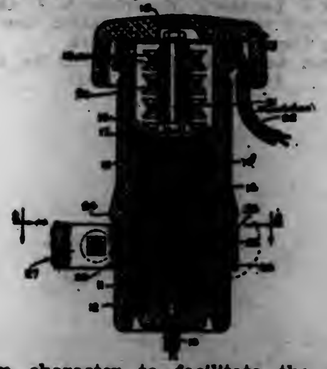
4. The combination with a furnace to contain molten glass, of means for cooling restricted sur-

face areas of the glass so located that the adjacent uncooled areas form a devions pathway through the furnace, said cooling means including closed passageways in proximity to the surface of the glass and means for circulating a cooling medium through the passageways, and means for causing the glass to flow in said pathway.



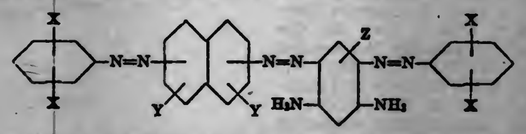
1,923,943
LIGHTNING ARRESTER
John R. McFarlin, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania
Application September 15, 1931
Serial No. 562,839
10 Claims. (Cl. 175—30)

1. An electrical protective device comprising an insulating casing having therein material constituting a current discharge path, and means for introducing in the wall of the casing a circumferentially extending initial mechanical strain of uniform character to facilitate the fracture thereof when the device is subjected to abnormal internal heat.



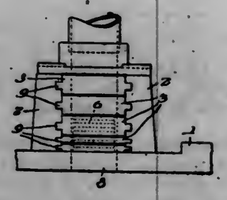
1,923,944
AZO DYESTUFFS FOR LEATHER
Mordecai Mendoza, West Didsbury, and John Hannon, Gorton, England, assignors to Imperial Chemical Industries Limited, a Corporation of Great Britain
No Drawing. Application December 24, 1931, Serial No. 583,140, and in Great Britain January 28, 1931
6 Claims. (Cl. 260—72)

5. An azo dye having the following general formula:



wherein X represents hydrogen, sulfonic acid, halogen and nitro, Y represents hydrogen, hydroxy and sulfonic acid, and Z represents hydrogen, alkoxy and halogen.

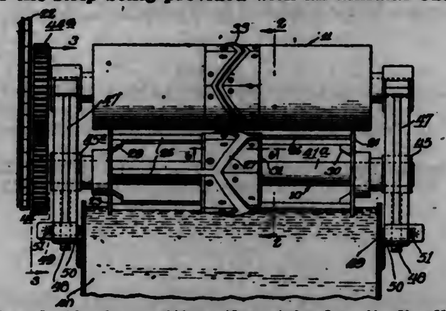
1,923,945
VENDING MACHINE
Emery Mihalek, Chicago, Ill., assignor to O. D. Jennings & Company, Chicago, Ill., a Corporation of Illinois
Application December 12, 1931
Serial No. 580,602
3 Claims. (Cl. 133—1)



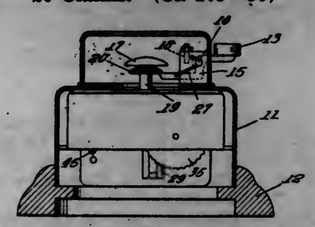
1. In the type of token-return mechanism for use in vending machines which comprises a token magazine and a pile of slides having token-receiving openings normally in registration with said magazine and wherein each slide, being of appropriate thickness to engage a definite number of tokens, which may be one or more, is operable to eject the token or tokens which it contains, the improvement which consists in slide supporting and guiding means in which said slides are slidably mounted each substantially or nearly in contact with the next and with which a plurality of said slides are so engaged as to be supported each independently of the subjacent slide or slides, said supporting and guiding means having slidably coacting interengaging parts for so independently supporting the slides of said plurality without interference with the close relation of all the slides with one another.

1,923,946
PRINTING AND SLITTING DEVICE
Albert E. F. Meone, Chicago, Ill., assignor to The Lehon Company, a Corporation of Illinois
Application December 18, 1929
Serial No. 414,872
4 Claims. (Cl. 101—226)

1. For use in a machine adapted to apply a pattern to a strip of roofing material, coated on one side with a weatherproof protective surface, and simultaneously with the application of the pattern to cut the strip longitudinally into roofing elements, the combination of a pair of rollers between which the strip is passed, the roller contacting with the coated side of the strip being provided with raised printing bars on its periphery corresponding to the pattern to be applied, and the roller contacting with the uncoated side of the strip being provided with an annular cutting knife for cutting the strip longitudinally into a plurality of roofing elements.



1,923,947
OPERATING MEANS FOR AUTOMATIC TELEPHONES
Abram L. Myers, Chicago, Ill.
Application April 1, 1932. Serial No. 602,512
20 Claims. (Cl. 179—90)



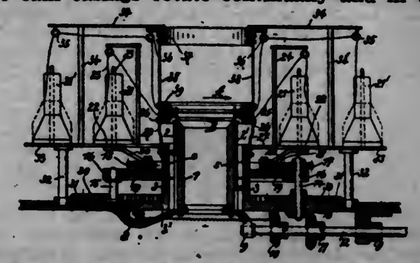
1. A means for operating automatic telephones, comprising a series of depressible keys, a pivoted lever associated with each key, stop means for successively controlling the extent of movement of adjacent keys and levers, and means for locking remaining keys against movement upon depression of any one key.

1,923,948
PROCESS OF EXTRACTING GOLD FROM ITS ORES
Paul A. Neumann, Chicago, Ill.
No Drawing. Application December 16, 1931
Serial No. 581,520
2 Claims. (Cl. 75—135)

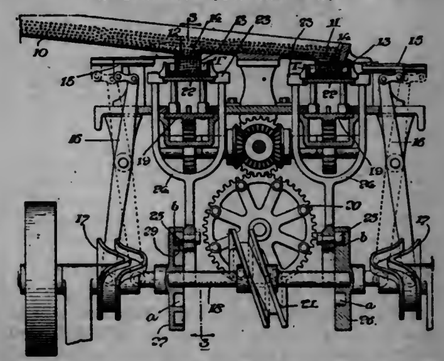
1. The process of extracting gold from its ores which consists in dissolving the gold from the pulverized ores with a solvent, then precipitating the dissolved gold by a precipitating agent without having separated the solution from the ore, and finally separating the precipitated gold from the solvent and the ore by forcing the gold into mercury under centrifugal pressure.

1,923,949
HIGH SPEED CIRCULAR KNITTING MACHINE
Georg Nobst, Mittweida, Germany, assignor of one-half to Emil Freytag, Zwickau, Saxony, and Karl Langhammer, Chemnitz, Germany
Application September 19, 1931, Serial No. 563,771, and in Germany October 14, 1930
4 Claims. (Cl. 66—13)

1. A circular knitting machine with cam casings one arranged above the other and revolving in opposite direction to each other, thus characterized, that the thread guides corresponding with the cam casings rotate continually and in the direction of the cam casing belonging to it round the stationary needle cylinder.



1,923,950
MACHINE FOR PACKING MATCHES
Michael Paridon, Barberton, Ohio, assignor to The Diamond Match Company, Baltimore, Md., a Corporation of Maryland
Application August 31, 1932. Serial No. 631,121
2 Claims. (Cl. 226—12)
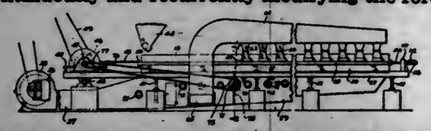


1. In a machine for packing matches, a match supply trough having spaced discharge openings and depending measuring chambers, cut-off blades for said openings, means for periodically actuating said blades, means for advancing a sucession of trays to position each tray first under one chamber to receive a charge of matches therefrom and then under the second chamber to receive a charge of matches therefrom, and means for vertically reciprocating the trays under the chambers in timed relation to the respective cut-off blades, said last-named means including an element for imparting a secondary left to the raised tray beneath the second measuring chamber before the closing of the discharge opening to the latter by the associated cut-off blade.

1,923,951
PROCESS AND MECHANISM FOR SEPARATING INTERMIXED DIVIDED MATERIALS
Richard Peale and Rembrandt Peale, Jr., St. Benedict, Pa., assignors, by mesne assignments, to Peale-Davis Company, Wilmington, Del., a Corporation of Delaware
Application December 18, 1928
Serial No. 326,878
9 Claims. (Cl. 209—469)

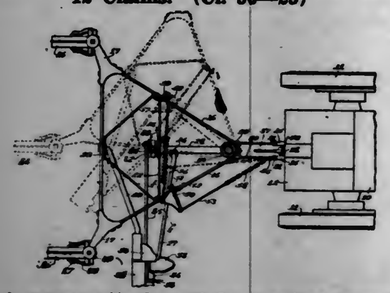
1. The process of separating intermixed divided materials varying relatively greatly in size, but varying relatively little in their specific gravities, which comprises maintaining a bed of the materials of substantial thickness in continuous progression over an air-pervious table, forcing

lifting air currents upwardly through the bed to progressively stratify the materials in substantially horizontal superposed strata, whereby a lighter material forms a flotant superior stratum and a heavier material settles to the table surface, continuously and recurrently modifying the force



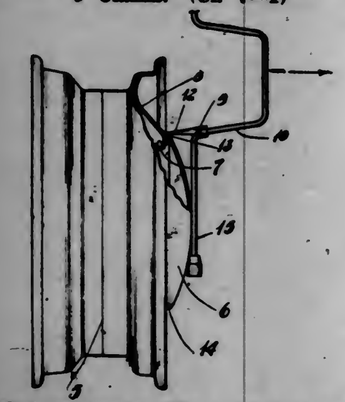
of the air currents supplied to the bed in wave-like impulses between upper and lower limits, said upper and lower limits being different in different areas of the bed, and varying the relative extents of said different areas for materials having different characteristics.

1,923,952
TRACTOR MOWER
Charles Pearson, Cicero, Ill., assignor to International Harvester Company, a Corporation of New Jersey
Application April 22, 1932. Serial No. 606,772
12 Claims. (Cl. 56—25)



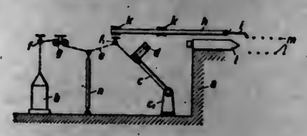
1. A mower attachment for tractors comprising a trailing mower having a frame adapted to be connected to a tractor, a cutter bar extending laterally from the mower frame; and means connected to said frame and adapted for connection to the tractor to prevent lagging of the cutter bar, said means embodying a resilient portion and another portion that is flexible.

1,923,953
HUB CAP PULLER
Leon H. Pembroke, Bay City, Mich.
Application August 31, 1932. Serial No. 631,206
6 Claims. (Cl. 7—1)



1. The combination with a crank wrench, of a hub cap pulling attachment slidably and frictionally mounted on the radial arm of the crank, the front end section of said puller being cut and turned to form a claw for engaging a hub cap.

1,923,954
FEEDING MEANS FOR WEAVING MACHINES
Rudolf Rossmann, Munich, Germany, assignor to Tefag Textil Finanz A. G., Zurich, Switzerland
Application September 16, 1930, Serial No. 482,324, and in Germany September 23, 1929
12 Claims. (Cl. 139—125)

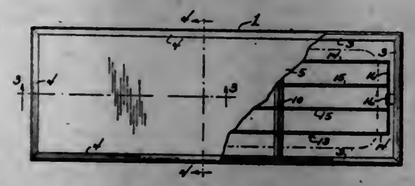


1. In a thread-feeding device for looms, a stationary weft furnishing bobbin, a rockable feeding lever spaced therefrom, gripping means on said lever, engageable with the weft, a reciprocable gripping thread carrier engageable with the gripping means in a certain position of the lever, and additional lengthwise movable gripping means, engageable and disengageable with the weft and with the said gripping means.

1,923,955
ALLOY
Walter C. Smith, Maplewood, N. J., assignor to Allied Process Corporation, New York, N. Y., a Corporation of New York
No Drawing. Application November 16, 1931
Serial No. 575,468
3 Claims. (Cl. 75—1)

1. An alloy of copper and lithium having a lithium content of from .002% to .03%.

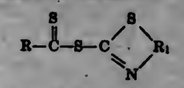
1,923,956
GRAVE VAULT
Charles J. Streib, New Castle, Pa.
Application May 24, 1932. Serial No. 613,274
2 Claims. (Cl. 27—35)



1. A grave vault comprising a box-shaped body formed from a single piece of copper whose confronting edges are welded, whose lower edges are flanged inwardly and whose top edges are shaped to provide a substantially V-shaped trough, a bottom plate welded on the lower flanges, a lid comprising a plate having a continuous angle flange to be received in the trough and to be welded therein, spaced substantially U-shaped steel brace bars welded to the inner sides and to the bottom of the vault and having their sides provided with notched upper ends, transversely arranged inverted T-irons received in the notches, steel brace bars welded in the ends and to the bottom of the bottom and a metal frame supported on the T-irons and on the end braces and said frame being disposed in close proximity to or in contact with the inner face of the lid.
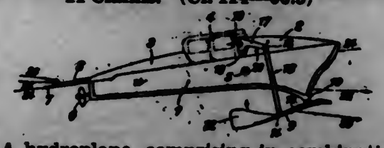
1,923,957
ACCELERATOR OF VULCANIZATION
Jan Teppema, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio
No Drawing. Original application December 10, 1927, Serial No. 239,266. Divided and this application March 9, 1929, Serial No. 345,898
17 Claims. (Cl. 18—53)

1. A method of treating rubber which comprises vulcanizing it in the presence of a material having the structural formula



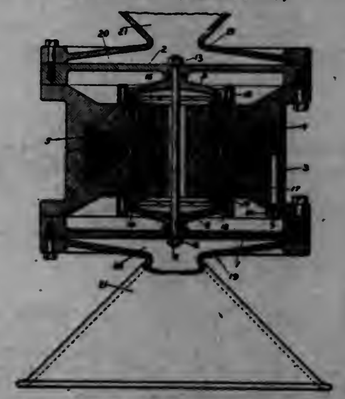
in which R represents a piperidyl radical and R_1 represents an aryl group.

1,923,958
HYDROPLANE
Erwin Wesnigk, Berlin, Germany
Application February 11, 1931, Serial No. 515,063, and in Germany April 1, 1930
11 Claims. (Cl. 114—66.5)



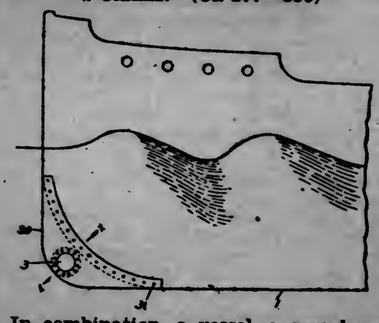
1. A hydroplane, comprising in combination a sharply keeled body, a tail fin on said body, a main gliding face pivotally fastened to the fore keel part of said body and on a lower level than said tail fin by a joint arranged before the lift centre of said face so as to allow the waves to overflow said face when gliding, and a spring inserted between said body and face so as to tend to adjust the latter to a large angle of attack, said gliding face having an essentially triangular shape with one corner on the fore end and with a longitudinal dimension equal to a value betwen the half and the full span dimension.

1,923,959
MEANS FOR PRODUCING SOUND
Robert Longfellow Williams, Newton, Mass., assignor to Submarine Signal Company, Boston, Mass., a Corporation of Maine
Application June 27, 1928. Serial No. 288,705
4 Claims. (Cl. 177—7)



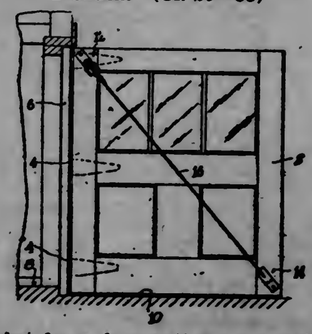
1. An electrodynamic sound producer comprising a plurality of parallel spaced diaphragms, an electrodynamic driving mechanism including a tube adapted to move by the action of the electrical force arranged between and perpendicularly to the said diaphragms, a pair of substantially rigid cup-shaped elements having their edges positioned at and fitting over the ends of the said tube, said diaphragms being positioned on the other side of said elements contacting at the center thereof, and means rigidly securing said diaphragms, elements and moving tube as one unit.

1,923,960
OSCILLATOR MOUNTING
Robert Longfellow Williams, Newton, Mass., assignor to Submarine Signal Company, Boston, Mass., a Corporation of Maine
Application July 7, 1928. Serial No. 291,070
2 Claims. (Cl. 177—386)



1. In combination, a vessel, a sound apparatus, and means for mounting the same comprising a pair of plates secured to the sides of the vessel adjacent to the stem and entirely within the straight lines of the stem and the keel and means for mounting said sound apparatus between said plates.

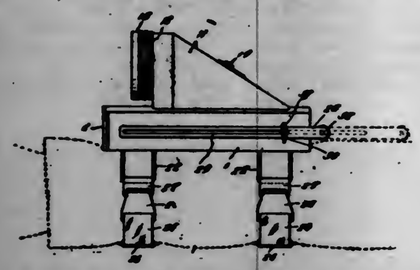
1,923,961
APPARATUS FOR REENFORCING DOORS
Albert E. Wood, Springfield, Mass.
Application April 14, 1930. Serial No. 443,943
1 Claim. (Cl. 20—38)



A bracket for a door anti-sag apparatus comprising in combination, a flange having a lower face for lying against a door provided with means for receiving fastening means whereby said flange may be fastened to said door, a leg integral with said flange extending upwardly therefrom at the forward side thereof provided with an opening for receiving a tensioning connection, and brace members integral with said leg extending forwardly in spaced relation from said leg at opposite sides thereof and away from

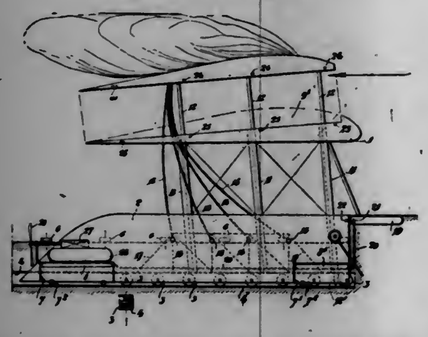
said flange, said brace members being out of contact with said flange and their lower sides being substantially flush with the lower face of said flange for bearing on a door adjacent and forwardly of said flange to brace said leg forwardly of the flange.

1,923,962
FLASH LIGHT
Ernest W. Worley, Edgerton, Kans.
Application January 18, 1932. Serial No. 587,397
1 Claim. (Cl. 240—59)



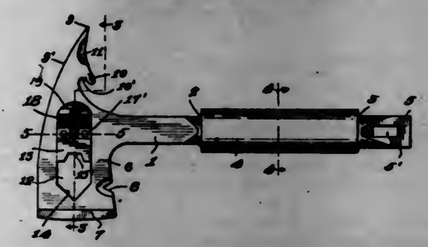
A flashlight including a battery case having an upwardly bowed bottom, a pair of angle-shaped members each having one end pivoted to said bottom an appreciable distance from an edge of the case, with that limb of the angle member which is pivoted to the bottom extending to said edge of the case when said limb contacts the bottom, a strap having one end connected to the free end of one of the angle members and means for detachably connecting the other end of the strap to the free end of the other angle member whereby the device can be attached to an arm of a person.

1,923,963
AERIAL SAFETY DEVICE
Ibrahim Ben Ayad, Paris, France
Application October 21, 1931, Serial No. 570,222, and in France October 23, 1930
4 Claims. (Cl. 244—21)



1. An airplane, comprising in combination, a fuselage, two U shaped rails located opposite each other in a fore and aft direction in said fuselage so as to form a roller track, said track being closed at its front part and open at its rear part, a detachable nacelle, a plurality of rollers on said nacelle, adapted to roll in said rails, an auxiliary supporting plane on said airplane, said auxiliary plane comprising two parts, first a grid and, secondly, a smooth continuous surface located under said grid and adapted to shield it against the relative wind, and a parachute sail folded on the upper face of said grid so as to have a substantial part of its inner surface in contact with said grid, parachute ropes connecting said parachute sail to said nacelle, a plurality of tubular vertical posts integral with said fuselage on either side of said nacelle for supporting said auxiliary plane, a rod in each of said tubes adapted to slide therein, the upper ends of said rods being secured to said grid, the length of said rods being such that, when they are in their lower position, the grid is applied upon the plane adapted to shield it, the lower end of at least one of said rods being adapted to cooperate with one of said rollers when the rod is in its lower position so as to lock the nacelle in the front part of the fuselage, and means for moving said rods upwardly in said tubes.

1,923,964
TOOL
Roy E. Benton, Elyria, Ohio,
Application December 9, 1931. Serial No. 579,932
1 Claim. (Cl. 81—165)



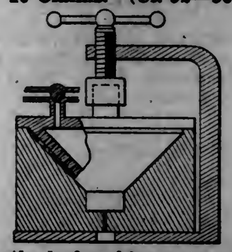
A tool of the character described comprising a head and a connected handle, the head being provided with an opening disposed to one side of the axis of the handle with its medial longitudinal dimension at a right angle to the axis of the handle, a jaw slidable in said opening and having a threaded shank, the head having a socket for said shank arranged in the axis of said opening, a nut threaded upon the shank and disposed in a transverse opening in the head, the head being reduced in thickness to provide a web portion between said jaw and said nut in which is formed a semi-circular depression as a clearance space for said shank, and a detachable plate applied to the head against said web, said plate having a clearance space for said shank complemental to the clearance space in said web.

1,923,965
ACOUSTIC DIAPHRAGM
Joseph B. Brennan, Lexington, Mass.
Application September 6, 1930. Serial No. 480,203
2 Claims. (Cl. 181—32)



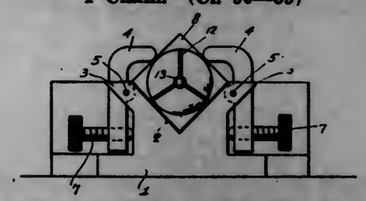
1. An acoustic diaphragm comprising a conical wall, an annular flange surrounding the base of the cone, and an axial cylindrical tube at the apex thereof, the entire diaphragm being integrally molded, homogeneous, and of unbroken continuity, and of substantially uniform thickness throughout.

1,923,966
METHOD OF CONSTRUCTING ACOUSTIC DIAPHRAGMS
Joseph B. Brennan, Lexington, Mass.
Application September 6, 1930
Serial No. 480,204
10 Claims. (Cl. 92—56)



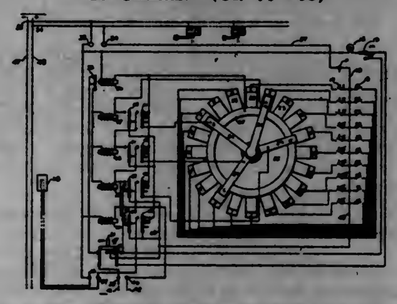
1. The method of making a one piece seamless diaphragm for acoustic instruments by causing a loose fibrous material to adhere to one surface of a mould and then compressing this material between two surfaces of the mould to make it of uniform thickness.

1,923,967
COMBINED VISE AND CHUCK HOLDING BLOCK
Eugene H. Brown, Jr., Troy, N. Y.
Application March 3, 1932. Serial No. 596,647
1 Claim. (Cl. 90—59)



In means for the purpose described and in combination, a body having therein a seat with right angularly related faces, a block of rectangular form in cross section arranged in said seat and between said faces of the body, means for detachably holding the block in said seat, and a chuck secured in the longitudinal center of said block.

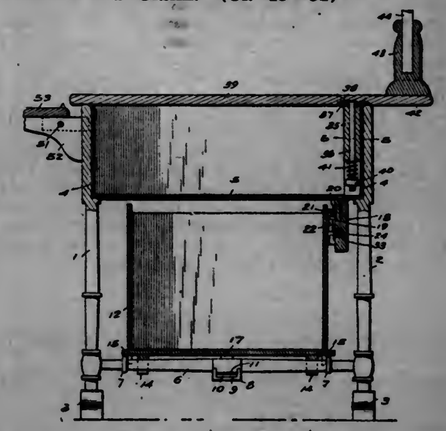
1,923,968
CONTROL DEVICE
Horace S. Chase, New York, N. Y.
Application February 25, 1930. Serial No. 431,239
10 Claims. (Cl. 70—63)



1. A combination operated device comprising a control device, means subject to manual control at one position and capable of operating said control device when manipulated so as to set up a predetermined sequence of the combination, but incapable of affecting said control device until said sequence is set up, and means manually operable from a position remote from the first named means and adapted to prevent the setting up of one element of the combination, whereby, without rendering it totally inoperative, to prevent operation of the control device by the predetermined manipulation of the first-named manually controlled means.

10. A room door control comprising a lock associated with each of a plurality of doors, lock-operating means associated with each lock and positioned outside of a room to which the door gives access, incapacitating means remote from said lock-operating means and adapted to render the lock-operating means incapable of operating the lock by correct manipulation thereof but without rendering it wholly inoperative and without directly interfering with the operation of the lock, and an emergency control means operable from a central station remote from said door adapted to operate said lock-operating means regardless of the condition of said incapacitating means.

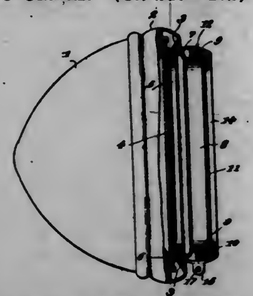
1,923,969
COMBINATION TABLE
George B. Chase, Pocatello, Idaho
Application June 27, 1930. Serial No. 464,366
1 Claim. (Cl. 45—31)



A table comprising a frame, a box-like receptacle carried by the upper part of the frame and open at the top, a top member forming a closure for the open top of the receptacle, a rack open at the top and located below the receptacle, means for pivotally mounting the rack on the frame to permit the rack to be swung vertically and outwardly until most of the open top of the rack is outwardly of the receptacle, a vertical standard, a substantially horizontal arm carried by the standard, a lamp on the arm, pivot means connecting the top member with the receptacle for horizontal swinging movement, whereby the top member can be swung to open a portion of the top of the receptacle, the standard being mounted on the top member in offset relation to the pivot means, whereby, when the top member is swung to open a portion of the top of the receptacle, the standard and the lamp will be carried inwardly with respect to the open portions of the receptacle and the rack, the standard and the arm constituting means whereby the

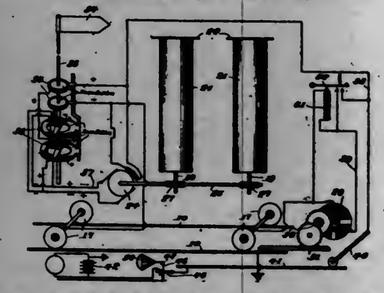
lamp may be swung horizontally in an orbit, to dispose the lamp in such position that it will illuminate the open portion of the top of the rack, and the open portion of the top of the receptacle, at the same time.

1,923,970
AUTOMOBILE HEADLIGHT PROTECTOR
Frank Dewey Dowling, Plaquemine, La.
Application January 11, 1932. Serial No. 586,007
3 Claims. (Cl. 240—102)



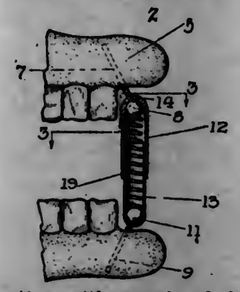
1. In combination with a headlight provided with a lens retaining band having an inturned retaining flange, a screen supporting ring having an outwardly extending annular flange at its inner end adapted to abut snugly against the front face of a lens, said inwardly turned flange of said retaining band overhanging the annular flange of said screen retaining ring, said screen retaining ring having an outwardly pressed bead formed intermediate the edges of said ring, a wire screen abutting the outer edge of said ring, a split retaining shell having an inturned edge fitting behind said bead and under said inturned flange of said lens retaining band, whereby said retaining shell will be detachably held upon said ring and may be easily removed therefrom when desired, and said retaining shell having an overhanging inwardly turned frame-engaging flange for holding said screen snugly against the outer edge of said ring.

1,923,971
WIND HARNESS FOR ELECTRIC ENERGY
Clyde M. Evans, Perkins, Okla.
Application March 9, 1932. Serial No. 597,783
7 Claims. (Cl. 290—4)



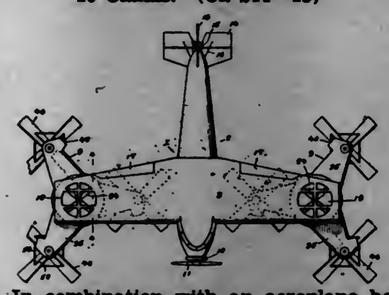
1. In a wind harness of the character described, a fixed circuitous course, a plurality of spinning rotors movable over the course, electric generating mechanism associated with the rotors, wind controlled switch mechanism operated with the generator mechanism, a motor for groups of said rotors to initially start the spinning thereof and automatically reversed and cut out at predetermined intervals by the switch mechanism, an electric current supply from the generator mechanism to a distributing station, and a normally open switch arranged in the current supply and having a wind foil controlling the same.

1,923,972
DENTAL APPLIANCE
Frank A. Goodykoontz, Tracy, Calif.
Application January 5, 1932. Serial No. 584,844
1 Claim. (Cl. 32—4)



In combination with a pair of dental plates, a rod extending from each of said plates, each of said rods having a ball formed thereon, an expansion device interposed between said rods, said expansion device comprising a pair of telescoping members having openings formed in their extremities through which said rods extend, and a coil spring having an upper and lower extremity interposed between the balls of said rods, and adapted to engage and retain therein a portion of each of the balls.

1,923,973
AIRCRAFT
Bernard H. Gudorf and Urban H. Gudorf, Dayton, Ohio
Application July 12, 1932. Serial No. 622,156
19 Claims. (Cl. 244—15)



1. In combination with an aeroplane having means for causing forward flight thereof, a helicopter carried by said aeroplane, and an autogiro carried by said helicopter for cooperating with the latter in maintaining the aeroplane in the air during non-forward movement thereof and to cause ascent and descent of the aeroplane vertically.

1,923,974
DISPENSING DEVICE
Richard W. Hand, Manhasset, N. Y.
Application April 16, 1932. Serial No. 605,688
2 Claims. (Cl. 221—79)

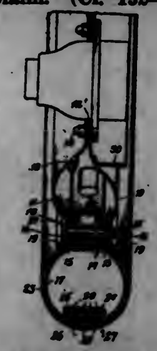
1. In a dispensing device, permanent expelling means including a feed screw, a tube cap

swivelled on one end thereof, a polygonal operating head for the screw fixed to the end thereof outwardly of the cap, a plunger threaded on the cap and having diametrically opposite peripheral notches therein, and a refill discardable tube



having quick detachable engagement with the cap and receiving the feed screw and plunger, said discardable tube having inwardly pressed longitudinally extending beads to be received in said plunger notches to prevent rotation of the plunger during operation of the screw.

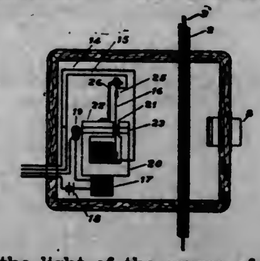
1,923,975
WHEEL FOR VEHICLES AND AIRPLANES
Thomas R. Harlan, Tompkinsville, N. Y.
Application March 8, 1932. Serial No. 597,538
1 Claim. (Cl. 152—29)



A wheel having inner and outer discs spaced apart, an inner ring disposed between the peripheries of the discs to clamp between the discs and the ring gasket flaps on an inner tube, two outer rings, one disposed at the outer side of each of the discs, each of the outer rings having an offset, which forms with the outer periphery of a disc a seat for the butt of a shoe, each of the rings having a shoe-securing flange or flanges extending from the offset for engaging the outer side of the shoe for pressing the inner tube between the shoe and the inner ring, the outer rings, the discs and the inner ring having registering apertures for receiving securing means, and securing means normally disposed in the apertures.

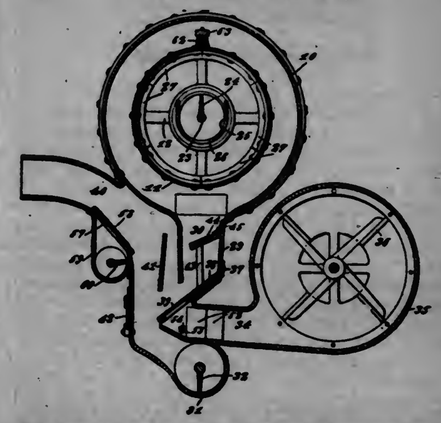
1,923,976
PORTABLE DIRECTION FINDER
Hammond V. Hayes, Boston, Mass., assignor to Submarine Signal Company, Boston, Mass., a Corporation of Maine
Application March 7, 1929. Serial No. 345,171
3 Claims. (Cl. 250—11)

1. In a system for determining the direction of radio waves, a portable unit comprising a loop antenna and an indicating device attached to said loop, said indicating device comprising a source of continuous illumination, means for setting up a magnetic field, a current conducting wire suspended in said field and normally



confining the light of the source of continuous illumination, and means for viewing the indication produced by operation of said wire exposing said source.

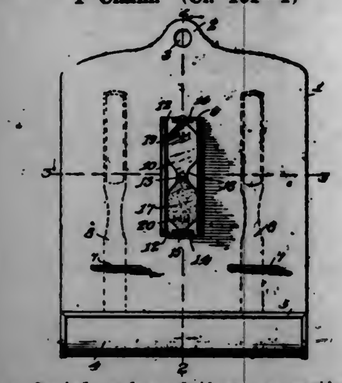
1,923,977
COMBINE RECLEANER
David Hewitt, Flint, Mich.
Application February 16, 1931. Serial No. 516,118
1 Claim. (Cl. 209—37)



In a grain separator, a cylindrical housing, an articulated drum rotatably supported within the housing and having opposite open ends, spiders journaled in the ends of the housing and rotatably supporting said drum at opposite open ends thereof, a feed chute communicating centrally with the housing and said drum, a trough extending longitudinally within the drum, communicating with said feed chute and having a longitudinal slot in its bottom, a conveyor spiral operating in said chute and trough, the drum being tapered in the direction of the feed chute, spirally arranged agitators secured within the drum, a discharge spout leading from one end of the housing, a vertically disposed reduced portion depending from the housing at its lowermost point and forming a grain passage, a vertically swinging adjustable delivery board arranged within the reduced portion of the housing, a vertically swinging deflector board in the reduced portion of the housing above the delivery board, a link connecting the deflector board and delivery board together whereby simultaneous adjustment thereof may be had, a screen fitted in the delivery board and disposed outside of the reduced portion of the housing, and a blower housing related with the reduced portion of the housing and having its air discharge in confronting relation to the

screen whereby the blown air from the blower housing will pass through the screen to be active upon grain agitated by the deflector board for separating chaff and other light foreign particles from the grain upon the latter reaching the delivery board.

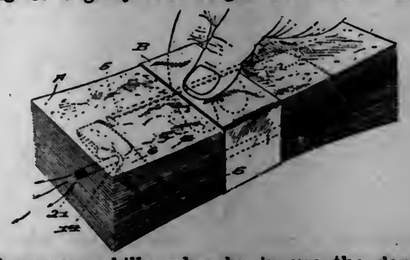
1,923,978
DENTAL RACK AND TIMER
David B. Hill, Salem, Oreg.
Application April 29, 1930. Serial No. 448,317
1 Claim. (Cl. 161—1)



In a dental rack and timer, a vertically disposed stationary support having an opening intermediate its ends, a revoluble suspension element permanently positioned against the front of said support and formed of a hollow body part of uniform cylindrical cross section at any point throughout its length, said body part open at its front from end to end, said body part being formed centrally of its back with an opening registering with the opening in said support, means extending outwardly from said support, through said registering openings and connected to said body part and support for revolubly suspending said element and for connecting the latter against the front of the support, and a pair of opposed resilient coupling arms converging towards each other, integral at their rear ends with and extending from the ends of said body part, said arms being of materially less width and length than the diameter of and having the major portion of their length arranged and spaced from the sides of said body part, said arms having oppositely disposed outset portions adjacent the forward ends thereof to provide oppositely disposed depressions, and a time glass of less length than and positioned in said body part, said glass having pointed terminals seated in said depressions whereby said arms will couple the glass to said body part.

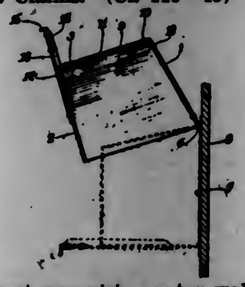
1,923,979
LIQUID PROJECTING DEVICE
Charles E. Howett, Lancaster, Pa.
Application February 6, 1932. Serial No. 591,441
4 Claims. (Cl. 299—90)

2. A liquid projecting device adapted to be interposed between several of a plurality of currency bills to, together with said currency bills with which it is used, constitute a camouflaged defensive weapon in simulation of the usual "unloaded" bundle of currency, said device comprising a long wide thin body the front wall of said body being formed with a discharge passage and said body being adapted to certain a charge, in combination with means normally preventing the projection of the charge from said body through said passage, said means being adapted to be displaced by the exertion of pressure at any point on the sides of the body between the ends thereof, said device being of such length and width as to extend nearly from side to side and from end to end of the currency bills with which it is to be used and yet being of slightly less length and width than



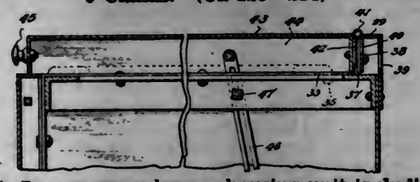
said currency bills, whereby in use the device in its associated relation with said bills will be concealed at all points by said currency bills and whereby pressure exerted at practically any point between the sides and ends of the said bills will be exerted through said bills against the sides of said body.

1,923,980
HEN NEST
Edward Hultine, Harvard, Nebr.
Application March 13, 1931. Serial No. 522,436
Renewed January 11, 1933
2 Claims. (Cl. 119—45)



1. A hen nest comprising, a top wall, a bottom wall, a front wall, and a pair of side walls, all of said walls being bodily movable as a unit, a back wall adapted to be rigidly connected with a support, and hinged means connecting the back wall with the top wall adjacent the rearward edge of the latter.

1,923,981
GAS RANGE
Robert Bailey Hurt, Cleveland, Tenn., assignor to Hardwick Stove Company, Cleveland, Tenn., a Corporation of Delaware
Application October 12, 1932. Serial No. 637,501
6 Claims. (Cl. 126—214)



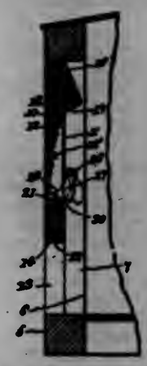
1. In a range, a burner housing unit including a body, a cover-carrying strip straddling the angle between the top of the body and the rear end thereof, and a cover carried by said strip and normally closing the body.

1,923,982
CARD AND TICKET HOLDER
Roderick Malcolm Koch, Evansville, Ind.
Application August 3, 1931. Serial No. 554,863
1 Claim. (Cl. 211—50)



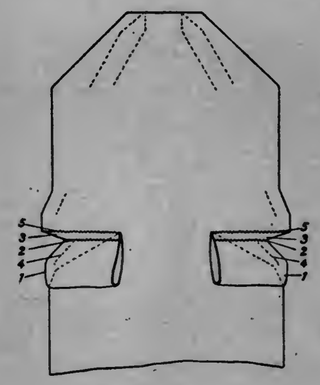
A tray formed from a single blank of metal bent to provide a bottom, sides formed on the bottom and having one of their ends curved inwardly and terminating inwardly of one end portion of the bottom, relatively narrow short flanges extending from one end of the upper edges of the sides and being inwardly directed for arrangement in parallelism with the bottom, said bottom having the said end portion centrally notched and upwardly curved to engage and follow the curvature of the curved ends of the side to provide guide means to direct the contents of the tray to the notch to facilitate the removal of the contents one at a time, the opposite end portion of the bottom being bent to provide a hook for securing the tray to a suitable supporting means and at an inclination, with the notched curved end lowermost and means bridging and secured to the flanges for bracing the sides and to receive indicia indicative of the contents of the tray.

1,923,983
BULL BOARD FOR RAILWAY STOCK CARS
Lewis Larson and Bernard Burns Tutwiler, Drummond, Mont.
Application April 29, 1932. Serial No. 608,284
1 Claim. (Cl. 20—22)



In combination with a railway stock car having a side door opening, channel frames at the sides of the opening having bottoms, pockets offset rearwardly and downwardly from the upper portions of said frames, rear diagonal flanges for said pockets, downwardly sloping ledges forming bottoms for the pockets, upstanding curbs at the forward portions of the pockets, and a bull board slidable vertically in said frames for resting upon the bottoms and adapted to be canted rearwardly into the pockets back of said curbs.

1,923,984
PROCESS OF MANUFACTURING STOCKINGS ON STRAIGHT KNITTING MACHINES IN CONTINUOUS OPERATION
Karl Klaus Lieberknecht, Oberlungwitz, Germany
Application April 7, 1930, Serial No. 442,372, and in Germany April 8, 1929
4 Claims. (Cl. 66—187)

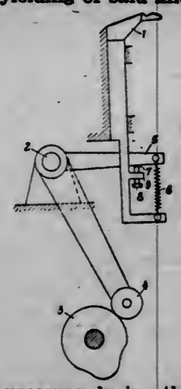


1. A method of manufacturing properly shaped stockings having French feet on a straight knitting machine in one continuous operation consisting of stopping the feed of yarn to instep needles and preventing the pressing off of loops from the instep needles during the knitting of heel tabs, then knitting a loose course at the end of the heel tabs, then knitting a plurality of courses which gradually increase from heel tab to sole width, then knitting a second loose course on the two side groups of sole needles, and then resuming knitting on the instep needles by feeding them yarn and pressing off their loops and knitting them together with the two side sole needle groups to form the foot fabric.

1,923,985
KNOCKING OVER DEVICE FOR FLAT HOSIERY FRAMES
Karl Richard Lieberknecht, Oberlungwitz, Germany
Application September 5, 1930, Serial No. 479,911, and in Germany January 18, 1930
3 Claims. (Cl. 66—109)

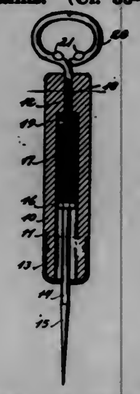
1. In a flat hosiery frame according to the cotton system the combination of a knocking over comb, a movable frame carrying said comb, an oscillatable lever adapted to control the movement of said frame, a cam adapted to

actuate said lever, and resilient means adapted to allow the yielding of said knocking over comb



under strong pressure during the knocking over.

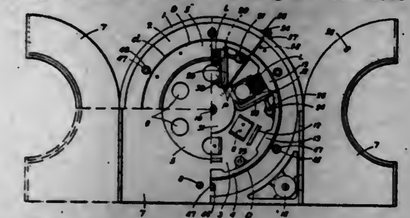
1,923,986
COMBINATION ICE PICK
Charles Lorber, Louisville, Ky.
Application May 2, 1931. Serial No. 534,659
2 Claims. (Cl. 83—62)



1. In an ice pick, the combination of a tool handle having a bore extending inwardly from one end and terminating in spaced relation to the other end, said handle having a relatively small bore extending from the first bore through the last mentioned end and forming a shoulder at its junction with the first bore, a pin shank extending through said small bore and having a head on its inner end resting on the shoulder, a tool member reciprocable in said handle, a collar on said tool member spaced from the end adjacent said head, a spring surrounding said end of the tool member and bearing at one end against the head and at its other end against the collar said head forming a striker for the tool member, and a head fixed on the outer end of said pin and holding the head on the pin against said shoulder.

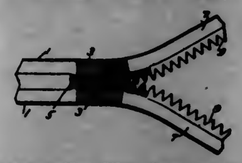
1,923,987
CINEMATOGRAPHIC APPARATUS
Benjamin Ellan Lubochez, Harrow, England
Application May 26, 1931, Serial No. 540,119, and in Great Britain June 14, 1930
4 Claims. (Cl. 88—16.6)

1. A cinematographic camera comprising in combination a plurality of lenses arranged in ring formation around a common axis, means for directing their optical axes radially outwards from a view-point direction substantially parallel to said common axis, a continuous circular film track around said lenses, a film claw for each lens, a shutter adapted to close and



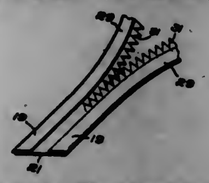
open each lens in turn, means for continuously oscillating the film claws, and means synchronised with said shutter for bringing each film claw successively into operative engagement with the film whilst the corresponding lens is closed by the shutter.

1,923,988
SHOE AND BINDING AND STAY FOR THE SAME
Edward B. Luitwieler, Malden, Mass.
Application April 6, 1932. Serial No. 603,586
5 Claims. (Cl. 36—57)



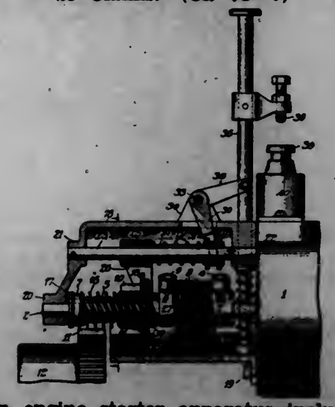
1. Binding and the like for shoes comprising a flaccid textile strip having at one side thereof a continuous coating of flaccid non-tacky water sensitive cementitious material capable of forming a quick drying adhesive when the surface thereof is slightly moistened with water, said coating bridging the interstices among the threads of said strip in non-penetrating relation to the individual threads.

1,923,989
PIPING AND THE LIKE
Edward B. Luitwieler, Malden, Mass.
Application June 4, 1932. Serial No. 615,394
9 Claims. (Cl. 36—57)



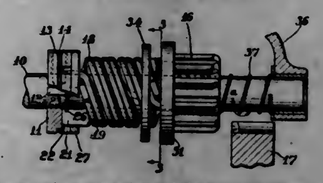
1. Piping and the like comprising a strip of leather or like flexible material one edge portion of which is folded over and secured to the body of said strip by a layer of cementitious material which extends substantially to the opposite edge thereof in contacting non-penetrating relation to said strip, said layer being of sufficient flaccidity to preserve substantially the original property in this respect of said strip and to permit extreme bending of the piping without material flaking or fracture, and being non-tacky when dry and being of such thickness and property as to be capable of forming a quick drying adhesive without softening of the material under the fold when the exposed surface of the layer is slightly moistened with water, and upon drying being again non-tacky and flaccid.

1,923,990
ENGINE STARTER
William L. McGrath, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York
Application October 20, 1920. Serial No. 418,266
25 Claims. (Cl. 74—7)



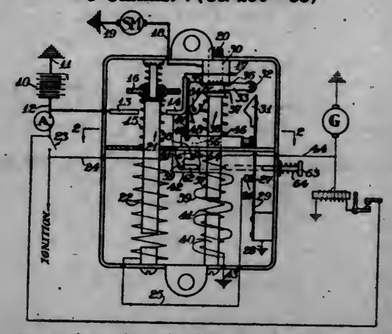
1. An engine starter apparatus including a shaft, a driving member mounted on the shaft for longitudinal movement thereon, manually operated means for shifting such driving member longitudinally of the shaft and into engagement with a member of the engine to be started, and means which is adapted to be driven by said shaft and which is movable in one direction relatively to the driving member and by the final movement of which in the same direction the driving relation between said means and driving member is established.

1,923,991
ENGINE STARTER
William L. McGrath, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York
Application December 31, 1930
Serial No. 505,754
7 Claims. (Cl. 74—7)



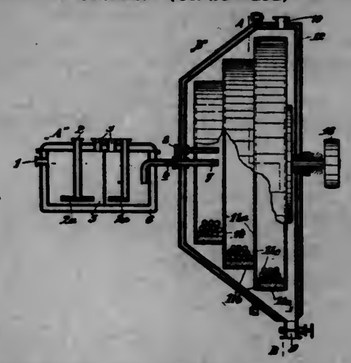
1. An engine starter drive including a power member, a driving member adapted to be moved into and out of engagement with a member of an engine to be started, and means for actuating said driving member from said power member including shifting and rotating means on the driving member, cooperating shifting and rotating means on the power member adapted on acceleration thereof to move the driving member into engagement with the engine member, and means forming a self-tightening friction coupling between said two shifting means for limiting the engine engaging movement of the driving member and for transmitting rotation thereto.

1,923,992
AUTOMATIC STARTING MECHANISM
Maurice P. Whitney, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York
Application February 28, 1931
Serial No. 519,022
6 Claims. (Cl. 290—38)



1. An automatic starting system for internal combustion engines including a starting motor circuit, a control circuit therefor including a pair of contacts, means for operating said contacts to cause the starting circuit to be opened when the engine becomes self-operative, means cooperating with said first named means for operating said contacts to cause the starting circuit to be opened in response to an overload thereon and manually controlled means for preventing the return of said contacts to normal position.

1,923,993
PROCESS AND APPARATUS FOR THE UNINTERRUPTED PRODUCTION OF ALKALINE AZIDS
Josef Meissner, Burbach, Germany
Application September 29, 1931, Serial No. 565,914, and in Germany November 10, 1930
2 Claims. (Cl. 23—191)



1. Process for the uninterrupted production of alkali azids by the uninterrupted production of alkali amide and the subsequent uninterrupted reaction of nitrogen monoxide, which process consists in the uninterrupted introduction of equivalent quantities of molten alkali metals and ammonia into a melt of finished alkali amide which always is present at an excess of 50%, and further allowing the nitrogen monoxide to act on the alkali amide in the presence of alkali azid and sodium hydroxide.

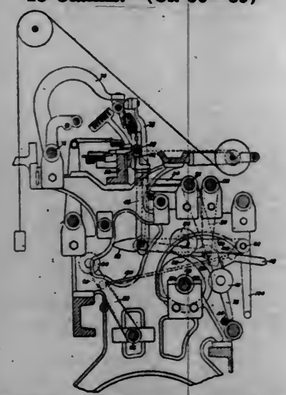
2. Apparatus for the uninterrupted production of alkali azids comprising a reaction-tank,

baffle plates and a heater in the tank, said tank having an inlet for the admission of the liquid alkali metal and separate passages for the admission of ammonia, pipes in the tank for the discharge of the waste gases, a ball-mill for the transformation of the alkali amide into alkali azid, and an overflow passage connecting said tank with said mill for the discharge of the alkali amide from the former into the latter.

1,923,994
KNITTING MACHINE

Max C. Miller, Cumberland, R. I., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey

Application April 19, 1930, Serial No. 445,636
Renewed January 27, 1933
15 Claims. (Cl. 66—89)

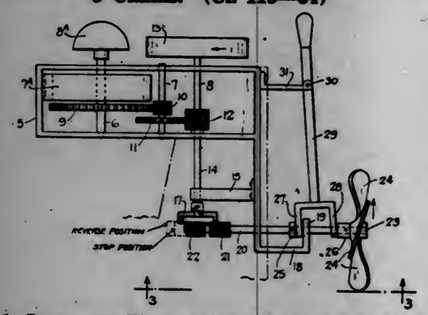


1. In a knitting machine, the combination with a series of needles and cooperating knitting elements to produce a knitted fabric, of means for transferring loops laterally from needle to needle for shaping the fabric, a take-up for tensioning the fabric, and auxiliary take-up means for tensioning portions of the fabric adjacent the said transfer means.

1,923,995
REVERSING AND STOPPING PROPELLER MECHANISM

Cecil John Nock, Brooklyn, N. Y.

Application May 31, 1932. Serial No. 614,470
8 Claims. (Cl. 115—34)

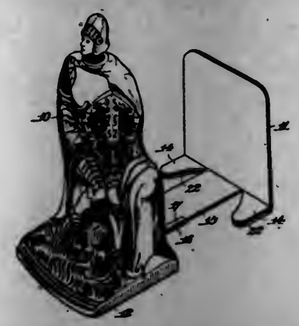


1. In a propelling mechanism a motor, a drive shaft, a rotary propeller shaft, gear connections between said shafts, means for moving said propeller shaft longitudinally to affect a change in said gear connection to reverse the direction of rotation of said propeller shaft, and an intermediate position of said shaft preventing actuation of said motor.

1,923,996
ADJUSTABLE BOOK END HOLDER

Ernest Oldenbusch, Jr., Rockville Center, N. Y.

Application October 15, 1932. Serial No. 638,015
2 Claims. (Cl. 211—43)



2. A device of the character described comprising end members adapted to engage therebetween one or more books, one of said members having a base provided with a recess in the bottom face thereof, a guide extending in the recess and secured horizontally to said base, said guide consisting of a channel, a horizontal extension on the other one of said members formed from the material thereof which is received in said guide, whereby said end members may be variously adjusted with relation to each other, said extension having a projection integral therewith engageable with said base to prevent the separation of the end members.

1,923,997
PHOTOGRAPHIC APPARATUS

Victor Orlando, New York, N. Y., assignor to Charles H. Fernald, New York, N. Y.

Application December 23, 1930
Serial No. 504,347
16 Claims. (Cl. 67—29)

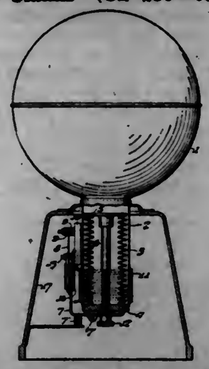


1. In combination with a photographic camera having a shutter, an electrical flash lamp, a support therefor including a source of current and a normally open circuit between the source and the lamp, means to close the circuit including a member arranged for movement axially of said support, and means responsive to the actuation of said member to actuate the camera shutter.

1,923,998
THERMOSTATIC AND LIKE TEMPERATURE RESPONSIVE APPARATUS

Matt Payne, Surbiton, England

Application December 31, 1930, Serial No. 505,901, and in Great Britain January 9, 1930
6 Claims (Cl. 236—68)



1. Apparatus of the kind referred to comprising a vessel whose walls are adapted to be exposed to the surrounding atmosphere, a small body of liquid in said vessel, heating means for said liquid whereby the vessel is filled with vapor which is maintained in a state of dynamic equilibrium by continual evaporation and continual condensation on the walls of the vessel in such a manner that variations in the temperature of the atmosphere surrounding said vessel cause variations in the equilibrium vapor pressure, and means to control an auxiliary device through the variations in said vapor pressure.

1,923,999
NECKTIE HOLDER

Ferdinando Pesavento, Pittsburgh, Pa.

Application November 23, 1932
Serial No. 644,115
1 Claim. (Cl. 24—49)



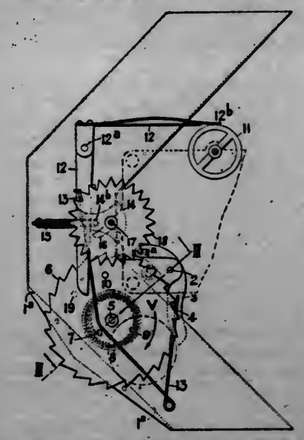
A necktie holder comprising a body having a bore extending therethrough and tapering towards one end to receive and frictionally grip a necktie, said body including integrally connected front and rear walls of solid formation and said rear wall being shorter than the front wall and adapted to have one end thereof abut a collar button with the front wall projecting above the collar button.

1,924,000
COIN INSERTION SAVING DEVICE IN CLOCKS, COUNTERS, AND LIKE MOTION WORKS

Charles Rosat, deceased, late of Boudry, Switzerland, by Rose-Lucy Rosat, née Bôle, administratrix, Boudry, Switzerland, and Anders Torsten Hammarstrand, Djursholm, Sweden

Application December 4, 1930, Serial No. 500,096, and in Switzerland January 31, 1930
7 Claims. (Cl. 194—19)

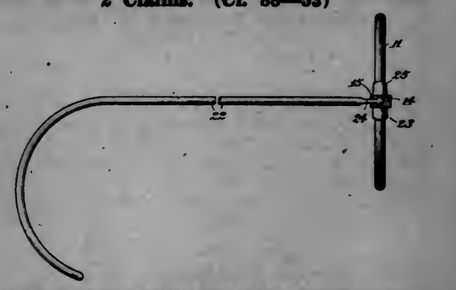
1. A coin insertion saving device in clocks, counters, and like devices employing motion works, comprising means defining a coin insertion groove, driving mechanism for the motion works, a lever for locking the said driving mechanism, an escapement wheel, means constantly tending to rotate said escapement wheel, an escapement lever extending into said coin insertion groove, and associated with said escapement wheel, means on said escapement wheel for controlling said locking lever, the said escapement lever, under energy imparted thereto by the passage of coins through the groove, controlling the escapement wheel for a step by step motion thereof in a direction away from the operable position of said means for controlling the locking lever, means constantly actuated by said driving mechanism for periodically moving said escapement wheel in a reverse direction, towards the operable position of said means for controlling the locking lever, in such manner that when the insertion of coins is discontinued, the means on the escapement wheel will actuate the locking lever to stop the driving mechanism.



1,924,001
SPECTACLE TEMPLE FASTENING DEVICE

Ike Rosenbaum, Mount Vernon, Ind.

Application May 12, 1932. Serial No. 610,909
2 Claims. (Cl. 88—53)



1. In a device of the class described, the combination with a lens, of a pair of cooperative end pieces secured to and projecting laterally from the lens, a temple, said end pieces being so constructed as to form a cavity and communicating slot, and shoulders respectively at the ends of the slot, said temple having a reduced noncircular portion extending through said slot and having a ball on its inner end disposed in said cavity, and means securing said end pieces together, the provision and arrangement being such

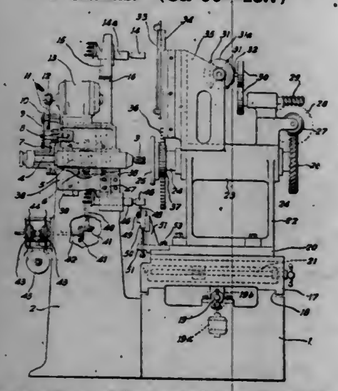
that said temple cannot turn on its own axis and is secured to said lens for pivotal movement in relation thereto limited by said shoulders.

1,924,002
PULLER
Turner C. Rush, Lexington, Ky.
Application June 15, 1932. Serial No. 617,438
2 Claims. (Cl. 55—65)



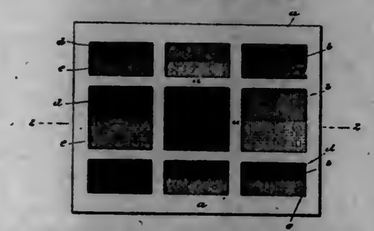
1. A weed exterminator comprising a plate which is fixed on a handle and which plate has its outer end centrally bifurcated to provide twin tines which are parallel with each other for a distance from their juncture with the body plate and from thence are spirally twisted in opposite directions, the said twisted portions being spaced from each other and the outer twisted portions having their ends likewise spaced from each other, the second end of the body plate being provided with a slot and the handle having a slot to receive the end of such plate therein and oppositely directed headed bolts having their shanks ribbed for a portion of their length, passing through the handle and slot and whereby the ribbed portions of the bolts will contact with the walls afforded by the slot in the plate and wing nuts engaging said bolts.

1,924,003
CAM CUTTING MACHINE COMPENSATING MEANS
John C. Shaw and Robert D. Shaw, Brooklyn, N. Y., assignors to Pratt & Whitney Company, Hartford, Conn., a Corporation of New Jersey
Application September 15, 1931
Serial No. 562,968
9 Claims. (Cl. 90—13.7)



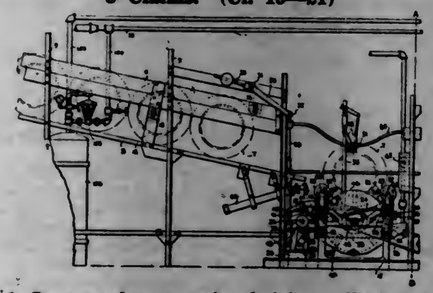
1. In a cam cutting machine, a table, means mounted on said table for rotating a cam blank to be cut, a cutter for cutting the cam, means for effecting relative reciprocating motion between the cutter and table during the cutting of the cam, a tracer controlling said reciprocating motion in accordance with a cam template, said template being mounted for motion in unison with rotation of the cam blank, compensating means comprising a carriage upon which said cutter is mounted for motion at right angles to said reciprocating motion, an arcuate template mounted upon said table in fixed relation with the axis of the cam blank and parallel with the direction of reciprocating motion, a tracer mounted on said cutter carriage for cooperation with said arcuate template for controlling the transverse position of the cutter relative to the axis of the cam blank, during said reciprocating motion.

1,924,004
SAMPLE CARDS
Bernard F. Stenz, New York, N. Y.
Application January 30, 1931. Serial No. 512,406
1 Claim. (Cl. 206—82)



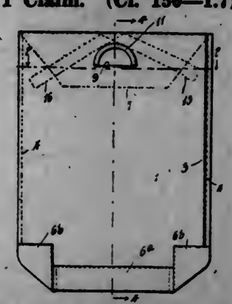
A hosiery-sample-display card formed of a single piece of cardboard or the like, including a panel embossed in the cardboard and simulating a sample or swatch of sheer hosiery fabric in mesh and texture, said panel having a pair of differently colored fields arranged in close relation, one of said fields representing the said simulated fabric in its dyed color and shade as it would appear when observing a plurality of layers of the simulated hosiery fabric such as if a stocking formed of the simulated hosiery-fabric were rolled or folded upon itself, and the other of said colored fields representing a single layer of said simulated hosiery fabric as it would appear when made up into a stocking and worn.

1,924,005
WASHING MACHINE
Horace D. Stevens, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio
Application October 28, 1930. Serial No. 491,673
3 Claims. (Cl. 15—21)



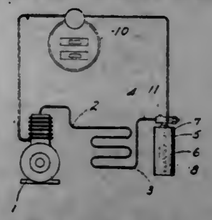
1. In a washer, a pair of drive rolls for supporting and rotating an article during the washing operation, and means for adjusting the distance between said drive rolls, whereby different sized articles may be washed thereon, said means being operable by the article itself as it enters the washer.

1,924,006
SHOPPING BAG
Ela D. Story, Tyler, Tex.
Application October 3, 1929, Serial No. 397,115
Renewed June 2, 1933
1 Claim. (Cl. 150—1.7)



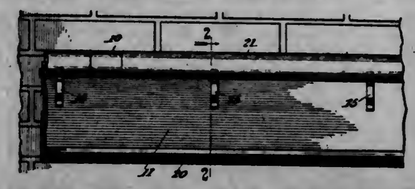
A shopping bag, comprising a body portion consisting of pieces of material providing the sides of the bag and secured together by stitching through overlapped edges of said pieces, the pieces of material at the top or mouth of the bag folded inwardly and secured to the respective pieces forming the sides, the material of the body portion and of the inturned portions provided with alined openings forming hand-holds, a filler strip of material secured in the fold of each inturned portion, and other strips secured between the body and inturned portion and crossed above said hand-holds, said filler strip and other strips providing reinforcements for the hand-holds and providing means to distribute the weight of the bag and its contents to portions remote from said hand-holds.

1,924,007
FITTING
Albert J. Weatherhead, Jr., Cleveland, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a Corporation of Ohio
Application January 18, 1932. Serial No. 587,307
4 Claims. (Cl. 62—115)



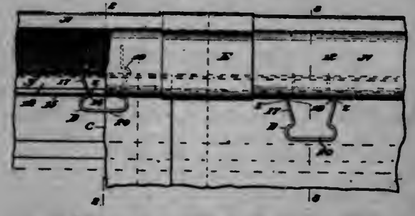
1. In a refrigerating system, a compressor, a condensing unit, and a cooling unit, conduits from the compressor to the condensing unit and from the condensing unit to the cooling unit, a fitting carried by the condensing unit having a passage into the condensor connected to the conduit from the compressor, a second passage in the fitting leading into the condensing unit and connected to the conduit leading to the cooling unit, a venting passage in the fitting leading into the condenser, and a valve arranged in the fitting for controlling the venting passage.

1,924,008
ROOF-FLASHING
Emile Weil, New Orleans, La.
Application June 26, 1931. Serial No. 547,115
26 Claims. (Cl. 108—26)



1. In a flashing for the exposed junction of a roof surface and a wall surface where a flashing member extends around the angle between said surfaces, an anchor plate attachable to a surface and having a forward marginal edge portion turned downwardly and then upwardly, a counter-flashing element having its upper edge formed with a forwardly extending hook-like portion engaging with said upwardly turned edge portion of the anchor plate to suspend said flashing in position and permit its removal and replacement on the anchor plate without injury or deformation to said parts, and a releasable locking device supported by said anchor plate and engageable with said counter-flashing element to hold the latter against said flashing member.

1,924,009
ROOF FLASHING
Emile Weil, New Orleans, La.
Application July 30, 1931. Serial No. 554,110
23 Claims. (Cl. 108—26)

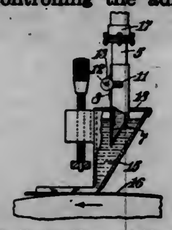


1. In a flashing construction, an anchor member having a downwardly extending flange, a counterflashing insertable under said member and behind the flange, interengageable means on said counterflashing and said member and constructed for permitting ready attachment and detachment of the counterflashing from said anchor member, and a lock member movably mounted on said anchor member and movable into and out of locking position and having a portion thereof formed to obstruct the disengaging movement of said counterflashing from said anchor member when in locking position.

1,924,010
MACHINE FOR CASTING FILMS OR THE LIKE
Alfred Robert Wickham, Sawston, Cambridge, England, assignor to Spicers Limited, London, England, a British Company
Application November 18, 1931, Serial No. 575,936, and in Great Britain December 22, 1930
6 Claims. (Cl. 18—15)

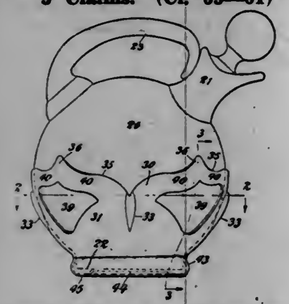
1. The combination with the casting box of a film-casting machine, of a supply tank to contain dope, a conduit communicating between the

supply tank and the casting box and having an outlet extremity extending within the latter, and a valve for controlling the admission of dope



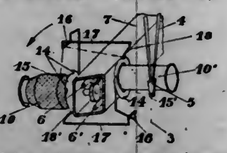
from the conduit to the casting box located at the outlet extremity of the conduit so as to prevent the trapping by the dope supply of air in said conduit and control valve.

1,924,011
HOLDER
John Joseph Willmott, Montclair, N. J., assignor to Louis Farber, Yonkers, N. Y.
Continuation of application Serial No. 605,459, April 15, 1932. This application March 31, 1933. Serial No. 663,794
5 Claims. (Cl. 65—61)



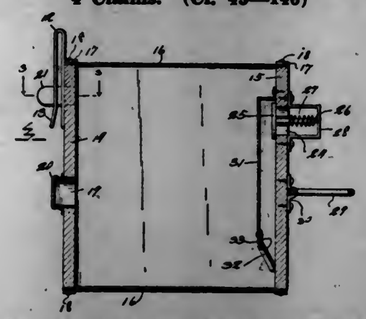
4. In combination, a horizontally extending supporting base having a rigid wall integral therewith and extending upwardly therefrom to form an enclosure open at the top, a pitcher having the lower portion thereof disposed within said enclosure and having a handle above the upper edge of the wall, and resilient grippers adjacent said upper edge of the wall and engaging the pitcher to detachably hold it within the enclosure.

1,924,012
BOBBIN SPINNING MACHINE FOR THE MANUFACTURE OF ARTIFICIAL SILK
Walter Zinselmeyer, Remscheid-Lennep, Germany, assignor to firm Barmer Maschinenfabrik A.-G., Wuppertal-Oberbarmen, Germany
Application December 27, 1930, Serial No. 505,157, and in Germany January 30, 1930
8 Claims. (Cl. 18—8)



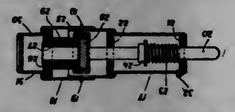
3. In a bobbin spinning machine for the manufacture of artificial silk, a rotatable carrier member, a plurality of bobbin supporting shafts projecting at right angles to said members in spaced angular relation around the axis of the member to move into and out of winding position as the member is rotated, means to rotate said member by a step-by-step movement to bring the bobbin shafts successively into winding position, a thread guide positioned in spaced relation to the winding position of said bobbin shafts, and thread transferrers carried by the carrier member and movable therewith in a path between the thread guide and winding position of the bobbin shafts.

1,924,013
POWDER SPRAYER
James Anderson, Ashland City, Tenn.
Application October 6, 1932. Serial No. 636,609
4 Claims. (Cl. 43—146)



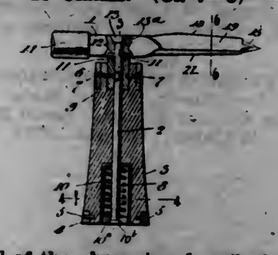
1. A powder spraying means comprising a collapsible receptacle, a nozzle, flexible connecting means connecting the nozzle with the receptacle, said receptacle comprising front and rear walls and a collapsible wall structure disposed between the front and rear walls, an intake valve disposed on the front wall, an air chamber engaging about the intake valve and positioned within the receptacle, said chamber having a discharge port adjacent the bottom of the receptacle, and a check valve normally closing said port whereby to prevent the powder from entering the air chamber.

1,924,014
FUSE FOR ELECTRIC CIRCUITS
August Appel, Vienna, Austria
Application September 14, 1931, Serial No. 562,771, and in Austria September 19, 1930
5 Claims. (Cl. 200—123)



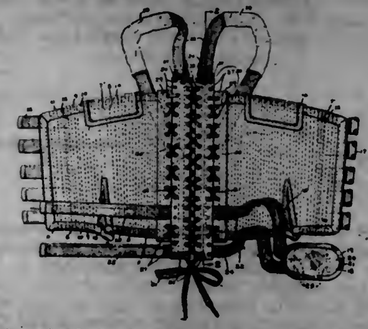
1. In a fuse for electric current circuits of the type in which a switch member heated by the current is caused to execute a switching action by movement relative to a second switch member on attainment or overstepping of a current limit, and in which a plate of easily fusible metal is interposed in the path of the said movable switch member for the purpose of retaining the same in its normal position, a casing consisting of two detachably interconnected parts, a movable switch member in the one of the said parts, a spring adapted to press the said member in an axial direction, the second of the said two parts adapted to serve as a counter support to the said member, and a plate of easily fusible metal loosely inserted in the said second part, the said parts and the said member being so dimensioned that the said plate is brought into position between the said member and the said second part of the casing and the said member is put under tension against the action of the said spring by the mere action of bringing the two said parts together.

1,924,015
COMPOUND TOOL
Charles Balth, Sag Harbor, N. Y.
Application April 13, 1932. Serial No. 605,066
13 Claims. (Cl. 7—8)



1. A tool of the character described, comprising a handle, a shaft carried in the handle and projecting from one end thereof, a head member mounted on said shaft and swiveled with respect to the handle, said head member being provided with a hammer portion at one end and a sharp point at the other end thereof whereby a blow on the hammer portion will serve to drive the point for making a hole.

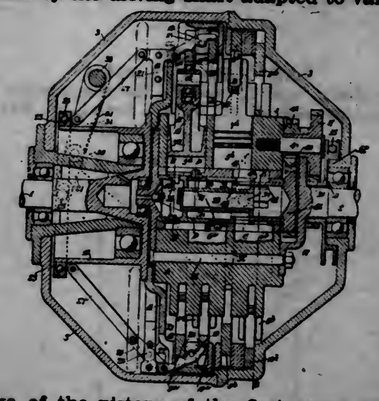
1,924,016
SPINAL APPLIANCE
Ransom J. Barrows, Jamestown, N. Y.
Application February 17, 1932. Serial No. 593,641
7 Claims. (Cl. 2—44)



1. A spinal appliance consisting of a corset-like body having back stay means extending below the body proper, an abdominal pad below the body, strap means connected to said stay means below the lower edge of the body proper, strap means connected to said stay means above the lower edge of the body proper, each of said strap means supporting said pad.

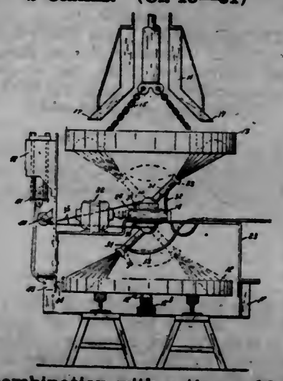
1,924,017
HYDRAULIC TRANSMISSION MECHANISM
Jesse Bedford, Luton, England, assignor of one-half, to Matthew Clough Park, Luton, England
Application October 5, 1931, Serial No. 567,092, and in Great Britain October 6, 1930
9 Claims. (Cl. 60—53)

1. Hydraulic variable transmission mechanism comprising in combination a driving shaft and a driven shaft, a reciprocating pump adapted to circulate the working fluid and comprising cylinders carried by the driven shaft and pistons for reciprocation in said cylinders, a second reciprocating pump adapted to receive the fluid circulated by the first said pump and comprising cylinders also carried by the driven shaft and pistons for reciprocation in said latter cylinders, means carried by the driving shaft adapted to vary the



stroke of the pistons of the first pump, means carried by a stationary part adapted to vary the stroke of the pistons of said second pump, and means connecting said two stroke varying means so that as the stroke of the pistons of the first pump is increased from zero to maximum the stroke of the pistons of the second pump is simultaneously and correspondingly decreased from maximum to zero.

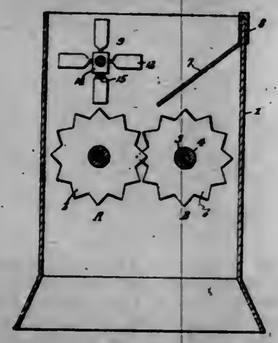
1,924,018
MOLD TREATING APPARATUS
William E. Begley and Henry H. McGregor, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio
Application April 13, 1929. Serial No. 354,853
2 Claims. (Cl. 18—31)



1. The combination with a tire mold conveyor system including lower and upper conveyors carrying lower and upper annular tire mold sections respectively between a point where the completed tires are removed from the molds and a point where the tires to be vulcanized are mounted therein, of a spraying device including spray nozzles mounted in association with said conveyors and capable of a gyratory movement to direct sprays of treating materials about the

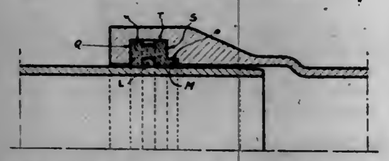
annular mold cavities of said upper and lower mold sections, means for supplying treating materials under pressure to the nozzles, means for continuously imparting gyratory motion to said nozzles, said nozzles normally being closed, and means operable by the mold sections to open said nozzles as the mold sections pass into cooperating relation to said nozzles to spray the cavities of said molds with such mold treating materials.

1,924,019
EAR CORN CRUSHER
Oscar Berga and Lyman A. Rambo, Amboy, Ill.
Application March 26, 1932. Serial No. 601,374
1 Claim. (Cl. 146—122)



In an ear corn crusher, a pair of crushing rollers, means for rotating the rollers towards each other, a shaft rotatably arranged above one of the rollers, blade-like members arranged in groups on the shaft with the groups spaced apart, means for rotating the shaft in an opposite direction from the direction of rotation of the roller over which it is placed, whereby the blade-like members will force the ears of corn towards the other roller, and a downwardly and inwardly sloping baffle plate located above and spaced from said other roller.

1,924,020
TIGHT JOINT FOR PIPINGS
Oscar Bihet, Flemalle Haute, Belgium
Application January 2, 1932, Serial No. 584,543, and in Belgium June 11, 1931
2 Claims. (Cl. 285—163)

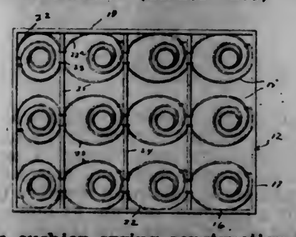


1. In a pipe conduit in which the end of one pipe member enters the end of another pipe member, a coupling for making a tight joint between the outer surface of the inner member and the inner surface of the outer member, comprising an annular ring of H section received in an annular groove in one of said surfaces, the flanges which project out of the groove being spaced apart a distance determined by the length of the first flange whereby said first flange fills the space therebetween, and said first flange being of sufficient width to cause compression of both said first flange and the resilient material onto which it is bent.

1,924,021
FRICTION ELEMENT
William A. Blume, Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y., a Corporation of New York
No Drawing. Application January 5, 1931, Serial No. 506,752
3 Claims. (Cl. 106—7.5)

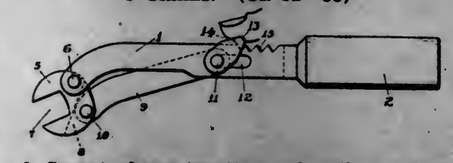
1. A friction element comprising a base including asbestos and finely divided natural pyrobituminous material, and a bonding material of vegetable drying oil purely polymerized, that is, containing substantially no oxidized oil.

1,924,022
CUSHION CONSTRUCTION
Fred Burch, Milford, Mich.
Application October 5, 1931. Serial No. 567,086
12 Claims. (Cl. 155—179)



11. In a cushion spring construction comprising spaced rows of coil springs, a fabric strip disposed in each space between rows in substantially the plane of the adjacent top coils, a flexible reinforcing member attached to each longitudinal edge of said strips, and means securing each reinforcing member to the coils adjacent the longitudinal edges of the strips.

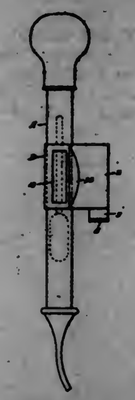
1,924,023
ADJUSTABLE WRENCH
August E. Carlberg, Worcester, Mass.
Application January 8, 1932. Serial No. 585,542
3 Claims. (Cl. 81—53)



1. In a tool construction, a handle member, a tool head pivotally mounted on said handle member, a link member pivotally mounted on said head and slidable longitudinally of said handle, a pawl pivotally mounted on one of said members and cooperating ratchet means on the other of said members to prevent sliding movement of said link relative to said handle selectively in either direction of movement, said pawl, when in position to hold said link against sliding movement in one direction, providing for free movement of said link in the opposite direction of movement.

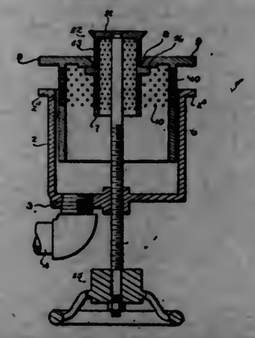
1,924,024
ILLUMINATING DEVICE FOR HYDROMETERS AND THE LIKE
Gosta Richard Carlson, Raritan, N. J.
Application November 26, 1932
Serial No. 644,527
3 Claims. (Cl. 240—6.4)

1. A device for facilitating the reading of a hydrometer or the like comprising a body having a recess therein opening out through one edge of the body with its ends spaced from the upper and lower ends of the body, a lamp in said recess, a pair of split ring clamps connected to said edge of the body, one at the top and the other at the bottom, for engaging the hydrometer and an elongated housing having an elongated opening therein, having its ends fitting over the clamps with



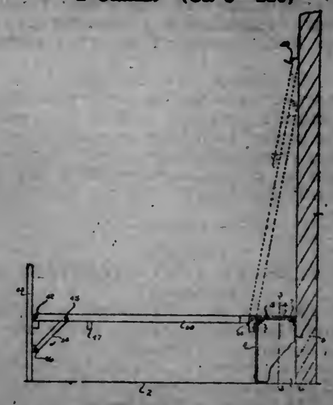
the walls of the opening engaging the body, with the ends of the housing being open, said housing covering part of the hydrometer and having a window therein for exposing a portion of the hydrometer.

1,924,025
STUPEFYING GAS DISTRIBUTOR
Raymond L. Clark, Rochester, N. Y., assignor, by mesne assignments, to Armorite Equipment Incorporated, Rochester, N. Y., a Corporation of New York
Application July 17, 1930, Serial No. 468,572
Renewed February 25, 1933
3 Claims. (Cl. 299—144)



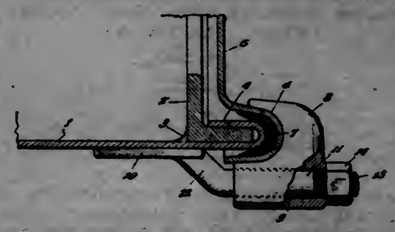
1. Subduing means for penal institutions, comprising a casing having an open side and adapted to be set into a wall with the open side approximately flush with a face thereof, means for supplying the casing with a subduing agent, a closing member for the casing and the opening in the wall in which the casing is set, said closing member being provided with a central opening, a closing member for the central opening, sleeves projecting from the closing members into the casing and provided in their sides with a plurality of small openings, and means remote from the open side of the casing for moving the closing members and sleeves towards and from the casing to provide an escape for the subduing agent.

1,924,026
INSTITUTIONAL BED
Raymond L. Clark, Rochester, N. Y., assignor, by mesne assignments, to Armorite Equipment Incorporated, Rochester, N. Y., a Corporation of New York
Application August 21, 1930, Serial No. 476,782
Renewed February 25, 1933
1 Claim. (Cl. 5—126)



An institutional bed comprising in combination a head member in the form of a rectangular receptacle providing a compartment, an intermediate or bottom member, the rear end of which is hinged to the upper front edge portion of the receptacle, the receptacle having spaced vertically and transversely extending front and rear side walls between which the compartment is located, the hinged connection of the bottom of the receptacle being such that the front or foot end of the bottom member can be swung upwardly and rearwardly, said receptacle having a horizontally and transversely extending fixed top and immediately below the same a horizontally and transversely extending seat member, transversely slidable to and from closed position, and a vertically and transversely extending closure member providing a leg for the seat member when open and as a closure for the open end of the box when in closed position, said leg being secured only at its upper end.

1,924,027
BURIAL VAULT
Thomas H. Clark, Marion, Ohio
Application August 31, 1932. Serial No. 631,283
4 Claims. (Cl. 27—17)



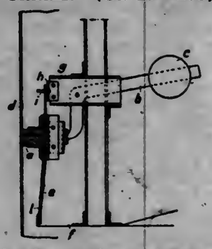
1. In a burial vault, a shell, an angle bar secured upon the inner surface of the shell at an open end thereof and projecting longitudinally beyond said open end, the end of the shell being folded inwardly to clasp the basal flange of the angle bar, a door having a hollow continuous ex-

terior marginal bead conforming to the folded end of the shell, packing seated in and carried by said bead to bear against the folded end of the shell, and means for securing the door to the shell.

1,924,028
MANUFACTURE OF FOUNDRY MOLDS
Jean Baptiste Durand, Marseilles, France
No Drawing. Application September 21, 1929, Serial No. 394,387, and in France September 29, 1928
14 Claims. (Cl. 22—188)

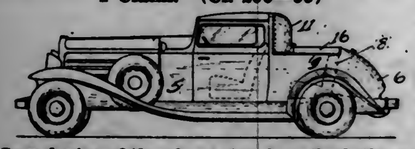
4. A process for the manufacture of molds and cores for foundries consisting in mixing sand and a hydraulic binder with only so much water that the mixture remains sub-hydrated, placing said composition in a mold box, molding and ramming it lightly therein.

1,924,029
PISTON CLOSURE FOR WATERLESS GAS HOLDERS
Friedrich Einbeck and Friedrich Schürmann, Dortmund, Germany, assignors to the firm Aug. Klönne, Dortmund, Germany
Application December 17, 1931, Serial No. 581,762, and in Germany December 27, 1930
14 Claims. (Cl. 48—176)



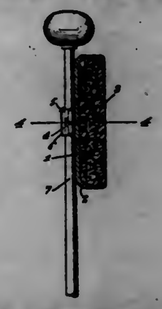
14. A movable closure for waterless gas holders, comprising a piston, a sealing ring, a dilatable ring carrying said sealing ring mounted upon said piston, means for normally dilating said dilatable ring to press the sealing ring against the wall of the holder, said dilatable ring consisting of a plurality of segments suspendingly sustained upon the piston, and a flexible band substantially impervious to gas secured to the piston and interveningly between the sealing ring and segments, pliably joining said segments.

1,924,030
CONVERTIBLE AUTOMOBILE BODY
William Elser, San Francisco, Calif.
Application October 9, 1931. Serial No. 567,907
1 Claim. (Cl. 296—99)



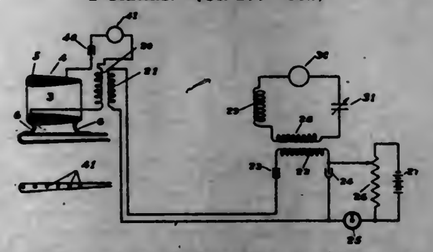
In a device of the character described, the combination of a motor vehicle, comprising a body, a driver's compartment and a rear seat, of a pair of sills formed on said body, a cowl slidable longitudinally on said sills, means for locking said cowl in adjusted position on said sills, and a cover panel positioned on said sills and overlying said rear seat, said cover panel having securing means attached thereto whereby said panel may be elevated above said sills to a position parallel with its first position, to form a roof panel whereby the appearance of said body may be converted from a coupé to a sedan.

1,924,031
KNEE REST
Herbert J. Farrar, Miami, Fla.
Application September 30, 1932
Serial No. 635,665
2 Claims. (Cl. 74—81)



1. A knee rest comprising a plate, marginal flanges on the plate cooperating with the latter in forming a cup-shaped seat, a cushion element secured in said seat and overlying the marginal flanges and a clamp removably secured to the plate for detachably and adjustably securing the plate to a shifting lever for positioning the cushion element whereby a person may rest the knee of one leg thereagainst when employing the foot of the leg for actuating the accelerator.

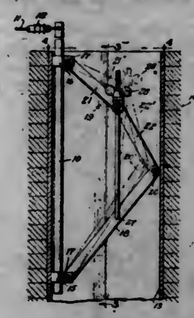
1,924,032
HEIGHT INDICATOR
Reginald Aubrey Fessenden, Wistowe Flatts, Bermuda
Application May 4, 1929. Serial No. 360,461
4 Claims. (Cl. 177—352)



1. In the art of determining heights of aircrafts having a substantially all metal surface, electrical means symmetrically spaced with respect to said metal surface and positioned to be inductively coupled therewith to induce oscillatory current therein.

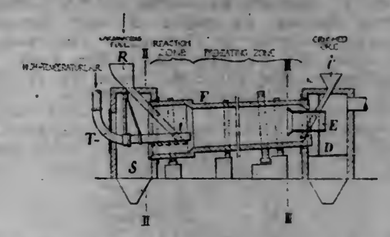
1,924,033
AERIAL SUPPORT
Robert G. Fier, Brooklyn, N. Y.
Application February 7, 1933. Serial No. 655,655
4 Claims. (Cl. 189—31)

4. A mast support for securing a mast within a pipe comprising a pair of clamps adapted to be secured to said mast, a pair of braces hinged to said clamps and to each other, one of said braces comprising a pair of arms hinged to each other at an angle, and means for causing the angle between said arms to approach a straight angle



to thereby extend the hinged connection between said braces.

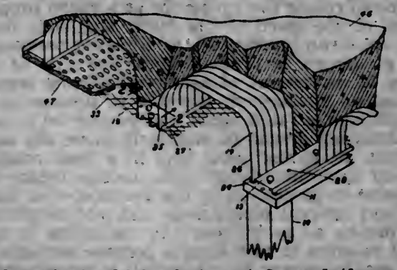
1,924,034
PROCESS FOR THE CONTINUOUS CONVERSION OF FERRUGINOUS MATERIALS INTO SPONGY METALLIC AGGLOMERATES
Alexandre Folliet and Nicolas Sainderichin, Paris, France
Application August 10, 1932, Serial No. 628,544, and in France August 10, 1931
2 Claims. (Cl. 75—14)



1. A continuous process for reducing iron oxide in ferruginous material to metallic iron in spongy form which consists in moistening said material, feeding forward said moistened material in a thin layer, mixing carbonaceous fuel with said material prior to said layer entering the final zone of its forward feed, and subjecting said mixture to the action of penetrating blasts of air heated to temperatures of the order of 750° to 800° C., the gases formed within the mixture due to the action of said penetrating blasts serving as they escape therefrom to give a spongy form to the metallic iron produced by the reaction, said carbon in said fuel being in sufficient quantity to prevent re-oxidizing of said reduced iron.

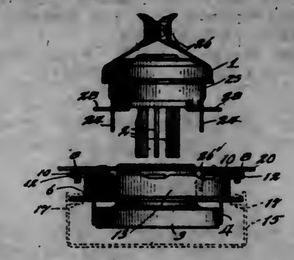
1,924,035
CONCRETE FLOOR CONSTRUCTION
Max S. Goldsmith, Cincinnati, Ohio
Application July 1, 1930. Serial No. 465,118
4 Claims. (Cl. 72—66)

1. In a concrete floor in the course of construction, the combination of temporary support means, rows of elongated hollow inverted U-shaped members on the support means, the rows of members being contiguous along their lateral edges, the lateral edges of alternate rows of the members having pockets, the intermediate rows of members having their lateral edges received in the pockets the rows of inverted members spacing concrete formed thereover, from the temporary support means, and together providing abutment means along the under faces thereof



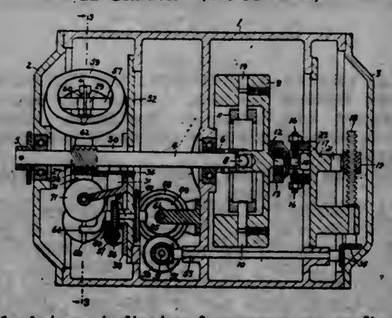
and against which abutment faces lath may be secured in spaced relation to the concrete.

1,924,036
ELECTRICAL CONNECTER
William H. Harrington, West Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a Corporation of Connecticut
Application January 15, 1929. Serial No. 332,628
5 Claims. (Cl. 173—322)



1. An electrical connecter comprising a plug, a plug receptacle, a grounded face plate having a finger thereon, a strain relief fitting on said plug having means thereon co-operating with said finger to ground said fitting.

1,924,037
GYROSCOPIC NAVIGATIONAL INSTRUMENT
James Blacklock Henderson, Blackheath, England
Application April 27, 1929, Serial No. 358,551, and in Great Britain May 9, 1928
11 Claims. (Cl. 33—204)



11. A turn indicator for use on a craft comprising a gyroscope mounted so as to precess upon turning of the craft about an axis which seeks the virtual vertical when the craft turns in azimuth and means to indicate the component rate

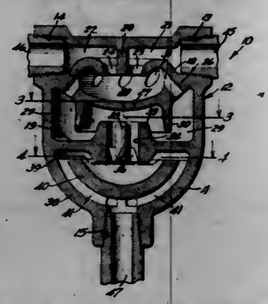
of turning of the craft in azimuth when the said axis banks during a turn, said means comprising means to rotate the gyroscope at a speed proportional to the speed of the craft, angularly movable constraining means for applying torques to the gyroscope in proportion to the sine of the angle of movement of said constraining means, a tangent mechanism movable in proportion to the tangent of said angle and connected to said constraining means to angularly move the same so that the gyroscope is kept in a fixed relation to said axis during said turn, motive means responsive to precession of the gyroscope for moving said tangent mechanism and said constraining means so as to keep the gyroscope in said fixed relation to said axis, a pointer movable by said motive means in proportion to movement of said tangent mechanism, and a scale adjacent said pointer graduated in terms of the angular velocity of the craft in azimuth, said velocity being proportional to the tangent of said banking angle divided by the speed of the craft.

1,924,038

MIXING DEVICE

Abraham M. Herbsman, Huntington Park, and Rodney B. Campbell, Walnut Park, Calif., assignors, by direct and mesne assignments, to Industrial Patents, Ltd., Los Angeles, Calif., a Corporation of California

Application March 6, 1933. Serial No. 659,776
4 Claims. (Cl. 137—111)



1. A liquid mixer comprising a body having two inlet and one outlet openings, a primary central mixing chamber connected by two closely adjacent ports with said inlet openings, an annular mixing chamber connected by spirally disposed ports with said primary central mixing chamber, and a passage leading from said annular mixing chamber to said outlet opening.

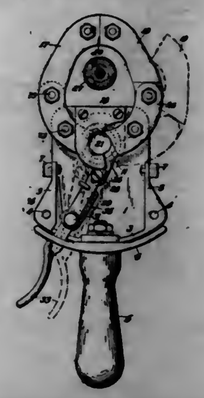
1,924,039

ELECTRICAL MEASURING INSTRUMENT

Harold William Hockley, Chelmsford, England, assignor to Crompton Parkinson Limited, Chelmsford, England, a registered company of Great Britain

Application December 7, 1932. Serial No. 646,175
5 Claims. (Cl. 171—95)

1. A moving-iron electrical measuring instrument which is actuated directly by current passing in a conductor, having in combination a self-contained magnet unit and a movement unit designed to be interchangeable with other units of like construction but of different calibration characteristics, the magnet unit comprising a base, a magnet in the form of a split iron collar divided into only two parts, which parts are permanently separated at one of the division locations by a gap for the reception of the moving iron element of the movement unit and are mounted on the base to open by a movement about an axis within the gap and transverse to



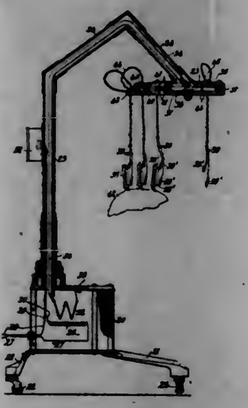
the general plane of the magnet, and each movement unit comprising a moving iron element that is adapted to be received within the magnet gap.

1,924,040

HAIR WAVING DEVICE

Benno F. Jancke, Brooklyn, N. Y.; Christine Anna Jancke, Executrix of said Benno F. Jancke, assignor to Thermique, Incorporated, St. Louis, Mo., a Corporation of New York

Application May 13, 1930. Serial No. 451,916
5 Claims. Cl. 219—24)



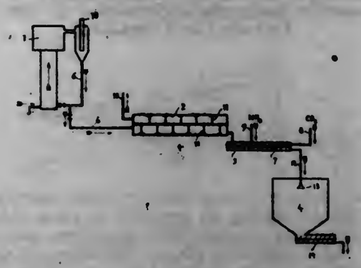
4. An electric hair-waving device comprising an electric heating element, a source of electromotive force comprising a pair of electric terminals, and electrical connections between said terminals and said heating element, comprising a pair of conductors, the combined resistance of said heater and conductors being such that the heater may receive its normal energizing current when the difference of electric potential at the terminals of the source of electromotive force is such as to be scarcely perceptible when short-circuited by a part of the human body, and the resistances of the heater and conductors being so apportioned that the heater connecting ends of the conductors might be short-circuited without damaging consequences.

1,924,041

PROCESS OF MANUFACTURING A PRODUCT CONTAINING AMMONIUM NITRATE AND CALCIUM CARBONATE

Erling Johnsen, Odda, Norway, assignor to firm Odda Smelteverk A/S, Odda, Norway

Application February 27, 1930, Serial No. 431,973, and in Norway March 4, 1929
2 Claims. (Cl. 71—9)
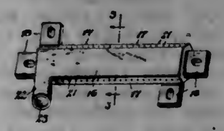


1. The process of manufacturing in a single operation a solid product containing intimately admixed ammonium nitrate and calcium carbonate, comprising subjecting a solution of calcium nitrate continuously in counter-current with stirring to reaction with ammonia and an excess of carbonic acid and removing water from the reaction product.

1,924,042

OVEN BURNER

Henry J. Karges and George J. Zurstadt, Evansville, Ind., assignors to Indiana Stove Works, Evansville, Ind., a Corporation of Indiana

Application August 13, 1931. Serial No. 556,854
1 Claim. (Cl. 158—104)



An oven gas burner consisting of a hollow elongated burner element comprising flat top and bottom walls joined by relatively angularly disposed side walls, each of certain of said side walls being apertured to discharge the gas laterally downward, at opposite sides of the burner, said element having laterally extending gas inlet means on one end thereof, and means integral with the element for attaching it.

1,924,043

METAL CONTAINER

Augustus B. Kinzel, Beechhurst, Long Island, N. Y., assignor to Electro Metallurgical Company, a Corporation of West Virginia

No Drawing. Application September 2, 1930
Serial No. 479,413
3 Claims. (Cl. 122—4)

1. A vessel designed for use under conditions adapted to produce caustic embrittlement in carbon steel, parts of said vessel exposed to such conditions being composed of a ferrous alloy containing 5% to 30% of chromium, and consisting, in its metallographic structure, predominantly of alpha chrome ferrite.

1,924,044

CONCRETE SAFETY MINING UNIT

John MacDougall, Wyoming, Pa.

Application December 30, 1930
Serial No. 505,591
1 Claim. (Cl. 72—72)



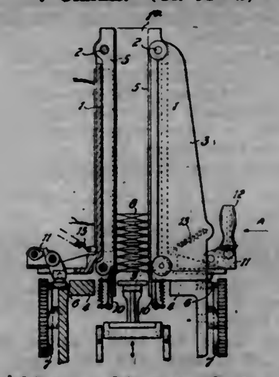
A concrete safety mining unit comprising a pillar formed of a plurality of block-like units imposed one upon the other to provide uniform straight vertical walls to the pillar at all sides thereof, each unit composed of a plurality of long and short blocks, the blocks of each unit being placed in a row and the blocks of the next unit placed at right angles to the blocks of the first unit whereby the units are alternately arranged with the blocks of alternate units extending at right angles to the blocks of the other units, lugs formed on the lower face of each block, each block having recesses in the upper face, whereby the said blocks are locked together by the interfitting of the lugs in the recesses, reinforcements in the respective blocks, and a bonding material arranged between the blocks, the lugs and recesses being of corresponding sizes with respect to each other and of wedge formation.

1,924,045

PACKING MACHINERY

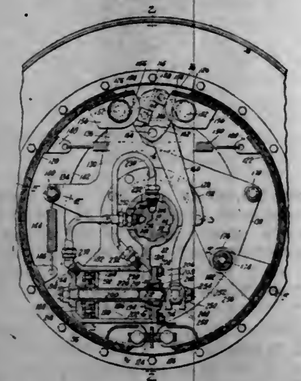
Walter Everett Molins and John Walker Chalmers, Deptford, London, England

Application March 17, 1932, Serial No. 599,582, and in Great Britain March 18, 1931
7 Claims. (Cl. 93—2)



1. In packing machines employing containers of the type having one side thereof provided with gummed flaps, the combination with a stacker having at least one wall thereof supported for movement away from and toward the containers accommodated therein and normally engaging and retaining the gummed flaps in position, of separate means associated with the stacker and extending into close proximity to the said side of the containers for engaging and retaining the container flaps in position on movement of the said movable stacker wall away from the containers.

1,924,046
VEHICLE BRAKE
Vincent G. Apple, Dayton, Ohio, assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois
Application November 14, 1929
Serial No. 407,085
6 Claims. (Cl. 188—152)

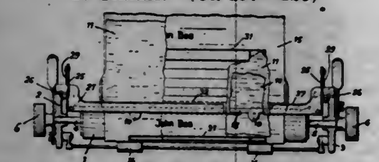


4. Braking mechanism including in combination, a rotatable closed drum, a hub co-axial with said drum secured against rotation therein, arms extending radially outward from said hub, radially expansible friction shoes of channel shaped cross section secured to said arms, an arm secured to the inner face of one of the shoes and extending inwardly, a cam rotatably mounted in one of said outwardly extending arms and contacting the inner extremity of said inwardly extending arm, and means in one face of said drum providing access to said cam.

1,924,047
CONSTRUCTIONAL MATERIAL
Albert C. Fischer, Chicago, Ill., assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio
No Drawing. Application August 15, 1927
Serial No. 213,185
6 Claims. (Cl. 91—68)

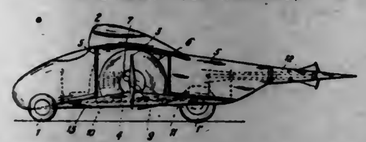
1. Constructional material comprising a foundation sheet, a dense waterproofing mastic applied to the foundation sheet, and a water soluble protective layer superposed on the mastic.

1,924,048
MANIFOLDING DEVICE FOR TYPEWRITERS
John Stuart Fleming, Toronto, Ontario, Canada, assignor, by mesne assignments, to Niagara Fold, Inc., Niagara Falls, N. Y., a Corporation of New York
Application June 28, 1928. Serial No. 289,030
17 Claims. (Cl. 197—126)



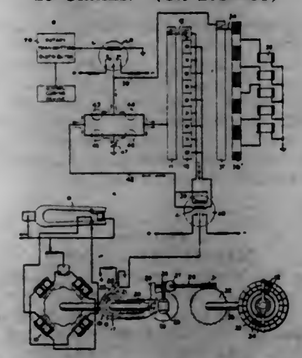
14. In a machine of the character described, in combination, a carbon placer shiftable with the record strips used in said machine and including a plurality of superposed transfer sheets and an aperture in one of said sheets, and means, including a placer positioning member, cooperable to enter said aperture and simultaneously check advance shift movement of said sheets.

1,924,049
AEROPLANE
Paul Mosimann, Utzenstorf, Switzerland
Application February 27, 1932, Serial No. 595,632, and in Switzerland February 9, 1932
1 Claim. (Cl. 244—16)



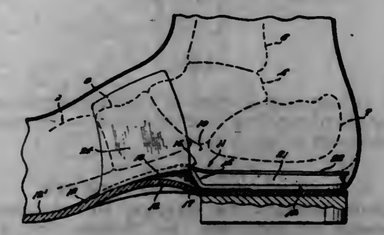
An aeroplane, comprising in combination with the fuselage having an aperture in each side and the supporting planes, two propellers arranged under the supporting planes one on each side of the fuselage adapted to rotate in the direction of travel, to exert their effect when rotating directly under the fuselage and the supporting planes and to whip the air downwards and chiefly towards the rear, thus imparting a forward and upward impulse to the aeroplane, a common axle extending transversely through the apertures in said fuselage and carrying one of said propellers at each end, a casing on each side of said fuselage partly surrounding the corresponding propeller and allowing said propeller to project at the underside, and two small propellers mounted on said axle one in each aperture in said fuselage adapted to throw air against said propellers to effect the circulation of the cooling air for the engine and at the same time to increase the air pressure within the range of said propellers.

1,924,050
CORRECTING MECHANISM FOR SYNCHRONOUS APPARATUS
Oscar E. Pierson, Brooklyn, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York
Application May 15, 1931. Serial No. 537,732
19 Claims. (Cl. 178—53)



1. In a signal system having a source of current reversals, a method of integrating every reversal to obtain the relative position of the average reversal comprising producing an electrical impulse of short duration and uniform direction in definitely timed relation to each reversal, utilizing said impulses which occur in advance of the average position to supply current of one polarity to a circuit, utilizing the impulses occurring at the other side of the average position to supply current of the opposite polarity to said circuit, current of only one polarity being supplied at a time through said circuit and controlling an indicating device by the current in said circuit.

1,924,051
ARCH SUPPORTER
Luigi Pignanelli, Tacoma, Wash.
Application October 15, 1930. Serial No. 488,796
9 Claims. (Cl. 36—71)



1. In an insertable insole for a shoe formed to provide in its rear portion a substantially plane face adapted to be disposed in the heel portion of the shoe, the front wall of said heel portion extending substantially vertically upwardly to a transverse ridge from which the fore portion projects forwardly to the ball of the shoe, the apex of said ridge forming a relatively sharp angle serving to wedge into the fleshy part of the underfoot below the astragalus bone, said ridge sloping downwardly from the inner to the outer edge to merge at the latter with the approximate plane of said rear portion, a sponge cushion superposed over said rear portion to act as a rest for the heel of the foot, said cushion tapering from a plane relatively in alignment with the inner edge of the ridge to a feather edge on its outer side.

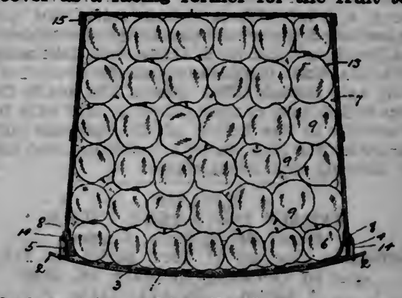
1,924,052
SOLUBLE FATTY ACID CONDENSATION PRODUCTS
Ian C. Somerville, Fox Chase, Pa., assignor to Rohm & Haas Company, a Corporation of Delaware
No Drawing. Application May 9, 1930
Serial No. 451,199
15 Claims. (Cl. 260—4)

1. As new compositions of matter, the water soluble products formed by condensing a phenol with an aldehyde, then condensing this product with an unsaturated fatty acid to form a resinous material, finally sulphonating this resin.

1,924,053
METHOD OF PACKING FRUIT
Samuel H. Sheller, Marion, Pa., assignor of one-half to George R. Hamlin, Washington, D. C.
Application September 16, 1929
Serial No. 392,884
18 Claims. (Cl. 226—17)

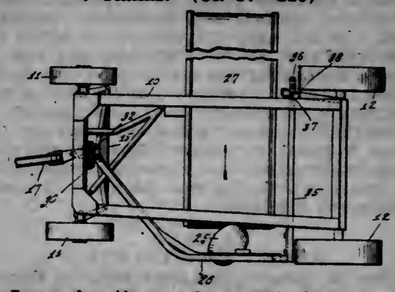
6. The method of packing the initial or "facing" layer of fruit in a packing operation for a fruit container, consisting in building an outer part of the layer of fruit against a movable abutment as a starting point, then moving said abutment to a new position and building one or more successive inner layers of fruit when again using said abutment as a starting point.

17. The method of packing fruit in a container, consisting in using the fruit container top or cover as a facing former for the fruit to be



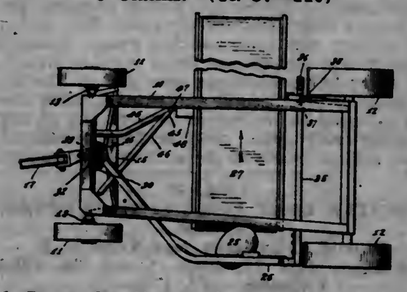
packed, and in packing the fruit in superposed relationship thereto.

1,924,054
ELEVATING GRADER
Floyd D. Wallace, Indianapolis, Ind., assignor to J. D. Adams Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana
Application March 26, 1932. Serial No. 601,351
7 Claims. (Cl. 37—110)



1. In an elevating grader, a main frame, a front axle mounted for vertical movement relatively thereto, a plow-beam having its front end secured to said axle at an intermediate point thereon, a plow mounted on said plow-beam, and means for adjusting the rear end of said plow-beam vertically, and an adjustable means for positioning said plow-beam laterally of said main frame.

1,924,055
ELEVATING GRADER
Floyd D. Wallace, William A. Cost, and Joseph W. Hartley, Indianapolis, Ind., assignors to J. D. Adams Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana
Application April 20, 1932. Serial No. 606,368
9 Claims. (Cl. 37—110)



1. In an elevating grader having a main frame and a carrier projecting from one side thereof,

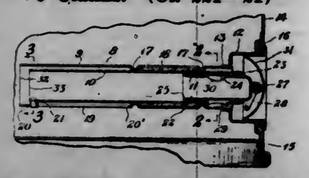
front and rear wheels for supporting said main frame, a front axle on which said front wheels are mounted, means for pivotally interconnecting said front axle and main frame on a substantially horizontal axis displaced from the center of the front axle toward that side of the main frame from which said carrier projects, said axle being connected to the frame at the opposite side of the center for free vertical oscillation and means for steering said front wheels.

1,924,056
STRAIN INSULATOR CHAIN
Henri Benit, Paris, France
Application January 27, 1931, Serial No. 511,565, and in Germany January 28, 1930
1 Claim. (Cl. 173—318)



Strain insulator chain for horizontal traction, comprising vertical-axis insulators having oil filled cups the axis of symmetry of which coincides with that of the insulators, said cups creating a horizontal leakage path for the said insulators at the oil surface, and connecting members rigidly securing the insulators together, said connecting members being substantially rectilinear, disposed in parallel relation to the axis of the insulator chain and connecting alternatively the upper extremities and the lower extremities of adjacent insulators.

1,924,057
FAUCET CONSTRUCTION
Charles H. Draper, Cleveland Heights, Harry W. Lees, Shaker Heights, and Walter C. Grosser, Cleveland, Ohio
Application June 27, 1932. Serial No. 619,486
9 Claims. (Cl. 221—21)



1. In a container, a disappearing faucet including a first tubular member connected to a wall of the container, a second tubular member telescopically mounted in the first tubular member, a third tubular member rotatably mounted with respect to the second tubular member, packing means interposed between said first and second tubular members, packing means interposed between said second and third tubular members, and there being openings provided in the tubular walls of said second and third tubular members adapted to be moved into or out of register with each other upon relative rotation between said second and third tubular members.

1,924,058
EXCITER LAMP FOR PHOTO-ELECTRIC CELLS
Donald V. Edwards, New York, N. Y.
Application July 23, 1930. Serial No. 470,124
7 Claims. (Cl. 176—26)

1. A polyphase lamp comprising a plurality of spiralled filaments of substantially equal dimensions disposed on a common axis with their turns interposed and in spaced relation and adapted to be energized simultaneously, a common connec-

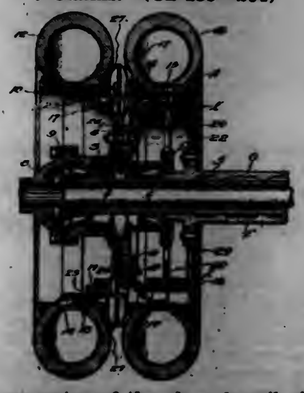


tion at one end of each of said filaments, and a separate connecting lead attached to the opposite end of each of said filaments.

1,924,059
PREPARATION OF COFFEE
William Hoskins, La Grange, Ill., assignor, by mesne assignments, to Harold W. Clark, Berkeley, Calif.
No Drawing. Application August 7, 1931, Serial No. 555,874. Renewed January 30, 1933
1 Claim. (Cl. 99—8)

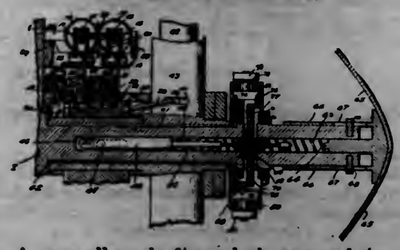
The method of preparing roasted coffee beans which comprises admixing with the roasted coffee beans a solid refrigerant substance which normally exists in the gaseous state and which is capable of changing from the solid state directly into the gaseous state and comminuting the coffee beans while in admixture with said refrigerant, thereby maintaining the coffee in such chilled condition that the normally volatile natural aroma-imparting constituents will remain in the comminuted coffee particles, and packing the chilled coffee particles in a closed container and while said coffee particles are admixed with said solid refrigerant, thereby forming an atmosphere of the resulting gases within said packed container.

1,924,060
METHOD OF AND MEANS FOR COOLING BRAKES
Louis C. Huck, New York, N. Y.
Refile for abandoned application Serial No. 77,733, December 26, 1925. This application March 31, 1930. Serial No. 440,524
6 Claims. (Cl. 188—264)



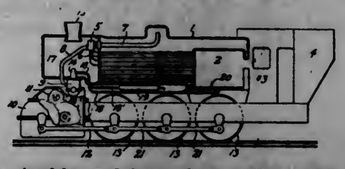
1. In apparatus of the class described a brake mechanism, rotating parts to act as a centrifugal pump, and means having openings connecting the space around said brake mechanism with the outside air on one side and the centrifugal pump on the other to cause a positive circulation of outside air across the braking portion of said brake mechanism, through the pump and back to the outside air.

1,924,061
AUTOMATIC VARIABLE PITCH PROPELLER
Chandley W. Lambert, Cleveland, Ohio
Application September 21, 1932
Serial No. 634,354
9 Claims. (Cl. 170—162)



1. A propeller shaft, a hub secured to said shaft, a propeller blade shank rotatable relatively to said hub, a collar slidable on said shaft, means for rotating said shank by said collar, brake wheels cooperating with said collar, means controlling operation of brake shoes on said brake wheels, selective means cooperating with said collar and a pressure plate for operating said control means.

1,924,062
TURBINE DRIVEN LOCOMOTIVE
Alf Lysholm, Stockholm, and Fredrik Ljungström and Erik Otto Eriksson, Lidingo, Sweden, assignors to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden, a Swedish Corporation
Application November 26, 1932, Serial No. 644,474, and in Sweden January 14, 1928
8 Claims. (Cl. 105—38)



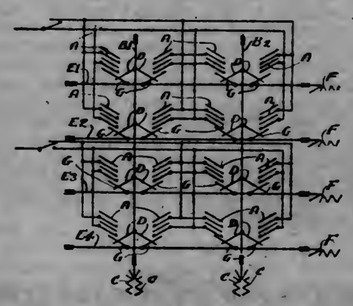
1. A turbine driven locomotive comprising driving wheels, a turbine having rotatable blade carrying means, blades on said means, reduction gearing for causing said means to drive said wheels, the ratio of speed reduction of said gearing being so related to the diameter of said driving wheels that the speed of rotation of said means at which maximum turbine efficiency is produced corresponds to a locomotive speed less than the maximum speed thereof, and the diameter of said means, the number of rows of moving blades, and the speed of rotation of said means as determined by the diameter of said driving wheels and the ratio of said gearing being so related to the difference in heat content of the motive fluid as admitted to and as exhausted from the turbine that at speeds within normal operation the ratio between the sum of the squares of the values of the blade speeds, expressed in meters per second, and the adiabatic heat drop of the motive fluid in the turbine, expressed in kilogram calories, is greater than 2800:1.

1,924,063
LOUD SPEAKER
Chakir Midhat, Berlin-Eichkamp, Germany
Application June 12, 1931, Serial No. 544,057, and in Germany June 24, 1930
10 Claims. (Cl. 181—31)



1. A loudspeaker, comprising, in combination, a large-size diaphragm, a rigid baffle board surrounding the rim of said diaphragm and extending laterally from it; a resonance body arranged in front of said baffle board and constituting with it a resonance box, the side walls of said box being attached in part to said baffle board and in part to said resonance board, and a driving unit adapted to cause said diaphragm to oscillate, substantially as set forth.

1,924,064
ARRANGEMENT IN RELAY-COMBINATION GROUPS
Gotthilf Ansgarius Betulander, Soderterns Villastad, Sweden
Application December 22, 1928, Serial No. 328,041, and in Sweden January 25, 1928
1 Claim. (Cl. 179—27.54)

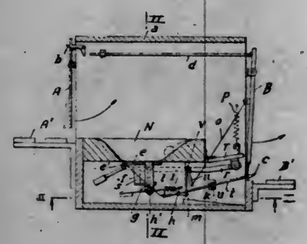


In selecting means for telephone systems, indicating and connecting members, and a plurality of contact groups each composed of duplicate contacts sets, each contact of a set in a group being connected with the corresponding contact of the appertaining set of the total contact groups to form a common contact system, transfer switches adapted to cut in said duplicate contact sets alternatively into circuits, and a single movable member replacing two adjacent indicating members.

1,924,065
PROCESS OF MAKING ZINC META ARSENITE
Leo P. Curtin, Cranbury, N. J.
No Drawing. Application April 23, 1932
Serial No. 607,228
5 Claims. (Cl. 23—53)

1. Method of preparing zinc meta arsenite which comprises reacting a soluble zinc salt and a soluble compound of arsenous acid in a reaction mixture maintained at a hydrogen ion concentration permitting the formation of the meta arsenite but preventing the formation of the ortho arsenite by the presence of carbonic acid.

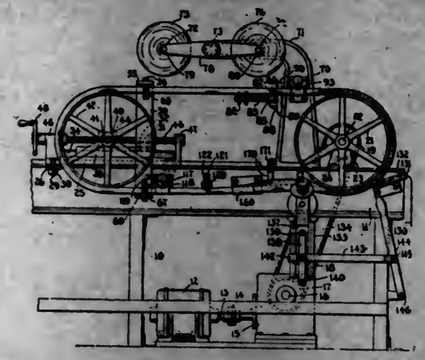
1,924,066
CORRIDOR TRAP NEST
Hans Fleischmann, Schwabach, Germany
Application June 25, 1932, Serial No. 619,301, and in Germany February 7, 1931
2 Claims. (Cl. 119—47)



1. A corridor trap nest having an entrance flap door and an exit and a nest body having a trap opening, comprising in combination, a tilting bottom plate member journaled below said trap opening, a one-armed lever connected loosely to the underside of said tilting bottom plate member, a rigid support member attached to the underside of said nest body in position to receive the free end of said one-armed lever, a tread board pivotally secured to the end of the nest body and extending towards the exit flap door, a tension spring adapted to raise said tread board, a pivotally mounted rod attached at one end to the underside of said tread board and a projecting arm connected to the other end of said rod and positioned to engage with the free end of said one-armed lever when said tread board is depressed.

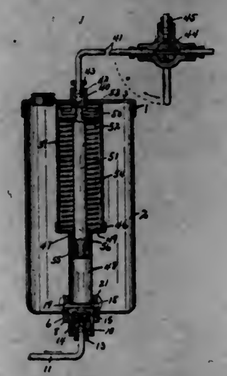
1,924,067
METHOD OF AND MACHINE FOR BUILDING BELTS
William H. Gerstenslager, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio
Application March 25, 1930. Serial No. 438,771
19 Claims. (Cl. 154—4)

1. The method of manufacturing V-belts which comprises winding a plurality of plies of rubberized material varying progressively in width about a plurality of spaced rollers while rotating the latter, applying a woven fabric cover to the core thus formed during its movement by stitching one end of the latter fabric to the core and folding edge portions of the



fabric about the core, and finally vulcanizing the assembly.

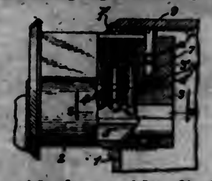
1,924,068
LUBRICANT RESERVOIR AND PUMP FOR CENTRAL LUBRICATION SYSTEMS
Frederick H. Gleason, Auburn, N. Y., assignor to Bowen Products Corporation, Auburn, N. Y., a Corporation of New York
Application June 18, 1928. Serial No. 286,310
16 Claims. (Cl. 184—28)



1. A lubricating apparatus comprising a reservoir, a pump cylinder, a piston movable in said cylinder, a piston rod for actuating the piston, said piston rod formed with an axial passageway and a radial passageway leading therefrom to the interior of the cylinder, a relief pin positioned in the axial passageway and of slightly less diameter than the interior diameter of the passageway, and having a portion of decreased cross-sectional area adapted to lie opposite the radial passageway.

1,924,069
LOCK AND LATCH
Norman B. Hurd, Newington, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut
Application March 2, 1933. Serial No. 659,254
12 Claims. (Cl. 70—47)

1. A cylinder lock body threaded to engage by rotation a threaded opening in a lock case, a rotatable plug in said body, locking means carried by said body to engage said case to prevent the rotation of said cylinder lock therein, said locking means being operable by a special key



insertable in said plug, said cylinder lock being operable by a different key insertable in said plug and without operating said locking means.

1,924,070
OPHTHALMIC PAD AND METHOD OF MANUFACTURING SAME
Henry J. Langknecht, Rochester, N. Y., assignor to Sharon Optical Company, Inc., Geneva, N. Y., a Corporation of New York
Application April 6, 1931. Serial No. 528,133
9 Claims. (Cl. 88—43)



1. An ophthalmic pad comprising a main body portion having a recess in one face, the bottom of said recess being greater in area than the upper end thereof, a member seated on the bottom of the recess, said member being greater in area than the area of the upper end of the recess, a non-metallic covering overlying the outer face of said member, and means on the member for attaching the pad to an eye-glass frame.

1,924,071
APPARATUS FOR DETERMINING THE DEVIATION OF WELL HOLES AND CASINGS
Jerome D. Laudermilk, Claremont, Calif., assignor of one-half to Mrs. S. Golson Harrell, Los Angeles, Calif.
Application October 28, 1929. Serial No. 402,914
4 Claims. (Cl. 234—5.3)



1. An apparatus for testing deviation of a well hole which comprises, a body member, an instrument carriage mounted by said body member to freely swivel about the axis of the body, a pendulum carried by said instrument carriage and adapted to swing in accordance with the angle of deviation from the perpendicular, means for transmitting to the surface of the well the position of said pendulum, said means including a plurality of resistances and a means in the pendulum for cutting out part of the resistance in accordance with the position of said pendulum.

1,924,072
ADJUSTABLE SHAFT MOUNTING AND METHOD OF ASSEMBLY
Joseph P. Lavigne, Detroit, Mich., assignor, by mesne assignments, to O. & S. Bearing Co., Detroit, Mich., a Corporation of Michigan
Application April 19, 1928. Serial No. 271,151
7 Claims. (Cl. 308—72)



1. A mounting for the rotatable shafts, comprising a single supporting plate stamped to provide integral bearing supporting members and a spherical self-lubricating bearing clamped into aligning position by said members.

1,924,073
STABLE AMMONIUM SALT OF PRIMULA SAPONINE
Helmut Legerlotz, Berlin-Friedenau, Germany, assignor to P. Beiersdorf & Co. Inc., New York, N. Y.
No Drawing. Application November 17, 1932, Serial No. 643,125, and in Germany January 19, 1928
6 Claims. (Cl. 260—25)

1. An ammonium salt of primula saponine being a white substance soluble in water and melting at 212 to 213° C.

1,924,074
SUPPORT FOR CURTAINS AND OTHER LIGHT ARTICLES
Edmund Henry James O'Halloran, Bexley, near Sydney, New South Wales, Australia
Application April 7, 1930, Serial No. 442,397, and in Australia April 29, 1929
1 Claim. (Cl. 248—19)

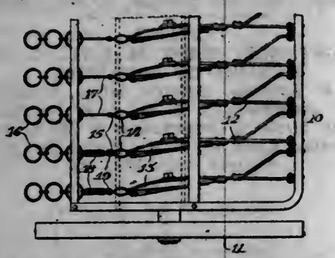


Improved bracket consisting of a vertical back member comprising a forwardly open channel member, having a plurality of longitudinally spaced pin holes therein and having at opposite ends a rearwardly disposed hook and a rearward camber, and a vertical member slidable in said channel and having a pin hole therethrough adapted to register with any one of the holes in said back member, and carrying a forwardly disposed and strutted supporting member, and a pin adapted to be placed in said registering holes to lock said members together.

1,924,075
COVERING DEVICE FOR PLANTERS
William Olson, Hines, Minn., assignor to International Harvester Company, a Corporation of New Jersey
Application October 5, 1932. Serial No. 636,277
4 Claims. (Cl. 111—85)

1. In a wheel supported grain drill the combination with furrow opening units located ad-

jacent the supporting wheels thereof, of a loosely dragging furrow covering drag chain, and coupling means between said unit and drag chain

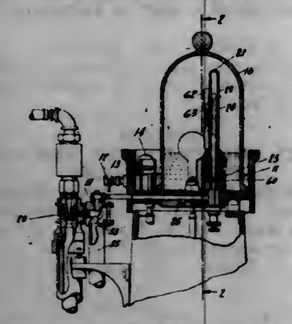


comprising a longitudinally yieldable spring having a freely movable connection with the unit.

1,924,076
FLOW METER

Charles F. Wallace, Westfield, N. J., assignor to Wallace & Tiernan Company, Inc., Belleville, N. J., a Corporation of New York

Original Application November 30, 1927, Serial No. 236,851. Divided and this application June 3, 1930. Serial No. 459,030
5 Claims. (Cl. 73—167)



1. A flow meter for measuring the rate of flow of gas, comprising a water-column tube, a sealed tube attached to the water-column tube and containing a scale for reading the height of the water column within the water column tube, and means for attaching the sealed tube to the water column tube formed to permit the sealed tube to be adjusted longitudinally relatively to the water-column tube.

1,924,077
BOILER

Charles W. Brabbée, Bronxville, N. Y., assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey

Application February 2, 1931. Serial No. 512,924
7 Claims. (Cl. 122—225)

1. A boiler comprising an ashpit, a fuel receptacle and combustion chamber, a smoke outlet, flues extending from said fuel receptacle and combustion chamber and each including a descending and an ascending portion, a plurality of parallel transverse collecting flues disposed in substantially the same horizontal plane; one of said flues extending across and communicating with the intakes of the descending portions of said flues, and the other of said collecting flues extending across and communicating with the outlets of the ascending portions of said flues, and means for placing said collecting flues in

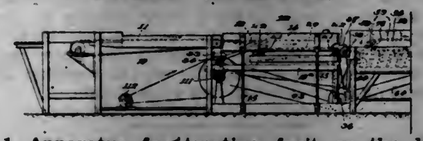


communication with said smoke outlet, substantially as specified.

1,924,078
APPARATUS FOR HANDLING FRESH FRUITS

Ernest M. Brogden, Pomona, Calif., assignor to Brogdex Company, Los Angeles, Calif., a Corporation of Florida

Application May 12, 1928. Serial No. 277,211
6 Claims. (Cl. 146—202)

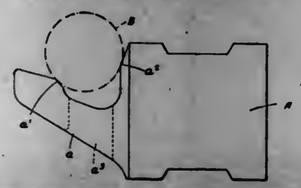


1. Apparatus for treating fruit or the like comprising, in combination, revoluble rubbing elements providing a fruit runway, an endless belt mounted above said runway, said belt being provided with a series of spaced pusher members rigidly secured thereto, said pusher members projecting into and movable through said runway, and feeding mechanism including a rotary stop-feed device for delivering one fruit between every two pusher members in said runway.

1,924,079
MEANS FOR SUPPORTING RESISTOR COILS IN ELECTRIC FURNACES

Donald Fraser Campbell, London, England, assignor to Ajax Electric Company, Inc., Philadelphia, Pa.

Application April 29, 1931, Serial No. 533,777, and in Great Britain May 19, 1930
9 Claims. (Cl. 13—25)

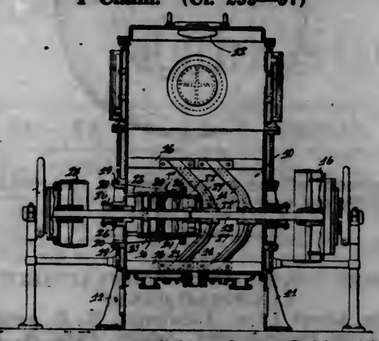


1. In a wall construction for electric heating furnaces, of the resistor type, a plurality of brick having supporting brackets horizontally in line with each other to form supports and apertured within the brackets, in combination with resistor spires extending transversely with respect to the brick lying over the apertures and having engagement with the brick above the apertures on opposite sides of the apertures.

1,924,080
MIXER

Carl F. Gram, Johnson City, Tenn., assignor to American Glanstoff Corporation, New York, N. Y., a Corporation of Delaware

Application October 25, 1932. Serial No. 639,474
1 Claim. (Cl. 259—97)

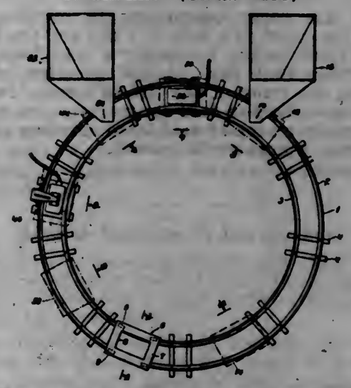


In a mixer, a container for a fluid material, a horizontally disposed chamber positioned in said container and provided with entrance and exit openings, a shaft extending coaxially of said chamber, a plurality of bladed impellers secured thereto for maintaining a recurrent flow of material through said chamber, means to maintain said impellers in spaced relation, plates positioned between said impellers and provided with openings, means to maintain said plates in spaced relation, a plate positioned at the exit end of said chamber provided with alternate grinding and perforated sectors, an impeller located adjacent said plate and provided with blades coacting with the grinding sectors and the inner wall of said chamber to shear the material flowing through said chamber.

1,924,081
METHOD AND APPARATUS FOR MAKING MOLDS

John Luton, Cleveland Heights, Ohio, assignor, by mesne assignments, to The Consolidated Iron-Steel Manufacturing Company of 1932, Cleveland, Ohio

Application December 12, 1930
Serial No. 501,844
47 Claims. (Cl. 22—193)

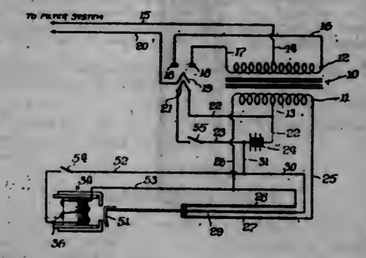


1. The method of making sand molds with a pattern and a flask which includes repeatedly circulating the flask and pattern in a continuous closed path successively to a plurality of stations serially disposed in the path and performing thereon different successive operations at the different stations to form a complete mold, to separate the pattern and flask from the mold to form another mold therewith and so on continuously.

1,924,082
MOTOR ACTUATED CIRCUIT CONTROLLING MEANS

Edward L. Barrett, Chicago, Ill., assignor to Utah Radio Products Co., Chicago, Ill., a Corporation of Illinois

Application January 3, 1933. Serial No. 649,787
11 Claims. (Cl. 172—126)

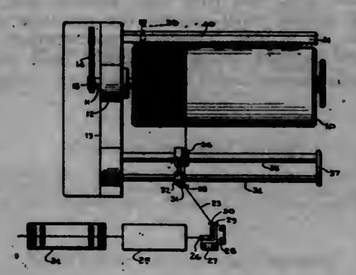


10. A circuit controlling device comprising in combination an electromagnet having a winding and a pole piece presenting an active pole face, an armature supported for movement along but never in contact with said face, said armature having an idle position eccentric with respect to the center of magnetic force, a normally open contact device arranged to be closed in the attracted movement of said armature toward the center of magnetic force, and an energizing circuit for said winding including a shunt circuit closed to deenergize said electromagnet when said contact device is closed.

1,924,083
METHOD OF MANUFACTURING BELTS

Raymond S. Carter and Harold G. Dick, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio

Original application May 22, 1930, Serial No. 454,596. Divided and this application June 6, 1931. Serial No. 542,539
5 Claims. (Cl. 154—4)



2. The method of manufacturing endless belts which comprises building an annular vulcaniz-

able core, applying a woven fabric cover to the core, turning the core inside out, and finally vulcanizing the assembly.

1,924,084

COVER FOR SPARE TIRES

George Albert Lyon, Allenhurst, N. J., assignor to Lyon Incorporated, Asbury Park, N. J., a Corporation of Delaware

Application May 21, 1928. Serial No. 279,292

19 Claims. (Cl. 150—54)



1. A unitary metallic automobile spare tire cover formed to cover the exposed outer side wall and tread portions of the tire when mounted on an automobile and having an inturned resilient marginal edge extending about substantially more than 180° of the tire for engaging over the rear side of the tread and contractible to retain the cover against lateral displacement when it is on the tire.

1,924,085

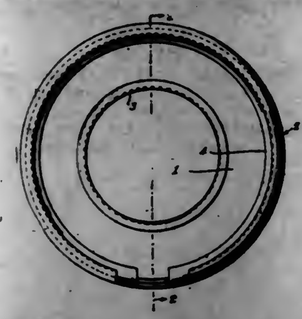
COVER FOR SPARE TIRES OF AUTOMOBILES

George Albert Lyon, Allenhurst, N. J., assignor to Lyon Incorporated, Asbury Park, N. J., a Corporation of Delaware

Application April 9, 1930. Serial No. 442,750

14 Claims. (Cl. 150—54)

8. In a multi-part tire cover, ar arcuate section for disposition over a side of the tire and including a tread covering portion extending beyond the median plane of the tire and an arcuate retaining ring formed to telescope said portion to the rear of the median plane of the tire for retaining said portion in covering engagement with the tire, said section and ring being provided with means for drawing them together in proper telescopic cooperation said ring and section being resiliently held in cooperation with each other and being held against lateral displacement from the tire solely by the



engagement of the rear portion of the retaining ring with the rear of the tire.

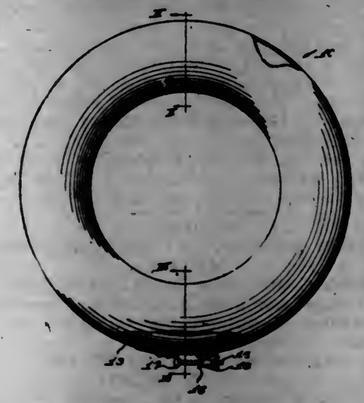
1,924,086

TIRE COVER WITH CONTRACTIBLE CLAMPING BANDS

George Albert Lyon, Allenhurst, N. J., assignor to Lyon Incorporated, Asbury Park, N. J., a Corporation of Delaware

Original application October 27, 1928, Serial No. 315,455. Divided and this application April 1, 1931. Serial No. 526,382

4 Claims. (Cl. 150—54)



1. A tire cover comprising in combination means for covering a side of a tire and the tread thereof and means including a split band for contracting that part of said covering means covering the tread of the tire to secure the tire cover upon the tire said contracting means being disposed on top of said tread covering means and being concentric therewith.

CARNEGIE LIBRARY OF ATLANTA

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 433—No. 5 TUESDAY, AUGUST 29, 1933 Price—$16 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $6.00 per annum, including annual index, $8.25; single numbers, 25 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
ISSUE OF AUGUST 29, 1933	1079
ADJUDICATED PATENTS	1079
ADVERSE DECISIONS IN INTERFERENCE	1079
INTERFERENCE NOTICE	1079
ACCESS TO PENDING APPLICATIONS	1079
AMENDMENTS TO AMENDMENTS	1079
BRIEFS IN APPEALED CASES	1079
RESERVATION CLAUSES NOT PERMITTED	1079
APPLICATIONS UNDER EXAMINATION	1080
DECISIONS OF THE U. S. COURTS—	
In re Feller	1081
Sutter Packing Company v. Piggly Wiggly Corporation	1083
Hennig v. Evans	1084
PATENT SUITS	1086
DISCLAIMERS	1087
TRADE-MARKS PUBLISHED (143 APPLICATIONS)	1089
TRADE-MARK REGISTRATIONS GRANTED	1109
TRADE-MARK REGISTRATIONS RENEWED	1111
LABELS	1113
PRINTS	1114
REISSUES	1115
DESIGNS	1116
PATENTS GRANTED	1127

August 29, 1933

Trade-Marks	167—No.	306,850 to No.	308,016, inclusive.
T. M. Renewals	37		
Labels	26—No.	42,807 to No.	42,834, inclusive.
Prints	4—No.	14,309 to No.	14,312, inclusive.
Reissues	5—No.	18,926 to No.	18,930, inclusive.
Designs	51—No.	90,562 to No.	90,612, inclusive.
Patents	992—No.	1,924,087 to No.	1,925,078, inclusive.
Total	1,294		

Adjudicated Patents

(C. C. A. Ga.) Young patent, No. 1,750,561, for knitted fabric, claim 3 *Held* invalid. *Westcott Hosiery Mills* v. *Rich's Inc.*, 65 F.(2d) 453.

(C. C. A. Mich.) Dick and Wolters reissue patent, No. 15,529, for heat-resisting cabinet and method of making the same, claims 3, 4, 5, 7, 8, 18, 19, and 22 *Held* not infringed. *Remington-Rand, Inc.*, v. *Shaw-Walker Co.*, 65 F.(2d) 618.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,795,295, Rudolf Dahms, Telephone system, decided August 3, 1933, claims 1, 2, 3, 5, 6, 7, 8, 9, and 10.

Pat. 1,799,626, P. C. Keith, jr., Heat exchanger, decided August 3, 1933, claims 1, 2, 3, 4, 6, and 7.

Pat. 1,863,350, H. E. Norviel and Vance Ecoff, Switch, decided July 18, 1933, claim 4.

Interference Notice

U. S. PATENT OFFICE, *Washington, Aug. 4, 1933.*

Beaumont Fruit Company, Inc., its assigns or legal representatives, take notice:

An interference having been declared by this office between the application of the Mineral Water Corporation, 1615 South Los Angeles St., Los Angeles, Calif., for registration of a trade-mark and trade-mark registered August 13, 1929, No. 259,871, to the Beaumont Fruit Company, Inc., Beaumont, Calif., and a notice of such declaration sent by registered mail to said Beaumont Fruit Company, Inc., at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Beaumont Fruit Company, Inc., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Access to Pending Applications

No person except the applicant, the assignee whose assignment is of record, or the attorney of record, will be permitted to have access to the file of any application, except as provided for under the interference rules, unless written authority from the applicant, assignee, or attorney, identifying the application to be inspected, is filed in the case to become a part of the record thereof, or upon the written order of the Commissioner, which will also become a part of the record of the case.

Amendments to Amendments

RULE 74. When an amendatory clause is amended, it must be wholly rewritten, so that no interlineation or erasure shall appear in the clause, as finally amended, when the application is passed to issue. If the number or nature of the amendment shall render it otherwise difficult to consider the case or to arrange the papers for printing or copying, the Examiner or Commissioner may require the entire specification to be rewritten.

Briefs in Appealed Cases

All briefs filed in this Office should have conspicuously printed thereon a statement designating the particular tribunal of the Patent Office to which the brief is addressed.

Reservation Clauses Not Permitted

RULE 44. A reservation for a future application of subject-matter disclosed but not claimed in a pending application will not be permitted in the pending application.

Condition of Applications Under Examination at Close of Business August 12, 1933

(Total number of applications awaiting action, excluding Trade-Mark Division, 49,143; Trade-Mark Division, 755. Oldest new case, Apr. 1, 1933; oldest amended, Apr. 1, 1933.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. LOEFFLER, F. A., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Apr. 13	Apr. 12	637
6708	2. HERRMANN, D. (Act.), Fishing and Trapping; Dairy; Animal Husbandry; Presses, Tobacco; Velocipedes; Butchering.	Apr. 15	Apr. 17	848
4003	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	May 13	May 13	610
7063	4. DONNELLY, A. E. (Act.), Conveyers; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds.	Apr. 17	Apr. 17	560
3628	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Etc.	May 12	May 15	490
4808C	6. LEWERS, A. M., Carbon Chemistry	May 1	Apr. 22	1,070
5725	7. JARBOE, C. G., Optics; Photography	Apr. 24	Apr. 25	1,050
7514	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	June 9	June 15	479
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	May 17	May 17	565
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	May 17	May 17	511
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Mailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Apr. 13	Apr. 13	663
7701	12. HENRY, C. C., Machine Elements; Cylinders and Pistons; Mechanical Starters; Stop Mechanisms	May 1	May 1	620
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	May 10	May 10	607
5097	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes.	May 20	May 24	495
4807	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Apr. 28	Apr. 28	1,214
5612	16. SPENCER, C. J., Telegraphy; Telephony	May 12	May 12	556
5701	17. ARMSTRONG H. (Act.), Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Apr. 12	Apr. 12	979
4612	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices.	June 16	June 14	297
4006	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Apr. 14	Apr. 17	1,073
6613	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	June 26	June 26	238
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Apr. 12	Apr. 14	372
5724	22. RINGLE, D. (Act.), Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion; Boating, Implements.	Apr. 19	Apr. 19	999
7892	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Apr. 15	Apr. 13	557
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	May 11	May 20	537
5709	25. BLAKELY, C. F., Agitating; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Apr. 15	Apr. 18	1,072
5803	26. ADAMS, W. M., Electricity, Generation; Motive Power	May 24	May 23	486
5708	27. CLARK, W. N. (Act.), Brushing, Scrubbing, and Cleaning; Washing Apparatus	May 16	May 16	485
4628	28. BENSON, A. R., Internal-Combustion Engines	Apr. 13	Apr. 12	860
5082	29. SHKLARIN, J. B. (Act.), Woodworking; Tools; Compound Tools; Furniture; Metal Working	May 15	May 26	312
4074	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation, Illuminating Burners; Illumination; Thermostats and Humidostats.	May 12	May 12	600
4716	31. HOLMES, W. N., Gas, Heating and Illuminating; Mineral Oils	Apr. 14	Apr. 15	1,240
4086	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	May 22	May 24	472
6096	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roofs; Wooden Buildings.	Apr. 17	Apr. 13	1,162
6625	34. SAPERSTEIN, S. (Act.), Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders; Track Sanders; Fluid Pressure Brakes.	Apr. 12	Apr. 12	1,016
3600	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Filling and Closing Portable Receptacles.	Apr. 22	Apr. 24	755
7624	36. McFAYDEN, A. D. (Act.), Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Apr. 12	Apr. 12	1,275
3699	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	May 12	May 12	527
7510	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells; Hydraulic Cement and Lime; Roads and Pavements.	Apr. 1	Apr. 1	784
4574	39. WHITNEY, F. J. (Act.), Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution.	Apr. 28	May 1	825
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Apr. 28	Apr. 29	1,334
6082	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances; Spring Devices; Typewriting Machines.	Apr. 21	Apr. 26	568
5832	42. CUTTING, H. O., Electric Signaling	Apr. 12	Apr. 12	934
4886B	43. KLINGE, E. F., Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Apr. 24	Apr. 24	901
4087B	44. SHAFFER, C. H., Refrigeration; Dispensing Beverages	Apr. 13	Apr. 12	810
7007	45. HILL, H. D., Pulleys and Shafting; Lubrication; Bearings and Guides	June 13	June 17	318
4613	46. TAYLOR, M., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems	May 5	May 7	530
7600	47. BARKER, H., Clutches; Brakes; Motors	Apr. 25	Apr. 24	1,009
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Apr. 20	Apr. 19	679
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers	Apr. 13	Apr. 12	846
4701	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating Processes; Carbohydrates and Condensation Products.	Apr. 12	Apr. 13	1,000
5628	51. BACKUS, C. D., Radiant Energy	May 13	May 13	700
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Mains and Pipes.	May 15	June 7	530
6807	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	June 7	June 6	469
5674	54. WAITE, W. E., Electric Lamps; Vapor Electric Devices; Space Discharge Tubes; Light Sensitive Circuits.	Apr. 17	Apr. 17	845
6887	55. BOWEN, S. T.—Bread, Pastry, and Confection Making; Cutlery	May 12	May 13	330
	Designs	July 13	July 15	216
4725	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Apr. 21	Apr. 12	844
3625	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-Shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	May 12	May 20	424
5605	58. DOWELL, E. F., Abrading	May 26	May 27	344
4709	59. RICHARD, V. I., Chemistry; Fertilizers	May 9	May 9	604
5806	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants.	Apr. 14	Apr. 13	1,012
6734	61. PARKS, G. E., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus	Apr. 18	Apr. 14	580
7526	62. COCHRAN, W. W., Toys; Amusement Devices; Baggage; Package and Article Carriers; Bottles and Jars; Deposit and Collection Receptacles; Cloth, Leather, and Rubber Receptacles.	Apr. 25	Apr. 28	1,338
4688	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Preserving; Sugar, Starch, and Carbohydrates.	Apr. 15	Apr. 16	1,077
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel; Alcohol.	Apr. 27	Apr. 27	1,009
5624	65. McDERMOTT, F. P., Electricity, Conductors; Conduits and Housings; Repeaters; Relays; Wave Transmission.	Apr. 15	Apr. 15	1,060
2000B	Trade-Marks, Labels, and Prints: F. A. RICHMOND.—Trade-Marks	July 13	July 20	730
	Labels and Prints	Aug. 9	Aug. 7	16

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

In re Peiler

No. 3,839. Decided May 22, 1933

1. Patentability—Copending Applications.
Where two applications are copending and a patent is granted on the earlier application, claims may not be rejected in the later application merely because the subject matter is disclosed in the earlier application, but only where the subject matter claimed in the later application is both disclosed and claimed in the patent.

2. Same—Glass Feeding Mechanism.
Certain claims for a glass feeding mechanism *Held* patentable over the prior art.

3. Appeal—What May Be Considered.
Matters raised for the first time in the Court of Customs and Patent Appeals will not be considered.

Appeal from the Patent Office. Reversed.

Mr. Vernon M. Dorsey, Mr. S. F. Parham, and *Mr. L. G. Bates* for Peiler.

Mr. T. A. Hostetler for the Commissioner of Patents.

Graham, *P. J.:*

This is an appeal from a decision of the Board of Appeals of the United States Patent Office, affirming a decision of the Examiner, rejecting claims 19, 82, and 89 of appellant's application, which was filed March 28, 1917. The specification states that the application is a continuation of appellant's prior application, filed August 13, 1914, Serial No. 856,548.

Said claims 19, 82, and 89 read as follows:

19. The combination, with glass feeding mechanism for intermittently feeding molten glass from a container in successive suspended masses, of periodically acting shear mechanism for cutting off mold charges successively from the suspended masses in timed relation to the operations of the glass feeding mechanism, and means for putting the shear mechanism out of operation and out of cutting position independently of the glass feeding mechanism and restoring it to its said timed relation.

82. In apparatus for separating molten glass into mold charges, the combination with a container for the glass having a discharge outlet from which masses of molten glass may be suspended, of an implement projecting into the glass adjacent to the outlet and operable periodically to cause the discharge and suspension of successive masses of the glass from said outlet, a pair of shear blades movably mounted and guided to meet beneath the outlet in spaced relation thereto and operable alternately to meet and to be withdrawn from beneath the outlet for severing mold charges from suspended masses of the discharged glass, and means for operating the implement and the shear blades periodically in timed relation to cause the repeated discharge, suspension and severance in suspension of mold charges at predetermined times, said means being adapted to start and stop the operation of the shear blades at will during the continued periodic operation of the implement and to restore the said timed relation when the operation of the shear blades is started.

89. In combination, a glass feeding mechanism for intermittently feeding molten glass from a container in successive suspended masses, severing means operating periodically in timed relation to the operations of an associated glassware fabricating machine for severing mold charges from said suspended masses, and means operable at will during the continued operation of the feeding mechanism for stopping the operation of the severing means and for restoring the severing means to operation in its former timed relation to the glassware fabricating machine.

The alleged invention is sufficiently described in the claims, and it is the last element in each of said claims, in combination with the other elements of the claims, that is particularly involved here, viz., that element relating to the shear mechanism being put out of operation and being restored in timed relation to the operation of the glass feeding mechanism.

The references cited by the Examiner to the claims here in issue are: Hitchcock, 805,068, November 21, 1905; Mansfield, 854,511, May 21, 1907; Bowman, 1,186,576, January 4, 1916; Peiler, 1,277,254, August 27, 1918; Peiler, 1,401,921, December 27, 1921.

Said references are also cited in the decision of the Board.

Prior to the oral argument before us, and after briefs had been filed, counsel for appellant and the Solicitor for the Patent Office made certain motions, as follows:

Appellant moved to strike out certain portions of the brief for the Commissioner of Patents upon the ground that all discussion of the references other than the last above named Peiler and Hitchcock patents was improper because none of said other references were before this court for consideration, and that certain other matters discussed in the brief were irrelevant to the issues here, because they relate to questions and issues not presented to or considered by any of the Patent Office tribunals.

The Solicitor for the Patent Office moved to strike out the transcript of record upon the ground that it fails to comply with the statutory requirements, and moved to strike out appellant's brief upon the ground that it was filed after the time permitted by our rules for the filing of briefs had expired.

Upon hearing, all of said motions were tentatively denied in order that a full hearing might be had, and appellant's counsel was given leave to file a brief in reply to the Solicitor's brief, which has been done.

It was understood that we would formally rule upon said motions when we made final disposition of the case.

The motion of the Commissioner of Patents to strike out the transcript of record is denied. It appears to comply with the statutory requirements, and if the Commissioner was of the opinion that the record, as certified, was incomplete, he should have entered a seasonable motion for diminution of the record. *Dreyfus* v. *Lilienfeld,* 18 C. C. P. A. (Patents) 1526, 413 O. G. 857, 49 F.(2d) 1055.

We would further note that this motion to strike out the transcript of record was not made until after the brief for the Commissioner had been filed.

With respect to the motion to strike out appellant's brief because filed too late under our rules, said motion is denied. The filing of the brief was permitted upon a sufficient showing by appellant's counsel, and the motion papers disclose a written statement of the Solicitor for the Patent Office that he had no objection to the filing of the brief.

The motion of appellant to strike out specified portions of the brief for the Commissioner of Patents is denied. While there may be arguments contained in said brief which are upon immaterial issues, in the main said brief has been helpful to the court. Such matters as are therein discussed which we deemed immaterial have been disregarded, and the appellant has not been prejudiced thereby.

A considerable part of the briefs of counsel for both sides is devoted to a discussion of whether this court is restricted to a consideration of two references specifically referred to by the Board of Appeals in its decision, and as to the scope of the written reasons for appeal filed in this case. As we view the matter, however, the court is not called upon here to enter into a discussion of these points. Assuming, without so holding, that the Solicitor for the Patent Office is right and that every reference cited, and reason for rejection given, by the Board of Appeals is properly before us for consideration, we have, nevertheless, arrived at the conclusion that the Board of Appeals was in error in rejecting appellant's said claims, for the following reasons:

The Board of Appeals held that, except for the element relating to the shear throw-out mechanism, appellant's combination is disclosed and claimed in appellant's patent, No. 1,277,254, and is also disclosed in the Hitchcock reference.

Appellant admits that this is true, so far as his said prior patent is concerned, but contends that Hitchcock does not disclose a suspended charge feeder, which is an element in each of the claims under consideration. The Board held that Hitchcock does disclose such a feeder, and we agree with its conclusion upon this point. In view of our conclusion that Hitchcock neither discloses nor suggests a material element of appellant's combination, viz., the shear throw-out mechanism, we do not deem it necessary to elaborate upon our view that Hitchcock discloses a suspended charge feeder. Neither of the references Bowman and Mansfield discloses a suspended charge feeder.

Neither Hitchcock nor Bowman discloses or suggests the operation of the respective feeders there shown independent of the shear mechanism, nor is this feature disclosed or suggested in the written specification of Mansfield. The Examiner, however, held that the apparatus shown in his drawings could be so adjusted as to throw the shear mechanism out of operation; he therefore rejected claim 19 upon Mansfield, and also upon Hitchcock or Bowman in view of Mansfield.

Claim 82 was rejected by the Examiner as functional and also as unpatentable over appellant's patent, No. 1,277,254, and also as unpatentable over appellant's patent, No. 1,401,921.

Claim 89 was rejected by the Examiner as functional and as defining a device lacking in utility; also upon the ground that the drawings were incomplete under Rule 50 of the Rules of the Patent Office, and also that the claim was unpatentable over appellant's patent, No. 1,277,254. With respect to the last ground of rejection, the Examiner said:

> Claims 88, 89, and 90 were further rejected as unpatentable over Patent No. 1,277,254. There is no invention in adjusting the time of operation of the glassware fabricating machine with respect to the time of operation of the shears, nor in stopping or starting the operation of the severing means while the fabricating machine continues to operate without performing any useful function.

We find no merit in the contention that any of the claims here in issue are functional, or that the drawings of appellant's application, insofar as claim 89 is concerned, do not comply with Rule 50, *supra*.

With respect to the utility of the shear throw-out mechanism, the Board of Appeals expressly found that it did have utility, and, it having made this finding in favor of appellant, the question of utility is not before us.

But one question remains, viz., did it require the exercise of invention to add to the combinations claimed in appellant's prior patent, No. 1,277,254, and also disclosed in the reference Hitchcock, the element relating to shear throw-out mechanism, as set forth in the claims herein involved. After a careful examination of the references, we are of the opinion that the only suggestion of operation of glass feeding mechanism independently of the shearing mechanism is found in appellant's said prior patents. Both of these patents do clearly suggest that the glass feeding mechanism may be operated with or without the shearing mechanism, and, with such disclosure, we agree with both of the Patent Office tribunals that it would not necessarily require the exercise of the inventive faculty to apply some means to bring about the operating of the feeding mechanism independently of the shear mechanism, and to restore the operation of the shear mechanism in timed relation to the operation of the feeding mechanism. We agree with the Board that this might be accomplished by either of the means suggested by it without the exercise of invention. The difficulty in sustaining the contention of the Board as to lack of invention, however, lies in the fact that apparently the Board relied upon the disclosure of appellant's said prior patents to establish that it was known that a useful result would be secured if the glass feeding mechanism could be operated independently of the shear mechanism. It is true that in appellant's patent, No. 1,401,921, it is stated that—

> It may be desirable, in some instances, to provide severing means to cut the neck or thread of glass connecting the supply in the furnace with the segregated mass which has passed over the lip;

and in appellant's patent, No. 1,277,254, it is stated that—

> For some purposes, the weight of the suspended glass may be relied upon to sever its suspending thread. But where uniformity, and especially rapidity of action is required, it is preferable to provide other means, shown herein as shear blades, for severing the suspending thread at the required periods.

[1] Were we at liberty to regard the said last two cited patents as prior art, we would be inclined to agree with the Board of Appeals that it would not require invention to supply a throw-out mechanism, included in the claims here in issue. But said patents are not in this case prior art for the reason that appellant's present application was copending at the time said patents were issued. *In re Peiler*, 18 C. C. P. A. (Patents) 1102, 409 O. G. 841, 48 F.(2d) 405; *Traitel Marble Co.* v. *U. T. Hungerford Grass & Copper Co.*, 22 F. (2d) 259. However, said patents may be resorted to for the purpose of ascertaining whether or not the invention here involved was there disclosed and *claimed*. If the element here in issue, viz., the shear throw-out mechanism, in combination with the other elements named in the claims, is not patentably distinct from the claims of appellant's patent, No. 1,277,254, then the decision of the Board should be affirmed; but we may not resort to any disclosure found in either of appellant's prior patents, not claimed therein, to establish lack of invention in supplying the shear throw-out mechanism as claimed herein. We therefore cannot resort to either of said patents for a disclosure that the glass feeding mechanism there shown could be operated independently of the shear mechanism.

So far as the record shows, appellant was the first to discover that a useful result could be secured by providing a shear throw-out mechanism in a combination such as is described in the claims here in issue, and there is nothing in any of the claims of appellant's prior patents covering this feature.

Therefore, in determining whether the addition of the element of a shear throw-out mechanism to the other elements of the claims here in issue constituted invention, we may not rely upon either of appellant's prior patents beyond the matters disclosed and claimed therein.

[2] As heretofore noted, we find in none of the other references any suggestion of the operation of a glass feeding mechanism, such as is here involved, in combination with a shear mechanism whereby the feeding mechanism could be operated independently of the shear mechanism, and whereby, after such independent operation had taken place, the shear mechanism could be restored in timed relation to the feed mechanism. Appellant was the first to conceive that a useful result could be secured by adding a shear throw-out mechanism to the other elements of the combination here claimed, and he disclosed a means of accomplishing it, at the same time stating in his specification that this could be accomplished in various ways.

We do not think that this improvement in a glass feeding mechanism, such as is here claimed, would be obvious to one skilled in the art, but are of the opinion that it required the exercise of the inventive faculty

[3] The Solicitor for the Patent Office, in his brief, urges affirmation of the decision of the Board of Appeals, not only upon grounds raised and considered by the Patent Office tribunals, but also upon the following grounds, which are raised for the first time in this court:

1. That claim 82 does not read upon the disclosure of appellant's application.

2. That the claims in issue are too broad to be patentable.

3. That the element of the claims relating to suspended charge feeding is but a preamble of the claims and no part of the combination claimed.

It was urged that we take into consideration alleged inexcusable delay in prosecuting appellant's application, and that the presentation of the claims here in issue was an "exigent afterthought" of appellant.

As to the last point made, there is nothing in the record to support such allegations. As to all of the various points above suggested, these matters are raised for the first time in this court, were not considered by the Patent Office tribunals, and are not raised by the written reasons for appeal. They, therefore, will not be considered by us here. *In re Tucker and Reeves*, 19 C. C. P. A. (Patents) 810, 416 O. G. 286, 54 F.(2d) 815.

For the reasons stated, the decision of the Board of Appeals as to said claims 19, 82, and 89 is reversed.

Reversed.

LENROOT, *J.*, concurs in the conclusion.

BLAND, *J.*, dissenting and concurring.

I think the Board of Appeals was right in their rejection of the claims on the ground that there was nothing inventive in the claims over that which was shown in Hitchcock, and that it required no invention to disconnect the shears from the feeder. In this view of the case a consideration of the other references was unnecessary and appellant's specific reason of appeal was sufficient to warrant our consideration of this phase of the case and an affirmance of the decision below.

However, the majority think that Hitchcock does not show all that is inventive in the claims and therefore feel justified under the reasons of appeal found in the record to consider the other references. I find no irreconcilable conflict between the views entertained by the majority and our other decided cases, as to the reasons of appeal in this case, and, therefore, fully concur in the views expressed by the majority in this particular.

U. S. Court of Customs and Patent Appeals

SUTTER PACKING COMPANY *v.* PIGGLY WIGGLY CORPORATION

No. 3,136. Decided May 22, 1933

TRADE-MARKS—SIMILARLY—"SLICES O'GOLD" AND "SUNSET GOLD".

The mark "Slices O'Gold" *Held* confusingly similar to the mark "Sunset Gold" as used upon goods of the same descriptive properties.

APPEAL from the Patent Office. Affirmed.

Mr. Jas. M. Naylor and *Mr. Chas. R. Allen* for Sutter Packing Company.

Mr. E. W. Bradford for Piggly Wiggly Corporation.

GRAHAM, *P. J.*:

The petitioner, Sutter Packing Co., filed its application in the United States Patent Office on No-

vember 5, 1929, for registration of the trade-mark "Slices O'Gold," used by it in connection with the sale of canned fruits. It alleged that it had been using said mark continuously since July 19, 1928, on said goods.

The appellee, Piggly Wiggly Corporation, filed its opposition to said application, alleging, by its notice of opposition, that on March 6, 1923, it had obtained the registration of a trade-mark, "Sunset Gold," for butter; that since that time it had expanded its business to include various other food products, including canned fruits, canned vegetables, canned milk, and many other products; and that it believed it would be damaged by the registration of the appellant's mark "Slices O'Gold."

Several witnesses were called and examined by the opposer. This testimony shows the use of opposer's mark, "Sunset Gold," not only on butter, but on canned fruits and vegetables, long prior to the use by appellant of its mark "Slices O'Gold."

The Examiner of Interferences sustained the opposition, which decision was affirmed by the Commissioner, and from the latter decision the appellant has brought the case here. The Commissioner held that the marks were confusingly similar; that the goods were of the same descriptive properties; and that any doubts should be resolved against the newcomer, the appellant.

In this court, the appellant admits that the respective goods of the parties are of the same descriptive properties, but claims that there is no confusing similarity of marks. The contention is also made that the burden was upon the opposer to prove confusion, and that it has failed to do so. The appellant further shows that on January 15, 1929, it registered, as a mark for canned fruits, "Sutter Slices O'Gold," which it insists should have been taken into account by the Patent Office tribunals in determining whether the marks "Sunset Gold" and "Slices O'Gold" are confusingly similar.

We agree with the Commissioner of Patents that the marks, when applied to goods of the same descriptive properties, are confusingly similar and that the registration of appellant's mark should not be allowed. We cannot agree with the appellant that proof of actual confusion must be made in such cases, but confusion in such cases will be presumed. Such has been the force and effect of our decisions in similar cases, some of the more recent of which are: *Traub Mfg. Co.* v. *Harris & Co.*, 19 C. C. P. A. (Patents) 704, 414 O. G. 3, 53 F.(2d) 416; *The American Prod. Co.* v. *Leonard*, 19 C. C. P. A. Patents) 742, 415 O. G. 3, 53 F.(2d) 894; *Hellman* v. *Oakford & Fahnestock*, 19 C. C. P. A. (Patents) 816, 417 O. G. 848, 54 F.(2d) 423; *Miller Becker Co.* v. *King of Clubs*, 19 C. C. P. A. (Patents) 1024, 420 O. G. 3, 56 F.(2d) 883; *Derby Oil Co.* v. *White Star Refining Co.*, 20 C. C. P. A. (Patents)——, 429 O. G. 75, 62 F.(2d) 984.

If there were any doubt about this proposition, it ought to be resolved against the newcomer. We said, in *California Packing Corp.* v. *Tillman & Bendel*, 17 C. C. P. A. (Patents) 1048, 394 O. G. 789, 40 F.(2d) 108:

> • • • The doctrine of the subject of doubt emanates from and is prompted by the fact that the applicant has the whole world to select from and it is no hardship to require him to select a trade-mark which will eliminate the probability of confusion.

We are unable to see wherein the appellant's case is aided by his prior registration of "Sutter Slices O'Gold." Even conceding that this might be a material circumstance, the appellee's use of its mark "Sunset Gold" on goods of the same descriptive properties, antedated, also, the registration of appellant's latter named mark. It is quite apparent, however, to the court, that there is a considerable difference between the mark "Slices O'Gold" and "Sutter Slices O'Gold" and that there might well be a difference between said marks as to whether confusion in trade would result. That question, however, is not now before us, and the court expresses no opinion thereon, or as to the validity of the appellant's said registered mark "Sutter Slices O'Gold."

The decision of the Commissioner of Patents is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

HENNIG *v.* EVANS

No. 3,127. Decided May 1, 1933

INTERFERENCE—PRIORITY.

Issue of interference construed and evidence *Held* to show that H. conceived the invention in issue and reduced it to practice prior to E.'s filing date, and that, E. having taken no testimony, priority was properly awarded to H.

APPEAL from the Patent Office. Affirmed.

Messrs. Kwis, Hudson & Kent, Mr. B. M. Kent, and *Mr. Watts T. Estabrook* for Hennig.

Messrs. Pennie, Davis, Marvin & Edmonds and *Mr. Leslie B. Young* of counsel.

GARRETT, *J.:*

In this interference proceeding an appeal has been taken to this court from a decision of the Board of Appeals of the United States Patent Office reversing the decision of the Examiner of Interferences and awarding priority of invention to the party Evans.

The invention relates to a certain method of treating iron in foundry cupolas in the process of melting and refining same. Only one count is involved. It reads:

> The improvement in the operation of foundry cupolas which comprises melting iron therein for [by] the combustion of coke, supplying to the foundry charge sodium carbonate in amount sufficient to form and maintain a thinly fluid alkaline slag, and maintaining a substantial body of such slag in contact with molten metal in the hearth of the cupola during the cupola operation.

The count is claim 4 of a patent to Evans granted June 29, 1926, upon an application filed May 9, 1925, the claim being copied by Hennig into his application, Serial No. 725,693, filed July 12, 1924, for patent on "improvement in method of desulphurizing and purifying iron," which application was copending with that of Evans.

Hennig is the senior party and, having taken no proofs, must rely upon his filing date for conception and reduction to practice. Evans took testimony and presented certain documentary evidence in the effort to show conception and reduction to practice at least as early as October-November, 1923, and the issue before us is narrowed to the question of whether he did, in fact, reduce to practice at that time.

It is noted that the count makes no statement of any *ultimate* purpose or function of the process. The respective ultimate objects to be obtained are stated only in the specification of the respective applications.

Hennig gives the following:

> One of the objects of the invention is to provide a comparatively cheap, reliable and efficient method of desulphurising and purifying iron that will overcome the objectionable features of methods heretofore used and produce better castings.
>
> A further object of the invention is to provide an improved method of desulphurising in a cupola, that will involve the formation of a slag of high fluidity through which the molten pellets of iron will readily pass and thereby avoid objectionable oxidation and liability to re-sulphurization.
>
> A further object of the invention is to provide an improved method of desulphurising iron, in a cupola, that will largely avoid the rapid destruction of the cupola lining, that is inherent in methods heretofore used, and leave the cupola comparatively free from slag accumulations so that the work of preparing the cupola for the succeeding melt will be reduced to a minimum.

Evans states his objects as follows:

> The present invention provides an improved process in which objectionable bridgings is avoided, in which a thinly fluid slag is insured, in which the avoidance of increase in sulfur in the iron is made possible, and even reduction in the sulfur content of the iron charged, in which a hot, clean iron is readily obtainable, in which improved fluxing and melting conditions are maintained, and in which the cupola operation is otherwise benefited. The invention makes possible the use of high sulfur coke, higher in sulfur than now commonly considered available for foundry practice. It also makes possible the use of high sulfur pig iron, which is refined to a greater or less extent and lowered in its sulfur content by the remelting and refining process of the present invention.

It will be observed from the foregoing that Hennig emphasizes desulphurization as an ultimate object, while with Evans other objects appear to be also in view. Evans includes, however,

> • • • the avoidance of increase in sulfur • • • and even reduction in the sulfur content of the iron,

and at other points in his specification makes other references to desulphurizing which indicates that this is at least one ultimate result sought by him.

The count itself when analytically examined discloses three steps:

(*a*) Combustion of coke for the melting of iron.

(*b*) Supplying the foundry charge with a sufficient amount of sodium carbonate to form and maintain a thinly fluid alkaline slag.

(*c*) Maintaining a substantial body of such slag in contact with molten metal in the hearth of the cupola during the cupola operation.

In the decision of the Examiner of Interferences it is stated:

> Sulphur compounds seriously affect the physical properties of iron castings and the percent of sulphur tolerated therein is low. In ordinary foundry practice coke, a fluxing material, and scrap iron are successively and continuously charged into the top of the furnace. The heat supplied by the combustion of the coke causes the iron to melt and collect on the hearth. The sulphur content of the scrap iron is increased by reaction of the sulphur in the coke as the iron melts and descends through the cupola. The flux combines with the ash of the coke and impurities of the iron to make a slag which forms a layer over the molten iron on the hearth. The iron as it melts consequently descends through the molten slag layer. It is desirable to utilize a flux, for which sulphur has a greater affinity than it has for iron, so that the sulphur in both the coke and iron will react therewith and enter the slag instead of reacting with or remaining with the iron. The issue contemplates the use of sodium carbonate in the flux for such purpose.

It would seem that the Examiner of Interferences interpreted the count as though it contained a limitation to desulphurization, the feature most emphasized by Hennig, and, so interpreting it, found that Evans had failed to—

> establish any date of complete conception, disclosure or successful reduction to practice, prior to his filing date.

The Board of Appeals says:

> The Examiner makes a point of the inconclusiveness of the testimony as to desulphurization but as the count contains no limitation to a particular function, the fact that the test did not show as good results as Evans had hoped to produce, reduction to .12%, is not a sufficient basis on which to hold the test was not a reduction to practice of the count, particularly as the evidence clearly shows that other objects of the invention such as the production of a slag of high fluidity with consequent avoidance of "bridging" were accomplished.

The Board of Appeals said:

> The count must be given as broad a construction as is reasonable in determining the fact of interference. Obviously it should not be given a more limited construction in considering the proofs.

In behalf of Hennig it is here argued that—

> the real purpose of the invention is to desulphurise the iron

and that, if Evans' proofs

> do not establish that he followed the steps set forth in the count, in issue, and do not show desulphurization of the iron, then those tests do not constitute a successful reduction to practice.

It is then urged that the proofs do not so show.

It is contended by Hennig that what we have designated as the ultimate result of desulphurization is dependent, in the process at issue, upon the maintenance of a substantial body of thinly fluid alkaline slag (this thinly fluid alkaline slag being produced by the injection of a sufficient amount of sodium carbonate) in contact with the molten metal in the hearth of the cupola, and it is urged that Evans' proofs are not sufficient to show that he used, in his claimed reduction to practice in October-November, 1923, the correct quantity of sodium carbonate to produce and maintain the required substantial body of thinly fluid alkaline slag, with a desulphurizing result.

In other words, counsel for Hennig apparently reasons back from effect to cause. Contending that the proofs of Evans do not establish desulphurization, it is argued that we must conclude from this (at least in part from this) that Evans did not, at the time admitted to be here critical, conceive, disclose, and reduce to practice the steps required by the count.

Evans insists that—

> whether or not such a slag will desulphurise iron is a matter of complete indifference,

since the count makes no reference whatsoever to desulphurization, and that,

> if, in the melting of iron, soda ash is introduced into the cupola in the amounts specified by Evans and Hennig [then], the soda ash produces a slag which comes within the meaning of the count, and the formation of such a slag is a practice of the invention regardless of whether or not in any specific instance, the iron was desulphurized.

It may be stated, however, that Evans does not concede that there is a failure of proof as to his

accomplishing desulphurization. Upon the contrary, he insists that the proofs show that he did accomplish it.

It is our opinion that Evans' theory as to the construction of the count, which seems to have been the theory adopted by the Board of Appeals, is the correct one.

If the practice of the count should fail to produce desulphurization—one of the stated ultimate objects of the specification—the effect which this might have upon the validity of a patent therefor, if tested in a proper proceeding, might present an interesting question, but it is one which does not appear to us to have any proper bearing in this proceeding. The presumption, at least, is that the practice of the count will result in the functions claimed for it, and, if it be shown that Evans followed the steps indicated, we do not think it was incumbent upon him, in this proceeding, to go further and prove the result, or that it may properly be conclusively held from a mere failure specifically to show an effect not named in the count itself, that there was a failure in creating the specified cause or causes of, or for, the effect.

We do not mean to hold here that Evans' proofs are insufficient to show desulphurization, in fact. We incline to the contrary view. But whether sufficient or insufficient we hold that, under the particular facts of this case, it is immaterial.

As to the first step of the count—melting iron in a foundry by the combustion of coke—no question as to Evans having done it is made.

As to the second step—the use of sufficient sodium carbonate to form a thinly fluid alkaline slag—Hennig does not question Evans' use in October-November, 1923, of some sodium carbonate, nor, as we understand it, that a thinly fluid slag was produced, but states, in his brief, that—

> there is no testimony whatever by anyone that any analysis of the slag was made to determine whether or not it was of *relatively high alkalinity*. (Italics ours.)

It seems sufficient to say upon this point that we find nothing in the count which calls for "relatively high," or any other degree of, alkalinity.

We assume that some degree of alkalinity is inherently formed and maintained by the use of sodium carbonate in connection with other elements of the operation. That is what the count calls for, and all that it embraces as to this particular step.

Hennig's most serious attack (aside from the argument as to the ultimate result, already disposed of) is leveled at Evans' proofs relative to—

> maintaining a substantial body of such [thinly fluid alkaline] slag in contact with molten metal in the hearth of the cupola during the cupola operation.

In considering this we are at once confronted with the query, what is meant by substantial body? Hennig, in his specification, gives us no standard and the record contains nothing which throws any light upon that question. Judicial knowledge may be taken, we think, of the fact that, in the practice of reducing iron and iron ores by melting in foundry, cupolas, a fluid slag is produced which collects on the cupola hearths. In the absence of proofs to the contrary, we can see no valid reason for holding erroneous the conclusion of the Board of Appeals to the effect that "standard practice" is not shown to have been departed from by either party. Indeed, Hennig's specification indicates quite clearly that he did follow standard practice, whatever that may mean as it relates to a "substantial body," and we fail to find in Evans' proofs the slightest indication that he did otherwise at the critical period upon which his reduction to practice depends.

No necessity demands a lengthening of this opinion by inserting a review of the testimony, nor is there any occasion for comment upon the alleged inconsistency of one of Evans' witnesses. It is not material, even if the alleged discrepancy should be held to exist. Neither do we think that the statement of the Board as to the witness Kobler not being a chemist, although there is no specific testimony to that fact, constitutes reversible error.

The decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,105,924, Pridham & Jensen, Telephone; 1,266,988, same, Amplifying receiver; 1,448,279, 1,579,392, same, Electrodynamic receiver, D. C. Minn. (St. Paul), Doc. E 1562, *The Magnavox Co.* v. *Wright-De Coster, Inc.* Dismissed April 4, 1933.

1,125,476, G. Claude, System of illuminating by luminescent tubes, D. C., W. D. Wash., N. Div., Doc. 881, *Claude Neon Electrical Products, Inc., et al.* v. *Coolidge Mutual Savings Bank et al.* Dismissed as to A. S. Bond with prejudice June 26, 1933.

1,128,252, Inwood & Lavenberg, Method of making boxes, C. C. A., 6th Cir., Doc. 6226, *Wirebounds Patents Co., et al.* v. *Saranac Automatic Machine Corp.* Decree affirmed June 30, 1933.

1,191,414, G. W. Gerlach, Safety block signal; 1,303,192, same, Locomotive equipment for block signal system, C. C. A., 8th Cir. (St. Louis), Doc. 9597, *G. W. Gerlach* v. *Chicago, Rock Island & Pacific Ruy. Co.* Decree affirmed July 3, 1933.

1,212,840, F. J. Straub, Building block and method of making same, D. C., S. D. Ohio, W. Div., Doc. E 783, *Crozier-Straub, Inc., et al.* v. *The Cincinnati Celco Products Co.* Claims 1, 2 and 3 held infringed (notice July 3, 1933).

1,231,764, F. Lowenstein, Telephone relay; 1,618,017, same, Wireless telegraph apparatus; 1,403,475, H. D. Arnold, Vacuum tube circuit; 1,465,332, same, Vacuum tube amplifier; 1,573,374, P. A. Chamberlain, Radio condenser, filed June 23, 1933, D. C., S. D. Calif. (Los Angeles), Doc. E 11–C, *Radio Corp. of America et al.* v. *D. W. Rogers (Los Angeles Radio Mfg. Co.) et al.* Same, D. C., S. D. N. Y., Doc. E 76/56, *Radio Corp. of America, Inc., et al.* v. *Insuline Corp. of America.* Consent decree for plaintiff (notice July 18, 1933).

1,244,152, G. W. White, Combined harvester and threshing attachment, filed June 28, 1933, D. C., W. D. Mo. (Kansas City), Doc. 2321, *Rotary Harvester Corp.* v. Gleaner Harvester Corp.

1,256,491, W. E. Urschel, Process for snipping string beans; 1,256,492, 1,336,991, same, Apparatus for snipping string beans, C. C. A., 4th Cir., Doc. 3443, *Chisholm-Ryder Co., Inc.* v. *B. I. Buck.* Decree affirmed June 17, 1933.

1,256,492. (See 1,256,491.) 1,266,988. (See 1,105,924.)

1,303,192. (See 1,191,414.)

1,336,640, J. E. Leonard, Film magazine, D. C., S. D. Calif. (Los Angeles), Doc E Z–93–J, *Mitchell Camera Corp.* v. *Hollywood Camera Exchange et al.* Dismissed as to certain defendants May 20, 1933.

1,336,991. (See 1,256,491.)

1,346,840, A. E. Nicholls, Oil feeder; Re. 16,189 (of 1,423,677), same, Oil feeders for internal combustion engines, D. C., S. D. Calif. (Los Angeles), Doc. E S–70–M, *W. McNutt et al.* v. *Ford Motor Co.* Dismissed without prejudice June 29, 1933.

1,352,627. (See 1,643,588.) 1,403,475. (See 1,231,764.)

1,423,677. (See 1,346,840.) 1,448,279. (See 1,105,924.)

1,455,141, Lowell & Dunmore, Radio receiving apparatus, D. C. Del., Doc. E 664, *Dubilier Condenser Corp, et al.* v. *Radio Corp. of America.* Decree upon mandate of Circuit Court of Appeals, dismissing bill June 29, 1933.

1,460,716, B. F. Greer, Book form savings bank, D. C., N. D. Calif. (San Francisco), Doc. E 1625, *Bankers Utilities Co., Inc., et al.* v. *Pacific National Bank et al.* Claim 6 held valid and infringed, and claims 1, 2, 3, and 5 held invalid June 23, 1933.

1,465,332. (See 1,231,764.)

1,505,592, F. W. Epperson, Frozen confectionery, filed June 30, 1933, D. C., E. D. N. Y., Doc. E 7007, *National Popsicle Corp. et al.* v. *Acme Frozen Products Corp. et al.* Doc. E 7008, *National Popsicle Corp. et al.* v. *Sunshine Purity Ice Cream Corp. et al.* Doc. E 7009, *National Popsicle Corp. et al.* v. *Lipits Frozen Products, Inc., et al.* Doc. E 7010, *National Popsicle Corp. et al.* v. *Royal Ice Cream Corp. et al.* Doc. E 7011, *National Popsicle Corp. et al.* v. *Yukon Ice Cream Co., Inc., et al.*

1,573,374. (See 1,231,764.)

1,575,239, C. L. Walker, Method of counterbalancing engine main shafts, D. C., N. D. Calif. (San Francisco), Doc. E 1714–S, *C. L. Walker* v. *D. Lee, Inc.* Claims 1, 2, 3, and 4 held void, dismissed June 28, 1933.

1,579,392. (See 1,105,924.)

1,606,424, Irgens & Johnson, Oiling system for gas engines; 1,716,962, H. L. Johnson, Water propulsion device; 1,763,970, L. J. Johnson, Stream line construction; 1,824,735, same, Outboard motor; 1,824,740, Johnson & Johnson, Water propulsion device; Re. 18,120, L. J. Johnson, Water-cooling system for outboard motors; Re. 18,118, J. H. Pierce, Marine propulsion device, filed July 8, 1933, D. C., E. D. Mich. (Detroit), Doc. 6027, *Johnson Bros. Engineering Corp. et al.* v. *Cadillac Motor Co.*

1,606,735, Lines & Maguire, Flexible floor covering and process of making same, filed June 30, 1933, D. C. Del., Doc. E 1036, *Bird & Son, Inc.*, v. *Delaware Floor Products, Inc.*

1,618,017. (See 1,231,764.) 1,619,216. (See 1,643,588.)

1,635,117, F. W. Dunmore, Signal-receiving system, D. C. Del., Doc. E 663, *Dubilier Condenser Corp.* v. *Radio Corp. of America.* Decree upon mandate dismissing bill June 29, 1933.

1,643 588, 1,619,216, J. P. Ratigan, Beam adjuster; 1,646,558, same, Beam hanger; 1,352,627, same, Pumping apparatus, filed July 1, 1933, D. C. Kans., 2d Div., Doc. 766–N, *J. P. Ratigan* v. *The Bridgeport Machine Co.*

1,646,558. (See 1,643,588.)

1,706,099, Benbow & Green, Dump wagon; 1,752,056, Armington & Armington, Dump trailer, C. C. A., 6th Cir., Doc. 6342, *E. A. Devin et al.* v. *Western Wheeled Scraper Co.* Claims 9, 11, 14, 15, and 17 to 23 inclusive of 1,706,099, and 1,752,056 held invalid June 29, 1933.

1,706,471, Woodman & Smith, Removable head for metal containers, filed June 30, 1933, D. C., N. D. Ohio, E. Div., Doc. E 4703, *W. S. Woodman et al.* v. *The National Steel Barrel Co.*

1,716,962. (See 1,606,424.) 1,752,056. (See 1,706,099.)

1,763,970. (See 1,606,424.) 1,824,735. (See 1,606,424.)

1,824,740. (See 1,606,424.) 1,847,057. (See Re. 18,851.)

1,863,809, Hopkins & Palm, Bearing, filed June 29, 1933, D. C., E. D. Mich. (Detroit), Doc. 6022, *Cleveland Graphite Bronze Co.* v. *Federal-Mogul Corp.* Doc. 6023, *Cleveland Graphite Bronze Co.* v. *Bohn Aluminum & Brass Corp.* Doc. 6024, *Cleveland Graphite Bronze Co.* v. *Detroit Aluminum & Brass Corp.*

1,886,585, E. Prasak, Machine for extracting threads from woven fabrics, filed June 28, 1933, D. C., S. D. N. Y., Doc. E 76/154, *E. Prasak* v. *K. & P. Fancy Stitching Machine Co., Inc., et al.*

1,887,710, G. Davison, Fur scarf hanger, D. C., E. D. Mo. (St. Louis), Doc. 10406, *G. Davison* v. *Kline's, Inc.* Consent decree for plaintiff July 3, 1933.

1,915,259, H. W. Harman, Magnetic separator, filed July 1, 1933, D. C., E. D. Wis. (Milwaukee), Doc. 4116, *Magnetic Mfg. Co.* v. *Dings Magnetic Separator Co.*

Re. 16,189. (See 1,346,840.)

Re. 17,140. J. M. Jones, Metal wheel, filed July 1, 1933, D. C., S. D. Ohio, W. Div., Doc. E 861, *R. C. Kennedy et al.* v. *Ford Motor Co.*

Re. 18,118. (See 1,606,424.)

Re. 18,120. (See 1,606,424.)

Re. 18,851, (of 1,847,057), A. W. Mellowes, Mechanical refrigerating evaporator, filed July 5, 1933, D. C., E. D. Wis. (Milwaukee), Doc. 4117, *A. W. Mellowes et al.* v. *Frigidaire Corp. et al.*

Des. 89,725, S. Sizeler, Finger ring, filed June 26, 1933, D. C., E. D. La. (New Orleans), Doc. E 160, *S. Sizeler* v. *C. E. Adler & Sons, Inc.*

Disclaimers

1,670,365.—*Edward Knauss*, Florin, Calif., and *Herman G. Adler*, Brooklyn, N. Y. GOVERNOR FOR INTERNAL COMBUSTION ENGINES. Patent dated May 22, 1928. Disclaimer filed July 31, 1933, by the assignee, *Handy Governor Corporation.*

Hereby enters this disclaimer to claim 1 of said Letters Patent No. 1,670,365, which is in the following words, to wit:

A governor for internal combustion engines including an unbalanced governing valve, and vacuum responsive means for moving said governing valve toward its closed position.

1,717,600.—*Howard L. Bender*, Bloomfield, N. J. PHENOL RESIN COMPOSITION. Patent dated June 18, 1929. Disclaimer filed July 25, 1933, by the assignee, *Bakelite Corporation.*

Hereby enters this disclaimer to the compositions set forth in claims 3 and 5 except where the "resinous phenol-methylene" of claim 3 and the "phenolic methylene resin" of claim 5 are of the kind formed by reaction of a phenol in the presence of excess molecular proportions of methylene and a catalyst.

1,816,239.—*John J. N. Van Hamersveld*, Cleveland Heights, and *Edward P. Burrell*, Shaker Heights, Ohio. CHUCK CLOSING AND OPENING MECHANISM. Patent dated July 28, 1931. Disclaimer filed August 5, 1933, by the assignee, *The Warner & Swasey Company.*

Hereby enters this disclaimer to claims 1, 14, 15, 16, 17, 18, 23, and 24 of said Patent No. 1,816,239.

1,818,095.—*William R. Peterson*, Chicago, Ill. VALVE BAG FILLING MACHINE. Patent dated August 11, 1931. Disclaimer filed July 31, 1933, by the patentee, assignee, *St. Regis Paper Company*, assenting and confirming.

Hereby enters this disclaimer to the word "power" in claim 4 in the said Letters Patent.

1,835,395.—*Ernest R. Hentschel,* Washington, D. C. POWER SUPPLY APPARATUS. Patent dated December 8, 1931. Disclaimer filed August 2, 1933, by the assignee, *Wired Radio, Inc.*

Hereby enters a disclaimer to claims 6, 8, 9, 11, 12, 13, 14, and 15 of said patent, which are in the following words, to wit:

"6. In a signal receiving system, an electron tube amplifier, an alternating current power supply line, independent rectifier circuits connected with said power supply line, separate filter circuits connected with said independent rectifier circuits, a load circuit, connections between one of said filter circuits with said load circuit, independent connections between the other of said filter circuits and the power circuits of said electron tube amplifier, and means interconnecting said filter circuits for opposing the effects of energy fluctuations in one filter circuit with the effects of energy fluctuations in the other filter circuit for eliminating the effects of power noises in the circuits of said electron tube amplifier."

"8. In a signal receiving system, an electron tube amplifier, an alternating current power supply line, independent rectifier circuits connected with said power supply line, separate filter circuits connected with said independent rectifier circuits, a load circuit, connections between one of said filter circuits with said load circuit, independent connections between the other of said filter circuits and the power circuits of said electron tube amplifier, and coupling impedances connected between said filter circuits for opposing the effects of energy fluctuations in one filter circuit with the effects of energy fluctuations in the other filter circuit for substantially eliminating the effects of power noises in the circuits of said amplifier.

"9. In a signal receiving system, an electron tube amplifier, an alternating current power supply line, independent rectifier circuits connected with said power supply line, separate filter circuits connected with said independent rectifier circuits, a load circuit, connections between one of said filter circuits with said load circuit, independent connections between the other of said filter circuits and the power circuits of said electron tube amplifier, and circuits interconnecting said filter circuits for transferring energy fluctuations from one filter circuit to the other filter circuit displaced in phase substantially 180° for eliminating the effects of power noises in the circuits of said electron tube amplifier."

"11. In a single receiving system, an electron tube amplifier, an alternating current power supply line, independent rectifier circuits connected with said power supply line, separate filter circuits connected with said independent rectifier circuits, a load circuit, connections between one of said filter circuits with said load circuit, independent connections between the other of said filter circuits and the power circuits of said electron tube amplifier, and means interconnecting the output of one filter circuit with the output of the other filter circuit for substantially annulling the effects of energy fluctuations in said filter circuits and eliminating power noises in the circuits of said electron tube amplifier.

"12. In a signal receiving system, an electron tube amplifier, an alternating current power supply line, independent rectifier circuits connected with said power supply line, separate filter circuits connected with said independent rectifier circuits, a load circuit, connections between one of said filter circuits with said load circuit, independent connections between the other of said filter circuits and the power circuits of said electron tube amplifier, and means interconnecting the output circuits of said filter circuits and adapted to transfer alternating current components of energy between said filter circuits while preventing the passage of direct current for opposing the effects of alternating current fluctuations in one filter circuit with respect to alternating current fluctuations in the other filter circuit for substantially annulling the effects of power noises in the circuits of said electron tube amplifier.

"13. In a power supply system, an alternating current power supply line, independent rectifier circuits connected with said power supply line, filter circuits connected with each of said rectifier circuits, separate load circuits, and means interconnecting the output circuits of said filter circuits and adapted to transfer alternating current components of energy between said filter circuits while preventing the passage of direct current therebetween for opposing the effects of alternating current fluctuations in one filter circuit with respect to alternating current fluctuations in the other filter circuit, for substantially annulling the effects of power fluctuations in the load circuits.

"14. In a power supply system, an alternating current power supply line, independent rectifier circuits connected with said power supply line, filter circuits connected with each of said rectifier circuits, separate load circuits and a transformer coupling one of said filter circuits with the other for transferring alternating current components of energy in opposed phase relation between said filter circuits for annulling the effects of power fluctuations in said load circuits.

"15. In a power supply system, an alternating current power supply line, independent rectifier circuits connected with said power supply line, filter circuits connected with each of said rectifier circuits, separate load circuits, and an impedance comprising a pair of inductances coupled one to the other, one of said inductances being disposed in series in one of said filter circuits and the other of said inductances being connected in series in the other of said filter circuits said inductances being adapted to transfer alternating current components of energy in opposed relation between said filter circuits for annulling the effects of power fluctuations in said load circuits."

1,896,783.—*Thomas F. Moore,* Westerly, R. I. ELASTIC FABRIC. Patent dated February 7, 1933. Disclaimer filed August 4, 1933, by the assignee, *George C. Moore Company,* the patentee, said Moore, approving and ratifying.

Hereby enters this disclaimer to that part of the claim in said specification which is in the following words, to wit:

"4. In a corset, girdle, or the like supporting garment, elastic fabric having component elements of rubber permitting simultaneous stretching of the garment in two dimensions through elongation of the rubber elements, the contractive force of the elastic fabric in the garment being materially greater in one of such dimensions than in the other, under like conditions."

1,904,975.—*Walter F. Babcock,* Detroit, Mich. METAL CUTTING MACHINE AND CONTROL SYSTEM THEREFOR. Patent dated April 18, 1933. Disclaimer filed August 7, 1933, by the assignee, *The Foote-Burt Company.*

Hereby enters this disclaimer by disclaiming from claims 5, 6, 7, 8, and 15 any metal cutting machine, when such a machine does not have a "pump" or "pumping means" disposed within a secondary housing upon the carriage thereof

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 29, 1933

[VOL. 433. No. 5]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 338,992. R. NEUMANN & COMPANY, Hoboken, N. J. Filed June 19, 1933.

DYNOSAUR

For Leather.
Claims use since May 2, 1933.

CLASS 2

Receptacles

Ser. No. 339,830. THE MENASHA PRODUCTS COMPANY, Menasha, Wis. Filed July 17, 1933.

CIRCUS

For Receptacles Made of Pulp—Namely, Cartons.
Claims use since Apr. 15, 1933.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 339,599. CIA. COMMERCIAL "HERDEZ", S. A., Mexico, Mexico. Filed July 10, 1933.

PAL

For Shaving Creams or Shaving Soaps.
Claims use since January, 1933.

Ser. No. 339,808. B. F. BROWN & CO., INC., Boston, Mass. Filed July 17, 1933.

simplicity

For Cleaner and Polish for Shoes.
Claims use since Feb. 25, 1933.

Ser. No. 339,942. LANMAN & KEMP-BARCLAY & CO., INCORPORATED, New York, N. Y. Filed July 20, 1933. Under 10-year proviso.

BARCLAY&CO

For Toilet Soap.
Claims use since 1880.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 1,270. AGUSTIN REYES GARCIA, Habana, Cuba. Filed May 18, 1932. Under General Inter-American Convention for Trade-Marks and Commercial Protection. (Signed at Washington Feb. 29, 1929.)

NUIT DU SAMEDY

For All Kinds of Perfumery Articles Such as Toilet Waters, Lotions, Essences, Powders, Talcums, Lipsticks, Eye and Eyebrow Crayons, Tooth Pastes, Dentifrices, Cosmetics, Perfumed Oils, Hair Tonics, Cologne Water, and All Kinds of Perfumes.

Said Trade-Mark has been registered in Cuba, No. 50,085, dated Feb. 17, 1931, on an application filed Aug. 23, 1930.

Ser. No. 325,447. SAMUEL R. WEINBERG, doing business as Nugloss Products Company, Brooklyn, N. Y. Filed Mar. 23, 1932.



The words "Brooklyn, N. Y." are disclaimed apart from the mark shown.
For Liquid Nail Polish and Liquid Nail Polish Remover.
Claims use since Dec. 1, 1930.

Ser. No. 328,137. BLANCHE M. NORTHRUP, doing business as Ama-Gon Laboratories, Los Angeles, Calif. Filed June 20, 1932.



For Preparation for Relief from Paroxysms of Asthma, and for the Relief of Minor Bronchial Irritations; and an Inhalant.
Claims use since Feb. 19, 1932.

Ser. No. 335,100. MRS. GERTRUDE SCHULTE-TENDERICH, Denver, Colo. Filed Feb. 18, 1933.



The drawing is fanciful.
For Flesh Reducing Compound.
Claims use since May 10, 1932.

Ser. No. 335,181. A/S NORSK MEDICINAL UNION, Bergen, Norway. Filed Feb. 23, 1933.



The words "Lofodol" and "Bergen" are hereby disclaimed apart from the mark as shown on the drawing.
For Cod Liver Oil.
Claims use since June, 1931.

Ser. No. 335,420. JACKEL ET CIE LIMITED (OF PARIS), Glasgow, Scotland. Filed Mar. 2, 1933.



The portrait appearing on the drawing is a portrait of Mr. Francis Charles Jackel, deceased. No claim is made to the words "Jackel's" and "Oilafix".
For Toilet Preparations for the Hair.
Claims use since 1930.

Ser. No. 337,578. AXEL ENGH, doing business as American Laboratories, Atlanta, Ga. Filed May 5, 1933.

CUMBAC



For General Tonic.
Claims use since Feb. 27, 1932.

CARNEGIE LIBRARY OF ATLA

Ser. No. 338,674. WABCO ENGINEERING CORPORATION, New York, N. Y. Filed June 8, 1933.

MONARCH

For Boiler Protective and Rust Eradicator.
Claims use since May 27, 1933.

Ser. No. 338,849. WILLIAM JAMES ROGERS, doing business as British Medical Laboratories, Sydney, New South Wales, Australia. Filed June 14, 1933.

MENTHOIDS

For Medicinal Preparation for the Treatment of Intestinal Stasis, Kidney and Bladder Disfunction, and Toxemia Arising Therefrom.
Claims use since June 1, 1928.

Ser. No. 338,911. SOUTHWESTERN DRUG CORPORATION, Waco, Tex. Filed June 16, 1933.



The drawing is lined to represent the color red.
For Rubbing Alcohol Compound.
Claims use since 1912.

Ser. No. 339,030. CYRIL B. GUROS, doing business as The Felco Co., New York, N. Y. Filed June 20, 1933.

LIM-O-NADE
LAX

For Laxative Compound.
Claims use since June 12, 1933.

Ser. No. 339,039. MOSBY'S A TO Z COMPANY, Cincinnati, Ohio. Filed June 20, 1933.

MOSBY'S



ANTISEPTIC

No claim is made to the exclusive use of the word "Antiseptic" aside from the mark shown.
For Carbonated Antiseptic.
Claims use since Oct. 27, 1932.

Ser. No. 339,060. GUY B. CADY, doing business as A-Dal Laboratories, Los Angeles, Calif. Filed June 21, 1933.

A-Däl

For Anti-Acid, Anti-Toxic, Tonic-Eliminant to be Used as an Aid for Digestion, for Promoting Assimilation, and Cleansing the Intestines.
Claims use since Apr. 15, 1933.

Ser. No. 339,141. ASSOCIATED PHARMACISTS, INC., Baltimore, Md. Filed June 23, 1933.

Q-TABS

For Medicinal Preparation Acting as a Stimulant Diuretic to the Kidneys and for Bladder Irritation.
Claims use since June 13, 1933.

Ser. No. 339,142. ASSOCIATED PHARMACISTS, INC., Baltimore, Md. Filed June 23, 1933.

RUSOTABS

For Internal Preparation for the Prevention and Treatment of Poison Ivy, Poison Oak, Etc.
Claims use since June 13, 1933.

Ser. No. 339,185. GENERAL CHEMICAL COMPANY, New York, N. Y. Filed June 24, 1933.

OIL EMULSION

No claim is made to the exclusive use of the words "Oil" and "Emulsion" apart from the mark shown in the drawing.
For Insecticides and Fungicides.
Claims use since Apr. 1, 1933.

Ser. No. 339,189. HOFFMANN-LA ROCHE, INC., Nutley, N. J. Filed June 24, 1933.

SYNTROPAN

For Medicinal Preparation for Use in the Relief and Treatment of Spasmodic Conditions.
Claims use since May 17, 1933.

Ser. No. 339,214. VITAMINERAL PRODUCTS COMPANY, Peoria, Ill. Filed June 24, 1933.

ASSOCIATED FARM SUPPLY

For Compound Containing Various Minerals to be Mixed with the Feeding Rations of Animals for Corrective Purposes.
Claims use since Nov. 1, 1932.

Ser. No. 339,223. MARY DIETRICH, doing business as Laural Drug Company, New Rochelle, N. Y. Filed June 26, 1933.

QUITOC

For Liquid Sedative.
Claims use since Mar. 1, 1933.

Ser. No. 339,225. GARDNER LABORATORIES, INC., Chicago, Ill. Filed June 26, 1933.

URISEPTIN

For Urinary Antiseptic.
Claims use since 1903.

Ser. No. 339,237. NUTRITIONS, INC., Beverly Hills, Calif. Filed June 26, 1933.

NUTRI-AD

For Concentrates of Vegetables in the Form of Neutritional Adjuvants for Use as Dieto-Therapeutic Agents in Powder, Tablet, Paste, or Liquid Form, Including Asparagus, Beet Leaves, Cauliflower, Celery, Endive, Horseradish, Kale, Lettuce, Mint, Okra, Orange, Parsley, Stalk of Rhubarb, Spinach, Turnip Leaves, and Watercress, Together with Certain Combinations and Mixtures Thereof by Formulæ.
Claims use since Apr. 8, 1933.

Ser. No. 339,796. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed July 15, 1933.

KILLEX

For Insecticides and Fungicides.
Claims use since June 28, 1933.

Ser. No. 339,933. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed July 20, 1933.

CYANEGG

For Cyanid Salts, Adapted for Metallurgical and Other Uses.
Claims use since Nov. 14, 1913.

Ser. No. 339,974. LEHN & FINK, INC., Bloomfield, N. J. Filed July 21, 1933.

AMPHYL

For Antiseptic and Disinfectant Preparation Recommended for Germicidal and Sterilizing Uses; as a Personal Deodorant and After-Shaving Lotion; for Use in Douching, Irrigations, and Personal Hygiene Generally; in Cases of Skin Irritations, Rashes, Itches, Burns, Sunburns, Sore Throat, Ringworm of the Foot, Stings and Insect Bites, and as an Antiseptic Agent in Cutting Oils and Greases in Engineering and Industrial Plants Generally.
Claims use since June 21, 1933.

Ser. No. 340,033. THE CORRECTIVE PRODUCTS COMPANY, Los Angeles, Calif. Filed July 24, 1933.

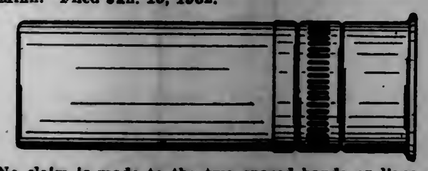
FLORATONE

For Lactic Acid Preparation for Relief of Colitis and Constipation.
Claims use since Apr. 5, 1933.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 323,040. FEDERAL CARTRIDGE CORP, Minneapolis, Minn. Filed Jan. 15, 1932.

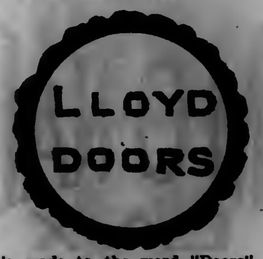


No claim is made to the two spaced bands or lines extending circumferentially of the shell apart from the mark as shown.
For Shotgun Shells.
Claims use since Feb. 1, 1931.

CLASS 12

Construction Materials

Ser. No. 339,337. LEVIN DOOR & PANEL CO. INC., New York, N. Y. Filed June 28, 1933.



No claim is made to the word "Doors".
For Fire Resistant Wood Doors.
Claims use since Apr. 12, 1933.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 334,119. REPUBLIC STEEL CORPORATION, Youngstown, Ohio. Filed Jan. 19, 1933.



The exclusive use of the word "Steel" applicant hereby disclaims apart from the mark as shown in the drawing.
For Bolts, Nuts, Threaded Rods, Staybolts, Wire Rope Clips, Tie Rods, Turn Buckles, Metal Belt Fasteners, Wire Nails, Tacks, Spikes, Alloy Pipe, Iron Pipe, Electric Welded Pipe, Lap Weld Pipe, Butt Weld Pipe, Line Pipe, Oil Well Casing; Electric Weld Tubing in the Form of Round, Square, Rectangular, and Irregular Cross Sectional shapes for the construction of Architectural and Mechanical Products; and Fence Posts, Metal Culverts, Corrugated Metal Culverts.
Claims use since May 1, 1930.

CLASS 15

Oils and Greases

Ser. No. 339,681. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed July 12, 1933.

MARMAX

For Lubricating Oils.
Claims use since June 15, 1933.

Ser. No. 339,682. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed July 12, 1933.

MENTOR

For Lubricating Oils.
Claims use since June 16, 1933.

Ser. No. 339,683. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed July 12, 1933.

NURAY

For Lubricating Oils.
Claims use since June 15, 1933.

Ser. No. 339,684. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed July 12, 1933.

NUTO

For Lubricating Oils.
Claims use since June 15, 1933.

Ser. No. 339,685. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed July 12, 1933.

ZERICE

For Lubricating Oils.
Claims use since June 15, 1933.

Ser. No. 339,686. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed July 12, 1933.

TELURA

For Lubricating Oils.
Claims use since June 20, 1933.

Ser. No. 339,687. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed July 12, 1933.

NORVA

For Lubricating Oils.
Claims use since June 20, 1933.

Ser. No. 339,688. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed July 12, 1933.

CORAY

For Lubricating Oils.
Claims use since June 23, 1933.

CLASS 16

Paints and Painters' Materials

Ser. No. 331,999. POLIN-GOLD DRUG CO., doing business as P. & G. Laboratories, Chicago, Ill. Filed Nov. 2, 1932.

Neonize

For Automobile and Furniture Polish.
Claims use since Oct. 1, 1931.

Ser. No. 339,645. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed July 11, 1933.

ENNJAY

For Liquid Gloss, Floor Dressing, and Floor Wax.
Claims use since June 8, 1933.

Ser. No. 340,082. BINNEY & SMITH CO., New York, N. Y. Filed July 25, 1933.

GLOAMA

For Tempera Colors.
Claims use since July 14, 1933.

CLASS 17

Tobacco Products

Ser. No. 339,876. PENN TOBACCO COMPANY, Wilkes-Barre, Pa. Filed July 18, 1933.



The picture of the man is fanciful. No claim is made to the word "Dundee" apart from the mark as shown.
For Smoking and Chewing Tobacco and Cigarettes.
Claims use since July 8, 1933.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 334,139. CHRYSLER CORPORATION, Highland Park, Mich. Filed Jan. 20, 1933.

FLOATING RIDE

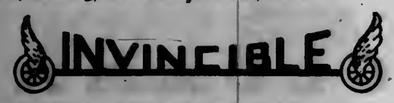
For Automobiles and Their Structural Parts.
Claims use since Nov. 30, 1932.

Ser. No. 338,966. CARPENTER, THACH, WECKER MFG. CO., Los Angeles, Calif. Filed June 19, 1933.



No claim is made to the representation of the goods or to the words "Caster Wheel Trailer", apart from the mark as shown in the drawing.
For Castor Wheel Trailers.
Claims use since May 1, 1933.

Ser. No. 339,190. INVINCIBLE SHOCK ABSORBER CORPORATION, Reading, Pa. Filed June 24, 1933.



For Shock Absorbers for Vehicles.
Claims use since May 15, 1932.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 333,927. EASTERN ENGINEERING COMPANY, New Haven, Conn., assignor, by mesne assignments to American Teletector Corporation, New Haven, Conn., a Corporation of Connecticut. Filed Jan. 14, 1933.

TELETECTOR

For Electrical Capacity-Controlled Equipment Used in the Actuation of Traffic, Burglar and Fire Alarm Signaling Systems, Testing, Measuring, Recording, and Time-Interval Devices, Doors and Machinery, Etc., and Parts Thereof.
Claims use since June 3, 1932.

Ser. No. 338,119. TELEVOICE CORPORATION OF AMERICA, New York, N. Y. Filed May 22, 1933.

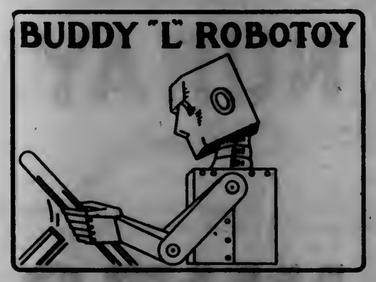


For Detectaphones, Burglar and Fire Alarms, Devices for Amplifying Telephone Conversations by Means of Electron Tubes and Loud-Speaker, Sound Operated Electric Devices for Removing and Restoring a Telephone Receiver from and to its Hook, and Parts Thereof.
Claims use since Apr. 17, 1933.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 332,224. BUDDY "L" MFG. CO., East Moline, Ill. Filed Nov. 17, 1932.



Applicant disclaims the right of exclusive use of the word "Robotoy" apart from its association with the fanciful figure shown in the mark.
For Electrically Controlled and Operated Toys—Namely, Wheeled Toys Simulating Such Articles as Dump Trucks, Fire Engines, and Automobiles.
Claims use since Aug. 10, 1932.

Ser. No. 339,280. MYERS MANUFACTURING COMPANY, Camden, N. J. Filed June 27, 1933.

Dandy Phone

No claim is made to the word "Phone", nor to the representation of the goods.
For Toy Telephones of the Taut String Type.
Claims use since June 22, 1933.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 327,810. UNDERWOOD ELLIOTT FISHER COMPANY, New York, N. Y. Filed June 7, 1932.



No claim is made to the representation of the typewriter, nor to the words "Typewriter" or "Portable" apart from the mark shown in the drawing, and no claim is made to the representation of the label per se. Applicant is the owner of registered trade-marks 68,628 (renewed) 109,696, 131,645, 167,706, and 255,898.
For Typewriting Machines and Typewriting Machine Parts.
Claims use since May 9, 1932.

Ser. No. 334,904. BARON SALES COMPANY, Cedar Rapids, Iowa. Filed Feb. 13, 1933.



Applicant disclaims per se the words "Cedar Rapids, Iowa", and the representation of the name plate shown in the drawing.
For Vending Machines.
Claims use since Jan. 25, 1933.

Ser. No. 337,405. GEORGE SCOTT WILSON, Edinburgh, Scotland. Filed May 2, 1933.

SPORK

For Combination Fork and Spoon of Ordinary Metal for Table Use.
Claims use since Mar. 30, 1933.

Ser. No. 338,256. NORTON PIKE COMPANY, Pike, N. H. Filed May 26, 1933.

NORTON PIKE *Multi-Oilstone*

No claim is made to the expression "Multi-Oilstone" apart from the remainder of the mark.
For Sharpening Apparatus Including a Plurality of Whetstones and Means for Oiling the Same.
Claims use since May 16, 1933.

Ser. No. 338,914. VIKING PUMP COMPANY, Cedar Falls, Iowa. Filed June 16, 1933.

Straitline

For Rotary Pumps for Liquids and Rotary Motors Actuated by Liquids Under Pressure.
Claims use since Dec. 19, 1931.

Ser. No. 339,455. HOCKING VALLEY MANUFACTURING COMPANY, Lancaster, Ohio. Filed July 3, 1933.

Knoc-Out

For Rotary Hammer Mills.
Claims use since Apr. 1, 1933.

Ser. No. 339,474. PULGER, BONFIGT & CO., Cologne-on-the-Rhine, Germany. Filed July 3, 1933.

Pebeco

For Saws of All Kinds.
Claims use since Apr. 30, 1924.

Ser. No. 339,514. AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y. Filed July 6, 1933.

SWAN

For Razors and Razor Blades.
Claims use since June 28, 1933.

CLASS 32

Furniture and Upholstery

Ser. No. 336,244. TAPP, DEWILDE & WALLACE, INC., Chicago, Ill. Filed Mar. 30, 1933.



For Furniture and the Like—Namely, Beds, Chiffonobes, Chests of Drawers, Benches, Night Stands, Dressing Tables, Mirrors, Commodes, Side Boards, Consoles, Drum Tables, Magazine Stands, Coffee Tables, Mantles, Book Cases, Desks, Secretaries, Occasional Tables, Pedestals, Chairs, Arm Chairs, Sofas, Settees, Hassocks, Benches, Chaises Longues, and Flower Stands.
Claims use since Nov. 15, 1932.

Ser. No. 336,538. JAMES M. NAHON, Madrid, Spain. Filed Apr. 7, 1933.

ELEKTRIFUR

For Cabinet Tables or Swivelling Cupboards on Which, or in Combination with Which, Telephone Sets or Other Apparatus Requiring Electric Current for Being Operated Can be Used.
Claims use since October, 1931.

Ser. No. 339,546. ALL METAL CARD TABLE COMPANY, Chicago, Ill. Filed July 5, 1933.

GRAND SLAM

For Table and Chair Sets.
Claims use since Dec. 26, 1932.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 333,633. MELBRIGHT OIL BURNER COMPANY, Hartford, Conn. Filed Jan. 4, 1933.

MELBRIGHT

For Oil Burners, Oil Burning Steam Generators, and Oil Burning Water Heaters.
Claims use since Dec. 20, 1932.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 338,236. THE WESTERN OIL AND FUEL COMPANY, Minneapolis, Minn. Filed May 25, 1933.

HUSKY

For Vehicle Rubber Tires and Tubes.
Claims use since May 22, 1933.

CLASS 36

Musical Instruments and Supplies

Ser. No. 338,440. THE H. N. WHITE CO., Cleveland, Ohio. Filed June 1, 1933.



For Wind Musical Instruments Consisting of Cornets, Trumpets, Trombones, Alto Horns, and Baritone Horns; and Reed Musical Instruments Consisting of Clarinets and Saxophones, Violins, Banjoes, Ukeleles, and Guitars and Strings for Such String Musical Instruments.
Claims use since Jan. 11, 1933.

CLASS 37

Paper and Stationery

Ser. No. 320,172. L. G. TREADWAY SERVICE CORPORATION, New York, N. Y. Filed Oct. 17, 1931.



For Letterheads, Envelopes, Paper Doilies, and Blotters.
Claims use since September, 1925.

Ser. No. 332,614. CONTINENTAL PAPER AND BAG CORPORATION, New York, N. Y. Filed Nov. 30, 1932.



The lining shown on the drawing is for the purpose of shading. All the wording appearing on the drawing except the word "Brillante" and the name of the applicant is disclaimed apart from the mark as shown.
For Tissue Paper.
Claims use since July 28, 1932.

Ser. No. 338,684. CAREW MANUFACTURING COMPANY, South Hadley Falls, Mass. Filed June 9, 1933.

Declaration Bond

Applicant disclaims an exclusive right to the word "Bond" apart from the mark shown in the drawing.
For Writing and Printing Paper.
Claims use since October, 1930.

Ser. No. 338,897. CELLULOSE BOTTLE SYNDICATE, Philadelphia, Pa. Filed June 16, 1933.

GLASSOPHANE
PRODUCTS

The lining on the drawing is for the purpose of shading only. No claim is made to the word "Products" alone.
For Transparent, Waterproof, Oil and Grease Proof Glassine Paper.
Claims use since Apr. 1, 1933.

Ser. No. 339,547. AMERICAN TISSUE MILLS, Holyoke, Mass. Filed July 7, 1933.

Perkins

For Crepe, Tissue, Waxed, and Glassine Papers; Toilet Paper, Paper Napkins, Towels, Tablecloths, Handkerchiefs, and Streamers; Decorative Paper-Wrapping, Shelf, and Lining Papers; Corrugated Paper Facial Tissues.
Claims use since July 1, 1931.

Ser. No. 339,963. FOX RIVER PAPER COMPANY, Appleton, Wis. Filed July 21, 1933.

HERALD

For Bond Paper.
Claims use since 1897.

Ser. No. 340,079. BINNEY & SMITH CO., New York, N. Y. Filed July 25, 1933.

BRILLIO

For Pressed Crayons.
Claims use since July 14, 1933.

Ser. No. 340,080. BINNEY & SMITH CO., New York, N. Y. Filed July 25, 1933.

CEROLA

For Wax Crayons.
Claims use since July 14, 1933.

Ser. No. 340,081. BINNEY & SMITH CO., New York, N. Y. Filed July 25, 1933.

COSMO

For Dustless Crayons.
Claims use since July 14, 1933.

Ser. No. 340,124. ABRAHAM KASMAN, doing business as Excelsior Stationery Company, New York, N. Y. Filed July 26, 1933.

Judiciary Bond

No claim is made to the exclusive use of the word "Bond" apart from the mark as appearing on the drawing.
For Bond Paper.
Claims use since Apr. 25, 1933.

CLASS 38

Prints and Publications

Ser. No. 335,608. CHEK-CHART PUBLISHING COMPANY, Chicago, Ill. Filed Mar. 13, 1933.

LUBRICATION AND MAINTENANCE

For Monthly Periodical.
Claims use since Jan. 16, 1933.

Ser. No. 339,226. GASCRIPT COMPANY OF AMERICA, INC., Los Angeles, Calif. Filed June 26, 1933.



No claim is made to the word "Gascript" apart from the mark shown.
For Profit Sharing Coupons.
Claims use since May 20, 1933.

Ser. No. 339,769. BABSON INSTITUTE, Boston, Mass. Filed July 15, 1933.



The words and numerals "Business Training—Incorporated 1923—Massachusetts—Founded 1919" are disclaimed apart from the mark shown.
For Periodicals, Catalogues, Printed Books, Bulletins, Directories, and Pamphlets.
Claims use since October, 1930.

Ser. No. 339,853. AX-GRINDER PUBLISHING CO., Chicago, Ill. Filed July 18, 1933.

The Ax-Grinder

For Monthly Publication.
Claims use since May, 1933.

CLASS 39
Clothing

Ser. No. 338,471. TAUNTON KNITTING CO., Taunton, Mass. Filed June 2, 1933.

Sterlingettes

For Knitted Union Suits, Knitted Vests, and Knitted Tights.
Claims use since May 1, 1933.

Ser. No. 338,622. J. SCHOENEMAN, INCORPORATED, Baltimore, Md. Filed June 7, 1933.

CACTUS TWIST

No claim is made to the word "Twist" apart from the mark as shown on the drawing.
For Coats, Vests, Trousers, Knickerbockers, Top Coats, and Overcoats, for Men, Youths, and Boys.
Claims use since November, 1932.

Ser. No. 339,097. BERKSHIRE KNITTING MILLS, Reading, Pa. Filed June 22, 1933.

TRIMEEL

For Hosiery.
Claims use since June 17, 1933.

Ser. No. 339,373. WHITE, New Haven, Conn. Filed June 29, 1933.

"TRUMBULL STREET"

For Men's Hats.
Claims use since June 1, 1933.

Ser. No. 339,403. MAIDEN FORM BRASSIERE CO. INC., New York, N. Y. Filed June 30, 1933.

Dec-la-tay

For Women's Underwear—Namely, Brassières.
Claims use since June 15, 1932.

Ser. No. 339,476. RELIANCE MANUFACTURING COMPANY, Chicago, Ill. Filed July 3, 1933.

YANKON

For Men's and Boys' Trousers.
Claims use since Feb. 1, 1933.

Ser. No. 339,507. STEINER-LIBERTY CORPORATION, Baltimore, Md. Filed July 5, 1933.



For Pajamas, Night Robes, Night Shirts, Night Gowns; Dress, Negligee, and Work Shirts; Underwear for Men, Women, and Children; Combinations of Underwear Suits, and Shorts.
Claims use since Jan. 3, 1933.

Ser. No. 339,562. JELENKO-LEWIS, INC., New York, N. Y. Filed July 7, 1933.

CAP GOWN

No claim is made to the exclusive use of the word "Gown" apart from the mark as shown.
For Lounging Robes.
Claims use since June 3, 1933.

Ser. No. 339,594. DAINTY MFG. CO. INC., New York, N. Y. Filed July 8, 1933.



For Ski Suits, Aviators' Suits, Boys' Suits, Snow Suits, and Sport Jackets.
Claims use since June 1, 1933.

Ser. No. 339,836. RELIANCE MANUFACTURING COMPANY, Chicago, Ill. Filed July 17, 1933.

YANK-WEAR

Applicant disclaims exclusive right to the word "Wear" apart from the mark shown.
For Men's Underwear—Namely, Athletic Shorts and Union Suits of Woven Fabrics.
Claims use since Nov. 1, 1932.

Ser. No. 339,871. MANNY-RIELLY CO., New York, N. Y. Filed July 18, 1933.

Winties

For Ladies' Underwear.
Claims use since July 3, 1933.

Ser. No. 339,941. B. KUPPENHEIMER & CO., Chicago, Ill. Filed July 20, 1933.

Mandate

For Men's and Boys' Ready-to-Wear Coats, Vests, Trousers, and Overcoats.
Claims use since July 1, 1933.

CLASS 42
Knitted, Netted, and Textile Fabrics

Ser. No. 336,765. F. C. HUYCK & SONS, Rensselaer and Albany, N. Y. Filed Apr. 14, 1933.

KENWOOD WOOL PRODUCTS

EVENTIDE

No claim is made by applicant to the right to the exclusive use of the words "Wool Products". Applicant is owner of Reg. No. 92,428 (renewed) under 10-year proviso.
For Blankets.
Claims use since Jan. 5, 1933.

Ser. No. 336,766. F. C. HUYCK & SONS, Rensselaer and Albany, N. Y. Filed Apr. 14, 1933.

KENWOOD WOOL PRODUCTS

COTTAGE

No claim is made by applicant to the right to the exclusive use of the words "Wool Products" or "Cottage". Applicant is owner of Reg. No. 92,428 (renewed) under 10-year proviso.
For Blankets.
Claims use since Jan. 5, 1933.

Ser. No. 336,768. F. C. HUYCK & SONS, Rensselaer and Albany, N. Y. Filed Apr. 14, 1933.

KENWOOD WOOL PRODUCTS

FAMOUS

No claim is made by applicant to the right to the exclusive use of the words "Wool Products". Applicant is owner of T. M. Reg. No. 92,428 (renewed) under 10-year proviso.
For Blankets.
Claims use since Jan. 5, 1933.

Ser. No. 336,769. F. C. HUYCK & SONS, Rensselaer and Albany, N. Y. Filed Apr. 14, 1933.

KENWOOD WOOL PRODUCTS

MANOR

No claim is made by applicant to the right to the exclusive use of the words "Wool Products". Applicant is owner of Reg. No. 92,428 (renewed) under 10-year proviso.
For Blankets.
Claims use since Jan. 5, 1933.

Ser. No. 336,770. F. C. HUYCK & SONS, Rensselaer and Albany, N. Y. Filed Apr. 14, 1933.

KENWOOD WOOL PRODUCTS

REVERIE THROW

No claim is made by applicant to the right to the exclusive use of the words "Wool Products" or "Throw". Applicant is owner of Reg. No. 92,428 (renewed) under 10-year proviso.
For Blankets.
Claims use since Jan. 5, 1933.

Ser. No. 336,771. F. C. HUYCK & SONS, Rensselaer and Albany, N. Y. Filed Apr. 14, 1933.

KENWOOD WOOL PRODUCTS

SUPREME

No claim is made by applicant to the right to the exclusive use of the words "Wool Products". Applicant is owner of Reg. No. 92428 (renewed), under 10-year proviso.
For Blankets.
Claims use since Jan. 5, 1933.

Ser. No. 337,470. F. C. HUYCK & SONS, Rensselaer and Albany, N. Y. Filed May 4, 1933.

KENWOOD WOOL PRODUCTS

SLUMBER THROW

No claim is made by applicant to the right to the exclusive use of the words "Wool Products" and "Slumber Throw" except as shown in the drawing. Applicant is owner of Reg. No. 92428 (renewed) under the 10-year proviso.
For Blankets.
Claims use since Mar. 27, 1923.

Ser. No. 337,519. JOHN HENRY STORES, INC., West Orange, N. J. Filed May 5, 1933.

ABSEELEY

For Textile Carpets and Textile Rugs.
Claims use since Apr. 1, 1932.

Ser. No. 337,521. JOHN HENRY STORES, INC., West Orange, N. J. Filed May 5, 1933.

PICO

For Textile Carpets and Textile Rugs.
Claims use since Apr. 1, 1932.

Ser. No. 338,251. S. H. KRESS & CO., New York, N. Y. Filed May 26, 1933.

Baby Dot

For Towels, Washcloths, Carriage Covers of Textile Materials to Cover the Body of the Carriage, Carriage Coverlets, Quilted Cotton Carriage Pads Made of Textile Materials, Crib Blankets and Coverlets, Crib Mattress Protectors Made of Textile Materials, Ribbon Sold by the Yard or by the Bolt, and Wide Elastic Used for Making Girdles or Corsets.
Claims use since Feb. 1, 1933.

Ser. No. 339,198. ONONDAGA SILK COMPANY, INC., Syracuse and New York, N. Y. Filed June 24, 1933.

Dasti

For Silk Fabrics in the Piece.
Claims use since May 29, 1933.

Ser. No. 339,199. ONONDAGA SILK COMPANY, INC., Syracuse, N. Y. Filed June 24, 1933.

Sharu

For Silk Fabrics in the Piece.
Claims use since May 29, 1933.

CLASS 43

Thread and Yarn

Ser. No. 339,573. SAMUEL V. ROSEMAN, doing business as Samuel V. Roseman Co., New York, N. Y. Filed July 7, 1933.



For Sewing Threads.
Claims use since June, 1920.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 339,110. CECIL ALEXANDER KUNSTLICH, doing business as New Yorker Beverage Company, New York, N. Y. Filed June 22, 1933.

NEW YORKER

For Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks, and Sirups and Extracts for Making the Same.
Claims use since Jan. 1, 1932.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 297,437. JUILLARD COCKCROFT CORPORATION, doing business as Juillard Cockcroft Company, Watsonville, Calif. Filed Mar. 17, 1930.

Fandango



For Canned Fruits, Canned Vegetables, Jellies, Jams, Condiments—Namely, Mustard, Hot Sauce, Olives.
Claims use since Jan. 6, 1930.

Ser. No. 303,394. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed July 11, 1930.



Although the trade-mark as shown in the drawing has customarily been printed in purple upon a light blue background, the lines shown in the drawing are not intended to be restrictively indicative of any particular colors. No claim is made to the word "Coffee" except in connection with the trademark as shown.
For Coffee.
Claims use since June 30, 1930.

Ser. No. 303,402. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed July 11, 1930.



The lining and stippling on the drawing indicate the colors green and buff, respectively, which are particularly claimed. No claim is made to the word "Coffee" except in connection with the trade-mark as shown.
For Coffee.
Claims use since June 30, 1930.

Ser. No. 325,910. HARRY E. GRIGSBY, doing business as Goody-Goody Manufacturing Company, Oklahoma City, Okla. Filed Apr. 8, 1932.

GOODY-GOODY

For Sandwiches, Thousand Island Dressing, Chili Con Carne, Condensed Chili Con Carne in Cake or Brick Form, Chili Powder, Doughnuts, Doughnut Flour Not Self-Rising, Ice-Cream Not Chocolate Covered Nor for Chocolate Coating, Frozen-Custard, Potato Chips, and Mayonnaise.
Claims use since Jan. 1, 1910.

Ser. No. 337,245. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, New York, N. Y. Filed Apr. 28, 1933.

Yukon club

For Ice Cream.
Claims use since May 25, 1932.

Ser. No. 337,798. THE NATIONAL SUGAR REFINING COMPANY OF NEW JERSEY, Jersey City, N. J. Filed May 13, 1933.

KRIST-O-KLEER
INVERT SUGAR

No claim is made to the exclusive use of the words "Invert Sugar" or "Kleer" apart from the mark as shown on the drawing.
For Invert Sugar.
Claims use since Feb. 20, 1933.

Ser. No. 338,660. JOHN M. MCCAULEY, Brooklyn, N. Y. Filed June 8, 1933.

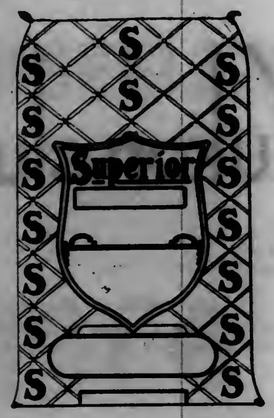
IDAHO
"Mickeys"



SELECTED
SPUDS

The figures on the drawing are fanciful. No claim is made to the exclusive use of the words "Selected", "Brand", and "Spuds" apart from the mark as shown.
For Potatoes.
Claims use since September, 1932.

Ser. No. 338,670. SUPERIOR FEED MILLS, Oklahoma City, Okla. Filed June 8, 1933.



No claim is made to the exclusive use of the word "Superior" or the representation of a bag, apart from the mark as shown.
For Feeds for Poultry.
Claims use since Jan. 1, 1927.

Ser. No. 338,781. THE KENNEL FOOD SUPPLY CO., Fairfield, Conn. Filed June 12, 1933.

K-9



For Dog Food.
Claims use since June, 1930.

Ser. No. 338,815. BORDEN'S MILK PRODUCTS CO. INC., New York, N. Y. Filed June 13, 1933.



For Malted Milk Product.
Claims use since June 1, 1933.

Ser. No. 339,082. VIRGINIA DEAN RICHMOND, Pleasanton, Wheeling, W. Va. Filed June 21, 1933.

TOASTED ROLLIE

No claim is made to the word "Toasted" apart from the mark shown in the drawing.
For Toasted Sandwiches.
Claims use since July 1, 1931.

Ser. No. 339,157. MERCK & CO., INC., Rahway, N. J. Filed June 23, 1933.

VIGOLAC

For Preparation for Making a Food Beverage.
Claims use since May 11, 1933.

Ser. No. 339,368. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed June 29, 1933.



The lining on the drawing is to indicate the color red which is particularly claimed.
For Irradiated Dry Yeast.
Claims use since May 6, 1933.

Ser. No. 339,506. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed July 5, 1933.

CW

For Mustard Seed, Whole Cloves, Celery Seed, Mixed Pickling Spice, Mayonnaise, French Dressing, Sandwich Spread, Salad Dressing, Dill Pickles, Sweet Mixed Pickles, Sweet Relish, Sweet Pickles, Sour Pickles, Relish consisting Essentially of Bottled Sliced Pickles, Imitation Lemon Extract, Imitation Banana Extract, Imitation Walnut Flavor, Imitation Maple Extract, Pure Rose Extract, Imitation Vanilla Extract, Pure Wintergreen Extract, Pure Vanilla Extract, Pure Lemon Extract, Pure Cinnamon Extract, Pure Cherry Extract, Pure Orange Extract, Pure Peppermint Extract, Pure Almond Extract, Pure Strawberry Extract, Pure Raspberry Extract, Pure Peach Extract, Olives, Stuffed Olives, Catsup Spice, Marjoram, Garlic Compound, Thyme, Savory, Chili Powder, Chili Seasoning, Curry Powder, Mincemeat; Sandwich Spread Comprising a Mixture of Eggs, Oil, Salt, Sugar, Vegetable, Vinegar, and Spices; Black Pepper, Cayenne Pepper, White Pepper, Red Pepper, Spanish Paprika, Ground Mustard, Poultry Seasoning, Celery Salt, Ground Allspice, Nutmeg, Ginger, Cloves, Ground Turmeric, Ground Cinnamon, and Ground Sage; Gunpowder Tea, Basket-Fired Japan Tea, Mixed Tea, Green Japan Tea, and Orange Pekoe and Pekoe Tea.
Claims use since July 26, 1918.

Ser. No. 339,544. WORCESTER SALT CO., New York, N. Y. Filed July 6, 1933.



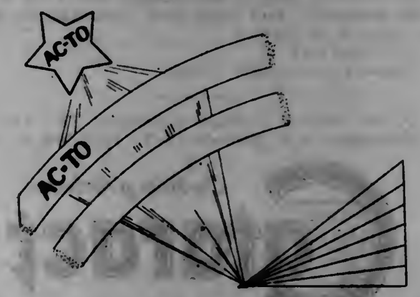
For Salt.
Claims use since Jan. 2, 1895.

Ser. No. 339,742. ACIDOPHILUS ICE CREAM CORPORATION, New York, N. Y. Filed July 14, 1933.

AC-TO

For Ice Cream and Other Frozen Confections Containing Bacillus Acidophilus.
Claims use since May 15, 1933.

Ser. No. 339,743. ACIDOPHILUS ICE CREAM CORPORATION, New York, N. Y. Filed July 14, 1933.



For Ice Cream and Other Frozen Confections Containing Bacillus Acidophilus.
Claims use since May 15, 1933.

Ser. No. 339,834. CECIL E. MCLAUGHLIN, Spokane, Wash. Filed July 17, 1933.

BEER Lunchips

For Potato Chips.
Claims use since July 10, 1933.

CLASS 48
Malt Beverages and Liquors

Ser. No. 338,810. THE TIVOLI-UNION COMPANY, Denver, Colo. Filed June 13, 1933.

'THE WESTERN ARISTOCRAT'

For Beer.
Claims use since Apr. 7, 1933.

Ser. No. 338,985. GEORGE L. MOORE, Los Angeles, Calif. Filed June 19, 1933.

HOLLYWOOD
MALIBOU PRIVATE STOCK
BROO

No claim is made to the exclusive use of the word "Hollywood" or the words "Private Stock" or the word "Broo" apart from the mark as shown.
For Beer.
Claims use since June 1, 1933.

Ser. No. 339,419. WIELANDS INCORPORATED, doing business as The Fredericksburg Brewing Co., San Francisco, Calif. Filed June 30, 1933, under 10-year proviso.

FREDERICKSBURG

For Malt, Cereal Beverages having Not Over the Legal Alcoholic Content.
Claims use since 1887.

Ser. No. 339,458. INTERNATIONAL BREWING CORPORATION, New York, N. Y. Filed July 3, 1933.



The drawing is lined for red. The face shown on the trade-mark is merely fanciful and is not that of a living person. No claim is made to the registration of a label per se.
For Beer.
Claims use since June 27, 1933.

Ser. No. 339,515. BIERBRAUEREI WILHELM REMMER G. M. B. H., Bremen, Germany. Filed July 6, 1933.



The illustration is merely fanciful and not that of a living person.
For Beer.
Claims use since Mar. 6, 1894.

Ser. No. 339,516. BIERBRAUEREI WILHELM REMMER G. M. B. H., Bremen, Germany. Filed July 6, 1933.

Dom-Bräu

No claim is made to the word "Bräu".
For Beer.
Claims use since Feb. 16, 1895.

Ser. No. 339,529. KAISERBRAUEREI BECK & Co., KOMMANDITGESELLSCHAFT AUF AKTIEN, Bremen, Germany. Filed July 6, 1933.

PERL

For Beer.
Claims use since Feb. 15, 1892.

Ser. No. 339,530. KAISERBRAUEREI BECK & Co., KOMMANDITGESELLSCHAFT AUF AKTIEN, Bremen, Germany. Filed July 6, 1933.



For Beer.
Claims use since Feb. 15, 1892.

Ser. No. 339,541. ST. PAULI BRAUEREI C. L. WILH. BRANDT, Bremen, Germany. Filed July 6, 1933.



No claim is made to the word "Bremen".
For Beer.
Claims use since May 30, 1931.

Ser. No. 339,542. ST. PAULI BRAUEREI C. L. WILH. BRANDT, Bremen, Germany. Filed July 6, 1933.

ST. PAULI GIRL

For Beer.
Claims use since May 26, 1931.

Ser. No. 339,706. BOHEMIAN DISTRIBUTING CORPORATION, New York, N. Y. Filed July 13, 1933.



No claim is made to the exclusive use of the words "Old Bohemia", "Aged Lager Beer" apart from the mark as shown in the drawing.
For Lager Beer.
Claims use since June 1, 1933.

Ser. No. 339,888. CATARACT BREWING CO., INC. OF ROCHESTER, N. Y., Rochester, N. Y. Filed July 19, 1933.

The Pride of Rochester
Cataract

For Beer and Malt.
Claims use since June 7, 1933.

Ser. No. 340,031. BRAUEREI J. G. REIF A.-G., Nuremberg, Germany. Filed July 24, 1933.

Siechen

For Beer.
Claims use since Nov. 14, 1908.

Ser. No. 340,123. KABUSHIKIKAISHA HONKANO SHOTEN, Mikage, Mikage-Machi, Muko-Gun, Hyogo-Ken, Japan. Filed July 26, 1933.

KIKU-MASAMUNE

The words "Kiku" and "Masamune", of which the trade-mark consists, are the phonetic equivalent of a Japanese word meaning "Chrysanthemum" and the name of a celebrated Japanese sword maker in former times, respectively.
For Malt Beverages with Not More Than the Legal Alcoholic Content.
Claims use since Oct. 1, 1895.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 339,111. GABRIEL LOPEZ-CEPERO, Cazalla de la Sierra, Spain. Filed June 22, 1933.



No claim is made to the representation of a bottle, nor to the representation of a label per se, nor to any of the words appearing on the drawing with the exception of the word "Ideal".
For Anisettes, Liqueurs, Cognacs, Brandies.
Claims use since Nov. 1, 1927.

Ser. No. 339,511. NAAMLOOZE VENNOOTSCHAP MAATSCHAPPIJ TOT VOORTZETTING DER AMSTERDAMSCHE LIKEURSTOKERIJ "'T LOOTSJE" DER ERVEN LUCAS BOLS, Amsterdam, Netherlands. Filed July 3, 1933.

SILVER-TOP

For Gin.
Claims use since July, 1925.

Ser. No. 339,667. CAHN, BELT & Co., Baltimore, Md. Filed July 12, 1933.

MARYLAND CLUB

For Rye Whiskey.
Claims use since 1870.

Ser. No. 339,820. THE FRANKFORT DISTILLERY, INC., Louisville, Ky. Filed July 17, 1933.

Lucky Strike

For Whiskey.
Claims use since July 6, 1933.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 338,444. THE ZAPON COMPANY, Wilmington, Del. Filed June 1, 1933.

ZAKAF

For Pyroxylin or Otherwise Coated Fabrics.
Claims use since Jan. 24, 1933.

CARNEGIE LIBRARY OF ATLANTA

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 29, 1933

305,850. ISOTONIC SOLUTION OF IODINE. IODINE EDUCATIONAL BUREAU, INC., New York, N. Y.
Filed April 28, 1933. Serial No. 337,257. PUBLISHED JUNE 6, 1933. Class 6.

305,851. LUBRICATING OILS. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed April 22, 1933. Serial No. 337,062. PUBLISHED JUNE 6, 1933. Class 15.

305,852. BISCUITS. MEYER & LANGE, INC., New York, N. Y.
Filed April 26, 1933. Serial No. 337,195. PUBLISHED JUNE 13, 1933. Class 46.

305,853. LUBRICATING OILS AND GREASES. MILTON M. PATTERSON, doing business as National Graphite Co., Los Angeles, Calif.
Filed April 26, 1933. Serial No. 337,197. PUBLISHED JUNE 20, 1933. Class 15.

305,854. BEER. MILLER HIGH LIFE COMPANY, Milwaukee, Wis.
Filed April 24, 1933. Serial No. 337,128. PUBLISHED JUNE 20, 1933. Class 48.

305,855. BEER. MILLER HIGH LIFE COMPANY, Milwaukee, Wis.
Filed April 24, 1933. Serial No. 337,129. PUBLISHED JUNE 20, 1933. Class 48.

305,856. ILLUMINATING AND FUEL OIL. PENNSYLVANIA OIL COMPANY, Charlotte, N. C.
Filed April 24, 1933. Serial No. 337,137. PUBLISHED JUNE 6, 1933. Class 15.

305,857. COCKTAILS. THE SAZERAC CO., INC., New Orleans, La.
Filed April 25, 1933. Serial No. 337,174. PUBLISHED JUNE 20, 1933. Class 49.

305,858. CONDENSERS USED IN THE IGNITION SYSTEM OF INTERNAL COMBUSTION ENGINES. GUARANTEED PARTS CO. INC., New York, N. Y.
Filed April 26, 1933. Serial No. 337,189. PUBLISHED JUNE 13, 1933. Class 21.

305,859. WALL HOLDING GRIP FOR BROOMS, MOPS, UMBRELLAS, TOOLS, GOLF CLUBS, FISHING POLES, ETC. KENNETH D. STEWART, Detroit, Mich.
Filed December 27, 1932. Serial No. 333,416. PUBLISHED JUNE 20, 1933. Class 13.

305,860. ALES, BEERS, LAGERS, PORTERS, STOUTS, AND OTHER MALT LIQUORS WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. CARLING BREWERIES, LIMITED, London, Ontario, Canada.
Filed December 28, 1932. Serial No. 333,424. PUBLISHED JUNE 20, 1933. Class 48.

305,861. LUBRICATING OILS. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed April 22, 1933. Serial No. 337,061. PUBLISHED JUNE 6, 1933. Class 15.

305,862. FOOD PRODUCTS IN GLASS AND TIN—NAMELY, FRUITS, VEGETABLES, BERRIES, SAUER KRAUT, SUCCOTASH, APPLE SAUCE, TOMATO CATSUP, AND CHILI SAUCE. SNIDER PACKING CORPORATION, Rochester, N. Y.
Filed November 14, 1932. Serial No. 332,127. PUBLISHED FEBRURY 7, 1933. Class 46.

305,863. PRESSURE-OPERATED AUTOMATIC ELECTRIC FIRE ALARM SYSTEMS AND PRESSURE-OPERATED CIRCUIT CLOSERS THEREFOR, FOR USE IN CONNECTION WITH AUTOMATIC FIRE-EXTINGUISHING SPRINKLER SYSTEMS. GLOBE AUTOMATIC SPRINKLER COMPANY, Philadelphia, Pa.
Filed November 15, 1932. Serial No. 332,146. PUBLISHED JUNE 13, 1933. Class 21.

305,864. ABRASIVE CLOTH. THE CARBORUNDUM COMPANY, Niagara Falls, N. Y.
Filed December 15, 1932. Serial No. 333,097. PUBLISHED JUNE 13, 1933. Class 4.

305,865. FRESH VEGETABLES. WM. C. FERGUSON, Stockton, Calif.
Filed April 21, 1933. Serial No. 337,028. PUBLISHED JUNE 6, 1933. Class 46.

305,866. SHARPENING DEVICE IN THE NATURE OF A HONE. GOODRICH GRINDING WHEEL COMPANY, Chicago, Ill.
Filed April 21, 1933. Serial No. 337,030. PUBLISHED JUNE 13, 1933. Class 4.

305,867. GOLF CLUBS. THE HORTON MANUFACTURING COMPANY, Bristol, Conn.
Filed April 21, 1933. Serial No. 337,032. PUBLISHED JUNE 20, 1933. Class 22.

305,868. CANNED ORANGE JUICE FOR FOOD PURPOSES, CANNED GRAPEFRUIT JUICE FOR FOOD PURPOSES, CANNED TOMATO SAUCE. ORANGE COUNTY CANNERS, INC., Los Angeles and Fullerton, Calif.
Filed April 21, 1933. Serial No. 337,045. PUBLISHED JUNE 6, 1933. Class 46.

305,869. BREAD STICKS. GEORGE FRANCIS HOGAN, Chicago, Ill.
Filed April 24, 1933. Serial No. 337,119. PUBLISHED JUNE 13, 1933. Class 46.

305,870. BEER. MILLER HIGH LIFE COMPANY, Milwaukee, Wis.
Filed April 24, 1933. Serial No. 337,126. PUBLISHED JUNE 20, 1933. Class 48.

305,871. BEER. MILLER HIGH LIFE COMPANY, Milwaukee, Wis.
Filed April 24, 1933. Serial No. 337,127. PUBLISHED JUNE 20, 1933. Class 48.

305,872. PREPARATION TO RELIEVE DIARRHŒA IN POULTRY. HERMAN E. BERG, Marthasville, Mo.
Filed April 22, 1933. Serial No. 337,065. PUBLISHED JUNE 20, 1933. Class 6.

305,873. COD-LIVER OIL AND VITAMIN. NOPCO LABORATORIES, INC., Harrison, N. J.
Filed April 22, 1933. Serial No. 337,083. PUBLISHED JUNE 20, 1933. Class 6.

305,874. DENTAL CREAM. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed April 24, 1933. Serial No. 337,104. PUBLISHED JUNE 6, 1933. Class 6.

305,875. ANTISEPTIC PREPARATION. BI-NITSO SYNDICATE, Hollywood, Calif.
Filed April 27, 1933. Serial No. 337,210. PUBLISHED JUNE 6, 1933. Class 6.

305,876. SHAVING CREAM. OVELMO COMPANY, Fort Wayne, Ind.
Filed April 27, 1933. Serial No. 337,234. PUBLISHED JUNE 6, 1933. Class 4.

305,877. COSMETICS. ALMA WOODWARD, New York, N. Y.
Filed August 17, 1932. Serial No. 329,612. PUBLISHED JUNE 6, 1933. Class 6.

305,878. LUBRICATING OILS AND GREASES. BAUM'S CASTORINE COMPANY, INC., Rome, N. Y.
Filed August 26, 1932. Serial No. 329,849. PUBLISHED JUNE 20, 1933. Class 15.

305,879. HIGH TENSION CURRENT JUMPERS. JACK DE PUDDICOMBE, New York, N. Y., assignor to Morse Holding Corporation, New York, N. Y.
Filed November 19, 1932. Serial No. 332,293. PUBLISHED JUNE 13, 1933. Class 21.

305,880. RADIO RECEIVING SETS. PILOT RADIO AND TUBE CORPORATION, Lawrence, Mass.
Filed November 30, 1932. Serial No. 332,628. PUBLISHED JUNE 20, 1933. Class 21.

305,881. PREPARATION FOR CLEANING, SCOURING, AND POLISHING. THE FEL-SO CORPORATION, New York, N. Y.
Filed August 16, 1932. Serial No. 329,577. PUBLISHED JUNE 20, 1933. Class 4.

305,882. WHISKY AND OTHER POTABLE DISTILLED LIQUORS. CONSOLIDATED DISTILLERIES, LIMITED, Montreal, Quebec, Canada.
Filed April 21, 1933. Serial No. 337,023. PUBLISHED JUNE 20, 1933. Class 49.

305,883. COSMETIC PREPARATIONS. THE ROOSA & RATLIFF CHEMICAL CO., Cincinnati, Ohio.
Filed November 7, 1932. Serial No. 331,962. PUBLISHED JUNE 20, 1933. Class 6.

305,884. COMBINATION ULTRA-VIOLET AND ELECTRIC HEATING DEVICE USED PRIMARILY FOR THERAPEUTIC PURPOSES. WILLIAM BEYER, Chicago, Ill.
Filed October 12, 1932. Serial No. 331,174. PUBLISHED JUNE 20, 1933. Class 44.

305,885. CANDIES. WILLIAM LA POTEN & CO. INC., New York, N. Y.
Filed December 20, 1932. Serial No. 333,230. PUBLISHED JUNE 6, 1933. Class 46.

305,886. WATER CLOSET SEATS. AGNES C. HAWKINS, Parkwater, Wash.
Filed September 21, 1932. Serial No. 330,547. PUBLISHED JUNE 20, 1933. Class 13.

305,887. UNIT FOR CONDITIONING AIR. CARRIER-YORK CORPORATION, Philadelphia, Pa., assignor to Carrier Corporation, Newark, N. J.
Filed September 29, 1932. Serial No. 330,780. PUBLISHED JUNE 20, 1933. Class 34.

305,888. CITRUS FRUITS—NAMELY, ORANGES, GRAPEFRUIT, AND TANGERINES. WADFORD FRUIT CO., Sulphur Springs, Fla.
Filed October 18, 1932. Serial No. 331,350. PUBLISHED JUNE 20, 1933. Class 46.

305,889. CANNED AND BOTTLED FOODS—NAMELY, FRUITS, VEGETABLES, APPLE BUTTER, JELLIES, JAMS, FRUIT PRESERVES, MARMALADES, CHILI SAUCE, HORSERADISH, AND CIDER VINEGAR. BROOK-MAID FOOD CO., INC., Brooklyn, N. Y.
Filed November 2, 1932. Serial No. 331,817. PUBLISHED FEBRUARY 21, 1933. Class 46.

305,890. NONELECTRICAL APPLIANCE TO BE USED AS AN AID IN HEARING. AMERICAN EARPHONE CO. INC., New York, N. Y.
Filed April 13, 1933. Serial No. 336,706. PUBLISHED JUNE 20, 1933. Class 44.

305,891. CLOTHES LINES OF WIRE. THE PRICE MANUFACTURING COMPANY, Chicago, Ill.
Filed April 13, 1933. Serial No. 336,724. PUBLISHED JUNE 20, 1933. Class 7.

305,892. SOAP PREPARATIONS. H. TH. BÖHME AKTIENGESELLSCHAFT, Chemnitz, Germany.
Filed April 12, 1933. Serial No. 336,670. PUBLISHED JUNE 13, 1933. Class 4.

305,893. GRASS SEED. J. OLIVER JOHNSON, INC., Chicago, Ill.
Filed April 12, 1933. Serial No. 336,680. PUBLISHED JUNE 20, 1933. Class 1.

305,894. LOCAL ANESTHETIC. ELI LILLY AND COMPANY, Indianapolis, Ind.
Filed April 14, 1933. Serial No. 336,776. PUBLISHED JUNE 20, 1933. Class 6.

305,895. FACE CONDITIONER TO SOFTEN THE BEARD FOR USE BEFORE SHAVING. MAX H. BERLINER, doing business as Traxam Products Co., Seattle, Wash.
Filed April 15, 1933. Serial No. 336,814. PUBLISHED JUNE 13, 1933. Class 4.

305,896. MALTED MILK. SUPERIOR PACKING CORP., New York, N. Y.
Filed April 12, 1933. Serial No. 336,697. PUBLISHED JUNE 13, 1933. Class 46.

305,897. EDUCATIONAL TOYS AND MATERIALS THEREFOR. HOLGATE BROTHERS COMPANY, Kane, Pa.
Filed April 14, 1933. Serial No. 336,764. PUBLISHED JUNE 20, 1933. Class 22.

305,898. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. KONIGLICHES BAYR. HOFBRÄUHAUS MÜNCHEN, Munich, Germany.
Filed April 14, 1933. Serial No. 336,774. PUBLISHED JUNE 20, 1933. Class 48.

305,899. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. KONIGLICHES BAYR. HOFBRÄUHAUS MÜNCHEN, Munich, Germany.
Filed April 14, 1933. Serial No. 336,775. PUBLISHED JUNE 20, 1933. Class 48.

305,900. BEER WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. INLAND PRODUCTS COMPANY, Spokane, Wash.
Filed April 18, 1933. Serial No. 336,908. PUBLISHED JUNE 20, 1933. Class 48.

305,901. CHICKEN MEAT PRODUCT. OSCAR F. LUSCHER, West Haven, Conn.
Filed April 18, 1933. Serial No. 336,910. PUBLISHED JUNE 20, 1933. Class 46.

305,902. LUBRICATING OIL. ROYAL WINDSOR PETROLEUM COMPANY, Philadelphia, Pa.
Filed April 13, 1933. Serial No. 336,733. PUBLISHED JUNE 13, 1933. Class 15.

305,903. VINEGAR. LAIRD & CO., INC., Entontown, N. J.
Filed April 6, 1933. Serial No. 336,506. PUBLISHED JUNE 6, 1933. Class 46.

305,904. PAPER BAGS. CONTINENTAL PAPER AND BAG CORPORATION, New York, N. Y.
Filed April 15, 1933. Serial No. 336,817. PUBLISHED JUNE 20, 1933. Class 2.

305,905. STORAGE BATTERIES. CRYSTAL CHEMICAL CORPORATION, Detroit, Mich.
Filed April 18, 1933. Serial No. 336,900. PUBLISHED JUNE 20, 1933. Class 21.

305,906. MALTED FOOD DRINK. NEW CULTURE FOOD CORP., Brooklyn, N. Y.
Filed April 20, 1933. Serial No. 336,993. PUBLISHED JUNE 20, 1933. Class 46.

305,907. WHEAT FLOUR. SCHULTZ, BAUJAN & CO., Beardstown, Ill.
Filed April 20, 1933. Serial No. 336,997. PUBLISHED JUNE 6, 1933. Class 46.

305,908. ASPHALTIC EMULSION FOR USE AS A PROTECTIVE COATING, WATERPROOFING, AND OTHER INDUSTRIAL USES. JOHNS-MANVILLE CORPORATION, New York, N. Y.
Filed April 6, 1933. Serial No. 336,504. PUBLISHED JUNE 13, 1933. Class 12.

305,909. LUBRICATING OILS AND GREASES. CHARLES F. KELLOM & CO., INC., Philadelphia, Pa.
Filed April 19, 1933. Serial No. 336,943. PUBLISHED JUNE 6, 1933. Class 15.

305,910. COSMETICS, HAIR DYE, ETC. LOUISE ERSCH KUBLICK, Chicago, Ill.
Filed April 19, 1933. Serial No. 336,944. PUBLISHED JUNE 13, 1933. Class 6.

305,911. SKIN LOTION FOR RUBBING. MINIT-RUB CORPORATION, St. Louis, Mo.
Filed April 19, 1933. Serial No. 336,951. PUBLISHED JUNE 20, 1933. Class 6.

305,912. DOUCHE SYRINGES. YOUNGS RUBBER CORPORATION, INC., New York, N. Y.
Filed April 7, 1933. Serial No. 336,553. PUBLISHED JUNE 20, 1933. Class 44.

305,913. PETROLEUM PRODUCTS—VIZ., LUBRICATING OILS. THE TEXAS COMPANY, New York, N. Y.
Filed April 18, 1933. Serial No. 336,918. PUBLISHED JUNE 6, 1933. Class 15.

305,914. MILK OF MAGNESIA, MILK OF MAGNESIA WAFERS, AND DENTIFRICES. E. R. SQUIBB & SONS, New York, N. Y.
Filed April 11, 1933. Serial No. 336,666. PUBLISHED JUNE 6, 1933. Class 6.

305,915. NON-ALCOHOLIC MALTLESS BEVERAGE MADE FROM APPLES. NAAMLOOZE VENNOOTSCHAP HERO CONSERVEN BREDA, Teteringen, near Breda, Netherlands.
Filed April 6, 1933. Serial No. 336,521. PUBLISHED JUNE 20, 1933. Class 45.

305,916. ELECTRICAL SPACE DISCHARGE TUBES. RAYTHEON PRODUCTION CORPORATION, Newton, Mass.
Filed April 7, 1933. Serial No. 336,543. PUBLISHED JUNE 20, 1933. Class 21.

305,917. MUCILAGE, ADHESIVE PASTE, AND GLUE. W. A. SHEAFFER PEN COMPANY, Fort Madison, Iowa.
Filed April 8, 1933. Serial No. 336,583. PUBLISHED JUNE 13, 1933. Class 5.

305,918. CANNED VEGETABLES, CANNED FRUITS, CANNED HOMINY, CANNED SAUER KRAUT, CANNED BERRIES, CANNED SPAGHETTI, CANNED SPAGHETTI WITH TOMATO SAUCE, CANNED SOUPS, CANNED PORK AND BEANS, CANNED PORK AND BEANS WITH TOMATO SAUCE, CANNED OYSTERS, OYSTER BROTH, SEASONING AND FLOUR FOR OYSTER STEW, TOMATO JUICE FOR FOOD PURPOSES, TOMATO PASTE, TOMATO CATSUP, AND APPLE PECTIN JELLY. GIBBS & COMPANY, INC., Baltimore, Md.
Filed April 10, 1933. Serial No. 336,609. PUBLISHED JUNE 20, 1933. Class 46.

305,919. COMBINED CLEANSING POWDER AND INSECTICIDES. JAMES M. CAMPBELL, Brooklyn, N. Y.
Filed April 11, 1933. Serial No. 336,638. PUBLISHED JUNE 6, 1933. Class 6.

305,920. WINES. ALBERT PORTE, Paris, France.
Filed March 24, 1933. Serial No. 336,051. PUBLISHED JUNE 20, 1933. Class 47.

305,921. GRAVE VAULTS. THE COMMERCIAL SHEARING & STAMPING COMPANY, Youngstown, Ohio.
Filed March 24, 1933. Serial No. 336,034. PUBLISHED JUNE 20, 1933. Class 2.

305,922. EMPTY RECEPTACLES—NAMELY, BOXES, CASES, CARTONS, BAGS, AND TUBES MADE OF WOOD, NON-PRECIOUS METALS, MINERALS, OR FIBERS, OR COMBINATIONS THEREOF, NOT GLASS OR EARTHENWARE. WALTER H. ROLL, Kansas City, Mo.
Filed March 29, 1933. Serial No. 336,194. PUBLISHED JUNE 20, 1933. Class 2.

305,923. DIGESTIVE TABLETS. FRENCO LABORATORIES, LIMITED, Long Beach, Calif., assignor to Chester D. French, Long Beach, Calif.
Filed March 27, 1933. Serial No. 336,166. PUBLISHED JUNE 20, 1933. Class 6.

305,924. FRUIT CAKES, LAYER CAKES, COFFEE CAKES. W. H. BROOKS, San Francisco, Calif.
Filed March 28, 1933. Serial No. 336,152. PUBLISHED JUNE 6, 1933. Class 46.

305,925. RADIO TUBES, RADIO RECEIVING SETS, SPARK PLUGS, ELECTRIC WAFFLE IRONS, VACUUM CLEANER ATTACHMENTS FOR CLEANING BOOKS, RADIATORS, DRAPERIES, UPHOLSTERY, ETC., AND "B" BATTERIES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 27, 1933. Serial No. 336,138. PUBLISHED JUNE 6, 1933. Class 21.

305,926. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. TACOMA BREWING CO., San Francisco, Calif.
Filed March 30, 1933. Serial No. 336,242. PUBLISHED JUNE 20, 1933. Class 48.

305,927. STOMACH CORRECTIVE. WALLACE H. ANDREWS, Chicago, Ill.
Filed March 30, 1933. Serial No. 336,206. PUBLISHED JUNE 20, 1933. Class 6.

305,928. NON-CORROSIVE, HEAT-RESISTING FIRED MATERIAL DERIVED BY COMBINATION OF MATERIALS OF MINERALOGIC ORIGIN CUT, EXTRUDED, PRESSED, OR MACHINED TO SHAPES AND DIMENSIONS FOR USE AS ELECTRIC INSULATION. AMERICAN LAVA CORPORATION, Chattanooga, Tenn.
Filed March 30, 1933. Serial No. 336,205. PUBLISHED JUNE 20, 1933. Class 21.

305,929. EMPTY RECEPTACLES—NAMELY, BOXES, CASES, CARTONS, BAGS, AND TUBES MADE OF WOOD, NON-PRECIOUS METALS, MINERALS, OR FIBERS, OR COMBINATIONS THEREOF, NOT GLASS OR EARTHENWARE. WALTER H. ROLL, Kansas City, Mo.
Filed March 29, 1933. Serial No. 336,195. PUBLISHED JUNE 20, 1933. Class 2.

305,930. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. JACK BERNSON, doing business as Main Supply Company, and as Golden Creme Products Co., Los Angeles, Calif.
Filed March 31, 1933. Serial No. 336,253. PUBLISHED JUNE 20, 1933. Class 48.

305,931. HADDOCK, COD, CUSK, HAKE, POLLACK, MACKEREL, BUTTERFISH, HERRING, WHITING, FLOUNDERS, SOLE, BLUEFISH, FISH FLAKES, AND CATFISH BOTH FRESH, FROZEN, SALTED, SMOKED, AND IN CANS; FINNAN HADDIE AND CLAMS AND OYSTERS. BAY STATE FISHING COMPANY, Boston, Mass.
Filed March 31, 1933. Serial No. 336,251. PUBLISHED JUNE 20, 1933. Class 46.

305,932. PROTECTIVE INSULATING JACKETS FOR BOTTLES AND OTHER CONTAINERS. TRIPLE INSULAIRE COMPANY, Milwaukee, Wis.
Filed March 30, 1933. Serial No. 336,243. PUBLISHED JUNE 20, 1933. Class 2.

305,933. ELECTRICAL APPLIANCES. THE WINSTED HARDWARE MANUFACTURING CO., Winsted, Conn.
Filed April 5, 1933. Serial No. 336,481. PUBLISHED JUNE 13, 1933. Class 21.

305,934. SUGAR-SPICED CRANBERRIES. G. B. RAFFETTO INC., New York, N. Y.
Filed April 5, 1933. Serial No. 336,454. PUBLISHED JUNE 20, 1933. Class 46.

305,935. MALT BEVERAGE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. GRAND RAPIDS BREWING COMPANY, Grand Rapids, Mich.
Filed April 5, 1933. Serial No. 336,434. PUBLISHED JUNE 20, 1933. Class 48.

305,936. WOOD PULP. GOTTESMAN AND COMPANY, INCORPORATED, New York, N. Y.
Filed March 31, 1933. Serial No. 336,283. PUBLISHED JUNE 6, 1933. Class 1.

305,937. ELECTRIC MOTORS AND PARTS THEREOF. GRIGSBY-GRUNOW COMPANY, Chicago, Ill.
Filed April 6, 1933. Serial No. 336,503. PUBLISHED JUNE 13, 1933. Class 21.

305,938. ALLOY USED IN IMPROVING GREY IRON CASTINGS. SAMUEL FRANKEL, New York, N. Y.
Filed April 6, 1933. Serial No. 336,501. PUBLISHED JUNE 20, 1933. Class 14.

305,939. MEDICINAL PREPARATION. BIO MEDICO, INC., New York, N. Y.
Filed April 6, 1933. Serial No. 336,491. PUBLISHED JUNE 6, 1933. Class 6.

CARNEGIE LIBRARY OF ATLANTA

305,940. PETROLEUM PRODUCTS—VIZ, GASOLINE. INDIAN REFINING COMPANY, Lawrenceville, Ill.
Filed May 4, 1932. Serial No. 326,749. PUBLISHED JUNE 13, 1933. Class 15.

305,941. PETROLEUM PRODUCTS—VIZ, GASOLINE. THE TEXAS COMPANY, Los Angeles, Calif.
Filed April 21, 1932. Serial No. 326,345. PUBLISHED JUNE 13, 1933. Class 15.

305,942. COMBINATION IRONING BOARD AND STEP LADDER, AND IRONING BOARD COVER AND PAD. MRS. RAY POLL, doing business as Lucky Lady Company, Chicago, Ill.
Filed May 18, 1933. Serial No. 337,968. PUBLISHED JUNE 20, 1933. Class 24.

305,943. CONTROLLER HANDLES FOR STOVES. FLORENCE STOVE COMPANY, Gardner, Mass.
Filed May 13, 1933. Serial No. 337,779. PUBLISHED JUNE 20, 1933. Class 13.

305,944. COAL AND COKE STOKERS, OIL BURNERS, AND GAS HEATERS. PEERLESS MANUFACTURING CO., Louisville, Ky., assignor to Peerless Manufacturing Corporation, Louisville, Ky., a Corporation of Kentucky.
Filed May 13, 1933. Serial No. 337,803. PUBLISHED JUNE 20, 1933. Class 34.

305,945. ELECTRIC LIGHTING APPARATUS CONSISTING OF INCANDESCENT ELECTRIC BULBS FOR MINIATURE LIGHTS, HOUSE LIGHTING, DECORATIVE LAMPS, AND SIMILAR LIGHTING APPARATUS. MITSUI & CO., LTD., Tokio, Japan, and New York, N. Y.
Filed May 5, 1932. Serial No. 326,788. PUBLISHED JUNE 6, 1933. Class 21.

305,946. CUTLERY—NAMELY, KNIVES MADE OF BASE METAL. MCCRORY STORES CORPORATION, New York, N. Y.
Filed August 10, 1932. Serial No. 329,448. PUBLISHED MAY 16, 1933. Class 23.

305,947. CUTLERY—NAMELY, KNIVES MADE OF BASE METAL. MCCRORY STORES CORPORATION, New York, N. Y.
Filed August 10, 1932. Serial No. 329,449. PUBLISHED MAY 16, 1933. Class 23.

305,948. PREPARATION FOR THE TREATMENT OF ATHLETE'S FOOT. JULIAN LEROY THOMPSON, doing business as Thel Laboratories, Keene, Tex.
Filed May 9, 1933. Serial No. 337,646. PUBLISHED JUNE 20, 1933. Class 6.

305,949. FLOAT TO BE USED IN CONNECTION WITH SWIMMING AND BATHING SPORTS. PLAY-BUOY MANUFACTURING COMPANY, Detroit, Mich.
Filed May 16, 1932. Serial No. 327,167. PUBLISHED JUNE 20, 1933. Class 22.

305,950. WHEAT FLOUR; LIVE STOCK FEEDS MADE FROM WHEAT, CORN, AND OATS; CEREAL PRODUCTS—NAMELY, TABLE BRAN, GRAHAM FLOUR, MUFFIN FLOUR, WHOLE WHEAT FLOUR, CORNMEAL BREAKFAST FOOD, GLUTEN FLOUR, ROLLED OATS, AND MIDDLINGS AND BREAD. FEDERAL MILL, INC., Lockport, N. Y.
Filed June 3, 1932. Serial No. 327,683. PUBLISHED FEBRUARY 7, 1933. Class 46.

305,951. MILK. PROTECTED MILK PRODUCTS, INC., Los Angeles, Calif.
Filed July 23, 1932. Serial No. 329,073. PUBLISHED JUNE 20, 1933. Class 46.

305,952. CLEANING COMPOUND FOR TILE, TERRAZZO, MARBLE, ETC. TURCO PRODUCTS, INC., Los Angeles, Calif.
Filed July 2, 1929. Serial No. 286,522. PUBLISHED JUNE 20, 1933. Class 4.

305,953. TIRES, INNER TUBES, TRANSMISSION BELTING, ETC. NATIONAL TIRE STORES INC., Denver, Colo.
Filed December 5, 1931. Serial No. 321,813. PUBLISHED JUNE 6, 1933. Class 35.

305,954. GASOLINE. BOWLING GREEN REFINING COMPANY, Bowling Green, Ky.
Filed March 18, 1932. Serial No. 325,251. PUBLISHED JUNE 20, 1933. Class 15.

305,955. LUBRICANT TO BE ADDED TO GASOLINE. GEORGE I. RAY, Charlotte, N. C.
Filed May 8, 1933. Serial No. 337,620. PUBLISHED JUNE 20, 1933. Class 15.

305,956. CIGARS. GEORGE ZIFFERBLATT & Co., Philadelphia, Pa.
Filed May 9, 1933. Serial No. 337,649. PUBLISHED JUNE 20, 1933. Class 17.

305,957. LATERAL AWNING ARMS. THE ASTRUP COMPANY, Cleveland, Ohio.
Filed May 13, 1933. Serial No. 337,770. PUBLISHED JUNE 20, 1933. Class 13.

305,958. PUZZLE. LEO J. HOSINSKI, doing business as Cap's Brain Teaser, Los Angeles, Calif.
Filed May 13, 1933. Serial No. 337,785. PUBLISHED JUNE 30, 1933. Class 22.

305,959. SPECIAL ANALYSIS, ESPECIALLY PROCESSED MALLEABLE IRON CASTINGS. THE DALTON FOUNDRIES, INC., Warsaw, Ind.
Filed May 8, 1933. Serial No. 337,602. PUBLISHED JUNE 20, 1933. Class 14.

305,960. RUM. PORTAL, DINGWALL & NORRIS, London, England.
Filed May 8, 1933. Serial No. 337,618. PUBLISHED JUNE 20, 1933. Class 49.

305,961. PREPARATION TO BE ADDED TO DRINKING WATER. SLEEPY WATER COMPANY, Hot Springs, Ark.
Filed April 28, 1933. Serial No. 337,273. PUBLISHED JUNE 20, 1933. Class 6.

305,962. PREPARED TOAST FOR USE WITH CAVIAR. ROMANOFF CAVIAR COMPANY, doing business as Hansen Packing Co., New York, N. Y.
Filed April 29, 1933. Serial No. 337,311. PUBLISHED JUNE 13, 1933. Class 46.

305,963. SHAVING CREAM. DAGGETT & RAMSDELL, New York, N. Y.
Filed April 29, 1933. Serial No. 337,287. PUBLISHED JUNE 6, 1933. Class 4.

305,964. LUBRICATING OILS. STANDARD OIL DEVELOPMENT COMPANY, Linden, N. J.
Filed April 28, 1933. Serial No. 337,275. PUBLISHED JUNE 20, 1933. Class 15.

305,965. RADIO ELECTRON TUBES. NATIONAL UNION RADIO CORPORATION, Newark, N. J.
Filed May 1, 1933. Serial No. 337,348. PUBLISHED JUNE 13, 1933. Class 21.

305,966. WINES. MESSRS. SUCESORES DE GARVEY, S. A., Jerez de la Frontera, Spain.
Filed May 1, 1933. Serial No. 337,346. PUBLISHED JUNE 20, 1933. Class 47.

305,967. COMBINATION DRIED BUTTERMILK AND POTATO FLOUR FOR STIMULATING AND REGULATING FERMENTATION FOR MAKING BREAD, CAKE, PASTRY, PANCAKES, AND OTHER FOODS. ROGERS BROS. SEED CO., Chicago, Ill., and Idaho Falls, Idaho.
Filed April 29, 1933. Serial No. 337,312. PUBLISHED JUNE 13, 1933. Class 46.

305,968. COAL. THE BRENWITT COAL & COKE CO., Toledo, Ohio.
Filed May 2, 1933. Serial No. 337,382. PUBLISHED JUNE 20, 1933. Class 1.

305,969. FIRE EXTINGUISHING LIQUID CHEMICALS. PIONEER CHEMICAL WORKS, INC., Chicago, Ill.
Filed May 1, 1933. Serial No. 337,355. PUBLISHED JUNE 6, 1933. Class 6.

305,970. CROWNS OR GERM OF WHEAT FOR USE IN SUPPLYING VITAMINS TO THE DIET. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn.
Filed May 1, 1933. Serial No. 337,352. PUBLISHED JUNE 20, 1933. Class 46.

305,971. CHILDREN'S COLORING AND DRAWING OUTFITS SOLD AS A UNIT. BURTON PLAYTHINGS, INC., New York, N. Y.
Filed May 4, 1933. Serial No. 337,459. PUBLISHED JUNE 20, 1933. Class 22.

305,972. LIQUID CEMENT PREPARED ESPECIALLY AS AN ADHESIVE AND LEAK-PROOFING MATERIAL FOR CYLINDER HEAD GASKETS AND FOR HOSE CONNECTIONS AND BICYCLE TIRES. PURITAN SOAP COMPANY, Rochester, N. Y.
Filed May 3, 1933. Serial No. 337,439. PUBLISHED JUNE 20, 1933. Class 5.

305,973. LUBRICATING OILS. REFINERS MARKETING COMPANY LIMITED, Los Angeles, Calif., assignor to Coast 2 Coast Oil Company, Cleveland, Ohio, a Corporation of Ohio.
Filed May 2, 1933. Serial No. 337,395. PUBLISHED JUNE 20, 1933. Class 15.

305,974. CHILDREN'S DRAWING BOOKS AND CRAYONS SOLD AS A UNIT. LIVINGSTON & COMPANY, INC., New York, N. Y.
Filed May 2, 1933. Serial No. 337,391. PUBLISHED JUNE 20, 1933. Class 22.

305,975. NON-MEDICINAL LAXATIVES. EDROS NATURAL PRODUCTS, INC., New York, N. Y.
Filed May 4, 1933. Serial No. 337,462. PUBLISHED JUNE 20, 1933. Class 6.

305,976. OINTMENT FOR THE TREATMENT OF ACNE AND PIMPLES. DERMALAB, INC., Winnetka, Ill.
Filed May 4, 1933. Serial No. 337,460. PUBLISHED JUNE 20, 1933. Class 6.

305,977. BICYCLES AND TRICYCLES. GUARANTEE BICYCLE CO., St. Louis, Mo.
Filed May 5, 1933. Serial No. 337,518. PUBLISHED JUNE 20, 1933. Class 19.

305,978. CRACKER MEAL. THE B. MANISCHEWITZ CO., Jersey City, N. J., and Cincinnati, Ohio.
Filed May 4, 1933. Serial No. 337,477. PUBLISHED JUNE 20, 1933. Class 46.

305,979. SPECIAL ANALYSIS, ESPECIALLY PROCESSED GREY IRON CASTINGS. THE DALTON FOUNDRIES, INC., Warsaw, Ind.
Filed May 8, 1933. Serial No. 337,601. PUBLISHED JUNE 20, 1933. Class 14.

305,980. HYDROCARBON MOTOR FUEL OILS AND LUBRICATING OILS. THE PURE OIL COMPANY, Chicago, Ill.
Filed May 6, 1933. Serial No. 337,574. PUBLISHED JUNE 20, 1933. Class 15.

305,981. BURLAP BAGS. NATIONAL BAG MANUFACTURING COMPANY, INCORPORATED, Minneapolis, Minn.
Filed February 25, 1933. Serial No. 335,285. PUBLISHED JUNE 20, 1933. Class 2.

305,982. HAMS, AND SLICED BACON AND BACON NUGGETS. EAST TENNESSEE PACKING COMPANY, Knoxville, Tenn.
Filed March 18, 1933. Serial No. 335,811. PUBLISHED JUNE 13, 1933. Class 46.

305,983. CLOCKS. PENNWOOD CLOCK CORPORATION, Pittsburgh, Pa.
Filed February 1, 1933. Serial No. 334,537. PUBLISHED JUNE 20, 1933. Class 27.

305,984. PREPARATIONS FOR CLEANING AND POLISHING GLASS. RECKITTS (NEW YORK) LTD., Rochester, N. Y.
Filed February 13, 1933. Serial No. 334,928. PUBLISHED JUNE 20, 1933. Class 4.

305,985. PUZZLE GAMES. WALTER F. GIBIAN, New York, N. Y.
Filed March 1, 1933. Serial No. 335,398. PUBLISHED JUNE 20, 1933. Class 22.

305,986. LADIES' HANDBAGS AND POCKET-BOOKS. INGBER & COMPANY, Philadelphia, Pa.
Filed March 18, 1933. Serial No. 335,615. PUBLISHED JUNE 6, 1933. Class 3.

305,987. LUBRICATING OILS. THE FREEDOM OIL WORKS COMPANY, Freedom, Pa.
Filed March 15, 1933. Serial No. 335,670. PUBLISHED JUNE 20, 1933. Class 15.

305,988. CANNED FRUITS, CANNED VEGETABLES, SWEET RELISH, PREPARED MUSTARD, TOMATO CATCHUP, AND CANNED FISH. LIBBY, MCNEILL & LIBBY, Chicago, Ill.
Filed March 21, 1933. Serial No. 335,940. PUBLISHED JUNE 6, 1933. Class 46.

305,989. CORN MEAL, WHEAT FLOUR, AND TABLE SYRUP. RUHMANN GRAIN & SEED COMPANY, Waco, Tex.
Filed March 22, 1933. Serial No. 335,972. PUBLISHED JUNE 6, 1933. Class 46.

305,990. PHARMACEUTICAL PRODUCT FOR COLDS. SCHWEIZ. SERUM- & IMPFINSTITUT BERN, Bern, Switzerland.
Filed February 25, 1933. Serial No. 335,298. PUBLISHED JUNE 13, 1933. Class 6.

305,991. CANDY. PAUL F. BEICH COMPANY, Bloomington, Ill.
Filed March 20, 1933. Serial No. 335,846. PUBLISHED JUNE 6, 1933. Class 46.

305,992. CANDY. BOSTON CONFECTIONERY COMPANY, Cambridge, Mass.
Filed March 20, 1933. Serial No. 335,848. PUBLISHED JUNE 6, 1933. Class 46.

305,993. MEDICINAL COMPOUND. WILLIAM E. ANKLAM, Chicago, Ill., assignor to Cal-Acetyl Company, Chicago, Ill., a Corporation of Illinois.
Filed March 20, 1933. Serial No. 335,842. PUBLISHED JUNE 6, 1933. Class 6.

305,994. ADHESIVES—NAMELY, LIQUID PASTE AND MUCILAGE. THE AULT & WIBORG COMPANY, New York, N. Y.
Filed March 20, 1933. Serial No. 335,844. PUBLISHED JUNE 13, 1933. Class 5.

305,995. RUM. PORTAL, DINGWALL & NORRIS, London, England.
Filed January 20, 1933. Serial No. 334,159. PUBLISHED JUNE 20, 1933. Class 49.

305,996. FOODS FOR FOXES AND ALL CARNIVOROUS ANIMALS. A. LOUIS BELOTTI, doing business as Calneva Products Company; San Francisco, Calif.
Filed January 21, 1933. Serial No. 334,239. PUBLISHED JUNE 6, 1933. Class 46.

305,997. PERFUME, COSMETICS, ETC. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfümerie-Fabrik, "Glockengasse No. 4711" Gegenüber der Pferdepost von Ferd. Mülhens, Cologne, Germany.
Filed January 31, 1933. Serial No. 334,495. PUBLISHED JUNE 20, 1933. Class 6.

305,998. DRY CLEANING COMPOUNDS. LOUIS POUYANNE, Paris, France.
Filed January 5, 1933. Serial No. 333,687. PUBLISHED JUNE 6, 1933. Class 4.

305,999. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. BOHEMIAN DISTRIBUTING CO. LTD., Los Angeles, Calif.
Filed January 7, 1933. Serial No. 333,724. PUBLISHED JUNE 20, 1933. Class 48.

306,000. INSECTICIDE. R. M. WILSON, doing business as American Mothproof Co., Los Angeles, Calif.
Filed January 14, 1933. Serial No. 333,959. PUBLISHED JUNE 6, 1933. Class 6.

306,001. ALE WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. CARLING BREWERIES LIMITED, London, Ontario, Canada.
Filed January 20, 1933. Serial No. 334,137. PUBLISHED JUNE 20, 1933. Class 48.

306,002. PRUNES, RAISINS, DRIED FRUITS, HONEY, AND EVAPORATED APPLES. ROSENBERG BROS. & CO., San Francisco, Calif.
Filed February 25, 1933. Serial No. 335,295. PUBLISHED JUNE 13, 1933. Class 46.

306,003. CANTALOUPES AND MELONS. C. H. WEAVER & CO., Chicago, Ill.
Filed December 30, 1932. Serial No. 333,544. PUBLISHED JUNE 6, 1933. Class 46.

306,004. BREAD. C. W. BUCKEY BAKING COMPANY, INC., New Britain, Conn.
Filed January 5, 1933. Serial No. 333,668. PUBLISHED JUNE 20, 1933. Class 46.

306,005. CAKES. DAISY D. DOOLIN, doing business as Frito Company, San Antonio, Tex.
Filed February 21, 1933. Serial No. 335,180. PUBLISHED JUNE 20, 1933. Class 46.

306,006. STORAGE BATTERIES. NOAH'S ARK AUTO ACCESSORIES, INC., Rochester, N. Y.
Filed February 23, 1933. Serial No. 335,206. PUBLISHED JUNE 13, 1933. Class 21.

306,007. BURLAP BAGS. NATIONAL BAG MANUFACTURING COMPANY, INCORPORATED, Minneapolis, Minn.
Filed February 25, 1933. Serial No. 335,284. PUBLISHED JUNE 20, 1933. Class 2.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

306,008. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SHURON OPTICAL COMPANY, INC., Geneva, N. Y. Filed June 16, 1933. Serial No. 338,910.

SHOCK ABSORBER MOUNTING

For Ophthalmic Mountings.
Claims use since Mar. 1, 1932.

306,009. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) NATIONAL AUTOMOTIVE FIBRES, INC., Detroit, Mich. Filed May 13, 1933. Ser. No. 337,796.

MULTI-PLEATER

For Cushion Sewing Machines.
Claims use since October, 1928.

306,010. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN HENRY STORES, INC., West Orange, N. J. Filed May 5, 1933. Serial No. 337,520.

McCLOUD

For Textile Carpets and Textile Rugs.
Claims use since Apr. 1, 1932.

306,011. (CLASS 43. THREAD AND YARN.) MERKEL & KIENLIN G. M. B. H., Esslingen-Neckar, Germany. Filed Apr. 6, 1933. Serial No. 336,507.

DRYWOOL

Trockenwolle

For Woolen Yarns.
Claims use since Feb. 26, 1932.

306,012. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BERRY SOLDER CO. INC., New York, N. Y. Filed Nov. 25, 1932. Serial No. 332,442.

LEEK-PRUF

For Solder.
Claims use since July 5, 1932.

306,013. (CLASS 48. MALT BEVERAGES, AND LIQUORS.) THE KOCH BEVERAGE AND ICE CO., doing business as The Koch Beverage Co., Wapakoneta, Ohio. Filed Oct. 14, 1932. Serial No. 331,260.

DUTCH SPECIAL

For Malt Beverage Having Not More Than the Legal Alcoholic Content.
Claims use since July 1, 1932.

306,014. (CLASS 15. OILS AND GREASES.) ECONOMY OIL SALES CORPORATION, Freehold, N. J. Filed Oct. 1, 1932. Serial No. 330,846.

C-tect

For Motor Fuel Oil, Lubricating Oil, Gasoline and Kerosene.
Claims use since May 1, 1932.

306,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EARL FRUIT COMPANY, San Francisco, Calif. Filed Jan. 13, 1932. Serial No. 322,955.

Di Giorgio

For Fresh Fruits—Namely, Grapes.
Claims use since July 7, 1931.

306,016. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CAPITAL CITY PRODUCTS COMPANY, Columbus, Ohio. Filed Feb. 17, 1933. Serial No. 335,056.

DRI KOTE

For a Vegetable Crystallizing Oil Composed of Stearic and Other High Melting Point Fat Glycerides Produced by Pressure, to be Used in the Manufacture of Coatings for Biscuits and Confections: also in the Production of Candies to Aid in Chewing and Cutting Qualities.
Claims use since Dec. 9, 1929.

TRADE-MARK REGISTRATIONS RENEWED

41,079. SOLUBLE RECEPTACLES. Registered September 8, 1903. JOHANN SCHMIDT, Nuremburg, Germany. Renewed September 8, 1933, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

41,127. CERTAIN-NAMED VEHICLES AND MACHINES THEREFOR. Registered September 15, 1903. DAIMLER-MOTOREN-GESELLSCHAFT, Cannstadt, Germany. Renewed September 15, 1933, to Daimler-Benz Aktiengesellschaft, Stuttgart, Germany, a corporation of Germany, by change of name.

41,199. OXYGEN PREPARATIONS FOR INTERNAL USE. Registered September 29, 1903. LEOPOLD FRED NEIRATH, Berlin, Germany. Renewed September 29, 1933, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

41,868. CERTAIN NAMED BAKERY PRODUCTS. Registered January 12, 1904. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and Chicago, Ill. Renewed January 12, 1934, to National Biscuit Company, New York, N. Y., a Corporation of New Jersey.

90,425. BLEACHED MUSLIN. Registered February 25, 1913. THE FERGUSON MCKINNEY DRY GOODS CO. Renewed February 25, 1933, to Ely & Walker Dry Goods Co., St. Louis, Mo., a Corporation of Missouri, successor.

92,315. BAKING-POWDER. Registered July 1, 1913. ALFRED BIRD AND SONS, LIMITED. Renewed July 1, 1933, to Alfred Bird & Sons, Limited, Birmingham, England, a Corporation of Great Britain, assignee.

92,616. SHOVELS, SPADES, AND SCOOPS. Registered July 22, 1913. AMES SHOVEL & TOOL COMPANY, Jersey City, N. J., and Boston, Mass. Renewed July 22, 1933, to Ames Baldwin Wyoming Co., Parkersburg, W. Va., a Corporation of Delaware, assignee.

92,617. SHOVELS, SPADES, AND SCOOPS. Registered July 22, 1913. AMES SHOVEL & TOOL COMPANY, Jersey City, N. J., and Boston, Mass. Renewed July 22, 1933, to Ames Baldwin Wyoming Co., Parkersburg, W. Va., a Corporation of Delaware, assignee.

92,745. A LUBRICATING OIL OR GREASE. Registered July 22, 1913. UNION OIL COMPANY OF CALIFORNIA, Oleum, Calif. Renewed July 22, 1933, to Union Oil Company of California, Los Angeles, Calif., a Corporation of California.

92,857. SHERRY-WINE. Registered July 29, 1913. JULIUS WILE, SONS & CO. Renewed July 29, 1933, to Julius Wile Sons & Co. Inc., New York, N. Y., a Corporation of New York, assignee.

92,922. PERIODICALS. Registered August 5, 1913. THE W. S. TYLER COMPANY, Cleveland, Ohio, a Corporation of Ohio. Renewed August 5, 1933.

92,923. PERIODICALS. Registered August 5, 1913. THE W. S. TYLER COMPANY, Cleveland, Ohio, a Corporation of Ohio. Renewed August 5, 1933.

92,939. SHOULDER-BRACES AND SUSPENDERS. Registered August 12, 1913. P. BAILLY & CIE. Renewed August 12, 1933, to P. Bailly & Cie., Paris, France, a Corporation of France, successor.

92,940. SHOULDER-BRACES AND SUSPENDERS. Registered August 12, 1913. P. BAILLY & CIE. Renewed August 12, 1933, to P. Bailly & Cie., Paris, France, a Corporation of France, successor.

93,241. VETERINARY REMEDIES. Registered August 26, 1913. IOWA STOCK FOOD CO. Renewed August 26, 1933, to Howard-Iowa Products Co., Jefferson, Iowa, a Corporation of Iowa, successor.

93,383. AN ANTISYPHILITICUM. Registered September 9, 1913. CARL SCHINDLER, Schöneberg, Germany. Renewed September 9, 1933, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

93,467. INORGANIC ACIDS, SODIUM-BISULFATE, POTASH, AND NITRATE OF SODA, AND SACCHARIN. Registered September 16, 1913. SACCHARIN-FABRIK, AKTIEN-GESELLSCHAFT, VORM. FAHLBERG, LIST & CO., Salbke-Westerhüsen, Germany. Renewed September 16, 1933, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

93,577. CERTAIN NAMED MEASURING AND SCIENTIFIC APPLIANCES. Registered September 23, 1913. CARL ZEISS, Jena, Germany. Renewed September 23, 1933, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

93,578. CERTAIN NAMED MEASURING AND SCIENTIFIC APPLIANCES. Registered September 23, 1913. CARL ZEISS, Jena, Germany. Renewed September 23, 1933, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

93,579. CERTAIN NAMED MEASURING AND SCIENTIFIC APPLIANCES. Registered September 23, 1913. CARL ZEISS, Jena, Germany. Renewed September 23, 1933, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

93,580. CERTAIN NAMED MEASURING AND SCIENTIFIC APPLIANCES. Registered September 23, 1913. CARL ZEISS, Jena, Germany. Renewed September 23, 1933, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

93,581. CERTAIN NAMED MEASURING AND SCIENTIFIC APPLIANCES. Registered September 23, 1913. CARL ZEISS, Jena, Germany. Renewed September 23, 1933, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

93,582. CERTAIN NAMED MEASURING AND SCIENTIFIC APPLIANCES. Registered September 23, 1913. CARL ZEISS, Jena, Germany. Renewed September 23, 1933, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

93,623. CERTAIN NAMED OPTICAL GOODS. Registered September 30, 1913. CARL ZEISS, Jena, Germany. Renewed September 30, 1933, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

93,724. A PREPARATION OF AN OILY NATURE FOR TREATING TEXTILE FABRICS. Registered October 14, 1913. E. F. HOUGHTON & CO., Philadelphia, Pa., a Corporation of Pennsylvania. Renewed October 14, 1933.

93,960. CUSTARD POWDER, EGG-POWDER, AND BLANC-MANGE POWDER. Registered October 28, 1913. ALFRED BIRD AND SONS, LIMITED. Renewed October 28, 1933, to Alfred Bird & Sons, Limited, Birmingham, England, a Corporation of Great Britain, assignee.

93,995. CARBONIZING COMPOUNDS, DISINFECTANTS, COMPOUNDS FOR PREVENTING OXIDATION, AND SOLUBLE TALLOW COMPOUND. Registered October 28, 1913. E. F. Houghton & Co., Philadelphia, Pa., a Corporation of Pennsylvania. Renewed October 28, 1933.

94,066. FLYING-MACHINES AND CERTAIN NAMED PARTS THEREOF. Registered November 4, 1913. DAIMLER-MOTOREN-GESELLSCHAFT. Renewed November 4, 1933, to Daimler-Benz Aktiengesellschaft, Untertürkheim, near Stuttgart, Germany, a Corporation of Germany, by change of name.

94,509. COTTON PIECE GOODS. Registered December 9, 1913. AMOSKEAG MANUFACTURING COMPANY. Renewed December 9, 1933, to Amoskeag Manufacturing Company, Manchester, N. H., trustees under a Declaration of Trust of Massachusetts, assignee by mesne assignments.

94,714. A LIQUEUR. Registered December 30, 1913. COINTREAU PERE ET FILS. Renewed December 30, 1933, to Societe a Responsabilite Limitee Cointreau, Angers, France, a Corporation of France, successor.

94,851. COTTON PIECE GOODS. Registered January 13, 1914. AMOSKEAG MANUFACTURING COMPANY. Renewed January 13, 1934, to Amoskeag Manufacturing Company, Manchester, N. H., trustees under a Declaration of Trust of Massachusetts, assignee by mesne assignments.

94,852. COTTON PIECE GOODS. Registered January 13, 1914. AMOSKEAG MANUFACTURING COMPANY. Renewed January 13, 1934, to Amoskeag Manufacturing Company, Manchester, N. H., trustees under a Declaration of Trust of Massachusetts, assignee by mesne assignments.

94,853. COTTON PIECE GOODS. Registered January 13, 1914. AMOSKEAG MANUFACTURING COMPANY. Renewed January 13, 1934, to Amoskeag Manufacturing Company, Manchester, N. H., trustees under a Declaration of Trust of Massachusetts, assignee by mesne assignments.

94,854. COTTON PIECE GOODS. Registered January 13, 1914. AMOSKEAG MANUFACTURING COMPANY. Renewed January 13, 1934, to Amoskeag Manufacturing Company, Manchester, N. H., trustees under a Declaration of Trust of Massachusetts, assignee by mesne assignments.

94,859. LINOLEUM. Registered January 13, 1914. ARMSTRONG CORK COMPANY, Pittsburgh, Pa. Renewed January 13, 1934, to Armstrong Cork Company, Lancaster, Pa., a Corporation of Pennsylvania.

94,934. FOOD-PRESERVATIVES, ANTISEPTICS, DISINFECTANTS, GERMICIDES, BOILER COMPOUNDS, AND FOOD-COLORS. Registered January 13, 1914. THE PRESERVALINE MANUFACTURING CO., Brooklyn, N. Y., a Corporation of New York. Renewed January 13, 1934.

94,979. WORM-ERADICATOR, WEED AND INSECT DESTROYERS, AND DISINFECTANTS. Registered January 20, 1914. Renewed January 20, 1934, to Bon Arbor Chemical Co., Paterson, N. J., a Corporation of New Jersey.

LABELS

REGISTERED AUGUST 29, 1933

42,597.—*Title:* AC-TO ACIDOPHILUS ICE CREAM. For Ice Cream. ACIDOPHILUS ICE CREAM CORPORATION, New York, N. Y. Published May 15, 1933.

42,598.—*Title:* ALTA VISTA WINES "THE WINES CALIFORNIA MAKES FAMOUS." For Wines. ALTA VISTA WINES CO., San Francisco, Calif. Published January 21, 1933.

42,599.—*Title:* CRESHEM ARMS. For Cigars. RICHARD BAYLIN, doing business as B. & S. Cigar Company, Chester, Pa. Published June 20, 1933.

42,600.—*Title:* ALPURPOSE INVESTMENT. For an Investment Which is an All Around Dental Casting, Soldering and Flasking Material and is Especially Adapted for Use With the New Synthetic Resin Materials. HARRY J. BOSWORTH COMPANY, Chicago, Ill. Published May 15, 1933.

42,601.—*Title:* LILLIAN KAY. For Hand Lotion. NORMAN J. BROADWAY, doing business as Elkay Products Company, Canton, Ohio. Published May 2, 1933.

42,602.—*Title:* NANCY LEE. For Cocoa. CANADA'S PRIDE PRODUCTS CO. INC., New York, N. Y. Published May 10, 1932.

42,603.—*Title:* MODERN MAID PURE SOAP FLAKES. For Pure Soap Flakes. CORN OIL SOAP COMPANY, Los Angeles, Calif. Published May 22, 1933.

42,604.—*Title:* OCEAN DEEP. For Salmon. THE CROOSE & BLACKWELL COMPANY, Baltimore, Md. Published July 14, 1933.

42,605.—*Title:* DU GAL. For Orange Juice. EAGLE PRODUCTS CO., INC., Los Angeles, Calif. Published July 21, 1933.

42,606.—*Title:* DU GAL. For Lemon Juice. EAGLE PRODUCTS CO., INC., Los Angeles, Calif. Published July 21, 1933.

42,607.—*Title:* DU GAL. For Grapefruit Juice. EAGLE PRODUCTS CO., INC., Los Angeles, Calif. Published July 21, 1933.

42,608.—*Title:* PERSTIK DEODORANT. For Deodorant. FEMININE PRODUCTS, INC., New York, N. Y. Published March 2, 1933.

42,609.—*Title:* GOITER-DINE. For Candy Used as a Preventive of Goiter. GLY-SER-DINE CHEMICAL COMPANY, Milwaukee, Wis. Published June 5, 1933.

42,610.—*Title:* MRS. HALFIN'S. For an Imported Bird Seed Mixture. GATES A. HALFIN, St. Louis, Mo. Published May 1, 1933.

42,611.—*Title:* LAKESIDE 'NORMUS. For Canned Peas. LAKESIDE PACKING COMPANY, Manitowic, Wis. Published July 26, 1933.

42,612.—*Title:* SUNSHINE NOBILITY ASSORTMENT. For English Style Biscuits. LOOSE-WILES BISCUIT COMPANY, Long Island City, N. Y. Published June 17, 1933.

42,613.—*Title:* SIGARI ITALO BALBO. For Cigars. LUPO CIGAR COMPANY, New York, N. Y. Published July 12, 1933.

42,614.—*Title:* MOTO-KING. For Motor Oils. MOTO-KING LUBRICANTS, INC., Oil City, Pa. Published June 2, 1933.

42,615.—*Title:* MILK-BONE DOG BISCUIT. For Dog Biscuit. NATIONAL BISCUIT COMPANY, New York, N. Y. Published July 1, 1933.

42,616.—*Title:* JUNIOR MILK-BONE. For Food for Dogs and Puppies. NATIONAL BISCUIT COMPANY, New York, N. Y. Published July 1, 1933.

42,617.—*Title:* CRUMBS. For a Food for Cats, Kittens, Puppies, and Toy Dogs. NATIONAL BISCUIT COMPANY, New York, N. Y. Published July 1, 1933.

42,618.—*Title:* MILK-BONE PUPPY BISCUIT. For Biscuits for Puppies. NATIONAL BISCUIT COMPANY, New York, N. Y. Published July 1, 1933.

42,619.—*Title:* NAMICO. For Scouring Powder. NATIONAL MILLING & CHEMICAL COMPANY, Manayunk, Philadelphia, Pa. Published August 1, 1933.

42,620.—*Title:* PETKELP. For Cat, Dog, and Bird Food. PHILIP R. PARK, INC., San Pedro, Calif. Published May 10, 1933.

42,621.—*Title:* BEECHDALES. For Soap. THE PRIMA PRODUCTS COMPANY, Cincinnati, Ohio. Published May 26, 1933.

42,622.—*Title:* SPIC AND SLIC. For Polish and Oil. RITTER DENTAL MANUFACTURING COMPANY, INC., Rochester, N. Y. Published May 19, 1933.

42,623.—*Title:* SLIC. For Oil. RITTER DENTAL MANUFACTURING COMPANY, INC., Rochester, N. Y. Published May 19, 1933.

42,624.—*Title:* SPIC. For Polish. RITTER DENTAL MANUFACTURING COMPANY, INC., Rochester, N. Y. Published May 19, 1933.

42,625.—*Title:* PUBLIC SPIRIT. For Cigars. SERVICE CIGAR CO., Philadelphia, Pa. Published May 24, 1933.

42,626.—*Title:* LADY ANNE. For a Polish and Cleaner. HYMAN E. SHERMAN, doing business as The Midwest Products Co., Chicago, Ill. Published July 25, 1933.

42,627.—*Title:* JIM CRACKS. For a Pop Corn Confection. JAMES F. SMITH, doing business as Smitty's Products Company, Dayton, Ohio. Published April 28, 1933.

42,628.—*Title:* TENDER LEAF TEA (ORANGE PEKOE & PEKOE). For Tea. STANDARD BRANDS INCORPORATED, New York, N. Y. Published July 15, 1933.

42,629.—*Title:* TENDER LEAF TEA (JAPAN GREEN). For Tea. STANDARD BRANDS INCORPORATED, New York, N. Y. Published July 15, 1933.

42,630.—*Title:* DA VINCI. For Crayons. STANDARD TOYKRAFT PRODUCTS, INC., New York, N. Y. Published July 15, 1933.

42,631.—*Title:* HEARST RANCH. For Fancy Halved Peaches. SUNICAL PACKING COMPANY, San Francisco, Calif. Published June 6, 1933.

42,632.—*Title:* THOMPSON'S ALL IN ONE SALVE. For Medicinal Salve for External Use Only. J. W. THOMPSON, Jackson, Miss. Published July 12, 1932.

42,633.—*Title:* CHEKER-JUMP. For a Checker Game. M. WEST, Chicago, Ill. Published June 26, 1933.

42,634.—*Title:* ALL-STATE BRAND BEER. For Beer. A. L. WILSON, S. O. HUTTON, and W. M. DEVITT, Memphis, Tenn. Published April 29, 1933.

PRINTS

REGISTERED AUGUST 29, 1933

14,309.—*Title:* SANDAG. For a Fine Aggregate For Use in Concrete and Masonry Work. CENTRAL ROCK COMPANY, Lexington, Ky. Published July 19, 1933.

14,310.—*Title:* PERSTIK. For Deodorant. FEMININE PRODUCTS, INC., New York, N. Y. Published February 20, 1933.

14,311.—*Title:* THIS NEW LIFE-SAVING TIRE PREVENTS CAUSE OF BLOW-OUTS! (AD NO. GBC–8). For Rubber Tires. THE B. F. GOODRICH RUBBER COMPANY, Akron, Ohio. Published August 5, 1933.

14,312.—*Title:* DON'T YOU WANT THIS LIFE-SAVING TIRE? (AD NO. GBC–310). For Rubber Tires. THE B. F. GOODRICH RUBBER COMPANY, Akron, Ohio. Published August 7, 1933.

REISSUES

AUGUST 29, 1933

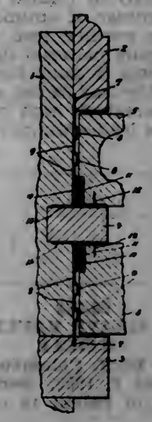
18,926

WINDOW CONSTRUCTION

Elmer D. Barringer, Cleveland, Ohio

Original No. 1,849,265, dated March 15, 1932, Serial No. 556,292, August 10, 1931. Application for reissue July 15, 1933. Serial No. 680,645

29 Claims. (Cl. 20—69)



1. A window construction comprising the combination with a window frame, a window stop, a parting strip and a window sash intermediate the parting strip and stop, of a three part weatherstrip comprising a member frictionally held adjacent one end within the stop and positioned intermediate the window frame and sash and forming a guide for the sash, a second weatherstrip member secured to the sash and bent at right angles in engagement with the sash, then bent again to form a U-shaped channel and bent a third time to form an inverted U-shaped channel enclosing the first member adjacent its other end and being disposed between the said first member and the window frame, and a third weatherstrip member movably secured between the window frame and parting strip, and having a portion thereof projecting into the aforesaid U-shaped channel.

18,927

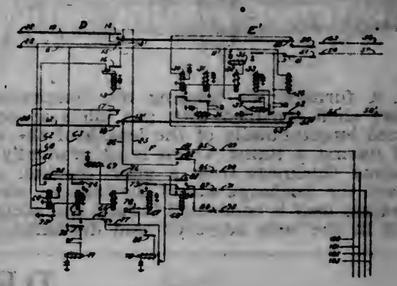
TELEPHONE SYSTEM

Richard Mercer, Harrow, and Frank Tench, West Norwood, London, England, assignors, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a Corporation of Delaware

Original No. 1,705,834, dated March 19, 1929, Serial No. 732,355, August 16, 1924, and in Great Britain September 18, 1923. Renewed May 19, 1928. Application for reissue April 20, 1931. Serial No. 531,594

29 Claims. (Cl. 179—18)

1. In a multi-office telephone system employing register translators for translating the portions of telephone numbers indicative of the called offices, means in the register translators for translating the portion of telephone numbers indicative of the subscribers' lines in the called offices into combinations of impulse series and switching currents, a single wire circuit over which the switching currents are transmitted, and a two-wire circuit extending from the transmitter over which the impulse series are transmitted.



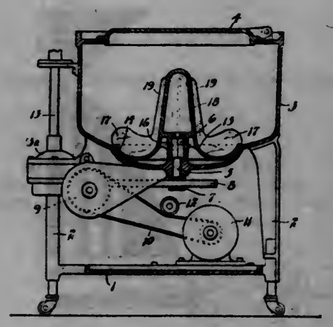
18,928

DOLLY FOR WASHING MACHINES

Cornelius C. Unruh, Freeman, S. Dak., assignor, by mesne assignments, to The Meadows Manufacturing Company, a Corporation of Maryland

Original No. 1,459,483, dated June 19, 1923, Serial No. 614,132, January 22, 1923. Application for reissue June 18, 1925. Serial No. 38,109

8 Claims. (Cl. 259—101)



1. A dolly for a washing machine adapted to be disposed in a liquid containing receptacle with its top portion well below the top of said receptacle comprising a dish-shaped member and a substantially cylindrical stem rising from and merging into the central portion thereof and terminating in an upper rounded end, said stem having spaced ribs extending vertically along its sides upwardly tapered throughout the length of said stem and extending outwardly across the dish-shaped member.

18,929
ROTARY FURNACE
Carl Paul Debuch, Frankfort-on-the-Main, Germany, assignor to American Largi Corporation, New York, N. Y., a Corporation of New York
Original No. 1,791,462, dated February 3, 1931, Serial No. 246,259, January 12, 1928, and in Germany December 20, 1920. Application for reissue February 27, 1932. Serial No. 596,391
7 Claims. (Cl. 263—33)



1. A furnace for treating ore comprising a rotary shell provided with gas inlets at points spaced longitudinally of the length of the shell and having a lining which is of gradually increasing thickness from a main reaction zone toward the discharge end of the furnace, whereby excess heat is conducted toward and accumulated in the zone adjacent said discharge end.

18,930
REFINING LEAD
Philip W. Davis, Cambridge, Mass.
No Drawing. Original No. 1,909,835, dated June 16, 1931, Serial No. 85,031, January 30, 1926. Renewed October 20, 1930. Application for reissue April 13, 1933. Serial No. 665,953
9 Claims. (Cl. 75—15)

1. The method of refining scrap storage battery plates which consists in introducing the scrap material into a furnace, heating the material in the furnace whereby the lead alloy and the lead oxides contained in the battery plates are melted in intimate contact with each other in small masses, and flow downward into the bottom of the furnace, continuing this heating process until a body of refined lead containing but a small percentage of antimony is collected, drawing off such purified lead thus recovered, introducing reducing material into the furnace, heating the contents to smelt the lead and antimony content of the lead oxides into a lead-antimony alloy comparatively high in antimony, and in drawing off the lead-antimony alloy thus produced.

DESIGNS

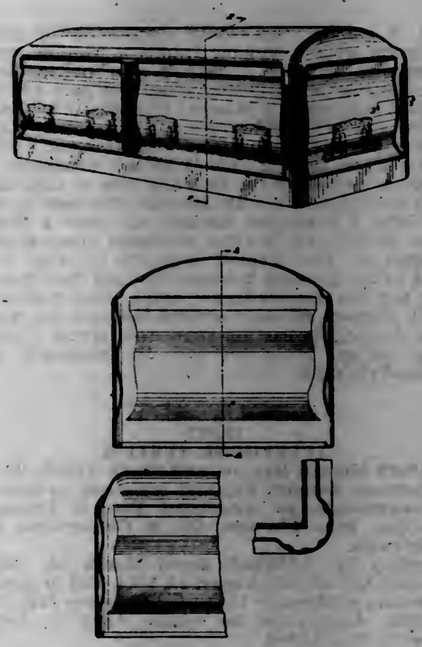
AUGUST 29, 1933

90,562
DESIGN FOR A CURTAIN OR THE LIKE
Max Sadinoff, Brooklyn, N. Y.
Application July 1, 1933. Serial No. 48,611
Term of patent 3½ years



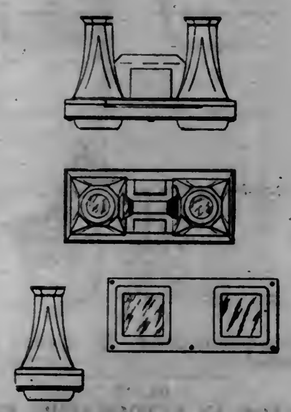
The ornamental design for a curtain or the like as shown and described.

90,563
DESIGN FOR A GRAVE VAULT OR SIMILAR ARTICLE
Allen F. Beck, Columbus, Ohio
Application June 8, 1933. Serial No. 48,343
Term of patent 14 years



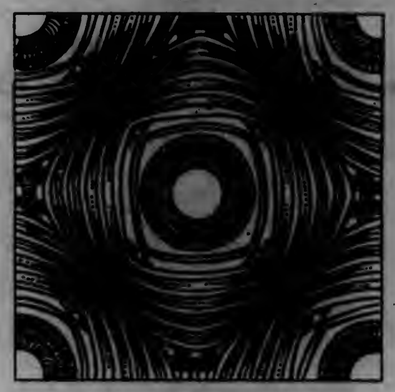
The ornamental design for a grave vault or similar article, as shown.

90,564
DESIGN FOR A STEREOSCOPE CASING
Joshua H. Bennett, Rock Island, Ill.
Application June 19, 1933. Serial No. 48,446
Term of patent 7 years



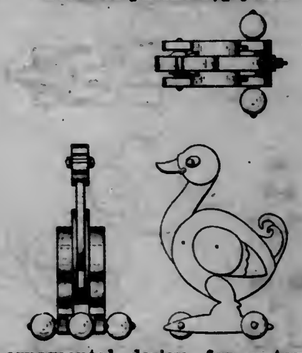
The ornamental design for a stereoscope casing, as shown.

90,565
DESIGN FOR A TEXTILE FABRIC
Julia Black, New York, N. Y., assignor to Cheney Brothers, New York, N. Y., a corporation of Connecticut
Application July 25, 1933. Serial No. 48,826
Term of patent 3½ years



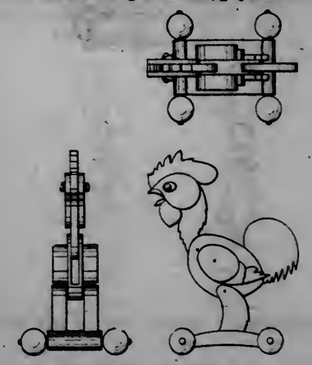
The ornamental design for a textile fabric, substantially as shown and described.

90,566
DESIGN FOR A TOY DUCK
Ralph H. Breding, Detroit, Mich.
Application January 25, 1933. Serial No. 46,980
Term of patent 3½ years



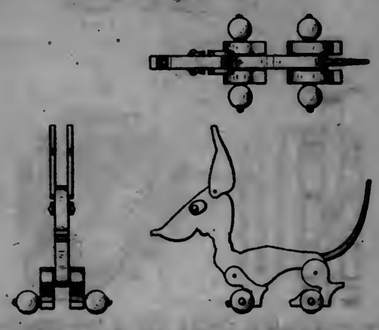
The ornamental design for a toy duck as shown.

90,567
DESIGN FOR A TOY ROOSTER
Ralph H. Breding, Detroit, Mich.
Application January 25, 1933. Serial No. 46,981
Term of patent 3½ years



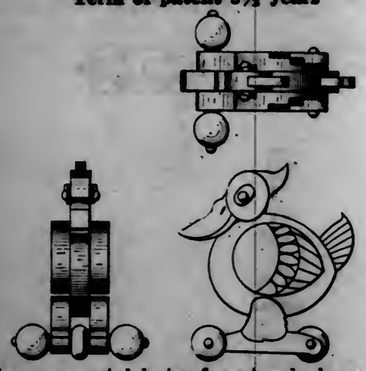
The ornamental design for a toy rooster as shown.

90,568
DESIGN FOR A TOY DOG
Ralph H. Breding, Detroit, Mich.
Application January 25, 1933. Serial No. 46,982
Term of patent 3½ years



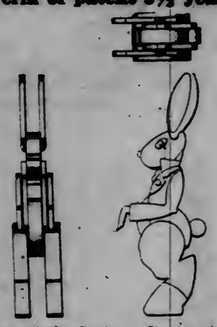
The ornamental design for a toy dog as shown.

90,569
DESIGN FOR A TOY DUCK
Ralph H. Breding, Detroit, Mich.
Application February 8, 1933. Serial No. 47,146
Term of patent 3½ years



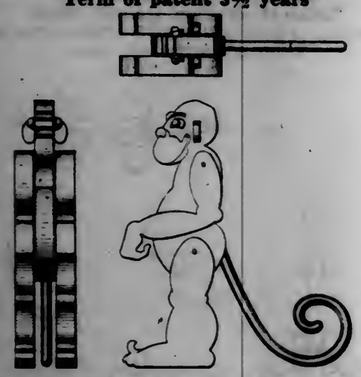
The ornamental design for a toy duck, as shown.

90,570
DESIGN FOR A TOY RABBIT
Ralph H. Breding, Detroit, Mich.
Application January 25, 1933. Serial No. 46,983
Term of patent 3½ years



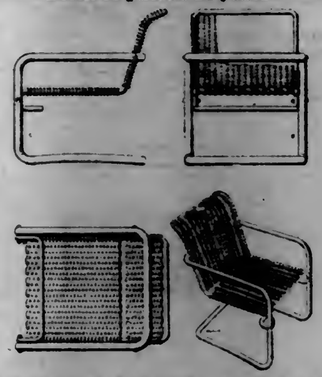
The ornamental design for a toy rabbit, as shown.

90,571
DESIGN FOR A TOY MONKEY
Ralph H. Breding, Detroit, Mich.
Application February 8, 1933. Serial No. 47,147
Term of patent 3½ years



The ornamental design for a toy monkey, as shown.

90,572
DESIGN FOR A CHAIR
Robert B. Brown, Great Neck, N. Y., assignor to American Manufacturing Company, Brooklyn, N. Y., a corporation of Massachusetts
Application December 27, 1932. Serial No. 46,629
Term of patent 14 years



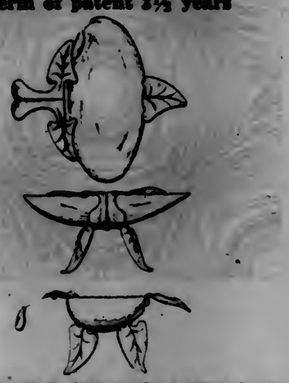
The ornamental design for a chair as shown and described.

90,573
DESIGN FOR AN AUTOGRAPHIC REGISTER
Robert Davol Budlong, Chicago, Ill., assignor to United Autographic Register Co., Chicago, Ill., a corporation of Illinois
Application May 11, 1933. Serial No. 48,031
Term of patent 14 years



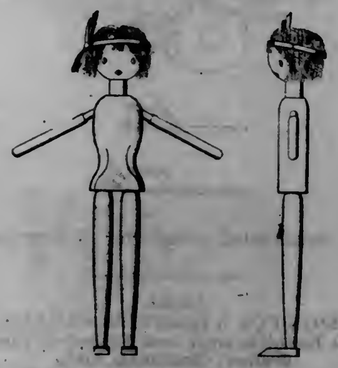
The ornamental design for an autographic register, substantially as shown.

90,574
DESIGN FOR AN ASH TRAY
Joseph Dal Maso, Washington, D. C.
Application July 5, 1933. Serial No. 48,640
Term of patent 3½ years



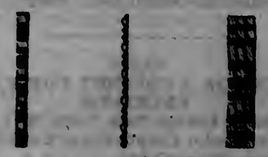
The ornamental design for an ash tray, as shown.

90,575
DESIGN FOR A DOLL
Ray Dumont, New York, N. Y.
Application June 1, 1933. Serial No. 48,255
Term of patent 3½ years



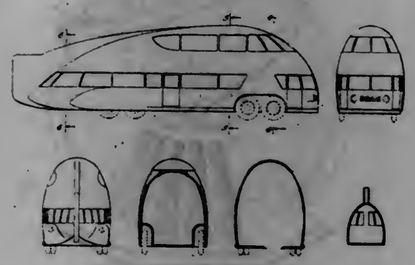
The ornamental design for a doll substantially as shown.

90,576
DESIGN FOR A FABRIC
Joseph Erkes, Philadelphia, Pa., assignor to Collins & Aikman Corporation, Philadelphia, Pa., a corporation of Delaware
Application May 8, 1933. Serial No. 48,039
Term of patent 14 years



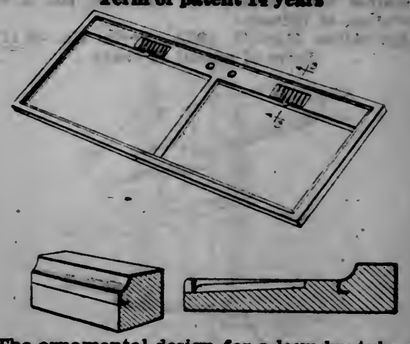
The ornamental design for a fabric as shown and described.

90,577
DESIGN FOR AN AUTOMOTIVE VEHICLE
Norman Bel Geddes, New York, N. Y.
Application December 3, 1932. Serial No. 46,300
Term of patent 14 years



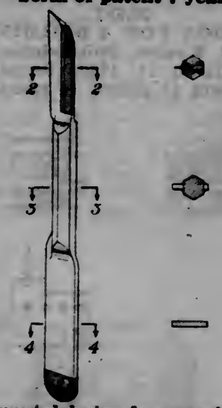
The ornamental design for an automotive vehicle substantially as shown.

90,578
DESIGN FOR A LAUNDRY TUB RIM
Robert S. Grogan, Chicago, Ill.
Application July 8, 1933. Serial No. 48,663
Term of patent 14 years



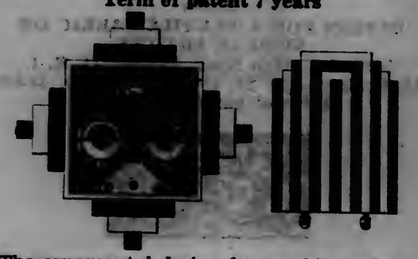
The ornamental design for a laundry tube rim as shown.

90,579
DESIGN FOR A COMBINATION SURGICAL INSTRUMENT
Annie Hall and Leonard Diamond, Harpurhey, Manchester, England
Application May 27, 1933, Serial No. 48,227, and in Great Britain and Ireland April 3, 1933
Term of patent 7 years



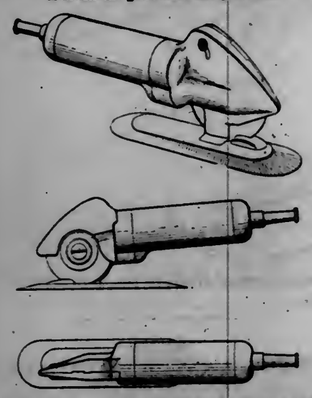
The ornamental design for a combination surgical instrument as shown.

90,580
DESIGN FOR A CABINET
George R. Hogan, Chicago, Ill.
Application December 29, 1932. Serial No. 46,648
Term of patent 7 years



The ornamental design for a cabinet as shown and described.

90,581
DESIGN FOR A PORTABLE ELECTRIC CUTTING MACHINE
Ivar Jeppesen, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois
Application May 27, 1933. Serial No. 48,221
Term of patent 14 years



The ornamental design for a portable electric cutting machine, substantially as shown and described.

90,582
DESIGN FOR A BUILDING
Solis D. Kaplan, Philadelphia, Pa.
Application March 14, 1933. Serial No. 47,451
Term of patent 14 years



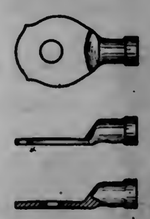
The ornamental design for a building as shown.

90,583
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Gilbert Morton King, Pawtucket, R. I.
Application July 25, 1933. Serial No. 48,830
Term of patent 3½ years



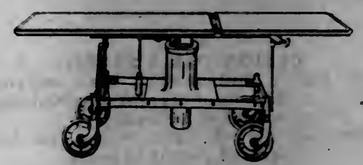
The ornamental design for a textile fabric or similar article, as shown.

90,584
DESIGN FOR A TERMINAL
Louis A. Koch, Jr., Louisville, Ky.
Application July 7, 1933. Serial No. 44,273
Term of patent 14 years



The ornamental design for a terminal, as shown.

90,585
DESIGN FOR A HOSPITAL CARRIAGE
Frank Koenigkramer and Frederick Koenigkramer, Cincinnati, Ohio
Application October 25, 1932. Serial No. 45,579
Term of patent 14 years



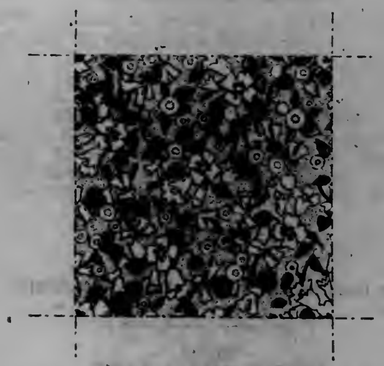
The ornamental design for a hospital carriage, as shown.

90,586
DESIGN FOR A CABINET FOR RADIO-RECEIVER
Raymond G. F. Locwy, New York, N. Y., assignor to Colonial Radio Corporation, Buffalo, N. Y., a corporation of New York
Application June 24, 1933. Serial No. 48,524
Term of patent 14 years



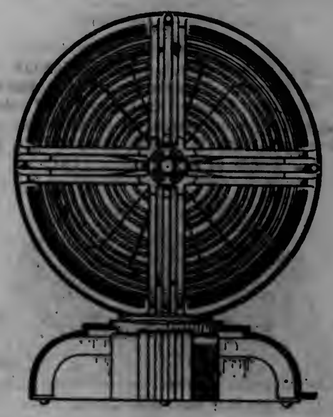
The ornamental design for a cabinet for radio-receiver substantially as shown and described.

90,587
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
John J. Maibach, New York, N. Y., assignor to Montgomery Ward & Company, New York, N. Y.
Application November 4, 1932. Serial No. 45,729
Term of patent 3½ years



The ornamental design for a textile fabric or similar article as shown and described.

90,588
DESIGN FOR AN ELECTRIC FAN
William V. Matthews, McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application January 6, 1933. Serial No. 46,747
Term of patent 7 years



90,588—Continued



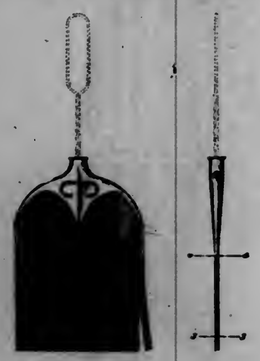
The ornamental design for an electric fan substantially as shown.

90,589
DESIGN FOR A CAMERA CASING
Joseph Mihalyi, Rochester, and Walter D. Teague, New York, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application June 24, 1933. Serial No. 48,528
Term of patent 7 years



The ornamental design for a camera casing as shown and described.

90,590
DESIGN FOR A FLY SWATTER
Stanley G. Monroe and Frank Shepherd, Akron, Ohio
Application June 28, 1933. Serial No. 48,580
Term of patent 14 years



The ornamental design for a fly swatter as shown.

90,591
DESIGN FOR A CONFECTION
Mildred G. O'Leary, Spokane, Wash.
Application April 25, 1933. Serial No. 47,894
Term of patent 7 years



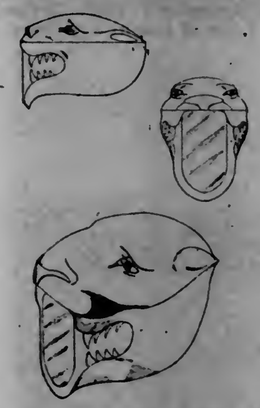
The ornamental design for a confection, substantially as shown.

90,592
DESIGN FOR A STICK OF CHEWING GUM
Conrad E. Peterson, Malden, Mass.
Application December 22, 1932. Serial No. 46,362
Term of patent 3½ years



The ornamental design for a stick of chewing gum, substantially as shown.

90,593
DESIGN FOR A HEADLIGHT
John Pacunas, Los Angeles, Calif.
Application May 31, 1933. Serial No. 48,251
Term of patent 3½ years



The ornamental design for a headlight, as shown.

90,594
DESIGN FOR A LAMP
Louis M. Schnitzer, New York, N. Y., assignor to Empire Silver & Chrome Corp., New York, N. Y., a corporation of New York
Application June 19, 1933. Serial No. 48,442
Term of patent 3½ years



The ornamental design for a lamp as shown.

90,595
DESIGN FOR A LAMP SHADE
Eugene Schwarz, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a corporation of Illinois
Application June 19, 1933. Serial No. 48,449
Term of patent 3½ years



The ornamental design for a lamp shade, substantially as shown and described.

90,596
DESIGN FOR A LAMP SHADE
Eugene Schwarz, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a corporation of Illinois
Application June 19, 1933. Serial No. 48,450
Term of patent 3½ years



The ornamental design for a lamp shade, substantially as shown and described.

90,597
DESIGN FOR A LAMP SHADE
Eugene Schwarz, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a corporation of Illinois
Application June 19, 1933. Serial No. 48,451
Term of patent 3½ years



The ornamental design for a lamp shade, substantially as shown and described.

90,598
DESIGN FOR A LAMP SHADE
Eugene Schwarz, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a corporation of Illinois
Application June 19, 1933. Serial No. 48,452
Term of patent 3½ years



The ornamental design for a lamp shade, substantially as shown and described.

90,599
DESIGN FOR A LAMP SHADE
Eugene Schwarz, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a corporation of Illinois
Application June 19, 1933. Serial No. 48,454
Term of patent 3½ years



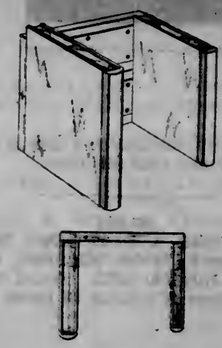
The ornamental design for a lamp shade, substantially as shown and described.

90,600
DESIGN FOR A LAMP SHADE
Eugene Schwarz, Alexandria, Ind., assignor to The Mantle Lamp Company of America, Chicago, Ill., a corporation of Illinois
Application June 19, 1933. Serial No. 48,455
Term of patent 3½ years



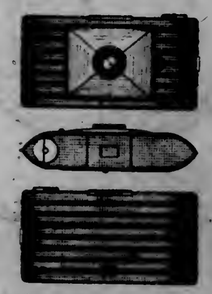
The ornamental design for a lamp shade, substantially as shown and described.

90,601
DESIGN FOR A BOOK SUPPORT
Charles L. Sonquest, Portland, Oreg.
Application September 21, 1932. Serial No. 45,009
Term of patent 14 years



The ornamental design for a book support, as shown.

90,602
DESIGN FOR A CAMERA CASING
Walter D. Teague, New York, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New York
Application June 24, 1933. Serial No. 48,527
Term of patent 7 years



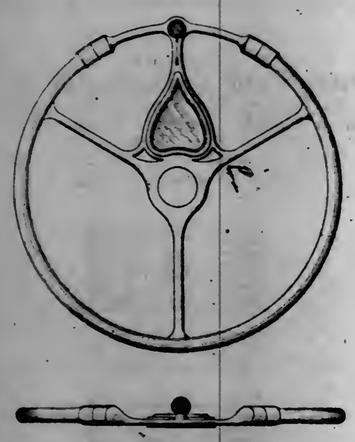
The ornamental design for a camera casing as shown and described.

90,603
DESIGN FOR A TEXTILE FABRIC
August Von Eisenbarth, New York, N. Y., assignor to Ameritex-Sudamette, Div. of Cohn-Hall-Marx Company, New York, N. Y., a corporation of New York
Application July 27, 1933. Serial No. 48,842
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

90,604
DESIGN FOR A STEERING WHEEL
William E. Webb, Minneola, Fla.
Application July 18, 1933. Serial No. 48,753
Term of patent 14 years



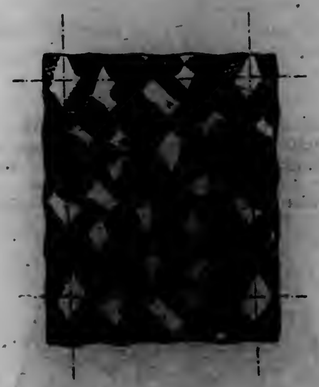
The ornamental design for a steering wheel, as shown.

90,605
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y.
Application September 29, 1932. Serial No. 45,136
Term of patent 3½ years



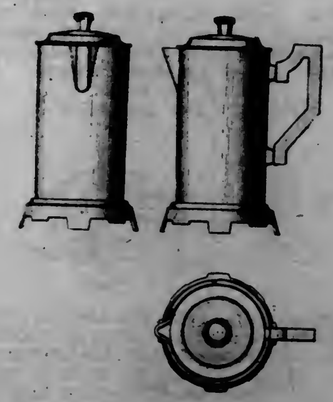
The ornamental design for a textile fabric or similar article as shown and described.

90,606
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
William Willheim, New York, N. Y.
Application December 19, 1932. Serial No. 46,482
Term of patent 3½ years



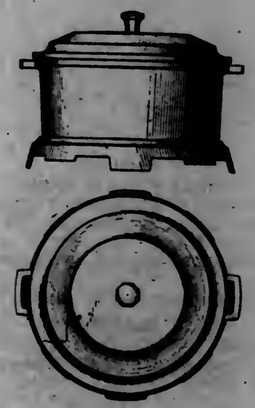
The ornamental design for a textile fabric or similar article as shown and described.

90,607
DESIGN FOR A COFFEEPOT OR SIMILAR ARTICLE
Philip E. Willman, Chicago, Ill.
Application March 24, 1933. Serial No. 47,563
Term of patent 7 years



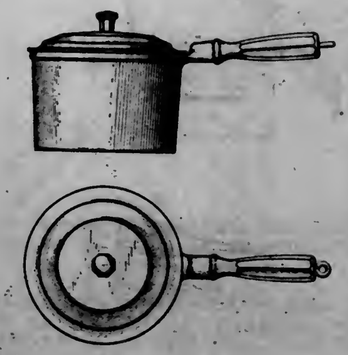
The ornamental design for a coffeepot or similar article, substantially as shown.

90,608
DESIGN FOR A COMBINED CASSEROLE AND BASE THEREFOR
Philip E. Willman, Chicago, Ill.
Application March 24, 1933. Serial No. 47,565
Term of patent 7 years



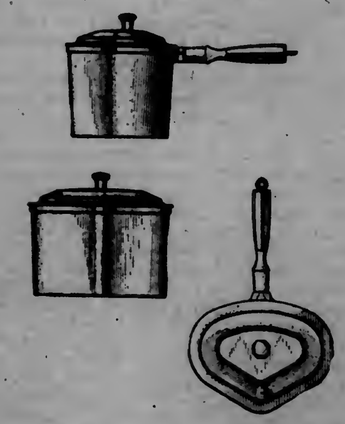
The ornamental design for a combined casserole and base therefor, substantially as shown.

90,609
DESIGN FOR A SAUCEPAN OR SIMILAR ARTICLE
Philip E. Willman, Chicago, Ill.
Application March 24, 1933. Serial No. 47,566
Term of patent 7 years



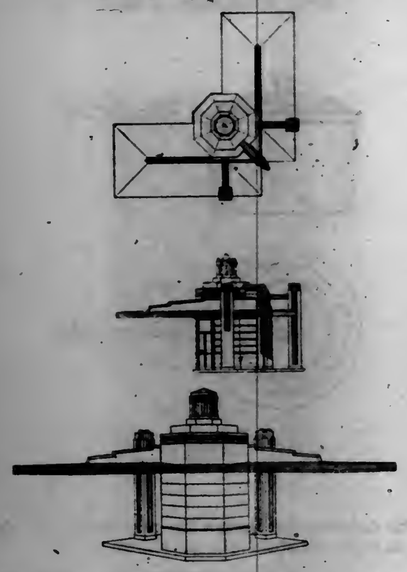
The ornamental design for a saucepan or similar article, substantially as shown.

90,610
DESIGN FOR A SAUCEPAN OR SIMILAR ARTICLE
Philip E. Willman, Chicago, Ill.
Application March 24, 1933. Serial No. 47,568
Term of patent 7 years



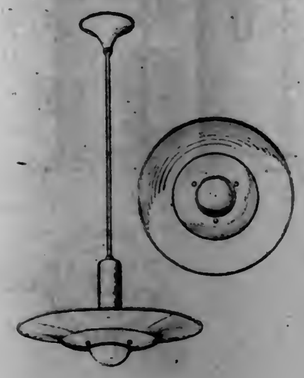
The ornamental design for a saucepan or similar article, substantially as shown.

90,611
DESIGN FOR A SERVICE STATION
Herbert O. Alden, Oakland, Calif., assignor to Shell Oil Company, San Francisco, Calif., a corporation of California
Application March 25, 1933. Serial No. 47,583
Term of patent 14 years



The ornamental design for a service station as shown.

90,612
DESIGN FOR A LIGHTING FIXTURE
Theodore L. Howell, New York, N. Y., assignor to Kurt Versen, New York, N. Y.
Application December 29, 1932
Serial No. 46,651
Term of patent 3½ years

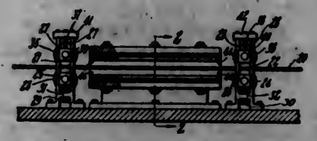


The ornamental design for a lighting fixture substantially as shown.

PATENTS

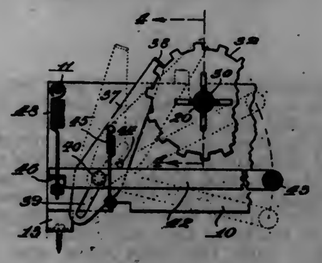
GRANTED AUGUST 29, 1933

1,924,687
METHOD AND MEANS FOR MEASURING AND INDICATING PROPERTIES OF CONDUCTORS
Albert Allen, Winchester, Mass., assignor to Atlantic Precision Instrument Company, Malden, Mass., a Corporation of Massachusetts
Application September 20, 1931
Serial No. 565,290
12 Claims. (Cl. 175—183)



1. The method of measuring a property of electro-conducting material, which comprises relating such material spaced from a condenser plate in a manner to cause the capacity of the condenser comprising said material, and plate, to be dependent on the amount of such property, and indicating such capacity in terms of such property.

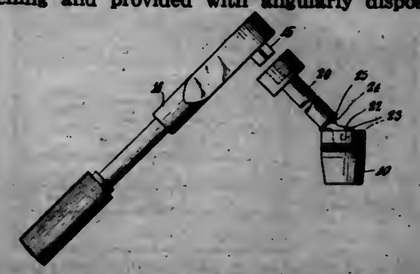
1,924,688
ROLL PAPER HOLDER
Hardy Bowles and James W. McClintock, Los Angeles, Calif., assignors to E-Z Reach Paper Cutter Corporation, Ltd., Los Angeles, Calif., a Corporation of California
Application March 25, 1930. Serial No. 438,736
5 Claims. (Cl. 242—55.5)



1. In a roll paper holder, a frame, a roll paper carrying spindle journaled in said frame, ratchet wheels on said spindle and spring held detents mounted for pivotal and sliding movement on said frame and which detents engage said ratchet wheels.

1,924,689
EXTENSION FOR SOCKET WRENCHES
George Frederick Croessant, Wyomissing, Pa.
Application January 8, 1932. Serial No. 585,516
2 Claims. (Cl. 81—177)

2. A socket wrench comprising a socket member provided with an opening the imperforate bounding-wall of which is formed with oppositely located grooves extending from adjacent the outer end of said opening to provide ribs extending longitudinally thereof; and an extension member having a spherical head freely enterable in said opening and provided with angularly disposed



pairs of diametrically projecting pins on said head for engaging said ribs to connect said members.

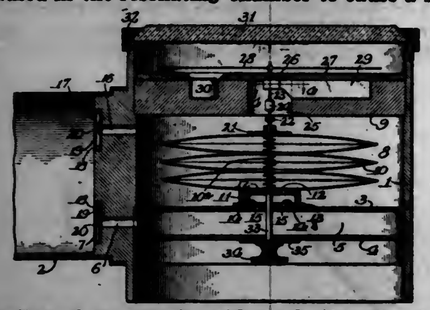
1,924,690
MONO-MOLECULAR CONDENSATION PRODUCT OF 1.4.5.8 - NAPHTHALENE - TETRACARBOXYLIC ACID AND A PROCESS OF PREPARING IT
Wilhelm Eckert and Otto Braunsdorf, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware
No Drawing. Application August 21, 1931, Serial No. 558,632, and in Germany September 5, 1930
7 Claims. (Cl. 260—44)

1. The process which comprises condensing a salt of 1.4.5.8-naphthalene-tetracarboxylic acid, which contains in 1.8-position two free carboxylic acid group, with a compound of the type $R—NH_2$, wherein R represents an aryl group of the carbocyclic series which may contain substituents of the group consisting of amino, alkyl, alkoxy and halogen.

1,924,691
SOUND METER
Bert E. Eisenhour, Aurora, Ill., assignor of one-half to George Fabyan, Geneva, Ill.
Application June 24, 1929. Serial No. 373,207
1 Claim. (Cl. 73—151)

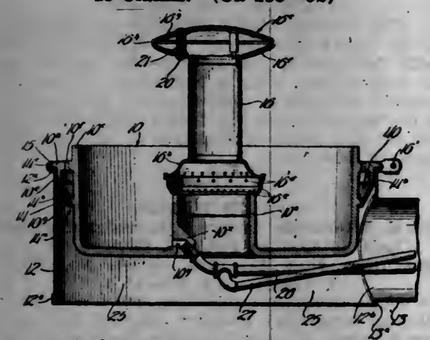
A sound pressure indicating device comprising a hollow expansible member adapted to expand upon increase of pressure of the medium therein, a sound medium condensation chamber having communication with the interior of said expansible members and operable for the accumulation therein of sound medium under pressure and for conducting said medium into said expansible member to increase the pressure of the medium therein and to cause said expansible member to expand, a rarefaction chamber enclosing said expansible member such that the rarefaction of sound medium in said rarefaction chamber acts upon the exterior of said expansible member to allow an expansion of said expansible member, a sound resonating chamber having communications with said condensation chamber and said rarefaction chamber, valves between said resonating chamber and said condensation and rarefaction chambers and being so operable that the valve between the resonating chamber and the condensation chamber acts to permit the passage of condensed sound medium from said resonating chamber to said condensation chamber to increase the pressure of the medium therein

and in said expansible member, and the valve between the resonating chamber and the rarefaction chamber acts to permit the passage of the medium from the rarefaction chamber to the resonating chamber by the rarefactions caused in the resonating chamber to cause a re-



duction of pressure in said rarefaction chamber and exteriorly of said expansible member for the expansion of said expansible member, and indicating means connected to and operable by said expansible member when expanded to indicate the pressure of the sound produced in the medium in said resonating chamber.

1,924,092
OIL BURNER HEAD
Augustus J. Frame, Columbus, Ohio, assignor to Franklin Oil Heating, Inc., Columbus, Ohio, a Corporation of Ohio
Application September 13, 1929
Serial No. 392,367
15 Claims. (Cl. 158—92)



1. In apparatus of the class described, a bowl having an apertured flange projecting outwardly therefrom, a casing surrounding and spaced from said bowl, an apertured partition beneath and co-acting with said flange and the wall of said bowl to form a reduction chamber, means for supplying air under pressure to said casing, and means to secure said casing and partition to said flange.

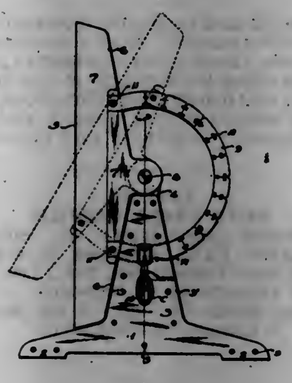
1,924,093
FILM REEL FOR CINEMATOGRAPH APPARATUS
Leo Goldhammer and Ferdinand Stiefenhofer, Munique, Germany, assignors to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York
Application September 17, 1931, Serial No. 563,442, and in Germany September 29, 1930
3 Claims. (Cl. 242—70)

1. A film reel for cinematograph apparatus comprising two flanges and a hub holding together said flanges, in said hub a core, fastly connected to said core a flange, a disc in said hub on the



core, and a pressure spring between said flange and said disc and pressing both elements against the flanges of the reel.

1,924,094
DRAWING INSTRUMENT
John H. Graham, Spokane, Wash.
Application December 16, 1931
Serial No. 581,318
1 Claim. (Cl. 33—75)

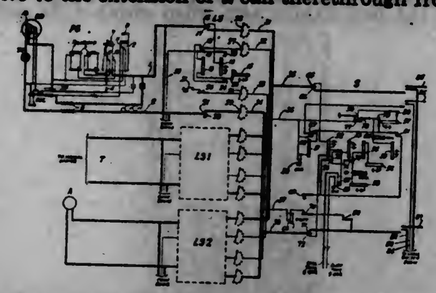


The combination with a base having a straight edge and a post perpendicular thereto, said post having a slot therethrough and a pivot head of reduced thickness on the post, of a straight-edge blade of substantially the same thickness as the base and post, said blade having spaced perforated flanges between which said head fits a pivot-screw joining said head and flanges, a sector of less thickness than and rigid with the blade concentric with the pivot-screw and movable through said slot, and co-acting means on the post and sector for securing the blade in adjusted position.

1,924,095
TELEPHONE SYSTEM
Morris E. Griffins, Chicago, Ill., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a Corporation of Delaware
Application February 12, 1932. Serial No. 592,455
12 Claims. (Cl. 179—27)

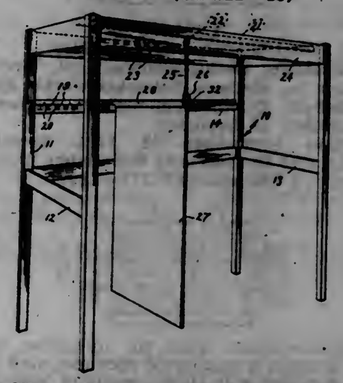
1. In a telephone system, a repeater, a trunk terminating in the repeater, means for extending calls from lines of a plurality of classes over said trunk and through said repeater, means for answering the calls, means in the repeater normally effective to reverse the direction of current flow over the trunk responsive to the answering of a

call, and means in the repeater operated responsive to the extension of a call therethrough from



a line of one of said classes for preventing the operation of said last means.

1,924,096
FILING RACK
Ethel Benjamin Adams, Catonsville, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York
Application July 21, 1931. Serial No. 552,150
3 Claims. (Cl. 211—46)



3. A filing rack comprising a supporting frame, a plurality of holders for suspending sheet materials slotted at each end, a channel member carried by said supporting frame for removably and pivotally supporting one of the slotted ends of each of said holders, and flexible members for removably suspending the opposite slotted ends of each of said holders.

1,924,097
ALLOY
Julius Aderer, New York, N. Y.
No Drawing. Application June 2, 1933. Serial No. 674,645
7 Claims. (Cl. 75—1)

1. An alloy constituted of approximately 30 to 40 parts gold, approximately 35 to 50 parts palladium, approximately 10 to 23 parts silver, approximately 4 to 20 parts copper, and approximately 2 to 6 parts zinc.

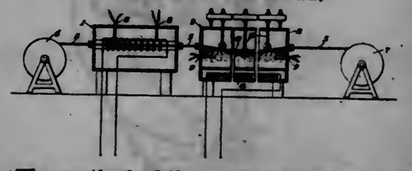
1,924,098
FRUIT GRADER AND CLEANER
George G. Bates, Kingston, N. Y.
Application January 30, 1932. Serial No. 589,787
2 Claims. (Cl. 146—193)

1. A combined cleaning and grading machine, comprising a feeding unit having means for rough cleaning, a conveyor mounted adjacent the same to receive and elevate the fruit, a cleaning unit mounted adjacent the upper end of said conveyor and comprising two spaced endless belts, one above the fruit and one below the fruit and in contact therewith and means for operating the same, a grading unit mounted adjacent the delivery of said cleaning unit, and a polishing



means mounted above said grading unit and comprising an endless belt of polishing material to travel in contact with the fruit, a series of padded receiving trays mounted under said grading unit, each of said trays formed with an opening in the front thereof, a combined spout and door hinged to the front adjacent the opening to either close said opening or act as a delivery spout for the receiving trays.

1,924,099
THERMALLY HARDENING STEEL
Edgar C. Bain, Short Hills, and Edmund S. Davenport, Newark, N. J., assignors to United States Steel Corporation, New York, N. Y., a Corporation of New Jersey
Application November 20, 1931
Serial No. 576,398
11 Claims. (Cl. 148—21)

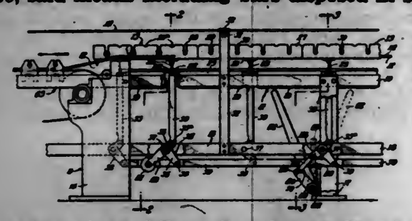


1. The method of thermally hardening carbon and allow steels which comprises quenching the same from a temperature above the critical temperature range to a temperature below the temperature of rapid pearlite formation but above that at which rapid conversion of austenite to martensite is obtained, and in thereafter maintaining the quenched steel at a temperature above the temperature of rapid martensite formation and below the temperature of rapid pearlite formation for a time interval sufficient to obtain substantial conversion of the austenite to crystal structures other than pure martensite characteristic for the temperature of heat treatment and then cooling to atmospheric temperatures.

1,924,100
DRIER
Charles P. Barker, Glencoe, Ill., assignor to Container Corporation of America, Chicago, Ill., a Corporation of Delaware
Application January 9, 1931. Serial No. 507,600
4 Claims. (Cl. 34—43)

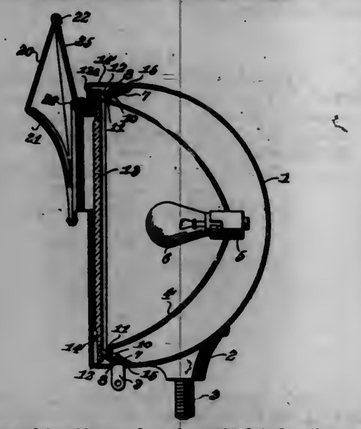
3. A drier comprising a unit having a plurality of heating surfaces over which a strip of sheet material to be dried is adapted to travel, pressure mechanism arranged above said heating surfaces adapted to maintain the sheet in contact therewith, said unit having a plurality of laterally extending spaced openings separating said heating surfaces, and means associated with the pressure mechanism for lifting said pressure mecha-

nism and said sheet away from the heating surface, said means including bars disposed in said



spaced openings of the unit and normally adapted to lie with their upper edges flush or slightly below the surface of said unit.

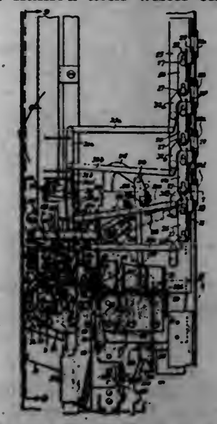
1,924,101
HEADLIGHT ATTACHMENT
Eugene Batrack and Joseph F. Fantauzzo, Rochester, N. Y.
Application March 19, 1932. Serial No. 599,974
2 Claims. (Cl. 240—8.4)



1. The combination of a headlight having a lens and a bezel ring for holding the lens in place, said ring having a flange, a molding having a groove therein adapted to engage with said flange, a crescent shaped reflector having its ends attached to said molding, a groove on the upper edge of said reflector, a groove on the outer edge of said molding, said reflector sloping down and forwardly, said reflector being adapted to intercept some of the direct rays of light and throw them rearwardly over the headlight, a colored transparent medium supported between said two last named grooves and transmitting light rearwardly from said headlights.

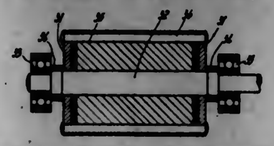
1,924,102
VENDING MACHINE
Harry S. Benjamin, Utica, N. Y.
Application April 16, 1931. Serial No. 530,579
15 Claims. (Cl. 194—1)

1. In a vending machine, a housing having a coin slot, a coin chute communicating therewith, a deflector adapted to enter said chute and divert a coin therefrom, a magazine in said housing, vending mechanism in said housing, a weight adapted to rest upon a stack of packages in said magazine, an arm engageable by said weight when said magazine is empty, means adapted to be moved by the insertion of a coin in said slot, an arm adapted to be swung by said means, a finger carried by the last named arm, a rocker adapted to be swung into the path of said finger by the first named arm when engaged by said



weight, and means operable by said finger when engaging said rocker, for moving said deflector into said chute.

1,924,103
SQUIRREL-CAGE ROTOR
Eelco Bisschop, Berlin-Siemensstadt, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany
Application September 22, 1931, Serial No. 564,321, and in Germany September 29, 1930
2 Claims. (Cl. 172—120)

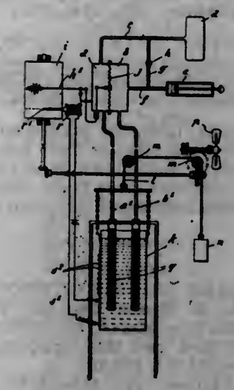


1. A short-circuit rotor for induction motors having a shaft, a laminated core mounted thereon and provided with slots, conductor bars in said slots and short-circuit disks fixed to said bars and disposed at the ends of said core to hold its laminations tightly together, a ball bearing fixed on each shaft end and a spacing collar between each bearing and the adjacent short-circuiting disk for locking said disks against axial movement on said shaft to prevent longitudinal deformations of the conductor bars due to vibratory forces in the direction of the rotor axis occurring during the motor operation.

1,924,104
MANOMETRIC APPARATUS
Georges Charles Bouilitte, Paris, France
Application March 12, 1932, Serial No. 598,452, and in Belgium July 2, 1931
4 Claims. (Cl. 234—5.7)

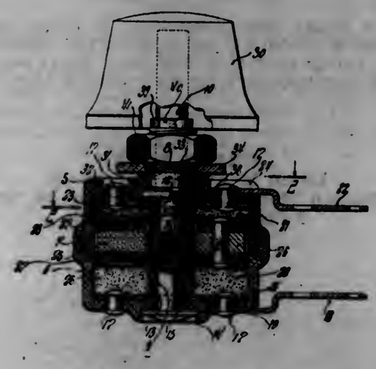
1. In an apparatus for measuring oscillating pressures, an enclosure, a diaphragm dividing the enclosure into at least two chambers, means for initially subjecting the opposite sides of the diaphragm to uniform pressures of a gaseous medium, means for communicating oscillating pressures through the gaseous medium to the diaphragm, means connected to the diaphragm to visibly translate movements thereof, and means for progressively and uniformly varying the gaseous pressure on opposite sides of the diaphragm,

including conduits communicating with the chambers and a receptacle containing a liquid in which the ends of the conduits are immersed, the



receptacle and the ends of the conduits being relatively movable whereby the hydrostatic pressure of the liquid with respect to the ends of the conduits is varied.

1,924,105
ELECTRICAL RESISTOR
Harry L. Bradley, Milwaukee, Wis., assignor, by mesne assignments, to Allen-Bradley Company, Milwaukee, Wis., a Corporation of Wisconsin
Application June 24, 1929. Serial No. 373,399
11 Claims. (Cl. 201—56)



1. In a potentiometer of the character described, a casing comprising axially aligned sections, a compressible resistor element in each section, a pressure member separating the resistor elements, a member extending through both sections to secure the same against separation, and means whereby said second member serves to actuate the pressure member to simultaneously and inversely vary the resistance of the resistor elements.

1,924,106
SUBMARINE CABLE LOADING COIL
Oliver E. Buckley, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application July 25, 1930. Serial No. 470,648
3 Claims. (Cl. 178—46)

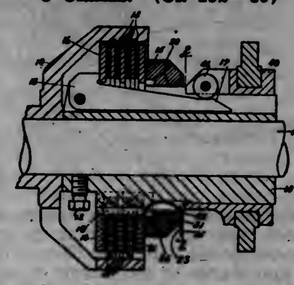


1. A protective metallic housing for a submarine cable loading coil comprising a material of high electric conductivity and a material having high tensile strength.

1,924,107
ZINC CHLORATE WEEDKILLER
Ralph N. Chipman, Bound Brook, N. J., assignor to Chipman Chemical Company, Inc., Bound Brook, N. J., a Corporation of New York
No Drawing. Application March 28, 1931
Serial No. 526,137
7 Claims. (Cl. 167—45)

3. A normally-dry weed killing powder characterized by a pronounced property for deliquescing at normal temperature and humidity and by an acrid taste repellent to cattle and but little corrosive to iron which consists of a small quantity of an acid salt and considerable amounts of dry zinc chloride and dry sodium chlorate.

1,924,108
CLUTCH
Alfred A. Conway, Cincinnati, Ohio
Application February 20, 1930. Serial No. 429,903
5 Claims. (Cl. 192—69)

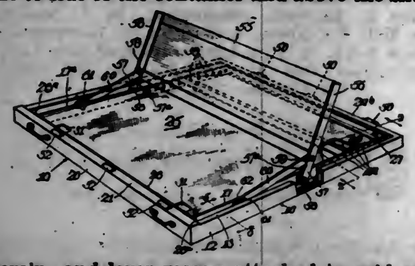


5. In a clutch, a pair of cooperating clutch elements, one of said elements comprising a pair of relatively movable members for taking up wear on the clutch elements, one of the movable members being provided with notches, and a strip-like spring clip, attached to the other of said movable members and having the attached portions thereof enclosed by said first movable member, said clip projecting outwardly of the first movable member and adapted to releasably engage and substantially fill one of said notches for locking said movable members in adjusted positions relative to one another.

1,924,109
CONTAINER FOR RELATIVELY LARGE SHEETS
Harold L. De Lisle, Chicago, Ill.
Application August 1, 1928. Serial No. 296,695
8 Claims. (Cl. 129—26)

2. An open-top container for relatively large sheets having mounted to swing upward and downward therein a sheet-lifting device compris-

ing a sheet support extending substantially from side to side of the container and above the sheets



therein, and lever means attached to said support and adapted to elevate the support bodily when the support is swung upward.

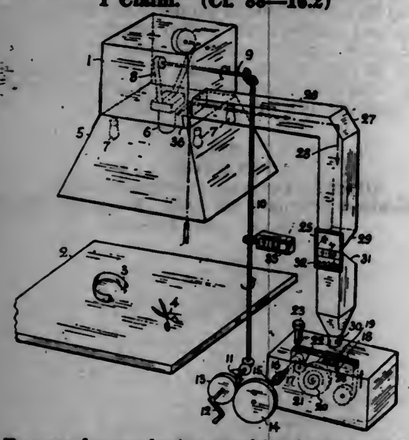
1,924,110

METHOD OF PRODUCING AND REPRODUCING FILMS FOR THE REPRODUCTION OF PICTURE FILMS IN COMBINATION WITH SOUND FILMS (TALKING FILMS)

Einar Dessau, Copenhagen, Denmark

Application September 19, 1928, Serial No. 306,897, and in Germany June 17, 1927

1 Claim. (Cl. 88—16.2)



Process for producing combined sound and motion pictures from an existing strip of photographic sound record and from objects the various forms and stages of movement of which are photographed to be reproduced in synchronism with predetermined portions of said sound strip, which process comprises normally and slowly reproducing said sound strip, studying and noting during said reproduction the nature and position of sound characters of the sound strip that represent recorded sounds corresponding to which pictures of said objects in various forms and positions are to be prepared, preparing information based on said study identifying the nature and location of said sound characters with which the various forms and positions of said objects are to be synchronized, discontinuously feeding said sound strip while simultaneously discontinuously feeding a photographic film through a photographic camera, giving the objects in proper sequence the forms and positions they must assume with respect to the different identified sound characters in accordance with said information and photographically recording picture by picture the objects in said different forms and positions whereby a picture record synchronized with said sound strip is produced.

1,924,111

METHOD FOR STEMMING GRAPES

Arvid M. Erickson, San Jose, Calif., assignor to Barron-Gray Packing Company, San Jose, Calif., a Corporation of California

Application May 24, 1932. Serial No. 613,242

5 Claims. (Cl. 146—219)



1. A method of stemming grapes and like fruit which comprises the steps of first subjecting the fruit to a jigging motion while in contact with coarse fabric surfaces, and then subjecting the fruit to horizontal agitation while on a perforate surface.

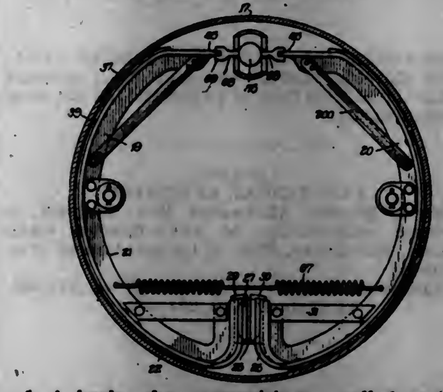
1,924,112

BRAKE CONSTRUCTION

Edwin R. Evans, Chicago, Ill.

Original application March 30, 1928, Serial No. 265,884. Divided and this application March 16, 1931. Serial No. 522,835

5 Claims. (Cl. 188—250)



1. A brake shoe comprising a rolled section having a cylindrical lining receiving flange and an inwardly extending web, both flange and web being bent back to form an actuating face.

1,924,113

BRAKE SHOE

Edwin R. Evans, Chicago, Ill.

Application March 20, 1931. Serial No. 524,011

2 Claims. (Cl. 188—250)



1. A brake shoe comprising a unitary rolled section having a cylindrical flange and an inwardly extending web, a continuous portion of the flange integrally connected to the web throughout its extent being bent inwardly to form a cam contact face, the web being of a depth substantially equal to the depth of the inwardly extending flange and directly supporting said flange.

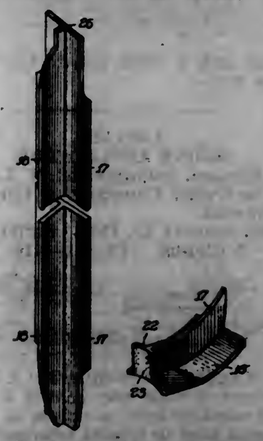
1,924,114

METHOD OF MAKING BRAKE SHOES

Edwin R. Evans, Chicago, Ill.

Original application March 20, 1931, Serial No. 524,011. Divided and this application March 18, 1932. Serial No. 599,625

4 Claims. (Cl. 29—152.1)



1. The method of making a brake shoe which comprises cutting a rolled section to the required length, said section having a flat face and a rearwardly extending reinforcing web, trimming excess metal from the end portions of the web, bending the section to arcuate form, and bending inwardly a portion of the flange and web to form an approximately radial cam face.

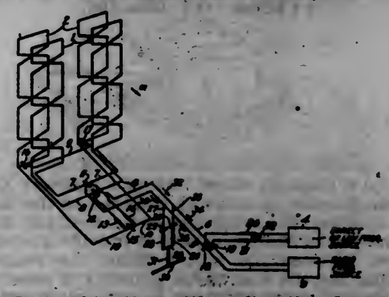
1,924,115

PROTECTIVE MEANS FOR ELECTRICAL SYSTEMS

Enoch B. Ferrell, Eaton Town, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York

Application April 8, 1930. Serial No. 442,483

12 Claims. (Cl. 250—11)



3. In combination with a directional receiving antenna system comprising an exciter and a reflector, a conductor connecting said exciter to ground, a second conductor connecting said reflector to ground, said conductors having a length substantially equal to an odd multiple of a quarter of the wave length of the wave desired to be received.

1,924,116

CLOCK WINDING MECHANISM

Arne W. Fowler, Highland, Ill.

Application March 18, 1929. Serial No. 347,858

4 Claims. (Cl. 185—40)



1. In a device of the character described, a shaft supported for rotation in one direction, a wheel attached to said shaft, a gear wheel mounted for rotation about said shaft as an axis, a spring connected with said shaft and with said gear wheel for rotating said gear wheel about said shaft as an axis, a constantly energized motor, a threaded hub attached to said gear wheel, a support screwed on said hub for movement toward and from said first named wheel, a connection holding said support from rotating with respect to said first named wheel during movement of said support toward and from said first named wheel, an annular rack rotative about said support, gearing operated by said motor for rotating said rack about said support, and members for rotating said first named wheel and thereby said shaft by said rack to wind said spring to a predetermined degree.

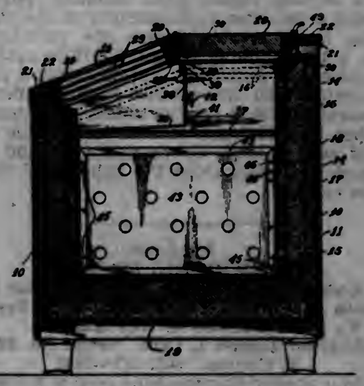
1,924,117

STORAGE AND DISPLAY CABINET

Edward M. Fritz, Edwin K. Thomas, and Frank W. Thomas, Grand Rapids, Mich., assignors to Grand Rapids Cabinet Company, Grand Rapids, Mich., a Corporation of Michigan

Application April 13, 1931. Serial No. 529,662

5 Claims. (Cl. 62—89.5)



1. A low temperature display and storage cabinet comprising a box-like unit formed of walls and a bottom rigidly held together, a water

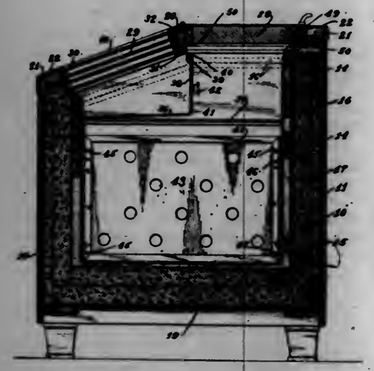
tight container adapted to snugly engage interiorly of said walls and bottom, inner walls located a short distance from the walls of the water tight container whereby a water tight chamber is formed thereby, cooling pipes located in said chamber, cooling fluid surrounding said cooling pipes, partitions adapted to be received cross-wise and interiorly of the cabinet, means to removably mount the partitions in place, a tray slidably mounted within said cabinet, a transparent member longitudinally located to one side of the top of said cabinet and doors adapted to tightly close the balance of the top of the cabinet.

1,924,118
STORAGE AND DISPLAY CABINET

Edward M. Fritz, Edwin K. Thomas, and Frank W. Thomas, Grand Rapids, Mich., assignors to Grand Rapids Cabinet Company, Grand Rapids, Mich., a Corporation of Michigan

Original application April 13, 1931, Serial No. 529,662, and in Canada May 28, 1931. Divided and this application May 9, 1932. Serial No. 610,092

13 Claims. (Cl. 312—126)



4. A low temperature display and storage cabinet comprising a box-like unit formed of walls and a bottom rigidly held together, partitions disposed cross-wise and interiorly of the cabinet, means to removably retain the partitions in place, a tray slidably mounted within said cabinet above said partitions and including a portion engageable with the cabinet to form therewith a separate display compartment, a transparent member longitudinally located to one side of the top of said cabinet above said tray and doors adapted to tightly close the balance of the top of the cabinet.

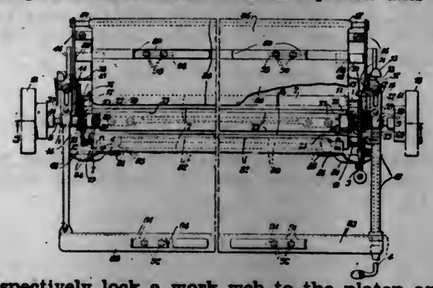
1,924,119
TYPEWRITING MACHINE

Carl Gabrielson, Syracuse, N. Y., assignor to L C Smith & Corona Typewriters, Inc., Syracuse, N. Y., a Corporation of New York

Application August 2, 1930. Serial No. 472,607

26 Claims. (Cl. 197—126)

1. In a typewriting machine having a traveling platen carriage and types, the combination of a platen journalled on the carriage, and carbon-sheet holding and work-web clamping means rotatable with the platen and shiftable radially of the platen toward and from the platen axis to



respectively lock a work web to the platen and release the web.

1,924,120
OZONE APPLICATOR

Milton E. Hanson, Collingswood, N. J., assignor to B. F. Sturtevant Company, a Corporation of Massachusetts

Application January 29, 1931. Serial No. 512,079

8 Claims. (Cl. 101—416)



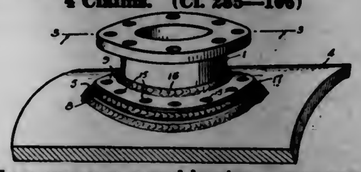
7. A fluid applicator, comprising a tube adapted to conduct a fluid and having a channelled radial extension to form a nozzle, a casing surrounding said tube in spaced relation and adapted to conduct a temperature controlling agent adjacent to said tube, heat-insulating material surrounding said casing, said casing also having a radial extension projecting through said heat-insulating material and provided with a relatively wide channel through which said tube extension passes in spaced relation, said tube and casing extensions terminating in adjacent oppositely directed arcuate flanges, and means to bind said flanges together.

1,924,121
WELDED MANWAY FOR PRESSURE VESSELS

Thomas McLean Jasper, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York

Application August 18, 1930. Serial No. 476,033

4 Claims. (Cl. 285—106)



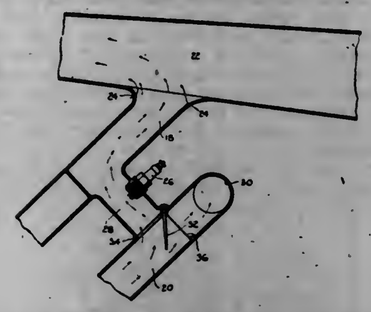
1. In a pressure vessel having a manway neck, in combination, a manway disposed in the manway opening, the lower end of the manway being chamfered circumferentially to provide a welding groove between the wall defining the manway opening and the manway, a plurality of reenforcing plates having openings therethrough for receiving the manway, and holes for receiving plug welds, said reenforcing plates being superimposed on the vessel and one another, the superimposed plates being chamfered to form welding grooves with the manway, and weld metal deposited in the welding grooves and holes for securely attaching the manway to the vessel.

1,924,122
AIRPLANE

Lester L. Jones, Oradell, N. J.

Application December 7, 1929. Serial No. 412,312

25 Claims. (Cl. 244—31)



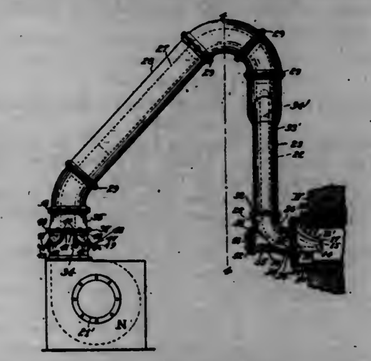
1. In the operation of an airplane in which the engine exhaust gas flows through the wing chamber, the method of preventing the possibility of explosion in the wing chamber which includes the step of so greatly diluting the exhaust gas with air that explosion is impossible.

1,924,123
MEANS FOR FEEDING PULVERIZED FUEL TO FURNACES

Joseph E. Kennedy, New York, N. Y.

Refiled for abandoned application Serial No. 125,716, July 29, 1926. This application October 26, 1928. Serial No. 315,337

12 Claims. (Cl. 110—104)



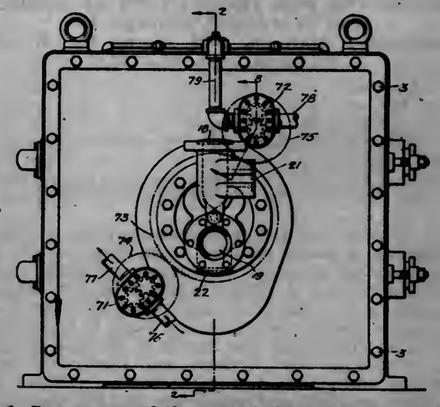
1. In the burning of pulverized coal held in suspension in an air stream, a burner arranged with spaced walls one co-axially of the other to provide a pair of passages through the burner with the inlets to the passages at one end of the burner and the outlet orifices at the opposite end thereof, means for connection to and mounting of the burner at the inlet end of the outer wall, a fuel transporting conduit connected with said means, a second fuel transporting conduit co-axially of the connection and the mounting means of the first conduit and having a slipjoint connection with the wall of the inner passage, and means adjustably mounted in an opening in the mounting means and in the conduit connected with the inner wall of the burner to deflect the fuel streams from the conduits to different parts of the burner orifices.

1,924,124
PUMP

Albert R. Kuzelewski, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania

Application May 1, 1931. Serial No. 534,356

4 Claims. (Cl. 103—161)



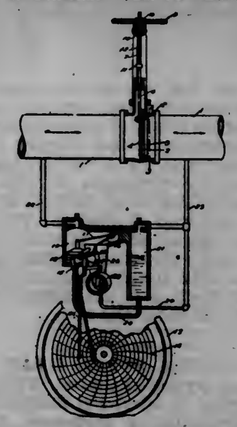
1. In a pump of the stated character, the combination with a housing comprising a cover plate, a cylindrical valve element mounted in the housing, a cylinder body embracing said valve and rotatably mounted in the housing, means for rotating said body including a gear mounted on the latter, and a pinion journaled in said cover plate, a shaft projecting through the cover plate in driving relation with said pinion, said cover plate being adjustable to a plurality of different positions on the housing to afford an adjustment of the position of said pinion and shaft about the axis of said cylinder body.

1,924,125
ORIFICE METER

Garrett B. Linderman, Jr., Erie, Pa., assignor to American Meter Company, New York, N. Y., a Corporation of Delaware

Application August 20, 1928. Serial No. 300,672

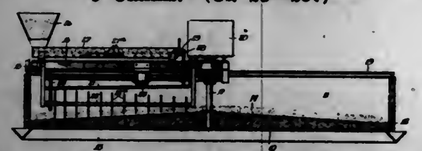
2 Claims. (Cl. 73—167)



1. In an orifice meter, the combination of a conduit having an adjustable orifice therein; means for varying the size of the orifice; a scale connected with said last means for indicating the flow coefficient at different adjustments of the

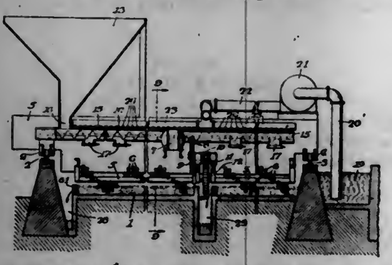
orifice; a recording means; a line pressure gauge indicating the same on the recording means; and a differential pressure gauge responsive to pressure differences at opposite sides of the orifice and indicating the same on the recording means.

1,924,126
APPARATUS FOR PRODUCTION OF OXIDES
Emil M. Lofland, Chicago, Ill.
Application April 30, 1928. Serial No. 273,838
9 Claims. (Cl. 23—287)



1. Metallurgical apparatus comprising, in combination, a basin adapted to support a bed of fragmentary material, an agitator having a reach limited to only a minor fraction of the basin's length, a carriage supporting the agitator and movable progressively over the basin to travel the agitator throughout the length of the bed, means for propelling the carriage, and means for imparting individual movement to the agitator to agitate localized portions of the bed energetically during progressive movement of the agitator and carriage and a liquid distributing device movable with the carriage in position to discharge liquid on the fractional portion of the bed undergoing agitation by the agitator, the basin being arranged for discharge of liquid from the bed.

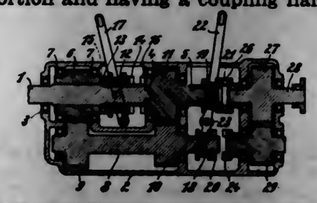
1,924,127
APPARATUS FOR PRODUCTION OF OXIDES
Emil M. Lofland, Chicago, Ill.
Application June 7, 1928. Serial No. 283,607
2 Claims. (Cl. 23—285)



1. Apparatus for controlling production of oxides comprising, in combination, a basin arranged to support a bed of fragmentary material, said basin having a bottom sloping toward one side, a carriage mounted to travel back and forth over the basin in directions parallel with said side, a trough along said side of the basin for reception of material flushed therefrom, an agitator operably mounted on the carriage for rotation on an axis extending substantially at right angles to said side of the basin, means for propelling the carriage and actuating the agitator, and means for flushing the bed.

1,924,128
CHANGE SPEED GEAR
Karl Maybach, Friedrichshafen, Bodensee, Germany, assignor to Maybach-Motorenbau G. m. b. H., Friedrichshafen, Bodensee, Germany
Application March 26, 1931, Serial No. 525,400, and in Germany April 3, 1930
2 Claims. (Cl. 74—59)

2. A change speed gear comprising; a main gear shaft having three portions, a gear on each of said portions; a countershaft having two portions, and two gears on the first one of said portions and one gear on the second portion; every gear on said main shaft being in constant mesh with one of the gears on said countershaft; a sleeve slidably splined to said first main shaft portion, said sleeve having a coupling half on each of its ends; said gear on said first main shaft portion having a coupling half adapted to co-operate with said coupling half on one end of said sleeve; said gear on said second main shaft portion being rigidly fixed thereto and having a coupling half adapted to co-operate with said coupling half on the other end of said sleeve; a sleeve slidably splined to said second main shaft portion and having a coupling half on one



of its ends; said third main shaft portion having a coupling half adapted to co-operate with said coupling half on said second main shaft portion; a sleeve slidably splined to one of said countershaft portions and having a coupling half on one of its ends; the other one of said countershaft portions having a coupling half adapted to co-operate with said coupling half on the sleeve on said first countershaft portion; connecting means between said second and said third sleeves; all said coupling halves being provided with teeth having front faces so inclined that the co-operating halves on approaching each other do not engage but rattle past each other so long until the originally faster rotating half becomes the slower rotating one and vice versa.

1,924,129
SEPARATION OF IRON AND CHROMIUM CHLORIDES
John C. Michalek, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, New York, N. Y., a Corporation of Virginia
No Drawing. Application March 30, 1929, Serial No. 351,457. Renewed December 19, 1932
5 Claims. (Cl. 23—87)

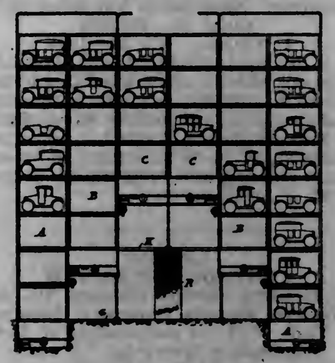
1. The method for the production of chromic chloride which comprises treating a mixture of chromous and ferrous chlorides in the presence of water with air to cause the salt mixture to go into solution and the oxidation of the chromous chloride to basic chromic chloride, separating ferrous chloride by cooling, removing the separated ferrous chloride from the solution, treating the remaining solution with hydrochloric acid and separating and removing the chromic chloride crystallizing on cooling.

1,924,130
AUTOMOBILE PARKING TOWER
James E. Morton, Harvey, Ill., assignor of one-half to James H. McVeety, Memphis, Tenn., and ten one-hundredths to William J. Aitken and Thomas B. McMartin
Application October 8, 1926, Serial No. 140,290
Renewed September 9, 1932
43 Claims. (Cl. 214—16.1)

1. In a parking tower a pair of adjacent columns; a plurality of cages movably mounted in said columns; and means for moving the cages in

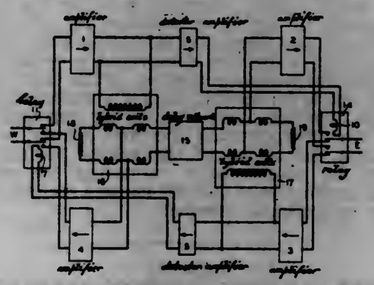
CARNEGIE LIBRARY OF ATLANTA

the columns in opposite directions comprising aligned racks mounted on the outer and inner sides of said cages; a pair of shafts mounted in said columns adjacent the outer sides of the cages; a third shaft mounted intermediate the columns; pinions on said shafts engaging said



racks; the pinions of the third shaft engaging the racks on the inner sides of the cages of both columns; and means for simultaneously rotating said shafts the third shaft being rotated in a direction opposite to that of the first mentioned shafts.

1,924,131
VOICE CURRENT REPEATER CIRCUITS
Edward Kenneth Sandeman, Philip Robert Thomas, and Carlton Rosslyn Dunham, London, England, assignors to International Standard Electric Corporation, New York, N. Y., a Corporation of Delaware
Application October 3, 1930, Serial No. 486,130, and in Great Britain October 19, 1929
8 Claims. (Cl. 179—170)



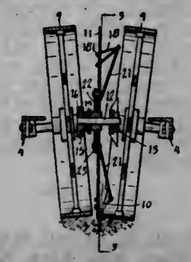
1. In a transmission system the combination of two lines each provided with switching mechanism, two branch circuits provided with two amplifiers, one branch circuit for each of said lines, a conversation path common to said lines including a delay net-work, means controlled over one of said lines for operating the switching mechanism of the second line through both of said amplifiers of one of said branch circuits, means controlled by said operated switching mechanism for connecting a third amplifier to the common conversation path, and means controlled by said delay network for retarding voice currents transmitted over the first mentioned line until after the operation of the switching mechanism of the second line.

1,924,132
LINGERIE STRAP HOLDER
Esther L. Santsaver, North Attleboro, Mass.
Application January 16, 1933. Serial No. 651,957
2 Claims. (Cl. 24—81)



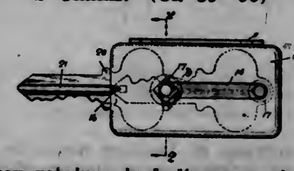
1. A garment shoulder strap holder comprising a body shaped to provide a straddle bar and resilient arms disposed on opposite sides of said bar and connected to opposite ends thereof and extending along substantially the full length of the bar, said arms at their free ends approaching said bar to such an extent that the distance between the bar and arms is less than the thickness of the parts to be received between the bar and arms, said bar and arms having a dimension at right angles to the plane of said bar and arms no greater than their dimension in the plane of said bar and arms whereby a strap may be threaded between said bar and arms and lie on one side of said bar and on the opposite side of said arms.

1,924,133
TRANSPLANTER
George W. Schutmaat, Hamilton, Mich., assignor to Hamilton Manufacturing Company, Hamilton, Mich.
Application July 5, 1928. Serial No. 290,399
2 Claims. (Cl. 111—3)



1. A transplanter comprising a carrier, a plant holder comprising a spring arm mounted on said carrier, a gripper of flexible non-elastic material having one end secured to the carrier and its other end to said spring arm whereby the gripper is held under continuous longitudinal spring stress and normally in plant receiving position, and means coacting with said arm as the holder is moved forwardly by the carrier for closing said gripper and holding it in closed position during a portion of its travel.

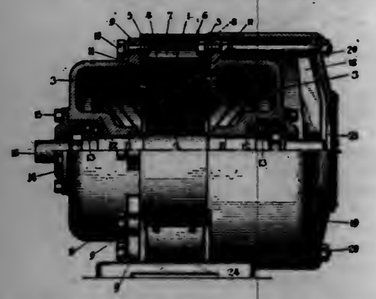
1,924,134
KEY RETAINER
Hyman R. Segal, New York, N. Y.
Application January 30, 1931. Serial No. 512,338
2 Claims. (Cl. 59—96)



1. A key retainer including a casing, means for projecting and retracting a key with respect to said casing, and a guiding lug forming a part

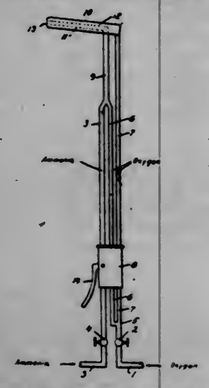
of said casing and riding within the groove of said key for confining the movements of the latter.

1,924,135
DYNAMO-ELECTRIC MACHINE
Harold L. Smith, Milwaukee, Wis., assignor to The Louis Allis Company, Milwaukee, Wis., a Corporation of Wisconsin
Application March 28, 1931. Serial No. 526,052
9 Claims. (Cl. 172—36)



1. A dynamo electric machine, comprising a stator having a laminated core, an outer casing arranged around said core and spaced therefrom to provide a passage for external air over said core, an end ring arranged upon each end of said core and extending beyond the outside thereof to support said outer casing and provided with openings for circulation of outside air through said passage, an end plate arranged upon each end ring, means to fasten said end plates in position, a rotor arranged within said stator and having its shaft bearing in said end plates, an end casing arranged at one end of said outer casing, and a fan arranged in said end casing and driven by said shaft to cause external air to pass through said passage.

1,924,136
PROCESS FOR HEATING MATERIALS
Albert George Stern, New York, N. Y., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey
Application April 2, 1931. Serial No. 527,185
6 Claims. (Cl. 148—9)

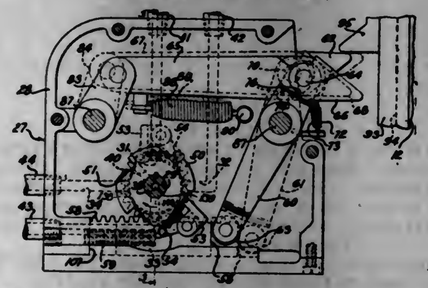


2. The process of heating metal to cutting, brazing and welding temperatures which comprises applying the flame of combustion of ammonia and oxygen to the metal.

1,924,137
PROCESS FOR MANUFACTURING ACID PHOSPHATE
William E. Stokes, Brooklyn, N. Y., and Charles T. Whittier, Nutley, N. J., assignors to Royal Baking Powder Company, New York, N. Y., a Corporation of New Jersey
No Drawing. Application November 26, 1928
Serial No. 322,084
11 Claims. (Cl. 23—109)

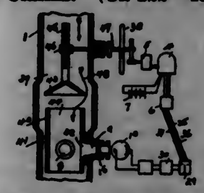
2. In a process for making acid phosphate, the improvement which comprises mixing phosphoric acid with a suitable calcium compound and water in quantities sufficient to effect the formation of acid phosphate of calcium and produce a concentration of 20 to 40 percent mono-calcium phosphate reacting at a temperature of not more than 100° F., and drying.

1,924,138
CONTROL MECHANISM
Marion Llewllyn Strawn, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 16, 1928
Serial No. 319,868
4 Claims. (Cl. 60—52)



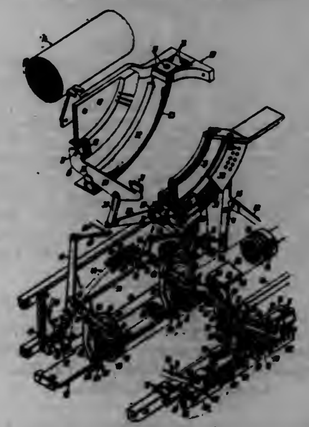
2. A fluid pressure control mechanism comprising a casing having a plurality of fluid transmission ports, a valve member movable therein to a plurality of operative positions for controlling said ports, and means for actuating and controlling the valve member comprising a reciprocable member operatively connected to the valve member, a spring for moving the reciprocable member in one direction, a second spring opposing and normally overpowering the first spring, a stop opposing the action of the second spring, and means for momentarily rendering the second spring ineffective to thereby cause a reciprocation of the reciprocable member.

1,924,139
PHOTO-ELECTRIC CONTROL APPARATUS
Carl C. Thomas, Pasadena, Calif.
Application January 18, 1932. Serial No. 587,391
11 Claims. (Cl. 122—459)



10. A device for controlling the flow of steam to effect a change in the amount of vapor carried by the steam including, a steam conduit having a regulatable steam separating means therein, a photo-electric cell responsive to the amount of vapor carried in suspension by the steam after passing through the separator, and means controlled by the photo-electric cell for regulating the separator and arranged to vary the separating action of the separator directly with variations of the quantity of suspended liquid.

1,924,140
TYPEWRITING MACHINE
Richard von Reppert, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware
Application October 11, 1930. Serial No. 487,926
31 Claims. (Cl. 197—17)



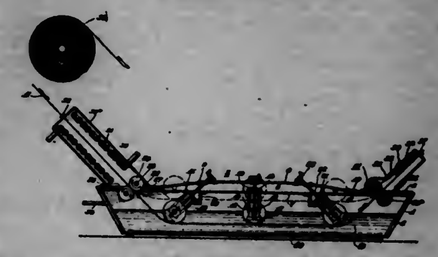
1. In a typewriting machine, the combination with a power-driven shaft, of a type-bar-operating train having a revoluble coupler, key-controlled means to bring the coupler into frictional engagement with the shaft, and a positive train of type-bar driving and returning mechanism, said train being positively decelerated by said coupler, and including a toggle caused to be straightened out by the coupler, means being provided to limit the cycling movement of the coupler to a single revolution, said train bringing the type-bar to print without concussion, and said train being returned by said coupler.

1,924,141
DETACHABLE HEEL LIFT
John F. Waidelich, Jackson, Mich.
Application November 27, 1931
Serial No. 577,542
5 Claims. (Cl. 36—42)



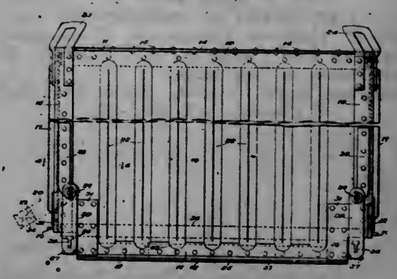
1. In a heel, the combination with the main body having an aperture therein, of a detachable top lift having a plate secured thereto provided with a threaded aperture, a threaded fastening means positioned in said body aperture and engaging said threaded aperture to secure said lift to said body, said body having a recess of a shape and depth to receive said plate, a locking pin secured in said body and located in the periphery of said recess and a channel in the periphery of said plate coacting with said pin to prevent relative movement of said body and said lift.

1,924,142
PROCESS AND APPARATUS FOR SULPHURIZING PAPER BOARD
William R. Willauer, Philadelphia, Pa., assignor to Marathon Paper Mills Company, Rothschild, Wis., a Corporation of Wisconsin
Application February 1, 1930. Serial No. 425,227
11 Claims. (Cl. 91—55)



5. Apparatus for impregnating fibrous material with sulphur, comprising a closed tank for a bath of molten sulphur, means for placing said bath under pressure, means for feeding a continuous sheet of fibrous material through said tank, adjustable rolls suspended in said tank for regulating the tension of said sheet, an inlet for said sheet at one end of said tank, a substantially closed housing, through which said sheet passes, over said inlet, sealing rolls in said inlet for maintaining the pressure in said tank, and means in said housing for heating said sheet during its passage therethrough.

1,924,143
CONTAINER
Clarence H. Williamson, Cleveland, Ohio, assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a Corporation of Ohio
Application February 27, 1931. Serial No. 518,789
11 Claims. (Cl. 294—67)

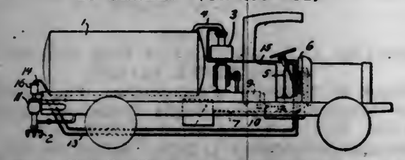


1. A bottomless container having side and end walls, the side walls being extended downwardly below the end walls and upon the lower edges of which the container is adapted to rest; and means, adjacent the lower edges of the end walls, adapted to engage under and retain a separable load support positioned between the downwardly extended portions of the side walls.

1,924,144
INDICATOR FOR DISTRIBUTING APPARATUS

Joseph C. Woodcock, Cliffside, and Paul J. Paffen, Jersey City, N. J., assignors to The Barrett Company, New York, N. Y., a Corporation of New Jersey

Application February 15, 1932. Serial No. 593,054
13 Claims. (Cl. 299—34)



2. In a distributing apparatus means for supplying material to be distributed, means for starting and stopping the distribution of material therefrom, a device for indicating the distance traveled by said apparatus, means for engaging and disengaging said device, said engaging and disengaging means being actuated by said starting and stopping means in such a manner that the indicating device is engaged only during the distribution of material.

1,924,145
PROCESS FOR MANUFACTURING OXYGEN EVOLVING PREPARATIONS

Walter Zisch, Frankfort-on-the-Main, Germany

No Drawing. Application December 23, 1930, Serial No. 504,417, and in Germany December 30, 1929
9 Claims. (Cl. 23—6)

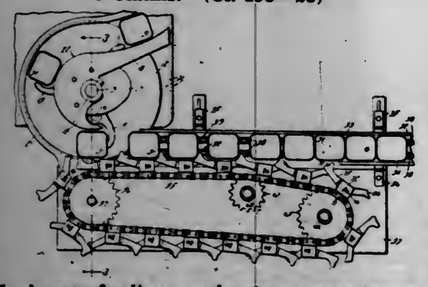
1. In the process for manufacturing porous substantially dust free oxygen evolving preparations suitable for use in breathing apparatus in which oxygen is evolved by the contact of CO_2 from the breath with the preparation the step which consists in forming bodies capable of withstanding rough usage by subjecting the hydrated peroxides of alkali metals to high pressure.

4. In the process for manufacturing porous substantially dust free oxygen evolving preparations suitable for use in breathing apparatus in which oxygen is evolved by the contact of CO_2 from the breath with the preparation the step which consists in forming bodies capable of withstanding rough usage by subjecting the alkali metal peroxides mixed with a substance containing water of crystallization to high pressures and heating the shaped bodies.

1,924,146
CAN FEEDING MECHANISM

August E. Almgren, Hillside, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey

Application April 15, 1931. Serial No. 530,313
6 Claims. (Cl. 198—23)

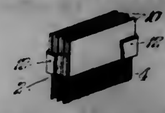


1. A can feeding mechanism, comprising an endless conveyor for moving cans to a machine, an endless indexing chain mounted for operation adjacent said conveyor, means for moving said conveyor and said chain in the same direction of travel and at different rates of speed, devices carried by said chain for bringing the cans into predetermined spaced relation on said conveyor, and other devices also carried by said chain for holding said cans in spaced position during their introduction into said machine.

1,924,147
BRUSH

Joseph D. Bates, West Springfield, Mass.

Application June 27, 1931. Serial No. 547,448
5 Claims. (Cl. 15—202)



1. As an article of manufacture, a unitary brush body comprising in combination, a plurality of bristle strip portions including a flexible support having a plurality of fibrous bristles secured transversely thereon and extending outwardly from one side thereof and a plurality of massage strips, said massage strips being arranged in alternately superposed relation with said bristle strip portions and secured thereto.

1,924,148
PNEUMATIC INNER TUBE

Constantine Bradley, Nashville, Tenn.

Application August 4, 1930. Serial No. 472,928
6 Claims. (Cl. 152—13)



1. An inner tube, comprising a body having the tread portion of comparatively thick rubber the circumferential length of the surface of the inner tube being greater than the circumferential length of the inner surface of a tire casing, said tread portion formed in rows of raised and depressed portions along the periphery of said tread portion, so that the tread portion of the inner tube will be in compression circumferentially of the tread and be in a normal or approximately normal state in cross-section upon the tube being inflated within a tire casing.

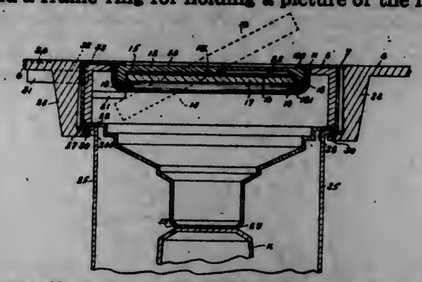
1,924,149
MARKER AND FLOWER HOLDER

Samuel F. Britton, Covington, Ky.

Application October 13, 1932. Serial No. 637,621
3 Claims. (Cl. 47—41)

1. As a new article of manufacture an invertible and submergible vase comprising a surface plate adapted to be fixedly mounted substantially flush with the ground and having an aperture therein, an inwardly shouldered flange depending from said plate, a vase comprising a pedestal portion having an apertured base, a disc member pivoted at substantially diametrically opposite sides in the aperture in said base, and normally forming a flush closure for the aperture in said pedestal base when the vase is inverted, and means comprising a protective member, a sealing member

and a frame ring for holding a picture or the like

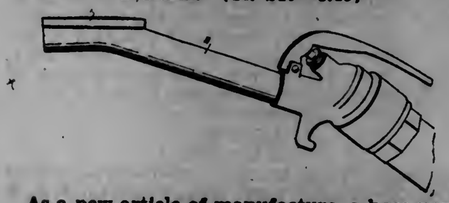


in weatherproof protected and normally concealed relation on the opposite face of the disc.

1,924,150
HOSE NOZZLE

James H. Browne, East Liverpool, Ohio

Application July 16, 1931. Serial No. 551,262
1 Claim. (Cl. 240—6.46)

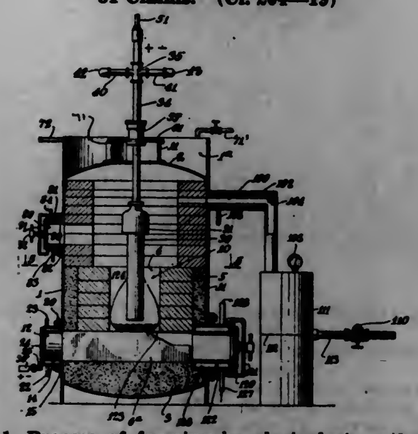


As a new article of manufacture, a hose nozzle provided with a housing disposed lengthwise and exterior thereof and terminating substantially flush with the discharge end of the nozzle, said housing being integral with the nozzle and open at opposite ends, a lamp positioned within the housing closely adjacent to its forward end, a battery for said lamp arranged within the housing rearwardly of the lamp, and a switch interposed in the operating circuit between the lamp and battery accessible through the inner open end of the housing.

1,924,151
METHOD FOR THE MANUFACTURE OF BERYLLIUM AND BERYLLIUM ALLOYS

Louis Burgess, New York, N. Y.

Application December 24, 1930
Serial No. 504,451
31 Claims. (Cl. 204—19)



1. Process of forming by electrolysis cathodic material containing metallic beryllium, which comprises maintaining a fluid electrolyte containing a dissolved beryllium compound and metallic fluorides of higher dissociation potential in contact with anodic material, consisting of a fluid alloy containing beryllium and copper, and electrolyzing the same.

1,924,152
TOOTHBRUSH

David M. Coney and Zachary T. Coney, San Francisco, Calif.

Application November 2, 1931. Serial No. 572,555
6 Claims. (Cl. 15—167)



1. In a tooth brush an elongated head member, a pair of rows of rubber bristles extending substantially from end to end of the head, one row on each side thereof, and rows of hair bristles extending crosswise of the head intermediate the rows of rubber bristles, said hair bristles being of greater length than the rubber bristles and forming an abrasive surface which is elevated with relation to the ends of the rubber bristles and having one rubber bristle for each cross row of hair bristles, and said rubber bristles aligning with the cross rows of hair bristles.

1,924,153
STAINLESS STEEL

Fred J. Crolius and Rudolph W. Stuler, Pittsburgh, Pa., assignors to Stainless Steel Corporation, a Corporation of Delaware

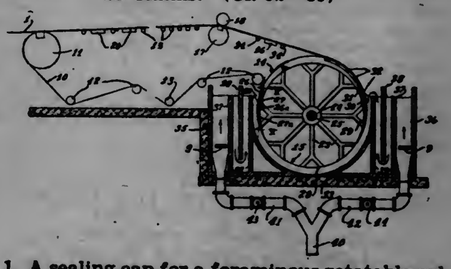
No Drawing. Application September 28, 1932
Serial No. 635,301
35 Claims. (Cl. 75—22.5)

1. The process of producing stainless steel comprising mixing low carbon steel with chromium and manganese in a high frequency electric furnace and superheating the mass to approximately 3200° F. before pouring the ingot.

1,924,154
PAPER MACHINE AND PROCESS OF MAKING PAPER

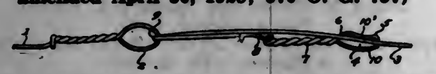
George A. Engert, Chicago, and George B. Gibson, Evanston, Ill., assignors to Sonbert Machine Company, Chicago, Ill., a copartnership consisting of George K. Gibson, George A. Engert, and George B. Gibson

Application May 9, 1932. Serial No. 610,004
28 Claims. (Cl. 92—39)



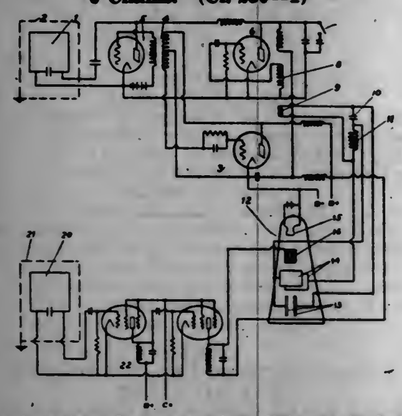
1. A sealing cap for a foraminous rotatable cylinder adapted to be partially immersed in a pond of paper stock in a stock vat which comprises an air-tight member disposed around the entire unimmersed part of the cylinder to seal the same from the atmosphere and having side walls secured to the stock vat.

1,924,155
ADJUSTABLE WIRE BALE-TIE
George E. Gaus, Washington, D. C., dedicated to the free use of the Government and the people of the United States
Application December 16, 1932
Serial No. 647,686
2 Claims. (Cl. 24—27)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. A wire bale tie having one end terminating in a loop, the wrap end of the bale wire terminating in an elongated loop having compressed sides, crook shaped end and a side recessed in alignment with crook shaped end, and adapted to be passed through said loop and to securely engage the wrap end.

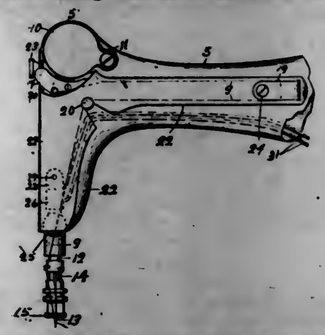
1,924,156
MEANS AND METHOD OF MEASURING DISTANCE
Robert Winfield Hart, Lynn, Mass., assignor to Submarine Signal Company, Boston, Mass., a Corporation of Maine
Application May 19, 1930. Serial No. 453,725
6 Claims. (Cl. 250—1)



1. A system for measuring distance including a source of high frequency electromagnetic waves, means for overmodulating said high frequency waves to produce periodic high frequency vibrations, means for receiving said periodic high frequency vibrations after reflection from the object whose distance is to be measured, a cathode ray tube, means for impressing said modulating frequency on said cathode ray tube to create a rotating electron beam and means operated by said receiving means to affect momentarily the anode voltage of said tube to produce an indication and a scale adjacent thereto to indicate the distance.

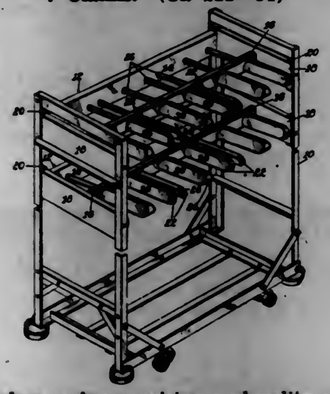
1,924,157
ILLUMINATING DEVICE FOR SEWING MACHINES OR THE LIKE
Charles W. H'Doubler, Springfield, Mo.
Application September 17, 1930
Serial No. 482,554
4 Claims. (Cl. 240—2.14)

1. In combination, a sewing machine head having a recess therein with a lower end opening, a removable face plate forming part of the head and a portion of the walls of the recess, a needle reciprocally associated with the head, an electrical connection within the recess, an electric lamp socket pivotally connected within the recess of the head and swingable to an outer position when the face plate is removed, said lamp socket being disconnected from the elec-



trical connection when in its outer position to permit removal of a lamp from the lamp socket, and an electric lamp removably mounted in the lamp socket for directing an unobstructed beam of light downwardly upon the lower portion of the needle and upon the material being sewed.

1,924,158
SHOE RACK
Paul Jones, Whitman, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application November 6, 1930. Serial No. 493,833
7 Claims. (Cl. 211—34)



1. A shoe rack comprising a plurality of shoe-supporting pins having flat surfaces arranged in pairs and inclined for engaging closely inner portions of the uppers of shoes carried in the rack, and a plurality of shoe-supporting pins having flat surfaces arranged in pairs alternating with the first-mentioned pairs of surfaces and differently inclined for engaging closely outer portions of the uppers of shoes carried in the rack.

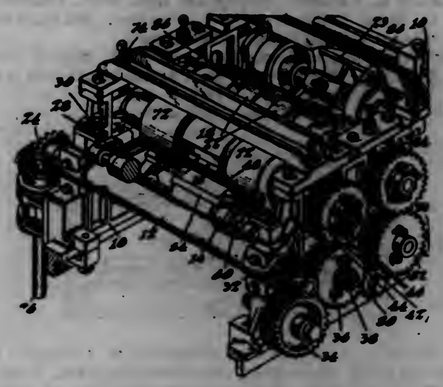
1,924,159
AUTOMATIC FIRING ACTION FOR GUNS
William F. Kellotat, Portland, Oreg.
Application July 22, 1931. Serial No. 552,523
9 Claims. (Cl. 42—3)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

6. In a gun, a frame, a breech block reciprocally mounted on the frame, a sear carried by the frame, a trigger bar for actuating the sear, means for manually moving the trigger bar, means on the block for elevating the trigger bar to inoperative position when the block is out of battery, and means for depressing the trigger bar



into sear engaging position as the block arrives in battery, whereby the sear is automatically released while the trigger bar is maintained in its manually moved position.

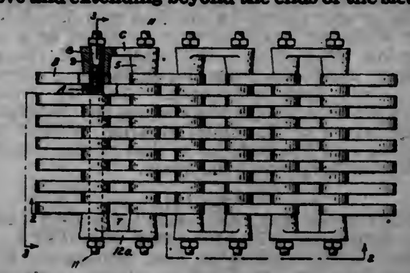
1,924,160
MACHINE FOR MAKING BLANKS
Cutler D. Knowlton, Beverly, Mass., assignor to Hoague-Sprague Corporation, Lynn, Mass., a Corporation of Massachusetts
Application July 21, 1928. Serial No. 294,336
25 Claims. (Cl. 93—58)



1. In a machine for making blanks, two opposed members between which blank-material passes, and knives carried by both members and having pressure-surfaces diverging from a cutting edge at a considerable angle to each other, said edge and surface being arranged to produce cuts having rounded edges situated at opposite sides of the material, there being surfaces upon the members against which the material is forced by the knives to sever it and round the edges.

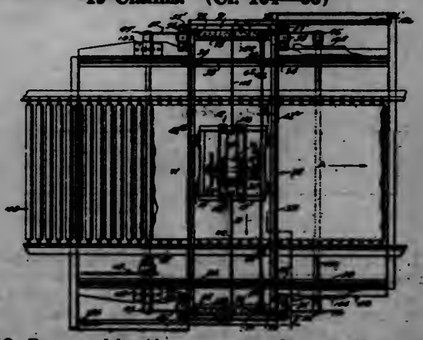
1,924,161
FLEXIBLE TRACK
Harry A. Knox, Davenport, Iowa
Application August 28, 1931. Serial No. 560,022
6 Claims. (Cl. 305—10)
(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a track, equally spaced link pins, a plurality of mutually spacing links connecting the pins, and side members on each pair of pins including spaced sleeves, a web connecting the sleeves, means for securing the sleeves in place on the pins, a shoe on the outer side of each sleeve and extending beyond the ends of the sleeve,



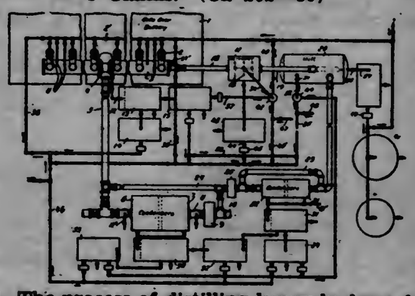
and a wheel guide on the inner side of such sleeve.

1,924,162
CUT-OFF MACHINE
William H. Mason, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a Corporation of Delaware
Application October 18, 1930. Serial No. 489,594
19 Claims. (Cl. 164—68)



12. In combination, means for continuously moving a web or sheet of material, a main carriage, means actuated by said first named means for imparting reciprocatory movement to said carriage in a direction parallel to the line of movement of said sheet of material, a cutter carriage mounted on said main carriage, and means actuated by the main carriage for imparting reciprocating movement to said cutter carriage in a direction transverse to said line of movement.

1,924,163
DISTILLATION OF TAR
Stuart Parmelee Miller, Englewood, N. J., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey
Application March 23, 1928. Serial No. 263,989
3 Claims. (Cl. 202—30)



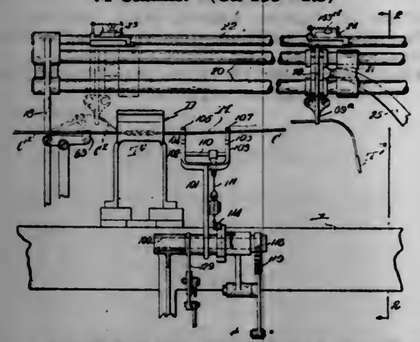
1. The process of distilling heavy hydrocarbon material in liquid form which comprises remov-

ing entrained impurities from hot fresh coal gasification gases, bringing the hot treated gases and the material to be distilled into direct contact while the material is maintained at a distillation temperature, the removal of the entrained impurities from the gases being effected at such a high temperature that the treated gases are at a temperature above the distillation temperature of the material when brought into contact with the material so that heat is supplied to the material from the gases.

1,924,164
METHOD OF AND APPARATUS FOR TRANSFERRING STRAND-LIKE ARTICLES

Albert G. Pieczentkowski, East Providence, R. I., assignor to Providence Braid Company, Pawtucket, R. I., a Corporation of Rhode Island

Application March 22, 1929. Serial No. 349,242
74 Claims. (Cl. 153—1.5)



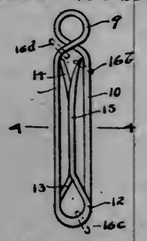
1. Apparatus of the class described comprising a reservoir for tipped laces, said reservoir having a series of lace engaging elements, a swinging arm provided with lace holding means, and means for swinging said arm back and forth from a source of supply to the reservoir, the holding means receiving tipped laces from the supply and delivering them in orderly sequence to the lace engaging elements of the reservoir.

62. That method of preparing shoe laces which comprises as steps applying the tips to both ends of a lace, disposing successively tipped laces one after another as completed in orderly sequence to form a group with each lace of the group arranged in predetermined relation to others of the group, and transferring the group as a unit to another point without substantial disturbance of its constituent laces.

1,924,165
FASTENER

Andrew Reekers, Portland, Oreg.

Application March 18, 1932. Serial No. 599,714
1 Claim. (Cl. 24—237)



In a fastener: a loop; two parallel bars integral with said loop; a loop formed upon the extremities of each of said bars; a second pair of parallel bars adjacent each other and parallel to said former bars, one of each of said latter bars being integral with one of said latter loops, said latter bars being centrally positioned between said former bars; and outwardly curved extremities upon each of said latter bars.

1,924,166
PRODUCTION OF NITRO-SULPHONIC ACIDS OF POLYHYDROXYANTHRAQUINONES

Donald G. Rogers, Hamburg, N. Y., assignor to National Aniline and Chemical Company, Inc., New York, N. Y., a Corporation of New York

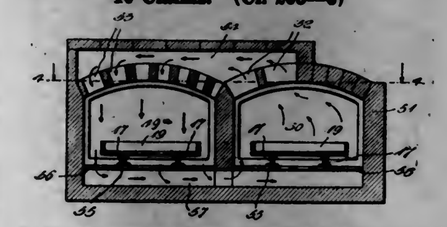
No Drawing. Application March 20, 1930
Serial No. 437,589
28 Claims. (Cl. 260—58)

1. A process for the production of derivatives of polyhydroxyanthraquinones which comprises sulphonating a polyhydroxyanthraquinone compound which contains at least one hydroxyl group in each of the benzene residues of the anthraquinone nucleus by heating it with a reaction mixture containing oleum and a sulphate of an alkali-forming metal, and nitrating the resulting reaction mixture.

1,924,167
RECUPERATIVE COUNTER-FLOW FURNACE

Edwin L. Smalley, Whitefish Bay, Wis., assignor to Hevi Duty Electric Company, Milwaukee, Wis., a Corporation of Wisconsin

Original application June 5, 1929, Serial No. 368,646. Divided and this application July 10, 1930. Serial No. 467,977
10 Claims. (Cl. 263—6)



9. In a recuperative counterflow furnace, a multiplicity of aligned chambers disposed longitudinally end to end and laterally side by side, a longitudinally extending wall dividing said chambers into a multiplicity of sections, the intermediate sections constituting heat treatment chambers and the adjacent end sections constituting preheating and cooling chambers respectively, transverse flues interconnecting the top of adjacent preheating and cooling chambers at one end of said furnace, independent sets of transverse flues interconnecting the top of the cooling and preheating chambers at the opposite end of said furnace, supporting plates extending across the bottom of said preheating and cooling chambers, flues beneath said plates interconnecting the adjacent preheating and cooling chambers and ports in the tops of said preheating and cooling chambers and in said plates, said ports being graduated in size from a minimum adjacent the wall between said preheating and cooling chambers to a maximum adjacent the remote walls of said chambers for the distribution of convection currents through the preheating and cooling chambers for the simultaneous heating of charges entering one heat treatment chamber and the simultaneous cooling of charges leaving the adjacent heat chamber.

1,924,168
ALLOY OF ALUMINUM AND BERYLLIUM

Joseph Kent Smith, Detroit, Mich., assignor to Beryllium Development Corporation, New York, N. Y., a Corporation of Delaware

No Drawing. Application December 22, 1931
Serial No. 582,656
2 Claims. (Cl. 75—1)

1. A beryllium aluminum alloy containing aluminum from about 55% to about 70%, beryllium from about 25% to about 40%, and the balance, not in excess of approximately 2%, molybdenum to harden the aluminum eutectic.

1,924,169
ANTISEPTIC PREPARATION

John E. Stacey, Saugus, Mass., assignor to Otis Clapp & Son, Inc., Boston, Mass., a Corporation of Massachusetts

No Drawing. Application March 10, 1931
Serial No. 521,507
3 Claims. (Cl. 167—58)

2. An antiseptic preparation including as ingredients meta-cresol and camphor in approximately the ratio of 1 to 3 by weight and an essential oil.

1,924,170
METHOD FOR PREPARING LATEX COMPOSITIONS

Andrew Szegvari, Akron, Ohio, assignor to American Anode, Inc., Akron, Ohio, a Corporation of Delaware

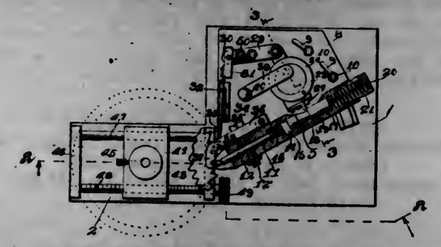
No Drawing. Application May 23, 1929
Serial No. 365,564
4 Claims. (Cl. 18—50)

1. The method of adding metal compounds to latex which comprises reacting a metal oxide or hydroxide with a slight excess of a fatty acid to form a substantially insoluble soap, swelling the soap with a water solution of a strong alkali, and dispersing the soap throughout a body of latex.

1,924,171
DEVICE FOR SWAGING SAW TEETH

Walter C. Tesch, Milwaukee, Wis.

Application June 12, 1931. Serial No. 543,845
4 Claims. (Cl. 76—53)

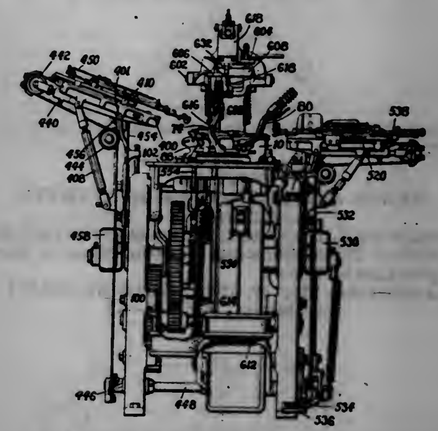


1. A saw swaging device including a base, means for movably clamping a saw thereto, a movable plunger carried by the base for engaging the teeth of a saw, a movable hammer member having an annular shoulder, an eccentrically mounted collar having a lateral projecting finger for engaging said shoulder to impart movement to the hammer in one direction, a coil spring engaged by the hammer when the same is moved in one direction whereby the coil spring is compressed so that the tension of said spring will urge the hammer toward the plunger upon disengagement of the finger from the shoulder, means for manually actuating the collar and means operated in conjunction with the hammer for engaging the saw teeth to advance the saw past the plunger after operation of said plunger.

1,924,172
APPARATUS FOR PRESSING SHOES

William D. Thomas, Lynnfield, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey

Application December 9, 1931. Serial No. 579,938
33 Claims. (Cl. 12—33)



1. A pressure apparatus for a shoe comprising a pad carrying member arranged to impart pressure to the bottom surface of a shoe, two pressure transmitting members mounted on the pad carrying member and arranged to overhang a shoe on said member and to impart pressure thereto at separated points, and means for adjusting each of said pressure transmitting members toward and from the other.

21. In a pressing machine, a pressure table, two pressure imparting members arranged to press on a shoe located between them and the table, mechanism for actuating said pressure imparting members comprising an evener device whereby the operative pressure imparted to said pressure imparting members may be arbitrarily distributed between them, an operating member for said mechanism, and a connection between said operating member and said evener device, said connection having an adjustable point of application to said evener device, and a length changing device for said connection, operable as said connection is moved.

28. In a machine for pressing soles and shoes together, a sole supporting means, a carriage movable toward a sole on the supporting means and carrying end and side gaging members, means operated by said end gaging member as it strikes the sole to lock said carriage against further movement toward the sole, a control member for said side gaging member held inoperable during movement of the carriage but released for movement upon the locking thereof, and a stop arranged to prevent movement of said end gaging member away from the sole operated by said control member.

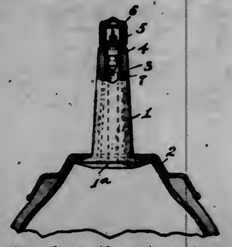
1,924,173
STEM FOR PNEUMATIC TIRES OR THE LIKE

Arthur P. Williamson, Shaker Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio

Application October 8, 1932. Serial No. 636,798
3 Claims. (Cl. 152—12)

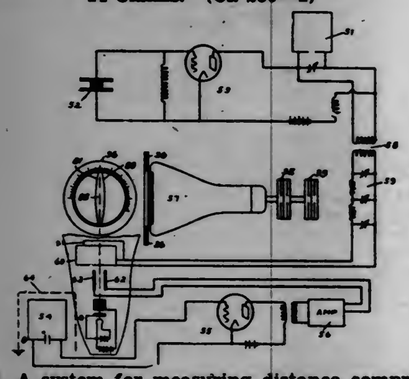
1. A valve stem made of flexible material and having a central air passageway, said stem being

provided with air pockets adapted to receive



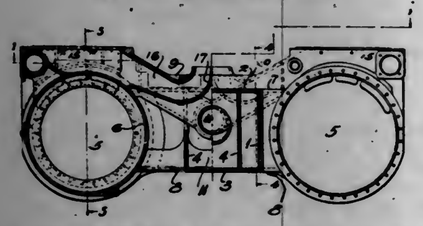
compressed air when the stem is used upon an inflated article.

1,924,174
MEANS AND METHOD OF MEASURING DISTANCE
Ezekiel Wolf, Dorchester, Mass., assignor to Submarine Signal Company, Boston, Mass., a Corporation of Maine
Application May 19, 1930. Serial No. 453,731
14 Claims. (Cl. 250—1)



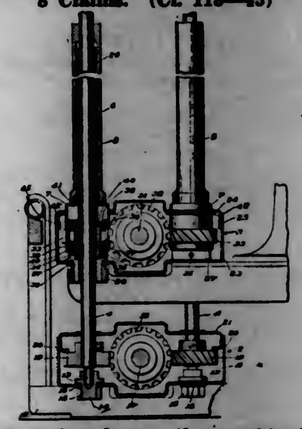
1. A system for measuring distance comprising means for periodically emitting an electromagnetic wave, means for receiving the direct waves, means for receiving the corresponding reflected wave after reflection from the object whose distance is to be measured, means for progressively retarding one of said waves, and means for indicating a synchronism of the direct and reflected wave, and a scale for indicating the distance at the position of the means when the indication is produced.

1,924,175
LOCOMOTIVE STRUCTURE
Julius J. Zach, Moores, Pa., assignor to General Steel Castings Corporation, Granite City, Ill., a Corporation of Delaware
Application September 17, 1931
Serial No. 563,274
18 Claims. (Cl. 105—44)



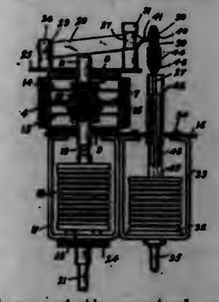
1. In combination, a locomotive main frame member, steam control chambers at the sides thereof, transverse vertical webs intermediate the ends of said member and bracing said chambers, and a steam supply pipe extending along said member and terminating in branches extending between said webs to said chambers, all of said parts constituting an integral structure.

1,924,176
ROVING FRAME
Frederic E. Banfield, Jr., and George F. Albrecht, Saco, Maine, assignors to Saco-Lowell Shops, Boston, Mass., a Corporation of Massachusetts
Application July 1, 1931. Serial No. 548,141
8 Claims. (Cl. 118—45)



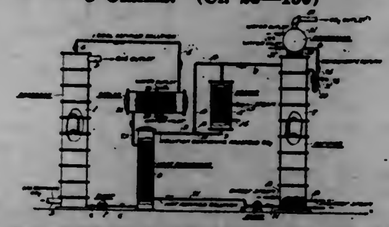
1. In a roving frame, the combination of a rail comprising a sheet metal lower section, a series of step bearings secured in the bottom of said section and cooperating with said section to form an oil tight reservoir for supplying oil to said bearings, a series of upright spindles mounted, respectively, in said bearings, said spindles being arranged in two rows with the individual spindles in one row staggered with reference to those in the opposite row, a driving shaft located horizontally in said rail section between said rows of spindles, spiral gears carried by said shaft and rotating therewith, additional spiral gears on said spindles driven by the spiral gears on said shaft, and a removable cover for said lower section.

1,924,177
AUTOMATIC CONTROL VALVE
Fredrick E. Beebe, Willowick, Ohio, assignor to George E. Beach, Cleveland, Ohio
Application July 9, 1931. Serial No. 549,622
10 Claims. (Cl. 236—99)



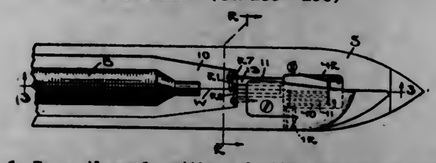
1. In a thermostatic control mechanism, a valve comprising a casing having an inlet and an outlet and a central valve seat member, a valve member mounted in said casing on a tube projecting beyond the ends of said casing, a temperature responsive means adapted to contact with said tube to close the valve, a lever positioned to contact with the opposite end of said tube, and another temperature responsive means adapted to open said valve by means of said lever.

1,924,178
METHOD OF OBTAINING PURE CARBON DIOXIDE
Gilbert A. Bragg, Pittsburgh, Pa., assignor to The Koppers Company of Delaware, a Corporation of Delaware
Application September 9, 1931. Serial No. 561,878
3 Claims. (Cl. 23—150)



1. The method of obtaining carbon dioxide in substantially pure form, which comprises washing a gas containing at least 10% of carbon dioxide but no appreciable amounts of other acidic gaseous substances with a solution containing an alkali metal salt of boric acid and thereby selectively absorbing carbon dioxide from the gas, removing the carbon dioxide-laden solution from the gas, heating it to drive off carbon dioxide therefrom, and collecting the carbon dioxide thereby liberated.

1,924,179
THREAD CUTTING SHUTTLE
Albert Cederlund, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts
Application February 20, 1931. Serial No. 517,263
9 Claims. (Cl. 139—196)



1. In a thread cutting shuttle having a bobbin chamber and an eye thread passage, a pair of stationary overlapping oppositely facing cutting edges between the passage and chamber and located below the center of the shuttle to engage and sever the weft of an outgoing bobbin.

1,924,180
SOLID FUEL
Sandford S. Cole, Pittsburgh, Pa., assignor to The Koppers Company of Delaware, a Corporation of Delaware
No Drawing. Application July 8, 1929
Serial No. 376,866
1 Claim. (Cl. 44—6)

Solid fuel having on its surface a film of a composition consisting of oil and hydrated aluminum oxide, the said hydrated aluminum oxide being present to the extent of up to substantially two percent by weight of the said solid fuel.

1,924,181
ROOFING AND PROCESS OF MANUFACTURING SAME
Roger W. Cutler, Needham, Mass.
No Drawing. Application June 16, 1928
Serial No. 286,063
4 Claims. (Cl. 154—2)

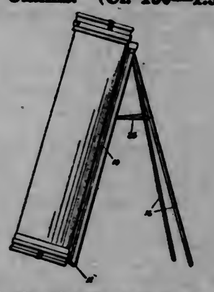
2. That improvement in processes of manufacturing a roofing which consists in suspending body forming materials in a solution of fireproofing substances, working said materials into the form of a board, impregnating said board with a synthetic resin in one of its lower phases, and heating the board so impregnated to convert the resin into substantially an insoluble and infusible condition.

1,924,182
GOLF BAG STAND
Ernest M. Fritz, Chicago, Ill.
Application October 3, 1931. Serial No. 566,745
8 Claims. (Cl. 150—1.5)



8. A tripod attachment for golf bags, said attachment including a casing having a pair of legs pivotally secured to an inner wall thereof, means at the lower extremity of said casing for attachment to the golf bag, said means including a pair of pivotal connections, a support secured to the upper portion of said casing for slidable adjustment lengthwise thereof, means at the upper extremity of said support for attachment to the golf bag, said casing being provided with a pair of elongated slots for the passage of said legs into and out of said casing, and braces pivotally secured to said legs and slidably secured at their inner extremities to an inner wall of said casing.

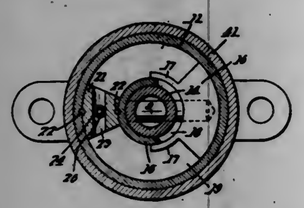
1,924,183
GOLF BAG STAND
Ernest M. Fritz, Chicago, Ill.
Application June 15, 1932. Serial No. 617,407
3 Claims. (Cl. 150—1.5)



1. A tripod stand adapted for attachment to a golf bag for supporting the golf bag in an

inclined position, one leg being in the form of a shell which is open on the side opposite the golf bag, a telescoping slide for said open shell leg for adjusting the length thereof to conform to the length of the golf bag, straps adapted to surround the golf bag at the upper and lower extremities thereof, said straps being secured respectively to said open shell leg and to said slide, a pair of legs pivotally connected to said open shell leg to diverge therefrom and from each other into their operative position, yieldable means for normally maintaining said pair of legs in inoperative position within said open shell leg, and finger actuated means for moving said pair of legs into operative position.

1,924,184
SHOCK ABSORBER
Frank J. Gibbons, Worcester, Mass.
Application May 27, 1929. Serial No. 366,122
8 Claims. (Cl. 188—89)



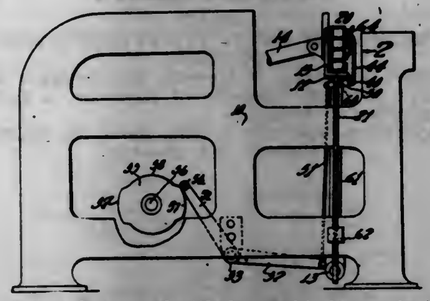
1. In a shock absorber, the combination with a base adapted to be secured to a fixed part and having a wall projecting therefrom and constituting a work chamber, of a shaft located in the work chamber, an interrupted base on one side of said chamber in fixed position having a port therethrough for allowing liquid to pass, a stationary sleeve on the shaft, a wing oscillatably mounted on said sleeve, means carried by the shaft for operating the wing, said means projecting through the sleeve, opposite discs in said chamber fixed in position to prevent passage of liquid thereby, a reservoir for liquid beyond one disc, ports through the latter disc on each side of said wing and clapper valves for controlling said ports to admit liquid and prevent its escape as the wing vibrates to compensate for the loss of liquid.

1,924,185
GAS PURIFICATION MATERIAL AND METHOD OF USING THE SAME
Herbert A. Gollmar, East Orange, N. J., assignor to The Koppers Company of Delaware, a Corporation of Delaware
No Drawing. Application March 7, 1927
Serial No. 173,613
6 Claims. (Cl. 252—2.5)

1. A solute material adapted to form a gas purifying solution that comprises an intimate mixture of substantially equal parts of arsenous oxide and sodium carbonate.

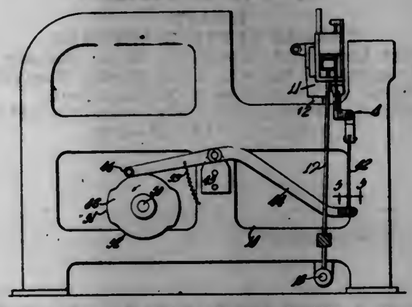
3. The method of producing a gas purification liquid containing a thio-arsenic compound capable of being sulphided and subsequently revivified, which comprises dissolving a previously prepared mixture of a compound of an alkali metal and a compound of arsenic, in a ratio of less than three and at least two alkali metal atoms to one arsenic atom, in water, heating said solution, sulphiding said solution and aerating the same.

1,924,186
SHUTTLE CHECKING MECHANISM
Albert A. Gordon, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts
Application December 30, 1931
Serial No. 583,931
5 Claims. (Cl. 139—187)



1. In a loom, a shuttle box, a binder, a pivoted supporting member on which said binder is movably mounted, a binder spring mounted on said supporting member and engaging said binder, and additional positive means to move said supporting member toward said shuttle just prior to the boxing of the shuttle, thereby increasing the binder spring pressure.

1,924,187
SHUTTLE CHECKING MECHANISM
Albert A. Gordon, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts
Application December 30, 1931
Serial No. 583,932
9 Claims. (Cl. 139—187)

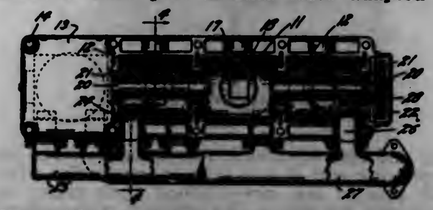


1. In a loom having a lay, a shuttle, a shuttle box and a binder, in combination, a checking member mounted for movement longitudinally of the shuttle box toward the incoming shuttle and effective in advanced position to apply increased force to the binder as the shuttle reaches final boxed position, and means to advance said member before the shuttle is boxed.

1,924,188
ROTARY VALVE FOR INTERNAL COMBUSTION ENGINES
Charles W. Hall, Denver, Colo., assignor to Malcolm S. Losey, Denver, Colo.
Application October 10, 1929, Serial No. 398,598
Renewed January 20, 1933
4 Claims. (Cl. 123—190)

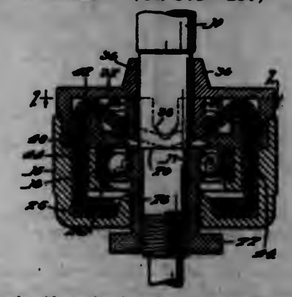
1. In an internal combustion engine having a cylinder passage extending vertically from the cylinder; a hollow cylindrical valve arranged to rotate on a horizontal axis above said cylinder

passage; an intake passage; an exhaust passage; said intake and exhaust passages opening to said rotary valve substantially at right angles to and on each side of said cylinder passage; two ports in said rotary valve adapted to align with said cylinder passage at predetermined times; a third port in said valve adapted to



align with said intake passage; a fourth port in said valve adapted to align with said exhaust passage; a conduit within said valve connecting one of said first ports with said fourth port, the remainder of the hollow interior of said valve being open to the other of said first ports and said third port.

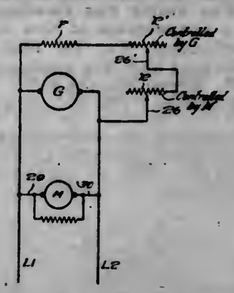
1,924,189
LUBRICATING DEVICE FOR ANTIFRICTION SPINDLE BEARING
Walter H. Hall, Winchendon, Mass., assignor to Goodspeed Machine Company, Winchendon, Mass., a Corporation of Massachusetts
Application January 7, 1930. Serial No. 419,176
2 Claims. (Cl. 308—187)



1. A lubricating device for a spindle having an anti-friction bearing with inner and outer races, comprising a casing mounted in fixed position concentric with said spindle and having an oil storage recess below said bearing, a cover for said casing, and wick members having intermediate portions disposed within the upper part of said casing and having end portions extending downward to said oil recess, said casing having spaced inwardly projecting elements effective to position the intermediate portions of said wick members inwardly to increase their arc of contact with the periphery of said spindle, and said casing cover having depending projections effective to hold said intermediate portions in direct contact with the upper face of the inner bearing race.

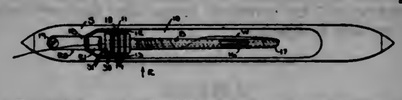
1,924,190
VOLTAGE CONTROL FOR VARIABLE SPEED GENERATORS
Renfrew H. Kuehnstedt, Highland Park, Ill., assignor to Thompson & Jameson Corporation, Chicago, Ill., a Corporation of Illinois
Application November 7, 1929. Serial No. 405,345
4 Claims. (Cl. 171—229)

1. The combination with a variable speed electric generator, of a primary variable resistance coacting therewith, means controlled by said generator for regulating said primary resistance, a motor driven by said generator, a secondary



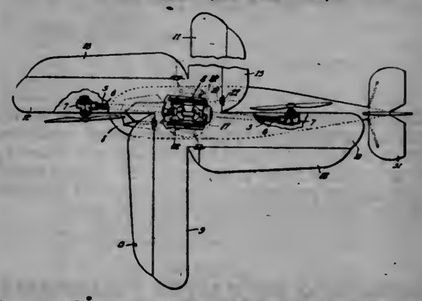
variable resistance, and means under the control of said motor for regulating said secondary resistance.

1,924,191
WEFT CARRIER
George A. Irons, Jr., Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts
Application July 10, 1931. Serial No. 549,964
15 Claims. (Cl. 139—207)



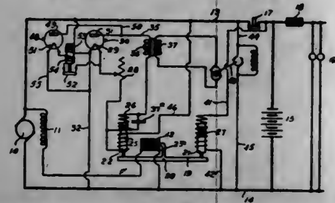
1. In a loom, a shuttle, a spent bobbin therein from which extends a weft thread, a guide member on the shuttle across which the weft thread extends, and a weft carrying member to engage the guide member and enter the shuttle, one of said members having a notch positioned to receive the weft to prevent cutting thereof when the members engage each other.

1,924,192
AIRCRAFT
Frederick C. Kusse, Chicago, Ill.
Application October 13, 1930. Serial No. 488,309
8 Claims. (Cl. 244—19)



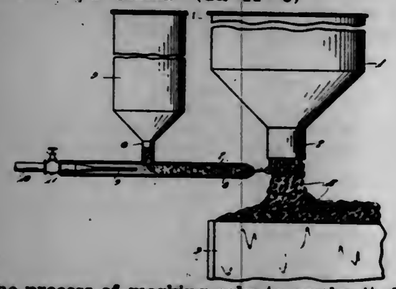
1. An aileron control unit or variable lift airfoil control unit situated at the hub of a vertically rising aircraft and consisting of a ring having a spherical surface upon which is mounted the control disk or ring and to the outer edge of which disk or ring aileron control sleeves are connected by ball and socket joints, said sleeves containing rods which regulate the angle setting of the ailerons or variable lift airfoils during rotation of the lifting unit.

1,924,193
REGULATING APPARATUS
Alan Varley Livingston, Englewood, N. J., assignor to The Safety Car Heating & Lighting Company, a Corporation of New Jersey
Original application May 28, 1926, Serial No. 112,219. Divided and this application September 26, 1930. Serial No. 484,552
8 Claims. (Cl. 171—313)



1. In a system of the character described, in combination, a generator; a carbon pile regulator therefor; a storage battery adapted to be charged by said generator; a switch for connecting said storage battery to said generator; and means for controlling said carbon pile regulator, said means including an electromagnetic winding, thermionic means responsive to changes in a function of the output of said generator for controlling the energization of said winding, and an electromagnetic winding for opposing said first-mentioned winding and connected to be energized by current from the battery when said switch is open.

1,924,194
PROCESS OF MARKING COKE
Gilbert V. McGurl, Chicago, Ill., assignor to The Koppers Company of Delaware, a corporation of Delaware
Application March 7, 1930. Serial No. 434,176
1 Claim. (Cl. 44—6)



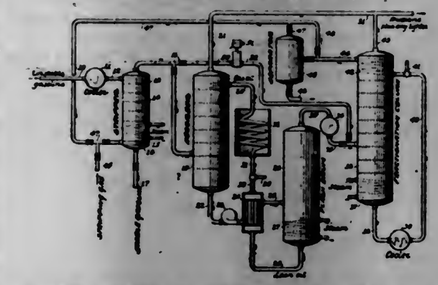
The process of marking coke to render it distinctive, which comprises preparing cellulosic pulp in a state of liquid suspension and then applying it under fluid pressure to the coke whereby it enters the recesses of the surface of the coke to cause it to be firmly secured thereto.

1,924,195
DISPENSING DEVICE FOR COLLAPSIBLE TUBES
Horace H. Miles, San Francisco, Calif.
Application April 13, 1932. Serial No. 604,974
5 Claims. (Cl. 221—60)

1. A dispensing device for collapsible tubes comprising a body provided with a centrally disposed longitudinal bed portion and a depressed rack on each side of said bed portion; a pair of pinions mounted in engaging relation with said racks; and a roller of a lesser diameter than the pitch diameter of the pinions rigidly connected to said pinions and lying in close proximity to said bed portion whereby the contents of a collapsible tube upon said bed portion may be extruded from said tube by a rolling, and also a rubbing, movement towards the dispensing end of said tube by said roller when said pinions are moved along their racks toward said dispensing end whereby said contents may be substantially entirely removed from said tube.



1,924,196
STABILIZATION OF NAPHTHA
Clarke C. Miller, Wood River, Ill., assignor to Standard Oil Company, Chicago, Ill., a Corporation of Indiana
Application December 31, 1931
Serial No. 584,155
11 Claims. (Cl. 196—11)

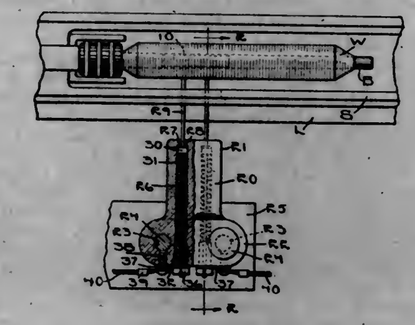


1. The method of removing dissolved gaseous hydrocarbons with a vapor pressure higher than that of butane from light naphtha which comprises replacing said dissolved hydrocarbons with a gas having a vapor pressure not higher than that of butane and removing said hydrocarbons by means of said gas.

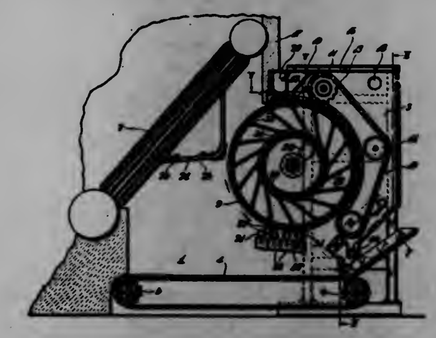
1,924,197
ELECTRICAL FEELER
Oscar V. Payne, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts
Application November 14, 1930
Serial No. 495,707
8 Claims. (Cl. 139—273)

1. An electrical feeler for looms operating with bobbins having current conducting surfaces which are uncovered when the weft is substantially exhausted, and having a supporting platform, a body formed of insulating material with parallel top and bottom surfaces either of which is shaped to rest on the platform and having a pair of spaced substantially parallel holes therein, each hole having the forward end thereof threaded and having the rear end partly closed by a wall formed as part of the body, a wire feeler in each hole, each feeler having a shoulder located in the corresponding hole, a screw threaded in the forward end of each hole, each screw having a bore therethrough which is coaxial with the corresponding hole, and a spring

located in each hole, each spring surrounding its corresponding wire finger and bearing against the associated shoulder and screw and tending to move the wire finger rearwardly, each wire finger being slidably mounted through the bore of the screw to maintain electric contact therewith, the body being symmetrical about an axis parallel to the holes and located midway therebetween.



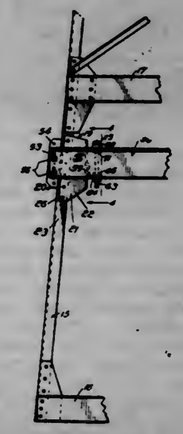
1,924,198
APPARATUS FOR AND METHOD OF PRODUCING COKE
Franz Puening, O'Hara Township, Allegheny County, Pa.
Application August 10, 1927. Serial No. 211,887
7 Claims. (Cl. 202—9)



1. Distilling apparatus comprising a movable surface having opposite edges adapted to receive material to be heated and stationary means adjacent to the edges of said surface for retaining said material thereon and for preventing exchange of gases between said material and the atmosphere at the edges of the material-bearing surface, said means comprising a flexible device adapted to closely engage each edge of said surface.

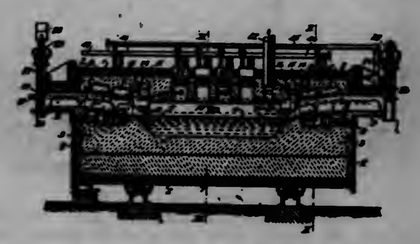
7. The method of continuously preparing and supplying carbonized fuel to, and distributing it into, a combustion zone and burning the fuel which comprises rotating a heat-storage solid-medium of substantially the same width as said combustion zone within the same and thereby heating a constantly changing portion of said medium with heat from combustion in the combustion zone, continuously supplying coal to another previously heated portion of said medium carbonizing said coal on said medium by the heat stored in said medium, delivering the carbonized fuel from said medium directly to said combustion zone and across its entire width, and then burning the carbonized fuel in said combustion zone.

1,924,199
ADJUSTABLE CONNECTION FOR DRAW WORKS GIRT
Wilfred D. Sawyer, Long Beach, Calif., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif, a Corporation of California
Application May 16, 1929. Serial No. 363,697
9 Claims. (Cl. 189—19)



1. In an adjustable girt construction, the combination of: a derrick leg; a girt member adapted to be supported by said leg in a plurality of positions; a primary support member rigidly secured to said leg and being supported thereby; jack means operatively connected to said primary support and to said girt whereby said girt may be moved into different positions relative to said leg; and a secondary support member secured to said leg and to said girt for rigidly securing same together.

1,924,200
FURNACE FOR SMELTING ALUMINIUM
Julius Schüffler, Essen-Ruhr, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa., a Corporation of Delaware
Application December 30, 1931, Serial No. 583,873, and in Germany January 5, 1931
11 Claims. (Cl. 266—33)

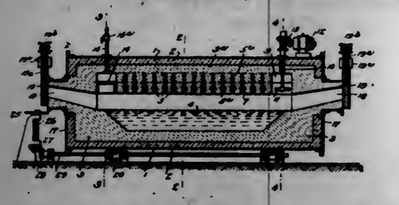


3. A furnace according to claim 2 wherein a number of muffles for preheating the metal to be treated are provided, with separate gas burners for each muffle chamber.

1,924,201
APPARATUS FOR SMELTING ALUMINIUM AND OTHER LIGHT METALS

Julius Schüffler, Essen, Germany, assignor, by mesne assignments, to the Koppers Company of Delaware, Pittsburgh, Pa., a Corporation of Delaware

Application February 1, 1932, Serial No. 589,986, and in Germany January 31, 1931
2 Claims. (Cl. 13—20)
(Granted under section 14, act of March 2, 1927; 357 O. G. 5)

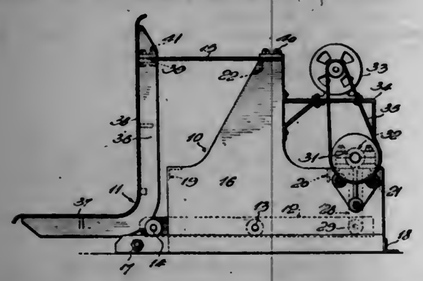


1. A furnace for smelting aluminium or other metals or metal alloys of similar properties, comprising a trough for the molten metal, electrically heated resistances disposed above same in such a manner that the heat is transferred from them to the metal under treatment, horizontal channels provided wholly within the upper and lower extremities of the furnace roof, said resistances being disposed wholly within said channels so as to be protected by the furnace roof from splashing of metal in said furnace chamber, flues also provided in said furnace roof above said channels and opening on both sides into the furnace chamber, the channels for the resistances in the furnace roof being communicably connected with said flues by upper horizontally restricted vertical ducts and with the furnace chamber by lower horizontally restricted vertical ducts in said furnace roof, and means for moving the gases contained in the furnace chamber in circulation through said flues, thence through the upper restricted ducts to the channels and then the lower restricted ducts in the furnace roof, past the resistances to the metal under treatment, back to the furnace chamber.

1,924,202
SACK PACKER

William T. Shaler, Silver Creek, N. Y.

Application April 22, 1932. Serial No. 607,000
4 Claims. (Cl. 259—72)

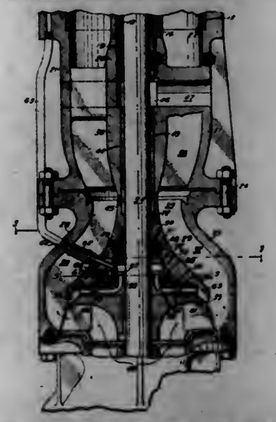


1. A sack packer comprising two laterally spaced vertical side frames, an elevated horizontal bar extending between and secured to said side frames, a horizontal transverse rod extending between and carried by said side frames in downwardly spaced relation with said horizontal bar, a lever of fixed length between said side frames and fulcrumed between its ends on said rod, said lever having two longitudinal side members, an L-shaped sack support frame and means pivoting this frame to the front ends of said lever side members on an axis parallel with said rod and said elevated bar, the vertical portion of said L-shaped sack support frame having a horizontal elevated bar parallel with and forwardly spaced from the aforesaid elevated bar, substantially horizontal linkage of fixed length extending between and connected to said elevated bars, a horizontal sack-support carried by the horizontal portion of said L-shaped sack support frame, a vertical wall at the rear edge of said sack support and secured to said vertical portion of said sack support frame, said sack support and wall serving to support a filled sack in vertical position without necessity of securing the sack, a shaft extending between said side frames over the rear end of said lever, said shaft being provided with two eccentrics spaced apart in the direction of their axis, pitmen connecting said eccentrics with the rear ends of said lever side members, and means for driving said shaft, said eccentrics having only sufficient throw to effect sack packing without upwardly throwing the sack or its contents.

1,924,203
SAND PROTECTED BY-PASS SEAL

John A. Wintroath, Los Angeles, Calif., assignor to Wintroath Pumps, Ltd., Alhambra, Calif., a Corporation of California

Application December 13, 1929
Serial No. 413,758
2 Claims. (Cl. 103—102)

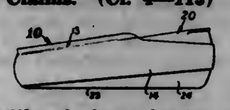


1. A pump of the character described, including: an impeller shaft; an impeller secured to and rotated by said shaft; a casing structure surrounding said shaft and said impeller, said casing structure comprising an inner wall having a bore receiving said shaft above said impeller, an outer wall forming pump passages exterior of said inner wall, and a by-pass passage having communication at its inner end with said bore of said inner wall above said impeller and having communication at the outer end with the exterior of said casing, there being a recess at the lower end of said inner wall forming an entrance chamber leading into said bore; impeller means on the upper end of said impeller for producing a flow of liquid from said entrance chamber toward said pump passages; and sealing means operative to prevent a reverse flow of liquid from said pump passages and around said impeller means into said entrance chamber.

1,924,204
BEDPAN CUSHION

Bessie I. C. Young, Pasadena, Calif.

Application July 28, 1932. Serial No. 625,379
7 Claims. (Cl. 4—113)

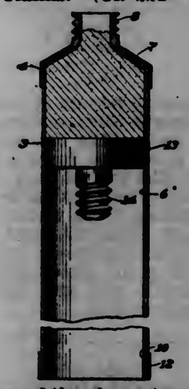


1. For use with a bed pan having a bottom, a side wall and an inturned seat flange spaced from said bottom, a cushion member, said cushion member including a seat portion shaped to conform to the bed pan seat flange and adapted to be positioned thereon, said cushion member including a continuous band of elastic rubber arranged about the periphery of said seat portion and continued therefrom to form a resilient closed loop, said loop being adapted to resiliently engage a bed pan side wall.

1,924,205
CONTAINER FOR SHAVING CREAM, TOOTH PASTE, AND THE LIKE

Henry C. Everett, Jr., Boston, Mass., and Christopher L. Migliaccio, Cranston, R. I., assignors to Old Colony Distributing Company, Boston, Mass., a Corporation of Massachusetts

Application December 24, 1930
Serial No. 504,442
3 Claims. (Cl. 221—78)



1. A container of the character described, comprising a rigid tubular metal shell, a flexible metal tube lining said shell and having a discharge nozzle at one end thereof fastened to the shell, a cap removably supported on said nozzle for closing it and means for permanently securing the opposite end portion of said tube to the shell.

1,924,206
PROCESS FOR THE REMOVAL OF CYANOGEN COMPOUNDS FROM GASES

Christian Johannes Hansen, Essen-Ruhr, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa., a Corporation of Delaware

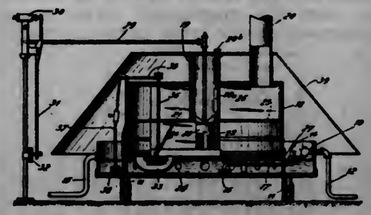
No Drawing. Application January 23, 1931, Serial No. 510,846, and in Germany January 25, 1930
3 Claims. (Cl. 23—76)

1. A process for the removal of cyanogen compounds from gases comprising bringing gases at a temperature above 30° C. and containing cyanogen compounds into contact with an ammonium polysulphide liquor containing polysulphides higher than bisulphides to remove the cyanogen compounds from said gases and maintaining a sufficient excess of the said higher polysulphides in the liquor throughout the washing process to prevent the formation of ammonium monosulphides.

1,924,207
BROODER

William R. Hartung, Des Moines, Iowa

Application November 12, 1931
Serial No. 574,551
5 Claims. (Cl. 119—32)

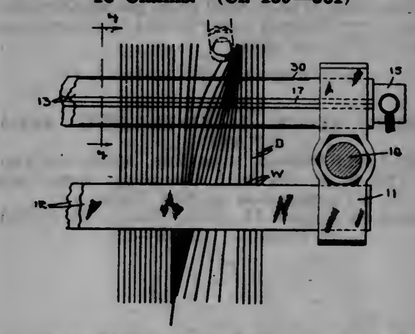


1. In a brooder, the combination of a water pan supported in position to permit chicks to enter under and close to its bottom, a single heater for heating the water in the pan and the air surrounding the pan, an automatic thermostat device operated by the temperature of the water in the pan for controlling the amount of heat applied to the water from the heater, and a second automatic thermostat device operated by the temperature of the air surrounding the water pan for controlling the amount of heat from the heater to be radiated into the air surrounding the water pan.

1,924,208
WARP STOP MOTION

Wilfred C. Howe and Oscar V. Payne, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts

Application February 6, 1931. Serial No. 513,962
13 Claims. (Cl. 139—351)



1. In a warp stop motion, a bar extending transversely of the warp threads, a bank of drop wires, each wire having a slot therein through which the bar extends, and said bar having a roughened surface at its upper edge ineffective to restrain movement of a raised drop wire along the bar but positioned to engage a fallen drop wire and resist movement thereof along the bar.

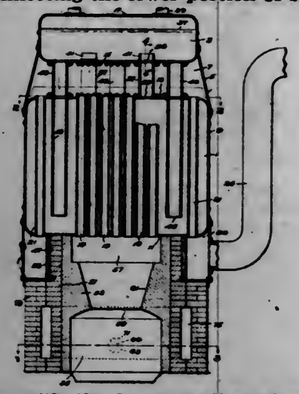
1,924,209
BOILER

Dwight F. Kilgour, Lexington, Mass.

Application October, 13, 1930, Serial No. 488,254
Renewed May 25, 1933
6 Claims. (Cl. 122—121)

1. A boiler having, in combination, means formed to provide upper and lower water con-

tainers with a smoke box between them, vertical fire tubes grouped around the medial axis of said lower container and extending through the latter and opening into said smoke box, a plurality of spaced water conducting tubes connecting the upper portion of said lower container with the lower portion of said upper container, and a plurality of water conducting tubes spaced from said first mentioned water conducting tubes and distributed in the space between said group of fire tubes and the lateral walls of said lower container, said last mentioned water conducting tubes connecting the lower portion of said upper



container with the lower portion of said lower container and being arranged to conduct water from said upper container and discharge it adjacent the lower tube sheet of said lower container at a plurality of points between said group of fire tubes and the lateral walls of said lower container, whereby relatively cold water is caused to flow across said tube sheet inwardly from the exterior of said group of fire tubes and the ascending current of relatively hot water caused by said fire tubes is prevented from materially heating the down-flowing water in said last mentioned water conducting tubes.

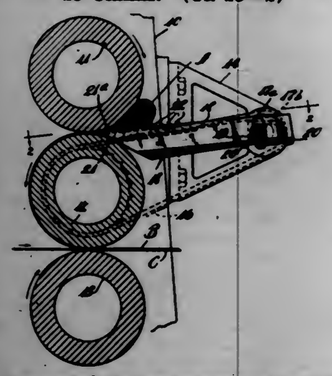
1,924,210

PLASTIC STOCK MANIPULATING APPARATUS

Frank J. MacDonald, Brookline, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York

Application August 15, 1931. Serial No. 557,338

13 Claims. (Cl. 18—2)



13. Apparatus for manipulating plastic stock comprising upper and lower cylindrical rolls and means for feeding stock into the bight between said rolls comprising a pair of stock engaging members each resting against the cylindrical surface of the lower roll and means comprising a pair of angularly disposed cranks engaging said members for reciprocating the same in alternation toward and away from the bight of said elements in sliding engagement with said lower roll.

1,924,211

CYLINDER OIL

Frederick H. MacLaren, Calumet City, Ill., and Thomas H. Rogers, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a Corporation of Indiana

No Drawing. Application December 8, 1930

Serial No. 500,267

12 Claims. (Cl. 87—9)

1. A cylinder oil comprising a heavy steam refined lubricating oil compounded with an asphaltic material and aluminum stearate.

1,924,212

TUFTING BUTTON

Wilfred B. Mathewson, Quincy, Mass., assignor to United Mattress Machinery Company, Quincy, Mass., a Corporation of Maine

Application February 7, 1933. Serial No. 655,588

4 Claims. (Cl. 24—90)



1. A tufting button having struck up from the back thereof a tongue which extends outwardly at an angle to the back of the button and the front edge of which is bent to form a lip extending substantially parallel to said back, the side edges of the tongue being bent outwardly and the side edges of the opening from which the tongue is struck being bent inwardly, said tongue being bendable into closed position in substantially the plane of the back of the button and the bent side edges of the tongue and said opening forming closed cord-receiving eyes.

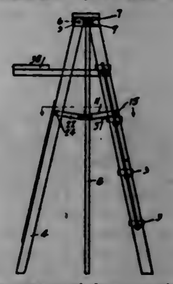
1,924,213

STEPLADDER

William P. Newman, Bucyrus, Ohio

Application October 17, 1929. Serial No. 400,237

1 Claim. (Cl. 228—31)



A step ladder comprising a step member including uprights, a bracing member including uprights, lateral brace members swingingly connected to the upper end of the step ladder for lateral bracing of the step ladder in both directions, a center bracket made up of four right-angled sections arranged to present spaced bars extending toward the respective parts of the ladder, a pair of links pivotally connected between each set of spaced bars projecting toward the step member and bracing members, the links of each pair diverging beyond the center member and being pivotally connected terminally to the uprights of the step member and bracing member respectively, a single link pivotally connected between the bars of the center member and projecting toward and connected to the lateral braces, and an L-shaped stop member having the upright thereof connected to one of the uprights of the step member and the lateral portion thereof in position to underlie and receive one of the links connected to the step member to limit downward movement of such link and thereby position all links at a downward inclination when the parts of the step ladder are in operative position to thus arrange the center bracket below the pivotal connection of the links with the ladder parts.

1,924,214

METHOD OF MAKING ARTICLES FROM RUBBER DISPERSIONS

Edwin B. Newton, Akron, Ohio, assignor to American Anode, Inc., Akron, Ohio, a Corporation of Delaware

No Drawing. Application December 30, 1931

Serial No. 583,915

13 Claims. (Cl. 18—58)

1. In the method of forming rubber articles from a liquid dispersion of rubber by deposition of rubber therefrom directly upon the surface of an impervious mold, the process which comprises the step performed prior to the deposition of the rubber on the mold consisting in applying to the surface of the mold a gas-pervious venting stratum of water-insoluble non-fibrous material capable of separating the layer of deposited rubber from the mold.

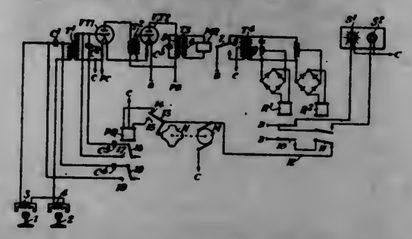
1,924,215

RAILWAY TRAFFIC CONTROLLING APPARATUS

Frank H. Nicholson, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania

Application October 17, 1932. Serial No. 638,062

7 Claims. (Cl. 246—63)



1. In combination, a stretch of railway track the rails of which are supplied with current of a first frequency, a train control receiver in inductive relation with said rails and tuned for admitting induced current of said first frequency, a train governing device controlled by current induced in said receiver in such manner as to assume a first or a second condition in accordance with the presence or absence of said induced current, and means controlled by said device when the device assumes said second condition for automatically altering the electric tuning of said receiver to admit induced current of a second frequency for controlling said device.

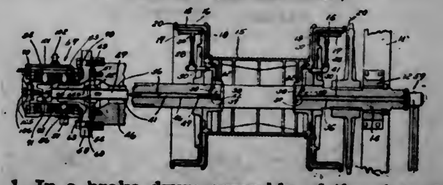
1,924,216

WATER-COOLED DRUM SHAFT ASSEMBLY

David M. Smith and Guglielmo Tremolada, Los Angeles, Calif., assignors to Emsco Derrick & Equipment Company, Los Angeles, Calif., a Corporation of California

Application April 15, 1932. Serial No. 605,462

6 Claims. (Cl. 188—264)



1. In a brake drum assembly of the class described, the combination of: a shaft; a brake drum means secured to said shaft and providing a fluid passage, the inlet and the outlet ends thereof being adjacent said shaft; walls defining a shaft opening in said shaft from one end thereof, having a seat therein, and openings connecting to said shaft openings on opposite sides of said seat, one being connected to said inlet end and the other to said outlet end; a tube inserted into said shaft opening having the end thereof prepared for engagement with said seat, said tube dividing said shaft opening into an inlet shaft passage and an outlet shaft passage, one of which is around said tube and the other of which is within said tube; a body secured to the end of said shaft having inner and outer body passages which are in communication with said inlet and outlet shaft passages; and a shell surrounding said body and providing an inlet and an outlet chamber in communication with said inner and outer body passages, said body being rotatable within said shell.

1,924,217

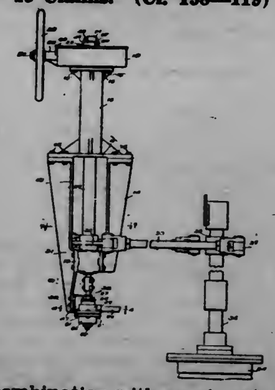
AIR AND FUEL CONTROL

Arthur L. Stevens, Evanston, Ill., assignor, by mesne assignments, to Arthur L. Stevens Corporation, Chicago, Ill., a Corporation of Delaware

Application September 29, 1928

Serial No. 309,179

19 Claims. (Cl. 158—119)



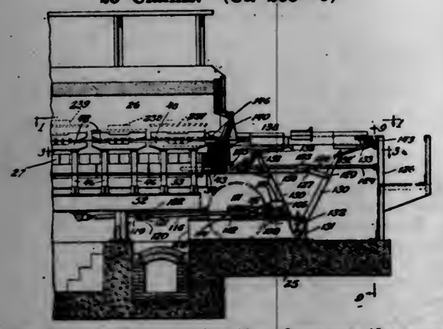
1. The combination with an air valve, of a fuel valve, an air valve control shaft, a segment secured thereto, means for operating said segment to oscillate said shaft, a fuel valve shaft, and means for operating said fuel valve shaft from said segment in unison with the operation of the air valve shaft.

1,924,218

CONTINUOUS HEAT TREATING FURNACE

Arthur L. Stevens, Evanston, Ill., assignor, by mesne assignments, to Arthur L. Stevens Corporation, Chicago, Ill., a Corporation of Delaware

Application November 23, 1931
Serial No. 576,634
25 Claims. (Cl. 263—6)

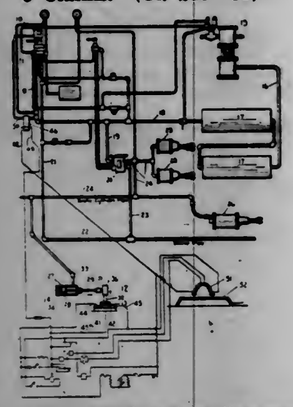


12. In a continuous heating furnace, the combination of a sectional hearth having spaced apart openings between the sections, sealing members mounted for sliding movement in said spaces, mechanism for moving charges along said hearth from the opening to the discharge end of said furnace, a pair of doors at the charging end of said furnace, mechanism for placing charges in said furnace alternately through said doors.

1,924,219

TRAIN CONTROL SYSTEM

Hermand P. Trombetta, New Hartford, N. Y.
Application June 8, 1932. Serial No. 616,678
6 Claims. (Cl. 246—63)



1. In a train control system the combination of a signal element on the ground, air brakes and air pipes therefor upon the train including air pipes the pressure in which is changed when the air brakes are applied, means normally operable by the engineer for controlling said air brakes, means actuated by said element for automatically bringing the air brakes into operation and stopping the train and rendering inoperative the engineer's control, a re-set switch adapted to restore to operation the engineer's control system, an air-controlled locking device for said re-set switch and conduits operatively connecting said locking device with said changing-pressure air pipes whereby said locking device holds said re-set switch locked during an automatic application of the brakes and unlocks the re-set switch upon the completion of such automatic application.

1,924,220

METHOD OF MAKING LAMP DOOR RIMS

Edward Turnquist, Anderson, Ind., assignor to Guide Lamp Corporation, Anderson, Ind., a Corporation of Delaware

Application January 6, 1930. Serial No. 418,912
7 Claims. (Cl. 219—10)

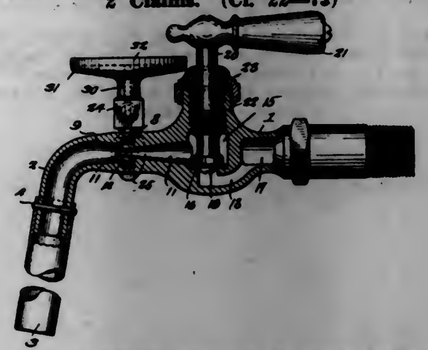


3. The method of joining abutting end portions of sheet metal which consists in shaping the abutting end portions so as to form corrugations therein, the valleys of which decrease in depth proceeding from the end edge, the corrugations being so located that, when the end portions are located in abutting relation, the valleys and ridges of one portion will be directly opposite the ridges and valleys respectively of the other end portion thereby providing interrupted end surfaces in abutment alternating with end portions in different planes, and in pressing together the abutting portions so located while passing a welding electric current between them in order to soften the material at the abutting end surfaces so as to permit one end portion to be pushed into the other, the corrugation ridges of one end portion being pushed against valleys of the other so that the ridges will become lap-welded to the valleys.

1,924,221

CASTING MACHINE

Arend Vyn, Grand Haven, Mich.
Application May 10, 1932. Serial No. 610,515
2 Claims. (Cl. 22—73)



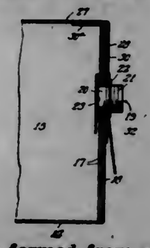
1. In a casting machine, a faucet having a liquid conduit and a suction conduit branched off from the liquid conduit, means incorporated in the faucet for creating suction in the suction conduit when liquid flows through the liquid conduit, means for controlling the flow of liquid through the liquid conduit, a valve journaled in the faucet and interposed in the suction conduit, the valve having a substantially rigid lateral handle, and a mold carrier mounted on the handle, the mold carrier having an orifice whereby suction may be applied to a mold on the carrier, the suction conduit being continued through the handle, to the orifice of the mold carrier, the valve controlling the suction conduit when the valve is operated by means on the handle.

1,924,222

CONTAINER

Harrison B. Walter, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a Corporation of Illinois

Application February 11, 1931. Serial No. 514,959
9 Claims. (Cl. 229—47)



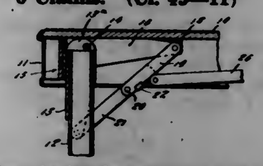
5. A container formed from a blank of sheet material having apertured flaps adapted to be held together by a two part cap member said member comprising male and female parts, each having a flange, the flange of the male part contacting the inner surface of one wall of the container and adapted to be received within the female part, the flange of which contacts the opposed surface of the said wall and means for preventing contact between the contents of the container and the flange on the male part, said means comprising an apertured tag or the like engaged with the male part to hold a portion of the tag against the side of the container and an extended portion on the tag adapted to be folded over to cover the flange of the male member.

1,924,223

TABLE

James F. Weatherly, Miami, Fla., assignor to H. G. Higgins, Miami, Fla.

Application October 1, 1931. Serial No. 566,336
8 Claims. (Cl. 45—11)



1. A folding device for use on tables and other articles of furniture comprising, with a supported member having legs foldably associated therewith, an actuating member oscillatably mounted on the supported member, and toggle brace links operatively associated with said legs and with the actuating member to be simultaneously operated by movement of said actuating member to open the legs as said member is oscillated in one direction and to fold the legs as the member is oscillated in a reverse direction, said links being connected and mounted to brace and support the legs in the extended opened position directly until one of the braces is manually upset and released.

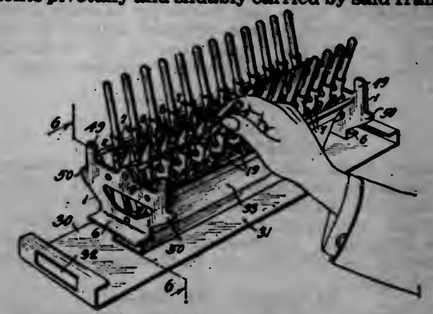
1,924,224

STICK GRIPPING AND CENTERING APPARATUS FOR FROZEN CONFECTIONS

John W. West, New York, N. Y., assignor, by mesne assignments, to Good Humor Corporation of America

Application October 10, 1932. Serial No. 637,194
14 Claims. (Cl. 107—8)

1. A gripping unit for the manufacture of frozen confections, which comprises an expansible and contractible frame, a plurality of gripping elements pivotally and slidably carried by said frame,



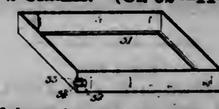
and means for automatically spacing said gripping elements equi-distantly on said frame in all expanded and contracted positions of the same.

1,924,225

REFRIGERATOR OF BRINE-CIRCULATION SYSTEM

Kanichi Yamane, Shimisuzaka, Kifune-Cho, Shimonoseki-Shi, Yamaguchi-Ken, Japan

Application January 16, 1933, Serial No. 652,052, and in Japan August 16, 1932
2 Claims. (Cl. 62—114)



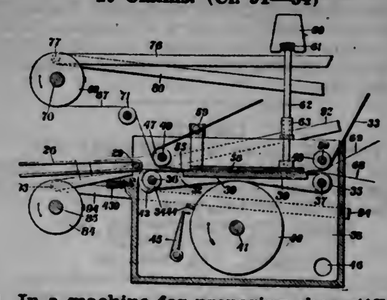
2. In a refrigerator of brine-circulation system of the kind described, a tank for circulating cold brine therein which is made by enclosing a frame made by bending a pipe in four-sided shape with sheet metals and provided with a number of stiffeners attached alternately to said sheet-metals forming side walls of the tank so as to form a number of conduits in the tank and inlet and outlet casings communicating with said conduits through inlet and outlet holes provided in the side walls of the tank respectively and having divisional guide plate for securing the uniform circulation of brine throughout the conduits.

1,924,226

METHOD OF AND MACHINE FOR PREPARING SHOE STIFFENERS

David Baird Macdonald and Roland Baird Macdonald, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey

Application September 23, 1930, Serial No. 483,872, and in Great Britain October 3, 1929
10 Claims. (Cl. 91—54)



1. In a machine for preparing shoe stiffeners, the combination of moving bands of flexible sheet

material co-operatively related to apply a stiffening substance and pressure to a stiffener blank fed between them, and means for causing a progressive increase of the pressure applied by said bands during the application of the stiffening substance as the blank proceeds between them.

1,924,227

ARTIFICIAL RUBBER

Walter Bock and Eduard Tschunkur, Cologne-Mulheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany

No Drawing. Application September 12, 1929, Serial No. 392,268, and in Germany September 21, 1928

15 Claims. (Cl. 260—6)

1. Process which comprises emulsifying a butadiene hydrocarbon with water and a salt of an organic base as an emulsifying agent and then polymerizing the butadiene hydrocarbon to form a latex-like emulsion.

14. Process which comprises polymerizing a compound of the formula:



wherein x means hydrogen or methyl, in emulsion with water and a salt of diethylamino-ethyl-oleylanilide.

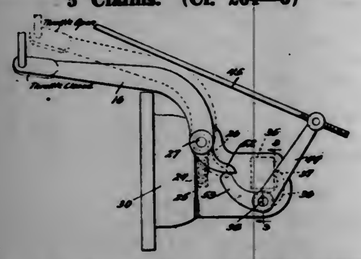
1,924,228

GOVERNOR CONTROL

Arthur A. Bull, Detroit, Mich., assignor to Handy Governor Corporation, Detroit, Mich., a Corporation of Michigan

Application April 20, 1931. Serial No. 531,518

5 Claims. (Cl. 264—3)



1. In a governor for an internal combustion engine, in combination, a governor control spring, a sliding abutment therefor, stop means limiting the movement of said abutment in the release direction, controlling means operable from a distance to rapidly adjust the position of the abutment to change the governed speed of the engine, and means to positively close the engine throttle upon movement of said controlling means beyond the position in which the abutment engages the stop means.

1,924,229

ENGINE STARTING APPARATUS

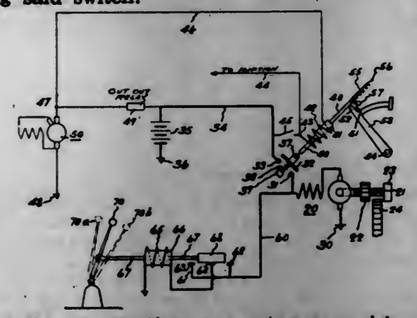
Charles Hall Davis, Jr., Anderson, Ind., assignor to Delco-Remy Corporation, Anderson, Ind., a Corporation of Delaware

Application September 14, 1931

Serial No. 562,653

2 Claims. (Cl. 290—36)

1. Engine starting apparatus comprising, in combination, a storage battery, a generator for charging the storage battery, a starting motor, a transmission gear shift lever, an electromagnetic device for shifting the gear shift lever to neutral position, and manually controlled means for causing the starting motor and said electromagnetic device to operate, said device comprising an electromagnet winding and a switch for controlling the circuit of said winding and means operated by the shifting of the gear shift lever into neutral position for opening said switch.



2. Engine starting apparatus comprising, in combination, a storage battery, a generator, a cut-out relay for connecting the battery and generator, a transmission clutch pedal, a starting motor, a switch for connecting the battery and motor and electromagnetic means for actuating said switch and for moving the pedal into clutch disengaging position said means comprising an armature operating upon the switch and pedal and a coil connected at one end between the generator and cut-out relay, and a manually operable switch for connecting the battery directly with said coil.

1,924,230

METHOD OF MAKING BUSHINGS FROM STRIP METAL

James H. Davis, Dayton, Ohio, assignor to Moraine Products Company, Dayton, Ohio, a Corporation of Ohio

Application January 14, 1932. Serial No. 586,509

4 Claims. (Cl. 29—149.5)



1. In a method of making bearings, the steps comprising: marking off a bearing blank from a strip of sheet metal by a transverse groove extending only partly through the thickness of said blank, then curling the ends of said blank in progressive curling operations to form a bushing therefrom, said blank being progressively sheared from said strip along said transverse groove by said progressive curling operations.

1,924,231

SHOCK ABSORBER

Lewis H. Davis, Dayton, Ohio, assignor to Delco Products Corporation, Dayton, Ohio, a Corporation of Delaware

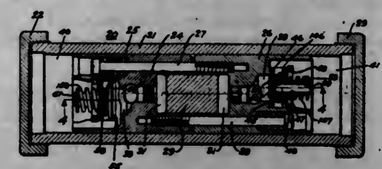
Application November 20, 1931

Serial No. 576,289

3 Claims. (Cl. 188—88)

1. A shock absorber having a cylinder in which a piston is reciprocably supported, said piston

having a passage providing for the transfer of fluid from one side of the piston to the other; a valve-seat in the piston; a valve mechanism adapted to control the flow of fluid through said piston passage in both directions said valve mechanism comprising a disc valve having a



tubular body portion provided with an outwardly extending flange yieldably urged against the valve-seat, the surface of said flange engaging the valve-seat having spaced humps providing spaces between the valve-flange and valve-seat; and a pressure release valve slidably supported in the tubular body portion of the disc valve.

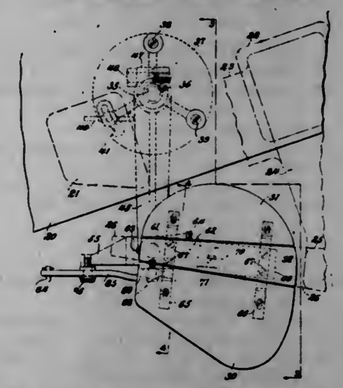
1,924,232

SEWING MACHINE

Charles W. Dowd, Highland Park, N. J., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y., a Corporation of New York

Application February 19, 1929. Serial No. 341,109

15 Claims. (Cl. 112—260)



1. The combination with a sewing machine having a work-arm, of means movable to position in relation to said work-arm to constitute a flat-bed; supporting means movably supporting said movable means, a movable part adapted to be actuated by the operator of the sewing machine; and a movable connection from said part to said movable means to effect movement of the latter to said position to constitute a flat-bed.

1,924,233

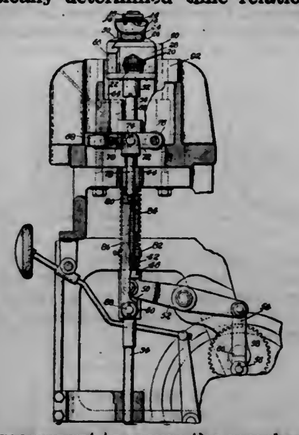
SHOE REST MECHANISM

Fred C. Eastman, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey

Application April 8, 1931. Serial No. 528,610

27 Claims. (Cl. 12—123)

1. In a shoe machine, a shoe rest comprising a group of members relatively movable in response to pressure of a shoe thereon to conform to the contour of the shoe, a holder for said members, means for effecting relative movement of said holder and the shoe to cause the members to conform to the contour of the shoe, and mechanism constructed and arranged to operate in automatically determined time relation to said



relative movement to secure the members in fixed relation to the holder.

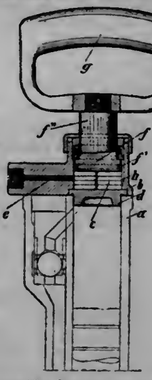
1,924,234

PNEUMATIC CUSHION DEVICE

Fritz Faudi, Dusseldorf-Oberkassel, Germany, assignor to Messr. Ehrenreich & Cie, Dusseldorf-Oberkassel, Germany, a partnership of Germany

Application March 22, 1932, Serial No. 600,506, and in Germany June 25, 1931

7 Claims. (Cl. 121—36)



1. In a pneumatic hammer, a head containing a cushioning chamber having an inlet for compressed air, a member to be cushioned with respect to said head, a piston reciprocable in said chamber and adapted to close said inlet before reaching one end of its stroke, said piston being also by-passed by a groove in the chamber wall connecting the chamber spaces on opposite sides of the piston, and means connecting the piston with said member, said piston throttling the groove which is closed by the piston after the inlet is closed and before the piston reaches the end of the chamber.

1,924,235

TRUCK AND TRAILER COUPLING MECHANISM

Robert A. Fontaine, Martinsville, Va.

Application July 28, 1930. Serial No. 471,255

10 Claims. (Cl. 280—33.44)

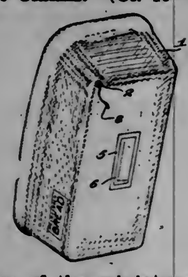
1. Means for coupling a towing vehicle and a trailer, comprising a tongue including a rear

portion pivoted on the trailer for movement about a horizontal axis and including a forward portion connected to the rear portion for movement with respect thereto about its longitudinal axis only, retaining means on the towing vehicle,



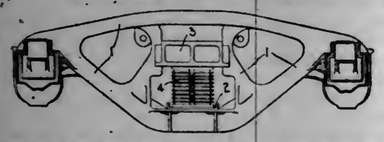
and windlass operated means on the towing vehicle guidably engageable beneath the tongue and connectible therewith at a point spaced from its end for engaging the tongue with the retaining means.

1,924,236
BALLOON
Mayo Friedberg, Chicago, Ill.
Application September 21, 1931
Serial No. 564,221
10 Claims. (Cl. 40—127)



1. A balloon of the miniature type described, having a weight-receiving pocket on the wall thereof adapted for the reception of different sized weights, and weight means for said pocket for maintaining the balloon at a predetermined distance from the ground or basic surface.

1,924,237
BOGIE TRUCK FOR RAILWAY AND LIKE VEHICLES
Richard Thomson Glascodine, London, England
Application September 23, 1929, Serial No. 394,514, and in Great Britain July 10, 1929
3 Claims. (Cl. 267—63)

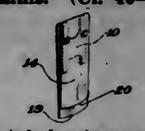


1. In a railway car truck, diamond-shaped side frames, a spring plank connecting the same, a bolster interposed between the side frames, and spring structures interposed between the spring plank and the bolster, each spring structure including a series of superposed units, each unit comprising flat blocks of india rubber moulded in spaced relation on both sides of a reinforcing plate united by india-rubber passing through perforations in said reinforcing plate, and plates interposed between said units having ribs disposed to occupy the spaces between the rubber blocks.

1,924,238
CELLULOSE SOLUTION AND CELLULOSE DERIVATIVE AND PROCESS OF MAKING SAME
Charles Graenacher, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application September 17, 1931, Serial No. 563,465, and in Switzerland September 27, 1930
14 Claims. (Cl. 260—101)

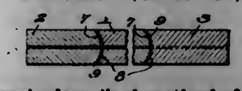
1. Process for the production of cellulose esters, consisting in treating solutions of cellulose in liquid solutions of quaternary ammonium salts obtained by addition of a halogen hydracid ester of an alcohol containing not more than 8 carbon atoms to a tertiary amine of the pyridine series, with acylating agents.

1,924,239
INDICATOR TAB
Leland S. Graff, Arlington, and Robert A. Stewart, Watertown, Mass., assignors to George B. Graff Company, Cambridge, Mass., a Corporation of Massachusetts
Application January 27, 1932. Serial No. 589,074
13 Claims. (Cl. 40—23)



1. An indicator tab having an underlying clip member of springy material in the form of a strip of such material terminating in narrower extended end portions and folded upon itself, and attached thereto an overlying indicator member consisting of a strip of inelastic material, projections of the clip member piercing the indicator member and being bent back thereon to rigidly secure the clip member thereto.

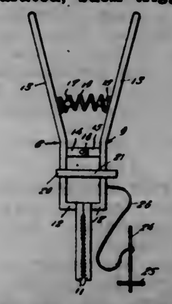
1,924,240
COMPOUND LUMBER AND METHOD OF MAKING SAME
Robert H. Harwell, Lewisburg, Tenn., assignor to Cyrus C. Houston, Lewisburg, Tenn.
Application March 5, 1930. Serial No. 433,387
5 Claims. (Cl. 20—91)



1. The herein described method of making compound lumber, which consists in assembling strips end for end and edge to edge and gluing the strips together into a slab whereby each face of each panel comprises the continuous faces of said strips, then severing the slab in the plane thereof and dividing it into panels of less thickness than the slab, and then longitudinally rabbeting the opposite longitudinal edges of the panels.

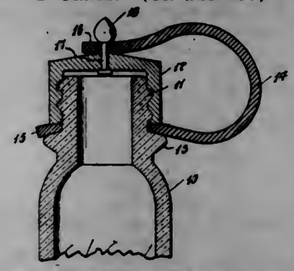
1,924,241
MOLE TRAP
John Hassler, Parkersburg, W. Va.
Application February 26, 1932. Serial No. 595,381
1 Claim. (Cl. 43—94)

A trap of the class described comprising a pair of members each comprising an elongated handle part, a U-shaped jaw part and a short outwardly extending part connecting the central portion of the bight of the jaw part with the handle part, means for pivotally connecting together the handle parts intermediate their ends, a U-shaped guiding member having its bight passing across and connected with the outer face of one of the handle parts with its limbs straddling the handle parts, a spring located between the handle parts for holding the jaw parts in closed position, trigger means for holding the jaw parts separated, such trigger means com-



prising a plate having recesses in the corners thereof at one end thereof and the bight parts of the jaw members having keeper recesses therein, the inner corner walls of which are adapted to engage walls of the recesses in the plate for holding the jaw parts separated with the plate located in the space between the jaw parts, laterally extending pins passing through the plate adjacent the recesses therein and bridging the plate keeper recesses of the jaw parts.

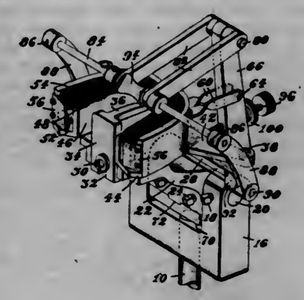
1,924,242
CLOSURE CAP SECURING DEVICE FOR CONTAINERS
John W. Kaye, Luling, Tex.
Application July 30, 1932. Serial No. 626,974
1 Claim. (Cl. 215—99)



A closure cap securing device, comprising in combination with a container having a neck, a circumferential flange on said neck, a closure cap for application to said neck, a conical-shaped button on said cap, a strip of flexible and compressible material having a loop on one terminal seated on said flange and surrounding the neck, said loop providing a gasket for the cover to seal the container, and the strip provided with an opening adjacent to its other terminal to receive said buton and hold the cap when removed from the neck, the material of the strip being stretchable to pass over the head of the button.

1,924,243
MACHINE FOR APPLYING HEEL COVERS
Norwood H. Knowlton, Rockport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey
Application March 6, 1931. Serial No. 520,676
23 Claims. (Cl. 12—42)

1. In a machine for applying heel covers, the combination of means for wiping a projecting marginal portion of a cover over the upper edge of a heel, and means for pressing the wiped over cover into contact with the attaching face of the heel, said means being constructed and ar-



ranged to act at a substantial angle to the upper edge of the heel along the rear and side edges of the heel upon relative movement of the heel and said means.

1,924,244
PROCESS FOR IMPROVING NICKEL-TIN-ALLOYS
Werner Köster, Dortmund, Germany, assignor to Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany
No Drawing. Application March 9, 1931, Serial No. 521,392, and in Germany July 4, 1930
2 Claims. (Cl. 148—11.5)

1. A process for obtaining alloys of high hardness consisting in forming an alloy of 5 to 25% of tin and the balance chiefly nickel and heating said alloy to a temperature lying between 900° C. and the melting point of the alloy, then rapidly cooling said alloy and subsequently annealing it at temperatures between 400 and 800° C.

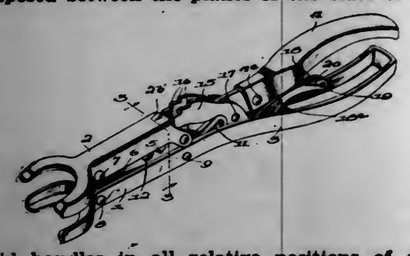
1,924,245
PROCESS FOR IMPROVING NICKEL-MOLYBDENUM ALLOYS
Werner Köster, Dortmund, Germany, assignor to the firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany
No Drawing. Application March 9, 1931, Serial No. 521,394, and in Germany July 4, 1930
2 Claims. (Cl. 148—11.5)

1. A process for obtaining alloys of high hardness consisting in forming an alloy of 8 to 30% of molybdenum and the balance chiefly nickel and heating said alloy to a temperature lying between 900° C. and the melting point of the alloy, then rapidly cooling said alloy and subsequently annealing it at temperatures between 400 and 800° C.

1,924,246
SPRING COMPRESSOR
Harry W. Kulp and Martin C. Dellinger, Lancaster, Pa.
Application October 27, 1932. Serial No. 639,912
5 Claims. (Cl. 29—86.3)

1. A spring compressing tool comprising a main lever member having a jaw portion and a handle portion, a jaw member, an actuating lever member extending through said jaw member and pivotally connected to said main lever member, and a pair of cross levers crossing said actuating lever and being respectively disposed

substantially in sliding contact therewith on opposite sides thereof and pivotally connected therewith, said cross levers being pivotally connected to said jaw member and slidably pivotally connected to the said main lever member, and the said jaw member and actuating lever having cooperating engaging surfaces whereby the jaws of said main lever and of said jaw member will be maintained substantially parallel throughout the range of relative movement between said main lever and said actuating lever, in combination with a bifurcated locking member having a rearwardly extending release lever disposed between the planes of the sides of the



said handles in all relative positions of said handles, and a bifurcated U-shape wire spring having its loop extending through said release lever and with its furcations straddling and gripping the actuating lever and bearing against the handle secured thereto to force said release lever to locking position, said locking member having a bifurcated portion straddling said actuating lever and having its furcations respectively located between the sides of said actuating lever and the opposed faces of said jaw member and having the forward end edges of said furcations formed with a plurality of stop faces to engage the rear edge of said jaw member.

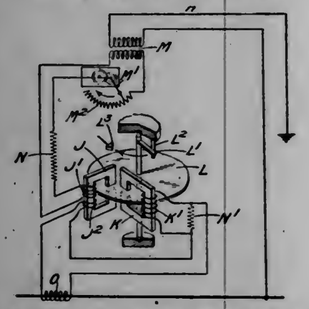
1,924,247

ELECTRIC PROTECTIVE SYSTEM AND RELAY FOR USE THEREIN

Henry Leben, Newcastle-upon-Tyne, and Norman Cooke, Sunderland, England, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a Company of Great Britain

Application June 17, 1929, Serial No. 371,484, and in Great Britain June 25, 1928

22 Claims. (Cl. 175—294)



1. In an electric protective relay of the kind in which the time of operation of the relay is dependent on the ratio of two operating currents, the combination of an electromagnetic contact-making device energized in accordance with the operating currents, a timing member, means whereby movement of the timing member from a normal position to a position dependent on the ratio of the two operating currents controls the electromagnetic device and thereby determines the time of operation of the relay, and timing mechanism for driving the timing member at a speed independent of the operating currents, the timing member being initially set at a position corresponding to a predetermined ratio value whereby when the ratio of the two operating currents is less than such predetermined value the relay operates substantially instantaneously without movement of the timing member from its initial position, while when the ratio of the two operating currents exceeds such predetermined value the timing member is driven from its initial position to determine the time of operation of the relay.

1,924,248

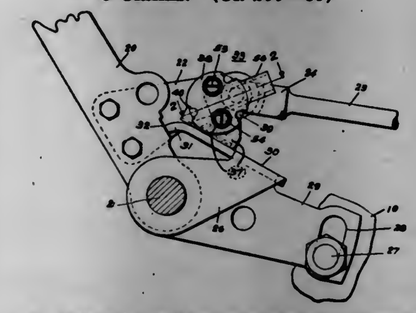
SWITCH MECHANISM

Albert R. Lewellen, Detroit, Mich., assignor to Delco-Remy Corporation, Anderson, Ind., a Corporation of Delaware

Application September 25, 1931

Serial No. 565,029

6 Claims. (Cl. 200—59)



1. A switch actuator mechanism comprising in combination: a switch having a lever to actuate a circuit closing mechanism; a pedal; a rod; and means connecting said rod with said pedal, said means cooperating with said lever to actuate said circuit closing mechanism on movement of said pedal.

1,924,249

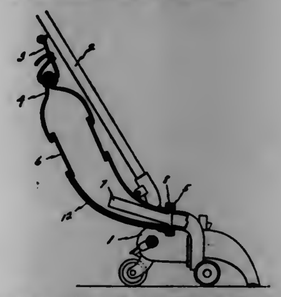
DUST BAG

Margaret Marshall, Vancouver, British Columbia, Canada

Application September 12, 1932

Serial No. 632,853

3 Claims. (Cl. 183—51)



1. In a paper dust bag for vacuum cleaners having an air vent, comprising in combination therewith an elongated discharge spout extending inwardly of said bag, said spout having its outer end turned approximately right angularly to form a flange, a restricted bottom portion to said bag adapted to fit snugly around said discharge spout and to reinforce said flange, a binding and reinforcing strip wrapped around the restricted bottom portion of said bag surrounding said spout and having one edge turned angularly to build up and reinforce said flange, a reinforced bottom layer to said bag positioned to receive the impact of the incoming air stream and dust contents from said vacuum cleaner, an open top to said bag, and means to close said top to comprise a dust-proof joint, and means to hang said top to the handle of a vacuum cleaner.

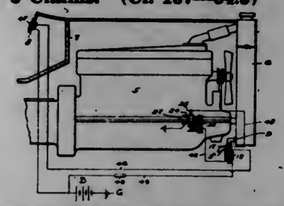
1,924,250

AUTOMATIC DRAIN VALVE

Irving J. McGuire, Dolgeville, N. Y., assignor of thirty one-hundredths to Fred W. Walden, Toledo, Ohio

Application May 17, 1932. Serial No. 611,895

3 Claims. (Cl. 137—34.3)



1. A valve of the character described, comprising a solenoid magnet having a tubular core, a fluid discharge nozzle having a valve seat, coupling means between the nozzle and core, a valve rod operable through said core and carrying a valve at its upper end for normal engagement with said seat, said rod formed of non-magnetic material and carrying a magnet head at its lower end, a spring for normally retaining the valve in closed position, a latch for engaging and holding the valve rod in its open position, a magnet for releasing the latch, a circuit maker and breaker for said solenoid magnet operable under the expansive influence of a body of freezing liquid, and an independent circuit for releasing said latch and restoring said maker and breaker to normal position.

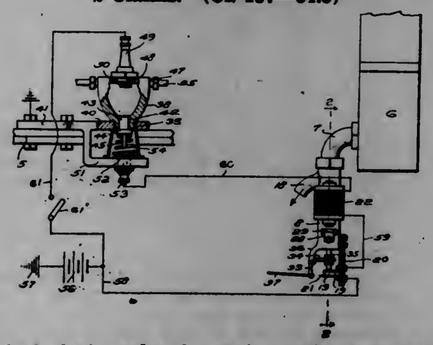
1,924,251

AUTOMATIC DRAIN VALVE

Irving J. McGuire, Dolgeville, N. Y.

Application October 6, 1932. Serial No. 636,569

2 Claims. (Cl. 137—34.3)



1. A drain valve for water systems operable under the influence of a freezing temperature comprising an electric circuit closer and an electric circuit, a reciprocatory valve having a stem, a spring for projecting said valve to drain position, latch means engageable with said stem for retaining said valve in retracted position, an electric magnet for operating said latch, separable spring contacts engageable by said stem for completing a circuit to said magnet, said spring contacts adapted to separate and interrupt the circuit to said magnet upon the energization thereof for releasing of said valve and means for resetting said valve to latched position.

1,924,252

ELECTRIC SWITCH

Harry E. Norviel, Anderson, Ind., assignor to Delco-Remy Corporation, Anderson, Ind., a Corporation of Delaware

Application December 30, 1931, Serial No. 583,893. Renewed July 30, 1932

11 Claims. (Cl. 200—11)



1. In an electric switch the combination comprising; a housing having a back carrying stationary contacts; a contact carrier; a contact plate having bosses adapted to engage said stationary contacts slidably supported upon said carrier; a coiled spring interposed between said carrier and plate urging said bosses against said switch back, said spring having one side longer than the other to provide an even tension upon said bosses against said back; and means for rotating said bosses into engagement with said stationary contacts.

1,924,253

CONDENSATION PRODUCT FROM UREA AND AN ALCOHOL OR A KETONE AND PROCESS OF PREPARING THEM

Max Paquin, Konigstein-on-the-Taunus, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort - on - the - Main, Germany, a Corporation of Germany

No Drawing. Application September 30, 1927, Serial No. 223,232, and in Germany October 4, 1926

6 Claims. (Cl. 260—2)

1. The process of preparing urea condensation-products, which consists in causing urea and an excess of a lower alcohol being free from aldehyde groups to act upon each other in boiling heat for a prolonged time until constantly oily or resinous products are obtained.

1,924,254

SERVO-BRAKE OF THE CENTRIFUGAL TYPE

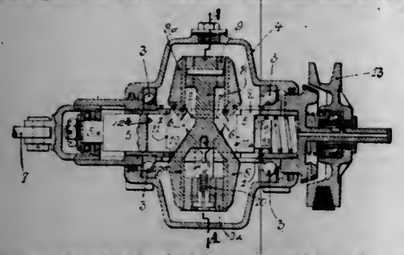
Gerard Pierre Piganeau, Clichy, France

Application January 31, 1928, Serial No. 250,908 and in France February 9, 1927

7 Claims. (Cl. 188—140)

1. A centrifugal servo-brake comprising in combination a rotatable shaft, radial guiding means provided on said rotatable shaft, a sliding member adapted to slide in said guiding means and to rotate with said shaft and provided with a heavy mass and with an inclined surface, yielding means adapted to urge said heavy mass towards said shaft, a brake control

rod adapted to bear on said inclined surface and



yielding means adapted to urge said brake control rod against said inclined surface.

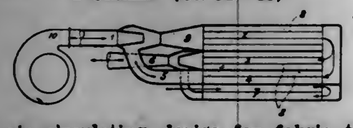
1,924,255

MACHINE FOR TENTERING AND DRYING FABRICS

Emile Prat, Paris, France

Application September 17, 1932, Serial No. 633,656, and in France September 30, 1931

1 Claim. (Cl. 34—48)



An air circulating device for fabric tentering and drying machines, which comprises in combination, a plurality of compartments for the fabric, a single fan, a nozzle for said fan, a choke tube coaxially surrounding said nozzle for connecting it to the end of one of said compartments, means for connecting the end of one of the other compartments to the annular space between said choke tube and said nozzle, a nozzle at the end of a compartment located between the two compartments above mentioned, a choke tube coaxially surrounding the last mentioned nozzle and opening into the atmosphere, means for directly connecting together the other ends of the compartments above mentioned, another compartment for the fabric directly connected to the atmosphere, and means for connecting the last mentioned compartment with the space between the last mentioned nozzle and the last mentioned choke tube.

1,924,256

SELF-FEEDING PENCIL

Henry I. Richards, Cambridge, Mass.

Application August 27, 1931. Serial No. 559,767

10 Claims. (Cl. 120—18)



1. A mechanical pencil including a pencil barrel, a spiral lead magazine therein, a plunger, means for reciprocating the plunger in the said barrel and valve means operable by said plunger for gravitationally releasing lead from said magazine.

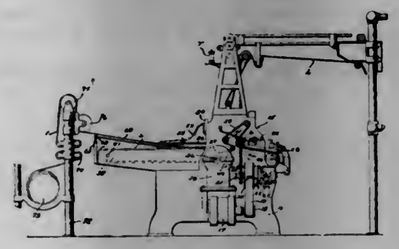
1,924,257

CLOTH FORMING MECHANISM

Frederick N. Ross and Byron F. Everitt, Detroit, Mich., assignors to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan

Application February 1, 1932. Serial No. 590,276

8 Claims. (Cl. 45—138)



4. In an upholstery forming machine, means for advancing a strip of material, and means including a plurality of pairs of endless chains movable with said strip of material and engaging the upper face thereof to form ridges therein.

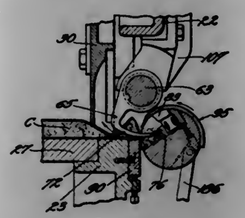
1,924,258

METHOD OF AND MACHINE FOR MANUFACTURING UPHOLSTERY

Frederick N. Ross, Grosse Pointe Park, and Horace L. Johnson, Detroit, Mich., assignors to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan

Application June 21, 1932. Serial No. 618,507

18 Claims. (Cl. 45—138)



3. In a machine for thinning down the edges of upholstery cushions having stuffing interposed between lining and finish fabrics, means for removing a part of the stuffing from the edge of the cushion including a curved finger movable about its axis of curvature to pierce one of said fabrics upon a line in back of the edge thereof and push a part of the stuffing out beyond the edges of said fabrics.

1,924,259

SHUTTLE FOR BADMINTON AND THE LIKE

Addison T. Saunders, Akron, Ohio, assignor to A. G. Spaulding & Bros., New York, N. Y., a Corporation of New Jersey

Application January 26, 1931. Serial No. 511,423

22 Claims. (Cl. 273—106)



1. A shuttle for the game of badminton or the like comprising a head, and a vane consisting of a cone-shaped member of seamless tubular stiffened textile fabric secured to said head.

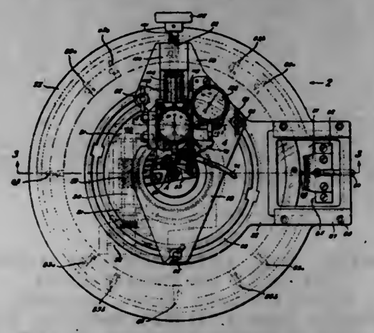
1,924,260

CAM TESTING DEVICE

Leo C. Shippy, Anderson, Ind., assignor to Delco-Remy Corporation, Anderson, Ind., a Corporation of Delaware

Application May 29, 1930. Serial No. 457,238

26 Claims. (Cl. 33—174)



3. A testing device for ignition timer cams comprising, in combination, means for supporting a cam for rotation about its own axis, means for driving the cam, a circuit breaker including a lever and cooperating contacts adapted to be operated by the cam, a main frame supporting the cam support and driving means, a distributing plate for sparking impulse current operated by said cam driving means and rotating substantially coaxially with the cam and carrying pointed conductors, a graduated sector plate carried by the frame and cooperating with said pointed conductors to indicate spark position, a plate supporting the circuit breaker, a second plate supporting the first plate and guiding the latter for movement radially of the cam, and supported by the frame for angular adjustment coaxially with respect to the cam, means for securing the second plate to the frame in various positions of angular adjustment, means for adjusting the first plate relative to the second plate, a gauge for indicating relative movement between the plates, and a gauge attached to the first plate for indicating movement of the lever relative thereto.

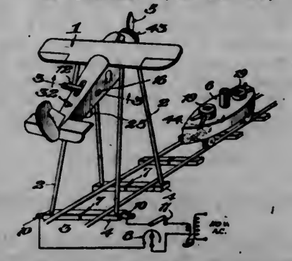
1,924,261

AEROPLANE BOMBING TOY

Louis T. E. Thompson, Dahlgren, Va., assignor of one-third to Henry C. Parker, Washington, D. C.

Application September 3, 1930. Serial No. 479,447

19 Claims. (Cl. 46—50)



1. In an aeroplane bombing toy, the combination of a supported representation of an aeroplane, a releasable, miniature bomb and a bomb sight mounted on said aeroplane, and a target, the said target and the said aeroplane representation being capable of uniform relative motion during the release of said bomb, the said target being adapted to be struck by said bomb.

17. In an aeroplane bombing toy, a bomb-carrying representation of an aeroplane, at least one electrified track running beneath said aeroplane, means for supporting and centering said aeroplane representation above said track, a miniature bomb and a bomb carrying and releasing means mounted in said aeroplane representation, and a target beneath said aeroplane adapted to be struck by said bomb; the said aeroplane representation and the said target being capable of relative motion along the path of said track, at least one of them being supported on said track and being capable of being driven along said track in said relative motion with current supplied from said track.

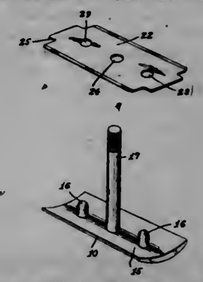
1,924,262

SAFETY RAZOR BLADE

Ralph E. Thompson, Brookline, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware

Original application April 25, 1929, Serial No. 358,114. Divided and this application August 18, 1932. Serial No. 629,321

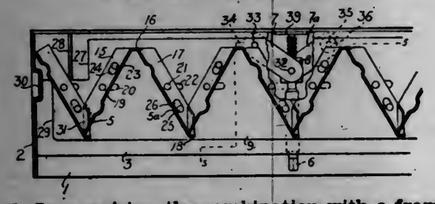
7 Claims. (Cl. 30—12)



1. As a new article of manufacture, an elastic, transversely-flexible safety razor blade adapted for use in existing Gillette-type safety razors, said blade having unsharpened ends, being of uniform thickness, requiring external support on both sides for its cutting edge and being internally apertured to provide edges arranged to engage positioning and clamping

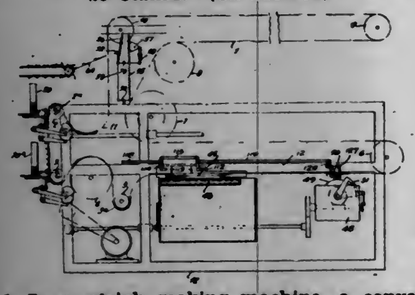
means and hold the blade against angular displacement, and being also provided with reentrant recesses including a rounded portion at the inner angles thereof, located at the corner portions of the blade respectively and each extending both longitudinally and transversely of the blade to such an extent as to span the adjacent corner of the blade-clamping cap when assembled therewith, and to provide a clearance space of sufficient area to receive a cap corner if bent, whereby said blade while being flexed or when clamped cannot be subjected to pressure by a bent cap corner and danger of breaking said blade or distorting its cutting edge is eliminated.

1,924,263
STRAIGHT FLOW VOLUME CONTROL REGISTER
William Thomas Truax, Battle Creek, Mich., assignor to United States Register Co., Battle Creek, Mich., a Corporation of Michigan
Application July 30, 1932. Serial No. 626,859
5 Claims. (Cl. 98—101)



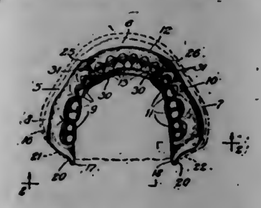
1. In a register, the combination with a frame, of vanes operable in the frame, a threaded key shaft, a threaded block actuated by the key shaft, a movement plate, a slide resting and movable on the movement plate, pivot pins projecting from the movement plate, the said slide being provided with longitudinal slots arranged in engagement with the pivot pins, the said slide having projecting vane turning pins, the said vanes having flanges engaging said pivot pins and provided with lengthwise slots arranged in engagement with said turning pins of the slide, whereby the vanes are turned on the pivot pins when the slide is moved on the movement plate, means for limiting the lengthwise movement of the key shaft, and link plates pivotally connected with the said block and slide and movement plate.

1,924,264
MATCH MAKING MACHINE
Edward Van Hoofstadt, Oceanside, N. Y., assignor to Lion Match Co., Inc., Long Island City, N. Y., a Corporation of New York
Application January 12, 1927. Serial No. 160,575
29 Claims. (Cl. 144—51)



1. In a match making machine, a conveyor mounted to travel and provided with longitudinally spaced match comb holders, feeding means synchronized with the conveyor to feed the combs to the conveyor, ejector means for thereafter ejecting the match combs from a moving portion of the conveyor, said ejector means having an ejector element floatably mounted for travel with the conveyor, whereby it is adapted for movement with the conveyor while ejecting match combs therefrom, and means for causing the conveyor to continuously travel through the zone of the ejector means.

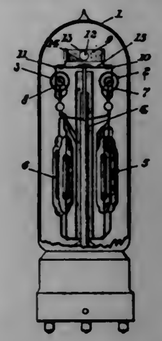
1,924,265
DENTURE
Charles H. Wharton, Seattle, Wash.
Application December 16, 1929
Serial No. 414,295
16 Claims. (Cl. 32—4)



1. A sectionalized lower denture comprising a plurality of tooth carrying denture parts, and means joining said parts for relative up and down movement in the use of the denture in the mouth, said denture parts supplementing each other around the mylohyoid ridge of the mouth and constituting a full lower denture.

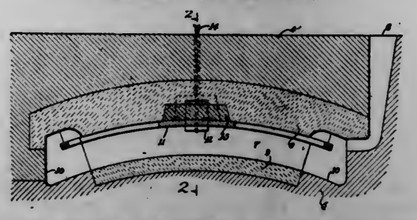
4. A sectionalized lower denture comprising a plurality of denture parts joined for relative movement and constituting a full lower denture, said parts having bases abutting endwise and inclined and one of said parts being disposed and constituting a wedge between the other parts.

1,924,266
PROCESS FOR INTERRUPTING CONNECTIONS IN VACUUM VALVES
Bruno Wienecke, Berlin, Germany
Application October 24, 1928, Serial No. 314,671, and in Germany October 29, 1927
5 Claims. (Cl. 250—27.5)



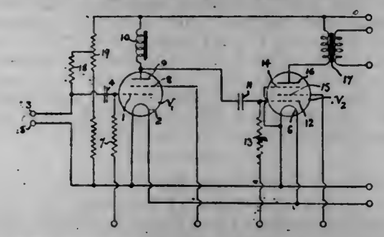
1. In an evacuated vessel, metallic electrodes, a metallic sheet connecting said electrodes, said metallic sheet having a hole in its middle part for being severed by eddy currents induced in said metallic sheet from outside.

1,924,267
METHOD OF MAKING LININGS FOR CASTING MOLD CAVITIES
John D. Aliey, Pittsburgh, Pa., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del., a Corporation of Delaware
Original application August 22, 1929, Serial No. 387,817. Divided and this application July 29, 1932. Serial No. 626,032
4 Claims. (Cl. 25—156)



1. The herein described method of making a lining for a casting mold cavity which consists in mixing comminuted fused silica and a bonding material, forming the mix into shapes and drying the shapes, and then heat treating the shapes at a temperature sufficient to vitrify the bonding material but not sufficient to devitrify the fused silica.

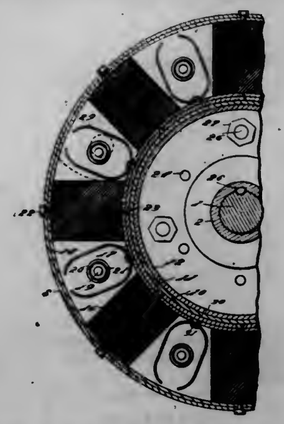
1,924,268
THERMIONIC AMPLIFIER
Cecil Oswald Browne, Ealing Common, London, England, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a Corporation of Delaware
Application October 23, 1929, Serial No. 401,930, and in Great Britain November 17, 1928
5 Claims. (Cl. 179—171)



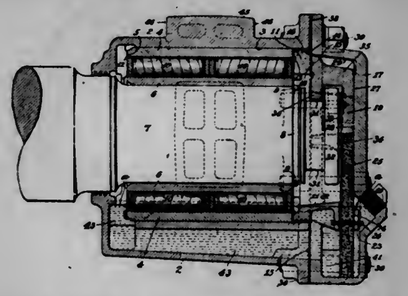
1. The combination, in an audio frequency amplifier, of a screen grid high impedance input valve, impedance coupling means providing an input circuit therefor, a second impedance coupling means providing an output circuit therefor, a power output valve of the pentode type connected with said output circuit whereby said valves are impedance coupled, and adapted to operate in connection with a common low voltage source of anode current, and means adapted to provide a common low voltage source of operating potentials for said valves at values providing relatively low current consumption and relatively high power output in response to signal potentials of relatively low amplitude.

1,924,269
SHOCK ABSORBING WHEEL
William A. Brown, Philadelphia, Pa.
Application October 3, 1932. Serial No. 635,926
20 Claims. (Cl. 152—23)

5. The herein described driving unit having two relative revoluble bodies comprising an inner and an outer annulus, and rubber in initial tension bonded to said annuli and forming a driving cushion between them.



1,924,270
ROLLER BEARING JOURNAL BOX
Albert O. Buckius, Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a Corporation of Ohio
Application October 8, 1927. Serial No. 224,804
9 Claims. (Cl. 308—41)

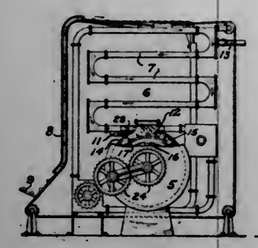


2. In a journal box having roller bearings arranged between the journal and the housing, a removable end closure for the box, and a thrust block having bearings on the journal and seating directly against that portion of the closure which lies opposite the end of the journal, and means on said journal cooperating with said thrust block to take up end thrusts in either direction said closure when applied serving to clamp said thrust block in position.

1,924,271
CAN COOLING AND TRANSFERRING MECHANISM
Frank D. Chapman, Berlin, Wis.
Application November 27, 1931
Serial No. 577,533
19 Claims. (Cl. 257—23)

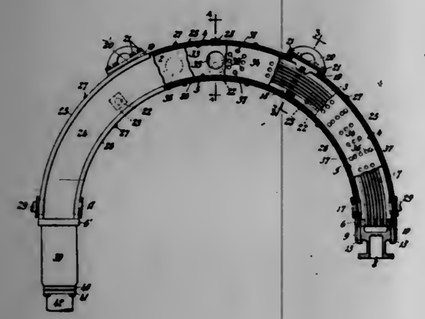
4. A cooling unit comprising, an initial cooler consisting of a zig-zag conduit and means for transporting objects longitudinally therethrough, a second cooler consisting of a casing and means for transporting objects spirally therethrough, and means for directly transferring objects in

succession from the transporting means of said



initial cooler to the transporting means of said second cooler.

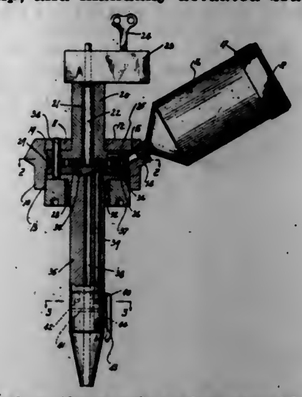
1,924,272
LOCOMOTIVE FEED WATER SYSTEM
Joel S. Coffin, Jr., Englewood, N. J., assignor to C-S Engineering Company, Englewood, N. J., a Corporation of Delaware
Application January 28, 1929. Serial No. 335,404
12 Claims. (Cl. 122—441)



1. In apparatus of the character described, an arcuate heater having a group of water tubes extending lengthwise therein, end enclosures for the heater with means for passing water through the tubes, a steam delivery chamber and a steam distributing chamber extending from end to end in the heater, jet openings spaced along a wall of the distributing chamber from end to end and directed transversely of the group of tubes, and a steam port interconnecting the chambers adjacent the middle of the arc, together with means for feeding steam to the ends of the delivery chamber through said end closures.

1,924,273
STRIPING INSTRUMENT
John M. Christman, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan
Application June 28, 1929. Serial No. 374,363
7 Claims. (Cl. 91—62.6)

1. A striping instrument comprising a container, a nozzle, a pump connected between the container and the nozzle, means for operating the pump, and manually actuated brake means



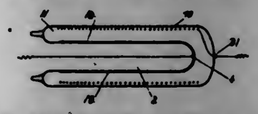
positioned on the nozzle and engageable with the pump for controlling the operating speed thereof.

1,924,274
BAFFLE FOR FURNACES
John W. Franz, St. Louis, Mo., assignor of one-half to Lawrence J. Rasse, Fairbury, Nebraska
Application May 9, 1932. Serial No. 610,214
1 Claim. (Cl. 110—97)



In a furnace having a combustion chamber and a flue leading therefrom, a valve thimble mounted in the flue and extending into the combustion chamber, said thimble having a valve for controlling the escape of the products of combustion into the flue, said valve being adapted for operation by the pressure of the products of combustion within the combustion chamber, and said thimble having a by-pass for the products of combustion disposed between the valve and the flue.

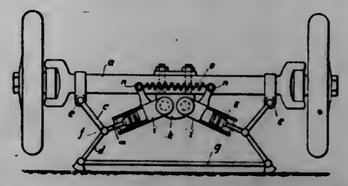
1,924,275
PHOTO-ELECTRIC TUBE
Heinrich H. Geffcken and Hans R. Richter, Leipzig, Germany
Application December 6, 1928. Serial No. 324,107
3 Claims. (Cl. 250—27.5)



1. A photo-electric tube, having a sealed elongated envelope provided with a longitudinal recess, a light sensitive cathode film applied to the surface of said recess within said envelope, and a metallic net applied to the inner surface of said envelope opposite said recess.

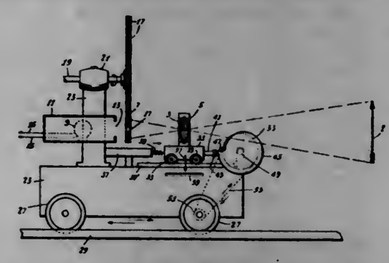
1,924,276
AUTOMOBILE LIFTING MECHANISM
Alfred Gerstenberger, Leipzig, Germany
Application September 7, 1932, Serial No. 631,963, and in Germany November 14, 1931
3 Claims. (Cl. 254—86)

1. An automobile lifting mechanism in combination with the axles of a motor car, comprising arms hingedly connected together and constituting V-shaped pairs of levers which are pivotally fastened to both extremities of said axles, a bar connecting the free ends of the lower lever arms with each other, plates of semicircular shape fastened to the axles in proximity to said pivotal connections, openings in said



plates and an opening in the upper arm of each pair of levers, the said openings being adapted for the reception of a bolt for locking purposes, and means for swinging said lever arms about their pivots into operative position to lift the car or parts thereof above the surface of the ground.

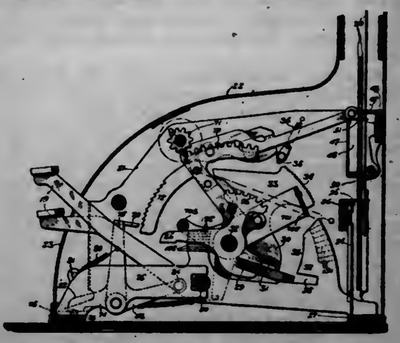
1,924,277
TELEVISION SYSTEM
Alfred N. Goldsmith, New York, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware
Application August 14, 1930. Serial No. 475,187
13 Claims. (Cl. 178—6)



1. In combination, a scanning device for analyzing the varying intensities of light and shadow upon cyclically recurring series of successive elemental areas of a subject of which the image is desired, an optical system associated with the scanning device, means for carrying the said scanning device toward or away from the subject of transmission, and automatic means operable upon movement of said carrying means for maintaining in focus the optical system used in the scanning operation.

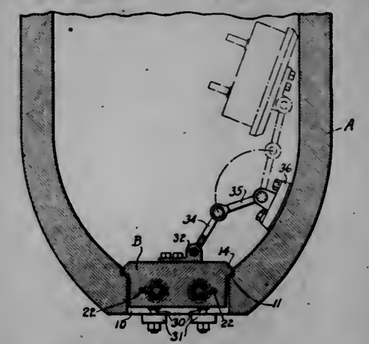
1,924,278
CASH REGISTER
Charles W. Green, Ilion, N. Y., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland
Original application December 19, 1927, Serial No. 241,046. Divided and this application March 15, 1929. Serial No. 347,335
2 Claims. (Cl. 235—131)

1. In a machine of the class described, a plurality of actuating segments having differential extents of movement, serrated portions connected to and movable with said segments, and an overthrow preventer for said segments comprising a pivoted bail having a bar movable edgewise to engage simultaneously the serrated portions



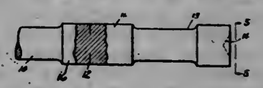
of all of the segments, and means for moving the bail into operative position.

1,924,279
BOILER DRUM
Isaac Harter, New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey
Application March 12, 1927, Serial No. 174,887
Renewed September 29, 1931
7 Claims. (Cl. 220—25)



1. A cover for fitting an opening in a drum from within the drum and comprising a plurality of component parts having contacting faces, dowel pins disposed in holes in said faces, said parts being welded together to form an integral cover, and means for attaching the cover to a drum.

1,924,280
CHAPLET
Louis C. Hobart, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut
Application July 26, 1930. Serial No. 470,922
4 Claims. (Cl. 22—184)



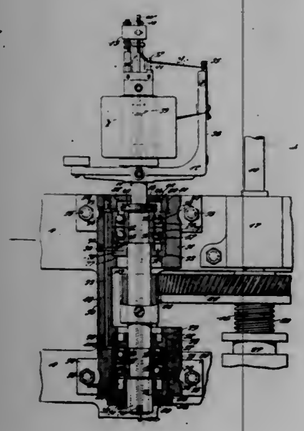
1. A chaplet of the character described comprising a shank and a stem integrally joined together by a frangible connection that consists of break-off nicks, the sides of which are in engagement.

1,924,281
LIQUID SEAL FOR GAS HOLDERS
Konrad Jagschitz, Mainz, Germany, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Nuremberg, Germany, a corporation of Germany
No Drawing. Application April 12, 1930, Serial No. 443,694, and in Germany April 17, 1929
6 Claims. (Cl. 196—149)

1. In a gasholder, a sealing liquid for the seal or seals thereof, consisting of a mixture of coal-tar fractions boiling between over 250° C. and about 450° C. and substantially free from distillation residue containing pitch or dust and also from naphthalene, anthracene, and phenols, said mixture having a specific gravity of about 1.1 and a viscosity between 1.8 and 3.5 Engler degrees (at 50° C.), and capable of withstanding a temperature of about 30° C. without precipitation.

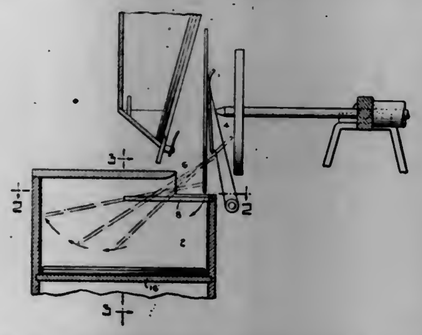
3. The method of producing a sealing liquid for waterless gasholders which comprises distilling coal tar and collecting the fractions distilling over at temperatures between about 210° and 450° C., supercooling such fractions for several days and filtering to remove the anthracene, and re-distilling the product and collecting the fractions distilling between 250° C. and 450° C.

1,924,282
SPINDLE MOUNTING FOR INSULATING MACHINES
Rudolph H. Jenny, Rome, N. Y.
Application June 4, 1929. Serial No. 368,359
4 Claims. (Cl. 308—189)



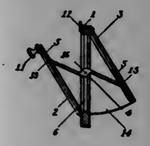
1. In a machine of the type specified, the combination of a vertical flier spindle, a bearing housing for the spindle comprising spaced hubs connected by an integral wall, a pair of adjacent outer ball-races mounted in each hub, a pair of adjacent inner races in each hub carried by the spindle in cooperative relation with the outer races, balls revolvable between said races, a cupped oil-collecting member inserted in the bore of each hub beneath the bearings, a cap closing the opposite end of the bore in the upper hub, a vertical oil duct extending through the wall for connecting the lower bearing with the upper bearing for lubrication by gravity therefrom, and lateral ducts connecting the cupped washers and the main oil duct.

1,924,283
PHONOGRAPH
Lester L. Jones, Oradell, N. J., and Thomas E. Piazze, Brooklyn, N. Y., assignors to Technidyne Corporation, New York, N. Y., a Corporation of New York
Application February 19, 1929. Serial No. 341,080
7 Claims. (Cl. 274—1)



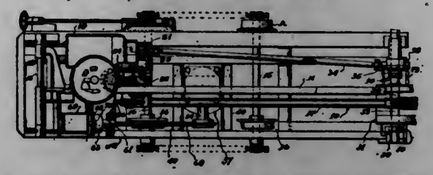
6. A discard magazine for phonograph records comprising a compartment for receiving and storing a plurality of records in vertically stacked relation, the lateral dimensions of the compartment being substantially the same as the diametrical dimensions of the record so that an air pocket is formed beneath a record descending into the compartment in a horizontal position, a record entrant opening adjacent the top of said compartment and means associated with said opening for constrainingly directing a record deposited into the opening from an upright position into a horizontal position whereby the subsequent descent of the record into the compartment is cushioned by the air therebeneath, the said means comprising a section of an annular member positioned at the said entrant opening of the compartment.

1,924,284
DOUBLE WINDOW OR WINDOW VENTILATOR
Wilbur Henry Kohler, Montclair, N. J.
Application March 2, 1932. Serial No. 596,221
2 Claims. (Cl. 98—99)



1. A device of the class described comprising a screen frame, a window hingedly connected at its lower edge to the lower part of the inner face of said frame, a second window hingedly connected at its upper edge to the upper part of the exterior face of said frame, slotted brackets attached to the sides of the windows, a centrally pivoted offset lever having laterally extending pins in the extremities thereof, the pins being in sliding engagement with the slotted brackets and the windows being similarly constructed and placed but oppositely hinged, whereby the tendency of one window to swing open is balanced by the tendency of the other window to swing closed.

1,924,285
MINING MACHINE
Frank A. Lindgren, Western Springs, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois
Application March 27, 1930. Serial No. 439,305
4 Claims. (Cl. 262—23)



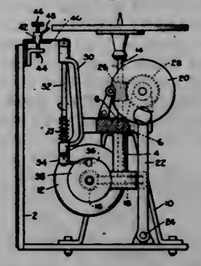
1. In a mining machine, a track-mounted base frame, a cutting element thereon including a reciprocably movable vertically disposed chain-carrying cutter bar, a motor on said base frame on one side of said cutter bar for driving the cutter chain, for reciprocating the cutter bar, and for driving the truck wheels to propel the apparatus, a jack supported on the base frame including a jack foot engageable with the mine bottom, and a separate motor mounted on the base frame on the opposite side of said cutter bar from said first-mentioned motor and having driving engagement with said jack.

1,924,286
ANTISKID CHAIN
Albert W. Mendel, Pittsburgh, Pa.
Application March 24, 1932. Serial No. 600,991
2 Claims. (Cl. 152—14)

1. An anti-skid chain comprising an inner side chain, a pair of outer side chains having their inner ends spaced apart, cross chains connecting the inner and outer side chains together, a pair of outwardly convergent cross chains having one end thereof secured to the inner side chain and the opposite end free and extending beyond the outer side chains, the inner ends of the outer side chains being secured to said convergent chains intermediate the ends of said convergent chains, means carried by the free end of one convergent chain to secure the ends of the convergent chains together, and a spring carried by one of the outer side chains and having a loop integral with one end engaging a link of said one outer side chain and having a hook integral with the other end for detachably engaging the other outer side chain whereby to maintain the chain in taut condition on a tire.

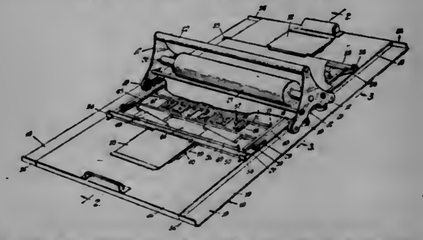
1,924,287
PHONOGRAPH
Thomas E. Piazze, Brooklyn, N. Y., assignor to Technidyne Corporation, New York, N. Y., a Corporation of New York
Application February 19, 1929. Serial No. 341,079
9 Claims. (Cl. 274—10)

4. An automatic phonograph comprising a stationary chassis, a tiltable motor frame, a record turntable carried thereby, tilting mechanism mounted on the motor frame, a single driving motor for both the table and the tilting mechanism carried by the frame, a speed governor and brake mounted on the frame for controlling the playing speed of the phonograph, a manually adjustable speed regulator in the form of an adjustable fixed member mounted on the chassis, and movable means on the governor mechanism



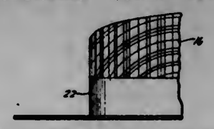
carried by the frame the position of which is determined by bearing against the said member when the frame is in playing position but which is separated from the said member when the frame is tilted in order to release the governor brake during the tilting operation.

1,924,288
PRINTING PRESS
Harvey J. Reardon, Chicago, Ill.
Application May 4, 1933. Serial No. 669,392
22 Claims. (Cl. 101—269)



1. In a printing press, the combination of: a bed; work-locating means on the bed including a work-locating bar slidably mounted on and guided over the bed; and paper-locating means on the bed including a paper-clamping member pivotally mounted on and slidable with the said work-locating bar over the said bed.

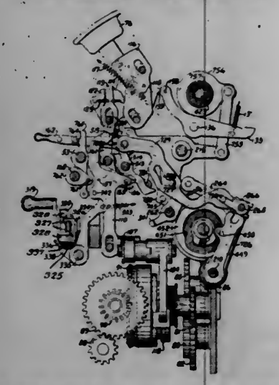
1,924,289
HAT AND HAT-MAKING ART
Ralph K. Reynolds, Danbury, Conn., assignor to The Mallory Hat Company, Danbury, Conn., a Corporation of Connecticut
Application May 9, 1929. Serial No. 361,573
8 Claims. (Cl. 2—194)



1. The hat-making art, which consists in blocking a hat, subjecting the outer surface of the felt to coarse abrasive action to draw out long fibers or nap, buffing said felt to polish said nap, softening the hat with steam, wetting the hat, ironing the hat dry, wetting the hat again, pressing the outer surface of the hat against a member of predetermined form to emboss in its outer surface a predetermined design, and subjecting the outer surface of the felt to

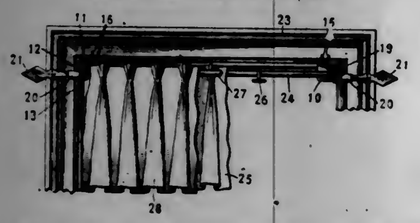
fine abrasive action to remove the nap at all portions other than those depressed by said embossing action.

1,924,290
CASH REGISTER
William H. Robertson, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland
Application March 4, 1927. Serial No. 172,660
22 Claims. (Cl. 235—2)



1. In a machine of the class described, the combination of a plurality of totalizers, a corresponding number of record receptacles, a printing mechanism associated with each receptacle, and a manipulative device adapted to simultaneously select one of said totalizers, its corresponding record receptacle, and the printing mechanism associated with the selected record receptacle.

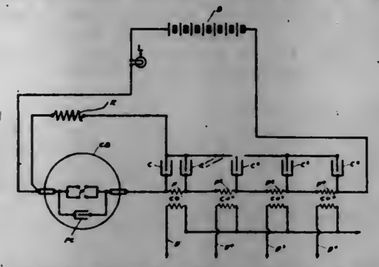
1,924,291
BRACKET FOR CURTAIN RODS
David H. Rosenberg, New York, N. Y.
Application May 16, 1933. Serial No. 671,369
9 Claims. (Cl. 156—22)



1. A bracket for mounting a curtain rod comprising a body portion, a roof portion having an opening for the reception of fastening means and means carried by the roof portion for detachably mounting a curtain rod.

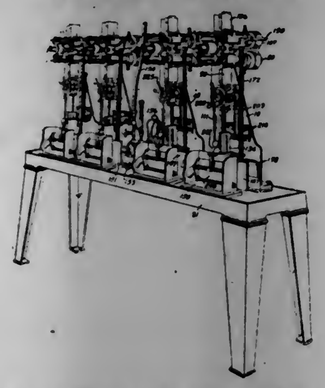
1,924,292
IGNITION SYSTEM
Louis B. Sauer, Western Springs, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois
Application May 31, 1930. Serial No. 458,820
3 Claims. (Cl. 123—148)

1. In an ignition system, a cylinder, a plurality of spark plugs in said cylinder, a spark coil for each of said plugs, a circuit breaker, a condenser bridged across the points of said circuit breaker, a length of wire having a resistance ranging from .018 ohms to .043 ohms also bridged across the



points of said circuit breaker, and condensers in said wire.

1,924,293
ENGRAVING MACHINE
Howard B. Scott and Edgar Warner, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio
Application October 8, 1928. Serial No. 311,092
56 Claims. (Cl. 90—13.8)

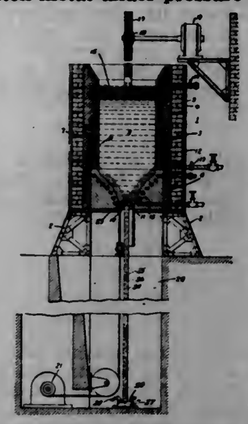


1. In a machine of the class described; the combination with a swinging supporting means; a cutter slide carried by said supporting means to shift relatively thereto; and a cutter mounted on the cutter slide; of a master character plate; a pivoted work carriage; a tracer shiftably mounted on the supporting means and adapted to move the work carriage toward and away from the cutter; and means to swing the supporting means with the cutter and tracer to shift the tracer laterally across the master plate and the cutter across the work.

1,924,294
APPARATUS AND METHOD OF EXTRUDING PIPE
William B. Shirk and Porter H. Brace, Forest Hills, and Newbold C. Goin, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania
Application June 12, 1930. Serial No. 460,554
4 Claims. (Cl. 207—2)

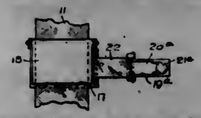
1. Apparatus for forming an extruded metal article comprising, in combination, a reservoir for molten metal terminating in an elongate and generally conical forming throat, said throat being provided with cooling means extending along its forming surface to solidify the metal gradually as

it progresses through the throat, and means to force molten metal under pressure from the res-



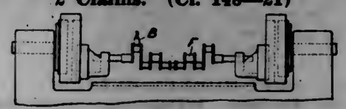
ervoir through the cooled forming throat and to extrude plastic, solidified metal.

1,924,295
BUCKLE
Sidney Stiffson, New York, N. Y.
Application April 22, 1932. Serial No. 606,844
6 Claims. (Cl. 241—12)



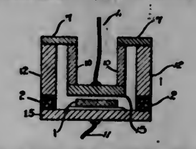
1. An appliance for use in conjunction with a shirt and trousers for retaining them in proper association with the body and with each other when simultaneously worn, which comprises: suspenders for supporting the trousers, the suspenders including a pair of bands extending frontally over the shirt, each band including devices for making it effective to apply to the trousers a predetermined supporting force, the devices comprising means for adjusting the effective length of the band and means for effecting engagement of the band with the trousers, and an elastic member associated with one of the devices of each band, the member of each band having means for engaging adjacent shirt material, the associated members of the opposed bands cooperating to apply to the shirt front distending forces in opposite directions for retaining the shirt front in a uniformly smoothened form.

1,924,296
HEAT TREATMENT OF CRANK SHAFTS
Otto Stoffel, Carl Roesch, and Carl Sudhaus, Remscheid, Germany, assignors to The Linde Air Products Company, a corporation of Ohio
Application August 20, 1930, Serial No. 476,654, and in Germany February 11, 1929
2 Claims. (Cl. 148—21)



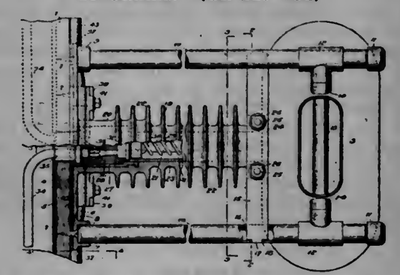
1. Process of producing a relatively deep wear-resistant outer layer of uniform high hardness on a cylindrical bearing surface of a steel shaft while preserving the initial chemical composition and the initial core hardness thereof, which comprises maintaining a ribbon-type flame of a width equivalent to the length of the surface to be treated and so positioned with respect to said surface as to apply uniform heat thereto along a line parallel with the axis thereof, causing a relative movement between said flame and said surface of uniform angular velocity, and applying a quenching liquid to said surface immediately following its contact with said flame.

1,924,297
CRYSTAL OSCILLATOR AND RESONATOR
Edgar D. Tillyer, Southbridge, Mass., assignor to Radio Corporation of America, New York, N. Y., a Corporation of Delaware
Application August 4, 1930. Serial No. 473,083
5 Claims. (Cl. 171—327)



1. In a device of the character described, a piezo-electric crystal mounted between two spaced electrodes and a spacing member for holding the electrodes in spaced relation to each other comprising an insulating member supporting spacer bars having physically separated arms of different material to neutralize the expansion and contraction of temperature changes to hold the constancy of the vibration frequency of the crystal one of said arms being comprised wholly of a metal having a high expansion characteristic and the other of said arms being comprised wholly of a metal having a low extension characteristic.

1,924,298
ELECTRIC CAR HEATER
George F. Wennagel and Carroll Thomas, Baltimore, Md.
Application June 17, 1927. Serial No. 199,574
15 Claims. (Cl. 219—34)

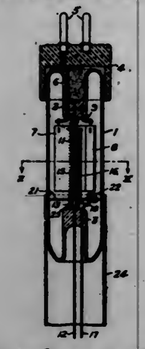


2. In a car heater, a bracket mounted at the side of the car beneath a seat, a frame carried by the bracket and connected with the seat pedestal, a heat radiating member mounted within the frame, and a heating unit within the radiating member, the frame including foot rests located at opposite sides of the radiating member.

1,924,299
PHOTO-ELECTRIC TUBE
Earl D. Wilson, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application February 20, 1929. Serial No. 341,344
8 Claims. (Cl. 250—27.5)

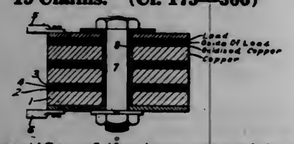
1. A photo-electric tube consisting of a cathode comprising a main substantially flat portion

and other electrodes located in front of and at a distance from said portion, whereby, when light is received at a sufficiently oblique angle to said flat portion, the shadow of said other electrodes will not fall thereon, said cathode also compris-



ing a portion at such an angle to said first-named portion that most of the light received at said oblique angle and reflected by said first-named portion will be intercepted by said second-named portion.

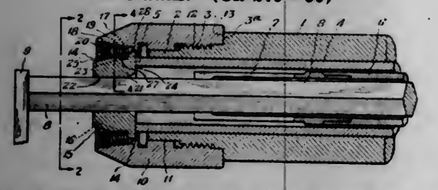
1,924,300
COPPER OXIDE RECTIFIER
Alfred L. Atherton, Verona, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application December 31, 1927
Serial No. 243,904
15 Claims. (Cl. 175—366)



2. In a rectifier of the type comprising a metal and a compound thereof with another substance formed thereon, a contact element cooperating with said compound and comprising a common metal chemically inert to said compound at all temperatures at which the rectifier operates.

13. In combination with a metal and an oxide of said metal thereon and subject to heat, a contact element cooperating with said oxide and having a surface layer of a composition of common metal, said composition having less chemical affinity for said oxide than said metal has.

1,924,301
CHUCK FOR HOLDING BAR STOCK AND THE LIKE
Elney H. Benford, Cleveland, Ohio
Application December 10, 1930
Serial No. 501,252
14 Claims. (Cl. 279—60)



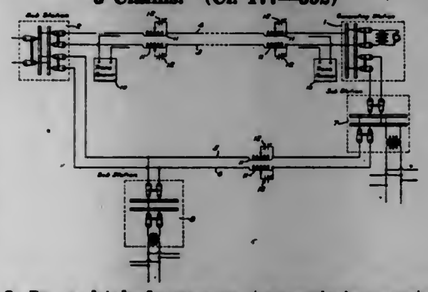
1. A chuck comprising a body formed with a longitudinal axial opening, said opening being formed with a plurality of flat surfaces inclined with relation to the axis of said opening, clamping jaws formed with flat seats slidably mounted on said inclined surfaces, and resilient means adapted to move said jaws outwardly from the axis of said opening, a portion of said resilient means lying within and projecting above said inclined surfaces.

1,924,302
ROTATABLE CONNECTER
Ercole R. Berluti, Saginaw, Mich.
Application June 9, 1930. Serial No. 459,969
1 Claim. (Cl. 173—324)



In a vehicle signalling system, and in combination with a steering column and a steering wheel having its hub formed of non-conducting material, a sectional disk of non-conducting material, having a groove in its periphery, a casing connected with the column and having an internal rib thereon engaging the groove, said disk having an opening therein, the walls of which engage the upper end of the column with the upper face of the disk contacting the lower face of the hub, contact strips in the upper face of the disk and brushes carried by the hub of the steering wheel for engaging said contact strips.

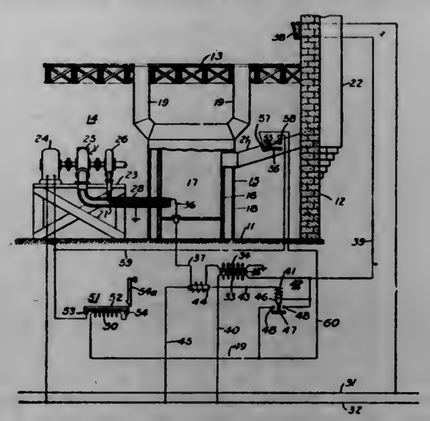
1,924,303
PHASE SHIFTING REACTOR
Clarence A. Boddie, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application December 7, 1928. Serial No. 324,568
3 Claims. (Cl. 177—352)



2. In a high-frequency transmission system comprising a power-line network, a transmitter of electrical energy, a receiver of electrical energy, a plurality of wave-conveying channels constituted by a portion of said power line network inter-connecting said transmitter and receiver, and tuned means capable of carrying the power current interposed in at least one of said channels, whereby potentials appearing at said receiver from said transmitter may be maintained in additive phase-relation.

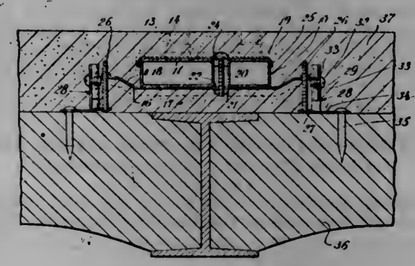
1,924,304
FUEL BURNER SYSTEM
John V. Breisky, Pittsburgh, and Thomas Draper, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania
Application June 29, 1928. Serial No. 289,201
5 Claims. (Cl. 158—28)

1. In a fuel burner of the type including fuel supply means and fuel ignition means that is of the type capable of producing high frequency currents, means, responsive only to the high fre-



quency currents produced by said ignition means, for controlling said fuel supply means.

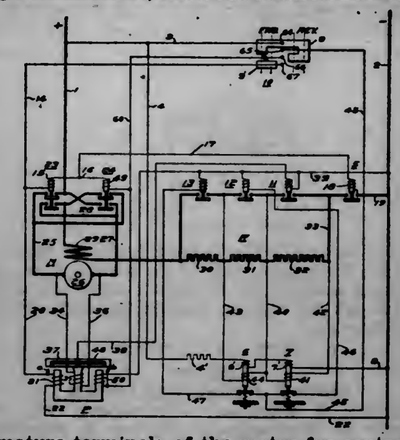
1,924,305
DUCT SUPPORT
Glenn E. Blinn, New York, N. Y., assignor to Hervey S. Walker, Ardmore, Pa.
Application June 5, 1931. Serial No. 542,276
17 Claims. (Cl. 247—3)



1. In a duct support, the combination of a base member for supporting duct, anchor posts at the ends of the member, and means independent of the posts for adjusting the member lengthwise of the posts.

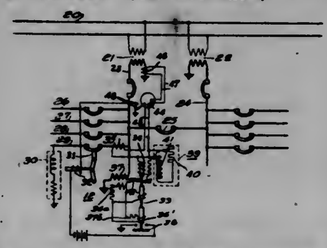
1,924,306
CONTROL APPARATUS
Willard G. Cook, Forest Hills, and Henry D. James, Edgewood, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania
Application May 20, 1930. Serial No. 453,884
7 Claims. (Cl. 172—179)

1. In a control system for a reversing motor, including a source of power, a motor, directional contactors and a manually operable controller for controlling the contactors, in combination, a plugging resistor, shunting means for the plugging resistor, a relay for controlling the shunting means including a coil for operating the relay upon movement of the manual controller in one direction, a coil for operating the relay upon movement of the manual controller in the opposite direction, and a coil connected across the



armature terminals of the motor for controlling the operation of the relay by said coils.

1,924,307
RELAY SYSTEM
Leslie N. Crichton, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania
Application January 23, 1930. Serial No. 422,965
15 Claims. (Cl. 175—294)

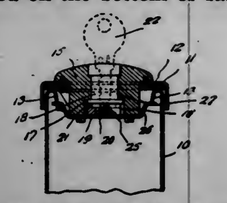


1. The combination with a distribution circuit, and a circuit breaker therein for isolating said circuit, of an instantaneous relay having actuating and restraining windings, means for energizing said actuating windings substantially exactly in proportion to the current traversing said circuit, means for energizing said restraining windings substantially exactly in proportion to the voltage of said circuit, and a shunt connected in parallel with said actuating winding, comprising inductive reactance and resistance in series.

1,924,308
CLOSURE CAP
Frederick C. Cruze, Knoxville, Tenn.
Application November 24, 1931
Serial No. 577,066
3 Claims. (Cl. 70—90)

1. The combination with a filling tube having spaced internal cam-like flanges provided with depending end stop extensions, of a closure cap having a central opening, a lock having a casing fitted in said central opening of the closure cap, said lock casing having an end flange resting on and secured to the top of said closure cap by means concealed within the latter, said lock including key-actuated bolts arranged to

be projected across the lower edges of said cam-like flanges into the path of said stop extensions for locking said closure cap on said filling tube, a plate secured on the bottom of said lock casing



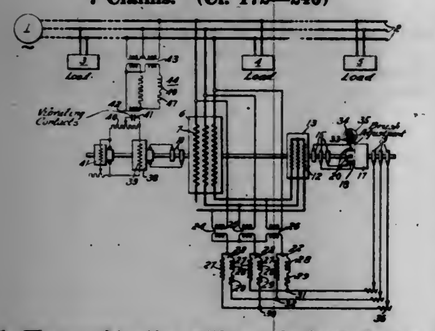
for holding said bolts therein, and lugs projecting from the edge of said plate intermediate said bolts and adapted to cooperate with said cam-like flanges for tightly seating the cap on said filling tube.

1,924,309

SHUNT PHASE-BALANCER

Alexander D. Dovjikov, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania

Application December 15, 1931
Serial No. 581,093
7 Claims. (Cl. 172—246)



1. The combination with a polyphase dynamo-electric machine adapted to operate as a shunt phase balancer for short-circuiting negative-sequence voltages on an unbalanced polyphase line, of a polyphase negative-sequence booster having polyphase armature windings connected in series with the polyphase primary windings of said balancer machine, said booster having polyphase field windings, and means for exciting said booster field windings in accordance with the negative-sequence voltage-drop in the primary windings of said balancer machine.

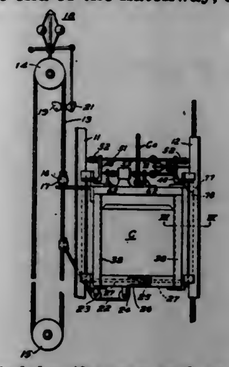
1,924,310

ELEVATOR SAFETY BRAKE

James Dunlop, Park Ridge, Ill., assignor to Westinghouse Electric Elevator Company, a Corporation of Illinois

Application January 22, 1931. Serial No. 510,445
6 Claims. (Cl. 187—90)

1. In combination, an elevator car operable between guide rails, movable brake shoes carried by the car, biasing means for urging the brake shoes into engaging relation with the rails, electromagnetic means effective when energized for opposing said biasing means to prevent the application of the brake, a circuit for energizing said electromagnetic means when the car is operating, co-operating contact members connected into said energizing circuit, a speed responsive device for moving a first one of said contact members away from the second contact member when the car overspeeds, a stationary cam member mounted adjacent the end of the hatchway, cam engaging



means carried by the car and associated with said second contact members to move it away from the first contact and apply the brake if the car speed is not sufficiently reduced as it approaches its limit of travel.

1,924,311

INSULATING MATERIAL

Albert A. Frey, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania

No Drawing. Application January 6, 1931
Serial No. 506,967
10 Claims. (Cl. 175—21)

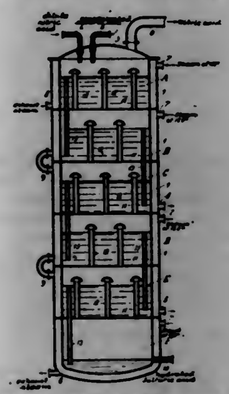
1. As an article of manufacture, magnetic sheet material coated with an insulating film containing particles of a refractory material in predominant amount cemented together and to the sheet material by a suitable binding agent.

1,924,312

METHOD OF CONCENTRATING NITRIC ACID

Hermann Frischer, Cologne-Lindenthal, Germany

Original application November 30, 1927, Serial No. 236,705, and in Germany December 6, 1926. Divided and this application July 30, 1929. Serial No. 382,110
2 Claims. (Cl. 23—160)



1. In the concentration of nitric acid, the process which comprises passing a liquid mixture of nitric acid and sulfuric acid through a series of

CARNEGIE LIBRARY OF ATLANTA

separated zones containing bodies of said liquid mixture heated indirectly, with prevention of local superheating, to successively higher temperatures, said temperatures being sufficient to cause disengagement of nitric acid vapors but insufficient to cause decomposition of nitric acid, and passing substantially all the vapors of nitric acid thereby liberated through said zones in a direction counter to the flow of said mixture, thereby recovering substantially the entire nitric acid content of said mixture in the form of concentrated nitric acid.

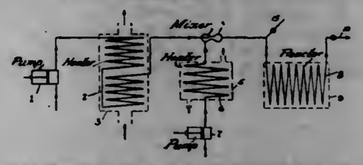
2. The process of claim 1 wherein the first zone into which nitric acid is introduced is maintained at a temperature in the neighborhood of slightly above 100° C. and the last zone is maintained at a temperature of about 160° C.

1,924,313

METHOD FOR MAKING PHENATES

John J. Grebe and Willard H. Dow, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan

Application June 29, 1928. Serial No. 289,200
9 Claims. (Cl. 260—154)



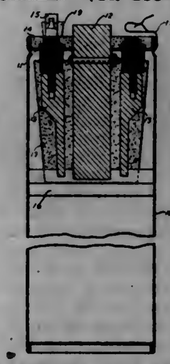
1. In a method for making a phenate, the steps which consist in preparing a mixture of a mono halogenated benzene and a water solution of a caustic alkali under pressure in excess of the vapor pressure to be later developed, but at a temperature below the temperature of reaction and then heating said mixture to the reaction temperature by injecting thereinto steam of a higher pressure superheated to a temperature in excess of the reaction temperature desired.

1,924,314

ELECTRIC BATTERY

George W. Heise, Lakewood, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York

Application March 13, 1930. Serial No. 435,580
8 Claims. (Cl. 136—86)



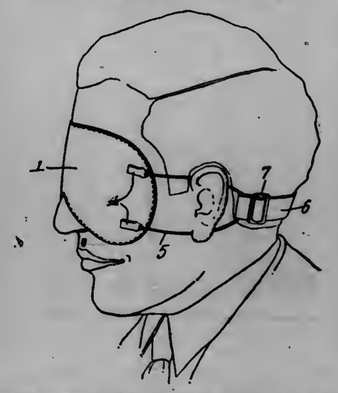
1. An electric battery of the type employing voltaic elements and liquid electrolyte formed by the solution of a solid ingredient, said solid ingredient being cast in a block around said elements.

1,924,315

SLEEP EYE SHADE

Edward C. Hemphill and Elsie M. Hemphill, San Francisco, Calif.

Application August 27, 1930. Serial No. 478,196
1 Claim. (Cl. 2—15)



A sleep eye shade including an opaque body portion shaped to fit snugly against the forehead and cheeks of the wearer and extend over the nose, soft light-excluding pads along the bottom edges of said body portion for holding said portion out of contact with the eyelids and lashes of the wearer and for closing the spaces between the nose and the bottom edges of the said body portion, said pads being relatively broad at their centers and tapered at their ends, elastic means attached to the top and bottom portions of the shade for extending over and under each ear, and a connection between said means to prevent them from pulling on the backs of the ears and for holding firmly against the face of the wearer the pads and all portions of the edge of the body extending beyond the pads, thereby to exclude light rays from entering under the pad throughout the length of the margin thereof while the pad is in use.

1,924,316

METHOD OF MAKING DIAPHRAGMS

Jurjen S. High, Oaklyn Manor, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania

No Drawing. Application July 30, 1930
Serial No. 471,751
2 Claims. (Cl. 154—2)

1. The method of making a dished article which comprises preparing a blank of substantially flat material, creping said blank in at least two directions to acquire the property of flowing substantially equally in all directions under the application of pressure and subsequently distorting said blank into its desired form.

1,924,317

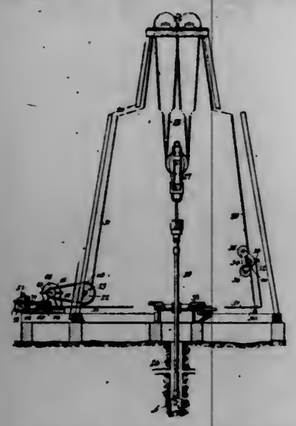
MECHANISM FOR CONTROLLING PRESSURE AND FEED OF TOOLS OF ROTARY WELL DRILLING RIGS

Harlan W. How, Warren, Pa., and Leon H. Johnson, Lakewood, N. Y., assignors to Struthers Wells-Titusville Corporation, Warren, Pa., a Corporation of Maryland

Application October 9, 1929. Serial No. 398,495
19 Claims. (Cl. 255—19)

18. In combination with a hoist drum including a shaft and a cable wound on said drum, said cable supporting the drilling string, an automatic

drilling regulator comprising weight indicator means operatively attached to said cable, a motor, gear reduction means, drive means from the motor to the hoist drum, speed control means on



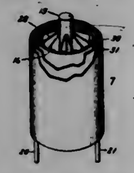
the motor, and means extending from said weight indicator to the speed control means whereby said speed control means is actuated by the weight indicator.

1,924,318

THERMIONIC DEVICE

Albert W. Hull and William A. Ruggles, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York

Application April 10, 1928. Serial No. 268,976
13 Claims. (Cl. 250—27.5)



9. A thermionic cathode comprising a metal enclosure having an opening in communication with the exterior of said enclosure, a plurality of wall members in said enclosure, the internal surface of said enclosure including the surfaces of the wall members being large relative to the external surface of the enclosure, a metal member surrounding said enclosure, said member being poor heat-conducting relation to the interior portions of the cathode and having a polished surface, a material of high electron emissivity coating the interior walls of said enclosure, and means for heating said walls to an electron-emitting temperature.

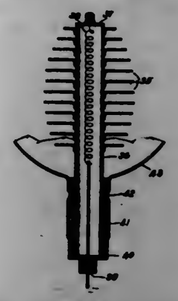
1,924,319

CATHODE STRUCTURE FOR THERMIONIC DEVICES

Albert W. Hull, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York

Application October 9, 1930. Serial No. 487,533
5 Claims. (Cl. 250—27.5)

5. A cathode for an electrical discharge device comprising a heater member enclosed within a cylindrical metal casing, a plurality of circular electron-emitting discs secured directly to the casing, said discs extending normal to the surface



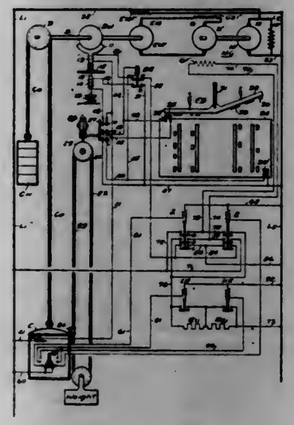
of the casing and having diameters at least several times the diametral size of the casing.

1,924,320

ELEVATOR SAFETY BRAKING SYSTEM

Henry D. James, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania

Application March 20, 1930. Serial No. 437,400
3 Claims. (Cl. 187—29)



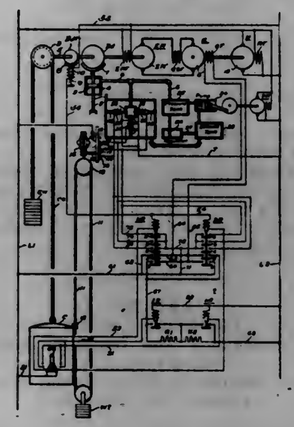
1. The combination with an elevator system comprising an elevator car, a control system therefor, and a braking device comprising a brake drum, a brake shoe, a spring normally urging said brake shoe into engagement with the brake drum to apply a braking effort thereto, and electromagnetic releasing means associated therewith to hold the shoe disengaged from the drum when energized, of an auxiliary actuating member mounted adjacent to said brake shoe for movement into engagement therewith, an auxiliary spring for urging said actuating member into engagement with said brake shoe, auxiliary electromagnetic releasing means associated with said actuating member for holding it away from the brake shoe in opposition to said auxiliary spring, means associated with the control system to deenergize said first electromagnetic releasing means when the control system is effected to stop the car, and additional means to deenergize both electromagnetic releasing means to apply the brake with emergency force when the car approaches a terminal at undiminished speed.

1,924,321

BRAKING SYSTEM

Henry D. James, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania

Application April 18, 1930. Serial No. 445,318
8 Claims. (Cl. 187—29)



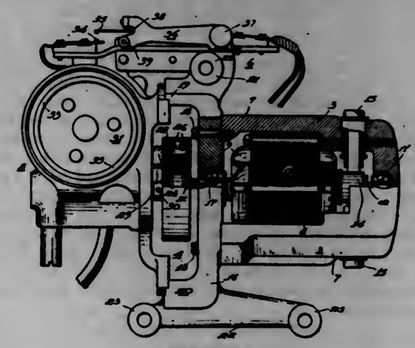
1. The combination with an elevator system comprising an elevator car and a control system therefor, of a brake, an auxiliary brake, means for applying said brakes simultaneously when slow-down is initiated, and means for gradually releasing said auxiliary brake as the speed of the elevator car decreases.

1,924,322

GEAR-REDUCTION CONSTANT-SPEED UNIT WITH UNIVERSAL MOTORS

Ernest H. Knight, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania

Application February 7, 1931. Serial No. 514,184
6 Claims. (Cl. 172—36)



1. In combination, a variable-speed electric motor characterized by a frame having an extension at one end; a constant-speed centrifugal clutch secured to the motor shaft and disposed within said extension; and a reduction-gear unit driven at a constant speed by said clutch and characterized by a frame which is detachably secured to said extension of the motor frame.

1,924,323

PROCESS FOR THE TREATMENT OF RAW MATERIALS CONTAINING SILICIC ACID OR SILICATES AND OXIDES OF HEAVY OR LIGHT METALS

Ernst Justus Kohlmeyer and Xaver Siebers, Berlin-Charlottenburg, Germany

No Drawing. Application December 16, 1930, Serial No. 502,856, and in Germany April 9, 1930
2 Claims. (Cl. 23—142)

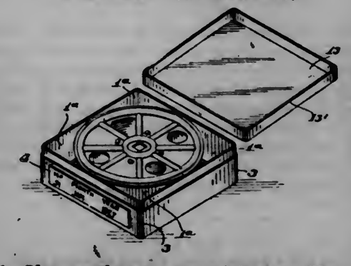
1. A process for the treatment of materials containing at least one of the materials silicic acid and silicates; and oxides of metals; comprising rapidly heating the materials in mixture with zinc sulphide and carboniferous substances to a sintering temperature of about 1350°–1450° C., removing the silicic acid as silicon-subsulphide, and recovering the metal-oxides from the residue.

1,924,324

FILM PACKAGE

Mathias R. Kondolf, Lower Merion Township, Montgomery County, Pa.

Application September 19, 1929
Serial No. 393,610
2 Claims. (Cl. 206—52)



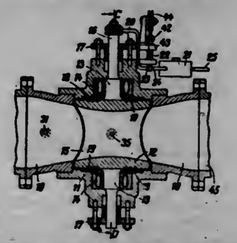
1. A film package comprising a film roll, a housing for said roll having walls tangential to the periphery of said roll, said walls forming corners spaced from the periphery of said roll and a flat sheet in said housing parallel with a wall thereof and spaced from a wall thereof and spacing said roll from said housing wall to permit circulation between said film roll and housing.

1,924,325

FLUID CONTROLLING DEVICE

Bernhard Krämer, Halle on the Salle, Germany, assignor to the firm Elektrowerke Aktiengesellschaft, Berlin, Germany

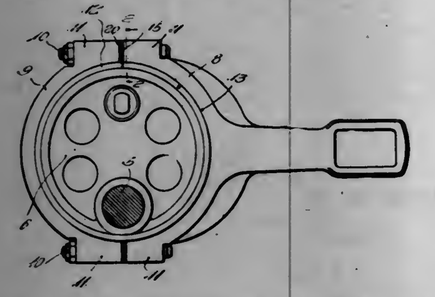
Application November 28, 1928, Serial No. 322,536, and in Germany November 28, 1927
2 Claims. (Cl. 251—113)



1. A fluid controlling device comprising, in combination, a casing, an undivided cock plug, coaxial pivots on said undivided cock plug, roller bearings in said casing for supporting said pivots, a permanent clearance between said casing and

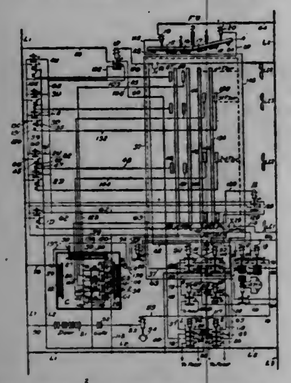
said undivided cock plug in all positions of the latter, and a full Venturi passage in the body of said undivided cock plug.

1,924,326
BEARING FOR ECCENTRICS
George J. MacFadden, Quincy, Ill., assignor to Gardner-Denver Company, Denver, Colo., a corporation of Delaware
Application May 21, 1930. Serial No. 454,405
7 Claims. (Cl. 308—237)



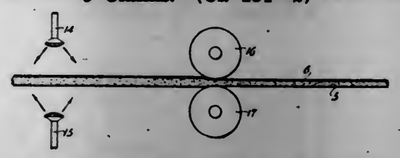
1. The combination with a rotatable eccentric member and a connecting rod member having a sectional ring surrounding the eccentric rod member, a liner ring interposed between the eccentric member and the rod member ring and having a recess, a holding key clamped between the sections of the rod member ring and engaged in the recess, and an alining device for the sections maintaining the key in operative position.

1,924,327
ELEVATOR CONTROL SYSTEM
Harold W. Mattingly, Swissvale, and William F. Eames, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a corporation of Pennsylvania
Application September 19, 1928
Serial No. 306,805
11 Claims. (Cl. 187—29)



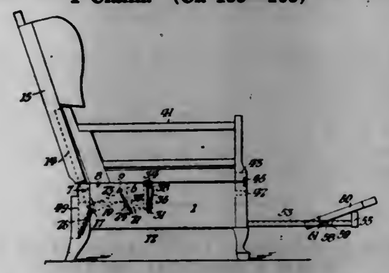
1. In an elevator control system, a car operable in a hatchway past a plurality of floors, passenger-operated means disposed at each floor for registering calls for stopping the car at the corresponding floor, and means responsive to the load displacement on the car for causing the car to by-pass the calls registered on the passenger-operated means at the floors.

1,924,328
BLANKET FOR PRINTING PRESSES AND METHOD OF MAKING THE SAME
Thomas L. McElroy, Brooklyn, N. Y.
Application December 2, 1930. Serial No. 499,603
6 Claims. (Cl. 154—2)



1. A fabric blanket for printing presses impregnated with lycopodium.
2. A method of manufacturing blankets for printing presses, consisting of vulcanizing rubber to a face of a fabric, steaming the fabric, spraying the fabric with a moisture resistant, and rolling the fabric.

1,924,329
FOLDING CHAIR
Aaron I. Pasternack and David G. Pasternack, Philadelphia, Pa.
Application March 25, 1930. Serial No. 438,668
1 Claim. (Cl. 155—163)

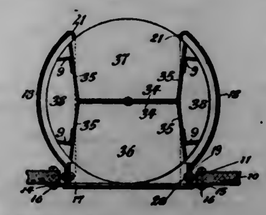


In a folding chair, the combination with a seat frame having a slot thru one side thereof; of a back frame; of means hingedly connecting said frames in angularly adjustable relation, including opposite side bars on said back frame pivotally connected with said seat frame; a rack pivotally connected with said side bars; means in said seat frame adapted to be detachably engaged by said rack frame in various positions; and means movable to release said rack frame to permit adjustment of said frames, including a single lever pivoted at one side of said seat frame within the latter with its opposite end extending thru said seat frame slot to the exterior thereof, where it is accessible to the occupant of the chair, and an arm on said lever overhanging said rack frame; and a spring normally upholding the free end of said lever with said arm above said rack frame; whereby depression of the exterior end of said lever uniformly depresses said rack frame to release it, and release of said lever permits said rack frame to engage said chair frames in adjusted position.

1,924,330
PROTECTIVE CLOSURE
Charles A. Scheeler, Buffalo, N. Y., assignor to Buffalo Wire Works Co., Inc., Buffalo, N. Y., a corporation of New York
Application October 14, 1931. Serial No. 568,764
4 Claims. (Cl. 20—1.01)

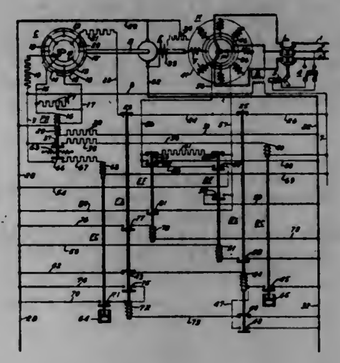
1. A protective closure for an opening in a building wall comprising a housing arranged opposite said opening and having a passage, and a

turret pivoted to turn about a vertical axis and having an upper head, a lower head, two side walls arranged between said heads, and a partition between said walls and forming with the side walls and heads two outwardly opening chambers on diametrically opposite sides of the turret which



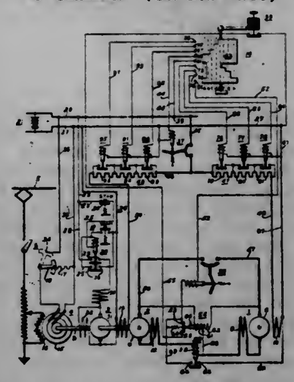
may be selectively exposed on either side of said turret said partition consisting of two plates arranged side by side and each of said side walls consisting of plates extending laterally in opposite directions from the corresponding ends of two partition plates.

1,924,331
CONTROL SYSTEM FOR DYNAMO-ELECTRIC MACHINES
Jesse P. Skillen, Hamilton, Ontario, Canada, assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application November 11, 1931
Serial No. 574,238
11 Claims. (Cl. 171—118)



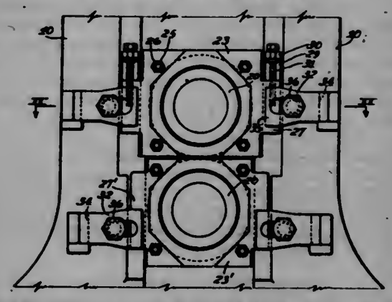
1. In a control system, a source of alternating-current, an alternating-current motor having primary and secondary windings, means for connecting said primary winding to said source to accelerate said motor, an exciter for the secondary winding, means for connecting the exciter to the secondary winding, a slip-ring and commutator device disposed to operate directly proportional of the speed of said motor, and a relay having a pair of windings, one of said windings being connected to said exciter whereby the relay is polarized and the other of said windings being energized proportional to the slip of said motor through said slip-ring and commutator device, said relay controlling the means for connecting the exciter to the secondary winding when the motor has reached substantially synchronous speed.

1,924,332
CONTROL SYSTEM FOR MOTOR-GENERATOR LOCOMOTIVES
Dana R. Staples, Wilkinsburg, and Elden I. Staples, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a corporation of Pennsylvania
Application January 18, 1929. Serial No. 333,380
6 Claims. (Cl. 172—239)



1. In a control system, in combination, a traction motor for propelling a vehicle, a generator for supplying power to said motor, a single controller for successively varying the voltage of the generator and the motor to approximately equal values while the vehicle is in motion, means for automatically connecting the motor to the generator when said voltages are approximately equal, means for automatically disconnecting the motor from the generator when the current flowing through them is at a low value, and manually operable means for controlling the operation of said disconnecting means.

1,924,333
ROLL MOUNTING
Howard H. Talbot, Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 6, 1932. Serial No. 584,971
4 Claims. (Cl. 80—56)



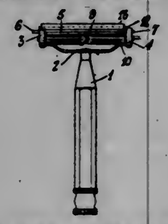
3. A roll mounting comprising a housing, a chock movably mounted in said housing, a roll having the neck thereof disposed in said chock, a bearing interposed between said chock and said roll-neck, and a cover plate fixedly associated with said roll neck and engaging a portion of said bearing, said cover plate having a projection disposed opposite a portion of said housing, a wedge disposed between said projection and said housing, and means for pressing said projection against said wedge.

1,924,334
ELECTRICAL AND MECHANICAL CONNECTION
Arthur Tauber, Yonkers, N. Y.
Application May 29, 1931. Serial No. 541,066
7 Claims. (Cl. 173—259)



1. In a battery terminal connector, a sleeve having its upper portion provided with screw threads and its lower outer portion gradually enlarged, said sleeve also being provided with a cut extending upwardly from its lower edge and a cut extending downwardly from its upper edge out of alignment with the first mentioned cut, a ring encircling said sleeve, means for connecting an electrical conductor to said ring, a cap provided internally with screw threads adapted to engage with the threads of said sleeve and provided with a cut extending upwardly from its lower edge, the lower outer portion of said cap being bevelled and adapted to engage within the ring, whereby, as said cap is screwed downwardly on said sleeve, both end portions of the sleeve are compressed against a battery terminal.

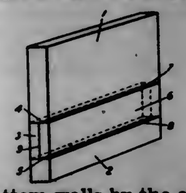
1,924,335
SAFETY RAZOR
George Taylor, Penwortham, Preston, England
Application June 11, 1932, Serial No. 616,715, and in Great Britain September 22, 1931
10 Claims. (Cl. 30—12)



1. In a safety razor including a razor frame, a reciprocating blade carrier moving between end plates on the razor frame, the combination with a backing plate including a stem adapted to pass through the carrier for securing the blade thereto, of shoulders on the said stem and a spring pressed locking plate slidably mounted on and under the said carrier to move parallel therewith, for engaging the said shoulders, and an extension on the said locking plate, projecting through and beyond one of the said end plates to permit of the locking plate being released from the said shoulders irrespective of where the carrier stops during its reciprocation.

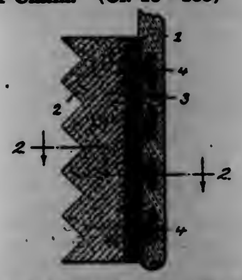
1,924,336
BIFOCAL LENS
Harry Aubrey Toulmin, Jr., Dayton, Ohio, assignor to The Univis Corporation, Dayton, Ohio, a corporation of Delaware
Original application July 6, 1931, Serial No. 548,757. Divided and this application March 21, 1932. Serial No. 600,232
9 Claims. (Cl. 49—82.1)

1. In a method of producing bifocal lenses, forming a major blank by assembling a plurality of rectangular crown glass strips, arranging a flint glass strip so that it is engaged on at least



its top and bottom walls by the crown glass, and fusing said strips together by a single fusion.

1,924,337
DENTAL MASSAGING APPLIANCE
Albert B. Troupa, Princeton, Ill.
Application August 31, 1932. Serial No. 631,217
1 Claim. (Cl. 15—188)



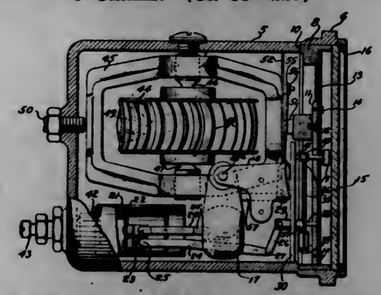
A dental brushing and massaging implement of the type herein described, comprising a brushing and massaging member of an approximately rectangular block shape, formed of porous india rubber and having its attaching side stiffened into an integral semi-rigid layer which in turn is formed with depending headed extensions, and a handle formed of moldable material and molded around said headed extensions, the heads of said extensions having a bulbous form.

1,924,338
ANTIDAZZLE DEVICE
Edgar Walmsley and Henry Alfred Francis, Blackpool, England
Application April 18, 1931, Serial No. 531,192, and in Great Britain April 25, 1930
6 Claims. (Cl. 240—41.4)



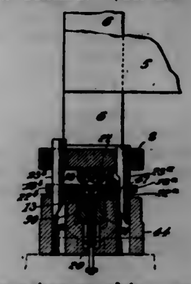
1. An anti-dazzle device for vehicle lamps comprising a light diffusing disc having an annular light diffusing portion and a central transparent portion, a translucent member of conical form secured to the disc to protect the transparent portion against direct rays of light from the lamp, the light diffusing portion of the disc comprising a layer of particles of broken glass having a large number of facets, a sheet of transparent material on one side of said layer, a further sheet of transparent material on the other side of said layer so that the layer is enclosed between said sheets, and an adhesive cementing agent for uniting said sheets.

1,924,339
INCLINOMETER
Philip Weber, Monmouth Beach, N. J., assignor to Pioneer Instrument Company, Incorporated, Brooklyn, N. Y., a Corporation of New York
Application November 3, 1930. Serial No. 493,174
6 Claims. (Cl. 33—220)



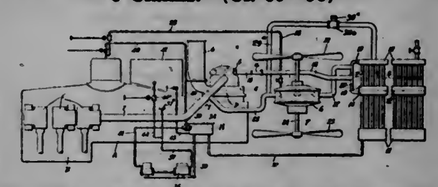
1. In combination, a case, a pendulum pivotally mounted in said case, means operatively connected to said pendulum for indicating the angular displacement of said pendulum relative to said case, a frame, a gyroscope rotatably supported in said frame so that the latter can precess about an axis perpendicular to the axis of swing of the pendulum, and means connecting said pendulum and frame for causing said pendulum and frame to move simultaneously in relation to said case but in predetermined relation to each other, said last mentioned means including a connection for affecting the pendulum to a greater extent by the precessional movement of the gyroscope in one direction and to a lesser extent by the precessional movement of said gyroscope through the same angular distance in an opposite direction.

1,924,340
FORMING APPARATUS
John N. Whitehouse, New York, N. Y.
Application September 3, 1930. Serial No. 479,503
12 Claims. (Cl. 18—14)



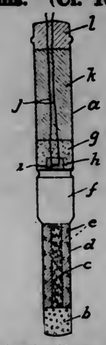
1. A tube forming machine comprising: a reciprocatory head, a mandrel attached to said head, means to manipulate sheet material in conjunction with said mandrel, and means to automatically actuate said manipulating means when the head is reciprocated.

1,924,341
CONDENSING LOCOMOTIVE
Eugene L. Schellens, Ridgewood, N. J., and Christopher A. Schellens, Marblehead, Mass., assignors to C-S Engineering Company, Englewood, N. J., a corporation of Delaware
Application September 5, 1930. Serial No. 479,832
6 Claims. (Cl. 60—96)



1. In a power plant, the combination with an engine and boiler, of an exhaust draft fan for creating draft in the boiler, a steam turbine for driving said exhaust draft fan, means for leading exhaust steam from the engine to said turbine to operate it, a radiator for condensing exhaust steam, fan means for cooling the radiator, a steam turbine for operating said fan means, means for leading exhaust steam from the draft fan turbine to the second mentioned turbine to operate it, means for leading exhaust steam from the second mentioned turbine to the radiator, a valve controlled by-pass for by-passing operating steam around the second turbine to the radiator, and means for feeding condensate from the radiator to the boiler.

1,924,342
DELAY CAP
Harvey B. Alexander, Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application November 3, 1932. Serial No. 640,957
6 Claims. (Cl. 102—10)



1. A delay cap including, in combination, a casing, an igniting charge, a fuse train, a detonating charge and means whereby pressure developed on burning of the fuse train is equalized on opposite ends of the fuse train.

1,924,343
BICYCLE BASKET
Charles Andrews, Rockford, Ill., assignor to The Washburn Company, Worcester, Mass., a corporation of Massachusetts
Application January 12, 1931. Serial No. 508,043
9 Claims. (Cl. 224—32)

1. A bottom support for a bicycle basket comprising in combination with a basket, an elongated channel-shaped member on the bottom of the basket with the flanges thereof extending downwardly, said flanges having a plurality of pairs of aligned holes provided therein at points

spaced lengthwise thereof, and a brace having means at one end thereof for fastening the same to the head of a bicycle, the other end of said brace being received between the flanges of the aforesaid member, the same having means pro-

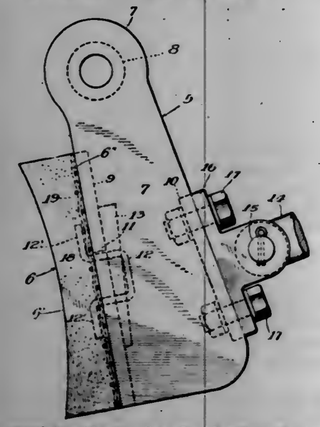


jecting outwardly therefrom on opposite sides thereof for entry in aligned holes in said flanges, said means being normally disposed entered in said holes but being retractable therefrom for selective entry detachably into any pair of aligned holes.

1,924,344
SURFACE HARDENED CAST IRON ARTICLE OF MANUFACTURE
Marie Louis André Babinet, Boulogne-Sur-Seine, France, assignor, by mesne assignments, to The Nitricastiron Corporation, a corporation of Delaware
No Drawing. Application June 13, 1931, Serial No. 544,290
4 Claims. (Cl. 148—31)

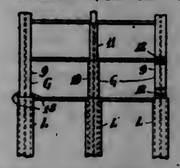
1. An article hardened in its surface portions by nitriding and consisting of a cast iron alloy having the metallographic structure characteristic of gray cast irons and containing from 2.0 to 4% of carbon, an effective and substantial proportion of aluminum but not exceeding about 1.85%, from 2.0 to 4.5% of silicon, and from 1.5 to 3.5% of chromium.

1,924,345
FRICTION BRAKE
William A. Blume, Detroit, Mich., assignor to American Brakeblok Corporation, New York, N. Y., a corporation of New York
Application May 23, 1931. Serial No. 539,531
3 Claims. (Cl. 188—53)



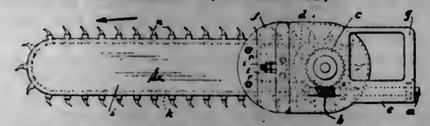
1. The combination of a brake block support for a rail car comprising a skeleton hanger having a pivot bushing at its upper end and a front plate provided with an opening, a brake block having an attaching lug arranged in said opening, and a key within the hanger engaging said attaching lug and the back of the front plate to secure the block snugly on the hanger and against the front plate.

1,924,346
COLUMN PILE AND METHOD
Maurice Blumenthal, Brooklyn, N. Y.
Application February 18, 1931. Serial No. 516,673
5 Claims. (Cl. 61—53)



1. A column pile comprising a metallic shell and a metallic column arranged within the shell, said shell and said column being adapted to constitute a single load supporting structure, said column continuing upwardly above the upper end of the shell to constitute a supporting column of a building, and a metallic seat member fixed to the column and resting downwardly against the upper end portion of the shell to retain the column against relative downward movement through the shell.

1,924,347
MACHINE FOR CUTTING COAL
Edward Breit and James Howard Ford, Leslie, W. Va., assignors to The Berwind-White Coal Mining Company, Windber, Pa., a corporation of Pennsylvania
Application February 21, 1931. Serial No. 517,421
2 Claims. (Cl. 262—28)



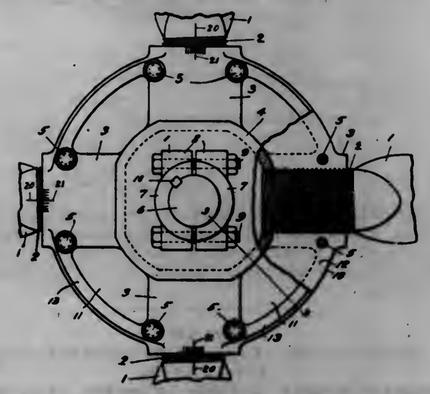
1. A machine for cutting coal comprising a frame in two sections, chain-driving mechanism carried by one section, a chain support carried by and projecting beyond the other section, a chain carried by said support and operatively engaging said driving mechanism, means securing said frame sections together and comprising means to adjust the frame sections relative one to the other in the direction of extension of the chain and its support, and two hand-holds, one on one frame section and the other on the other frame section, one of said hand-holds being at the extreme rear of the machine.

1,924,348
TONSILLECTOME
Roderick F. Brown, Altus, Okla.
Application September 7, 1932. Serial No. 632,054
9 Claims. (Cl. 128—309)



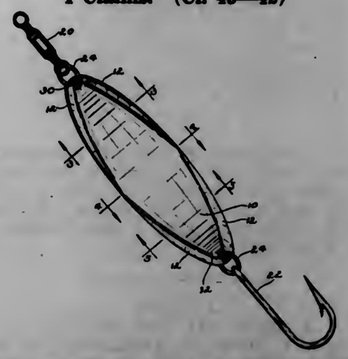
5. A tonsillectome comprising a barrel, a tonsil receiving cup connected to the barrel, means operable in the barrel for engaging a tonsil in the cup, means for severing the tonsil, and means operatively connecting the second-named means to the first-named means for actuation thereby.

1,924,349
ADJUSTABLE PITCH PROPELLER
Frederick Charavay, Piqua, Ohio, assignor of one-half to Hartsell Industries, Inc., Piqua, Ohio, a corporation of Ohio
Application March 18, 1931. Serial No. 523,427
8 Claims. (Cl. 170—173)



1. In a means of supporting a propeller blade, a one-piece hub comprising a driving shaft supporting portion and an integrally threaded split collar portion, a propeller blade having a threaded shank threaded within said split collar portion, and means for clamping said collar thereon.

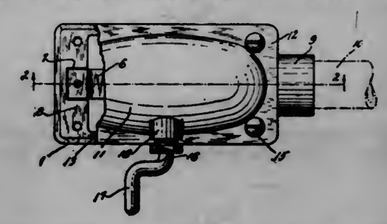
1,924,350
TROLLING LURE
John U. Cordell, Renton, Wash.
Application September 16, 1930
Serial No. 482,224
4 Claims. (Cl. 43—42)



1. A trolling lure having an elliptical marginal contour; and two spoon shaped, reversely set, ends, each of which has a sharply turned lip formed as a continuation of the spoon shaped portions; the lips on the opposite ends of the spoon being of equal extent and degree; said lips being deepest near the extreme ends of the spoon and terminating at the transverse axis of the spoon.

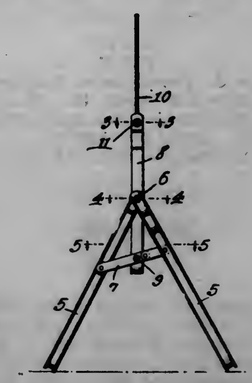
1,924,351
SWITCH OPERATING MECHANISM
Walter H. Doddridge, Lakewood, Ohio
Application February 16, 1931. Serial No. 516,090
2 Claims. (Cl. 200—172)

1. Apparatus of the character described, comprising a hollow housing having an open side and adapted to receive a toggle switch with its pivoted operating lever projecting outwardly through said open side and limited in its throw from one extreme position to the other to produce on and off positions of the toggle switch, and a hollow cover therefor carrying actuating means for said lever including a shaft extending through the cover wall and provided exteriorly thereof with shaft operating means and interiorly thereof



with an operating member for the lever including forked arms for straddling such lever, said lever operating member being movable by oscillation of said shaft and in the same plane of movement with the lever, and stop devices for said lever operating member located on the inside of said cover and having abutment surfaces located to limit the throw of said member to positions short of the limits of throw of the lever.

1,924,352
SIDEWALK SIGN
Walter Edwards, Kokomo, Ind.
Application August 2, 1932. Serial No. 627,285
2 Claims. (Cl. 40—138)

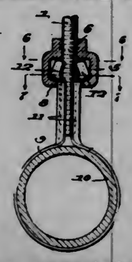


1. A sign comprising supporting legs, braces for holding the legs in their active positions, a frame pivotally mounted between the legs, a sign member pivotally mounted within the frame, and bolts passing through the frame and braces for holding the frame against movement.

1,924,353
HANGER FOR PIPES AND THE LIKE
Ray Fitzpatrick, East Palestine, Ohio
Application March 25, 1932. Serial No. 601,267
6 Claims. (Cl. 248—31)

4. A hanger for pipes and the like including a support rod, a pipe-supporting strap, and a connecting member adapted to engage the rod provided with an end opening and an internal chamber for receiving the ends of the strap, said ends being outwardly and upwardly directed

to provide bevelled shoulders to seat in the chamber of the member and to urge, responsive



to the weight of a supported pipe, portions of the strap into tight engagement with the rod.

1,924,354
BELT
Abraham L. Freedlander, Dayton, Ohio
Application April 16, 1931. Serial No. 530,537
4 Claims. (Cl. 74—63)



1. In combination, a belt comprising a rubber compression section, a neutral axis section composed of a relatively large wound cord arranged in a single layer on the compression section, a layer of transverse cords on the neutral axis, and a layer of straight laid fabric on the transverse cords.

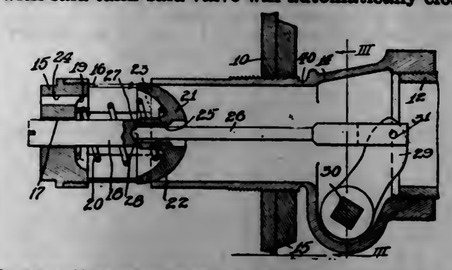
1,924,355
BELT
Abraham L. Freedlander, Dayton, Ohio
Original application April 16, 1931, Serial No. 530,537. Divided and this application November 5, 1932. Serial No. 641,497
2 Claims. (Cl. 154—4)



1. In a process of making a belt, laying a rubber layer on a drum, winding a cord on said rubber layer, arranging transversely of said cords a layer of smaller cords, winding a layer of straight laid fabric impregnated with rubber thereon, severing the belt material so formed into independent belts, and wrapping the belt with a wrapper of transversely arranged textile members at right angles to the longitudinal axis of the belt.

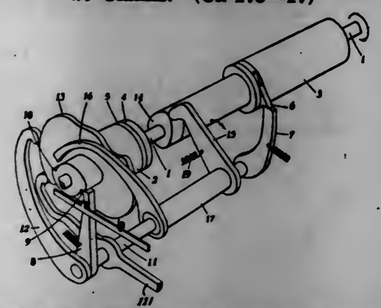
1,924,356
EMERGENCY VALVE
William N. Glab, Dubuque, Iowa, assignor to Morrison Bros., Dubuque, Iowa, a corporation of Iowa
Application November 27, 1931
Serial No. 577,507
2 Claims. (Cl. 137—162)

1. The combination with a tank having an outlet pipe extending therefrom of valve means in said pipe including a valve and seat therefor disposed within the confines of the tank, and actuating element for the valve arranged to open said valve and projecting out of the confines of the tank, said element and valve being so arranged that should said pipe break off at its junction with said tank said valve will automatically close



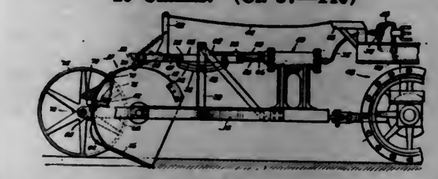
irrespective of movement of the actuating element, and a thermal member disposed externally of the tank for controlling the operation of said element, and normally holding the valve in open position.

1,924,357
START-STOP TELEGRAPH SYSTEM AND APPARATUS
Ronald George Griffith, Croydon, England, assignor to Creed and Company, Limited, Croydon, England
Application April 30, 1932, Serial No. 608,407, and in Great Britain March 4, 1932
20 Claims. (Cl. 178—17)



1. In a translating or selecting mechanism for start-stop apparatus, a continuously rotatable driving means, operating cam means, a clutch therefor, and separate cam means effecting the release of said clutch after a predetermined portion of a revolution.

1,924,358
EARTH MOVING DEVICE
Raymond L. Harrison, Albuquerque, N. Mex.
Application May 5, 1930. Serial No. 449,911
19 Claims. (Cl. 37—140)



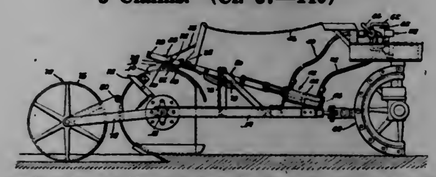
1. In an earth moving device adapted to be moved across the surface of the ground, the combination with a tiltable earth carrying bowl having a material receiving edge, of hydraulically operable means for adjustably controlling the position of said material receiving edge with respect to the surface of the material with which the bowl is associated, means for pivotally supporting said bowl, an abutment on the outer portion of said bowl adapted to be engaged by said hydraulically operable means, a second abutment carried by said bowl, and means adapted to be engaged by said second abutment whereby to effect the upward shifting of the bowl.

1,924,359
ROLL-OVER SCRAPER
Raymond L. Harrison, Albuquerque, N. Mex.
Application April 11, 1931. Serial No. 529,378
10 Claims. (Cl. 37—140)



1. In an earth moving device adapted to be moved across the surface of the ground, a support, a roll-over type earth carrying means having a material receiving edge, said means being mounted on said support and including a curved casing having an open bottom, latch means for securing the rotary earth carrying means in various positions of adjustment, a trailer coupled with said earth carrying means, and hydraulically operable means for controlling the position of said latch means.

1,924,360
EARTH MOVING DEVICE
Raymond L. Harrison, Albuquerque, N. Mex.
Application September 30, 1931
Serial No. 566,067
3 Claims. (Cl. 37—140)

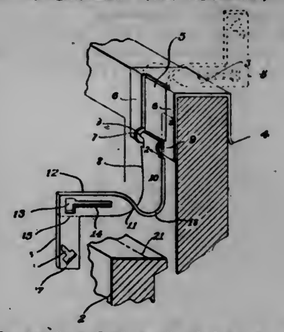


1. In an earth moving device of the class described adapted to be drawn across the surface of the ground, a rotary earth carrying means having a material receiving edge, a frame pivotally supporting said earth carrying means, a hydraulic actuator including a cylinder and a piston which is positively shiftable in either direction therein, a latch mechanism including a pair of oppositely disposed dogs, an abutment movable with the tiltable earth receiving means adapted to be positioned between said dogs, means connecting said latch mechanism with said hydraulic actuator, means for controlling the operative effectiveness of at least one of said dogs, and a valve mechanism for controlling the delivery of fluid under pressure to either side of the piston in said actuator, whereby to positively control the tilting of the earth carrying means in either direction.

1,924,361
PROCESS OF TREATING WASTE SULPHITE LIQUOR
Guy C. Howard, Wausau, Wis.
Application October 28, 1930. Serial No. 491,665
9 Claims. (Cl. 252—7)

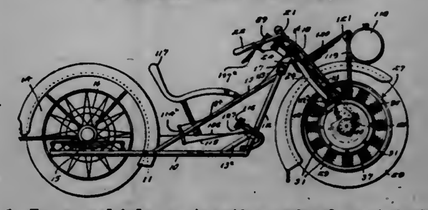
1. The process which comprises treating waste sulphite liquor with solid phase caustic lime at atmospheric pressure and at a temperature not exceeding 100° C. to obtain a liquor of alkalinity of the order of pH=12.0 and precipitated inorganic and organic matter, separating solids and liquid, subjecting said liquid to a steam pressure cook under conditions of sustained caustic lime alkalinity thereby precipitating additional inorganic and organic matter, and separating such precipitated matter from the resulting liquid.

1,924,362
SHADE BRACKET
Edward Jonas, New York, N. Y., assignor to Universal Home Specialties, Inc., Philadelphia, Pa., a corporation of Delaware
Application August 13, 1932. Serial No. 628,655
7 Claims. (Cl. 156—24)



1. A shade bracket embodying a spring clip shaped and proportioned to straddle and grip an upper window edge of the upepr sash adjacent one lateral edge thereof, one side of said clip being provided at a point spaced from its upper edge with transversely alined bearings, a substantially L shaped supporting arm, one end of which is provided with pivots cooperating with said bearings and the other end of which is provided with an aperture for a shade roller trunnion, said arm being provided at its elbow with a curved camming surface adapted for engagement and cooperation with the upper edge of a cooperating lower window sash to force said supporting arm to swing upwardly when the associated sashes are moved by one another.

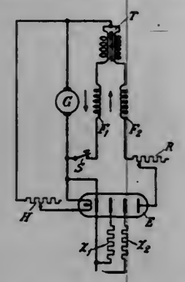
1,924,363
FRONT WHEEL DRIVE MOTORCYCLE
Kunzo Kanai, Bosler, Wyo.
Application March 12, 1932. Serial No. 598,466
2 Claims. (Cl. 180—31)



1. In a vehicle, a traction wheel, a tubular, fixed axle upon which the traction wheel turns, a crank case mounted at one end of said axle, an internal combustion engine carried by the crank case, a crank shaft in the crank case driven by the engine, the shaft extending through the tubular axle, a transmission casing attached to the other end of the tubular axle and including a clutch housing, transmission

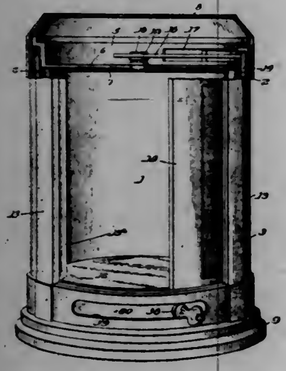
mechanism including a main shaft, the main shaft and crank shaft having, one, a socket, and the other projecting into said socket, a countershaft, a driven shaft, the latter being operatively geared to the traction wheel, coacting transmission gears mounted upon the countershaft and mounted loosely upon the main shaft, and selectively shiftable to secure different speeds and transmit power to the driven shaft, and a clutch for operatively connecting the main shaft to the counter-shaft.

1,924,364
ELECTRIC MACHINE
Otto Paul Koch, deceased, late of Berlin-Tempelhof, Germany, by Emma Koch, geb. Wilke, administratrix, Berlin-Tempelhof, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany
Application January 23, 1932, Serial No. 588,398, and in Germany January 24, 1931
5 Claims. (Cl. 171—223)



1. In an electric machine, two field windings and a discharge tube connected in series with one of these windings, such tube having two main electrodes and intermediate electrodes, and ohmic resistances interconnecting these intermediate electrodes.

1,924,365
TABERNACLE
Joseph J. Mariotti, Chicago, Ill., assignor to Daprato Statuary Company, Chicago, Ill., a Corporation of Illinois
Application February 5, 1932. Serial No. 591,047
9 Claims. (Cl. 109—3)

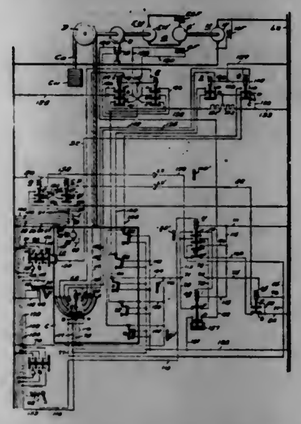


1. A tabernacle having a vault chamber with a door opening thereinto, a base beneath said chamber, a swinging door adapted to close said opening, a lock for securing said door in closed position, said lock being mounted independently of the door and projecting through said base and connections concealed in said base between said lock and said door whereby bodily movement of said lock will open and close said door, the movement of said lock being substantially less than the movement of the door.

1,924,366
REACTOR
Lester O. Marsteller, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
No Drawing. Application March 7, 1931
Serial No. 521,605
2 Claims. (Cl. 175—41.5)

2. A variable condenser comprising stationary and movable plates, said condenser having material on at least one of said plates irregularly disposed thereon, said material having a dielectric constant differing from that of the contiguous dielectric material.

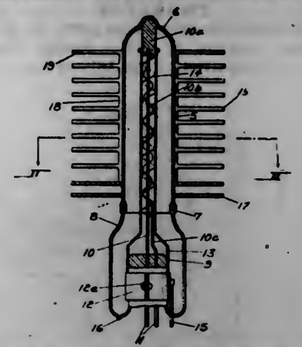
1,924,367
ELEVATOR SYSTEM
Harold V. McCormick, Evanston, Ill., assignor to Westinghouse Electric Elevator Company, a corporation of Illinois
Application February 6, 1932. Serial No. 591,378
9 Claims. (Cl. 187—29)



1. In an elevator system embodying a car and a motor for driving said car past a floor landing, the combination with a door, a lock for locking the door in its closed position, and means for unlocking said locking means, of means operably responsive to operation of the unlocking means for stopping the driving motor at a predetermined length of time after the unlocking of the door.

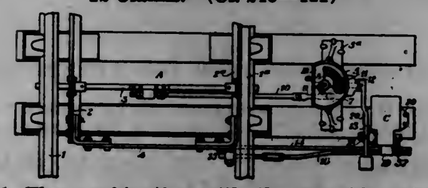
1,924,368
VACUUM TUBE
Frederick S. McCullough, Wilkinsburg, Pa.
Application March 13, 1924. Serial No. 698,925
11 Claims. (Cl. 250—27.5)

2. A vacuum tube comprising an envelope a metal anode provided with a depression and forming a part of the envelope of the tube, an electrode within the anode, a member fitting into said depression for positioning the said electrode relative to said metal anode, and a heat-resistant,



air-excluding chromium oxide-coating enveloping the anode.

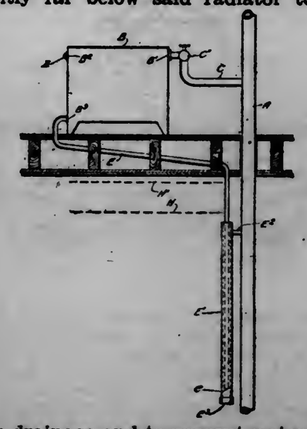
1,924,369
CONTROL APPARATUS FOR RAILWAY SWITCHES
William C. McWhirter, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application December 31, 1931
Serial No. 584,100
12 Claims. (Cl. 246—411)



1. The combination with the movable points of a railway switch and a hand throw lever for moving the switch points, of a lock rod connected with the switch points to move therewith, a locking plunger biased into engagement with said lock rod and cooperating with the lock rod for at times locking the switch points in one position, means for at times moving said locking plunger in opposition to its bias to unlock the switch points, means for preventing movement of the hand throw lever to move the switch points from said one position except when the switch points are unlocked, and a contact controlled by said locking plunger and arranged to be operated when said switch points are unlocked but not when said switch points are locked.

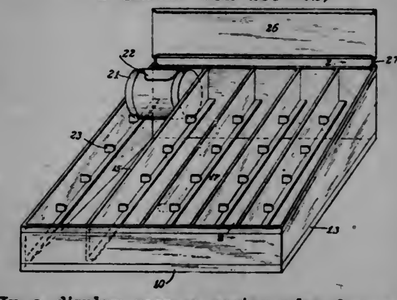
1,924,370
STEAM HEATING SYSTEM
Lajos Neményi, now by judicial change of name Louis Irving Northon, Mount Vernon, N. Y.
Application May 16, 1930. Serial No. 452,910
4 Claims. (Cl. 237—67)

1. In a steam heating system the combination with a radiator having a steam inlet, a water of condensation outlet and an air vent, said inlet and outlet being separated from one another to prevent interference by the incoming steam with the outflow of water of condensation, of a vertically disposed pipe adapted to supply steam to and to receive water of condensation from said radiator, a regulable connection between said radiator inlet and said pipe, a separate connection between said radiator outlet and said pipe comprising portions extending downward from said outlet and pipe, respectively, and communicating at their lower ends and forming means for maintaining a water seal in said connection preventing steam flow into the radiator through said outlet, and connected to said pipe sufficiently far below said radiator to provide



radiator drainage and to prevent water accumulation in the radiator under all normal operating conditions, and means associated with said air vent closing the latter to prevent the discharge of steam therethrough and opening said vent to permit air to pass into or out of the radiator through said vent.

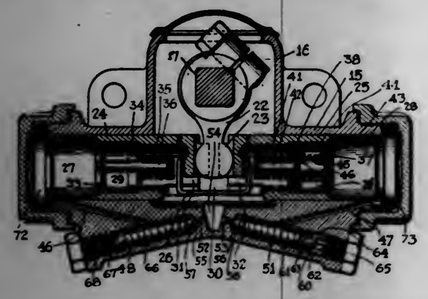
1,924,371
DISPLAY CASE
Nathan Owitz, New York, N. Y., assignor to John C. Welwood Corp., New York, N. Y., a corporation of New York
Application April 13, 1931. Serial No. 529,668
1 Claim. (Cl. 206—72)



In a display case, a rectangular frame consisting of vertical front, rear and side walls, a plurality of parallel partition walls within said frame having ends held on said front and rear walls for dividing said frame into a plurality of elongated open compartments, a pair of inclined rails on each partition wall extending longitudinally thereon on opposite sides and on opposite sides of each compartment, said rails forming means to support the margins of a bolt of ribbon wound thereon accommodating the ribbon on said bolt in the space between said rails, and stop members on said partition walls spaced from each other to accommodate a bolt of ribbon in the spaces between said stop members to hold said bolts in stationary position permitting unrolling of the ribbon therefrom in upward and downward directions without contact with any part of said display case.

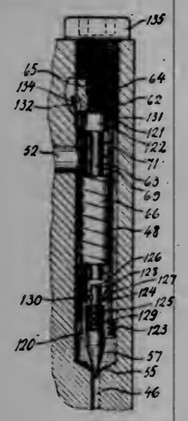
CARNEGIE LIBRARY OF ATLANTA

1,924,372
SHOCK ABSORBER
Adolph Peteler, Freeport, N. Y.
Application October 16, 1929. Serial No. 399,992
16 Claims. (Cl. 188—88)



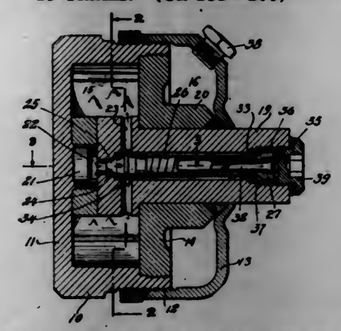
1. In combination, a hydraulic shock absorber having formed therein a passage thru which a cushioning liquid is adapted to be forced, a longitudinally wound thermostat adapted to wind and unwind due to temperature changes, and means responsive in its movement to the winding and unwinding action of said thermostat to vary the effective area of said passage.

1,924,373
SHOCK ABSORBER AND VALVE THEREFOR
Adolph Peteler, Freeport, N. Y.
Application December 16, 1930
Serial No. 502,642
4 Claims. (Cl. 236—93)



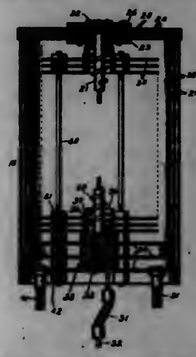
1. A thermostatic valve assembly for hydraulic shock absorbers including a coil thermostat, a member adapted to be fastened to the structure of the shock absorber, said member having formed thereon an extension over which one end of the coil thermostat is fitted, a valve seat, a member having formed thereon an extension over which the opposite end of the coil thermostat is fitted, said member being movable in its relation to said valve seat as said thermostat expands and contracts due to temperature changes, a valve carried by said last mentioned member and movable therewith in its relation to said valve seat, and means encircling the ends of the coil thermostat for fastening said ends to the extensions of the respective members.

1,924,374
SHOCK ABSORBER AND THERMOSTAT THEREFOR
Adolph Peteler, Freeport, N. Y.
Application August 1, 1931. Serial No. 554,487
13 Claims. (Cl. 188—100)



1. In a hydraulic shock absorber having a passage formed therein thru which the cushioning liquid is forced, a valve movable to vary the effective area of said passage, said valve having formed therein a by-pass, and a thermostatic element around which the cushioning liquid entering said by-pass is free to circulate, said thermostatic element being operable to move said valve in accordance with variations in temperature of the cushioning liquid.

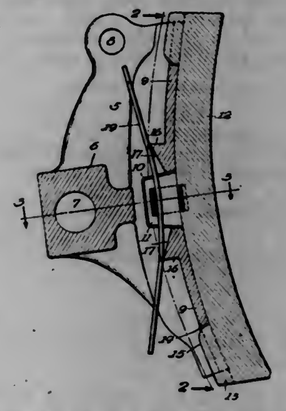
1,924,375
CATHODE STRUCTURE FOR THERMIONIC DEVICES
Otis W. Pike, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 9, 1930, Serial No. 487,541
Renewed April 27, 1933
5 Claims. (Cl. 250—27.5)



1. A cathode for an electric discharge device comprising a casing and a plurality of metal discs provided with upset flanges adapted to fit within one another and when assembled to form entirely said casing, and a filamentary heater member positioned within said casing.

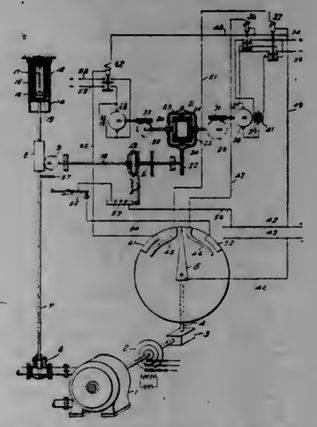
5. An electric discharge device comprising an envelope which contains inert gas at a pressure sufficient to support an arc-like discharge at the impressed voltages, a cathode and anode, an electric control member surrounding the anode, and a metallic member extending from said control member into the region of the cathode to reduce the voltage necessary for starting the device.

1,924,376
BRAKE SHOE MOUNTING
Robert B. Pogue, Chicago, Ill., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del., a corporation of Delaware
Application October 18, 1930. Serial No. 489,621
6 Claims. (Cl. 188—243)



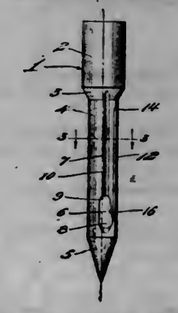
6. A brake head having a face plate and a recess therein to accommodate the attaching lug of a brake shoe, and bearing lugs on the back of the face plate above and below said recess, said bearing lugs having back faces inclined forwardly and toward each other.

1,924,377
REGULATOR SYSTEM
Werner Pontow, Berlin-Wilmersdorf, Germany, assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application February 18, 1932, Serial No. 593,837, and in Germany February 27, 1931
5 Claims. (Cl. 137—158)



1. In a regulator system, a prime mover, a regulating valve for controlling the supply of motive fluid to said prime mover, means for biasing said valve toward its closed position, means responsive to the speed of the prime mover for adjusting the position of the regulating valve, means actuated upon a predetermined increase in the speed of the prime mover above its desired value for disconnecting said second named means from said valve thus permitting said biasing means to actuate said valve in a closing direction, and means actuated upon a predetermined closing of said valve for effecting a reconnection of said second named means to said valve.

1,924,378
SEWING MACHINE NEEDLE
Joseph M. Rattie, Pawtucket, R. I.
Application January 9, 1932. Serial No. 585,676
1 Claim. (Cl. 112—224)

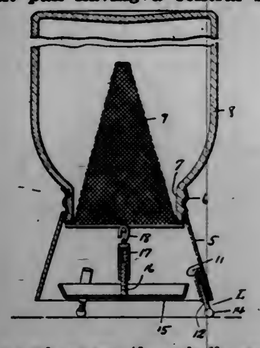


A needle of the character described provided with a thread-eye offset laterally relative to the median line of the needle and having one side inclined relative to the median line of the needle and a lateral cut formed in one side of the needle above the thread-eye and upon that side of the median line of the needle upon which the major portion of the thread-eye is located and having a straight longitudinally extending slit formed in the same side of the needle body as the lateral cut and extending substantially parallel with the median line of the needle to intersect the thread-eye opening and connect the lateral cut directly with the thread-eye above the widest portion of the thread-eye, and form a spring arm having a portion which serves to provide a part of one side of the thread-eye wall and a portion which normally lies closely against that part of the needle body upon one side of the slit to close the thread-eye, the latter portion being capable of being sprung away from the needle body to admit the passage of a thread from the lateral cut directly to the thread-eye whereby the thread-eye is normally completely closed to provide an interior face free from obstructions to the passage of the thread.

1,924,379
TRAP
James A. Reese, Waynesburg, Pa.
Application August 10, 1932. Serial No. 628,228
4 Claims. (Cl. 43—122)

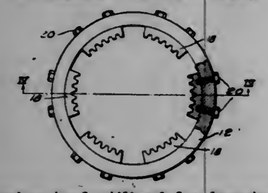
1. A fly trap comprising a frusto-conical body provided at its largest end with supporting legs adjustably connected to the body, an inverted jar having a neck, a conoidal screen, a collar engaged with the screen at the largest end of the latter, said collar having threaded engagement with the neck of said jar and said screen extending inwardly of said jar when said collar is engaged with the neck, and said body at the smallest end thereof receiving the neck of the jar with the upper end edge of the body engaging about said collar for supporting the jar substantially perpendicularly; rigid means extending across said collar, a suspension tube having means at one end engaging the rigid means for suspending

the tube from the collar internally of said body, and a bait pan having a central shank rising



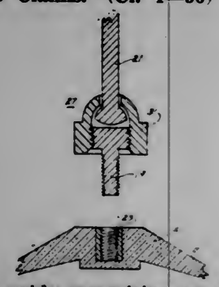
therefrom and screw threadedly engaged with said tube for supporting the pan pendantly within said body.

1,924,380
GEAR WHEEL LAPPING TOOL
Theodore R. Rideout, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application April 2, 1931. Serial No. 527,179
5 Claims. (Cl. 51—204)



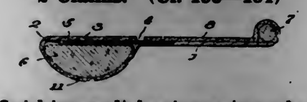
1. A lapping tool utilized for lapping the teeth of gear wheels comprising, in combination, a plurality of segmental lapping members, an annulus for supporting said lapping members, means for detachably securing the lapping members in spaced relation to the annulus, the lapping members having teeth thereon, the contour of said teeth constituting a lapping surface for so lapping the teeth of gear wheels that the contour and the position of each tooth of the gear wheel, when lapped, relative to each successive tooth thereof, are the same.

1,924,381
FLUSH VALVE ROD
Joseph Sachs, Pittsburgh, Pa.
Application January 30, 1933. Serial No. 654,147
5 Claims. (Cl. 4—56)



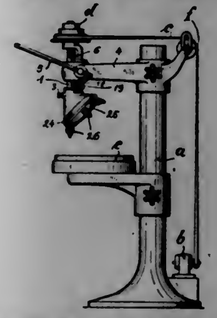
1. A valve guide comprising an element having a chamber therein substantially hemispherical in form with an extended cylindrical wall, said cylindrical wall being threaded, a channel through said element at the apex of said chamber, a rod having a diameter slightly less than the diameter of said channel and having an enlargement at one end, of dimensions sufficient to prevent passage of said enlargement through said channel, said rod being positioned in said channel with the enlargement positioned in said chamber, and another rod having one end in threaded engagement with said threaded cylindrical wall of said element.

1,924,382
FINISHING WELT
Robert C. Schemmel, Union City, Ind.
Application November 10, 1931
Serial No. 574,159
2 Claims. (Cl. 155—184)



2. A finishing welt having a two-ply base and a beaded flap hinged thereto, the base comprising a unitary strip of woven fabric folded upon itself, one of the two plies being divided at its free edge into two branching skirts each integrally interwoven with said ply, one skirt being relatively wide and the other being narrow, a plurality of lengths of pliable wire being woven into the narrow skirt and a narrow adjacent portion of the base, said wires crossing the free edge of the base, and a filler secured between said skirts and adapted to hinge along the free edge of the base constituting the beaded flap.

1,924,383
MULTIPLE TOOL HEAD FOR DRILLING, BORING, AND LIKE MACHINE TOOLS
Otto Stampfli, Zug, Switzerland
Application December 4, 1930, Serial No. 500,025, and in Switzerland December 11, 1929.
9 Claims. (Cl. 77—25)

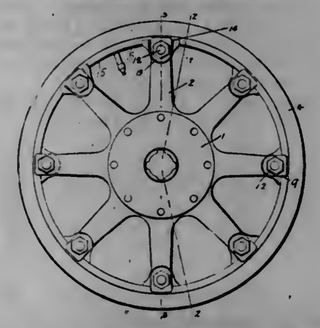


1. In a multiple tool head for drilling, boring and like machine tools, the combination of: a stationary member having two parallel bores; a driving spindle journalled in one of said bores; a slidable member sliding in the other one of said bores; a journal at the end of said slidable member having its axis located at an angle to the axis of said driving spindle; a movable member rotatable in said journal and participating in the sliding movement of said slidable member; a plurality of tool holders on said movable member; a dog coupling member having a conical recess on each of said tool holders; a dog coupling member on said driving spindle; a conical centering member in said last named dog coupling member adapted to engage said conical recesses; means for causing sliding movement of said slidable member parallel to said driving spindle to engage and disengage said dog coupling members; and means actuated by the sliding movement of said slidable member for automatically rotating said movable member.

1,924,384
TOUGH TUNGSTEN CARBIDE ALLOY
Winston F. Stoody, Whittier, Calif., assignor to Stoody Company, Whittier, Calif., a corporation of California
No Drawing. Application March 2, 1932
Serial No. 596,410
4 Claims. (Cl. 75—1)

1. A cast alloy consisting of 2½ to 18 percent nickel, 2½ to 18 percent copper, and the balance virtually all tungsten carbide.

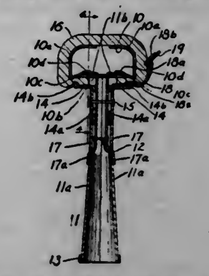
1,924,385
WHEEL
Jewell W. Vanderveer, Syracuse, N. Y., assignor to Erie Malleable Iron Company, Erie, Pa., a corporation of Pennsylvania
Application July 30, 1930. Serial No. 471,783
8 Claims. (Cl. 301—12)



1. In a wheel, the combination of a wheel center having a beveled seat on its periphery; a demountable rim seated on said seat; an alining shoulder facing said beveled seat extending from the periphery at one side of the wheel center and engaging an axially faced surface on the rim, the engaging surface of the shoulder and rim being more nearly radial than axial, said shoulder and opposing seat engaging points on the rim spaced apart a distance making the height of the segment based on the chord extending between the points greater than the depth of the shoulder; and means engaging the rim at the side of the wheel opposite the shoulder forcing the rim axially into clamping engagement with the seat.

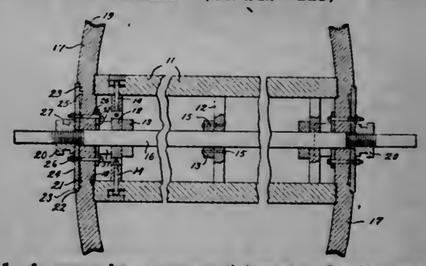
1,924,386
CLEANING MECHANISM
William G. Wallenbeck, Chicago, Ill.
Application August 24, 1931. Serial No. 558,915
7 Claims. (Cl. 15—121)

7. In a cleaning mechanism, the combination of a pad support comprising a sheet metal base portion having integral flanges extending in substantially parallel relation and in the same direction from said base portion, the outer portions of said flanges having curved conformations and extending towards each other, a cleaning pad wrapped around said flanges and having its edge portions resting against said base portion, clamping devices holding the pad edge



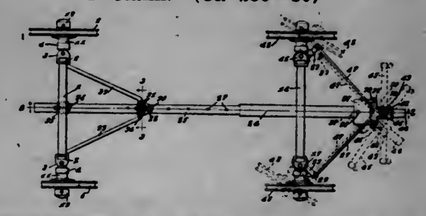
portions against said base portion, and a handle extending away from said base portion.

1,924,387
WARP BEAM
Frederick C. Washburn, New Bedford, Mass.
Application September 1, 1931. Serial No. 560,536
4 Claims. (Cl. 242—118)



1. A warp beam comprising a cylinder, beam heads secured against the opposite ends of the cylinder, each head having a substantially circular, concentric recess in its outer surface providing an annular abutment distant from the axis of the head, and a rigid bracing disc fitting within the recess of each head with its periphery bearing against said shoulder, and means for clamping the central portions of the discs against the outer surfaces of the respective heads, so that the radial stress of the rigid discs resists outward angular deflection of the rims of the heads.

1,924,388
RUNNING GEAR
Mathias J. Adams, Turkey River, Iowa
Application October 19, 1931. Serial No. 569,784
1 Claim. (Cl. 280—80)

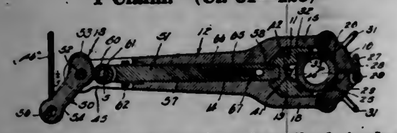


In a vehicle, a running gear including hollow metallic front and rear axles, wheels associated with said axles, a sleeve having the front axle fixed thereto, a reach rod adjustably secured in said sleeve and having the rear axle connected thereto for pivotal movement, a substantially V-shaped one piece hound having its remote ends secured to the rear axle and its

apex end crimped in downwardly curved formation to provide a bearing, a bracket member adjustably mounted on the reach rod, vertical ears included in the bracket member and receiving the downwardly curved crimped portion between the same, detachable means passing through the ears and received in the downwardly curved crimped portion for rockably securing the latter to the bracket, a draft means including a plate member pivotally secured to the sleeve at its forward end, radius rods pivotally secured to the plate member and having connection with the front wheels for turning the latter to steer the vehicle, and a tongue having pivotal connection with the plate member.

1,924,389
TONGS

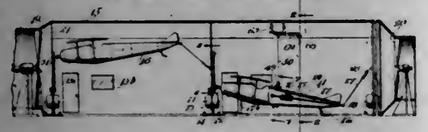
Lawrence F. Baash, Los Angeles, and William H. Maxwell, Beverly Hills, Calif.
Application March 18, 1930. Serial No. 436,695
1 Claim. (Cl. 81—128)



Tongs of the character described including, pipe encircling means, a handle rigidly connected with said means, a jaw slidably carried by said means operable to grip a pipe, and means for actuating the jaw including a rod connected with the jaw and slidable in an opening in the handle, a cam pivotally mounted on the outer end of the handle for operating the rod, means on the cam for receiving a line for turning the tongs, and means for limiting movement of the rod and jaw whereby the force transmitted by the line may turn the tongs after actuation of the jaw, said last mentioned means including a collar adjustably screw-threaded on the rod adapted to engage a part of the handle.

1,924,390
AVIATION INSTRUCTION APPARATUS

William H. Ball, Chicago, and James R. Ball, La Grange, Ill.
Application March 15, 1929. Serial No. 347,422
11 Claims. (Cl. 35—12)

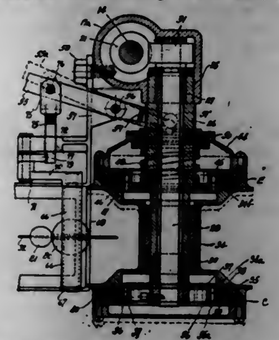


1. An aviation instruction apparatus comprising a housing, means to force a wind current through the latter, a set of frames in spaced succession along the course of the current, a practice plane in each space, and means fore and aft of the planes to connect them to correspondingly located proximate frames.

1,924,391
TROLLING WINCH

Donis M. Bardon, Frederick G. Greaves and Sern P. Watt, Seattle, Wash., assignors to Bardon-Greaves Co., Incorporated, a corporation of Washington
Application March 21, 1931. Serial No. 524,328
11 Claims. (Cl. 254—185)

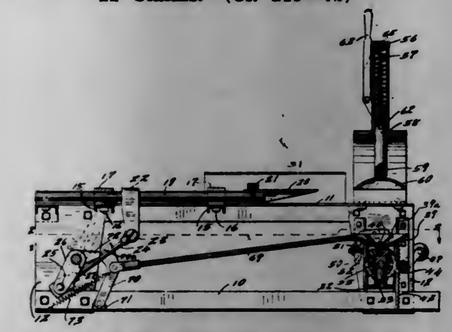
10. A cable winding device comprising a non-rotative axial support, a cable winding drum rotatable on the support and shiftable longitudinally thereon, a brake on the support at one end of the drum, a shaft extending through the support, means for driving the shaft, a clutch on



the shaft at the other end of the drum and means for manually shifting the drum from a neutral position into holding contact with the brake or with the clutch.

1,924,392
FRUIT CUTTING MACHINE

Alvin P. Barnes, Minneapolis, Minn., assignor, by mesne assignments, of one-third to H. W. Gehr, Anoka, Minn., and one-third to Isabell Hodge Barnes, Minneapolis, Minn., and one-third to Earl C. Friel, Minneapolis, Minn.
Application July 8, 1931. Serial No. 549,364
11 Claims. (Cl. 146—72)



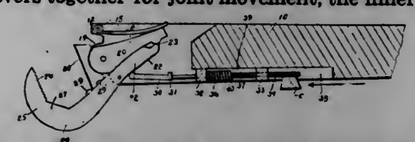
1. A machine for simultaneously dividing and serrating a fruit having in combination, means engaging the bottom of said fruit, means for engaging the top of said fruit, means for intermittently rotating one of said means to rotate said fruit, an angular knife reciprocable in a plane substantially midway between said means, and means for reciprocating said knife in synchronism with the intermittent rotation of said means.

1,924,393
PIPE AND NUT WRENCH

John W. Beery, Rosamond, Calif.
Application March 30, 1931. Serial No. 526,151
1 Claim. (Cl. 81—91)

A device as described consisting of a handle whose front terminal is bifurcated, the front edges of the sides of the bifurcated terminal being formed with parallel sector shaped anvils, a lever projecting into said bifurcated portion of the handle and having a front T-head of a width corresponding with that of the handle, said T-head having an inner concave surface designed to

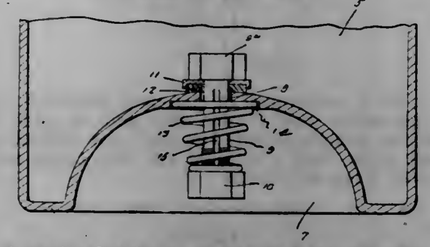
pivotally ride in contact with the sector-shaped anvils in all positions, a pivot pin projecting through both anvils concentrically and into the lever to allow the latter to rock upon said anvils, a second lever made longer than the first and having an outer serrated jaw disposed in spaced parallel relation to the T-head and its inner end also projecting into the bifurcated terminal, resilient means pressing the inner ends of both levers together for joint movement, the inner end



of the T-head engaging the inner face of the arm of the longer lever, manually operated means for swinging both levers jointly and for releasing them, and means for pivoting the longer lever between the points of contact of the inner ends of the two levers with each other and the points of contact of the inner end of the T-head and the inner face of the longer arm so that when both levers swing the serrated jaw and T-head remain parallel.

1,924,394
AIR VENT VALVE

Ferdinand Blank, Mount Clemens, Mich.
Application December 8, 1931. Serial No. 579,784
1 Claim. (Cl. 220—44)



A vent valve for a receptacle having a bottom wall provided with a vent orifice, and comprising a stem extending through said orifice and provided with vent grooves elongated longitudinally of the stem, a fixed head on the inner end of said stem, a rimmed washer on said stem adjacent said head, a yieldable disk member carried by said washer and fitted within the confines of the rim thereof and adapted to be compressed between said washer and the bottom wall of the receptacle, and a spring exteriorly of the receptacle and having an end engaged with said stem and a second end engaged with said wall and normally urging the stem outwardly.

1,924,395
CHIME

Gisbert L. Bossard, Dayton, Ohio, assignor to General Kontrolar Company, Inc., Dayton, Ohio, a corporation of Ohio
Application March 23, 1932. Serial No. 600,715
12 Claims. (Cl. 84—103)

1. In an electric chime of the character described, an electric motor having a rotatable armature, manually controlled means for starting the motor, an arm rotated by said armature, a fixed contact disk having a series of spaced contacts flush with the peripheral edge of the disk, a contact element on said arm, a spring urging said contact element toward the center of said disk so as to maintain the contact element on the disk periphery, solenoid chime strikers having electrical connections to said



spaced contacts so as to be selectively energized as said arm moves along the periphery of the disk, and a chime member for each of said chime strikers.

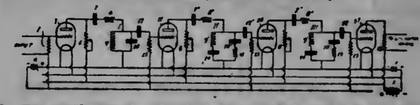
1,924,396
PLASTIC AND RESINOUS COMPOSITIONS OF MATTER AND METHOD OF MAKING SAME

Thomas S. Carswell, Kirkwood, Mo., assignor, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware
No Drawing. Application November 27, 1929
Serial No. 410,254
3 Claims. (Cl. 106—22)

1. A glycerol phthalic anhydride resin in which there has been incorporated a neutral phenyl benzene sulphonate.

1,924,397
FILTER-AMPLIFIER COMBINATION

Henri Chireix, Paris, France
Application March 30, 1929, Serial No. 351,424, and in France April 4, 1928
13 Claims. (Cl. 179—171)



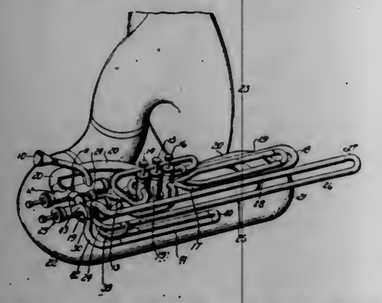
1. In a thermionic tube amplifier, at least one filtering group comprising a tube, a resonant circuit, composed of a capacity and an inductance in series and connected between the plate of said tube and the grid of a second tube, and a complex anti-resonant circuit composed of two resonant branches in parallel, each branch comprising an inductance and a capacity in inverse order, the inductance of each branch being in resonance with the capacity of the other branch to the natural period of the anti-resonant circuit, this circuit being connected across the grid-filament space of the said second tube.

1,924,398
ULTRA VIOLET LIGHT TRANSPARENT GLASS

Camille Dreyfus, New York, N. Y.
No Drawing. Application September 28, 1929
Serial No. 396,010
5 Claims. (Cl. 49—81)

1. Laminated glass comprising at least one sheet of glass that is substantially transparent to ultra-violet light and at least one layer of a plastic material containing a derivative of cellulose and a tartrate ester as plastifier.

1,924,399
WIND INSTRUMENT
Vincent Fiorino, Chicago, Ill.
Application February 28, 1933. Serial No. 658,890
12 Claims. (Cl. 84—388)



1. A wind instrument of the type having a mouth piece and a bell, said instrument including as a unitary part thereof two independent, manually selective, and severally usable pitch controls.

1,924,400
FUEL BURNER
Ross H. Forney, Dallas, Tex., assignor to Forney Combustion Engineering Company, Dallas, Tex., a corporation of Texas
Application February 1, 1932. Serial No. 590,092
5 Claims. (Cl. 158—104)



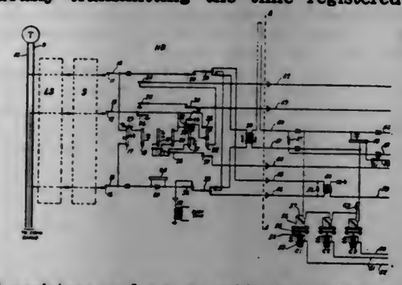
1. A low pressure burner head including an elongated header having longitudinal divergent faces provided with orifices, and inclined longitudinal air deflectors overhanging the faces of the header.

1,924,401
FIRE EXTINGUISHING COMPOUND
Acie J. Gilleo, Detroit, Mich., assignor to The Outrite Fire Extinguisher Corporation, Detroit, Mich., a corporation of Ohio
No Drawing. Application April 25, 1931
Serial No. 533,001
5 Claims. (Cl. 23—8)

1. A fire extinguishing compound consisting of a powdered material capable of liberating carbonic acid gas when decomposed by heat, and beeswax with which said material is coated so as to render it substantially water-repellant and free-flowing.

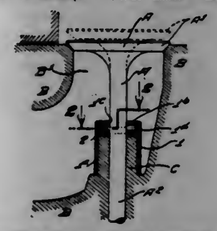
1,924,402
TIME SIGNALING SYSTEM
Harry E. Hershey, Oak Park, Ill., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application May 18, 1931. Serial No. 538,153
29 Claims. (Cl. 179—2)

1. In combination, a plurality of registers for registering the time of day, an impulse sender, a plurality of counting relays, a start relay, means for operating said start relay to control said impulse sender, and means including said impulse sender and said counting relays for continuously transmitting the time registered by



said registers as long as said start relay is operated.

1,924,403
VALVE MECHANISM FOR GAS ENGINES
James O. Hosmon and Edward W. Anderson, San Diego, Calif.
Application November 22, 1932
Serial No. 643,856
5 Claims. (Cl. 123—188)



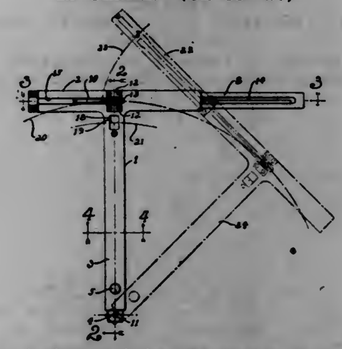
1. In a mechanism of the class described, the combination with a valve stem and its guide, of a collar slidably mounted on said valve stem above said guide, and a retainer for said collar supported from said guide.

1,924,404
SHOCK ABSORBER ADJUSTING DEVICE
Maurice Houdaille, Levallois-Perret, France, assignor to Houde Engineering Corporation, Buffalo, N. Y., a corporation of New York
Application March 28, 1931, Serial No. 526,070, and in France April 17, 1930
2 Claims. (Cl. 74—89)



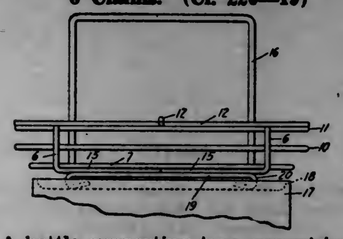
1. Remote control mechanism for a hydraulic shock absorber in which a valve is adjustable by rotation thereof to control the flow of the resistance fluid, said control mechanism comprising a shaft provided at its rear end with a driving pulley and a forwardly facing shoulder, a bearing sleeve in which said shaft is journalled and which engages its rear end with said shoulder and provided at its front end with a head, a screw nut arranged on the rear end of said sleeve, a bracket receiving said sleeve and engaging the front side of said nut, said bracket and head being adapted to engage opposite sides of a support, a driven pulley adapted to be connected with the shock absorber valve, belts having their ends passing in opposite directions around said pulleys, a bracket adapted to be mounted on the shock absorber frame, and flexible guide tubes which are mounted on said brackets and which receive said belts.

1,924,405
GENERATING ODONTOGRAPH
James W. Hughes, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application September 18, 1930
Serial No. 482,788
12 Claims. (Cl. 33—27)



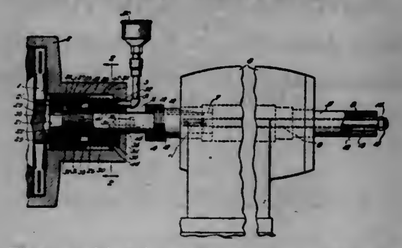
1. An instrument for developing an involute curve upon a plane surface including a rotatable member, a transverse slide mounted on said member having a substantially flexible face engageable with said surface, and means for compressing successive limited areas of said face against said surface so as to prevent slipping of said slide in a course tangent to the locus of a point on said member during rotation of the latter.

1,924,406
DISPLAY DEVICE
Maxwell B. Jester and Albert J. Smith, Chicago, Ill., assignors to Calumet Refining Company, Chicago, Ill., a corporation of Illinois
Original application July 18, 1932, Serial No. 623,158. Divided and this application December 23, 1932. Serial No. 648,624
6 Claims. (Cl. 220—19)



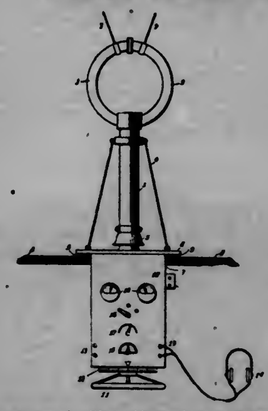
1. A bottle supporting tray comprising a plurality of substantially radial rods, a series of bottom rings rigidly secured to said rods and spaced one from the other, top rings arranged above said bottom rings in staggered relation thereto, and means for supporting said top rings on said radial rods in vertically spaced relation to said bottom rings.

1,924,407
GLAND
Harry E. La Bour, Elkhart, Ind.
Application April 4, 1931. Serial No. 527,816
11 Claims. (Cl. 103—111)



1. The combination with a pump casing having a hub, an impeller in said casing and a shaft for said impeller extending concentrically through the hub but not engaging it, of a packing gland surrounding said shaft within said hub comprising a pair of carbon blocks engaging the shaft, means for definitely holding said blocks in spaced relation on said shaft, a cage surrounding said shaft but spaced away therefrom and fitting over one of said blocks, parallel faces on said cage engaging said blocks simultaneously, a packing means between the cage and hub, and means for holding the cage against rotation with the shaft and for moving it longitudinally of said shaft to compensate for wear of said blocks.

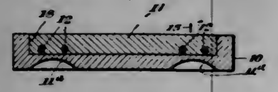
1,924,408
RADIO DIRECTION FINDER APPARATUS
August Leib, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany, a corporation of Germany
Application April 2, 1929, Serial No. 351,892, and in Germany April 13, 1928
2 Claims. (Cl. 250—11)



1. A compact directional receiver comprising a base member, a support rigidly fastened to one side of said base member, a cylindrical member rotatably mounted in said support, said cylindrical member terminating in a frame aerial

shield enclosing a frame aerial system, a pair of linear absorption members symmetrically supported by said shield, said absorption members taken with said shield constituting a vertical aerial, receiving means fixed to the other side of said base member, said receiving means being adapted to derive energy from said aerial systems, and means adjacent said receiver for rotating said support and said aerial systems.

1,924,409
HEATED DIE FOR DRYING FIBROUS ARTICLES
George James Manson, Hawkesbury, Ontario, Canada
Application August 28, 1929. Serial No. 389,074
1 Claim. (Cl. 219—37)



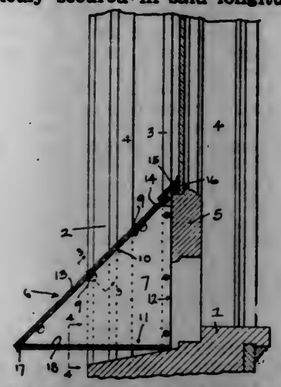
A metal die of the character described comprising a body portion having a working face, a shaped localized portion of which is to be heated, the reverse side of the die formed with a recess overlying the portion of the working face to be heated, a metal insert adapted to detachably fit within the recess, an electric heating element embedded within the insert and electrically insulated therefrom, said heating element shaped to adjacently overlie and conform in parallelism to the shaped localized portion of the working face to be heated thereby, said heating element comprising a metal tube and a high resistance wire extending therethrough and insulated therefrom by an insulating material filling the tube.

1,924,410
METHOD AND MEANS FOR FORMING SEPARABLE PLATED COATINGS ON METAL SURFACES
Charles E. Marker, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application March 12, 1931
Serial No. 522,168
5 Claims. (Cl. 204—8)

1. The method of forming sheets of nickel which consists in forming a film of a chromic acid solution on the surface of a metal plate to prevent the adhesion of nickel thereto, plating nickel on said film covered surface, and stripping the nickel from said surface.

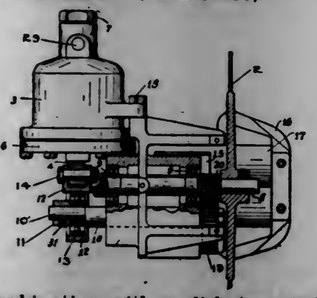
1,924,411
WINDOW VENTILATOR
Julius G. Moser, San Francisco, Calif.
Application December 2, 1929. Serial No. 410,989
1 Claim. (Cl. 98—99)

In a window ventilator for sliding windows, said ventilator having a housing of substantially triangular cross section secured at its opposite ends to the window jambs, the base of the triangular housing being perforated and arranged at right angles opposite the lower end of the window, the side of the housing adjacent the window being open, and the inclined side of the housing being imperforate and being extended from the outer edge of said base upwardly toward the window, a clip on the longitudinal edge of the inclined imperforate side of the ventilator extended alongside the window, and a resilient rubber edging fixedly secured in said longitudinal clip



to be resiliently pressed against the sliding window at the top of the ventilator.

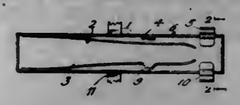
1,924,412
ELECTRICALLY OPERATED PUMPING APPARATUS
Donald M. Pearson, Oakland, Calif.
Application October 7, 1930. Serial No. 486,969
1 Claim. (Cl. 103—38)



The combination with a disk type induction motor having a shaft, said motor being continuously connected in a closed electrical circuit and adapted to stall under a predetermined torque and to remain stalled under full voltage of circuit without overheating, of a fluid pump comprising a cylinder and a piston reciprocable therein, a driven shaft connected in driven relation with said motor shaft, an eccentric on said driven shaft, a second eccentric rotatably mounted on said first mentioned eccentric, means for locking said eccentrics with respect to each other in any desired angular position to vary the eccentricity of said second eccentric with respect to said driven shaft, a connecting rod for said piston connected to said second mentioned eccentric, said pump being arranged to pump liquid fuel from a source of supply to an outlet, whereby adjustment of said eccentrics relative to each other will increase or decrease the load on the motor to permit stalling of the motor when the predetermined torque has been reached.

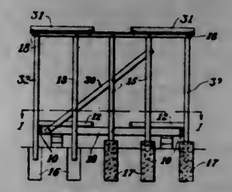
1,924,413
SPEEDOMETER
Edward D. Phinney, Mount Vernon, N. Y.
Application June 27, 1931. Serial No. 547,440
6 Claims. (Cl. 116—74)

1. An automobile speedometer comprising in combination a tuned vibratile reed, means for mounting said reed on a part of said automobile subject to mechanical engine vibrations, in a po-



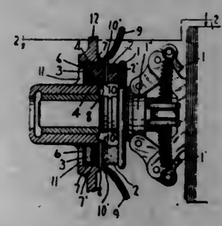
sition for substantial mechanical vibration in a horizontal plane, and an anvil for said reed.

1,924,414
BUILDING STRUCTURE
Harry S. Ring, Chicago, Ill.
Application January 2, 1930. Serial No. 417,893
2 Claims. (Cl. 72—1)



1. That process of producing a building structure which comprises the steps of patterning portions of such building by templates, attaching frame members to the templates, supporting the templates and frame members above the site for the structure, erecting a foundation for the skeleton frame thus formed, adding curtain walls to the frame, and thereafter removing the templates.

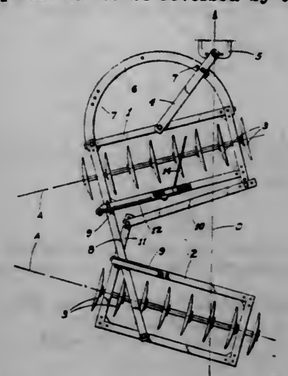
1,924,415
ELECTRICAL CONTACT
Clarence Ringwald, North Hampton, Ohio, assignor to Robbins & Myers, Inc., Springfield, Ohio, a corporation of Ohio
Application August 28, 1931. Serial No. 559,954
4 Claims. (Cl. 200—166)



1. In an electrical contact, a carbon brush, a shank of insulating material secured to a portion thereof as a permanent unitary part thereof, and means for securing a conductor to the exposed portion of said brush.

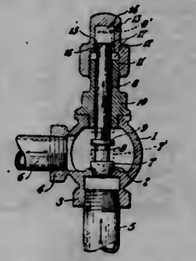
1,924,416
OFFSET HARROW
Bruce E. Rose, Porterville, Calif.
Application August 4, 1931. Serial No. 554,988
9 Claims. (Cl. 55—83)

1. An offset harrow structure comprising front and rear harrow gangs normally disposed at a predetermined angle to each other, means pivotally connecting the gangs for lateral swinging movement in either direction and means also connecting the gangs to cause the angular relationship thereof to be reversed by the swinging



of the front gang toward the same side as said angle.

1,924,417
VALVE
James P. Ryan, Easthampton, Mass.
Application April 11, 1931. Serial No. 529,439
3 Claims. (Cl. 137—161)

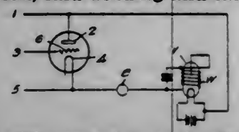


2. In combination, a valve construction formed with a curved seat portion, a semi-spherical valve engaging the curved seat portion, a valve stem, a bonnet member having an aperture thru which the stem of the valve passes, said stem extending above the upper end of the bonnet member, a cap member secured to the bonnet member and having fusible material therein which engages the valve stem for retaining the valve on its seat, the cap member being constructed to permit the fusible material to escape around the valve stem when the fusible material reaches a definite temperature, whereby the internal pressure of the piping system will cause the valve to be raised from its seat.

1,924,418
CURRENT SUPPLY MEANS
Fritz Schröter, Berlin, Germany, assignor to Telefunken Gesellschaft fur Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application July 18, 1929, Serial No. 379,168, and in Germany July 27, 1928
4 Claims. (Cl. 250—27)

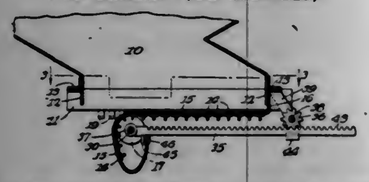
3. Signalling apparatus comprising, a thermionic tube having anode, cathode and control grid electrode, said electrodes being adapted to be connected in alternating current signalling circuits, and means for supplying uni-directional current to the anode of said tube and for limiting the amount supplied thereto comprising, a source of anode current, a thermionic device connected be-

tween said source and said anode, a winding in said connection, said winding and said device be-



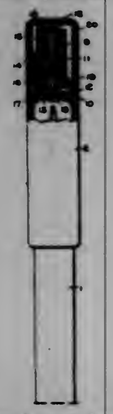
ing co-axial with respect to each other, the electrodes of said device being located within the field of said winding.

1,924,419
BIN GATE
Alfred D. Sinden, Aurora, Ill., assignor to Stephens-Adamson Mfg. Co., a corporation of Illinois
Application September 24, 1931
Serial No. 564,814
18 Claims. (Cl. 221—145)



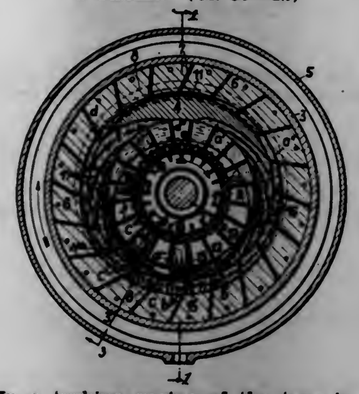
8. A bin gate comprising a gate frame having an opening for material to be discharged, a flexible closure for the opening, means for moving the closure into closed position against the pressure of material to be held and separate means for supporting the closure in closed position.

1,924,420
PEN
William Walter Smout, Rhyl, Wales
Application September 23, 1932, Serial No. 634,499, and in Great Britain April 30, 1932
5 Claims. (Cl. 120—42)



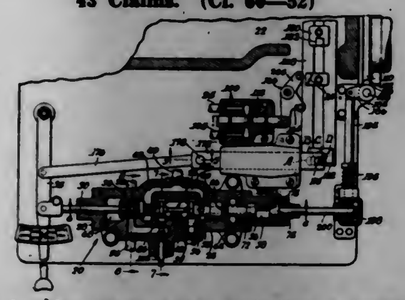
1. In combination a cap for a fountain pen, a blotting roller, a carrier member for said blotting roller, said carrier comprising a frame of U shape, pivots in the arms of said U shaped frame, said blotting roller being rotatably mounted in said pivots, a supporting bracket for said carrier member, an arm on said supporting bracket extending parallel to the axis of the cap, a pivot at the projecting end of said arm, said carrier member being rotatable on said pivot about an axis at right angles to the axis of the blotting roller, and a secondary cap adapted to fit removably on said fountain pen cap and to enclose said blotting roller, carrier and supporting bracket.

1,924,421
TURBINE ENGINE
Georg Stauber, Berlin, Germany
Application February 27, 1932, Serial No. 595,586, and in Germany March 2, 1931
4 Claims. (Cl. 60—12)



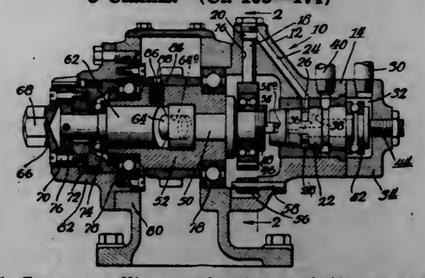
1. In a turbine engine of the type in which power impulses are delivered to the engine shaft by liquid pistons having a constant aggregate volume, a rotor having radially disposed combustion chambers, an outer ring spaced from said rotor and rotating as a unit therewith, having storage cells for the liquid pistons and an interposed stationary ring between the rotor and said outer ring having guide passages connecting the combustion chambers of the rotor and the storage cells of said outer ring, and said outer ring being provided with means for progressively varying the area of said storage cells.

1,924,422
VALVE CONSTRUCTION
Ernest J. Svenson, Rockford, Ill.
Application November 16, 1929
Serial No. 407,781
43 Claims. (Cl. 60—52)



1. A valve construction including a housing, a unitary valve shiftable within said housing, said valve and housing having cooperative passages for variously directing fluid, said housing having a fluid dispatching orifice, means for introducing fluid at a given pressure into association with said valve, and another means for introducing fluid at another given pressure into association with said valve, the disposition of the passages in said housing and valve being such as to direct both of said introduced fluid mediums through said fluid dispatching orifice when the valve occupies a given shifted position, and to direct only one of said fluids through said orifice when the valve occupies another shifted position.

1,924,423
PLUNGER PUMP
Ernest J. Svenson, Rockford, Ill.
Application May 28, 1930. Serial No. 456,572
8 Claims. (Cl. 103—174)



1. In a propelling mechanism a stationary supporting means, a plurality of radially reciprocable pistons in said supporting means, rotary driving means operatively associated with said pistons, and means associated with each piston and having a surface adapted to make a line contact with the piston and an oppositely disposed surface adapted to engage the periphery of the rotary driving means to prevent said piston from experiencing side thrust, all of the oppositely disposed points of engagement of the piston and periphery with said surfaces being positioned in a plane parallel to the line of action of said piston.

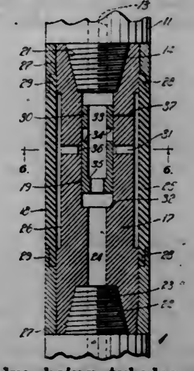
1,924,424
FISHING TOOL FOR WELLS
Ray S. Van Meter, Malin, Oreg.
Application July 15, 1932. Serial No. 622,705
2 Claims. (Cl. 294—86)



1. A fishing tool having a shank, an eye in said shank, and a head, said head terminating at the lower end in a point, and having a longitudinal tube larger in bore in the upper than in the lower portion and having also a frontal slot of a width about equal to the diameter of the lower portion of the tube.

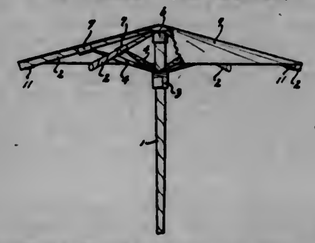
1,924,425
BLOW-OUT PREVENTER
Harry P. Wickersham, Huntington Park, and Erwin Burns, Los Angeles, Calif., assignors to Baash-Ross Tool Company, Incorporated, Los Angeles, Calif., a corporation of California
Application May 28, 1931, Serial No. 540,582
Renewed June 13, 1933
12 Claims. (Cl. 255—1)

1. A device for use in connection with a drilling string having a fluid passage which includes, a body adapted to be interposed in the drilling string, packing means carried by the body and expansible by fluid pressure to pack with the well casing, shiftable valve in the body normally closing a port in the body for admitting fluid under pressure from the fluid passage to the packing



means, the valve being tubular and normally adapted to pass fluid through the passage, and a control means for the valve on the upper end of the drilling string including a slide operable to move a closure member into the passage to close the opening in the valve.

1,924,426
PAPER UMBRELLA
Seaborn Z. Williams, Cleveland, Ohio
Application May 13, 1932. Serial No. 611,054
14 Claims. (Cl. 135—20)



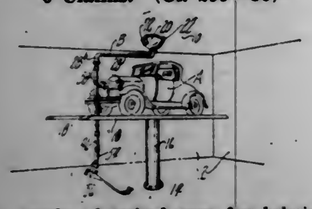
1. An umbrella frame member comprising a roll of paper flattened at its end to allow flexure thereat as in a hinge, and elsewhere having tubular form and consequent rigidity.

1,924,427
PAPER UMBRELLA
Seaborn Z. Williams, Cleveland, Ohio
Application May 13, 1932. Serial No. 611,055
10 Claims. (Cl. 135—20)



1. In an umbrella of the class described and having a spindle, ribs, secured to one end thereof, and a sleeve movable therealong, strut means joining said sleeve with said ribs and comprising a conical member of paper, said member being bent to form a peripheral flange, and a cover over said ribs and secured to said flange.

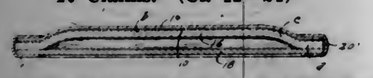
1,924,428
OVERHEAD SWIVEL ARM FOR LUBRICANT SUPPLY HOSE
Charles G. Wilson, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application September 2, 1931. Serial No. 560,859
6 Claims. (Cl. 299—86)



2. An overhead swivel arm for lubricant supply hoses comprising a fixture adapted to be secured to a ceiling or the like, a vertical hub thereon, an arm having a vertical end swivelly mounted therein, a central laterally extending portion and a down turned terminal end, and annular socket in the upper end of said hub and around the vertical end of said arm, a collar on said arm and ball bearings beneath said collar and in said socket and a lubricant supply hose extending from said ceiling, loosely through said fixture supported by said arm and extending from said down turned end thereof and means on said hose to engage said vertical hub and thereby prevent downward movement of said hose relative thereto.

6. A lubricant hose supporting device comprising a fixture adapted to be secured to a ceiling or the like, a vertical hub thereon, an arm having a vertical end swivelly mounted in said hub, means to limit the angle of rotation of said arm to less than three hundred and sixty degrees, a laterally extending central portion and a depending outer end, said arm being tubular, a lubricant supply hose extending from said ceiling, loosely through said fixture and then through said arm and depending from the outer end thereof and a clamp collar on said hose above said vertical end of said arm and resting thereon.

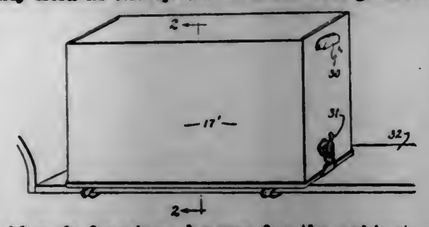
1,924,429
EMBOSSED COVERED PICTURE AND PROCESS OF MAKING SAME
Henry S. Winzeler, Bryan, Ohio, assignor to The Ohio Art Company, Bryan, Ohio, a corporation of Ohio
Application July 29, 1932. Serial No. 625,817
10 Claims. (Cl. 41—24)



10. The process of making an embossed covered picture comprising the application of a film of celluloid dissolvent to a picture, the placing of said picture with the subject face thereof against a sheet of celluloid, the embossing of said picture and said celluloid so as to provide convex peripheral edges therefor after intimate bonding of said subject face to said celluloid by the film of celluloid dissolvent and the application of a binding around the peripheries of said picture and said sheet of celluloid.

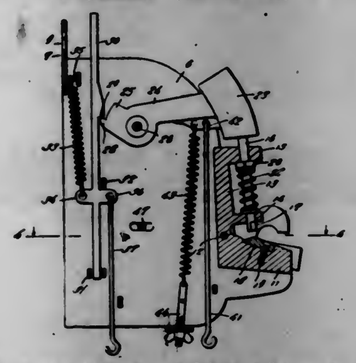
1,924,430
PORTABLE PICNIC CABINET
James H. Woods, San Fernando, Calif.
Application March 1, 1932. Serial No. 595,997
6 Claims. (Cl. 190—12)

1. A picnic cabinet comprising spaced bottom and top portions and end portions connecting the same, guides secured to and spaced outwardly from the front and rear edges of said ends, and front and rear side members slidably and detachably held in the spaces between said guides and



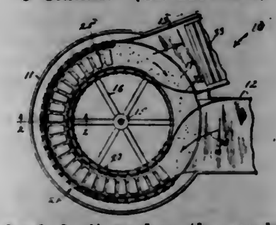
said ends forming closures for the cabinet, and means at the top of the cabinet for slidably supporting said detachable sides when the cabinet is opened to form a table.

1,924,431
SAW SETTING MACHINE
Francis Louis Zingheim, San Jose, Calif.
Application April 30, 1932. Serial No. 608,513
3 Claims. (Cl. 76—62)



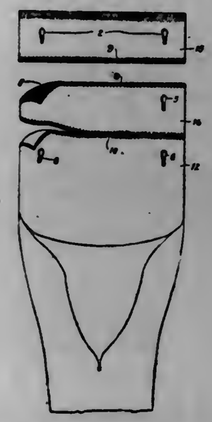
1. In a saw setting machine, a hammer, manual operating means for the hammer, and interchangeable means between the operating means and the hammer whereby the hammer is operated directly against the work by force or released to strike against the work by gravity.

1,924,432
WASHER BRUSH AND HOLDER
Earl G. Griffith, Los Angeles, Calif.
Application October 24, 1930. Serial No. 490,930
9 Claims. (Cl. 146—199)



1. In a fresh fruit washer, the combination of: a support; a brush having a back, there being channels formed in opposite edges of said back; and a holder including a length of spring wire bent in a U-shape, the side portions of said U yieldably extending into said channels, the ends of said portions being rebent to form gripping arms for attaching said back to said support.

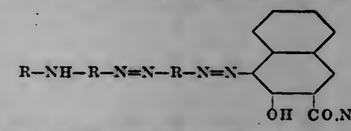
1,924,433
STOCKING
Clayton H. Harpster, Elyria, Ohio
Application January 28, 1932. Serial No. 589,437
2 Claims. (Cl. 2—240)



1. A woven stocking comprising a generally tubular leg enclosing portion and a single flap integral with the front wall of the tubular portion extending upwardly therefrom and substantially as wide as the top of the tubular portion, two vertically extending laterally spaced substantially parallel rows of buttonholes adjacent opposite lateral edges of the flap adapted to engage with buttons upon a wearer's apparel waist, whereby a selected hole in one row may cooperate with a selected hole in the other row to jointly support the flap, and, through the flap, support the entire front wall of the stocking in various correspondingly adjusted degrees of supporting tension and in correspondence to buttons variously disposed, and the relative spacing of the holes in one vertical row being substantially the same as the spacing of the corresponding holes of the other vertical row whereby an upper pair of transversely spaced holes may be aligned with a lower transversely equally spaced pair and engaged with a common pair of buttons to shorten the overall length of the supported stocking.

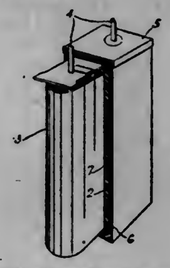
1,924,434
WATER-INSOLUBLE AZO-DYESTUFFS
Erwin Hoffa and Paul Jörg, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application January 30, 1930, Serial No. 424,732, and in Germany February 18, 1929
10 Claims. (Cl. 260—84)

1. As new products the water-insoluble azodyestuffs of the following probable formula:



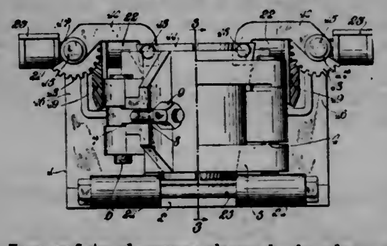
wherein the R's represent residues of the benzene or naphthalene series, said products being dark powders and yielding, when produced on the fiber, black dyeings.

1,924,435
CONDENSER
William J. Homer, Hinsdale, Ill., assignor, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application February 12, 1932. Serial No. 592,502
2 Claims. (Cl. 175—41)



1. The method of sealing a condenser unit in a container which consists in filling the container with melted insulating compound, allowing part of the compound to congeal, removing the compound which is still liquid after a layer of the compound of the desired thickness has become congealed over the entire inner surface of the container, and of then placing the condenser unit in the container and pouring melted insulating compound into the remaining space so that it blends with the layer of compound attached to the container to seal the condenser in the container.

1,924,436
SAFETY CLAMP
Harry C. Johansen, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application September 18, 1931
Serial No. 563,597
16 Claims. (Cl. 24—263.5)

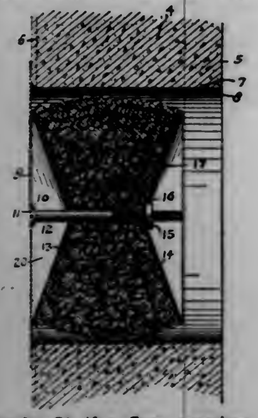


1. In a safety clamp, a clamp body, clamp jaws mounted in said body, and means for moving said clamp jaws into their gripping or released positions including pivoted levers connected to said jaws, an operating shaft journaled on said body, levers fixed to said shaft adjacent the opposite ends thereof at opposite sides of said body, gear segments on the hubs of said first mentioned levers intermeshing with gear segments on the extremities of said second mentioned levers, and means for rotating said shaft.

1,924,437
CHIMNEY FLUE COVER
John A. Johnson, Crawfordsville, Ind., assignor to National Supply & Service Corporation
Application August 17, 1932. Serial No. 629,106
8 Claims. (Cl. 126—319)

1. A stop for a flue opening comprising a plug of expansible heat insulating material and

means for expanding the material diametrically



to compressively fit the flue opening after insertion of the material therein.

1,924,438
STRAIN CLAMP
Charles W. Kemper and John T. Kemper, Hayward, Calif.
Application June 13, 1932. Serial No. 616,815
8 Claims. (Cl. 24—136)



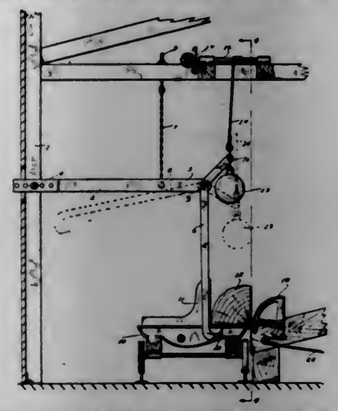
1. A cable strain clamp comprising an elongated body shell U-shape in cross section, and a cover plate for the open side of the shell removably secured thereto, a suspension connection at one end of said shell, said cover plate terminating in a position to permit deflection of a cable in a device away from said connection, and means within the body shell movable in a direction generally longitudinally thereof for clamping the cable at a point within the body.

1,924,439
PROCESS OF FORMING ALLOY MATERIALS BY ELECTROPLATING
Harold J. Kersten, Cincinnati, Ohio
No Drawing. Application April 18, 1932
Serial No. 606,075
18 Claims. (Cl. 204—2)

18. An electrolyte for plating white gold which contains potassium gold cyanide substantially in the amount of four grams of gold per litre, and is saturated with nickel formate.

1,924,440
LOG TURNER
Walter R. Klatt, Goldendale, Wash.
Application January 27, 1932. Serial No. 589,281
1 Claim. (Cl. 143—103)

In apparatus of the class described, the combination of a log carriage having stationary and movable deck-blocks associated therewith to receive a log therebetween, a supporting frame disposed at one side of said carriage, an arm pivotally and adjustably mounted to said frame and extending outwardly therefrom to a point directly above said log carriage, a hook swingably mounted to the outer end of said arm and having a forwardly offset extension beyond the pivot and adapted for engagement when the shank thereof is in vertical position with the underside of a log mounted on said carriage, a



limit stop means interconnecting said supporting frame with said arm, and power transmission means carried by said frame connecting with the offset portion of the shank of said hook which offset portion is also provided with a counterweight.

1,924,441
PROCESS FOR PREPARING CYCLOHEXYLAMINES
Georg Kränzlein, Martin Corell, and Wilhelm Döhle, Hochst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application November 10, 1926, Serial No. 147,612, and in Germany November 19, 1925
7 Claims. (Cl. 260—128)

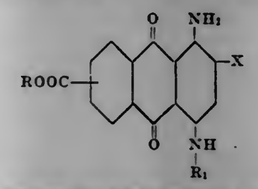
1. The process which comprises heating a mono-halogencyclohexane with a compound of the type:

R—NH—X,

wherein R is an aromatic radical and X stands for hydrogen or alkyl.

1,924,442
DYESTUFF OF THE ANTHRAQUINONE SERIES
Georg Kränzlein, Martin Corell, and Ernst Diefenbach, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application October 30, 1931, Serial No. 572,224, and in Germany February 6, 1930
7 Claims. (Cl. 260—60)

7. The compounds of the following general formula:

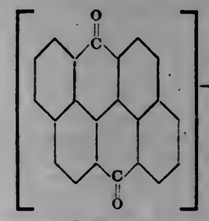


wherein R stands for hydrogen or an alkyl radical, X means the sulfonic acid group and R_1

means alkyl or an unsulfonated aryl, or X stands for halogen and R_1 for alkyl or a sulfonated or unsulfonated aryl, and the —COOR group stands in one of the positions 5, 6, 7 and 8, said products having generally a blue color.

1,924,443
HALOGENATION OF CYCLIC COMPOUNDS
Max Albert Kunz, Mannheim, and Karl Koeberle and Erich Berthold, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application March 8, 1929, Serial No. 345,587, and in Germany October 19, 1928
10 Claims. (Cl. 260—61)

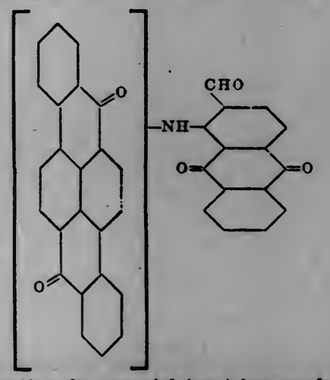
8. As new articles of manufacture monohalogen derivatives of the compound corresponding to the formula:



in which R stands for an alkyl group which may be substituted by halogen.

1,924,444
VAT DYESTUFF AND METHOD FOR ITS PRODUCTION
Max Albert Kunz, Mannheim, and Karl Koeberle and Erich Berthold, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application March 14, 1929 Serial No. 347,168
3 Claims. (Cl. 260—61)

1. The vat dyestuffs probably corresponding to the formula

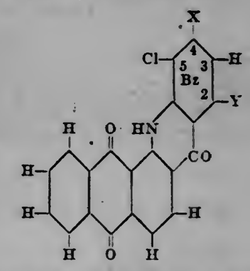


dyeing cotton from a violet vat brown shades of excellent fastness and dissolving to a red solution with a bluish tinge in concentrated sulphuric acid.

2. The process of producing vat dyestuffs, which comprises heating a 1-amino-2-methylanthraquinone and a monobromo-3.4.8.9-dibenzopyrenequinone in an organic solvent in the presence of a gas comprising oxygen.

1,924,445
HALOGEN ANTHRAQUINONE BENZACRIDONE
Max Albert Kunz, Mannheim, and Karl Koeberle and Erich Berthold, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application October 23, 1930, Serial No. 490,810, and in Germany October 28, 1929
5 Claims. (Cl. 260—37)

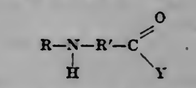
1. Chloroanthraquinone-2.1(N)-benzacridones corresponding to the formula:



in which the positions marked X and Y may be substituted by chlorine, dyeing from orange to blue red shades from violet vats and dissolving in concentrated sulphuric acid to give orange solutions.

1,924,446
HALOGENATED ANTHRAQUINONE ACRIDONE AND THE PROCESS OF PREPARING IT
Max Albert Kunz, Mannheim, and Karl Koeberle and Erich Berthold, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application November 10, 1930, Serial No. 494,802, and in Germany November 18, 1929
5 Claims. (Cl. 260—37)

1. A process of producing halogenated acridones, which comprises causing a halogenating agent selected from the group consisting of chlorine, bromine and agents supplying these halogens, to react on an imino-ortho-carboxylic acid compound of the general formula:

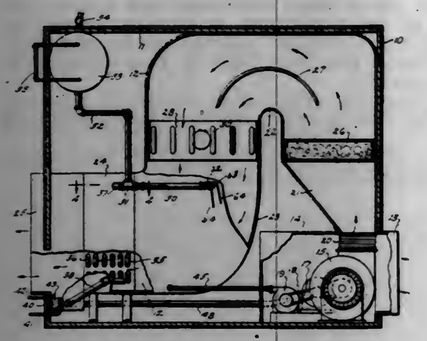


in which R stands for an aromatic radicle which may be substituted by halogen, but is unsubstituted in an ortho position to the imino group, R' stands for the anthraquinone nucleus, and Y stands for a substituent selected from the group consisting of alkoxy and phenoxy radicles and the amino group.

1,924,447
AIR CONDITIONING APPARATUS
Leo L. Landauer, Dallas, Tex.
Application November 7, 1932. Serial No. 641,546
10 Claims. (Cl. 257—9)

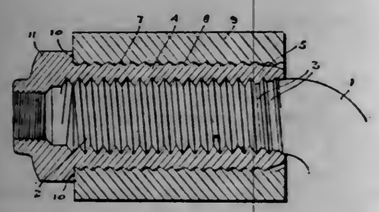
1. In an air conditioning device, a housing, an undulating flue extending through said housing, means for forcing air currents through said flue, a heater arranged adjacent the discharge end of the flue in the path of the air currents,

and a pre-heater disposed in the flue in advance



of the heater and in the path of the air currents.

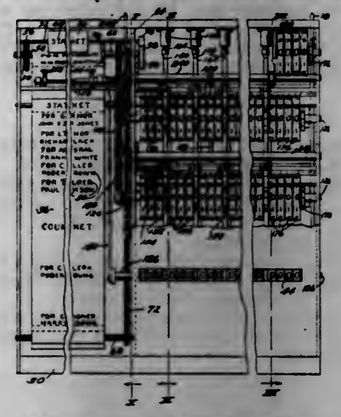
1,924,448
THREADED SPRING SHACKLE
John Wycliffe Leighton, Port Huron, Mich.
Application December 21, 1931
Serial No. 582,321
3 Claims. (Cl. 267-54)



1. The combination with parts connected by a shackle each part having a threaded orifice, of a shackle member having an external threaded bearing surface, and a bushing having a threaded internal bearing surface to fit said shackle and an external threaded surface adapted to thread into the threaded orifice, the orifice threads and the co-operating external threads of the bushing presenting a wide obtuse angular arrangement of thread surfaces whereby upon the application of longitudinal stress on the bushing said respective thread surfaces engage in a clutching locking contact.
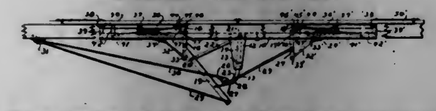
1,924,449
VOTING MACHINE
George A. Luther, Kansas City, Kans.
Application June 22, 1931. Serial No. 545,882
15 Claims. (Cl. 235—55)

1. In a voting machine, a plurality of individual candidate vote-registering mechanisms, arranged in series by party ticket; a party vote-registering mechanism; setting means common to both mechanisms and movable from one to the other whereby to render operative the selected mechanism; and a manually controlled operating means movable to register a vote at the location of said setting means said setting mechanisms being slidably mounted for recti-



linear reciprocation behind said registering mechanisms.

1,924,450
DOOR CONTROL MECHANISM
Harry H. Marshall, Detroit, Mich.
Application September 30, 1932
Serial No. 635,627
1 Claim. (Cl. 268—62)

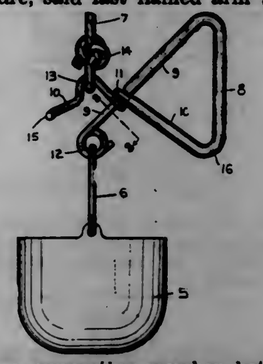


In a device of the class described including a pair of oppositely hinged doors, a strip of iron fastened above the doors, a plate fastened to said strip of iron and extending laterally therefrom, a lever pivotally mounted on said plate, a pair of levers pivotally mounted, in parallelism to the plate, on said strip of iron, links connecting the lever mounted on the plate and the levers mounted on the strip of iron, striker plates mounted on the ends of the levers mounted on the strip of iron, a pair of lazy-tongs, a pair of bars, the ends of which are pivotally mounted to the extremities of the strip of iron, links connecting the lazy-tongs with the levers mounted on the strip of iron, the other end of the lazy-tongs being pivotally mounted on the aforesaid bars, a pair of rods held rigidly to the oppositely hinged doors, the outer extremities of the lazy-tongs being pivotally connected to the bars, a pair of locking hooks, links connecting the rods to said hooks, an arm connected rigidly to one of the levers attached to the strip of iron, a pulley attached to one end of the lever attached to the plate, a pair of operating cables secured to the lever attached to the plate, and the arm attached to the lever which is pivotally mounted to the strip of iron.

1,924,451
BOWL-HOLDER FOR MELTED SOLDER
Roy McClarkey, Valley, Nebr.
Application April 8, 1933. Serial No. 665,162
3 Claims. (Cl. 294—27)

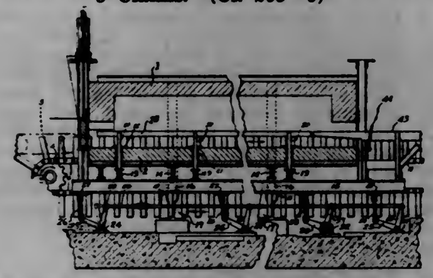
1. In a holder for the purposes described, a metallic strip bent between its ends to provide a handle and a pair of intersecting arms, one of said arms being provided outwardly of said intersection with a hook, the other arm of said pair being provided at its terminal, trans-

versely thereof, with a shoe having a longitudinal curvature, said last named arm being bent



to provide a supporting-member between said intersection and said shoe.

1,924,452
CONVEYING MECHANISM FOR FURNACES AND THE LIKE
Edward N. Millan and Percival C. Jones, Middletown, Ohio, assignors to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application February 18, 1932. Serial No. 593,816
5 Claims. (Cl. 263—6)

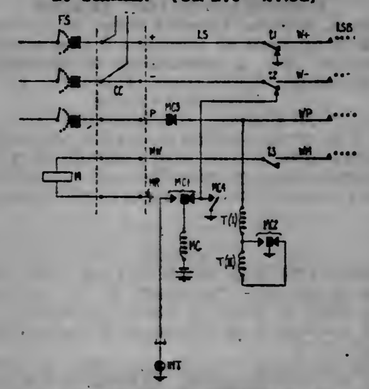


5. In combination with a furnace having a floor, chain conveyor elements having substantially parallel upper laps disposed below the upper surface of said floor and having supporting elements extending above said surface, vertically reciprocating members located between said conveyor elements, a frame to which said members are attached, said frame being below said floor and said members extending through said floor, means for vertically reciprocating said frame, rails attached to said members, said rails extending in the direction of said conveyor elements, a source of power motion transmitting means for lifting said frame, vertical guiding means for said frame, and an operative connection between said source of power and said motion transmitting means, a source of power for said conveyor and control means for effecting the sequential operation of said several power sources.

1,924,453
PROCESS OF MANUFACTURING IRON TETRACARBONYL
John E. Muth, Berkeley, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
No Drawing. Application January 12, 1931
Serial No. 508,386
9 Claims. (Cl. 23—203)

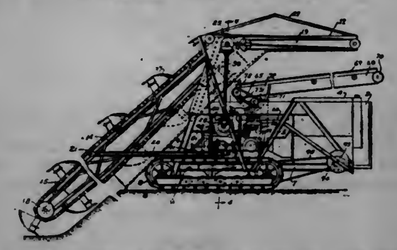
1. In a process of manufacturing iron tetracarbonyl, the steps of forming a solution of iron pentacarbonyl in an alkaline liquid, and then acidifying the alkaline solution with a mineral acid.

1,924,454
AUTOMATIC SWITCH FOR USE IN TELEPHONE OR LIKE SYSTEMS
William George Patterson and Ernest Jules Gachet, London, England, assignors to Siemens Brothers & Company Limited, London, England
Application March 7, 1932, Serial No. 597,142, and in Great Britain March 17, 1931
10 Claims. (Cl. 179—27.51)



1. An electromagnetic step-by-step switch having a common frame, a wiper carrying element mounted on said frame, a pair of magnets mounted on said frame, means operated by one magnet for operating the wiper element step by step, means for holding the element in advanced position at certain times, and means controlled by the other magnet for holding the element in advanced position at other times.

1,924,455
SWINGING CONVEYER MECHANISM
Augustus J. Penote, Shaker Heights, Ohio
Original application June 6, 1927, Serial No. 196,745. Divided and this application June 15, 1931. Serial No. 544,413
4 Claims. (Cl. 198—118)



1. An endless conveyer having at one end a supporting frame including a hollow non-rotatable casing, an elongated main frame upon which said supporting frame is movable, a vertically elongated hollow casing rotatably mounted upon a vertical axis in said non-rotatable casing, means rigidly secured to said rotatable casing for mounting said conveyer thereon, a vertical drive shaft mounted axially within said rotatable casing, two power driven shafts mounted longitudinally of said main frame, one extending through the non-rotatable casing and

having gear connections within the latter for actuating said rotatable casing and the other having at one end driving connections with said vertical shaft outside the casings, driving connections between said vertical shaft and the conveyer, the power driven shafts operating independently, so that one may swing the rotatable casing and the conveyer together on its vertical axis, and the other may drive the conveyer while in any position of said rotatable casing.

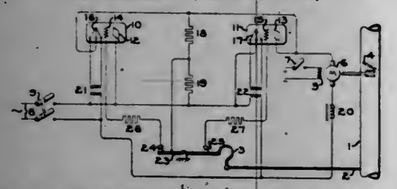
1,924,456
INTERMEDIATE AND DYESTUFF OF THE DIBENZANTHRONE SERIES
Melvin A. Perkins, Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 11, 1930 Serial No. 427,654
19 Claims. (Cl. 260—61)

19. The process which comprises reacting Bz1-halogen-benzanthrone with selenium to give Bz1, Bz1'-benzanthronyl-selenide, and subjecting the latter to caustic fusion to form isoviolanthrone.

1,924,457
BRIQUETTE AND BINDER FOR THE SAME
Isidor Rosenwald, Parksville, N. Y., assignor of one-third to Mildred Belous, Brooklyn, N. Y., and one-tenth to Benjamin Kirschstein, New York, N. Y.
No Drawing. Application July 2, 1932 Serial No. 620,728
8 Claims. (Cl. 44—18)

2. A porous briquette for fuel purposes, comprising particles of fuel material, and a bonding agent containing skimmed milk.

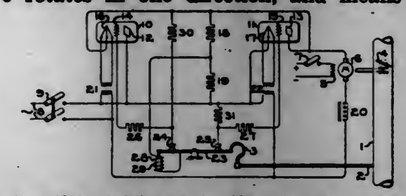
1,924,458
MOTOR CONTROL CIRCUIT
John D. Ryder, Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application September 3, 1931. Serial No. 561,005
19 Claims. (Cl. 172—179)



1. A method of stopping rotation of a direct-current energized motor armature whose related field is separately excited with direct-current which includes substituting alternating-current energization for the direct-current energization.

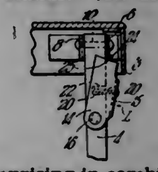
1,924,459
MOTOR CONTROL CIRCUIT
John D. Ryder, Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application September 3, 1931. Serial No. 561,006
11 Claims. (Cl. 172—179)

10. A control circuit for a motor having a field winding and an armature winding, a source of direct-current for the field winding, an alternating-current circuit, the armature winding in said alternating-current circuit, a plurality of electronic discharge devices in the alternating-current circuit, means for selectively making effective one of the devices whereby the armature rotates in one direction, and means for



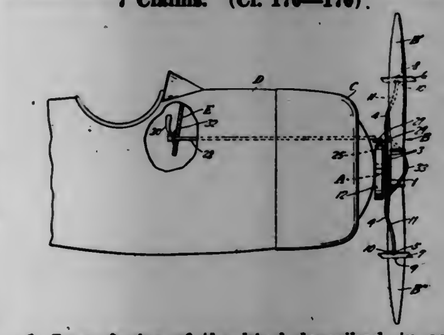
varying the resistance in the circuit of the effective device after one of the devices has been made ineffective for varying the speed of the armature rotation.

1,924,460
TABLE
Max Schaffer, Springfield, Mass.
Application December 12, 1932 Serial No. 646,903
15 Claims. (Cl. 45—11)



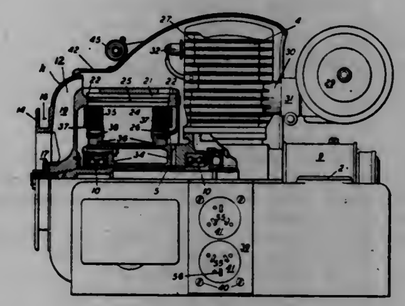
1. A table comprising in combination, a bracket having cheeks, a leg pivoted to and embraced between said cheeks for swinging movements in a certain plane between collapsed and supporting positions, a lock pivoted to said leg for swinging movements between unlocked and locked positions in a certain plane and having parts for engaging one of said cheeks when in locking position to releasably hold said leg against swinging movements, the said parts of said lock being spaced to engage said cheek at opposite sides of said pivotal connection between said leg and cheeks.

1,924,461
ATTACHMENT FOR AIRCRAFT PROPELLERS
Helmer Schanke, Blue Earth, Minn.
Application March 17, 1932. Serial No. 599,386
7 Claims. (Cl. 170—176)



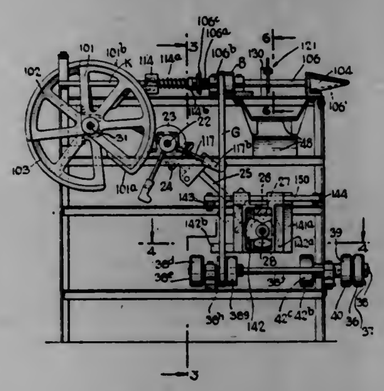
1. In a device of the kind described, in combination with a propeller and propeller shaft, a yoke slidably mounted on the shaft, vanes hinged to the blades of the propeller, arms extended from the yoke and pivotally connected to the said vanes, and means for reciprocating the said yoke to swing the vanes to various angles relative to the path traveled by the propeller blades or to fix the blades at a trailing angle relative to the blades.

1,924,462
PORTABLE CURRENT SUPPLY
Philip F. Scofield, Palo Alto, Calif., assignor to Heintz & Kaufman, Ltd., San Francisco, Calif., a corporation of Nevada
Application October 4, 1932. Serial No. 636,231
4 Claims. (Cl. 290—1)



1. In combination a portable engine-driven alternator, a receptacle mounted thereon, a separable rectifier panel adapted to fit said receptacle, and means for attaching a D. C. work circuit to said rectifier.

1,924,463
ICE CREAM CONE MACHINE
Elie Shaloum and Joseph Matalon, New York, N. Y., assignors to S. & S. Cone Corporation, New York, N. Y., a corporation of New York
Application October 24, 1931. Serial No. 570,896
8 Claims. (Cl. 107—58)



5. In a cone making machine, the combination of a conical mold, a spindle having a conical mandrel at one end thereof and a block yieldably mounted on the other end thereof, a compression spring on said spindle, means for intermittently contacting with said block to displace said mandrel towards and into engagement with said mold, said spring being adapted to be compressed as the mandrel is displaced towards and into said mold, said spring being adapted to expand and to initiate displacement of said mandrel out of and away from said mold upon cessation of contact of said first-named means with said block and means intermittently operable for completing the displacement of said mandrel to its original position.

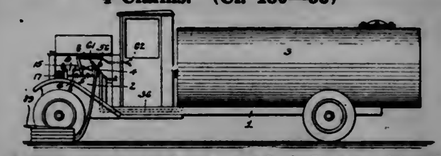
1,924,464
SMOKELESS POWDER AND PROCESS OF MANUFACTURING SAME
John M. Skilling, Penns Grove, N. J., and Oliver J. Teeple, Jr., Cragmere, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware
No Drawing. Application February 10, 1932 Serial No. 592,178
12 Claims. (Cl. 52—21)

1. The process of making propellent powders which comprises preparing a nitrocellulose-water mixture, partially colloiding the nitrocellulose with a substantially water-insoluble volatile solvent, removing the excess water, further colloiding and gelatinizing the nitrocellulose by mechanical means, and removing substantially all the solvent therefrom.

1,924,465
PROCESS OF PRODUCING PROPELLENT POWDER
Oliver J. Teeple, Jr., deceased, late of Cragmere, Del., by Ella E. Teeple, administratrix, Cragmere, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 27, 1932 Serial No. 639,838
21 Claims. (Cl. 52—22)

1. The process of producing a propellent powder which comprises treating a water-suspension of a nitrocellulose base grain powder with a liquid explosive material of relatively high potential that is substantially insoluble in water and is a solvent for a portion of the powder, until the nitrocellulose is substantially impregnated with the material.

1,924,466
PUMPING MECHANISM
James A. Smith, Panama City, Fla.
Application March 14, 1932. Serial No. 598,844
4 Claims. (Cl. 180—53)

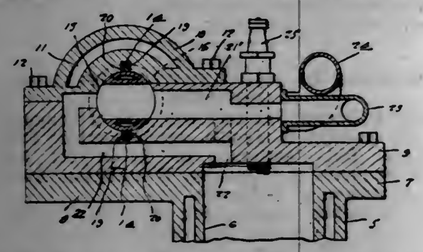


3. In a motor and power take-off assembly, the combination of a motor having a main shaft extending outwardly therefrom and provided with a belt pulley, of a fan shaft having a belt pulley, a power take-off mechanism comprising a base secured to the upper portion of the motor above the plane of the fan shaft, a third pulley journalled in a bearing supported by the base and disposed in a plane with the crank shaft pulley and the fan shaft pulley, a belt entrained over the respective pulleys whereby the rotation of the crank shaft will directly effect the rotation of said third pulley, a rotary pump supported by said base and having a shaft in alignment with the axis of said third pulley and extending adjacent said third pulley, and a clutch mechanism arranged between the said third pulley and the pump shaft for connecting and disconnecting the same at will.

1,924,467
INTERNAL COMBUSTION ENGINE
Joseph Edward Smith, Crescent City, Calif.
Application October 30, 1930. Serial No. 492,273
1 Claim. (Cl. 123—59)

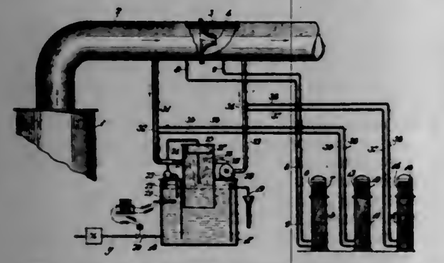
In an engine of the class described, a removable head having an inlet passage and an exhaust

passage therein, for each cylinder of the engine, said head having a longitudinally extending groove in its top surface which intersects the said passages, said head having a high part at one side of the groove and a low part at the opposite side whereby the groove is of greater cross sectional area than a semi-circle a cap detachably connected to the top face of the head and having a groove in its lower face, forming with the first-mentioned groove a circular bore said cap having a depending part at one side of its groove contacting the low side of the head and a high part at the other side of its groove contacting the high part of the head, the walls of the bore having annular grooves therein spaced apart, each of the aforementioned passages en-



tering the bore between a pair of said grooves, a rotor rotatably arranged in the bore and having annular rings thereon fitting in the grooves and said rotor having ports passing therethrough, one between each pair of rings, said ports registering with the passages during the rotation of the rotor, said head having a longitudinally extending groove therein projecting out into the bottom of the first mentioned groove and the cap having a longitudinally extending groove therein opening out into the top of the bore forming groove therein said longitudinal grooves intersecting the annular grooves, and a plurality of spring pressed strips in said longitudinal grooves in the cap and head for engaging the rotor between the rings thereof.

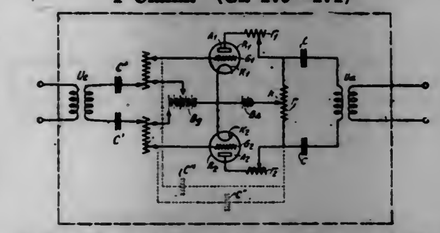
1,924,468
METHOD OF AND APPARATUS FOR MEASURING GASES
Thomas Wade Stone, Fort Wayne, Ind., assignor to The Western Gas Construction Company, a Corporation of Indiana
Application June 20, 1927. Serial No. 200,254
11 Claims. (Cl. 23—255)



1. The method of testing gases which comprises measuring the rate of flow of the raw gas from the take-off of a water-gas machine or the like, passing a sample of raw gas through a correcting bath of cold fluid maintained at a constant given temperature at a standard pressure, measuring the rate of flow of this sample before as well as after correction to determine the ratio of corrected gas to raw gas, and applying this ratio to the rate of flow of the raw gas from said takeoff.

4. In apparatus for testing gas in combination, means for metering the rate of flow of a sample of the raw gas from the take-off of a water-gas machine or set, a bath compartment containing cold liquid maintained at a constant temperature at a standard pressure, means for passing said sample of raw gas through the cold liquid bath and a device for measuring the rate of flow of said sample both before and after passing through the cold water bath.

1,924,469
PUSH-PULL AMPLIFIER
Felix Strecker, Berlin, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
Application January 2, 1932, Serial No. 584,406, and in Germany October 22, 1930
1 Claim. (Cl. 179—171)

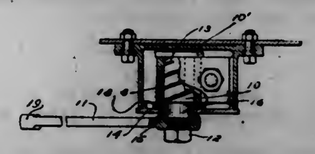


In an amplification system, in combination, two electron tubes each having cathode, grid and plate electrodes, a source of power connected to said cathode electrodes, a pair of aperiodic input resistors, an aperiodic output resistor, said input resistors being provided with a multiplicity of variable tap connections, two additional output resistors, a source of plate potential, a plurality of condensers, a balanced network including certain of said tap connections wherein said cathode electrodes are connected together and to said input resistors, said cathode electrodes being connected through said source of plate potential to a variable central tap on said output resistor, said grid electrodes being connected to certain of said taps on said input resistors on opposite sides of said cathode taps, each of said plate electrodes being connected through one of said additional output resistors to said output resistor, said two plates being connected to opposite sides of said output resistor through variable taps, input connections including a transformer for said amplifying system connected to certain of said variable input taps on said input resistors through two of said condensers, output connections including a transformer for said amplifying system connected to said output resistor on opposite sides of said central tap thereof through two other of said condensers, whereby the energy supplied to said input connections is amplified and delivered to said output connections substantially without distortion.

1,924,470
SNUBBER
Clark A. Tea, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application November 23, 1929
Serial No. 409,404
11 Claims. (Cl. 188—130)

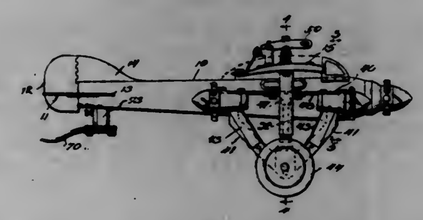
2. A device of the class described comprising a casing, a shaft extending into said casing, means

in said casing comprising a contractable bearing for rotatably supporting said shaft, said contractable bearing being adapted to frictionally resist rotation of said shaft with a gradually in-



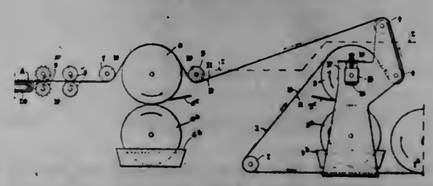
creasing force during rotation of said shaft in one direction and to gradually release said shaft during the rotation thereof in the opposite direction.

1,924,471
AIRPLANE
Lewis J. Tetlow, Holyoke, Mass.
Application August 19, 1929. Serial No. 386,925
14 Claims. (Cl. 244—29)



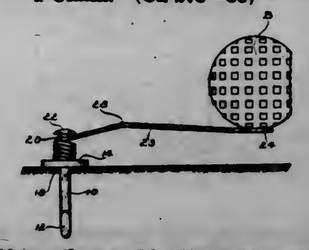
1. In an airplane, braking mechanism comprising in combination, an auxiliary wing mounted above the plane adjacent each end thereof, and adapted to yield vertically at its trailing end and a vane pivoted adjacent the trailing edge of the flexible wing adapted to form a pocket with the latter and with the upper surface of the plane.

1,924,472
METHOD OF AND MEANS FOR MANUFACTURING SOUND ABSORBING MATERIAL
George Miller Thomson, Caledonia, Ontario Canada
Application November 28, 1930
Serial No. 498,895
10 Claims. (Cl. 154—28)



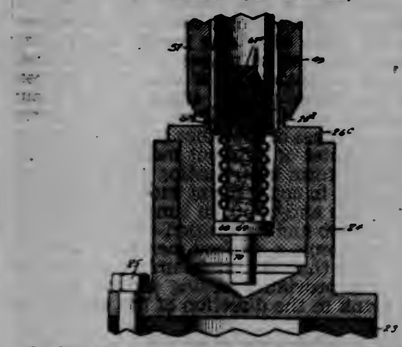
1. A method of making sound absorbing material which comprises applying adhesive at staggered spaced points on opposite sides of flexible material, producing a stack of rectangular strips of the flexible material with the adhesive thus applied thereto, allowing the adhesive to dry, then expanding the resulting material to a definite predetermined extent, and securing said material in said definite expanded condition.

1,924,473
GOLF TEE
William C. Walsh, Omaha, Nebr.
Application September 16, 1930
Serial No. 482,236
1 Claim. (Cl. 273—33)



In a golf tee, the combination with a pin having an enlarged head, a washer on the pin spaced below the head, an annular shoulder rigid with the pin and located above the washer, and a retaining boss on the pin below the washer, of a vertically disposed coil rotatably mounted on the pin and confined between the head and shoulder, the upper end of the coil being in frictional engagement with the under side of the head, a horizontally disposed arm of resilient wire integral with the coil and extending in a plane above the coil, and a ball-supporting loop at the free end of the arm.

1,924,474
APPARATUS FOR INSULATING ELECTRICAL RESISTOR ELEMENTS
Edwin L. Wiegand and Albert P. Wiegand, Pittsburgh, Pa.
Application February 15, 1930. Serial No. 428,666
9 Claims. (Cl. 18—12)

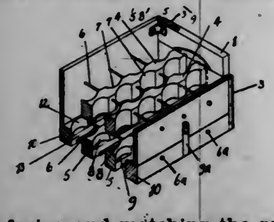


1. An apparatus for insulating electrical resistors comprising a mold adapted to receive a form having a resistor positioned thereon, means for extruding insulating material and cooperating means disposed between said mold and extrusion device for conducting insulating material into said mold for venting the same.

1,924,475
BOTTLE CRATE
Henry Wildberg, Cincinnati, Ohio, assignor to The United Milk Crate Corporation, Cincinnati, Ohio, a corporation of Ohio
Application July 11, 1930. Serial No. 467,224
4 Claims. (Cl. 217—19)

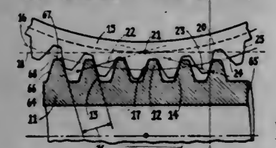
2. In a bottle crate comprising end walls and upper and lower partitions secured between said end walls and having bottle receiving recesses in their sides, the lower partitions also having

bottle supporting ledges at the bottoms of their recesses, side walls with their bottom edges substantially in the transverse plane of the tops of the lower partitions, and bottom runners for the side walls, transversely thicker than said side walls and extending in therefrom and having recesses



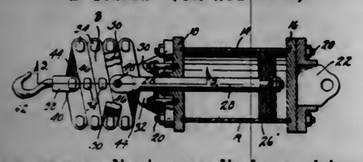
and ledges facing and matching the recesses of the lower partitions, and having end parts reduced to substantially the thickness of said side walls, said end parts and said side walls extending across and being secured to the ends of said end walls.

1,924,476
METHOD OF CUTTING GEARS
Ernest Wildhaber, Brooklyn, N. Y.
Application March 19, 1928. Serial No. 262,876
13 Claims. (Cl. 90—4)



1. The method of generating gears, which consists in providing a hob having two groups of cutting edges suited to finish the two sides respectively of the teeth of a gear blank, said cutting edges being inclined to planes perpendicular to the hob axis at angles larger than four degrees (4°), all the finish cutting edges of one group being disposed on other cutting teeth than the finish cutting edges of the other group of the hob, in providing flutes of different inclination on the two groups to form keen cutting edges, in positioning the hob in engagement with a gear blank, in rotating hob and blank in timed relation, the shape of the hob and its position being such that said hob represents a toothed member rolling on a surface other than the pitch surface of the gear blank, and in providing feeding motion between hob and blank in the direction of the axis of the blank.

1,924,477
POWER APPLICATOR
Fred Wulf, Marshalltown, Iowa
Application May 20, 1929. Serial No. 364,671
1 Claim. (Cl. 254—122)



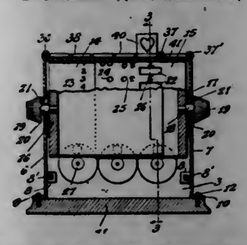
In a power applicator, a cylinder, a piston therein, a piston rod connected with said piston and extending from said cylinder, a lifting hook, a lazy tong linked connection between said hook and said piston comprising half links at the ends of said connection and full links intermediate said half links, said piston rod being connected to said lazy tong linked connection intermediate the ends thereof and additional half link connections between said piston rod and the full links of said linked connection, said piston rod being interposed between said linked connection and said additional half link connections.

1,924,478
HOSE SUPPORTER
Gilbert L. Baker and Algot B. Oberg, Oakland, Calif.
Application March 12, 1932. Serial No. 598,500
3 Claims. (Cl. 24—260)



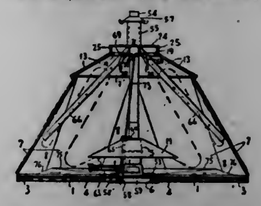
3. A clasp of the class described comprising a body formed of a pair of interfitting sections, one of said sections having a projecting end constituting a stationary jaw, the terminal of said stationary jaw being slightly inturned and having a transversely extending relatively long smooth gripping portion, the other section having a hinged jaw secured near one end thereof, said hinged jaw having an elongated substantially wide and smooth gripping extremity adapted to register with the extremity of said stationary jaw for producing a clamping action, and a sliding clip slidably mounted upon the said stationary jaw and adapted to be moved over said hinged jaw for firmly clamping said hinged jaw upon said stationary jaw, said clip being capable of movement entirely away from said hinged jaw whereby said hinged jaw may be swung to a wide open position relative to said stationary jaw.

1,924,479
SCORE KEEPING DEVICE
John L. Balch, Potlatch, Idaho
Application August 22, 1930. Serial No. 477,117
1 Claim. (Cl. 235—90)



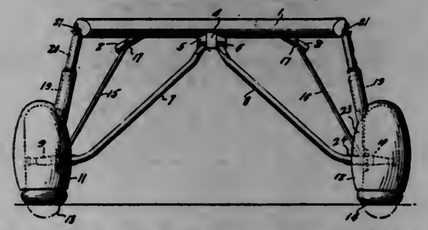
A device of the class described including a casing having front, rear and end walls and a curved top wall, said end walls having detents struck therefrom and said top wall having a sight opening therein, a rotatable cylindrical drum carried within the casing, stub shafts journaled through the ends of the casing and rotatably mounting the drum within said casing, and knobs mounted on the stub shafts and having serrations adapted to selectively receive the detents for limiting the drums in a rotatably set position.

1,924,480
HOUSE FOR BROODING
William D. Bayley, Springfield, Ohio
Application June 17, 1929. Serial No. 371,372
11 Claims. (Cl. 119—21)



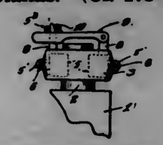
1. In a structure of the character described, a roof of polygonal shape, a series of rectangular side wall sections, one for each of a majority of the sides of the roof polygon and connected therewith, and a series of triangular side wall sections interposed between the said rectangular side wall sections and connected therewith.

1,924,481
LANDING GEAR ASSEMBLY
Giuseppe M. Bellanca, New Castle, Del.
Application February 5, 1932. Serial No. 591,145
3 Claims. (Cl. 244—2)



1. An airplane landing gear of the divided axle type comprising an axle beam mounted within the fuselage, an axle bar hinged at one end to the center portion of said beam and extending diagonally downwardly and forwardly and being formed at its lower portion with a substantially horizontal axle section, a landing wheel mounted upon said axle section the said axle section being positioned forwardly of the point where the axle bar is hinged to the axle beam, a substantially vertical strut extending from the axle section to the axle beam, an oleogear included in said vertical strut and a bracing strut having a universal joint included therein extending from the said axle section rearwardly and attached to a structural part in the rear of the axle beam and placed laterally from the longitudinal axis of the fuselage.

1,924,482
BATTERY TERMINAL CLAMP
George F. Berkshier and Carl H. Schmidgall, Peoria, Ill.
Application August 23, 1930. Serial No. 477,360
6 Claims. (Cl. 173—259)



1. In combination with the terminal post of an electric battery, a clamp including a ring adapted to encircle the post, a jaw at each of two opposite sides of the ring, one of them being pivoted to said ring including an arm, said jaws adapted to engage opposite surfaces of the post, and a member mounted on one of the named elements adapted to engage the named arm and therethrough move both jaws toward each other in clamped engagement with the post.

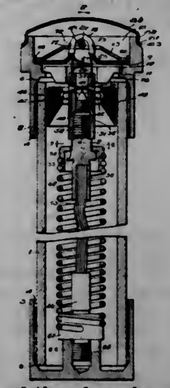
1,924,483
METHOD OF AND MEANS FOR SEPARATING CELLULOSE OR THE LIKE FROM TREATING LIQUID
Walter Claus and Erwin Schmidt, Mannheim-Waldhof, Germany, assignors to Zellstofffabrik Waldhof, Mannheim-Waldhof, Germany, a company of Germany
Application January 21, 1931, Serial No. 510,311, and in Germany March 19, 1930
5 Claims. (Cl. 92—29)



1. A process for treating cellulose, mechanical wood pulp and the like comprising mixing treating fluid with the material and subsequently removing excess liquid by filtration in minute dispersion of the order of that obtainable by passing liquid through a porous diaphragm plate.

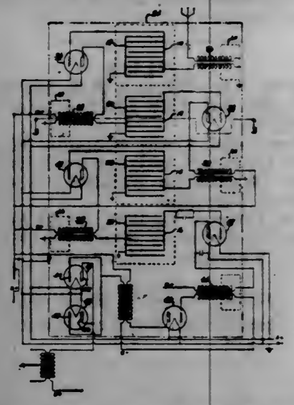
4. Apparatus for treating cellulose, mechanical wood pulp and the like with fluid reagents, comprising a container, a porous diaphragm plate in said container, means for circulating the pulp on one side of said diaphragm and means for admitting and drawing off fluid reagents from the other side of said diaphragm.

1,924,484
FUSE
Nicholas J. Conrad, Winnetka, Ill., assignor, by mesne assignments, to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application March 15, 1930. Serial No. 436,012
35 Claims. (Cl. 200—117)



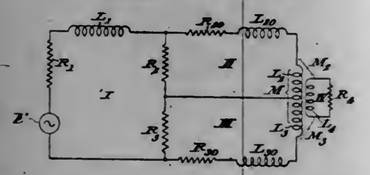
1. In a device of the class described, the combination of a tubular casing, a terminal ferrule on the casing, a movable terminal within the casing, a coiled spring normally under tension and connected with the movable terminal, a fuse connected between the movable terminal and the ferrule and means for anchoring said movable terminal under the tension of said spring, said anchoring means having universal mounting on said ferrule and including a bail member supported at a single point and in turn supporting the movable terminal and the fuse.

1,924,485
RADIORECEIVER
Hal Craig, Hollywood, Calif.
Application July 19, 1930. Serial No. 469,212
9 Claims. (Cl. 250—14)



1. A multi-stage radio receiver including gang condensers arranged in a row, a shield enclosing said gang condensers, and radio frequency transformers of adjacent stages arranged in a staggered relation with respect to and on alternate sides of the shield so as to reduce the undesirable coupling between the transformers thereby reducing undesirable oscillations in the radio receiver.

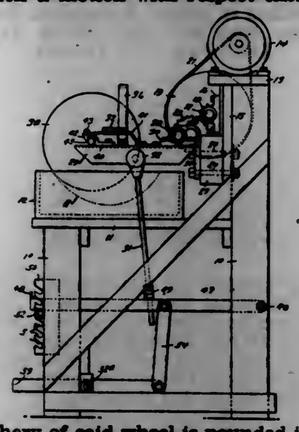
1,924,486
FILTERING ELECTRIC CURRENTS
George B. Crouse, New York, N. Y., assignor, by mesne assignments, to Potter, Pierce & Scheffler, Washington, D. C., a firm consisting of Charles H. Potter, James F. Pierce, and Richard L. Scheffler
Application August 19, 1926. Serial No. 130,252
Renewed November 7, 1932
15 Claims. (Cl. 178—44)



5. An electrical filter for eliminating a periodic ripple from current supplied to a direct current load, comprising two magnetically coupled inductances in series with the load, a shunt path for alternating current across one of said inductances, and a second alternating current path shunted across the second inductance and the load.

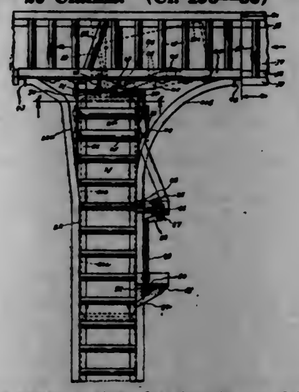
1,924,487
ABRASIVE APPLYING MACHINE
Owen Doutt, Detroit, Mich., assignor to General Spring Bumper Corporation, Detroit, Mich., a corporation of Michigan
Application February 14, 1930. Serial No. 428,309
30 Claims. (Cl. 91—47)

1. A machine for applying abrasive to a grinding wheel, said machine including means for supporting said wheel with respect to a mass of abrasive material, means for holding said abrasive material, and means for giving to said supporting means such a motion with respect thereto that



the periphery of said wheel is pounded into such abrasive material and given a rolling motion.

1,924,488
CONVEYER SYSTEM
Smith Eggleston, St. Paul, Minn., assignor to Standard Conveyor Company, St. Paul, Minn., a corporation of Minnesota
Application December 4, 1930. Serial No. 500,019
20 Claims. (Cl. 198—38)

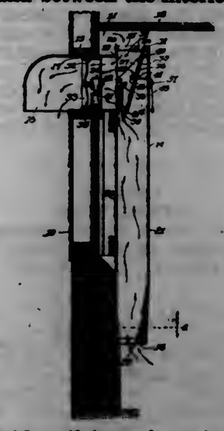


1. A conveyer system having in combination a conveyer, a station laterally adjacent to said conveyer, a carrier movable along said conveyer, a switch associated with said station for diverting carriers thereto from said conveyer, extensible and retractile means on said carrier adapted to engage said switch when extended, an element on the carrier, means under control of said element for extending said switch engaging means and means associated with said station for engaging said element to divert the carrier.

1,924,489
VENTILATING APPARATUS
Robert G. Ferris, Harvard, Ill., assignor to Starline, Inc., Harvard, Ill., a corporation of Illinois
Application February 6, 1932. Serial No. 591,415
17 Claims. (Cl. 98—43)

15. In ventilating apparatus, the combination of a conduit containing an outlet and having a plurality of inlets, unitary damper means for

controlling communication between said inlets and said outlet and between the interior of said con-



duit and said outlet, and a single operating means for said damper means.

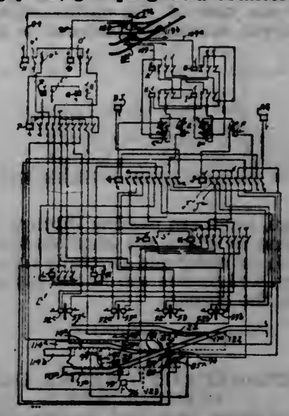
1,924,490
WORK-HOLDER FOR DARNING, MENDING, EMBROIDERING, ETC.
Clara K. Fincho, Kansas City, Kans.
Application May 21, 1930. Serial No. 457,922
8 Claims. (Cl. 45—24)



1. A work-holder for darning or mending operations, comprising a frame providing an open space surrounded by a peripheral channel, and an endless resilient clamping band adapted to seat in said channel, and a plurality of detent elements surrounding said channel and forming outward continuations of the edge thereof which defines said open space, said elements having concave faces for cooperating with said band to clamp the work across said open space and smooth convex exterior faces contacting with the work for permitting the sliding of the goods as the material is tensioned for stretching the same while preventing peripheral shifting movement of the work about said open space.

1,924,491
METHOD AND APPARATUS FOR DIRECTING THE SWITCHING OF RAILWAY CARS AT YARDS AND TERMINALS
Leon M. Gibbs, Birmingham, Ala., assignor to Teleswitch Corporation, a corporation of Alabama
Application April 28, 1930. Serial No. 448,108
33 Claims. (Cl. 104—26)

1. The method of indicating the position and movement of railway cars in switching yards, which consists in causing individual wheel counters to move about tracks in a dummy yard corresponding in track arrangement with the car switching yard, grouping said counters, and as-



sociating with each group identifying data relating to a particular railway car in said yard.

1,924,492
BURLAP BAG
George I. Goldwyn, Chicago, Ill.
Application July 9, 1932. Serial No. 621,596
3 Claims. (Cl. 2—276)



1. A reconditioned burlap bag having a side seam and an end seam including an original line of stitching, the side seam comprising marginal portions folded over and outwardly upon opposite sides of the bag and having edge parts folded back upon the other parts of said portions, the bottom seam including marginal parts both folded back upon the same wall of the bag and the transition between said side seam and bottom seam occurring at the corner connecting said seams and a line of overcast stitching following about said side and bottom seams and including loop stitches that pass about the edges of said seams and bind the same in place a portion of said line of stitching extending along the side seam and continued along a part of the bottom seam.

1,924,493
MEANS FOR OSCILLATING A BABY CARRIAGE
Frank P. Grunkemeyer, Morris, Ind.
Application November 21, 1932
Serial No. 643,789
1 Claim. (Cl. 180—1)

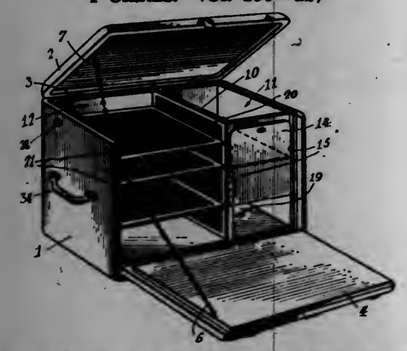
A baby carriage oscillating device comprising a casing, a short track section and a long track section, each section including a pair of side rails for receiving the wheels of the carriage and a pair of cross pieces connecting the ends of the rails together, means for adjustably connecting one side rail to the cross pieces for permitting the width of the sections to be adjusted, hinges fastened to the under sides of the adjacent cross pieces of the two sections to permit the long sec-

tion to be folded under the short section, the other cross piece of the short section being connected to one side of the casing adjacent the bottom thereof, a bracket fastened to a part of



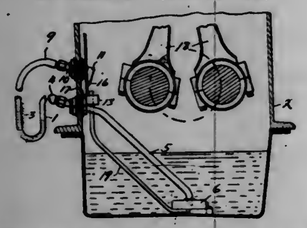
the carriage, a pitman passing through that side of the casing to which the short section is connected, with its outer end pivotally connected to the bracket, and means within the casing for reciprocating the pitman.

1,924,494
REFRIGERATING TRUNK FOR AUTOMOBILES
Urbain Gelinas, Montreal, Quebec, Canada
Application August 26, 1929, Serial No. 388,597, and in Canada August 7, 1929
4 Claims. (Cl. 190—12)



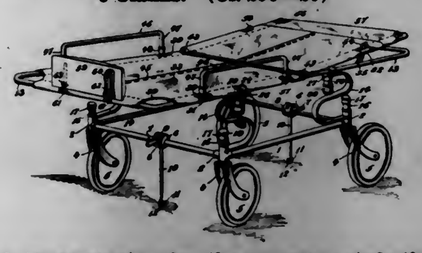
1. A device of the character described comprising a box-like body, a partition dividing the same into two compartments, means for accommodating ice and food in one of said compartments, and a grating at the side of said partition presented to the other compartment.

1,924,495
LIQUID DEPTH INDICATOR
Arthur N. Gustine, Ann Arbor, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan
Application May 28, 1928. Serial No. 281,339
11 Claims. (Cl. 73—54)



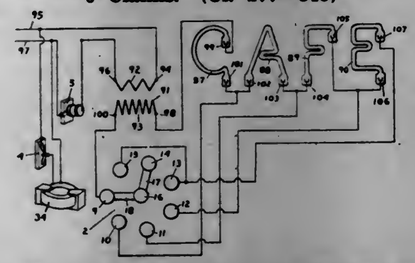
5. A device for indicating the depth of oil in an engine crank case and having a pressure gauge above the normal level of oil in the crank case, a pressure transmitting conduit extending downwardly from said pressure gauge into the oil in the crank case and having an opening in its lower end for placing said conduit in communication with the oil at a pressure transmitting level, and means dependent upon the operation of a movable part of the engine and adapted to catch oil discharged by the movable part for replenishing said pressure transmitting conduit with air constantly during the operation of the engine and during a period subsequent to the operation of the engine.

1,924,496
STRETCHER
Omar L. Herod, Point Marion, Pa.
Application August 17, 1931. Serial No. 557,667
6 Claims. (Cl. 296—20)



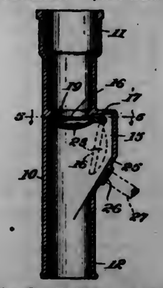
1. In apparatus for the purpose set forth, a carriage, a stretcher frame, saddles receiving the stretcher frame and provided with depending threaded tubes having transverse slots formed therein, clamps attached to the saddles and extending over the stretcher frame to retain the frame in the saddles, resilient supports attached to and rising from the carriage and having their upper ends fitting within the slots of the tubes, and sleeves threaded in said tubes and engaging the resilient supports for clamping said supports on the saddles.

1,924,497
DISCHARGE TUBE DISPLAY
Fred Hotchner, Los Angeles, Calif.
Application October 4, 1928. Serial No. 310,377
6 Claims. (Cl. 177—346)



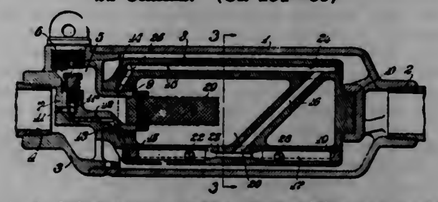
1. In combination: a luminous display device comprising one or more discharge tubes and divided into series-connected sections bounded by electrodes; a transformer providing a low voltage primary winding and a high voltage secondary winding; means for connecting said secondary winding in stages to a different group of said electrodes in each stage thus connecting in circuit with said secondary winding a different group of series-connected sections in each stage with a period of time between the successive connections; and means for deenergizing said primary winding immediately before the start of said period of time and for energizing said primary winding immediately after said period of time.

1,924,498
FLUSH OUT FITTING
Hiram Hammond House, El Paso, Tex.
Application January 6, 1932. Serial No. 585,121
2 Claims. (Cl. 182—22)



1. A vent stack fitting comprising a tubular body having a lateral inlet intermediate its ends and a lateral chambered enlargement below the plane of the inlet, the body being interiorly formed in substantially the plane of the top of the enlargement with a valve seat, a flap valve having a pivotal mounting within and adjacent the top of the enlargement so that it may be swung into engagement with the valve seat or hang wholly within the enlargement out of obstructing position with reference to the bore of the body, the valve being formed with a watertight air chamber to insure its being engaged with the seat by a rising water level in the body, and a high pressure inlet tap in communication with the interior of the body through a wall in the enlargement behind the valve when the latter is in its pendent position.

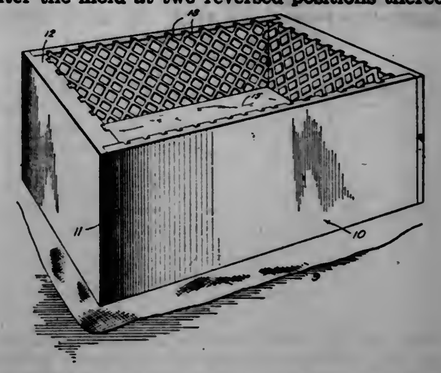
1,924,499
LUBRICATING DEVICE
Mervin C. Huffman, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application December 21, 1929. Serial No. 415,696
21 Claims. (Cl. 184—55)



1. A lubricating device comprising an outer casing having an inlet and outlet, an inner casing disposed therein and having a lubricant chamber, means for effecting a differential pressure on the lubricant contained in said chamber whereby the lubricant may feed to said outlet, and means for filling said inner casing including an angular passageway having a filler opening and terminating in the lubricant chamber of said inner casing and having a screen extending therein to enclose the end of said filling passage, said passage being so formed as to prevent direct access to said strainer through said filler opening.

1,924,500
CHEESE MOLD
Ewald F. Kasten, Watertown, Wis.
Application January 20, 1932. Serial No. 587,773
2 Claims. (Cl. 31—45)

2. A reversible mold for cheese-making having an open top and open bottom and being of greater height than the product to be produced and having diagonal drainage channels throughout the entire inner faces of the mold, said channels intersecting, and a follower of substantially the same dimensions as the mold adapted to telescopically enter the mold at two reversed positions thereof



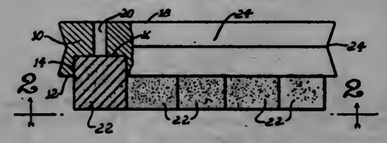
and force the product to occupy a different portion of the inner channeled faces of the mold than it initially occupied, whereby the imprint of the channels initially imparted to the surface of the product will be erased by said different position of the channeled faces and a smooth rind will be produced on the product.

1,924,501
PRINTING
Bernard J. Kelly, Philadelphia, Pa., assignor to Sloane-Blabon Corporation, Philadelphia, Pa., a corporation of Delaware
Application February 1, 1933. Serial No. 654,610
12 Claims. (Cl. 41—26)



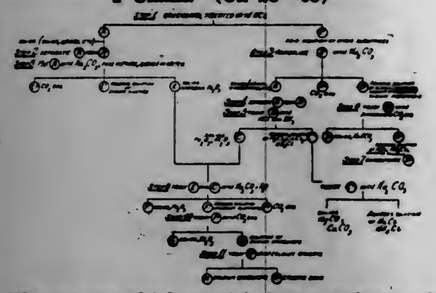
5. The method of printing designs which extend throughout the depth of the printed coating which comprises first printing the detail of said design and thereafter printing the ground color thereover, the ground color having properties so related to those of the detail color that the latter bleeds through the former leaving the detail largely exposed.

1,924,502
ARTICLE HOLDER
Russell M. Kincaid, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application July 27, 1929. Serial No. 381,619
2 Claims. (Cl. 51—205)



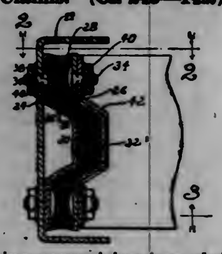
2. A device of the class described comprising a rubber block having a plurality of openings in one face thereof and a plurality of smaller openings in the opposite face thereof extending into the first named openings, and abrasive blocks in said first named openings projecting beyond the face of the block.

1,924,503
TREATMENT OF COMPLEX SOLUTIONS OF SALTS
Arthur Lambert, New York, N. Y., assignor to Cosmic Arts, Inc., New York, N. Y., a corporation of Delaware
Application February 9, 1928. Serial No. 253,042
1 Claim. (Cl. 23—65)



The process which consists in preparing a mineral acid solution containing a substantial amount of at least two salts, one of which is a salt of an alkali metal (sodium or potassium), adding an excess of sodium carbonate to produce a precipitate and an aqueous solution, and treating said solution with aqueous amonia and gaseous carbon dioxide.

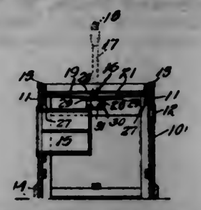
1,924,504
MOTOR MOUNTING
Roger K. Lee, Highland Park, Mich., assignor to Chrysler Corporation, Detroit, Mich, a corporation of Delaware
Application February 24, 1930. Serial No. 430,636
4 Claims. (Cl. 248—14.2)



4. A mounting comprising two plate like members, each of said plate like members having substantially flat opposite end portions in a common plane, an offset central portion connecting the end portions, said members being similarly arranged and in spaced relation and rubber between and vulcanized to the adjacent faces of said members, and means for securing one plate like member to a support and the other plate like member to a part to be supported, the part to be supported exerting a load in a direction transverse to the offset portion.

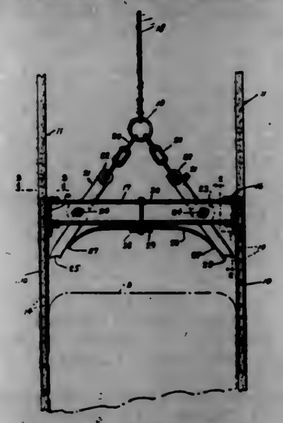
1,924,505
VEGETABLE SPRAY COUNTER
Hubert H. Long, Jackson, Tenn., assignor to Piggly Wiggly Corporation, Cincinnati, Ohio, a corporation of Delaware
Application February 11, 1932. Serial No. 592,383
2 Claims. (Cl. 312—171)

2. A vegetable spray counter comprising a cabinet, side supports secured to the inside and adjacent the top edge of the said cabinet, spaced supporting means extending through the middle of the said cabinet and slightly lower than the side supports, a trough carried by said side supports and said supporting means, a slot in said



trough between said supporting means and a drain trough mounted between said supporting means, substantially as set forth.

1,924,506
SAFETY MECHANISM FOR ELEVATORS
Charles Maier, Racine, Wis.
Application March 28, 1932. Serial No. 603,102
2 Claims. (Cl. 187—82)

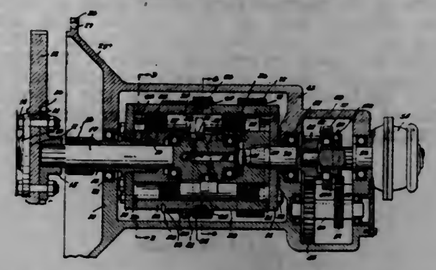


1. In a structural arrangement of the class described, a pair of opposed tooth equipped track rails, a frame embodying spaced parallel hoisting beams, pairs of perpendicular parallel guide runners attached to and depending from the frame and slidably engaged with the track rails, a pair of companion pawls pivotally mounted intermediate their ends adjacent the opposite end portions of said beams, the lower ends of said pawls being arranged to automatically engage the teeth of the rails under emergency conditions, a hoisting cable, a connection between the cable and upper ends of the pawls, and a single spring device supported from the beams and engageable with the lower end portions of the pawls to render the pawls active.

1,924,507
METHOD AND COMPOUND FOR REPELLING INSECTS
Alfred Markowsky, Woodbridge, N. J.
No Drawing. Application October 6, 1927
Serial No. 224,522
1 Claim. (Cl. 167—30)

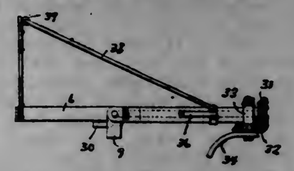
A mixture for the protection of garments from moths and the like consisting of paradichlorbenzene and paranitrochlorbenzene, the said substances being proportioned one to the other whereby the mixture contains at least 20% of paranitrochlorbenzene will not soften sufficiently to smear garments at degrees of excessive summer heat up to 100° F.

1,924,508
VARIABLE SPEED TRANSMISSION MECHANISM
John J. McCarthy, Malden, Mass.
Application October 21, 1930, Serial No. 492,512
Renewed January 17, 1933
9 Claims. (Cl. 192—59)



1. In a device of the kind described, the combination of a driving element, a plurality of double ended pistons connected thereto, a driven element, an intermediate driven and driving element interposed between the driving and the driven elements, a plurality of pairs of opposed cylinders in said intermediate element, one of said pistons engaging each pair of opposed cylinders, a fluid reservoir for each pair of opposed cylinders, a rotatable sleeve in each of said reservoirs, each of said sleeves having a port at each end thereof adapted to communicate with said cylinders, and means to normally maintain said ports in open position.

1,924,509
CORN PLANTER ATTACHMENT
Lowell A. McGlinch, Versailles, Ohio
Application July 29, 1932. Serial No. 626,142
2 Claims. (Cl. 111—33)



1. In a planter, an operating shaft, a second shaft pivotally mounted to said operating shaft, and actuated thereby, a pinion connected to the free end of said second shaft, a vertically disposed pivotally mounted shaft adjacent the free end of said second shaft and having a laterally extending arcuate shaped marker secured thereto, a gear secured to said vertical shaft and driven by said pinion gear, means for adjusting said second shaft with respect to the operating shaft, and means for actuating said operating shaft.

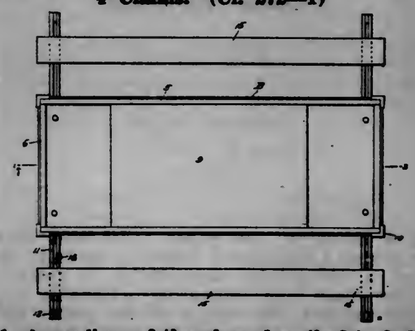
1,924,510
YARN-SUPPORT OR COP-TUBE
Edward F. Parks, Providence, R. I., assignor to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application March 11, 1931. Serial No. 521,838
5 Claims. (Cl. 242—125)

1. A support for packages of yarn or the like comprising a substantially hollow core provided with a recess in its end, a slit extending across the end of the core outwardly beyond the marginal edge of the recess to adapt it to receive the end of the yarn wound on the core, and a finger-depression extending from the rim of the recess



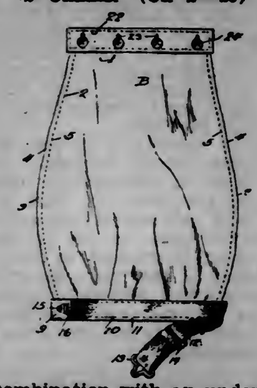
across the slit and of greater depth than the latter.

1,924,511
SAND BOX
Gustav E. Peterson, Astoria, Oreg.
Application October 3, 1932. Serial No. 636,050
4 Claims. (Cl. 272—1)



1. A sandbox of the class described including a box like structure formed from four walls, bottom sections fixed to the walls to terminate in spaced relation to each other, risers on the inner portion of the bottom sections, and a platform across the risers.

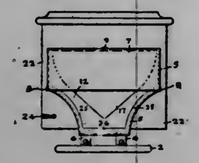
1,924,512
TROUSERS PROTECTOR
Dominick Parreca, Atlanta, Ga.
Application October 31, 1931. Serial No. 572,402
2 Claims. (Cl. 2—46)



1. The combination with an undergarment of a knee shield for the protection of trousers adapted to engage the leg and knee of the wearer comprising a body portion formed wider at a point intermediate its length than at its ends and gathered at its lower edge to form a cap-like formation at said widest point to permit freedom of knee action, an elastic band connected to said body at its lower edge, one end extending beyond said body portion adapted to removably

encircle the leg, an anchor strip folded to form overlapping flaps attached at the line of fold to said garment at a point spaced from its lower edge to form a flap adapted to overlie one of said first mentioned flaps, and means for detachably connecting the upper end of said body portion with the intermediate flap, whereby the connecting means is concealed by the remaining flaps and catching of the foot on said shield is prevented.

1,924,513
SANITARY TOILET SEAT PACK AND CONTAINER
William V. Rea and Pamela F. Rea, Calumet City, Ill.
Application May 25, 1931. Serial No. 539,752
5 Claims. (Cl. 4—244)



5. A container for paper toilet seat covers comprising a continuous casing, a partially open front, a rectangular top portion, a relatively narrow base and outwardly extending sides which support the weight of the paper pack, and means for retaining the pack within the container.

1,924,514
PHENOLIC CONDENSATION PRODUCT AND PROCESS OF PRODUCING SAME
Lawrence V. Redman and Archie J. Weith, Caldwell, N. J., and Frank P. Brock, Hinsdale, Ill., assignors to Bakelite Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application July 14, 1927
Serial No. 205,837
4 Claims. (Cl. 260—4)

1. In a process of making a potentially reactive molding mixture, the step comprising effecting a reaction between a non-reactive phenol resin and an inorganic base under substantially anhydrous conditions, the base in sufficient amount to neutralize a substantial proportion of the hydroxyl of the resin.

3. Process of making a potentially reactive molding mixture which comprises effecting a reaction between a non-reactive phenol resin and an inorganic base, the base in amount equivalent to a substantial proportion of the hydroxyl of the resin, in the presence of an amount of water insufficient to dissolve a substantial amount of the resin under the conditions of the reaction and compounding therewith a filling material and a hardening agent capable of imparting to the mixture a potentially reactive character.

1,924,515
BUILDING WALL CONSTRUCTION
Floyd Charles Reinke, Detroit, Mich., assignor to Air-O-Cel, Inc., Detroit, Mich., a corporation of Michigan
Application April 8, 1931. Serial No. 528,657
7 Claims. (Cl. 20—4)

1. In a building wall construction, the combination with studs or joists having the inner portion of the wall secured to their inner edges, of a lining of flexible heat insulating material spaced from and arranged at the outer side of the inner portion of the wall and made up of sections laid end to end between the studs or joists, the side edge portions of the sections being bent at right angles to form side flanges secured to the opposed faces of the studs or joists, the adjacent ends of the sections being also bent at right angles to form end flanges which bridge the space between the bodies of the lining sections and the inner portions of the wall to form enclosed separate pockets, the adjacent ends of the side and end flanges terminating in abutting relation, and horizontal air stop

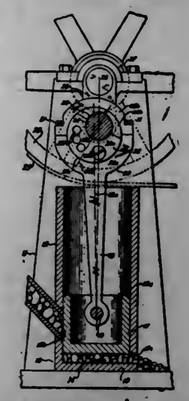


sheets of flexible heat insulating material having their inner portions secured between the end flanges of adjacent lining sections and their outer portions spanning the space between the studs or joists and between the lining and the outer portion of the wall, and side flanges on the air stops bent at right angles and passed between the abutting ends of the flanges of adjacent lining sections, said flaps being secured to the studs or joists, and staples passing through the end flanges of adjacent lining sections and the inner portion of the adjacent air stops for securing them together.

1,924,516
MEANS FOR CONVERTING MOTION AND THE LIKE
Rowland W. Rider, Salt Lake City, Utah, assignor to Utah Royalty Corporation, Salt Lake City, Utah, a corporation of Utah
Continuation of application Serial No. 316,973, May 29, 1929. This application July 8, 1930. Serial No. 466,599
3 Claims. (Cl. 74—38)

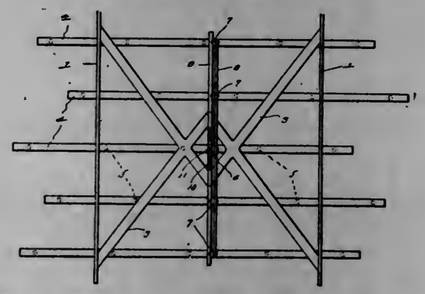
1. Means for connecting a rotary member having a wrist pin thereon with a reciprocating member, the connecting means including an eccentric freely rotatable on the wrist pin of the rotary member, a member enclosing the eccentric and connected to the reciprocating member, the eccentric and enclosing member being adapted to rotate relative to each other, and positioning means between the eccentric and enclosing member comprising a mass on the eccentric adapted to maintain them normally in such positions relative to each other that a line drawn

through the centre of the eccentric and the centre of the wrist pin will be in a predeter-



mined angular relation to the centre line of the reciprocating member.

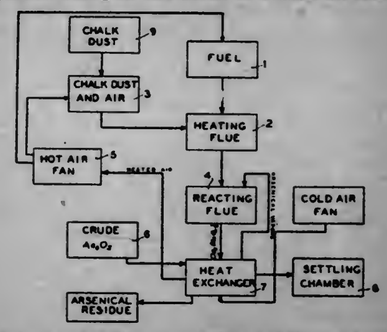
1,924,517
HARROW
Edward W. Ruffner, Mason, Ill., assignor of one-half to George I. Danks, Edgewood, Ill.
Application April 21, 1932. Serial No. 606,698
1 Claim. (Cl. 55—103)



A harrow comprising spaced, parallel, longitudinal outer beams having openings in their end portions for connecting a hitch thereto, a comparatively short beam mounted intermediate the outer beams, staggered tooth bars journaled for rocking movement in the beams, teeth mounted in the tooth bars, a hand lever fixed on an intermediate bar and rising therefrom, arms fixed on the other tooth bars and rising therefrom, a bar pivotally connected to the arms and to the lever for connecting the tooth bars together for movement in unison, a notch segment mounted on the intermediate beam, a latch on the lever operatively engageable with the segment for securing the lever in adjusted position, and integral, relatively reversely disposed, substantially V-shaped braces extending between the beams.

1,924,518
METHOD OF PRODUCING INSECTICIDES
Eugene R. Rushton, Montgomery, Ala.
Application August 18, 1930. Serial No. 476,173
15 Claims. (Cl. 23—53)

1. The process of producing insecticides which comprises reacting arsenical vapors and an oxygenated compound of the group consisting of calcium, barium, magnesium, and lead, the said compound being in the form of a dust stream.

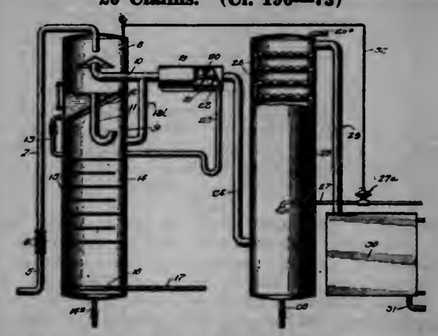


15. A process for preparing calcium arsenate which comprises reacting arsenical vapors and calcium carbonate in the form of a dust stream at temperatures between 800° C. and 1000° C., in the presence of excess oxygen.

1,924,519
TREATMENT OF MINERALS
Eugene P. Schoch, Austin, Tex.
No Drawing. Application September 3, 1930
Serial No. 479,581
6 Claims. (Cl. 23—38)

1. The method of treating polyhalite for the removal of sodium chloride which comprises leaching the ore with a concentrated solution of magnesium sulphate.

1,924,520
DISTILLING PRESSURE CONVERTED PRODUCTS BY CONTAINED HEAT
Edward J. Shaeffer, George W. Watts, and Eugene P. Brown, Whiting, Ind., and Robert E. Wilson, Chicago, Ill., assignors to Standard Oil Company, Whiting, Ind., a corporation of Indiana
Application April 10, 1926. Serial No. 101,103
20 Claims. (Cl. 196—73)



1. The method of distilling hot products derived from a pressure conversion system by contained heat which comprises discharging such products into a chamber in which a pressure below that of the conversion system is maintained, thereby vaporizing substantial portions of such conversion products, removing the vaporized portions thereof, maintaining a reservoir of unvaporized liquid in said chamber, discharging from a point below the level of said liquid separated unvaporized liquid at a regulated rate of flow into a second chamber, contacting it with an

inert gaseous material in said second chamber, thereby removing lighter constituents therefrom, and separately conducting excess liquid from above the normal liquid level in the first mentioned chamber into the second chamber.

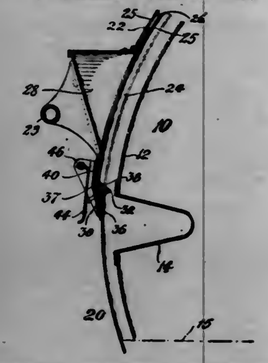
3. In apparatus for the distillation of hot hydrocarbon oils by contained heat, a tower, a partition providing a compartment in the upper portion of said tower, a conduit for hot oil leading into said compartment, means for retaining a body of unvaporized oil therein, baffle plates in said tower below said partition, means for supplying an inert gaseous medium below said baffle plates, means for supplying unvaporized oil from the upper compartment in said tower to a point in said tower below the partition, and means for sealing the upper compartment against ingress of vapors from below said partition.

1,924,521

WASHING MACHINE CYLINDER

Frank H. Smith, Summit, N. J., assignor to Elevator Supplies Company, Incorporated, Hoboken, N. J., a corporation of New Jersey

Application March 24, 1932. Serial No. 600,859
2 Claims. (Cl. 68—18)



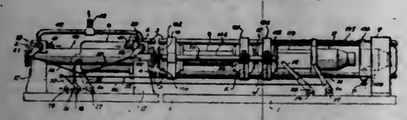
1. A washing machine comprising a rotary basket and a cylinder enveloping the same adapted to contain a washing solution, said cylinder having an opening in its arcuate portion above the solution level, a door adapted to close said opening, a ledge along the bottom of said opening and a fixed projection in the cylinder adjacent the bottom of said opening of less length than the distance between the cylinder and basket having an inclined surface to deflect inwardly streams of solution entrained by the rotation of the basket.

1,924,522

METHOD OF AND APPARATUS FOR EXTRUDING TUBULAR METAL SHAPES

Stanley W. Sparks, Norwalk, Conn., assignor to Charles H. Bickell, trustee, representing the Metals Research Syndicate, New York, N. Y.

Application October 4, 1930, Serial No. 486,420
Renewed July 15, 1932
15 Claims. (Cl. 207—3)



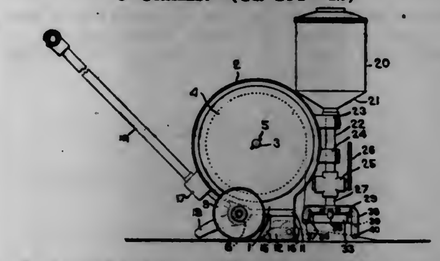
1. A unitary apparatus for the extrusion of tubular shapes, comprising an extrusion ram element, means for applying predetermined graduated high pressures thereto, a die having a terminal orifice at one end to receive the ram and an extrusion orifice at the other end, said die having associated therewith a blank-receiving magazine, the latter having a lateral charging aperture for the introduction of a blank into such magazine, said magazine having aligned orifices at its respective ends adapted to register with the aforesaid orifices in such die, means for limiting the forward movement of such ram during the extrusion operation, a retractible, rotatable arbor adapted to be projected into the extrusion orifice of the die during the extrusion operation, means for rotating said arbor, means for advancing and retracting the latter into and away from said extrusion orifice and means for causing said extrusion ram to advance beyond the forward limits to which the same has been projected during the extrusion operation in order to eject the nubbin from the die.

1,924,523

MACHINE FOR UNITING STRIPS OF FLOOR COVERING, OR THE LIKE, TO PRESENT A SEAMLESS UPPER SURFACE

Walter M. Spring, Springvale, Maine, assignor to Sanford Mills, Sanford, Maine., a corporation of Maine

Application October 15, 1932. Serial No. 638,036
9 Claims. (Cl. 154—42)



2. A machine for uniting strips of floor covering or the like, lying on a flat supporting surface with adjacent edges in abutment, comprising a portable carriage having means operable when the carriage is moved along said edges progressively to raise adjacent edge portions of the strips temporarily, means for progressively delivering a binding tape having an adhesive coated upper surface beneath the upraised edges of said strips and a pointer on said carriage extending into proximity to said floor covering operable when superposed over said abutting edges to provide a visible guide enabling the operator to move the carriage properly along said edges.

1,924,524

PROCESS OF TREATING TUNG OIL

William B. Stoddard, Stamford, Conn., Theodore H. Geiger, New York, N. Y., and Lothian M. Burgess, Shrewsbury, Mass., assignors, by mesne assignments, to Tung Oil Products, Inc., a corporation of New Jersey

No Drawing. Application March 10, 1931
Serial No. 521,516
5 Claims. (Cl. 87—12)

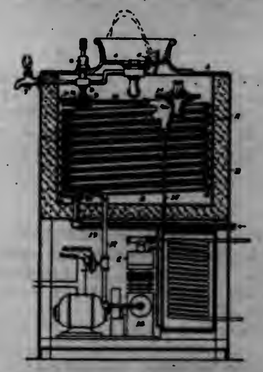
1. A process of treating tung oil which comprises heating said oil in the absence of reaction retarding diluents and of compounds that combine with said oil with a small quantity of zinc chloride and with a peroxide until the body of said tung oil has increased, and terminating said treatment before the oil has coagulated or solidified.

1,924,525

METHOD OF COOLING LIQUIDS

Halsey W. Taylor, Warren, and James T. Smith, Cleveland, Ohio; said Smith assignor to The Halsey W. Taylor Company, Warren, Ohio, a corporation of Ohio

Original application June 30, 1927, Serial No. 202,553. Divided and this application October 1, 1928. Serial No. 309,592
1 Claim. (Cl. 62—116)



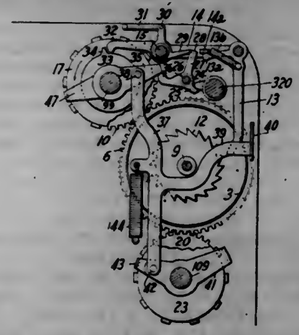
A method of cooling a liquid under draft, consisting in forming a tubular stream of liquid and subdividing said tubular stream into separate individual streams and co-incidently passing a refrigerating fluid centrally through said tubular stream and in establishing heat exchange relations with each stream intermediate the respective streams of liquid.

1,924,526

CAPACITY INCREASING MEANS FOR COUNTING WHEELS

Bruce H. Tingley, Dayton, Ohio, assignor to Ohmer Fare Register Company, Dayton, Ohio

Application September 9, 1927. Serial No. 218,457
9 Claims. (Cl. 235—30)



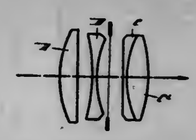
1. In a machine, a group of counting wheels, a cam operatively connected to the wheel of the highest order, a lever actuated by said cam, a bell crank lever normally held against movement by said first mentioned lever, a plate provided with a numeral, said second mentioned lever normally holding said plate against movement, said cam rocking said first mentioned lever and releasing it from said second mentioned lever when the wheel of highest order is rotated beyond a certain point and means operative to actuate said plate when said first lever releases said second lever.

1,924,527

UNSYMMETRICAL OBJECTIVE LENS SYSTEM

Albrecht Wilhelm Tronnier, Kreuznach, Germany

Application July 3, 1930, Serial No. 465,576, and in Germany August 1, 1929
5 Claims. (Cl. 88—57)



1. An unsymmetrical object lens system, comprising, in combination, and enumerated with respect to the direction of the rays of light, a plano-convex lens (A), a biconcave lens (B) separated from said plano-convex lens by a dispersing air-space (1^2), and a compound lens (C^1 C^2) separated from said biconcave lens by an air-space (1^4 1^5) and comprising a concave lens (C^1) and a biconvex lens (C^2), in which lens system, firstly, the first two lenses (A and B) are so designed that they exert together a dispersing effect of such a strength that their collecting effect, if any, is practically zero; secondly, the reciprocal value of the focal distance of the second lens (B) is the opposite of that of the first lens (A) and its exponent of refraction—with reference to the yellow ray—is smaller than 1.56; thirdly, the compound lens members (C^1 C^2) have outer surfaces with different curvatures and the radius of curvature of their united surfaces (R^5 R^7) is longer than 80% of the effective opening diameter of the objective and these members are so designed as to have together a strongly collecting effect; fourthly, the sum of the absolute lengths of the radii of curvature of those surfaces (R^1 R^3) of the first two lenses (A and B) which are directed towards the object, together with the absolute length of that surface (R^7) of the compound lens (C^1 C^2) which is directed towards the image is greater than 80% of the total focal length of the objective; fifthly, the difference between the refraction numbers of the first lens (A) and of the last lens (C^2) is greater than 25% of the difference between the exponents of refraction of the united outer surfaces (R^5 R^7) of the compound lens members (C^1 C^2); and sixthly, the difference between the exponents of refraction of the second lens (B) and of the adjacent member (C^1) of the compound lens is smaller than the difference between the exponent of refraction of the united surfaces (R^6) of the compound lens members (C^1 C^2).

1,924,528

METHOD OF WELDING METALS

Romaine G. Waltenberg, Roselle, N. J., assignor to The H. A. Wilson Company, Newark, N. J., a corporation of New Jersey

No Drawing. Application March 13, 1931
Serial No. 522,525
17 Claims. (Cl. 78—92)

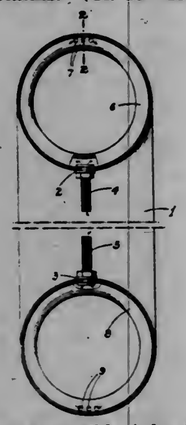
10. A method of welding together plates of metals having melting points which are similar and which are lowered by the addition of carbon to said metals which comprises holding the plates in face contact, heating the plates to a temperature below the melting points of said metals, and, during the heating, increasing the carbon content in the contacting surfaces of the plates.

1,924,529
RECEPTACLE
Charles P. Wellman, West Medford, Mass.
Application April 25, 1930. Serial No. 447,262
3 Claims. (Cl. 229—37)



2. A receptacle having an end closure which includes extensions of two opposite walls of the receptacle folded across the end of the receptacle and each folded on two diagonal fold lines, a free edge portion of each of said diagonally folded extensions forming a butt joint with another free edge portion of the same diagonally folded extension, other free edge portions of substantial length of the two diagonally folded extensions lying closely adjacent along the middle of the end of the receptacle.

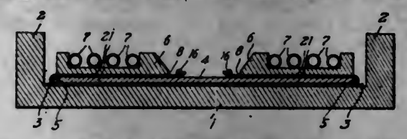
1,924,530
PRESSURE BAG FOR TIRE MOLDS
Herbert J. Woock, Lodi, Calif., assignor to Super Mold Corporation, Lodi, Calif.
Application June 30, 1931. Serial No. 547,815
6 Claims. (Cl. 18—45)



2. An annular expansible tube for the reception of a fluid vulcanizing medium, and being adapted to rest in a predetermined position when in use and being provided with an inlet and an outlet in its periphery, a flexible passage member in communication with the inlet and having an outlet at the highest point within the tube when the latter is in its predetermined position of use.

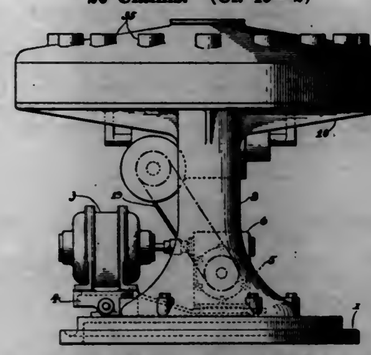
1,924,531
METHOD OF MAKING HATS
Victor P. Writer, New York, N. Y.
Original application January 4, 1930, Serial No. 418,461. Divided and this application November 19, 1930. Serial No. 496,584
3 Claims. (Cl. 223—31)

1. The steps in the method of manufacturing hats which comprise attaching a drawstring near the periphery of a blank of hat-forming material, drawing the periphery of said blank by means of said drawstring radially inward over the upper face of a forming element a substantial portion of whose upper face adjacent its edge lies in a plane parallel to the plane of its under face, moistening said material, compressing the material



upon the parallel faces of said forming element between heated dies for a sufficient length of time to cause the material to set to the desired shape and trimming away waste material containing said drawstring to form a head-opening in said hat.

1,924,532
MACHINE FOR SEALING
Raymond M. Zimber, Bloomfield, and Louis A. Hawthorne, Newark, N. J., assignors to Deforest Radio Company, Jersey City, N. J., a corporation of Delaware
Application September 12, 1929
Serial No. 392,136
20 Claims. (Cl. 49—2)

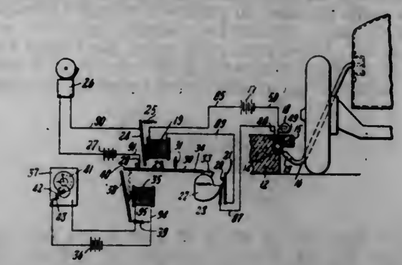


1. In a lamp sealing machine, a fixed platform, a movable platform, a plurality of devices mounted for individual rotation in said movable platform, a reciprocable support rod in each of said devices, a pivoted lever for raising and lowering each rod at predetermined points in the movement of said movable platform, and a guide track for retaining said rods in raised position.

1,924,533
AUTOMOBILE PARKING METER WITH THIEF ALARM
Roger W. Babson, Wellesley, Mass.
Application August 22, 1929. Serial No. 387,756
13 Claims. (Cl. 177—311)

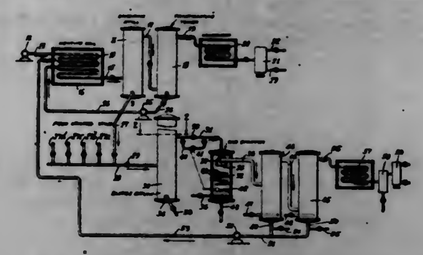
1. The combination with an automobile, of a socket external to the automobile including separate electrical contacts in a fixed location, a circuit closer in armored mechanical connection with the automobile adapted to be inserted detachably between said contacts for completing the circuit therewith, a key operated switch and a source of electric current, fixed in location relatively to the automobile, in circuit with said contacts, a signal in the same circuit arranged to give an indication while said switch is closed and said closer is in the socket, an electro magnet in the same circuit, a separate theft alarm circuit, and a switch for the theft alarm and

circuit therefor operated by said magnet to open the theft alarm circuit when the magnet is active



and to close the latter circuit when the magnet is made inactive by removal of the circuit closer.

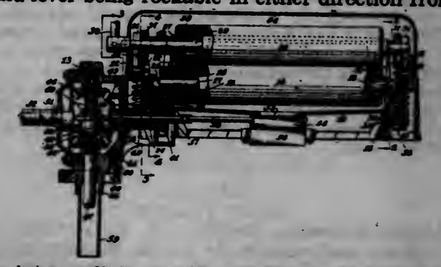
1,924,534
TREATING HYDROCARBON OILS
Addison S. Bailey, Houston, Tex., and Edward M. Reynolds, Tulsa, Okla., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application February 12, 1929. Serial No. 339,300
13 Claims. (Cl. 196—49)



1. In a process of distillation in a reduced pressure distilling zone of the hot residue taken from a superatmospheric pressure conversion zone, the process that comprises first introducing the residue into a surge chamber interposed between the superatmospheric pressure conversion zone and the reduced pressure distilling zone, maintaining said chamber at a range of pressures materially below said conversion zone pressure without distilling off a distillate from said chamber, distilling the hot residue under the reduced pressure, not materially affected by variations that may occur in the discharge of material from said conversion zone, in the distilling zone by means of its own contained heat, separating the oil charged into said reduced pressure distilling zone into fractions comprising a fuel oil, a plurality of gas oils, and a naphtha, and returning one of said gas oil fractions to the pressure conversion zone.

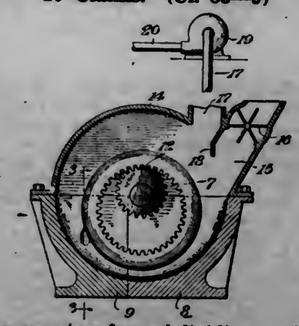
1,924,535
WRINGER
Thomas W. Behan, Binghamton, N. Y., assignor to Nineteen Hundred Corporation, Binghamton, N. Y., a corporation of New York
Application February 25, 1932. Serial No. 594,977
5 Claims. (Cl. 68—32)

1. In a wringer a frame, a pair of rollers mounted in said frame, a shaft supporting one of said rollers, tensioning means carried by said frame, cams secured to said shaft and adapted to engage said tensioning means to connect the latter with said shaft, and a lever for operating said cams, said lever being rockable in either direction from



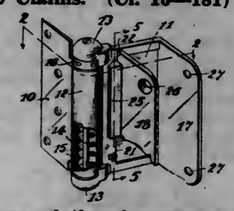
an intermediate position to effect release of said tensioning means from said shaft.

1,924,536
APPARATUS FOR SUBDIVIDING MATERIAL
Joseph K. Blum, Scarsdale, N. Y.
Application April 8, 1927. Serial No. 181,936
10 Claims. (Cl. 83—9)



1. In apparatus for subdividing material, the combination of two relatively movable members having surfaces diverging from each other in all directions from a common point, and means to rotate and reciprocate one of said members with respect to the other.

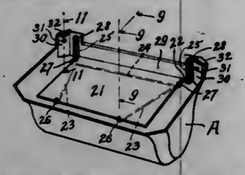
1,924,537
SPRING HINGE AND ADJUSTABLE LEAF
Emil Bommer, Brooklyn, N. Y.
Application April 28, 1932. Serial No. 607,928
5 Claims. (Cl. 16—181)



1. In a hinge of the character described, the combination of a leaf web having a laterally projecting flange, a second flange disposed laterally of the web in opposition to the first flange and having an extension adjacent the web extending laterally from the flange and substantially parallel with the web, a pair of lateral projections on the face of the web, longitudinal guide walls on said extension defining a pair of open longitudinal recesses open to the face of the web and in which the projections are received, said guide walls and recesses extending transversely of the plane of the flange thereof and being in such

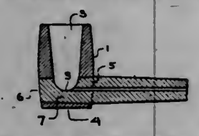
direction of greater extent than the projection to permit adjustment of the flange upon the projections in a direction toward and away from the first flange, and the members of said pairs of projections with their cooperating recesses being inclined from the perpendicular with respect to the face of the web and in opposite directions with respect to each other to prevent separation of the second flange when moved in a direction laterally of the web.

1,924,538
LIGHT FILTER
August Bostroem, Brooklyn, N. Y., assignor, by mesne assignments, to Faries Manufacturing Company, Decatur, Ill., a corporation of Illinois
Application March 6, 1931. Serial No. 520,733
5 Claims. (Cl. 240—73)



2. In a lamp, a source of light, a reflector, a light screen, a clamping member comprising a main member having a recessed middle portion and angularly disposed end portions, said end portions carrying adjustable clamps, a frame adjustably carried by said main member and having hook-shaped end portions, and a light filter supported by said hooks and retained thereby, said frame being so dimensioned and disposed relatively to said recess that in certain positions of adjustment the light filter may be disengaged from the frame by sliding same laterally through the recess in the main member.

1,924,539
SMOKING PIPE
Stanley Brown, Garden City, N. Y.
Application November 2, 1929. Serial No. 404,293
5 Claims. (Cl. 131—12)



1. A smoking pipe comprising a bowl having two transversely alined openings in the wall thereof and an opening in its bottom, and a stem passing through said transverse openings and forming a closure for said bowl to all said openings, and having a smoke hole communicating with the bowl.

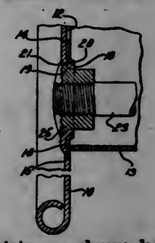
1,924,540
THERMOSTAT
Robert Burkle, North Bergen, N. J., assignor of one-half to Richard Merrifield, New York, N. Y.
Application March 14, 1933. Serial No. 660,620
10 Claims. (Cl. 200—138)

1. A thermostat for an automatic dish washing and drying machine or the like, comprising a tubular body with a reduced front end and opened at the rear end for mounting upon a water or the like pipe line in a manner so that fluid may enter, a temperature conductive tubular member with a closed rear end and mounted at the front through said reduced end and extending towards the rear of said tubular body so as to be surrounded by said fluid, a bimetal strip and a plain strip parallel to each other and extending through said conductive tubular member and supported at the rear ends upon the closed rear end of said conductive tubular member, a contact mounted on an insulated terminal mounted



on the free end of each of said strips for connection in an electric circuit to control the circuit according to certain temperature effects upon the bimetal strip, a finger attached upon the free end of said plain strip, and a cam rotatively supported in a manner so that its periphery acts against the finger to hold away the plain strip flexed so that the said terminals are separated according to predetermined amounts.

1,924,541
REEL
Ralph W. Clemmons, Chicago, Ill., assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 30, 1930. Serial No. 492,182
1 Claim. (Cl. 242—77)

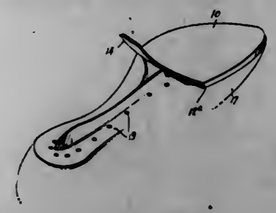


A reel comprising a drum having a flange at each end thereof provided with an apertured embossed portion, a head engaging each flange of the drum and provided with a corresponding apertured embossed portion, the embossed portions of the flanges and the associated heads being constructed so that one extends within the other and closely engages the inner wall of the aperture thereof, and connecting members extending through the apertured embossed portions of both heads and having means at both ends thereof countersunk within said embossed portions for securing the heads to the flanges of the drum.

1,924,542
SHOE AND METHOD OF MAKING SAME
Vincent De Liso, Astoria, Long Island, N. Y., assignor to Palter-De Liso Inc., New York, N. Y., a corporation of New York
Application April 21, 1932. Serial No. 606,645
9 Claims. (Cl. 12—142)

1. In the manufacture of shoes, the steps which comprise splitting the heel portion of a sole to provide a relatively thin lower section and a relatively thick upper section, channelling the forward portion of the sole, stitching such forward portion to a shoe upper, and cementing the two heel sections to such upper.

7. A shoe comprising an upper, a heel, and a sole which is split along the heel portion thereof to substantially the ball region, the heel portion being thus divided into a lower section and an upper section, the upper being sewn to the sole portion of such sole and the upper section of said heel portion

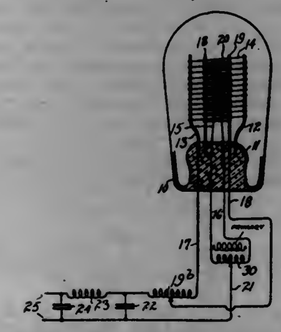


being cemented to the upper, and the lower of said heel sections providing a breast cover for the heel.

1,924,543
FILAMENT
Allen B. Du Mont, Bloomfield, N. J., assignor to De Forest Radio Company, Jersey City, N. J., a corporation of Delaware
No Drawing. Application November 26, 1928
Serial No. 321,844
1 Claim. (Cl. 250—27.5)

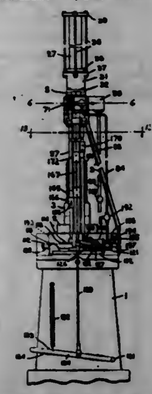
A filament for electron discharge devices comprising a metal alloy consisting of approximately 15% chromium, iron 20%, and approximately 65% nickel, whereby the filament may be effectively operated as an emitter at a dull red heat, and a coating of electron emissive material on said filament.

1,924,544
RECTIFIER DEVICE
Allen B. Du Mont, Bloomfield, N. J., assignor to De Forest Radio Company, Jersey City, N. J., a corporation of Delaware
Application November 26, 1928
Serial No. 321,845
6 Claims. (Cl. 175—363)



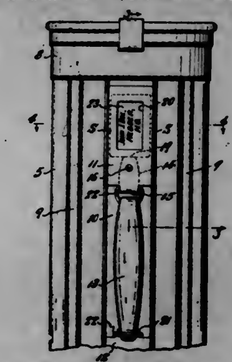
1. In a combination as described, an evacuated vessel, an electron emitting cathode supported within said vessel, two concentric helically wound anodes within said vessel adjacent said cathode to receive electrons emitted therefrom, a source of energy connected to said cathode, means for impressing potentials of different value on said electrodes so that the outer electrode is always at a higher potential when the device is conducting, and circuit connections between said cathode and said electrodes including a filter to provide the output circuit thereof.

1,924,545
DROP HAMMER
William H. J. Fitzgerald and Reginald P. Fitzgerald, Braintree, Mass., assignors to Pneumatic Drop Hammer Company, Boston, Mass., a corporation of Massachusetts
Application November 22, 1928
Serial No. 321,225
28 Claims. (Cl. 121—30)



1. A drop hammer comprising a vertically reciprocable hammer, a cylinder having a piston connected to said hammer, a conduit communicating with said cylinder and having an exhaust port, means for supplying fluid under pressure to said conduit, an operating valve in said conduit selectively operable to supply fluid under pressure to said cylinder to raise said hammer or to exhaust said fluid therefrom to permit the hammer to drop, means operable only by the pressure of the fluid supplied to said cylinder when the hammer is maintained in raised position to actuate said operating valve to exhaust position, and means for controlling the supply of fluid under pressure to said valve-actuating means.

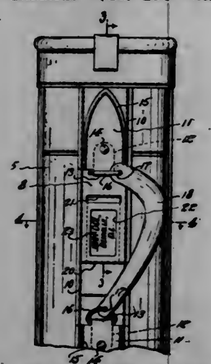
1,924,546
GOLF BAG
Emile Garfinkel, Newark, N. J.
Application October 24, 1931. Serial No. 570,785
2 Claims. (Cl. 150—1.5)



1. In a golf bag, a carrying handle structure provided with anchor plates secured to said body and a hand grip connected with and extending therebetween, one of said anchor plates comprising a body stitched to said bag body along its longitudinal marginal edge portions so as to form an underlying pocket open at the outer end there-

of for insertion of a name card, said latter anchor plate having a tongue of reduced width doubled upon itself to provide a hand grip coupling loop, the free end of said tongue being secured beneath said anchor plate so as to provide a stop to limit the inner end of said pocket, and said anchor plate having in its body a display opening to expose the inserted card.

1,924,547
GOLF BAG
Emile Garfinkel, Newark, N. J.
Application October 24, 1931. Serial No. 570,786
2 Claims. (Cl. 150—1.5)



1. In a golf bag, a carrying handle structure comprising a reenforcing base plate secured longitudinally to the bag body along its longitudinal margins, said base plate having a receiving pocket space underlying its body intermediate its longitudinal margins and a transverse access slot leading thereinto, said base plate having a display aperture to expose a name card inserted within said pocket, a hand grip, and means beyond the limits of said pocket for connecting the ends of said hand grip to said base plate.

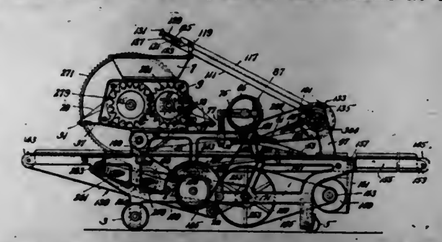
1,924,548
CONSTRUCTION MATERIAL
Cedric Gibbons, Santa Monica, and Ernest H. Tate, Los Angeles, Calif., assignors to Metro-Goldwyn-Mayer Corporation, Culver City, Calif., a corporation of New York
Application July 29, 1929. Serial No. 382,010
2 Claims. (Cl. 154—44)



1. A construction material for scene construction having porosities extending completely therethrough, said construction material comprising a foraminous material having a layer of comminuted porous material carried thereby, an adhesive being carried by said foraminous material in quantity sufficient to cause said porous material to adhere thereto but insufficient to fill the openings of said foraminous material.

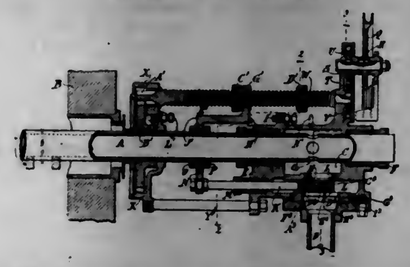
1,924,549
BISCUIT CUTTING AND PANNING MACHINE
Thomas Luther Green and Charles Herbert Williams, Indianapolis, Ind.
Application June 5, 1930. Serial No. 459,301
14 Claims. (Cl. 107—6)

3. A machine of the character described comprising, in combination, an apron for feeding a dough sheet, and a rotary cylinder having cutters distributed thereon and leaving a blank space without cutters, that the cutters may die out spaced batches of biscuits from the sheet on rotation of the cylinder, and means at the



space on the cylinder for engaging the apron to prevent the cylinder from moving toward the apron when the space is opposite the apron, the cylinder being rotated by engagement of the cutters and said means with the apron and feed of the apron beneath the cylinder.

1,924,550
BOILER CLEANER
De Los E. Hibner, Jr., and Theodore M. Bruback, Du Bois, Pa.
Application March 10, 1930. Serial No. 434,601
7 Claims. (Cl. 122—392)



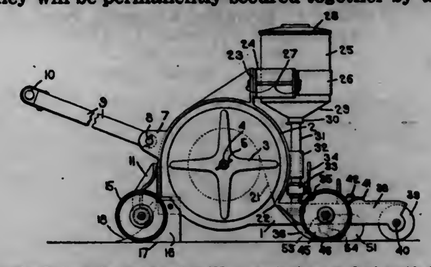
1. A cleaner for boilers or the like, comprising a cleaner element which is mounted for rotation and longitudinal movement, a source of fluid, a valve for controlling the passage of fluid to the cleaner element, and a connection between said valve and said cleaner element, said connection having means to transmit the longitudinal movements of the cleaner element to the valve, and said connection permitting relative rotative movements between itself and the cleaner element.

1,924,551
MACHINE FOR UNITING STRIPS OF FLOOR COVERING OR THE LIKE TO PRESENT A SEAMLESS UPPER SURFACE
Frank H. Higgins, Montclair, N. J., assignor to Sanford Mills, Sanford, Maine, a corporation of Maine
Application October 15, 1932. Serial No. 638,035
14 Claims. (Cl. 154—42)

1. A machine for uniting strips of floor covering or the like lying in the same plane with adjacent edges in abutment which comprises a portable carriage having means operable when the carriage is moved along said edges progressively to raise adjacent edge portions of said strips temporarily, and means for progressively delivering a binding tape having an adhesive-coated upper surface beneath the upraised edges of said strips, whereby upon restoration of the

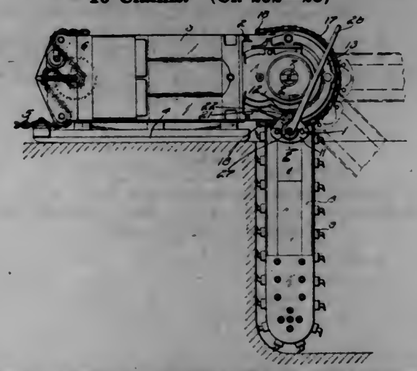
CARNEGIE LIBRARY OF ATLANTA

edge portions of said strips to normal position they will be permanently secured together by the



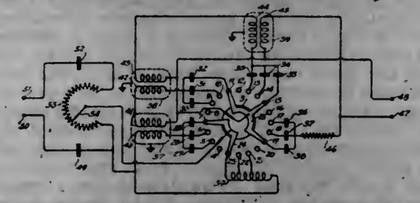
underlying tape and will present a substantially seamless upper surface.

1,924,552
MINING MACHINE
Morris P. Holmes, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application October 12, 1931. Serial No. 568,306
16 Claims. (Cl. 262—28)



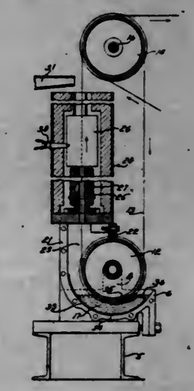
2. In a mining machine, the combination with a frame and a kerf cutting cutter bar pivotally mounted thereon to swing in a vertical direction, of mechanism for swinging said cutter bar about its pivot comprising a rotatable actuating element disposed on a horizontal axis and carried by said bar and a cooperating flexible element attached to said frame.

1,924,553
SELECTIVE TUNING DEVICE
Clinton W. Hough, New York, N. Y., assignor to Wired Radio, Inc., New York, N. Y., a corporation of Delaware
Application January 21, 1931. Serial No. 510,082
1 Claim. (Cl. 178—44)



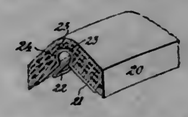
A selective tuning device comprising, a substantially circular mounting member, a plurality of contacts annularly positioned upon said mounting member, a second substantially circular mounting member, spacers interconnecting said mounting members, a plurality of inductances mounted upon said second mounting member, a plurality of capacitances connected to said contacts, a rotatable switch for engaging selected groups of said contacts to render selected values of said capacitances effective in cooperation with said inductances, a variable resistance, and a rotatable member for said variable resistance, said member being co-axial with respect to said rotatable switch.

1,924,554
MATERIAL TREATING MACHINE
Louis Joseph Hruby, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 10, 1930
Serial No. 501,205
4 Claims. (Cl. 91—55)



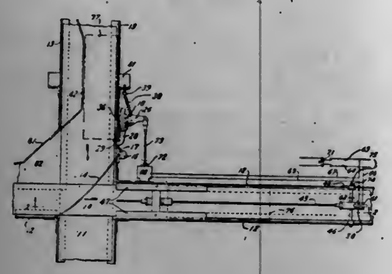
1. In a material treating apparatus, a container for a treating medium, a sheave positioned in the container for directing material through the medium, and a baffle positioned in the container under the surface of the medium and in yielding engagement with the sheave to prevent the medium from being discharged from the container.

1,924,555
MACHINERY PACKING
Cecil R. Hubbard, Palmyra, N. Y., assignor to The Garlock Packing Company, Palmyra, N. Y., a corporation of New York
Application September 18, 1931
Serial No. 563,529
5 Claims. (Cl. 288—1)



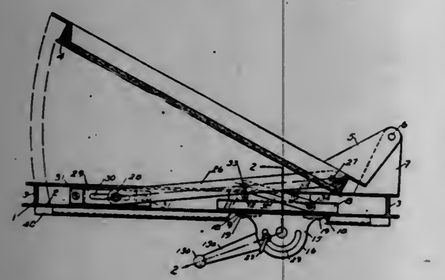
1. A machinery packing comprising a strip of flexible, fluid-sealing material of V-shaped form in cross-section having an undercut groove along the center of its concave side, in combination with an expanding element comprising resilient strip material including elements held in mutual interlocking engagement with the walls of the undercut groove in the sealing element and elements held against the inner walls of the sealing element at opposite sides of the groove and tending to flatten the structure by bending it along the relatively thin wall of material at the base of the groove.

1,924,556
NONINTERFERENCE APPARATUS
Chester S. Jennings and Louis E. Dupuy, Syracuse, N. Y., assignors to The Lamson Company, Syracuse, N. Y., a corporation of Massachusetts
Application September 20, 1930
Serial No. 483,207
11 Claims. (Cl. 198—21)



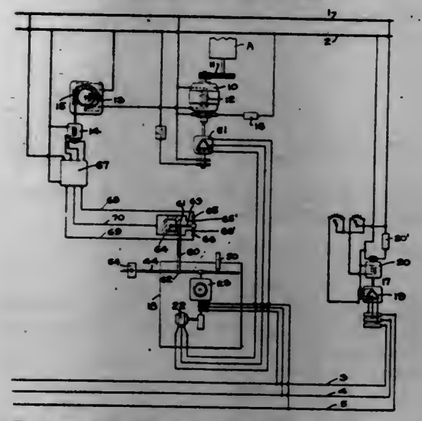
1. Apparatus of the class described comprising conveyors having intersecting paths, a rotary shaft disposed at one side of one conveyor, an arm fast on this shaft and movable from a position at one side of this conveyor to a position in the path of articles carried thereby, an operating arm rotatable on this shaft, an arm rigid with the shaft, resilient means between the operating and rigid arms for transmitting force from the operating arm to the shaft for moving the first-named arm into the path of articles, and opposed abutments on the operating and rigid arms, these abutments being engageable for retracting the first-named arm from the path of the articles on the conveyor.

1,924,557
CASEMENT WINDOW OPERATOR
Theodore Johnson, Erie, Pa., assignor to Johnson Metal Products Company, Erie, Pa., a corporation of Pennsylvania
Application July 22, 1929. Serial No. 379,903
21 Claims. (Cl. 268—117)



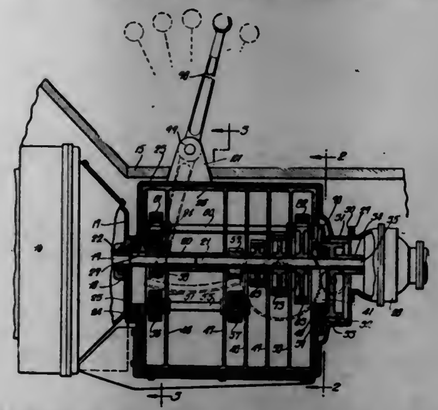
1. In a casement window, the combination with a frame and a sash hinged thereon, of an actuator comprising a lever pivotally connected to the sash and slidingly connected to the frame, said connection to the frame being remote from the hinge and locating the pivotal connection with the sash between said frame connection and the hinge with the sash in closed position and a link connected to the lever between its connections; and means actuating the link.

1,924,558
SPEED CONTROL APPARATUS
Walter C. Kennedy, Llanerch, Pa.
Application November 11, 1932
Serial No. 642,165
27 Claims. (Cl. 172—293)



2. In a speed regulator system. in combination with a prime mover the speed of which is to be controlled, gyroscopically operated means for regulating the speed of said prime mover.

1,924,559
CHANGE SPEED GEARING
Elisha Edward Lathrop, New York, N. Y.
Application April 23, 1932. Serial No. 607,049
5 Claims. (Cl. 74—58)



1. A transmission gearing comprising a power shaft, a driven shaft in axial alinement therewith, a gear on said power shaft, a plurality of gears on said driven shaft, a rotatable cylindrical casing enclosing said power shaft, driven shaft and the gears carried thereby, said casing being mounted eccentrically with relation to said power and driven shafts, a plurality of shafts mounted within said casing and carried thereby, said shafts extending parallel to the power and driven shafts, a gear carried by each end of each of said shafts adapted to mesh with their respective gears on the power and driven shafts, whereby to drive the driven shaft at speeds different from the speed of the power shaft, said shafts and gears being so constructed and arranged that rotation of the casing will bring the gears carried by said plurality of shafts successively into mesh with the gears of power and driven shafts, and means to rotate said casing.

1,924,560
METHOD OF FORMING DITCH LININGS
Willis Leriche, Allentown, Pa., and Ira V. Beasley, Yukon, Okla., assignors to Cement Gun Company, a company of Delaware
Application July 14, 1931. Serial No. 550,726
5 Claims. (Cl. 61—14)



1. A method of lining a ditch shaped in the dirt to the predetermined cross section except at the top where dirt is broken away, comprising stretching mesh material along said ditch to conform substantially with the shape thereof, applying removable forms of substantially uniform size at the upper edges of the ditch with the inner faces of said forms at the desired position for the outer surface of the lining, securing the forms in position by means attached to the forms and having engagement with the ground, and applying cementitious material to cover the mesh and form a lining of substantially uniform thickness.

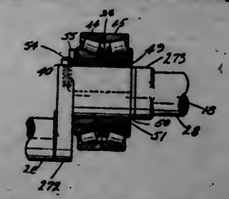
1,924,561
DISPENSING STRUCTURE
Edwin W. Lodge, Haddonfield, N. J., assignor of one-half to Lowder T. Layton, Merion, Pa.
Application March 15, 1932. Serial No. 598,921
17 Claims. (Cl. 221—60)



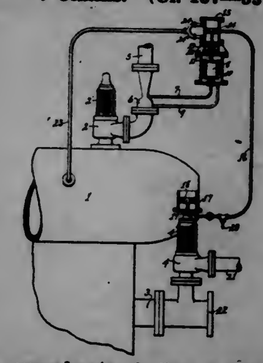
1. In combination, a dispensing spout, a closure member therefor, said spout and member having mutually engaging formations, said closure member movable along said spout to a position where said formations disengage leaving the closure member free to rotate with respect to the spout to open and close a discharge passage, and means for retaining said closure member in said position to prevent return to position for reengagement of said formations.

1,924,562
BEARING MOUNTING FOR CRANK SHAFTS AND THE LIKE
Nathan M. Lower, Crestwood, near Yonkers, N. Y., and Albert R. Chalker, Bellevue, and William G. Bailey, Mount Lebanon, Pa.
Application May 14, 1927, Serial No. 191,482
Renewed October 18, 1932
3 Claims. (Cl. 308—179)

1. In combination with a crankshaft having a journal and a crank arm at each side of the journal, an antifriction bearing mounted on said journal and comprising nonsplit outer and inner races, the internal diameter of the inner race being greater than the diameter of the journal, a spacer bushing mounted between the journal and said inner race, said bushing being split lengthwise into two parts, said crank arms at one side of the axis of the journal extending beyond the journal and one part of the spacer bushing being disposed and closely fitting between said crank arms, said crank arms on the opposite side of the axis of the journal arranged with one arm extending beyond the journal and with the other being within the confines of the radius of the journal, the other part of the spacer bushing being disposed on the last named side of the axis of the journal with one end thereof contacting the extending arm and means at the other end engaging the other arm to prevent longitudinal movement in one direction of the last named part of the spacer bushing.



1,924,563
SAFETY VALVE
Charles E. Lucke, New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a corporation of New Jersey
Application December 2, 1930. Serial No. 499,493
7 Claims. (Cl. 137—53)

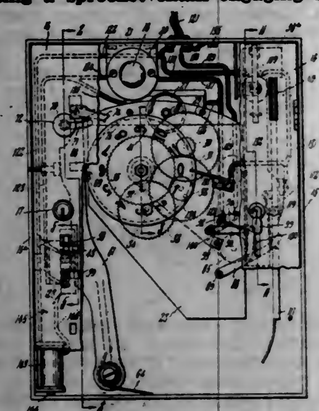


7. In a superheater boiler, a safety valve for saturated steam having a continuously open discharge passage connected thereto, a safety valve for superheated steam, and means actuated by the escape of saturated steam through said discharge passage for opening said superheated steam safety valve.

1,924,564
PARKING METER
Elmer L. Nichols, Boston, Mass., assignor to Roger W. Babson, Wellesley, Mass.
Application May 6, 1931. Serial No. 535,945
20 Claims. (Cl. 194—17)

1. In a metering apparatus of the type comprising an enclosed casing having an entrance for a controller body, a lock for securing such body when placed in the entrance, a time mechanism

in said casing, and means operated by the time mechanism for obstructing release of the lock; a means for displacing said obstructing means comprising a sprocket chain engaging said ob-



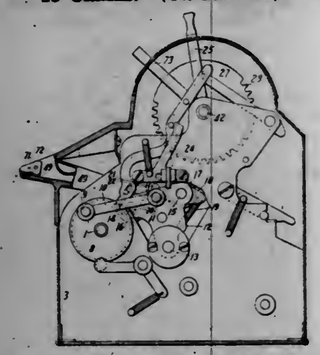
structing means, a manually actuated chain propelling dog movable back and forth for driving the chain step by step, a lock for preventing such manual actuation, and releasing means for said lock.

1,924,565

PRINTING REGISTER

John F. Ohmer, Robert B. Long, and Hastings W. Baker, Dayton, Ohio, assignors to Ohmer Fare Register Company, Dayton, Ohio

Application May 15, 1928. Serial No. 277,998
15 Claims. (Cl. 101—66)



1. In combination, printing wheels, an oscillatable carrier, a platen carried thereby, means whereby a sheet is gripped against said platen and means whereby said platen is moved carrying said sheet forward longitudinally so that an impression is made thereon by said printing wheels.

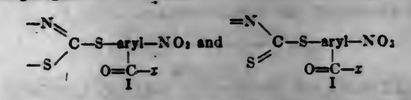
1,924,566

VULCANIZATION ACCELERATOR

Ludwig Orthner, Leverkusen-I. G. Werk, Ewald Zaucker and Max Bögemann, Cologne-Mulheim-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application September 16, 1932, Serial No. 633,454, and in Germany September 17, 1931
18 Claims. (Cl. 18—53)

1. Vulcanization accelerators consisting of compounds containing one of the tautomeric groupings:—



wherein the NO_2 group stands in ortho- or para-position to the sulfur atom and in meta position to the carbon atom marked I, and wherein x means hydrogen, an alkyl-, aryl-, aralkyl-, alkoxy-, hydroaryl- or amino group.

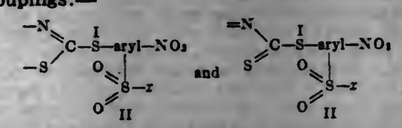
1,924,567

VULCANIZATION ACCELERATOR

Ludwig Orthner, Leverkusen-I. G. Werk, and Max Bögemann, Cologne-Mulheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application September 16, 1932, Serial No. 633,455, and in Germany September 19, 1931
15 Claims. (Cl. 18—53)

1. Vulcanization accelerators consisting of compounds containing one of the tautomeric groupings:—



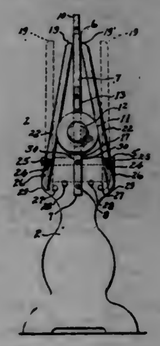
wherein the NO_2 group stands in orthro- or para-position to the sulfur atom marked I and in meta-position to the sulfur atom marked II, and wherein x means an alkyl-, aryl-, aralkyl-, alkoxy-, hydroaryl- or amino group.

1,924,568

MAGAZINE OR BOOK STAND

Joseph Paulus, Union, N. J.

Application June 28, 1932. Serial No. 619,639
7 Claims. (Cl. 45—64)



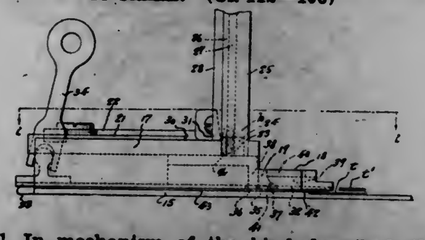
1. In a magazine or book stand, a support, a panel pivotally connected to said support, a plurality of consecutively disposed stop members carried by said support for engaging said panel to hold the same in any one of a plurality of selected angular positions about said support, said panel being arranged for rectilinear movement with respect to its pivotal connection on said support, whereby said panel may be caused to pass over one stop member during its movement to engage another stop member.

1,924,569

AUTOMATIC FEED FOR HOOK FASTENERS

Leo Roseman, Newark, N. J.

Application June 19, 1930. Serial No. 462,249
16 Claims. (Cl. 112—106)



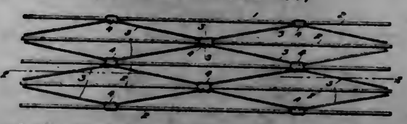
1. In mechanism of the kind described, the combination with a magazine adapted to contain an upstanding column of garment hooks vertically aligned with their hook portions upward, of a carrier member movable across the bottom end of said magazine to engage a single hook and remove the same from said magazine, a pushing member, said carrier member on its operative stroke being adapted to deliver the removed hook in upright position to said pushing member, and said pushing member being operative to turn to flat lying position and then deliver said hook to the place of use.

1,924,570

METAL FLOOR GRATING

Albert Rothman, New York, N. Y.

Application October 9, 1929, Serial No. 398,278
Renewed January 17, 1933
3 Claims. (Cl. 94—30)



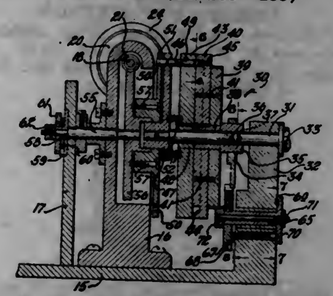
1. A floor grating composed of a number of parallel strips and diagonal strips connecting the same, the diagonal strips having a line contact with the parallel strips and secured thereto by welding.

1,924,571

COUNTING MECHANISM

John William Sager, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Original application March 30, 1925, Serial No. 19,461. Divided and this application filed November 30, 1926. Serial No. 151,654
2 Claims. (Cl. 235—139)



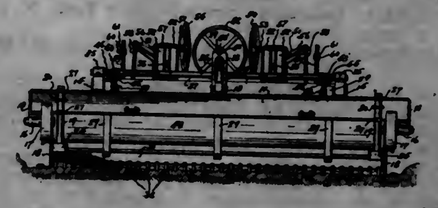
1. In a counter having a driving element, a shaft driven thereby, and a numeral carrying disc carried by the shaft and rotatable therewith, the combination of a carry-over member mounted on the shaft and rotatable therewith, a second numeral carrying disc rotatably mounted on the driven shaft between the member and the first disc, and means actuated by the member for imparting rotary motion to the second disc.

1,924,572

ROAD GRADING APPARATUS

Howard H. Samuel, Hackettstown, N. J.

Application January 13, 1932. Serial No. 586,306
10 Claims. (Cl. 37—108)



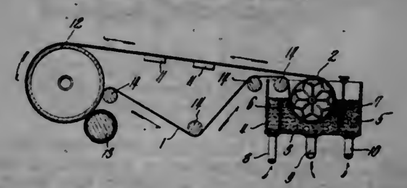
1. In a machine for subgrading between forms preparatory to casting concrete paving slabs, a frame-work having traction means to ride on said forms, a scarifying means vertically movable in connection with said frame-work to active or inactive positions, pivoted lever arms for lowering and raising said scarifying means, means for actuating said lever arms, and vertically adjustable stop screws mounted on said frame-work to lie in the path of said lever arms and adapted to stop downward movement thereof to thereby selectively limit the active position level of said scarifying means.

1,924,573

FIBROUS WEB FOR ARTIFICIAL LEATHERS OR THE LIKE

Milton O. Schur, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a corporation of Maine

Application January 19, 1932. Serial No. 587,543
8 Claims. (Cl. 92—3)



1. A waterlaid web of interfelted cellulose fibers whose main body portion is composed essentially of chemically pulped spruce and whose surface is composed essentially of chemically pulped birch and gelatinized cellulose.

1,924,574

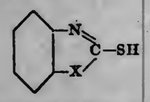
VULCANIZATION OF RUBBER

Winfield Scott, Nitro, W. Va., assignor to The Rubber Service Laboratories Co., Akron, Ohio, a corporation of Ohio

No Drawing. Application April 15, 1930
Serial No. 444,607
10 Claims. (Cl. 18—53)

9. The process of vulcanizing rubber which comprises heating rubber and sulfur in the presence of a vulcanization accelerator comprising a

reaction product of a mercapto-benzo-azole possessing the structure



where X represents oxygen or sulfur, and a polymethylene heterocyclic secondary amine.

1,924,575

PROCESS OF MAKING ORGANIC ESTERS

Otto Spring, Okmulgee, Okla., assignor to Doherty Research Company, New York, N. Y., a corporation of Delaware

Application August 4, 1930. Serial No. 473,035

14 Claims. (Cl. 260—106)

1. In the process of making organic esters from a solution of alkyl sulphates by reacting therewith a salt of an organic carboxylic acid, the improvement which comprises mixing the alkyl sulphate solution, carbon tetrachloride and the salt of the organic acid, said salt being present in an amount equal to about 80% of the sulphuric acid equivalent of the alkyl sulphate solution, heating the resulting mixture to a predetermined temperature to insure substantially complete reaction, cooling the said mixture and decanting off the liquid portions thereof.

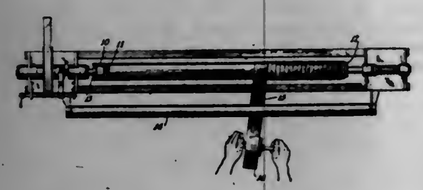
1,924,576

METHOD OF TREATING RUBBER COMPOSITIONS

Andrew Szegvari, Akron, Ohio, assignor to American Anode, Inc., Akron, Ohio, a corporation of Delaware

Continuation of application Serial No. 224,505, October 6, 1927. This application January 9, 1931. Serial No. 507,721

7 Claims. (Cl. 18—50)



1. The method of treating rubber compositions which comprises depositing a coagulated layer thereof from an aqueous dispersion and applying a pervious material to the deposit with a compacting pressure to remove a portion of the water content thereof without substantially changing its shape.

1,924,577

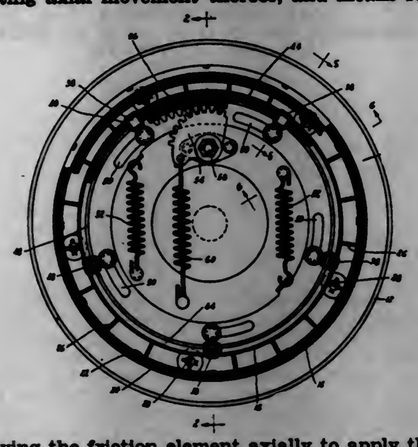
BRAKE

Robert N. Van Buskirk, Detroit, Mich., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois

Application July 27, 1928. Serial No. 295,678

13 Claims. (Cl. 188—71)

1. A brake comprising, in combination, a drum having a conical braking surface, a conical friction element within the drum engageable with said surface, a stationary ring-shaped element adjacent the friction element, said two elements having pin-and-slot interconnection preventing angular movement of the friction element but permitting axial movement thereof, and means for moving the friction element axially to apply the brake.



1,924,578

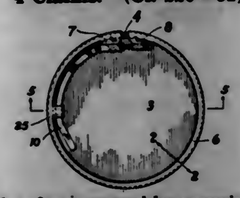
METALLIC RECEPTACLE AND CLOSURE THEREFOR

Alvin C. Vick, Toledo, Ohio, assignor, by mesne assignments, to Cornell Securities Corporation, Cleveland, Ohio, a corporation of Delaware

Application December 22, 1930

Serial No. 504,109

4 Claims. (Cl. 220—61)



3. A device for removably securing a head on a metallic receptacle in fluid tight relation including a split ring having portions for engagement with the head and receptacle to draw the same tightly together, means for contracting and expanding the ring including a lever and a link pivotally connecting said lever with said ring, and means connected with said link and said ring for selecting any one of a plurality of limits of contraction or expansion of said ring.

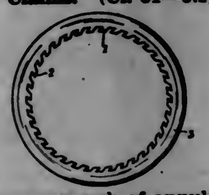
1,924,579

RUBBER CAP-WRENCH

John W. Waterhouse, Portland, Oreg., assignor to George E. Watts, Portland, Oreg.

Application March 16, 1932. Serial No. 599,187

6 Claims. (Cl. 81—3.1)



1. A rubber cap-wrench of annular form fashioned on the inside with leaves inclined to the several radii.

1,924,580

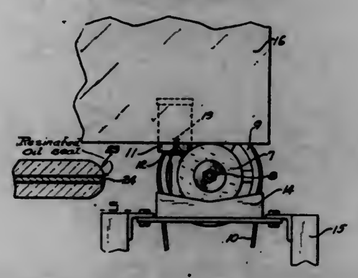
PROCESS FOR SEALING LAMINATED GLASS

George B. Watkins, Toledo, Ohio, assignor to Libby-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application May 8, 1928, Serial No. 276,051

Renewed February 1, 1933

10 Claims. (Cl. 49—81)



1. The process of sealing laminated glass, consisting in applying the sealing medium to the laminated sheet by means of a rotating surface operated in a manner to create sufficient friction to cause the sealing medium to penetrate the edge portion of the non-brittle sheet.

1,924,581

ALLOY

Richard A. Wilkins, Rome, N. Y., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland

No Drawing. Application December 25, 1931, Serial No. 583,160. Renewed May 22, 1933

6 Claims. (Cl. 75—1)

4. Alloys containing approximately from 88 to 93% copper, 0.1 to 0.6% iron, 0.4 to 5% silicon, with the balance approximately all zinc, in each particular instance enough silicon being present to cause substantially all the iron to be combined with silicon to form iron silicide, and in each particular instance the zinc not exceeding approximately 10%, the iron silicide being dissolved in a base of copper, zinc and silicon.

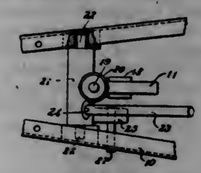
1,924,582

SURFACING MACHINE

Wade H. Wineman, Michigan City, Ind., assignor to Sullivan Machinery Company, a corporation of Massachusetts

Application October 17, 1929. Serial No. 400,311

12 Claims. (Cl. 51—177)



1. In a surfacing machine, a grinding head rotatable on a vertical axis, a guard surrounding, to a major extent, said head but leaving a substantial opening, and means for rotating said guard, there being a lost motion connection vertically between said guard and said rotating means.

1,924,583

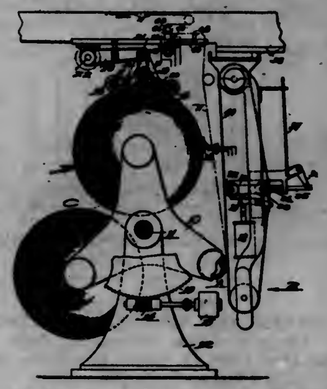
QUICK CHANGE SPLICING DEVICE

Henry A. Wise Wood, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia

Application June 15, 1927, Serial No. 198,981

Renewed January 11, 1933

18 Claims. (Cl. 242—58)



1. In a web splicing mechanism, the combination with means for supporting a movable web roll, means for rotating it up to web speed, feeding belts for the web roll, and means for moving one strand of the feeding belts up to the fresh web roll for splicing the old web to the web on the fresh roll.

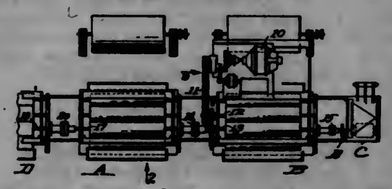
1,924,584

PRESS UNIT DRIVE

Henry A. Wise Wood, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia

Original application February 18, 1926, Serial No. 89,070, now Patent No. 1,883,256, dated October 18, 1932. Divided and this application April 10, 1930. Serial No. 443,062.

4 Claims. (Cl. 270—5)



1. The combination with a plurality of press units, each having a horizontal shaft parallel with the axes of the printing couple thereof, of a direct rigid connection between said shafts of two units which are in alignment with each other, and a main shaft directly connected with one of the driving shafts for driving it.

1,924,585

PAPER FEEDING DEVICE FOR PRINTING PRESSES

Henry A. Wise Wood, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia

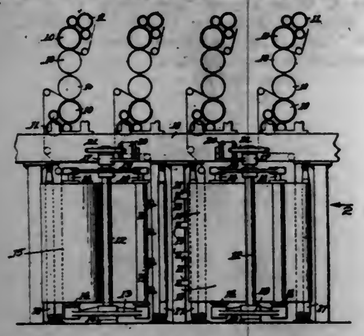
Application August 26, 1930, Serial No. 477,942

Renewed July 29, 1932

9 Claims. (Cl. 101—220)

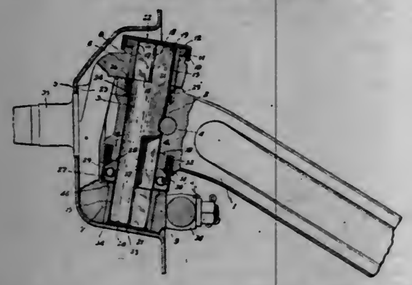
1. The combination with a press unit, of a vertical web roll reel located below the unit but a

little to one side thereof, and means for rotating said reel on a vertical axis to bring a fresh web



roll thereon toward the press into running position.

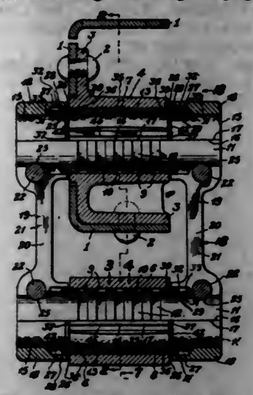
1,924,586
SHAFT AND SPINDLE BEARING
Oscar U. Zerk, Cleveland, Ohio
Application April 12, 1932. Serial No. 604,773
19 Claims. (Cl. 286—96.1)



1. A hinge bearing comprising a pin provided with oppositely facing laterally disposed longitudinally displaced bearing surfaces, a yoke member encircling said bearing surfaces, knife edge bearing elements making laterally rocking contact with said surfaces and disposed intermediate the bearing surfaces and the yoke ends whereby the yoke may oscillate radially of the pin.

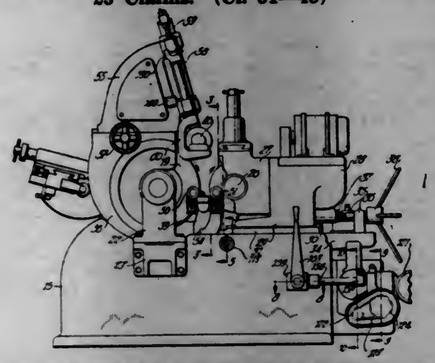
1,924,587
SPRING SHACKLE MECHANISM
Oscar U. Zerk, Cleveland, Ohio
Application April 12, 1932. Serial No. 604,777
58 Claims. (Cl. 267—54)

1. The combination with a shackle hanger and the terminal eye of a leaf spring of a spring shackle mechanism comprising a pair of spaced parallel links each transversely apertured at its ends, the corresponding apertures of two links being in substantial alignment, bearing mechanisms interposed between each pair of alignedly apertured link ends comprising a tubular cage disposed in substantial alignment with one of said pairs of aligned apertures and a pair of cooperating bearing elements disposed within the cage, one of said bearing elements being interlocked with the cage to restrain longitudinal relative movements of said interlocked element and cage, but permitting relative rotational movements thereof, the other of said bearing elements being rotatively supported in the cage to permit relative rotational movement between it and said cage, one of said elements provided with a longitudinally extending bearing edge making a substantially straight line rocking bearing engagement only



against a bearing surface of said other bearing element, approximately axially of said cage.

1,924,588
GRINDING MACHINE
Tom Addison, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application February 29, 1932. Serial No. 595,789
25 Claims. (Cl. 51—48)

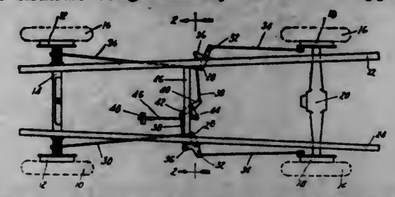


1. In a centerless grinder for grinding spaced portions of a work piece having said portions separated by an enlarged flange, the combination of a plurality of grinding wheels, a regulating wheel opposed to each grinding wheel, a work rest blade disposed in the space between the opposed portions of the grinding and regulating wheels and adapted to support the work with the flange thereof disposed between adjacent grinding wheels, and power operated means for axially adjusting the position of the grinding wheels to align the space therebetween with the flange of the work to facilitate loading and unloading of the work relative to the work rest blade.

1,924,589
BRAKE
William J. Andres, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application October 11, 1926, Serial No. 140,762
Renewed February 5, 1931
11 Claims. (Cl. 188—10)

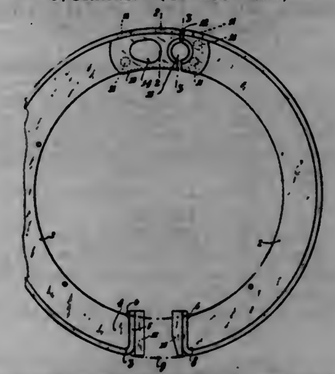
1. A vehicle having a chassis frame provided with front wheels having brakes and with rear

wheels having brakes, and comprising, in combination with said front and rear brakes, horizontally-swinging levers pivoted on the frame and slidable longitudinally thereof at opposite



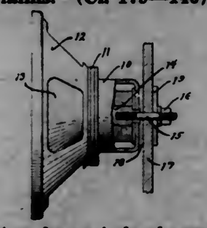
sides of the vehicle and each of which is connected to the front and rear brakes on its side of the vehicle, and a third horizontally swinging lever interchangeable with and arranged to operate both of said levers.

1,924,590
BRAKE SHOE
Raymond Alexandre Babel, Clichy, France, assignor, by mesne assignments, to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application December 6, 1928, Serial No. 324,198, and in France December 12, 1927
6 Claims. (Cl. 188—250)



1. A brake-shoe formed of a steel bar having a web and a flange, said shoe comprising two approximately semi-circular segments, each segment having a plate welded at one end thereof and a section of tube welded to the other end.

1,924,591
LOUD SPEAKER MOUNTING
Frederick P. Bartlett, Chicago, Ill., assignor to The Magnavox Company, Chicago, Ill., a corporation of Arizona
Application January 30, 1932. Serial No. 589,883
4 Claims. (Cl. 179—146)



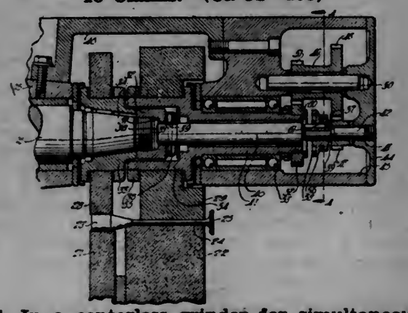
1. In an electro-dynamic loud speaker suitable for mounting upon a vertically disposed partition, the combination of an electro-magnetic field frame having a diaphragm mounted upon one end thereof, a single stud extending rearwardly from said field frame adapted to project through the partition, a yielding member between the speaker frame and one side of the partition, a relatively large washer of stiff material on the other side of the partition, and means upon the end of said stud for securing said yielding member and said washer in clamping engagement with the partition to thereby secure the speaker thereupon.

1,924,592
BRAKE
Vincent Bendix, Chicago, Ill., and Adiel Y. Dodge, South Bend, Ind., assignors to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application December 15, 1927
Serial No. 240,243
4 Claims. (Cl. 188—78)



1. A brake comprising, in combination, a shoe having spaced webs, at least one of which is formed with a relatively-large opening, and a shaft passing through said opening and provided with an applying device between said webs in engagement with the shoe.

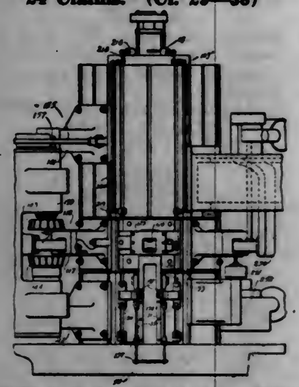
1,924,593
GRINDING MACHINE
George W. Binns, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application December 31, 1931
Serial No. 584,174
18 Claims. (Cl. 51—103)



1. In a centerless grinder for simultaneously grinding a plurality of diameters on a work piece the combination of a bed, a grinding wheel for each portion of the work piece rotatably mounted on the bed, a regulating wheel opposed to each grinding wheel, the said grinding and regulating wheels forming a grinding throat between them, a work support within the grinding throat for

supporting a work piece in simultaneous engagement with the said wheels, and means for rotating each pair of opposed wheels at different relative speeds whereby the work piece is rotated at the same speed regardless of which work diameter and regulating wheel is effecting the control.

1,924,594
COMBINED AUTOMATIC MACHINE-TOOL
Louis H. Blood and Charles W. Goodrich, Cincinnati, Ohio, assignors to The Cincinnati Milling Machine Company, Cincinnati, Ohio, a corporation of Ohio
Application January 15, 1931. Serial No. 508,991
24 Claims. (Cl. 29—38)

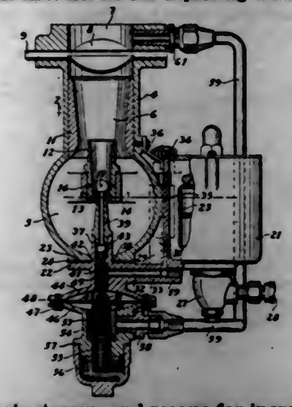


1. A machine tool comprising a column, a plurality of pairs of upper and lower coplanar tool receiving surfaces on the column forming stations, tool heads mounted on each of said surfaces and movable relatively thereto, a spindle in each tool head, individual prime movers for rotating the spindles mounted on each tool head and movable therewith, a work support journaled on the column intermediate the tool receiving surfaces, means to feed the tool heads toward and from the work support and means to index the work support to position the work successively at each station for operation thereon by the tools located at each station and mechanism connecting said means for effecting alternate actuation thereof.

22. A milling machine comprising a column, a vertical and horizontal annular bearing surface formed on the column, a turret journaled and supported on said bearing surfaces, a plurality of tool heads mounted on the column forming stations, hydraulically actuated means for indexing the turret from station to station, and means to float the turret during the indexing operation including an annular pressure groove formed on the horizontal bearing surface, a concentric exhaust groove adjacent said pressure groove forming an intermediate bearing surface, and means to admit fluid to the pressure groove upon initiation of the indexing movements to cause elevation of the turret and formation of a lubricating film between said intermediate bearing surface and the turret, and a return channel connected to the exhaust groove whereby the escaping fluid may be returned to reservoir.

1,924,595
CARBURETOR
Milton E. Chandler, South Bend, Ind., assignor to Bendix Stromberg Carburetor Company, South Bend, Ind., a corporation of Illinois
Application August 20, 1930. Serial No. 476,529
4 Claims. (Cl. 261—69)

1. In a carburetor having a throttle, the combination of a nozzle for injecting kerosene into an air stream, a second nozzle arranged concentric to the first nozzle for injecting a second fluid



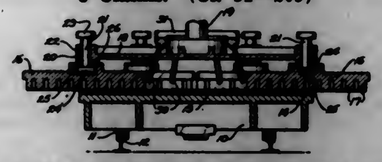
into the air stream, and means for increasing the rate of injecting the second fluid upon increase in the pressure posterior to the throttle.

1,924,596
DOG LEASH
Harry C. Davis, Pittsburgh, Pa.
Application July 27, 1932. Serial No. 625,062
2 Claims. (Cl. 119—109)



1. An animal leash comprising an elongated cable formed of strong flexible rubber or material having like properties, having a grip on one end and means on the other for readily attaching it to an animal's collar.

1,924,597
GLASS SURFACING TOOL
John L. Drake, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application February 14, 1929. Serial No. 339,825
3 Claims. (Cl. 51—209)

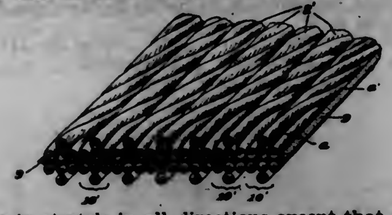


1. A glass grinding head comprising a runner frame, a plurality of substantially triangularly shaped segments interfitted with one another in a manner to provide a tool of disc formation, vertical shafts carried by said frame, one being provided for each segment, means for mounting the shafts for slidable but non-rotatable movement and connections between each shaft and its respective segment to allow both vertical and rocking movement thereof while preventing its individual rotation.

1,924,598
ELASTIC FABRIC
Warner Eustis, Newton, Mass., assignor to The Kendall Company, Walpole, Mass., a corporation of Massachusetts
Application July 8, 1931. Serial No. 549,344
16 Claims. (Cl. 154—48)
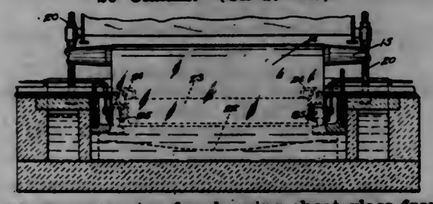
1. An elastic fabric comprising a series of loosely twisted threads arranged side by side in

the form of a layer and elastically held in said relationship by a coating of rubber bonded to one side of said layer, whereby said fabric is



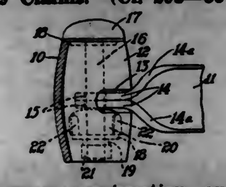
free to stretch in all directions except that substantially parallel to said threads, the side of said layer opposite to said coating being substantially free from said coating.

1,924,599
METHOD AND APPARATUS FOR DRAWING SHEET GLASS UNDER PRESSURE
Enoch T. Ferngren, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application January 7, 1925. Serial No. 975
20 Claims. (Cl. 49—17)



20. In apparatus for drawing sheet glass from a bath of molten glass, a receptacle for containing a bath of molten glass, a relatively long narrow refractory body adapted to be immersed in the glass bath with the end portions thereof adjacent the opposite walls of said receptacle, said refractory body having a slot therein extending substantially throughout the length thereof and coextensive with the sheet being drawn, means for drawing the sheet from the glass in line with the slot, said refractory body extending to a greater depth in the bath in its middle portion than at the ends thereof.

1,924,600
BUMPER END CONSTRUCTION
Harry E. Figgie, Lakewood, Ohio, assignor to Standard Steel Spring Company, a corporation of Pennsylvania
Application May 7, 1931. Serial No. 535,629
9 Claims. (Cl. 293—55)

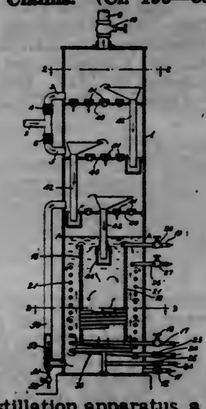


1. In a bumper construction, an impact bar having an end bent around into a hollow, substantially closed terminal, said terminal having a slot through one wall thereof, a rear bar having an end passing through said slot into the interior of said terminal, and means for pivotally connecting the indicated members in operative assembly, said means terminating within said terminal which, accordingly, covers and protects the same.

1,924,601
COMPOSITE STRUCTURE
Harry C. Fisher, Norwood, Ohio, assignor to The Richardson Company, Lockland, Ohio, a corporation of Ohio
No Drawing. Application May 25, 1929
Serial No. 366,104
5 Claims. (Cl. 154—51)

1. A composite structure comprising a base of a composition of bitumen and fibers felted upon a screen, and a substantial surface covering of a hardened condensation resin, sufficient to determine the appearance of said surface and substantially combined thereto so as to form an overlying layer.

1,924,602
METHOD AND APPARATUS FOR DISTILLATION OF HYDROCARBONS
Clare D. Gard, Los Angeles, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application May 30, 1930. Serial No. 457,656
5 Claims. (Cl. 196—85)



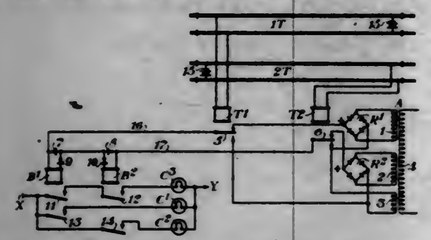
1. In oil distillation apparatus, a vertically disposed, closely wound heating coil defining a distillation chamber and additionally functioning as a current directing baffle, a second heating coil, spaced from and disposed around said first mentioned coil, and means to induce circulation of the oil undergoing distillation in such a manner that oil within the distillation chamber is caused to flow downwardly along the inner periphery of the closely wound coil and thence upwardly between the two coils.

5. A method of steam distilling oil without substantial cracking thereof comprising inducing a down-flowing current of oil along the periphery of a heating coil and within a body of oil by an ascending stream of steam, deflecting the direction of said down-flowing current by a second, ascending stream of steam so that the oil is caused to flow upwardly between the first mentioned coil and a second coil annularly disposed with respect to the first coil, and flowing heating fluid through said coil to heat the oil during its downward and upward courses.

1,924,603
REMOTE INDICATION APPARATUS
Robert M. Gilson, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application August 14, 1931. Serial No. 556,972
6 Claims. (Cl. 175—320)

2. In combination, two full-wave rectifiers each supplied with alternating current, a pair of con-

ductors, means for supplying current of one polarity or the other to said conductors from one of said rectifiers or the other and for entirely dis-



connecting from said conductors the rectifier which is not supplying current thereto, and polarity responsive receiving means connected with said conductors.

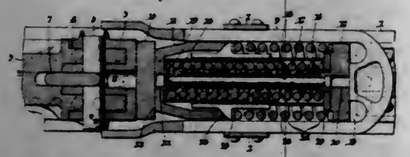
1,924,604

DRAFT GEAR

William E. Gray, West Lafayette, Ind., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Delaware

Application August 29, 1930. Serial No. 478,595

7 Claims. (Cl. 213—22)



4. In a friction draft gear, relatively movable inner and outer cylinders, said outer cylinder having flexible crimped sections, said inner cylinder having a thin wall permitting its distortion from normal cylindric shape incident to inward pressure exerted by said outer cylinder, and means for wedging said cylinders together in sliding frictional contact.

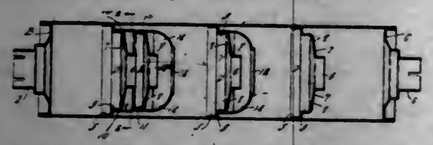
1,924,605

MUFFLER

Lucien L. Haas, Buffalo, and Gail C. Starkweather, Kenmore, N. Y., assignors to Buffalo Pressed Steel Company, Buffalo, N. Y., a corporation of New York

Application October 7, 1930. Serial No. 486,937

7 Claims. (Cl. 137—160)



1. A muffler having a housing provided with inlet and discharge openings, a baffle arranged in said housing and having a discharge orifice approximately equal in size to the discharge opening in said housing and openings of smaller size arranged about said orifice, and a deflector arranged within said housing beyond said baffle and having an opening in alinement with said orifice and imperforate walls formed to guide gases flowing through said openings in said baffle toward the jet of gas discharged through the orifice of said baffle.

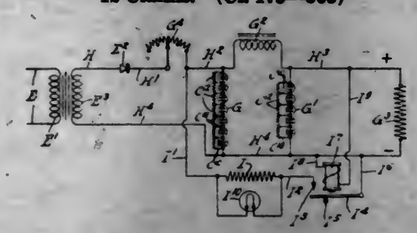
1,924,606

ELECTROLYTIC CONDENSER

Laurens Hammond, Evanston, Ill., assignor, by mesne assignments, to Ralph D. Mershon, New York, N. Y.

Application November 8, 1928. Serial No. 318,085

12 Claims. (Cl. 175—363)



1. In combination, an electrolytic condenser which includes electrodes and an electrolyte, a metallic positive electrode which does not combine chemically with the electrolyte, said electrode being free from any dielectric film, and means for limiting the operating voltage to voltages at which substantially no free oxygen or hydrogen is liberated.

1,924,607

FLOTATION METHOD

Mahlin S. Hansen, Indianapolis, Ind., assignor to Peter C. Reilly, Indianapolis, Ind.

No Drawing. Application May 2, 1931

Serial No. 534,700

7 Claims. (Cl. 209—166)

1. The process of concentrating materials by froth flotation, which consists in subjecting the unconcentrated material to froth flotation in the presence of a material of the class consisting of soluble inorganic selenides and tellurides.

1,924,608

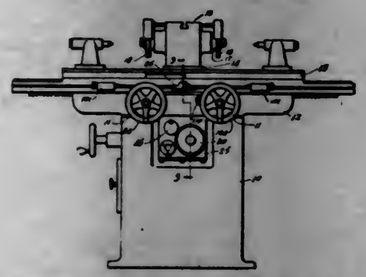
CUTTER GRINDER

Herman R. Isler, Norwood, Ohio, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio, a corporation of Ohio

Application November 19, 1931

Serial No. 576,117

14 Claims. (Cl. 51—95)



1. A cutter grinder having a bed, a saddle reciprocably mounted upon the bed, a grinding wheel, a table mounted on the saddle for reciprocation relative to the grinding wheel, power means for effecting said reciprocation including a transmission carried by the saddle, a friction reverser clutch mounted in the saddle for coupling the transmission to the table, and fluid operable means for shifting said clutch including an hydraulic operating circuit self-contained in one of the movable members.

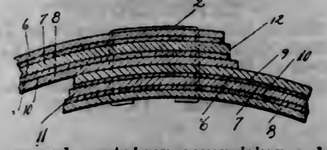
1,924,609

CYLINDRICAL AND THE LIKE CONTAINER MADE OF COMPOSITE MATERIALS

Charles L. Keller, Cincinnati, Ohio, assignor to The Richardson Company, Lockland, Ohio, a corporation of Ohio

Application October 6, 1930. Serial No. 486,586

3 Claims. (Cl. 229—3.5)



2. A curved container comprising a blank of plies of boxboard thickness, at least one of which is the felted product of a bituminous pulp, said plies cemented together with a bitumen having a resident plasticity at ordinary temperatures, said blank being bent to a cylindrical shape without scoring and fastened, without separation or disruption of plies.

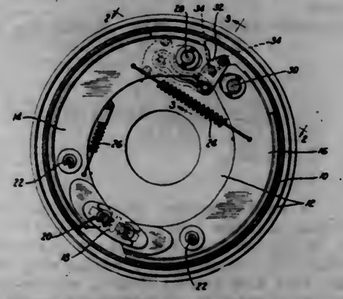
1,924,610

BRAKE

Ludger E. La Brie, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois

Application November 5, 1930. Serial No. 493,528

5 Claims. (Cl. 188—78)



1. A brake comprising a backing plate carrying shiftable-anchorage friction means, in combination with a bell crank lever fulcrumed on the backing plate and movable in a plane approximately at right angles thereto, a floating applying lever pivoted on one arm of the bell crank lever and arranged between the ends of the friction means and operable to pry said ends apart to apply the brake, a flexible conduit having its end extending in a direction approximately perpendicular to the plane of the backing plate and secured to the backing plate, and a flexible tension element extending through the conduit and through the backing plate and connected to the other arm of the bell crank lever.

1,924,611

BRAKE OPERATING MECHANISM

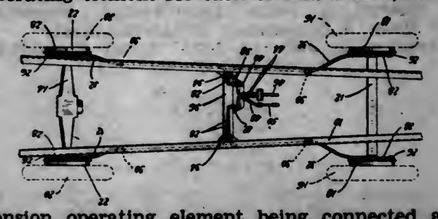
Ludger E. La Brie, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois

Application November 28, 1930

Serial No. 498,621

8 Claims. (Cl. 188—10)

6. A vehicle having a pair of front wheels provided with brakes; a pair of rear wheels provided with brakes; flexible conduits for each of said brakes, each conduit being supported at one end by its associated brake and having its opposite end supported at a side of the vehicle at a point adjacent to the transverse center line and directed inwardly therefrom toward the longitudinal center line of the vehicle; a tension operating element for each of said brakes, each



tension operating element being connected at one end to its associated brake, extending through the corresponding conduit, and having its other end extending transversely toward the longitudinal center line of the vehicle; and an operating lever connected to all of said cables.

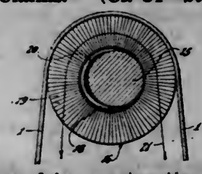
1,924,612

PAPER DRYING APPARATUS OF THE FESTOON TYPE

William P. McCorkindale, South Hadley Falls, Mass., assignor to Esleeck Manufacturing Company, Turners Falls, Mass., a corporation of Massachusetts

Application February 9, 1931. Serial No. 514,461

6 Claims. (Cl. 34—20)



1. In a festoon drier construction, for the purpose described, a carrier and supporting member formed as a brush, comprising a metal shaft and bristles wired to said shaft.

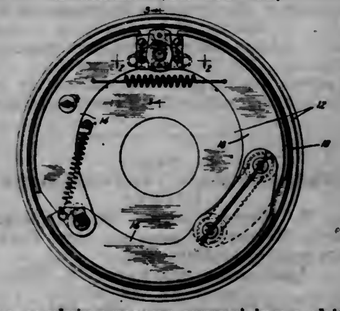
1,924,613

BRAKE

Eugene G. McDonald, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois

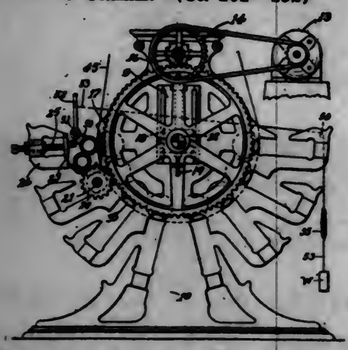
Application August 26, 1929. Serial No. 388,304

1 Claim. (Cl. 188—78)



Brake-applying means comprising a shiftably-mounted bracket having spaced ball bearings, a shaft journaled in said bearings and having an operating lever at one end and a reduced-diameter portion at its other end, a pair of spaced plates mounted on the reduced-diameter portion, and a pair of thrust rollers mounted between said plates on opposite sides of the shaft.

1,924,614
INTERMITTENT COLOR TEXTILE PRINTING MACHINE
Alexander McNicol, Andrew McNicol, and Lewis A. Gill, Jewett City, Conn., and Stephen B. Stafford, Oxford, Mass., assignors to Rice, Barton & Fales, Incorporated, Worcester, Mass., a corporation of Massachusetts
Application July 10, 1931. Serial No. 549,948
9 Claims. (Cl. 101—152)



1. In a color printing machine, the combination of a series of color rolls arranged in the arc of a circle, impression surfaces arranged to engage them, a rotary shaft, means on said shaft for moving the rolls back, one by one intermittently, when it is desired to print intermittent designs, and yielding means for forcing said rolls into contact with the impression surfaces.

1,924,615
PROCESS FOR THE MANUFACTURE OF ESTERS
Sylvan R. Merley, Dover, N. J., and Otto Spring, Okmulgee, Okla., assignors to Doherty Research Company, New York, N. Y., a corporation of Delaware
Application June 11, 1928. Serial No. 284,347
26 Claims. (Cl. 260—106)

1. In the process of manufacturing tertiary alkyl organic esters from a tertiary alkyl sulphate containing product, by reacting therewith an inorganic salt of an organic carboxylic acid, the improvement which comprises mixing a substantial quantity of saturated liquid hydrocarbons with the sulphate product and incorporating with the resulting mixture the inorganic salt of an organic acid, agitating the resulting mixture and gradually raising the temperature thereof to approximately 190° F. whereby tertiary alkyl organic esters are formed and thereafter separating the resulting esters from the reaction residue.

1,924,616
PROCESS FOR MANUFACTURING ORGANIC ESTERS
Sylvan R. Merley, Dover, N. J., assignor to Doherty Research Company, New York, N. Y., a corporation of Delaware
Application September 18, 1930
Serial No. 482,667
13 Claims. (Cl. 260—106)

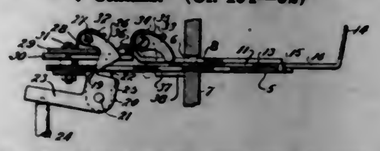
1. The process of making organic esters, which comprises mixing alkyl sulfates and hexyl acetate with vigorous agitation in the cold, then slowly adding an anhydrous salt of an aliphatic monocarboxylic acid, heating the mixture to a predetermined temperature at which substantially complete reaction results, adding dry aliphatic monohydroxy alcohol thereto to neutralize any excess organic acids evolved, heating and refluxing the resulting mixture, then adding anhydrous lime to neutralize the free sulfuric acid present in the mixture, and dry distilling off the alcohols and esters.

1,924,617
LATEX GLOVE
Lee R. Miller, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application March 21, 1931. Serial No. 524,401
11 Claims. (Cl. 154—2)



1. The method of edge-finishing a thin translucent rubber article which comprises applying to the rubber adjacent the edge to be finished a coating of colored material, and rolling the edge portion of the rubber upon itself so as to impart to the rolled portion the color of the coating.

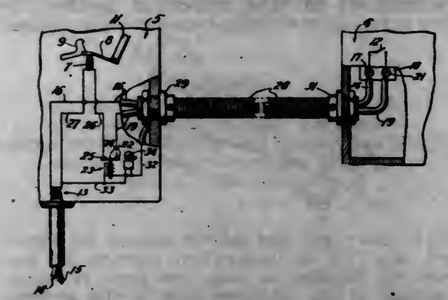
1,924,618
COIN SLIDE
Fred L. Mills, Oak Park, Ill., assignor to Mills Novelty Company, Chicago, Ill., a corporation of Illinois
Application April 10, 1930. Serial No. 443,028
7 Claims. (Cl. 194—92)



7. In a coin-operated machine, a coin slide comprising a slide rest provided near its inner end with an opening for the passage of a coin therethrough, a manually operable slide mounted on said rest and provided with a coin-receiving pocket positioned to register with said opening in the rest when the slide is moved inwardly, means operative upon the passage of a coin through said opening in the rest to start the operation of the machine, said means comprising a member operatively connected with the starting mechanism of the machine and positioned to be engaged and actuated by a coin passing through said opening in the slide, and means for pressing the coin through the aligned openings in said slide and slide rest to actuate said member.

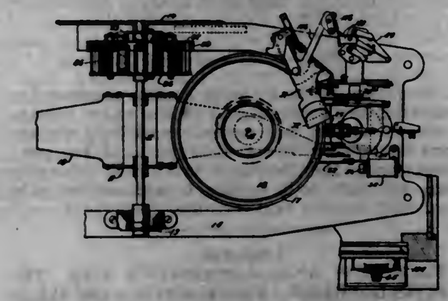
1,924,619
PROTECTIVE DEVICE FOR CONTROL CIRCUIT OF ELECTRIC PHONOGRAPH OR THE LIKE
Bert E. Mills, Oak Park, Ill., assignor to Mills Novelty Company, Chicago, Ill., a corporation of Illinois
Application January 14, 1931. Serial No. 508,643
9 Claims. (Cl. 194—97)

4. The combination with an electrically-operated machine, a coin-controlled circuit, including a coin switch, for controlling the operation thereof, and a conductive shield for the leads from said switch to said machine, of electrically-operated means for rendering said coin-controlled circuit inoperative to actuate the machine when said circuit is closed by cutting through said shield, said means including a circuit, one side



of which includes a portion of said shield between the point of cutting thereof and the controlled machine.

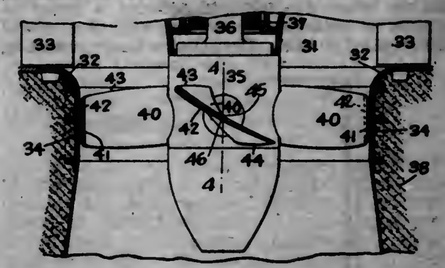
1,924,620
REMOTE CONTROL SELECTIVE DEVICE FOR AUTOMATIC MULTIPLE-RECORD PHONOGRAPHS OR THE LIKE
Bert E. Mills, Oak Park, Ill., assignor to Mills Novelty Company, Chicago, Ill., a corporation of Illinois
Application January 15, 1931. Serial No. 508,937
14 Claims. (Cl. 274—10)



1. In an automatic, multiple-record phonograph: a record carrier for a plurality of records; coin-controlled electrical means for operating said carrier; a reproducer mounted adjacent said carrier; means for automatically moving said reproducer into and out of operative relation to the records on said carrier; record selecting means including a plurality of electric circuits and a selector switch which may be located remotely from the phonograph; and electrical devices controllable by said switch through a selected one of said circuits for preventing the movement of the reproducer into operative position until the selected record arrives at the playing station.

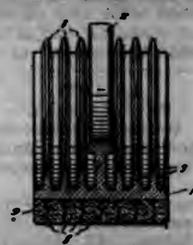
1,924,621
CAVITATION FREE FLUID JOINT
Hans Mueller, Heidenheim-on-the-Brenz, Wurttemburg, Germany, assignor to J. M. Voith, Heidenheim-on-the-Brenz, Germany, a copartnership composed of Walther Voith, Hermann Voith, and Hanns Voith
Application March 6, 1933, Serial No. 659,792, and in Germany August 20, 1931
15 Claims. (Cl. 253—117)

1. The combination with a casing, of an impeller having a plurality of blades, the outer edges of the blades being concentric with the casing wall and inclined at an angle of not less than 3° from



the vertical so that the fluid joint between the casing and the outer edges of the blades is tapered.

1,924,622
BRAKE APPARATUS
Raymond J. Norton, Washington, D. C., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois
Application December 12, 1930
Serial No. 501,942
6 Claims. (Cl. 188—264)



1. A brake member comprising a brake shoe provided with heat radiating fins, a bonded asbestos lining secured to the shoe and a highly heat conductive and substantially infusible means embodied in the lining and extending from the frictional engaging surface to the shoe and contacting with the shoe to transmit generated frictional heat from the frictional engaging surface to the shoe.

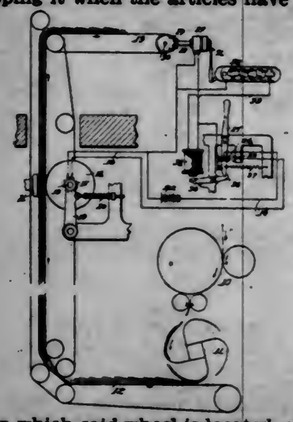
1,924,623
REFINEMENT OF CELLULOSE FIBER
George A. Richter, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a corporation of Maine
No Drawing. Application September 6, 1930
Serial No. 480,201
6 Claims. (Cl. 92—13)

1. A process which comprises digesting preliberated cellulose fiber at a temperature of not less than about 175° C., in water furnished with only a low concentration of hydroxyl ions to neutralize such acidity as is generated in the water.

1,924,624
PRODUCTION CONTROLLER
Oscar Charles Roesen, Brooklyn, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia
Application December 27, 1928
Serial No. 328,799
2 Claims. (Cl. 235—98)

1. In a counting device for the purpose described, the combination with a conveyor for transferring articles, of a counting wheel mov-

ably mounted, means for normally forcing the counting wheel against said articles, a brake in position to be engaged by the counting wheel and stopping it when the articles have passed it,

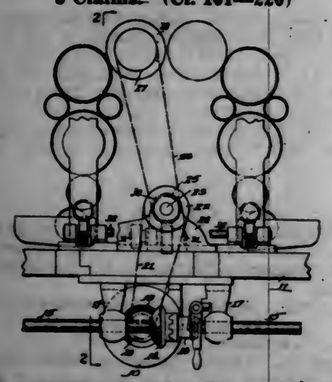


a shaft on which said wheel is located, a commutator and magnetic clutch on said shaft, and a counter connected with and controlled by said commutator for counting the articles delivered in accordance with the rotation of said shaft.

1,924,625
PRESS DRIVE

Oscar Charles Roesen, Eastchester, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia

Application December 11, 1929, Serial No. 413,287
Renewed July 29, 1932
3 Claims. (Cl. 101—220)



1. In a printing machine, the combination with the bed plate of the frame of a motor supported by the bed plate below it, an intermediate shaft supported by the bed plate above it, a chain from the motor shaft to the intermediate shaft, an impression cylinder, a chain from the intermediate shaft to the impression cylinder, speed reducing means connected with said intermediate shaft and means for driving a fountain roll from the speed reducing means.

1,924,626
CLEANER FOR IMPLEMENT WHEELS

Edd Reddel, Parker, S. Dak.

Application November 2, 1931. Serial No. 572,706
2 Claims. (Cl. 280—158)

2. A cleaner for implement wheels comprising, a supporting member mounted upon an implement with a portion thereof extending adjacent to the tread of a wheel, a scraper blade swingably mounted by said supporting member, a spring normally resiliently swinging said scraper

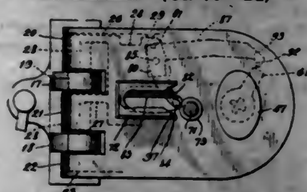


blade to move the edge thereof toward the wheel tread, and an adjusting bolt carried by the supporting member to stop and limit swinging movement of the effective edge of the scraper blade toward the wheel tread.

1,924,627
CHAIN LOCK

Samuel Segal, Brooklyn, N. Y.

Application February 27, 1933
Serial No. 658,690
11 Claims. (Cl. 70—14)

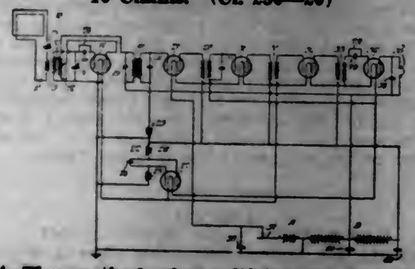


4. In combination, a casing having a keeper for supporting one terminal of a chain, chain releasing means within said casing comprising striker means disposed within said keeper and key controlled means for operating said chain releasing means to shift said striker means across said keeper and remove said terminal therefrom.

1,924,628
METHOD OF AND APPARATUS FOR RECEIVING HIGH FREQUENCY OSCILLATIONS

Edwin H. Smythe, Evanston, Ill., assignor to American Telephone and Telegraph Company, a corporation of New York

Application February 8, 1926. Serial No. 86,811
10 Claims. (Cl. 250—20)

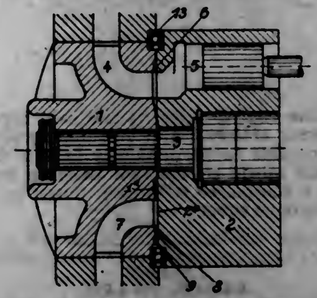


4. The method of amplifying received high frequency electrical wave energy and of minimizing the introduction of disturbances, which method comprises producing low frequency waves of amplified energy under the control of said high frequency wave energy for obtaining a part of the desired amplification, supplying intermediate frequency waves, modulating said intermediate frequency waves with said low frequency waves of amplified energy to produce modulated intermediate frequency waves of amplified energy, and amplifying said modulated intermediate ate frequency waves for obtaining the remaining part of the desired amplification.

1,924,629
HYDRAULIC PUMP AND MOTOR

Hans Thoma, Karlsruhe, Germany

Application November 5, 1931, Serial No. 573,231, and in Germany November 13, 1929
4 Claims. (Cl. 103—162)



1. In a device of the kind described, a stator provided with a plane face and having inlet and outlet ports opening through said face, one of said ports being for fluid under pressure, a cylinder block having a plane face abutting and coacting with the stator face, said cylinder block having a plurality of cylinders formed therein and opening by ports through said plane face, and pistons in said cylinders, said stator having grooves in its plane face extending radially beyond the peripheries of the cylinder ports from the port containing fluid under pressure, said stator further having pressure grooves formed in its plane face in spaced relation to the pressure port and having said grooves opening into the pressure grooves.

1,924,630
WEDGE BAR

Henry Herbert Toogood, Los Angeles, Calif.

Application June 10, 1930. Serial No. 460,257
6 Claims. (Cl. 25—131)

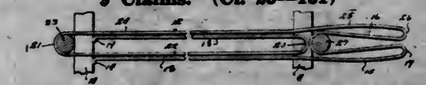


5. The combination with a tie having a terminal hook, of a tie clamp including a body having a hook receiving slot, the walls of said slot constituting means for confining the hook and preventing it from spreading open, and a non-removable wedging element constantly seated in the body and adjustably engaging the confined hook.

1,924,631
FORM TIE

Henry H. Toogood, Los Angeles, Calif.

Application October 20, 1932. Serial No. 638,808
9 Claims. (Cl. 25—131)

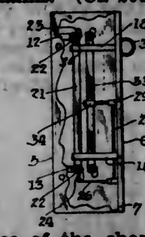


6. A form tie comprising a member adapted to hold opposing walls of a form in spaced relation to each other, said member comprising a single wire strand looped upon itself in a manner to provide a twisted central portion, wall holding members at each end of the central portion, an open loop at one end of the central portion, the opening of said loop extending outwardly and the closed portion of said loop constituting a saddle to receive a wall engaging member therein, and loops formed with each side of the open loop to facilitate tightening of the wall engagng member within the closed portion of the loop.

1,924,632
FUSE DEVICE

Koichi Tsukamoto, Paia, Territory of Hawaii

Application November 8, 1932. Serial No. 641,769
2 Claims. (Cl. 200—126)



1. In a device of the character described, a fuse box having a pair of spaced clips positioned therein, a hinged cover for said fuse box, supporting arms secured to said cover, said arms being in alignment with said clips whereby a cartridge positioned in said arms may be moved into engagement with said clips, a fuse cartridge supported by certain of said arms and engaging one of said pairs of clips to complete an electrical circuit, an auxiliary fuse cartridge supported by the other of said arms, a clamp engaging said auxiliary cartridge, a rod extending from said clamp and extending into a supporting box, spring means interposed between said clamp and said box, and a releasing mechanism interposed between said first mentioned fuse and said rod whereby the blow-out of said first mentioned fuse cartridge will release said rod whereby said spring will force said auxiliary cartridge into certain of said clips to complete an electric circuit.

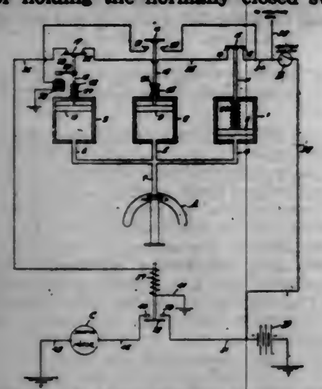
1,924,633
STARTER FOR ENGINES

Raymond C. Whittington and Aldine W. Whittington, Harrisburg, Pa.

Application July 22, 1932. Serial No. 624,130
5 Claims. (Cl. 290—38)

1. In a starting system for an engine, a starter motor circuit, a starter motor and a source of current in the circuit, a normally open switch for controlling the circuit, a second circuit from the source of current to the switch, manual means in the second circuit to close the normally open switch, a normally closed switch in the second circuit, a cylinder in communication with the intake manifold of the engine, a spring actuated piston in the cylinder and having connection with the normally closed switch to open the same upon

the starting of the motor, a third circuit connected with the second circuit, means in the third circuit for holding the normally closed switch in



open position, and the last mentioned means being releasable when the manual means is actuated to close the normally closed switch.

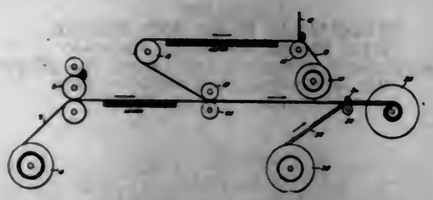
1,924,634
VALVE FOR INFLATION PURPOSES
Thomas Beasley, London, England
Application February 10, 1933, Serial No. 656,174, and in Great Britain May 4, 1931
1 Claim. (Cl. 152—12)



A pitman for cooperation with the valve body of an inflation valve comprising a rod-like member formed at one end as a valve element, the member being formed at the opposite end with a longitudinally ranging bore and with a transverse communicating bore opening through the side of the member, the longitudinal bore being formed above the transverse bore with a valve seat, and a valve operating in the longitudinal bore and cooperating with said seat, the valve closing against pressure through the transverse bore into the longitudinal bore and opening against opposite pressure, the bottom of the longitudinal bore serving as a limit for the opening movement of the valve.

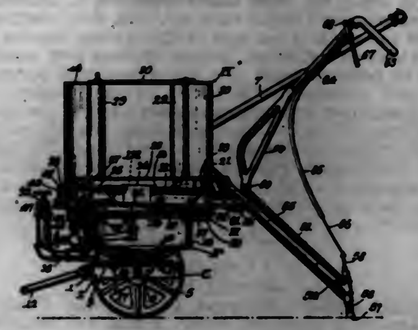
1,924,635
METHOD OF MAKING A LAMINATED FABRIC
Malcolm Buffington, Roselle Park, N. J., assignor to Lee Fabrics, Inc., Newark, N. J., a corporation of Delaware
Application December 16, 1929
Serial No. 414,523
11 Claims. (Cl. 18—59)

1. A method of making a laminated fabric which comprises applying a thin coating of a rubber compound on one side of a textile top fabric of imitation tapestry carpet, applying a thin coating of a rubber compound on one side of a backing material, at least one of said rubber compounds being adapted to form sponge rubber,



joining the coated sides of the said top fabric and backing material and vulcanizing said rubber compounds to permanently attach the said textile top fabric to the said backing material, forming a composite structure united by a thin layer of sponge rubber.

1,924,636
CRACK FILLER
Russell C. Burket, Pottsville, Pa.
Application March 31, 1932. Serial No. 602,325
10 Claims. (Cl. 94—39)

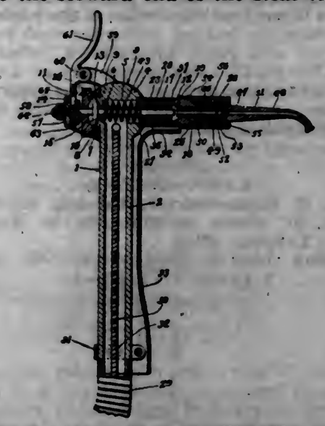


1. In a device for filling cracks in roads, a wheel-mounted carriage; a superstructure including a container for the crack-filling material, a conduit extended downwardly from the container, and a nozzle on the conduit and shaped to ride in the crack to be filled and to follow the crack automatically; and means for mounting the superstructure on the carriage for rotation, relative to said carriage, about a substantially vertical axis, to permit the nozzle to ride in and follow the crack to be filled.

1,924,637
DISCHARGE MECHANISM FOR FLUID UNDER HIGH PRESSURE
Webster I. Carpenter, Norfolk, Va.
Application November 16, 1931
Serial No. 575,376
15 Claims. (Cl. 251—27)

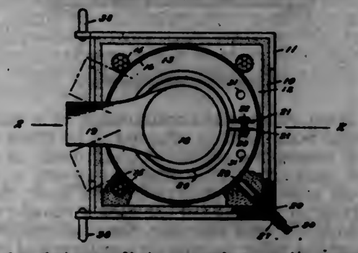
12. In a discharge mechanism for fluids under high compression a valvular device for controlling discharge therefrom and including a valve housing having a valve seat, a compressible and elastic valve cooperating with said seat and a valve stem, and an adjustable combined valve adjusting and outlet member within the housing

and arranged in endwise opposed relation with respect to the forward end of the stem to be en-



gaged by the latter for controlling the extent of the surface of the valve engaging said seat.

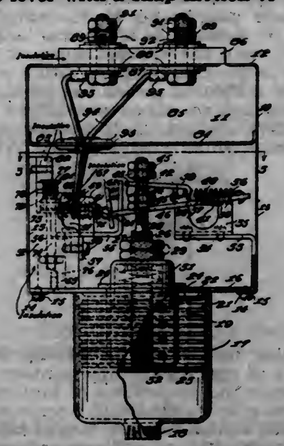
1,924,638
INTERMEDIATE POURING UNIT
Monroe S. Clawson, Upper Montclair, N. J.
Application February 12, 1931. Serial No. 515,618
6 Claims. (Cl. 219—44)



1. An intermediate pouring unit comprising the combination of a heat insulating casing, a rotatably mounted refractory member therein having a cavity, a crucible located within said cavity, a resistance coil within the cavity surrounding the crucible for maintaining the contents of the latter at a substantially uniform temperature, a carrier connected with the casing, means on the carrier connected with the casing for tilting the same to effect pouring of the contents of the crucible.

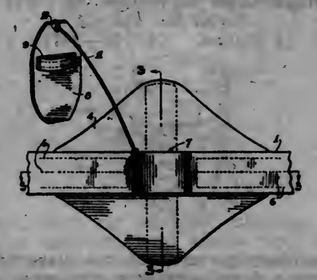
1,924,639
SWITCH MECHANISM
Lewis Lament Corcoran, Sellersville, Pa., assignor to United States Gauge Company, New York, N. Y., a corporation of Pennsylvania
Application September 28, 1928
Serial No. 309,077
9 Claims. (Cl. 200—67)

8. An electric switch comprising a pivoted contact lever carrying electric contacts, stationary contacts engaged thereby in one position of said contact lever, a pivoted actuating lever, a biasing spring connecting said levers to form a spring toggle and moving said contact lever with a snap action when said actuating lever moves said spring across the line of pivots of said levers, a pivoted intermediate lever, a lost-motion connection between said actuating lever and said intermediate lever, and means to move said intermediate lever with a snap motion to thereby ac-



tuate said actuating and contact levers with a snap motion.

1,924,640
LUMBAGO BELT
Rudolph Draves, Bonners Ferry, Idaho
Application June 2, 1930. Serial No. 459,007
1 Claim. (Cl. 128—95)



An orthopedic appliance comprising: a pad, a rib on the inner surface of said pad adapted to fit along the spinal column, a belt passing over the outer surface of said pad and secured at spaced points on the rear surface of said pad so as to form a loop on the outer face of the pad between its opposite edges, and a key adapted to be removably inserted in said loop to increase the pressure of said pad against the spinal column, said key having a projecting lug secured thereto between its ends, the lug being adapted to engage said loop in one position of the key to act as a stop to limit the insertion of the key in said loop, and also being adapted to be placed within said loop to further increase the pressure of said pad against the spinal column.

1,924,641
SAFETY RAZOR
Auguste Dupeyron, Paris, France
Application April 1, 1931, Serial No. 526,904, and in France October 17, 1930
3 Claims. (Cl. 30—12)

1. In a safety razor of the type in which the handle thereof constitutes a storage container for the blade and blade-mounting parts when detached therefrom, a tubular handle of normal size and length adapted for detachable association with the blade-mounting parts and hav-

ing one end provided with a detachable closure; a blade, blade guard and blade-clamping cap each of which elements is of normal length but of less width than the internal diameter of said handle, said blade-clamping cap being provided with integral stiffening means comprising a series of closely spaced alined projections constituting a central, substantially co-extensive, interrupted longitudinal rib projecting from the



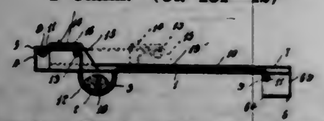
blade-engaging face, said guard being provided with a series of openings complementary to and accommodating the projections of said cap, and said blade being reticulated with a series of closely spaced slots complementary to and accommodating the projections of said cap and providing transverse flexibility in said blade; said blade, guard and cap, when assembled, having such overall dimensions as to be receivable within said tubular handle of normal size and length.

1,924,642
SANITARY GARMENT
Jacob G. Frieman, Los Angeles, Calif.
Application November 11, 1930
Serial No. 494,943
2 Claims. (Cl. 128—287)



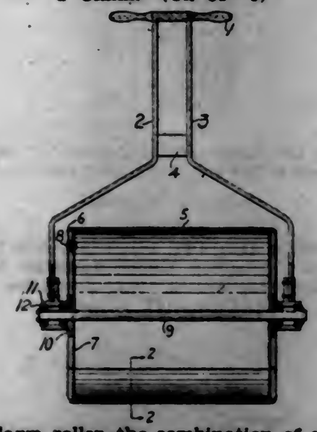
2. A sanitary garment of the class described comprising a body portion composed of a back section of stretchable material and a front section of rubberized material, said front section being formed of complemental sections connected by a seam line extending centrally longitudinally from the back section to the front, a pocket of rubberized material let into the said seam of the front section and adapted to receive an absorptive pad, and spaced tie members extending from the back to the front whereby the front of the garment is supported from the back.

1,924,643
MANUALLY OPERABLE CIGARETTE ROLLING MACHINE
Paul Gay, Trion, Ga.
Application July 23, 1931. Serial No. 552,720
1 Claim. (Cl. 131—42)



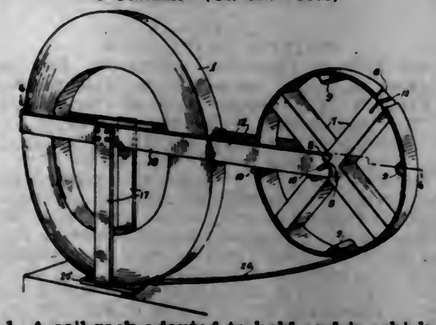
A cigarette rolling machine comprising a plate, a pocket formed transversely of the length of the plate and intermediate the ends thereof, the pocket also constituting means for supporting one end of the plate upwardly from a plane surface, brackets integral with the opposite end of the plate, said brackets constituting a second supporting means for holding the plate upwardly from and parallel with a plane surface, guide members formed with the sides of the plate, a U-shaped carriage having outturned end portions slidable in said guide members, a roller journaled in the parallel legs of the carriage, an apron overlying the plate and pocket and engaging over the roller, and means for securing the ends of the apron against movement.

1,924,644
LAWN ROLLER
William H. Himmelberger, Lansing, Mich., assignor, by mesne assignments, to Harry E. Moore, Lansing, Mich.
Application June 5, 1931. Serial No. 542,413
1 Claim. (Cl. 55—6)



In a lawn roller, the combination of a hollow cylindrical body portion adapted to be filled with water, a removable plug, circular heads in said cylinder, said plug being inserted in one of said heads, an axis passing through the body, bearings carried by the ends of the axis, a handle connected with the said bearings, the said cylindrical portion of the roller having circumferential edges turned inwardly, and the said circular heads having welded joints with said cylindrical portion extending circumferentially within and adjacent to the said inwardly turned end edges of said cylindrical portion.

1,924,645
DISPLAY RACK AND REEL
Louis A. Macklanburg, Oklahoma City, Okla.
Application April 16, 1931. Serial No. 530,666
3 Claims. (Cl. 242—55.2)



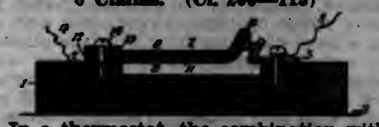
1. A coil rack adapted to hold and in which a coil of elongated material can rotate, a reel, a reel support adapted to nest over the coil in the coil rack and means for associating the reel support with the coil rack to permit reeling material directly from a coil in the coil rack.

1,924,646
VEHICLE DRIVING MECHANISM
Arthur I. Marcum, Oakland, Calif., assignor, by mesne assignments, to Automotive Engineering Corporation, a corporation of Delaware
Application June 7, 1926, Serial No. 114,250
Renewed January 23, 1933
2 Claims. (Cl. 180—22)



1. In a road vehicle, a frame, a pair of axles, at least one of which is driven, arranged relatively close together adjacent one end of said frame, a pair of wheels on each of said axles, a pair of springs on either side of the frame, each of which is pivoted to the frame at one end and connected to its corresponding axle at a point spaced from said one end, means interconnecting the individual springs of each pair to permit a relatively large vertical oscillation of one axle with respect to the other and endless traction members surrounding the adjacent wheels on the same side of the vehicle, said traction members being provided with a slight amount of slack to permit said vertical oscillation of one axle with respect to the other and to transmit a part of the driving force of one wheel to the other when substantial slipping of a driven wheel occurs.

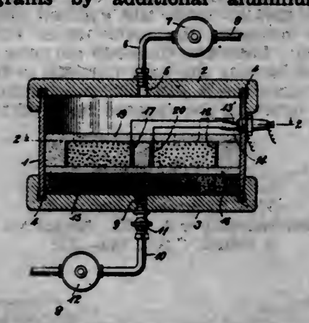
1,924,647
THERMOSTAT
Clarence E. McGregor, Conshohocken, Pa., assignor to Service Station Equipment Company, Conshohocken, Pa., a corporation of Delaware
Application February 14, 1931. Serial No. 515,671
6 Claims. (Cl. 200—113)



1. In a thermostat, the combination with opposed bimetallic members, each including two laminæ of metals having different coefficients of expansion under changes of temperature; of means supporting said members at one end thereof in spaced relation, with their laminæ having the same coefficient of expansion toward each other; and means mechanically connecting the opposite ends of said members; whereby bending stresses induced in said members by ambient temperatures counteract each other and tend to hold said thermostat stationary, and said thermostat is movable solely by internal changes of temperature.

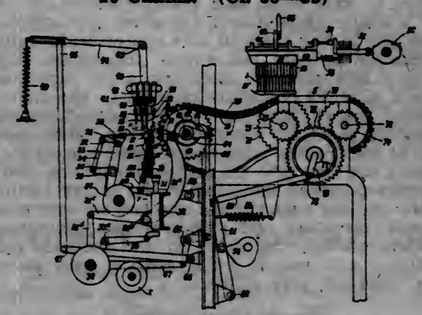
1,924,648
PREFORMED ABRASIVE AND PROCESS OF PRODUCING THE SAME
Edmund S. Merriam, Marietta, Ohio
Application July 18, 1932. Serial No. 623,305
4 Claims. (Cl. 51—278)

1. A process for producing pre-formed aluminous abrasives comprising bonding aluminum oxide grains by additional aluminum oxide



formed in situ by the burning of metallic aluminum in an atmposhere of oxygen.

1,924,649
WARP KNITTING MACHINE
James Morton, West Lothian, Scotland
Application May 6, 1930, Serial No. 450,283, and in Great Britain June 6, 1929
16 Claims. (Cl. 66—85)



1. A warp knitting machine including knitting needles supplied with warps and having combined therewith means for supplying to said needles in parallel formation and in succession wefts to be bound thereby to said warps, so as to produce a fabric, and means for forming in said warps loops which appear as pile on the surface of said fabric.

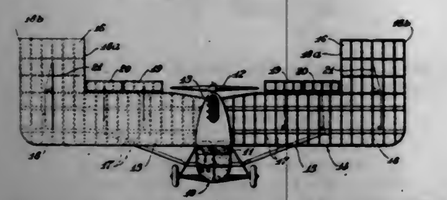
1,924,650
SIDING MATERIAL
Gerald B. Payne, Scranton, Pa., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass., a corporation of Massachusetts
Application October 4, 1929. Serial No. 397,278
3 Claims. (Cl. 20—5)



1. A side wall covering simulating clapboard, comprising a plurality of overlying courses of asphalt coated and grit surfaced felt base elements of maximum thickness at their lower edges, having body and tongue portions, the length of the body portion being at least three times the exposed depth thereof, the tongues extending upwardly from an intermediate point of the up-

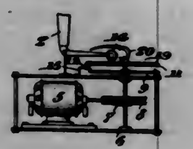
per edge of the body portion for a distance substantially greater than the exposed depths of the body portions, the elements in the same course being flush and the body portions of each course overlapping the body portions of the subjacent course for a distance substantially less than the depth of the exposed body portions.

1,924,651
AIRCRAFT
Otto Richter, Gary, Ind.
Application September 2, 1932. Serial No. 631,573
1 Claim. (Cl. 244—12)



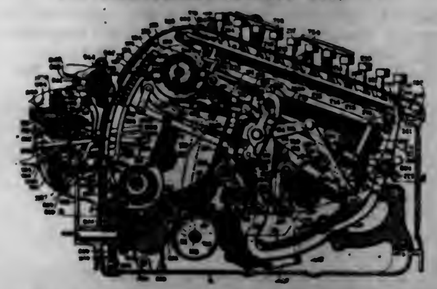
In an aircraft, a body, a wing structure supported by said body, said wing structure including a center section and including side sections arranged at the sides of said center section and extending in part rearwardly therefrom, each of said side sections including a rib structure having a reflex curvature relative to the curvature of the rib structure in the center section, elevators pivotally mounted on the center section at the trailing edge thereof and one on each side of the fore and aft center line of the craft, ailerons pivotally mounted in the center section at the trailing edge thereof and one between each of said elevators and side sections, directional rudders pivotally mounted on and atop the side sections, and means for operating said elevators, ailerons, and rudders.

1,924,652
COMBINED WEIGHING SCALE AND LOUD SPEAKER
Raul Lopes Rivas and Emilio Iribarne, Buenos Aires, Argentina, assignors to Juan Bossart, Buenos Aires, Argentina
Application December 13, 1930, Serial No. 502,235, and in Argentina June 3, 1930
17 Claims. (Cl. 274—9)



8. In a weighing apparatus, an electrical circuit adapted to be closed during the weighing operation, a motor in the electrical circuit, a turntable adapted to be driven by the motor, said turntable being adapted to rotate a sound record, a pick-up device for reproducing the sound on the sound record, automatic means for transferring the pick-up device from the end of the sound record to the beginning of the sound record, and means for continuing actuation of the motor for a predetermined interval of time not exceeding the time required for one revolution of the turntable irrespective of the length of time that the weighing device is operated.

1,924,653
CALCULATING MACHINE
William S. Gubelmann, Buffalo, N. Y.
Original application September 19, 1912, Serial No. 721,141. Divided and this application June 3, 1926. Serial No. 113,438
239 Claims. (Cl. 235—60)



17. In a calculating machine, the combination of a plurality of carriers arranged side by side and having a normal forward and backward movement, a series of number type from zero to nine arranged on each carrier, a ruling type arranged on each carrier in advance of the zero type, a series of movable stops adapted to arrest the backward movement of said carriers when arriving at zero position, a universal bar adapted to engage said stops and move the same into an inoperative position for permitting said carriers to move backwardly one step from zero position into ruling position, and a ruling key operatively related to said universal bar.

24. In a calculating machine, the combination of the type, the platen adapted to support the record sheet, a rocking support which carries said platen toward and from the printing position, a driven gear wheel connected with said platen, a driving gear wheel pivoted concentrically with said support and meshing with said driven gear wheel, means for turning said driving gear wheel and for rocking said support, and a detent device which prevents backward turning of said driving gear wheel.

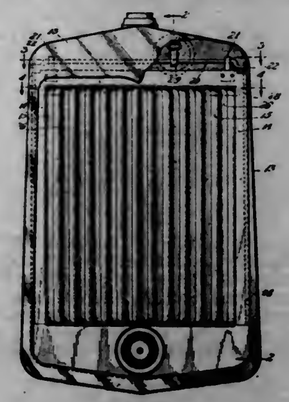
36. In a calculating machine, the combination of a platen, means for turning the platen forwardly, a pinion operatively connected with said platen, a gear wheel meshing with the pinion, a return spring connected with said gear wheel and adapted to be wound up during the forward turning movement of the platen, a detent pawl engaging with said pinion, a releasing device for disengaging said pawl from said pinion, a shift key, and means for coupling said key to said releasing device after a predetermined forward movement of said platen.

72. In a calculating machine, the combination of a carriage; a paper supporting platen mounted on said carriage; a plurality of type arranged side by side and adapted to print parallel longitudinal rows of numbers, and key operated column selecting means whereby the carriage may be shifted back and forth at will for printing in one column or another on the paper comprising parts associated with the carriage and movable in opposite direction, an actuator, and means for coupling said actuator with the reversely movable parts to move them in either direction.

117. In a calculating machine, the combination of number printing mechanism having type segments and an operating mechanism, a typewriting mechanism having type bars and operating keys a platen co-operating with said type segments and bars, a carriage supporting said platen, two sets of escapement teeth arranged on said carriage, one set being widely spaced and the other narrowly spaced, number escapement dogs adapted to engage alternately with said widely spaced teeth, letter escapement dogs adapted to engage alternately with said narrowly spaced teeth, means whereby said number escapement dogs are actuated by the operating mechanism means whereby the letter escapement dogs are actuated by the letter keys, means whereby the letter escapement dogs are rendered inoperative when the number printing mechanism is operated, and a latch which holds the letter escapement dogs in an inoperative position while the number printing mechanism is operated and until the typewriting mechanism is again operated.

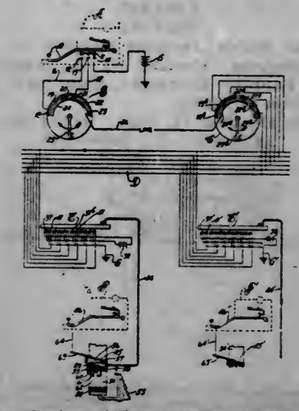
220. In a printing machine comprising an item printing mechanism having printing segments, an item counting and numbering mechanism adapted to count and number the items printed and comprising a set of printing wheels; in combination, means for bodily moving said item printing segments to take an impression therefrom, and means for bodily moving said set of printing wheels simultaneously with said segments to take an impression therefrom.

1,924,654
COOLING AIR FLOW CONTROL FOR VEHICLE-ENGINES
Edgar G. Petersen, Chicago, Ill., assignor to Pines Winterfront Company, Chicago, Ill., a corporation of Delaware
Application March 19, 1930. Serial No. 436,942
5 Claims. (Cl. 189—61)



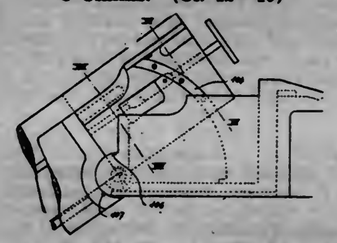
1. In a radiator shutter the combination of a support with a pair of louver plates, each of said louver plates being formed with a plurality of parallel openings between diagonally extending flanges struck out of the body of said plates, and the ends of said flanges being joined to the plates from their edges by an integral part of the flanges and plates, the flanges of one louver plate extending diagonally in one direction, and the flanges of the other louver plate extending diagonally in a transverse direction, and means for regulating the flow of air between said flanges, comprising operative mechanical connection between said louver plates to move the edges of the flanges of one plate relative to the edges of the flanges of the other plate, said shutter being closed by bringing the edges of the flanges into engagement with each other.

1,924,655
MULTIPLE TYPEWRITER SYSTEM
John H. Powers, Chicago, Ill., assignor to Robert E. Ward, Chicago, Ill.
Application January 30, 1931. Serial No. 512,292
5 Claims. (Cl. 178—33)



1. In a device of the class described, a series of movable valve plates having holes adapted to form registering series according to the arrangement of plates, a solenoid tending to force each plate to a normally inoperative position, a solenoid adapted when energized to force the plate in the opposite direction, and means for actuating a different mechanism with each line of holes thus brought into registration.

1,924,656
SUPERPOSED BARREL, BREECH-LOADING FIREARM
Léon Ribe, Saint-Etienne (Loire), France
Application April 9, 1931, Serial No. 528,924, and in France April 14, 1930
8 Claims. (Cl. 42—40)



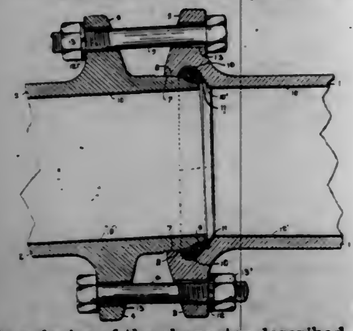
1. In a firearm of the character described, cooperating depressions and projections provided in the breech and on the lateral faces of the barrels, the active contacting faces of said depressions and projections being co-axial with the geometrical axis around which the barrels pivot with respect to the breech, said faces being disposed rearwardly of said axis to prevent any forward motion of the barrels with respect to the breech; lateral forwardly projecting, substantially semi-circular portions on said breech, co-axial with said axis; a member removably attached under the barrels, said member being bifurcated at its rear end and thus forming lateral portions on the barrels, said portions being provided with arcuate recesses adapted for contacting cooperation with said semi-circular portions on the breech; a tooth at the rear end of said member; and cocking rods rectilinearly movable within the breech, said rods being

adapted to cock the percussion mechanism of the arm, and said rods being arranged so as to be actuated by said tooth during the drop-down motion of the barrels.

1,924,657
PIPING

Leonard W. Saine, Jackson Heights, N. Y., and Anton Hansen, Newark, N. J., assignors to Central Foundry Company, New York, N. Y., a corporation of Maine

Application October 13, 1930. Serial No. 488,229
3 Claims. (Cl. 285—134)

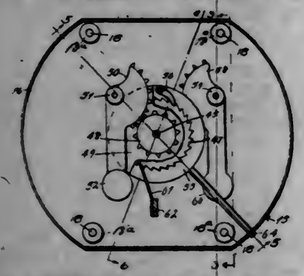


1. In a device of the character described, a pipe section having a male end and a pipe section having a female end, the male end having a substantially smooth outer face portion tapering toward its free end and varying only slightly from parallelism with the axis of the bore of the male end, the female end being provided adjacent its free end with a substantially smooth inner face portion slidably telescoped with the tapering outer face portion of the male end and being of less diameter than the largest diameter of the last mentioned face portion, means for forcing the said face portions of the male and female ends together with a jamming fit, one of the pipe ends being provided with an annular recessed portion adjacent its jammed face portion, and packing seated against said recessed portion, the free end of the male end terminating short of a wall of the female end to expose the packing to the pressure of the fluid conveyed by the pipe sections.

1,924,658
BRAKE AND MOTOR TESTER

James E. Sanders, Ardmore, Pa., assignor of one-fourth to Guy T. Holcombe

Application February 26, 1931. Serial No. 518,311
2 Claims. (Cl. 264—1)

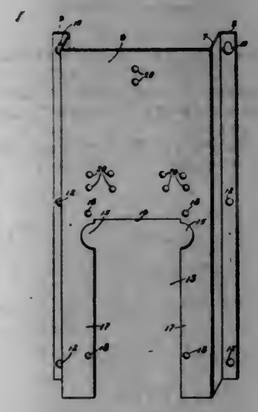


1. A motor and brake tester for installation in a motor vehicle, comprising normally stationary ratchet means, pointers movable over an arbitrary scale, pawls associated with said pointers and coacting with the ratchet means to hold the pointers in different positions, pinions connected with the pointers, an intermediate gear meshing with one of said pinions, segmental gears, one meshing with a pinion and the other with the intermediate gear, weights carried by said segmental gears for swinging movement in the line of travel of the vehicle and movable by the acceleration or deceleration of the vehicle for transmitting motion to the pointers, and means to permit manual rotation of the ratchet means to return the weights and the pointers to their normal positions.

1,924,659
METER AND SWITCH MOUNTING SUPPORT

George W. Schafer, Louisville, Ky., assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky., a corporation of Kentucky

Application September 30, 1929
Serial No. 396,104
3 Claims. (Cl. 247—2)



3. As a new article of manufacture a meter and switch box mounting support comprising a panel portion having an enlarged working opening adjacent the bottom thereof and combined spacing and mounting means at opposite sides of the panel providing an unobstructed open way behind the panel and between said spacing means.

1,924,660
PULP MAKING PROCESS

Max Skolnik, Chicago, Ill., assignor to Skolnik Patents Corporation, Chicago, Ill., a corporation of Indiana

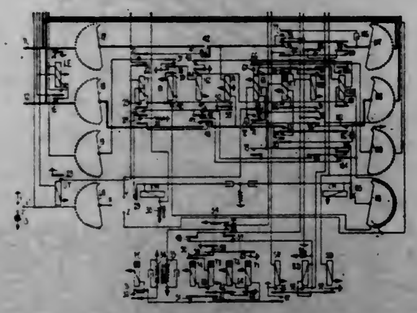
Application November 30, 1931
Serial No. 577,968
4 Claims. (Cl. 92—14)

1. The method of producing paper pulp from straw which consists in loading a bale of straw into a carrier, removing the ties from said bale, passing said carrier and straw through a caustic treatment tank at a definite rate predetermined to loosen the straw fibres and effect a minimum amount of the glutinous material in the straw, passing said carrier and straw through a washing tank to wash the entrained caustic chemical from the straw, dumping the straw from said carrier and mixing the straw with fresh water, and passing the mixture to finished pulp storage.

1,924,661
TELEPHONE SYSTEM

Rudolph F. Stehlik, Chicago, Ill., assignor to Associated Telephone and Telegraph Company, Chicago, Ill.

Application May 4, 1931, Serial No. 534,856, and in Great Britain May 21, 1930
12 Claims. (Cl. 179—18)

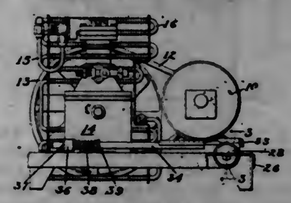


1. In a telephone system, a group of finder switches, a start circuit normally extending to all of said finder switches, and means for opening said start circuit during the time when one of said finder switches is in hunting condition.

1,924,662
REFRIGERATING APPARATUS

Otto M. Summers, Dayton, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a corporation of Ohio

Continuation of application Serial No. 336,444, January 31, 1929. This application February 28, 1931. Serial No. 519,055
9 Claims. (Cl. 308—12)



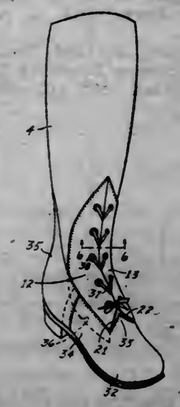
1. In a motor-compressor unit, a driving member, a driven member, a support for said members, one or more rubber rollers, an inclined track, said rubber rollers and said inclined track cooperating to adjustably support one of said members upon said support, and means to maintain the bodily movement of said last mentioned member in substantially a straight line comprising a guide rod attached to said member and a guide spool attached to said support.

1,924,663
FOOTWEAR AND METHOD OF MAKING SAME

John E. Taber, South Bend, Ind., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana

Application August 21, 1931. Serial No. 558,547
8 Claims. (Cl. 36—4)

1. In an article of rubber footwear the combination of an upper having a cut out area at the front, an expansion pocket member located in and of an area to be contained within the cut out area, and a pair of opposed laterally extending



wings joined along their inner edges to the front of the expansion pocket member and vulcanized along their outer edges to the upper at the outer sides of said cut out area.

1,924,664
PRODUCTION OF ANTHRAQUINONE DERIVATIVES

Robert Fraser Thomson and Rhys Jenkin Loveluck, Grangemouth, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

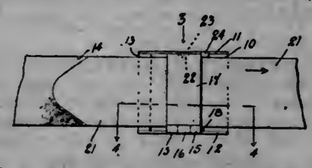
No Drawing. Application September 30, 1932, Serial No. 635,608, and in Great Britain October 22, 1931
19 Claims. (Cl. 260—60)

1. A process for producing 1-amino-2-chloroanthraquinone which comprises reacting upon 1,2-dichloro-anthraquinone with an aryl-sulfonamide to produce 1-arylsulfonamido-2-chloroanthraquinone, and hydrolyzing the latter to split off the aryl-sulfonyl group.

1,924,665
BELT BUCKLE

Harold N. Trout and Fielding S. Ellis, Norristown, Pa., assignors of one-third to Harold B. Slemmer, Lederach, Pa.

Application July 30, 1932. Serial No. 626,310
5 Claims. (Cl. 24—191)



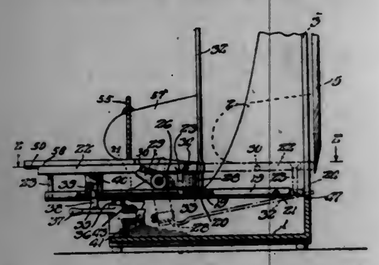
4. A belt buckle comprising a body, means to fix one belt end against the rear face of the body, and means swinging transversely of the body and belt to clamp said belt end, and the other belt end in superposed contact between said clamping means and the body, in such manner that the stress exerted upon said belt in use tends to move said superposed ends in opposite directions.

CARNEGIE LIBRARY OF ATLANTA

1,924,666
SLICING MACHINE

Wilhelmus Adrianus van Berkel, Clarens, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana

Application January 18, 1930, Serial No. 421,624, and in Germany February 21, 1929
18 Claims. (Cl. 146—103)

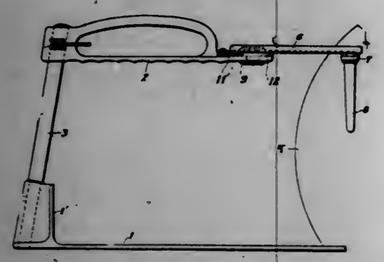


1. In a slicing machine the combination with a frame, of a slicing knife pivotally supported on said frame, a carriage mounted for reciprocation on said frame and adapted to occupy a position adjacent the cutting plane of said knife and also a position remote therefrom, a plate pivoted to said frame, and cooperating means connected to said plate and table for moving said plate into operative position adjacent and above one edge of said carriage as said carriage is moved to said remote position, and means for automatically moving said plate into an inoperative position out of the path of movement of said table when said table is moved to its position adjacent said cutting plane.

1,924,667
SLICING MACHINE

Johannes Cornelis van Berkel, Copenhagen, Denmark, assignor to Naamlooze Vennootschap Maatschappij tot Veraardiging van Snijmachines volgens Van Berkel's Patent en van andere Werktuigen, Rotterdam, Netherlands, a limited liability company of the Netherlands

Application December 12, 1928, Serial No. 325,456, and in Great Britain January 9, 1928
21 Claims. (Cl. 146—217)

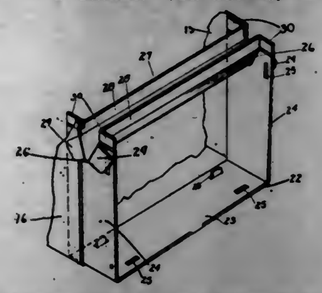


1. In a slicing machine having a substance support, a clamp at the forward end of said support, an arm pivoted at one side of and adjacent the rear of said support about an upright axis to swing over said support, a member depending from said arm to engage the side of the substance sliced, mechanism for rotating said arm, actuating means for said mechanism remote from said arm, and latch mechanism for holding said actuating means in adjusted position.

1,924,668
BANKING SWITCH CONSTRUCTION

George B. Wadsworth, Covington, Ky.

Application June 14, 1930. Serial No. 461,090
4 Claims. (Cl. 247—2)

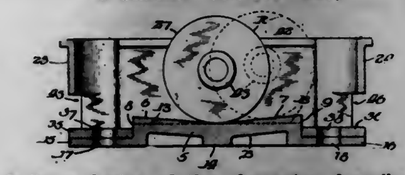


1. In combination a pair of switch boxes having entirely open adjacent sides, flanged covers for said boxes, a connecting channel extending between the open sides of the boxes, complementary lug and slot means on said channel and the adjacent portions of the boxes for removably connecting said channel and boxes and a cover for the channel frictionally engaging both boxes exteriorly and having a way therein for receiving the adjacent flanges of the covers of both boxes.

1,924,669
ROLLER SIDE BEARING

Henry F. Wardwell and Walter C. Bladin, Chicago, Ill., assignors to W. & B. Company, Chicago, Ill., a corporation of Illinois

Application December 18, 1930
Serial No. 503,179
8 Claims. (Cl. 308—226)



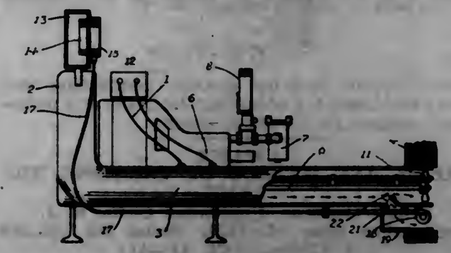
3. In a device of the character described, in combination, a housing including a separable bottom member having extended end portion, a side-wall member having transverse base sections seated upon said extended end portions, and a raised roller runway on said bottom member, said base sections of said side-wall member fixedly abutting the end surfaces of said runway.

1,924,670
OIL BURNER CONSTRUCTION

Walter W. Williams, Bloomington, and Ira E. McCabe, Chicago, Ill.

Application March 27, 1925. Serial No. 18,654
4 Claims. (Cl. 158—28)

1. In a fluid fuel burner construction including an electric motor operating a fuel pump and fan blower with an air conduit leading from the blower to the furnace and a fuel pipe leading from the pump passing through the conduit terminating in a nozzle at the open end of said conduit, a double unit safety switch in the motor circuit, one unit having an actuating thermal element to make and break the circuit through said unit upon ignition and failure of the burner flame, respectively, said thermal unit including a tubular member connected to said unit and terminating in a coil arranged on the exterior of the air conduit adjacent the furnace end thereof, a housing about said coil having an open end adapted to enter the furnace, and means upon the air conduit for deflecting a portion of the air therefrom to pass through the said housing over the coil into the furnace; the other element comprising a manually operable switch to close the

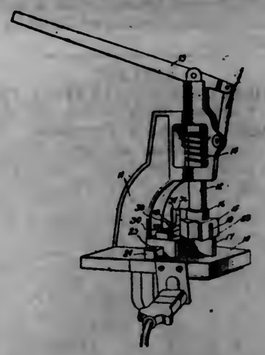


motor circuit therethrough, a thermal device for holding it in closed position, a shunt circuit, a heating element in said shunt circuit adapted, when the main circuit is broken through the first unit, to receive the full current of the motor circuit to operate the heating element to release the latter switch to break the motor circuit.

1,924,671
COLLAR POINT PRESSING MACHINE

Harry J. Witham, Philadelphia, Pa.

Application July 14, 1932. Serial No. 622,365
12 Claims. (Cl. 62—9)



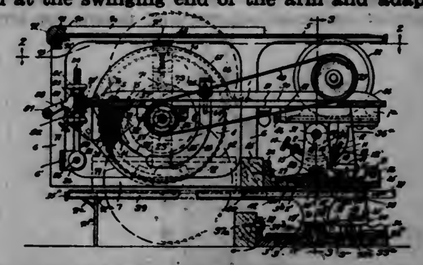
1. A collar point pressing machine comprising a table having an upstanding rib, a movable presser having parts coacting upon opposite sides of the rib, blocks set at an angle to the rib, and means to move the presser, and means to move the blocks toward the rib in consonance with the movement of the presser.

1,924,672
COMBINATION CIRCULAR SAW MITER MACHINE

Ladislaus Zachara, Bremerton, Wash.

Application May 31, 1930. Serial No. 458,116
21 Claims. (Cl. 143—6)

1. In a machine of the character described, a bed plate, a gauge rail fixed rigidly along one edge thereof, a vertical pivot fixed in the bed plate, a base plate resting upon the bed plate and rotatably adjustable about the vertical pivot, a rigid arm hingedly mounted on the base plate and extending substantially horizontally across the said gauge rail and movable vertically at its extended end, a circular saw operatively mounted at the swinging end of the arm and adapted



by downward swinging action of the latter to cut through pieces placed against the gauge rail.

1,924,673
PUMP FOR CENTRALIZED LUBRICATING SYSTEMS

Oscar U. Zerk, Chicago, Ill., assignor to Alemite Corporation, Chicago, Ill., a corporation of Delaware

Application November 9, 1929. Serial No. 406,116
14 Claims. (Cl. 184—37)



5. In combination, a cylinder frame having a cylinder, a piston in the cylinder, an operating rod, a universal joint connecting the rod and the piston, a tubular extension for said rod, said tubular extension having a packing frictionally engaging the rod and carrying at its remote end a universal joint.

10. In combination with an automobile having a frame and an axle, a pump having a cylinder mounted on the frame, a piston in the cylinder, a shock absorber between frame and axle, said shock absorber having a lever adapted to be swung pivotally by relative motion of frame and axle, and a connecting rod between said lever and said piston for operating said pump.

1,924,674
LUBRICATING APPARATUS

Oscar U. Zerk, Chicago, Ill., assignor to Alemite Corporation, Chicago, Ill., a corporation of Delaware

Application May 19, 1930. Serial No. 453,499
7 Claims. (Cl. 184—7)

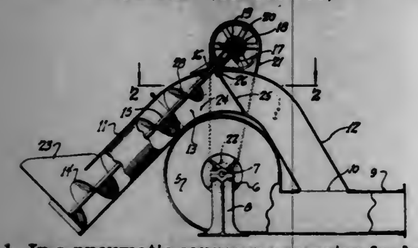
1. In lubricating apparatus of the class described, a tubular body having two chambers therein, one of said chambers having a valve seat at each end thereof, a valve located in said chamber between said valve seats, said valve being of slightly smaller diameter than said chamber, a spring for holding said valve against one of said seats, a conduit connecting said two chambers, a resilient body of compressible homogeneous material in the other chamber, means for

connecting said first named chamber with a source of lubricant supply, and means for con-



necting said second chamber with a part requiring lubrication.

1,924,675
PNEUMATIC CONVEYER
George Bernert, Milwaukee, Wis.
Application May 8, 1931. Serial No. 535,998
5 Claims. (Cl. 302—50)



1. In a pneumatic conveyer apparatus for handling material having a tendency to pack, a blower fan, a conveying duct leading from the fan, a mechanical conveyer casing inclined upwardly with its receiving end lowermost and its discharge end portion directed bodily toward the conveying duct to gradually change the direction of movement of the material being conveyed through the mechanical conveyer casing, a screw in the mechanical conveyer casing for lifting material through the casing to be discharged into the conveying duct, a drive shaft for the screw having one end projecting through the outer wall of the discharge end portion of the casing, the extreme discharge end portion of the casing beyond the point of egress of the shaft being abruptly increased in width to form shoulders, a valve member positioned in said portion of increased width, and means hingedly mounting the valve member at a point adjacent the point of egress of the shaft through the inclined casing wall whereby the valve normally hangs in closed position and in the direct path of materials lifted by the screw and with its side edges engaging said shoulders.

1,924,676
HAIR CLIPPERS
David B. Brown, Bellingham, Wash., assignor to Wahl Clipper Corporation, Sterling, Ill., a corporation of Illinois
Application May 16, 1930. Serial No. 452,975
7 Claims. (Cl. 30—1)

1. In a clipper having a casing, a movable blade, a stationary blade, mounting means on which said stationary blade is adjustable to vary its projection beyond the front edge of the movable blade, an operating lever mounted on the casing in spaced relation to the stationary blade, and a



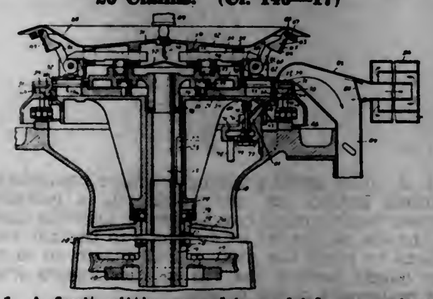
curved spring member directly connecting said lever and blade for adjusting the blade and pressing it against its mounting means.

1,924,677
FABRIC AND METHOD OF TREATING THE SAME
Ernest Cadgène, Englewood Cliffs, N. J.
Application June 23, 1931. Serial No. 546,369
2 Claims. (Cl. 41—41)



1. As a new article of manufacture, a textile fabric in which fibers forming a portion thereof are removed, a decorative composition implanted on said fabric around said portion and combining therewith to simulate embroidery, and another fabric of a different characteristic from the first-named fabric secured thereto in registry with said portion.

1,924,678
APPARATUS FOR PITTING FRUIT
Nathan A. Curtiss, Ridgewood, N. J., assignor to The Hills Brothers Company, New York, N. Y., a corporation of New York
Application October 10, 1930. Serial No. 487,753
26 Claims. (Cl. 146—17)

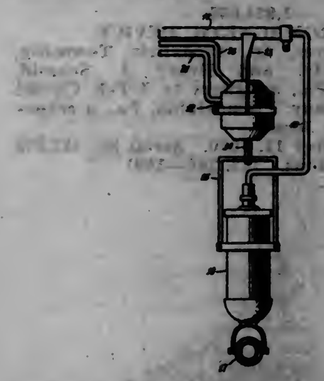


1. A fruit pitting machine which comprises a continuously advancing conveyor having a plurality of pockets for fruit to be pitted, means associated with each pocket for centering the fruit therein, centering the pit, and ejecting the pit, and intermittently actuated pneumatic means independent of the conveyor and disposed at one point in the path of travel thereof for ejecting the pitted fruit from the pockets.

1,924,679
MICROPHONE CONTROL
Carl Dreher, Los Angeles, Calif., assignor to Radio-Keith-Orpheum Corporation, a corporation of Maryland
Application March 24, 1931. Serial No. 524,854
5 Claims. (Cl. 179—146)

1. A microphone mounting comprising a microphone, an amplifier connected to said micro-

phone, a hanger for supporting said microphone, a boom, an operating motor attached to said boom by the field structure thereof, and adapted to support said hanger by the shaft thereof, a control motor the field windings of which are connected to the field windings of the operating motor, and the armature windings of which are connected to the armature windings of said oper-



ating motor, a knob mounted upon the shaft of said control motor, a pointer mounted upon said knob, and a stationary scale for indicating the angle of the armature of said control motor, and electrical connections for the windings of said control and operating motors whereby movement of said control motor will be duplicated by a movement of said operating motor.

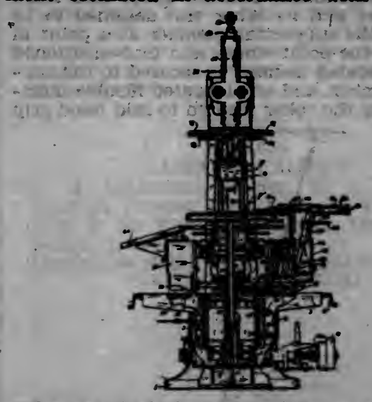
1,924,680
COIL FOR INDUCTION FURNACES
Wilhelm Esmarch, Berlin-Halensee, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
Application March 6, 1931, Serial No. 520,503, and in Germany March 20, 1930
2 Claims. (Cl. 219—47)



1. An induction furnace coil having multiple convolutions, each including a tubular water cooled section and a metallic band in series, the tubular sections being disposed on the outside of the coil and arranged to substantially surround the furnace.

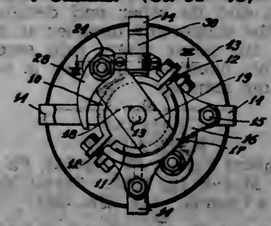
1,924,681
BOX MACHINE
Theodore A. Federwitz, Philadelphia, Pa., assignor to Stokes and Smith Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 6, 1931. Serial No. 522,739
15 Claims. (Cl. 93—54)

1. A box machine comprising form block structure, a supporting member therefor having a rack portion, a cam, and means for transmitting motion from said cam to effect reciprocation of said supporting member comprising a gear segment oscillated in accordance with said cam,



and a gear train between said gear segment and said rack portion of said supporting member.

1,924,682
TUBE END CLEANER
Frank F. Fisher, Detroit, Mich.
Application January 29, 1931. Serial No. 512,626
7 Claims. (Cl. 51—73)



1. A portable tube end polishing device comprising a rotatable structure having a plurality of members formed thereon and rotatable therewith, a pair of confronting clamping members connected to each of said members, an abrasive element disposed between and clamped by each pair of clamping members, resilient means disposed between said first members and the adjacent clamping members, and means for actuating said clamps to grip said abrasive element and said resilient means.

1,924,683
ARM PROPELLED SWING
Rolland Fletcher, Des Moines, Iowa
Application August 17, 1931. Serial No. 557,442
5 Claims. (Cl. 155—65)

1. In a device of the class described, a seat member, a flexible elongated member designed to have its upper end secured to a supporting member and its lower end secured to said seat member, a second flexible elongated member designed to have its upper end secured to the supporting member at a distance from said first-mentioned flexible elongated member and its lower end secured to said seat member, a hollow hand grip member slidably embracing said first-mentioned flexible elongated member, a roller secured to said hand grip member, a hollow hand grip member slidably embracing said second flexible elongated member, a roller secured to said last-mentioned hand grip member, an elongated flexible member engaging the roller on said first-mentioned hand grip member secured at one of its

ends to said first-mentioned flexible member at a point a substantial distance above said hand grip member and its other end designed to be secured to the supporting member at a point in advance of the point where said first-mentioned flexible elongated member is secured to the supporting member, and an elongated flexible member engaging the roller secured to said hand grip



member on said second-mentioned flexible elongated member having one end secured to said second flexible elongated member at a point a substantial distance above said hand grip member thereon and its other end designed to be secured to the supporting member at a point in advance of the point where said second-mentioned flexible elongated member is secured to the supporting member.

1,924,684
RAIL JOINT
Robert Faries, St. Davids, Pa.
Application March 19, 1932. Serial No. 599,925
4 Claims. (Cl. 238—244)

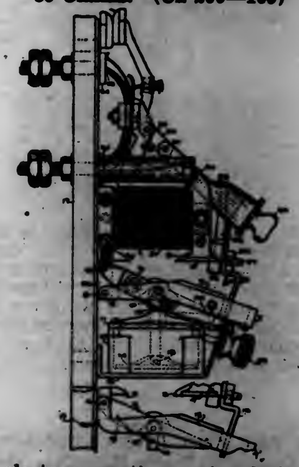


1. In a rail joint, a pair of joint bars lapping the contiguous ends of the adjoining rail sections and fitting the hollows at opposite sides thereof, said bars being formed with vertically spaced longitudinal ribs to bear against opposite sides of the vertical center webs of the rail sections, and having their lower edges upwardly recessed adjacent opposite ends; transverse clamp bolts passing through the ends of the joint bars to secure the latter to the rail sections; and spring shims interposed beneath the heads of the bolts, said shims having inward wedge projections to engage between the base flanges of the rail sections and the upwardly recessed portions of the bottom edges of the joint bars.

1,924,685
ANÆSTHETIC COMPOSITION
Samuel D. Goldberg, Brooklyn, N. Y., assignor to Novocol Chemical Mfg. Co. Inc., Brooklyn, N. Y., a corporation of New York
No Drawing. Application December 6, 1930
Serial No. 500,671
10 Claims. (Cl. 167—52)

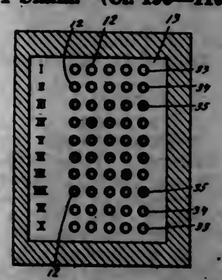
1. An anæsthetic solution for hypodermic injection containing a solvent, an acid containing anæsthetic material for local anæsthetic, a vaso-constricting material and a buffer including a weak acid to dissolve and maintain said vaso-constricting material in solution and to modify the pH of the solution, said solution being substantially stable and having a pH value in a range from approximately 5.7 up to approximately neutral.

1,924,686
ELECTROMAGNETIC DEVICE
Herbert C. Graves, Jr., Tredyffrin Township, Chester County, and Henry J. Schmid, Philadelphia, Pa., assignors to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of New Jersey
Application October 11, 1930. Serial No. 487,978
39 Claims. (Cl. 200—169)



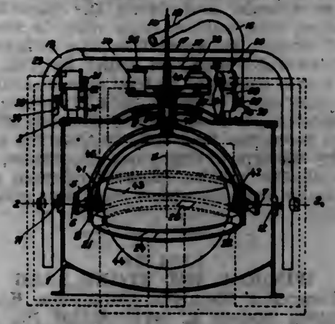
1. An electromagnetic tripping device comprising a coil, a tripping system comprising a movable armature and time-delay structure associated therewith responsive to passage through said coil of current of magnitudes lying within a predetermined range, and means for increasing the lag of said tripping system when the magnitude of said current lies in the upper portion of said range comprising magnetizable structure forming a path in shunt to said armature when said current is of said last-named magnitude.

1,924,687
ART OF REFINING HYDROCARBONS
Eugene C. Herthel, Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application November 1, 1929. Serial No. 403,987
1 Claim. (Cl. 196—110)



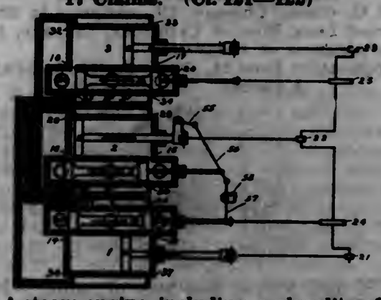
In apparatus for cracking hydrocarbon oils comprising a battery of heating tubes connected in parallel arranged in a fire-heated furnace, orifices adjacent the inlet ends of each of the heating tubes forming the battery severally restricting the cross-section of each of the heating tubes at that point, said orifices being smaller near the center of the path of travel of heating gases over the heating tubes than near the lateral boundaries of said path.

1,924,688
GYROSCOPIC COMPASS
Hermann Anschütz-Kaempfe, Munich, Germany, assignor to Nederlandsche Technische Handel Maatschappij "Giro."
Application September 1, 1928, Serial No. 303,582, and in Germany September 8, 1927
5 Claims. (Cl. 33—226)



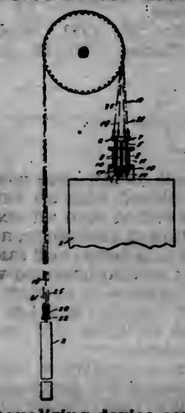
1. A gyroscopic compass, comprising a support, a gyroscopic system supported thereby for movement about the three principal axes, a follow-up system carried by the support including a member mounted for movement about the three principal axes, follow-up motors operatively connected to the follow-up system for moving the member about the three axes, and a controlling mechanism for said motors including electrical elements in the circuits of the motors carried by the gyroscopic system, second electrical elements in the said circuits carried by the follow-up system, and a single conducting medium extending between the first and second elements and included in the said circuits, whereby the motors restore the elements and member to predetermined normal position relatively to the gyroscopic system upon relative displacement between them and said system.

1,924,689
STEAM ENGINE
Ronald Frank Knight, Ramsey, N. J.
Application October 8, 1930. Serial No. 487,233
17 Claims. (Cl. 121—122)



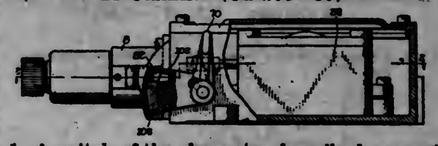
1. A steam engine, including, a plurality of cylinders, each cylinder having, a valve chamber, a main port connecting said chamber with the cylinder bore, an auxiliary port connecting said chamber with the bore of another cylinder, a valve in said chamber for controlling said main port and for also controlling both admission and cut-off at said auxiliary port, and means for actuating said valve.

1,924,690
CABLE EQUALIZER
Nils O. Lindstrom, Nutley, N. J., and Lars Gottfrid Persson, New York, N. Y., assignors to A. B. See Elevator Company, Inc., a corporation of Delaware
Application July 30, 1930. Serial No. 471,664
5 Claims. (Cl. 187—1)



1. A cable equalizing device comprising a plate mounted on an anchor member to pivot about its center, a plurality of whippletrees adapted to be secured to the ends of cables, anchor members for each of said whippletrees extending through said plate, and abutments on the ends of said anchor members adapted to abut against the plate.

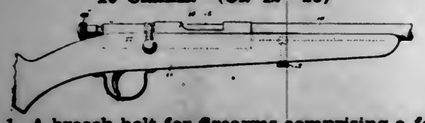
1,924,691
SAFETY SWITCH
John Lofgren, Chicago, Ill., assignor to Raico Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 2, 1931. Serial No. 506,052
14 Claims. (Cl. 200—50)



1. A switch of the character described, comprising switch mechanism having a shiftable switch member, a substantially explosion-proof casing enclosing the switch mechanism and the member, operating connections for said member passing through the wall of the casing, a second casing wholly enclosing the inner casing, said second casing including a socket and a connection for electrical conduits, and a shiftable control handle mounted on the exterior of said second casing and having a controlled member passing through the wall of said second casing, and connections from said controlled member passing through the walls of said second casing to the switch-operating mechanism passing through the wall of the inner casing, a plug adapted to be inserted in the socket,

said plug having an interlocking element, and a shiftable associated locking element mounted on the said second casing and adapted to make locking and unlocking contact with the lug on said plug, and connections from said shiftable locking element to the shiftable control handle on said second casing, said connections being constructed and arranged whereby to prevent the withdrawal of said plug when said shiftable handle is moved to throw the switch to closed position and permitting free withdrawal of said plug when the switch is thrown to open position.

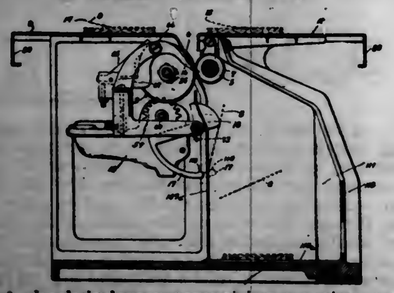
1,924,692
FIREARM
Crawford C. Loomis, Ilion, N. Y., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application May 28, 1931. Serial No. 540,641
10 Claims. (Cl. 42—16)



1. A breech bolt for firearms comprising a forward section provided with an extending tenon, a bolt handle provided with an aperture adapted to receive a portion of said tenon, a key, cooperating key-ways in said tenon and said handle aperture, a rearward section provided with an undercut adapted to receive a portion of said tenon and retain said handle and key thereon, and an assembly pin securing said rearward section in place on said tenon.

4. In a firearm, a receiver, a hollow cylindrical breech bolt mounted for longitudinal and rotational movement in said receiver, a striker in said breech bolt adapted for longitudinal movement therein from a "firing" position to a "fired" position and for rotational movement from "firing" position to a "safe" position, and means cooperating with said striker for preventing rotation of said bolt in said receiver when the striker is in "firing" position, but permitting such rotation when the striker is in "safe" position.

1,924,693
CHECK INDORSER
Walter H. Lyman and Paul F. Fischel, Chicago, Ill., assignors, by mesne assignments, to The International Check Endorser Co., Chicago, Ill., a corporation of Illinois
Application June 11, 1928. Serial No. 284,367
29 Claims. (Cl. 101—236)



1. A check indorser comprising a motor, a rotatable type cylinder, a driving clutch member driven by said motor, a driven clutch member carried by said cylinder, a rotatable cylindrical platen cooperating with said type cylinder, a pair of paper feed wheels at opposite ends of said type cylinder, respectively, and coaxial therewith, a pair of paper feed wheels coaxial with said cylindrical platen located at opposite ends thereof, rotatable therewith and driven from said first pair of feed wheels, respectively, means for holding said type cylinder against rotation and for holding said driven clutch member out of engagement with said driving clutch member released by the paper as it is advanced by said feed wheels, to release the type cylinder and permit the driven clutch member to engage the driving clutch member, means for yieldingly holding said platen feed wheels against said type cylinder feed wheels, the common tangent to said type cylinder and platen being substantially vertical whereby the checks as they pass between the type wheel and platen travel substantially in a vertical plane, two horizontal tables spaced horizontally from each other, for holding stacks of checks, lying in a plane above said type cylinder and platen, the space between said tables lying substantially directly above the line of contact between the type cylinder and platen, whereby sheets of paper may be passed through said space to the feed wheels, and means for turning each check into a horizontal plane and depositing it in a definite position after it is released from the feed rolls so that the side engaged by the type cylinder lies uppermost, whereby the checks will be stacked indorsed side up in the same order in which they were stacked on the table.

1,924,694
WINDOW AND STORE SASH
Lawrence Michaels, Covington, Ky.
Application March 4, 1931. Serial No. 520,046
7 Claims. (Cl. 20—56.4)



1. A sash comprising a rectangular frame member having a series of clamping levers spaced at intervals along the inside of said frame and having a limited movement pivotally relative to said frame, and a plurality of clamping jaw members of angular cross-sectional pattern each having a fulcrum engagement with said frame at the apex of its angle with one arm of the angle serving as a jaw to engage the outer face of a glass, and the other arm of its angle engaged by said clamping levers, and means to force said lever members into engagement with the respective clamping jaw members to clamp the glass in position relative to its frame member.

1,924,695
LOCK WASHER ASSEMBLY
Carl G. Olson, Chicago, Ill., assignor to Shakeproof Lock Washer Company, Chicago, Ill., a corporation of Delaware
Application June 24, 1931. Serial No. 546,540
4 Claims. (Cl. 151—37)

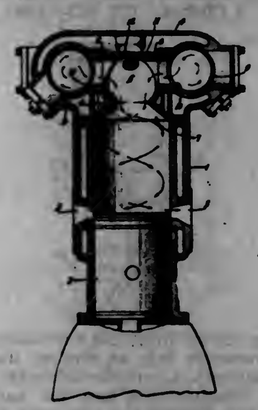


2. A lock washer assembly including a rotary clamping member having an annular groove of varying diameter provided on the clamping side thereof, the larger diameter of said groove being positioned at the clamping side of said clamping member, and a lock washer formed from flat spring stock including an annular body portion and marginal prongs extending therefrom, said washer being provided with a projection extending laterally of said body portion and adapted to be received by said annular groove.

1,924,696
MANUFACTURE OF DYES CONTAINING CHROMIUM AND THE RESULTING PRODUCT
Ernest Albert Sack, Neuilly-sur-Seine, France, assignor to Compagnie Nationale de Matieres Colorantes & Manufactures de Produits Chimiques du Nord Reunies, Etablissements Kuhlmann, Paris, France, a corporation of France
No Drawing. Application June 18, 1930, Serial No. 462,142, and in France November 13, 1929
8 Claims. (Cl. 260—12)

4. The manufacture of chromed dyes from red-blue chromium compounds of ortho-hydroxyazo dyes derived from 1-phenyl-3-methyl-5-pyrazolone and 1-amino-2-hydroxy-naphthalene-4-sulphonic acid, which consists in subjecting the same to the action of dilute sulphuric acid.

1,924,697
TWO-CYCLE ENGINE
Fred Glen Shoemaker, Ferndale, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a corporation of Delaware
Application February 6, 1931. Serial No. 513,850
7 Claims. (Cl. 123—59)



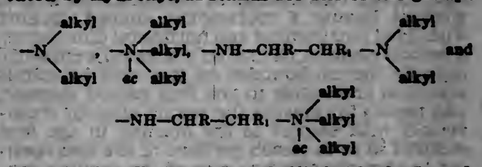
7. A two-cycle internal combustion engine having a cylinder and a reciprocatory piston, an outlet from the cylinder adapted to be uncovered by the piston near its outermost limit of movement, a head closing the top of the cylinder and embodying a combustion chamber having a restricted neck and a flaring mouth leading into the cylinder, a pair of laterally disposed entrance openings on opposite sides of the combustion chamber in overlapping offset relation, and a rotary valve controlling each entrance opening and permitting inflow for at least a portion of the time when the outlet is uncovered.

1,924,698
ALKYLATED ACIDYL POLYALKYLENE POLYAMINES
Wilhelm Neelmeier, Theodor Necken, and Hermann Friedrich, Leverkusen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline Works, Inc., New York, N. Y.
No Drawing. Application May 27, 1930, Serial No. 456,281, and in Germany June 5, 1929
10 Claims. (Cl. 260—124)

1. Alkylated condensation products from a higher fatty acid and a polyalkylene polyamine of the probable general formula:

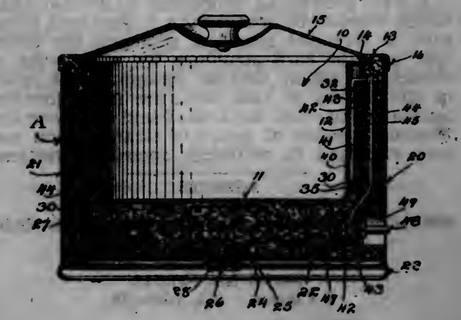
$$Y—CO—NH—CHR—CHR_1—NH—CHR—CHR_1—X$$

wherein R and R_1 stand for hydrogen or methyl, Y stands for an aliphatic hydrocarbon radical containing at least 9 carbon atoms which may contain double bonds and which may be substituted by hydroxyl, X stands for one of the groups



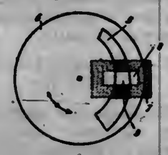
wherein the alkyl may be substituted by hydroxyl, and "ac" stands for a monovalent acidyl radical, said alkylated products being soluble in water and aqueous alkalies and acids and being valuable wetting and emulsifying agents.

1,924,699
HEAT INSULATED COOKING VESSEL
Alva T. Smith, Milwaukee, Wis., assignor to National Enameling & Stamping Company, Milwaukee, Wis.
Application November 18, 1931
Serial No. 575,832
5 Claims. (Cl. 219—44)



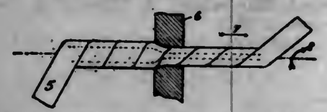
1. In a cooking vessel, an inner receptacle, an insulating band placed about the outer face of the receptacle, an insulating sheet arranged between the band and the receptacle terminal prongs including elongated body strips and right angular ends interposed between the band and the asbestos sheet and arranged one from the other, and an electric resistance wire coiled about the band with its convolutions spaced one from the other, one end of the wire being anchored to one terminal prong and the other end of the wire being anchored to the other terminal prong, the windings of the wire holding the prongs against shifting movement.

1,924,700
DIAPHRAGM FOR APPARATUS FOR PICTURE TELEGRAPHY
Hans Georg Thile, Berlin-Steglitz, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
Application April 5, 1930, Serial No. 441,790, and in Germany March 18, 1929
4 Claims. (Cl. 178—6)



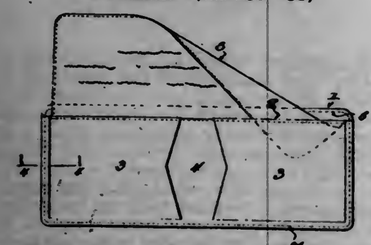
1. A diaphragm construction for defining a light beam comprising, in combination, a first element having a rectangular shaped opening with fixed longitudinal and horizontal dimensions, a second element having an elongated wedge-like opening therein bounded on two sides by spirals arranged transverse to the first named element, and means for moving the second element transversely with respect to the opening in the first element so as to screen portions of the first opening to vary the effective area of the opening provided by each of the elements by retaining one dimension fixed and the other variable.

1,924,701
PROCESS FOR PRODUCING FLEXIBLE SHAFTS
Hartwell W. Webb, Pleasant Plains, Staten Island, N. Y.
Application January 9, 1930. Serial No. 419,722
2 Claims. (Cl. 29—148)



1. The process of producing a flexible shaft which consists in producing a helical core structure of stranded material, reducing the diameter of said core structure by a drawing or stretching action thereby changing the pitch of the helices of said structure in a direction tending to parallel the axis of said structure and winding a series of layers of strands upon said core structure in relatively opposite directions.

1,924,702
BILL FOLD
Philip Wege, West Bend, Wis., assignor to Rolfs, Inc., West Bend, Wis.
Application November 25, 1931
Serial No. 577,212
3 Claims. (Cl. 150—38)



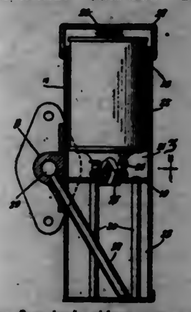
1. A billfold comprising inner and outer walls secured together along their ends and along one of their longitudinal edges to form a currency compartment, a dividing strip secured between the walls of said fold along its ends and lower longitudinal edge, and a flap secured to the upper longitudinal edge of one of the walls, said flap being free at its ends and lower longitudinal edge and extending over one side of the dividing strip to a point closely adjacent the lower edge of the same.

1,924,703
POWER TAKE-OFF MECHANISM
Fred D. Wilson, Harvey, Ill., assignor to Austin Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application November 7, 1927. Serial No. 231,692
4 Claims. (Cl. 180—14)



1. In a power take-off device having a speed reducing attachment, a clutch means therefor, a lever mounted in said attachment for operating said clutch means, guide members for an arm of said lever and provided with spaced openings, and means carried by said arm for engaging any selected openings for locking said lever.

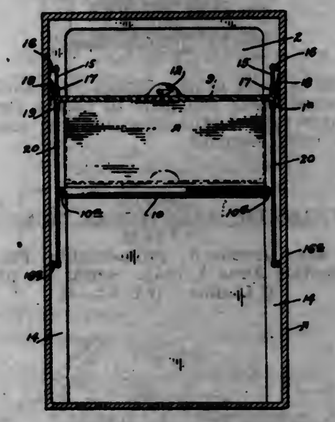
1,924,704
REMOVING CARBON DEPOSITS FROM INTERNAL COMBUSTION ENGINES
Earl Bartholomew, Detroit, Mich., assignor to Ethyl Gasoline Corporation, Detroit, Mich., a corporation of Delaware
Application June 25, 1931. Serial No. 546,812
4 Claims. (Cl. 123—198)



4. In a device for injecting a measured quantity of carbon remover into an engine, the combination of a support, a puncturable can, means for detachably holding said can on said support, means for puncturing the can, and a receptacle mounted below said support adapted to receive the entire contents of the can as it is punctured.

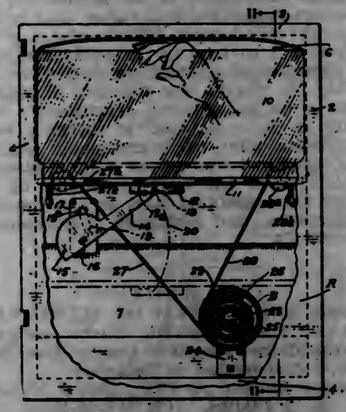
1,924,705
DRAFT SHIELD
Horace P. Brown, Oakland, Calif.; Clara B. Brown executrix of said Horace P. Brown, deceased
Application September 21, 1931
Serial No. 564,029
15 Claims. (Cl. 296—44)

1. In a device of the character described, a frame having a window opening formed therein and a pocket below the window opening, a pair of trackways one in each side of the window opening, a carriage vertically movable in each trackway, a cross rod connecting the carriages whereby they are raised or lowered in the trackways in unison, an extensible curtain in the



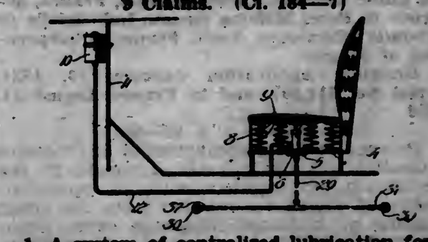
pocket, a connection between one end of the curtain and the cross rod whereby the curtain is raised or lowered in unison with the carriages, and means whereby vertical movement is imparted to the cross rod and curtain independently of the carriages.

1,924,706
WINDOW OPERATING MECHANISM
Horace P. Brown, Oakland, and Eugene D. Anderson, Alameda, Calif.; said Anderson assignor to said Brown; Clara B. Brown executrix of said Horace P. Brown, deceased
Application April 5, 1932. Serial No. 603,236
6 Claims. (Cl. 268—126)



1. In a window operating mechanism a window mounted for vertical movement, mechanically actuated means for lowering the window, said means also functioning as an adjustable stop to limit raising movement of the window, said means permitting direct manual lowering of the window by application of downward pressure on the window, and a common means for raising the window whether mechanically or manually lowered.

1,924,707
PUMP FOR LUBRICATING APPARATUS
Joseph Bystricky, Chicago, Ill., assignor to Alemite Corporation, Chicago, Ill., a corporation of Delaware
Application November 16, 1929
Serial No. 407,641
9 Claims. (Cl. 184—7)



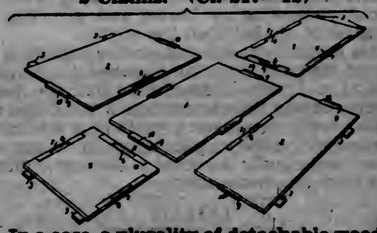
1. A system of centralized lubrication for use in automotive vehicles, comprising bearings to be lubricated, a reservoir containing lubricant, a resilient seat depressible upon application of weight in said vehicle, and a pump supplied with lubricant from said reservoir, said pump disposed within said seat and operatively connected therewith whereby movements of the seat operate the pump to force lubricant to the bearings.

1,924,708
PACKAGING OF EDIBLE OILS
Walter G. Christiansen, Bloomfield, and Francis R. Chappell, Passaic, N. J., assignors to E. R. Squibb & Sons., New York, N. Y., a corporation of New York
No Drawing. Application January 17, 1930
Serial No. 421,590
4 Claims. (Cl. 99—11)

1. Process for the manufacture of dichromates by treating an alkali metal chromate in the aqueous solution together with an equivalent quantity of substances selected from the group consisting of hydrated chromium oxide, chromium oxide, metallic chromium, chromium alloys, and mixtures containing chromium, at temperature above 100° C. under pressure, with gases containing oxygen.

3. A package comprising cod-liver oil in an opaque glass container interiorly coated with an oil-insoluble film containing an antioxidant.

1,924,709
PACKING CASE
Charles Gaston Coulbeaux, Levallois-Perret, France
Application March 28, 1930, Serial No. 439,556, and in France January 14, 1930
2 Claims. (Cl. 217—12)



1. In a case, a plurality of detachable wood panels forming the sides and bottoms of said case, some of said panels provided with tenons and adjacent panels having cooperating mortises, the mortises being constituted each by a notch made in the edge of the panel and closed by a metallic

strip going deep into the wood at its ends beyond the ends of the notch, the breadth of the notches being equal to the thickness of the panels.

1,924,710
PROCESS FOR THE MANUFACTURE OF DICHROMATES

Jules Emile Demant, Cuise-Lamotte, France, assignor to Bozel Maletra Societe Industrielle de Produits Chimiques, Paris, France, a corporation of France

No Drawing. Application January 30, 1931, Serial No. 512,507, and in France August 14, 1930

14 Claims. (Cl. 23—56)

1. Process for the manufacture of dichromates by treating an alkali metal chromate in the aqueous solution together with an equivalent quantity of substances selected from the group consisting of hydrated chromium oxide, chromium oxide, metallic chromium, chromium alloys, and mixtures containing chromium, at a temperature above 100° C. under pressure, with gases containing oxygen.

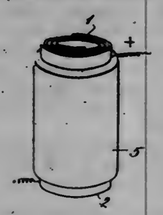
12. Process for the manufacture of dichromates which consists of preparing a chromate frit by an alkaline oxidizing operation of a substance containing chromium in the presence of a basic alkaline earth metal compound used as a diluent, treating the said chromate frit together with an equivalent quantity of a substance containing metallic chromium, in the aqueous solution at a temperature above 100° C., under pressure, with a gas containing oxygen and simultaneously neutralizing said basic alkaline earth metal compound.

1,924,711
ELECTRICAL CONDENSER

Louis Edenburg, New York, N. Y.

Application January 25, 1928. Serial No. 249,276

8 Claims. (Cl. 175—315)



1. An electric condenser comprising a pair of strips of aluminum foil to be of opposite polarity, isolated conductive strips between the first named strips, and insulation comprising one or more strips of fibrous material to separate the conductive strips from one another, such strips and insulation being rolled into form, impregnated with a liquid consisting of borax and glycerin, and evacuated of air between the strips.

7. An electrolytic condenser comprising a plurality of strips of absorbent material interleaved with a pair of strips of aluminum foil; the method of impregnating the assembly in a hot liquid electrolytic mixture composed solely of glycerine and borax, expelling the surplus liquid by compression and electrolytically forming a dielectric film on one of said aluminum strips.

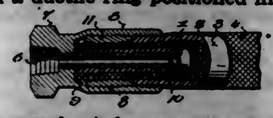
1,924,712
HOSE COUPLING

Arthur A. Eisenman, Manitowoc, Wis.

Application June 9, 1932. Serial No. 616,244

4 Claims. (Cl. 285—84)

1. In combination with a non-metallic, flexible, reinforced hose having the end of its cover cut away to expose a portion of the reinforcement; a coupling shell extending over the exposed reinforcement and a portion of the hose cover, and a ductile ring positioned in said shell



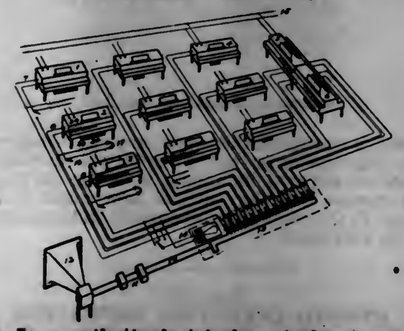
over the exposed reinforcement, said shell being compressed upon the hose to clamp the cover and force said ductile ring into the interstices of said reinforcement.

1,924,713
SYNTHETIC ELECTRICAL MUSICAL SYSTEM

Ivan Eremeeff, Philadelphia, Pa.

Application June 4, 1932. Serial No. 615,307

6 Claims. (Cl. 84—1)



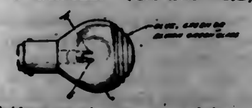
1. In a synthetic electrical musical system comprising a centralized distant generator which supplies pulsating electric current to a plurality of independent electrical musical instruments, means for producing a plurality of pulsating electric currents of uniform wave forms, whose frequencies correspond to the frequencies of the tones of an audible musical range, said pulsating electric currents having definite phase relationships between each other to avoid overlapping, which produces additional frequencies, means for supplying the mixers of a plurality of said independent electrical musical instruments with a plurality of pulsating electric currents, each of said currents being predeterminedly utilized in each of said instruments as a fundamental, as the fractions of the first harmonics of corresponding fundamentals, and as the harmonics, sub-harmonics, and multiples of corresponding fundamentals.

1,924,714
METHOD AND SYSTEM OF ILLUMINATION

Robert N. Falge, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a corporation of Delaware

Application August 26, 1929. Serial No. 388,403

2 Claims. (Cl. 240—1.1)



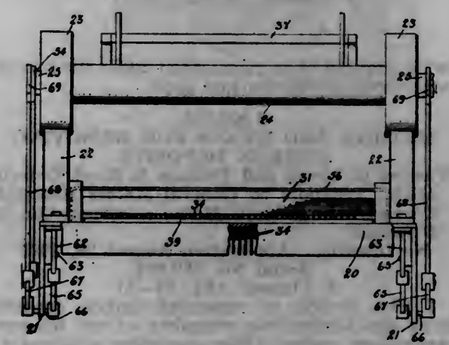
1. A lighting system comprising a source of electric current of substantially fixed voltage, a circuit, a lamp having a filament designed to operate at such current density and temperature below the usual rated capacity of the filament material as will cause it to emit light having an excess of red rays, and a ray filter adapted to absorb the excess red rays and transmit substantially white light.

1,924,715
TUFTING MACHINE

John B. Farrell, Philadelphia, Pa.

Application August 2, 1932. Serial No. 627,349

12 Claims. (Cl. 112—79)



1. A tufting machine comprising a vertically reciprocatable needle bar, a horizontally reciprocatable hook bar, hooks carried by said bar, said hooks being provided with slots, cutters partly positioned in the slots and having arcuate movement from a fixed center, means to drive the cutters, and means to simultaneously reciprocate the hook bar and the needle bar.

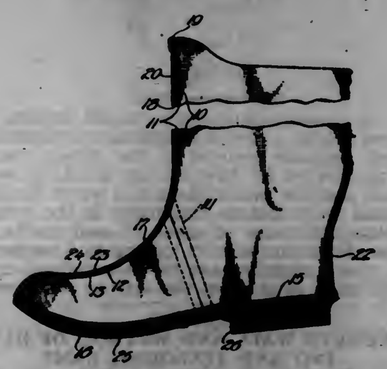
1,924,716
FOOTWEAR AND METHOD OF MAKING SAME

Conrad Ferrettie, Mishawaka, Ind., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana

Application December 26, 1929

Serial No. 416,335

2 Claims. (Cl. 36—4)



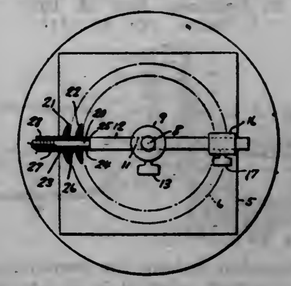
1. A rubber boot having a rubber wall of relatively fine cellular construction with a layer of fabric on each side thereof, each layer of fabric having a layer of solid rubber thereon at the side next to the outer side of the boot.

1,924,717
GASKET CUTTER

Raymond A. Hall, Fort Valley, Ga.

Application February 25, 1932. Serial No. 595,198

3 Claims. (Cl. 164—82)



1. The combination with a gasket cutter including an axially rotatable member, a transverse cutter bar carried thereby, and a plurality of cutter disks adjustable on the cutter bar, of a plurality of washers for interposition on the bar between the cutter disks for adjustably spacing them and between the disks and a portion of the bar for spacing the disks from the portion, and nut means threaded on the bar for maintaining the washers and disks in adjusted positions, said disks being convex concave and capable of being substantially nested for cutting a very narrow gasket, the concave sides of the disks being based radially inwardly with respect to the cutter bar to facilitate the operation of the cutter and cut cleanly.

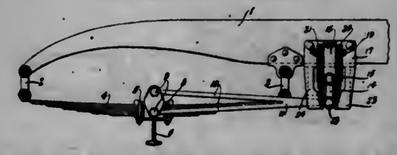
1,924,718
ANTISHIMMY DEVICE

George E. A. Hallett, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a corporation of Delaware

Application December 23, 1929

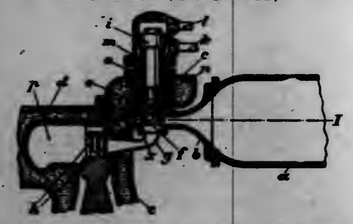
Serial No. 416,121

8 Claims. (Cl. 267—67)



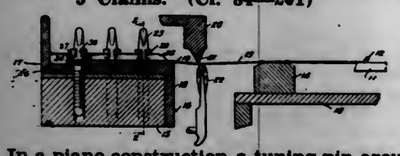
1. Means to eliminate steering wheel shimmy, including in combination with a frame, an axle carrying swivelled steering wheels, a load supporting spring between the axle and frame, a reach arm connected at one end with the axle, a swinging shackle pivotally connected at one end with the opposite end of said arm, and pivotally connected at its opposite end with a fixed part of the frame, leaf springs carried by the frame and projecting on opposite sides of the shackle for contact with the arm end thereof to offer yielding resistance to swinging movement of the shackle, and fixed abutments for the springs to limit their deflection within predetermined limits and thereafter rigidly resist movement of the shackle.

1,924,719
ARRANGEMENT OF NOZZLE VALVE FOR EXPLOSION TURBINES
Hans Holzwarth, Duesseldorf, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif., a corporation of Delaware
Application June 27, 1928, Serial No. 288,591, and in Germany July 12, 1927
1 Claim. (Cl. 60—41)



In an explosion turbine, the combination of an explosion chamber adapted to be provided with inlet mechanism at one end thereof, and having a reduced discharge end opposite the inlet end, defined in part by substantially parallel opposite walls, the distance between such walls being considerably less than the minimum diameter of the body of the chamber, a valve seat in one of said walls, a nozzle communicating with the discharge end of the explosion chamber through said valve seat and adapted to receive the explosion gases generated in said chamber, a nozzle valve extending into and through said reduced end perpendicularly to said parallel walls and having a bottom face cooperating with said valve seat to close the communication between the nozzle and explosion chamber, the valve being so formed that in the closed position no pressure sufficient to open the same can be exerted thereon by the exploded gases, the distance between said parallel walls being no greater than the lift of the valve, so that when the valve is in retracted position it is completely withdrawn from such discharge end and affords unobstructed passage for the gases from the main body of the explosion chamber into the nozzle.

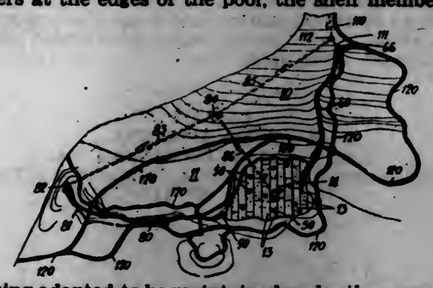
1,924,720
PIANO CONSTRUCTION
Frank W. Kringel, Los Angeles, Calif.
Application March 21, 1932. Serial No. 600,311
5 Claims. (Cl. 84—201)



1. In a piano construction a tuning pin around which a piano string is wrapped, a structure for receiving the tuning pin which structure includes a wrest plank and a mounting plate, said structure being characterized by providing a support for the tuning pin upon opposite sides of its string.

1,924,721
WATERCOURSE, POOL, AND LIKE CONSTRUCTION AND METHOD OF LANDSCAPING AND PREPARING SAME
Frederic H. Leubuscher, Verona, N. J.
Application March 24, 1932. Serial No. 600,847
14 Claims. (Cl. 61—1)

1. In an artificial pond construction, a deformable metal liner configured to the terrain, the liner being extended to form flanged shelf members at the edges of the pool, the shelf members



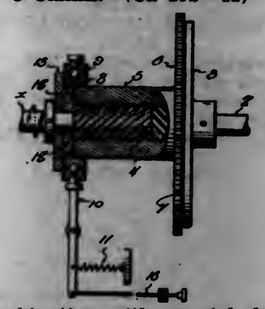
being adapted to be maintained under the normal water level of the finished pond.

1,924,722
METHOD AND MEANS FOR REMOVING CARBON DEPOSITS
Wheeler G. Lovell and Thomas A. Boyd, Detroit, Mich., assignors to General Motors Research Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application August 28, 1929
Serial No. 389,069
8 Claims. (Cl. 87—5)

1. The process of removing carbon deposits from the combustion chamber of an internal combustion engine which comprises applying to the carbon deposit an aliphatic amide which removes varnish, and removing the carbon deposit.

8. A composition of matter for removing carbon deposits from internal combustion engines comprising diethyl formamide, benzol and alcohol.

1,924,723
AUTOMATIC CLUTCH
Alexander J. Nowak, Milwaukee, Wis.
Application May 9, 1932. Serial No. 610,005
6 Claims. (Cl. 192—41)

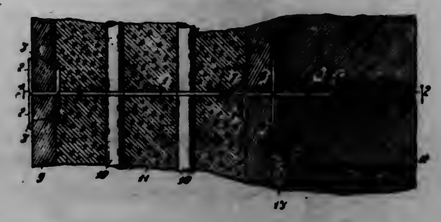


1. In combination with coaxial driving and driven shafts, a clutch mechanism comprising, a clutch member secured to the driven shaft, a worm carried by the driving shaft, a second clutch member mounted on said worm for longitudinal reciprocative movement in the event of relative difference of speed of said shafts, and means for automatically locking said reciprocating clutch member against longitudinal movement when rotation of the driving shaft ceases.

1,924,724
CONCRETE WALL AND METHOD OF BUILDING AND FINISHING SAME
Harry B. Olney, East Chicago, Ind., assignor to Charles M. Reed, East Chicago, Ind.
Application February 15, 1932. Serial No. 592,914
14 Claims. (Cl. 72—30)

1. The method of building brick veneered concrete walls which consists in erecting wall forms

in spaced relation, applying a tie member to said forms to hold them in said spaced relation and which tie member includes an end extension, pouring concrete between the forms and applying veneering brick and mortar in place along one face of the wall so that said end portion of the tie is anchored in the mortar between certain courses of said brick and ties said brick to said wall.



1,924,725
ALUMINUM ALLOYS
Howard J. Rowe, Lakewood, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application September 21, 1932
Serial No. 634,172
1 Claim. (Cl. 75—1)

A metallic alloy consisting of 5 per cent by weight of silicon, 1.3 per cent by weight of copper, 0.5 per cent by weight of magnesium, and 0.8 per cent by weight of nickel, the balance being aluminum.

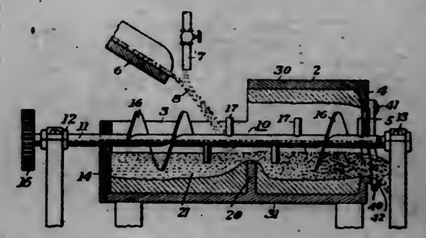
1,924,726
ALUMINUM ALLOY
Howard J. Rowe, Lakewood, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Original application September 21, 1932, Serial No. 634,172. Divided and this application November 30, 1932. Serial No. 645,128
2 Claims. (Cl. 75—1)

1. A metallic alloy consisting of 3.0 to 8.0 per cent by weight of silicon, 0.5 to 3.0 per cent by weight of copper, 0.2 to 1.5 per cent by weight of magnesium, 0.3 to 2.0 per cent by weight of manganese, and 0.3 to 3.0 per cent by weight of nickel, the total weight of the nickel and manganese together not exceeding 4.0 per cent by weight of the total alloy, the balance being substantially aluminum.

1,924,727
ALUMINUM ALLOY
Howard J. Rowe, Lakewood, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Original application September 21, 1932, Serial No. 634,172. Divided and this application November 30, 1932. Serial No. 645,129
2 Claims. (Cl. 75—1)

1. A metallic alloy consisting of 3.0 to 8.0 per cent by weight of silicon, 0.5 to 3.0 per cent by weight of copper, 0.2 to 1.5 per cent by weight of magnesium, and 0.3 to 2.0 per cent by weight of manganese, the balance being substantially aluminum.

1,924,728
TREATMENT OF SLAG
Mathias Ovrom Sem, Buffalo, N. Y., assignor to Tracy Bartholomew, Pittsburgh, Pa.
Application February 24, 1930, Serial No. 430,584, and in Norway February 27, 1929
9 Claims. (Cl. 49—77.5)

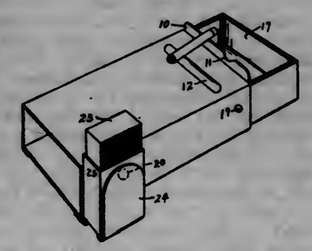


1. The process of treating molten slag, which comprises introducing molten slag and water into a foaming apparatus, agitating substantially the entire body of molten slag to produce foam, and solidifying the discharged foam to form a porous solid body.

1,924,729
ALUMINUM ALLOY
Ludwig J. Weber, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Original application September 21, 1932, Serial No. 634,150. Divided and this application November 30, 1932. Serial No. 645,131
3 Claims. (Cl. 75—1)

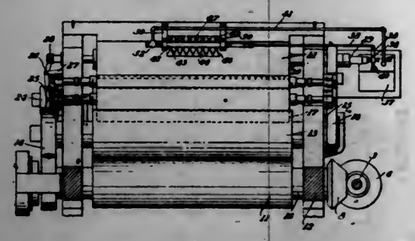
1. A metallic alloy consisting of 7.0 to 15.0 per cent by weight of zinc, 0.1 to 1.5 per cent by weight of manganese, 0.2 to 2.5 per cent by weight of magnesium, and 0.5 to 2.5 per cent by weight of copper, the balance being substantially aluminum.

1,924,730
COMBINED CIGARETTE, MATCH, AND ASH HOLDER
Walter J. Wirth, Indianapolis, Ind.
Application April 26, 1932. Serial No. 607,572
4 Claims. (Cl. 131—51)



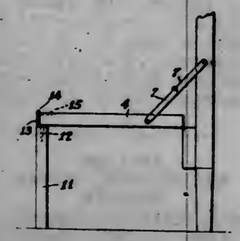
1. In a device for smokers, a drawer containing an ash receiving compartment, a case open at both ends in which the drawer is slidingly assembled to be drawn out at either end of the case and at one of said ends to uncover the ash compartment, a flange turned up from the case at the end next to the ash compartment formed as a cigarette holder and ash scraper and a rib on the case near the flange parallel with the flange to hold the wet end of a partly smoked cigarette out of contact with the case.

1,924,731
SUPPLY MECHANISM
Jacob C. Barnes, Pittsburgh, Pa., assignor to P-G Publishing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 27, 1932. Serial No. 624,914
8 Claims. (Cl. 101—366)



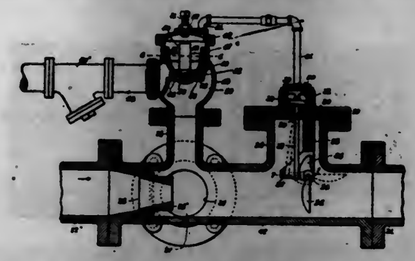
1. Supply mechanism, comprising a rotary and rectilinearly reciprocable member, a cylinder, a piston operable in said cylinder and separate from said member but operable upon reciprocation thereof, and fluid connections with said cylinder.

1,924,732
BEDSTEAD
Ronald Culham Botwright, New Malden, England
Application February 7, 1931, Serial No. 514,243, and in Great Britain November 24, 1930
1 Claim. (Cl. 5—332)



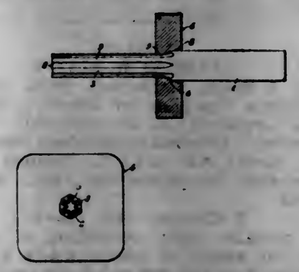
In a bedstead an end panel, two uprights on which the rear face of said panel is mounted so that the rear face of the panel abuts against the front edges of the uprights, said panel being divided into two transverse parts fixed to said upright and an intermediate transverse part, the said three parts extending the complete horizontal width of the panel and normally lying in the same vertical plane to complete a continuous panel, hinges connecting the intermediate part at its lower edge to the upper edge of the lowest part, two pairs of folding elbow links connecting the normally vertical edges of said intermediate part to the outer side faces of said uprights, a two plate hinge secured by one plate to the normal rear face of said hinged part of the panel near the free edge of said hinged part of the panel, the other plate of the hinge being shaped and adapted to lie across the free edge of said hinged part of the panel when in the supporting position, a leg to which said other hinge plate is fixed, the upper end of said leg being adapted to abut against the outer face of the hinged part of the panel when in the supporting position to be swung against the inner vertical face of said hinged part of the panel when the hinged part of the panel is not in use.

1,924,733
BLOW-OFF DEHEATER FOR BOILERS
Edward P. Brock, Danvers, Mass.
Application August 4, 1932. Serial No. 627,455
16 Claims. (Cl. 137—152)



1. In a deheater for the blow off or boilers, the combination of a housing; an inlet nozzle extending into one end thereof; a water inlet to said housing; a reciprocable valve for said inlet; means for creating a pressure above said valve by the inlet water to retain the valve in closed position; and mechanism including a pivoted member in the path of and actuated by the discharge of liquid from said nozzle for reducing said pressure and permitting the opening of said valve.

1,924,734
METHOD OF MAKING TUBULAR MATERIALS
Russell G. Brown, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 11, 1931. Serial No. 521,717
11 Claims. (Cl. 153—70)



1. The method of preparing tubular materials having longitudinal re-entrant portions which comprises passing a tube longitudinally through a die aperture having no re-entrant portions and having a perimeter suitably less than the perimeter of the tube to cause the re-entrant portions to form by collapsing away from the die aperture.

1,924,735
MEANS FOR HOLDING CHASERS
Ernest T. Bymbo and Robert R. Finn, Springfield, Vt., assignors to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont
Original application February 25, 1930, Serial No. 431,498. Divided and this application August 25, 1932. Serial No. 630,352
6 Claims. (Cl. 10—104)

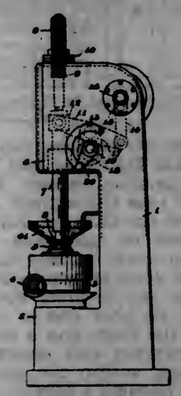
1. In combination, a chaser holder, a chaser of the tangent type carried by said holder with capability of adjustment longitudinally thereon, means for retaining said chaser in adjusted position, and means carried by said holder and co-

operating with said retaining means actuable to lock said retaining means in retaining position



or to move and hold said means out of retaining position.

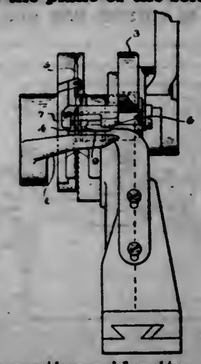
1,924,736
METHOD OF TRUING GEARS
Roy B. Fehr, Detroit, Mich., assignor, by mesne assignments, to Detroit Trust Company, Detroit, Mich., a corporation of Michigan
Application January 15, 1931. Serial No. 508,825
4 Claims. (Cl. 51—278)



1. The herein described method of truing gears which consists in telescopically engaging a gear and lap, one of which has the form of an external gear and the other the form of an internal gear, the gear and lap being of the same pitch diameter and complemental in form, imparting relative axial reciprocating movements to the gear and lap, one with respect to the other while maintaining the gear and lap in telescopic engagement, and rigidly holding the gear and lap against relative tilting movements while permitting free lateral movement of one with respect to the other in any direction perpendicular to the axes of the gear and lap and while maintaining a torsional pressure between opposed tooth faces of the gear and lap.

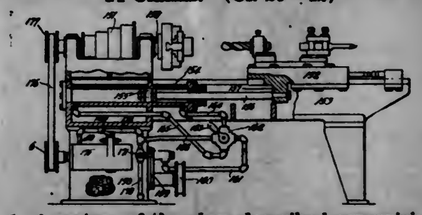
1,924,737
RESOLING STITCHING MACHINE
John Ferrara, Rochester, N. Y.
Application March 6, 1929. Serial No. 344,699
8 Claims. (Cl. 112—45)

1. In a resoling machine, the combination of a work support, a presser foot cooperating therewith to hold a work piece and having a gage for engagement with the edge of the work piece, an awl adapted to operate on and movable to feed the work piece on its support, a stitching mechanism operating through the openings formed by the awl, a lip forming cutter movable with the awl and adapted to engage the work to form a lip, said cutter having its cutting plane substantially parallel with the plane of the sole to be cut and



means for supporting said cutter so that its cutting takes place from the gage inward.

1,924,738
HYDRAULIC POWER TRANSMISSION AND METERING DEVICE THEREFOR
Ralph E. Flanders, Springfield, Vt., assignor to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont
Application January 28, 1931. Serial No. 511,396
14 Claims. (Cl. 29—42)



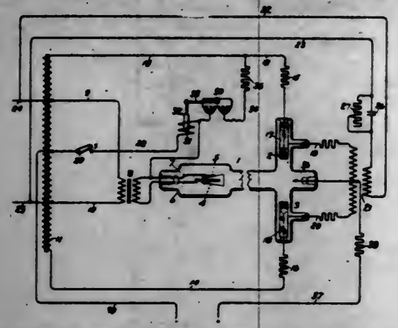
1. A system of the class described comprising a main motor, a member moved by said motor, means for supplying fluid under pressure to said main motor, a supplementary motor in series with said main motor and acting to control by its rate of speed the rate of flow of fluid in said system, and means for controlling the rate of speed of said supplementary motor connected to be driven thereby.

14. The combination with a machine having a rotary spindle and a slide movable relative to said spindle, of a main hydraulic motor for moving said slide, means for supplying liquid under pressure to said motor, and a supplementary reversible motor in driving relation to said spindle irrespective of its direction of rotation and interposable at will in series with said main motor for controlling the rate of flow of liquid and thereby controlling the rate of movement of said slide in accordance with the speed of rotation of said spindle.

1,924,739
ELECTRIC LAMP AND METHOD OF OPERATION
Clifton G. Found, Albert W. Hull, and Jerome C. Smith, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application June 24, 1930. Serial No. 463,520
20 Claims. (Cl. 176—124)

1. The method of varying the luminosity of a positive column alternating current lamp which consists in independently impressing upon the

discharge space a cyclic electric field which is capable of restraining the establishment of successive periods of current flow and varying the



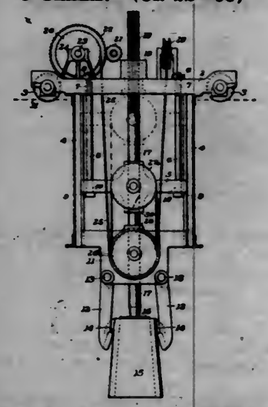
phase relation of said restraining field and the voltage of said discharge in accordance with desired variations in luminosity.

1,924,740
STRIPPER

Robert J. Harry and Milo Shutt, Alliance, Ohio, assignors to The Alliance Machine Company, Alliance, Ohio, a corporation of Ohio

Application October 21, 1930. Serial No. 490,221

5 Claims. (Cl. 22—95)



1. An ingot stripper, comprising a supporting frame, upper and lower lifting blocks, a ram for engaging the ingot, means on the lower block for engaging the ingot mold, means for limiting the downward movement of the upper block, stop means for limiting the upward movement of the lower block relative to the upper block, power multiplying means connected with said blocks, and power means connected with the power multiplying means to first raise the lower block at a low speed and high power until the upward movement of the lower block is arrested by the stop means to strip the ingot, after which the two blocks with the ingot mold will be raised at high speed without increasing the speed of the power means.

1,924,741
FUEL SUPPLY TANK

James E. Hoopes, Chagrin Falls, and Earle Shoulter, Bridgeport, Ohio; said Shoulter assignor to said Hoopes

Application March 5, 1931. Serial No. 520,314

16 Claims. (Cl. 220—86)

1. A fluid reservoir having a horizontally extending partition so arranged that the fluid, when the reservoir is filled, will flow thereacross, and means extending into close proximity to one side



of said partition for drawing off the contents of said reservoir.

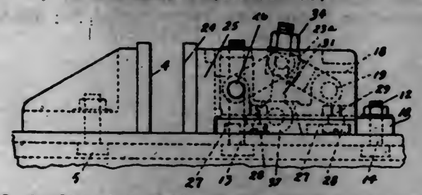
1,924,742
CLAMPING DEVICE

Arthur Lindner, Cincinnati, Ohio, assignor to The Lindner Manufacturing Company, Lockland, Ohio, a corporation of Ohio

Application December 19, 1930

Serial No. 503,518

6 Claims. (Cl. 90—59)



6. A clamping device comprising a base provided with means for fixing said base to a support, a work engaging element having engagement with said base throughout the major part of the length of the base for guiding said work engaging element on said base, a bolt having its lower end pivoted on said base, a member movable up and down on said bolt, a nut on said bolt for moving said member downward, a link pivoted to said member and to said base within one end of the base, and a second link pivoted to said member and engaging said work engaging element within the other end of the base, said links forming a toggle.

1,924,743
PROCESS OF PREPARING REFRACTORY MATERIAL

Elisabeth Lux, Essen, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application October 7, 1930

Serial No. 487,691

8 Claims. (Cl. 106—10)

1. The process of preparing ceramic masses from granular refractory material and finely divided dry clay, which comprises soaking the said refractory material in water containing a deflocculating substance, mixing the thus treated refractory material with clay in a suitable mixer and then molding the same.

1,924,744
PREPARATION OF REFRACTORY MORTAR

Elisabeth Lux, Essen, Germany, assignor, by mesne assignments, to The Koppers Company of Delaware, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application February 17, 1931, Serial No. 516,517, and in Germany July 29, 1929

1 Claim. (Cl. 106—9)

A clay-free refractory mortar composition comprising: silica; an insoluble lime compound; and about 1% of an organic binder comprising both a starch capable of swelling in cold water and dry residue from sulphite cellulose liquor.

1,924,745
BOBBIN

Frank Mossberg, Attleboro, Mass.

Application January 9, 1930. Serial No. 419,552

4 Claims. (Cl. 242—118)



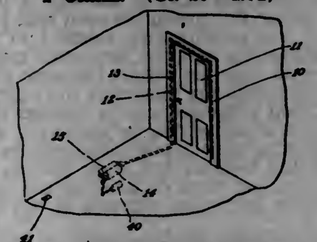
1. In a metal bobbin, a ratchet head, a central tube having one end permanently secured to the ratchet head, a head plate having a central opening, an outer sleeve concentric with said central tube, an integral annular hub on said ratchet head extending inwardly of said sleeve, said sleeve having a close fit on said hub, the ends of said sleeve contacting with said head plate and said ratchet head, said central tube extending through said central opening and having its free end turned over the edge of said opening to bind and lock the parts in assembled relationship.

1,924,746
THEFT PREVENTION DEVICE

William Nicham, New York, N. Y.

Application March 5, 1931. Serial No. 520,343

1 Claim. (Cl. 20—1.01)



In a device of the class described, a unit for forcing atomized gas through a conduit comprising a pair of cylinders lying side-by-side, one of said cylinders being adapted to receive air and the other to receive a liquid, pistons and piston rods in said cylinders adapted to work in unison, a bridging member rigidly joining the ends of said piston rods outside said cylinders, outlet ports in said cylinders, tubes leading from said ports and converging into said conduit, an opening in the side of said liquid cylinder, a pipe connected to said opening and leading from a liquid tank, a valve in the end of said pipe adjacent said cylinder, and means on said valve cooperating with said liquid cylinder piston for opening and closing said valve, to permit liquid to flow from said pipe into said cylinder.

1,924,747
APPARATUS FOR MEASURING COLOR

Dorothy Nickerson, Washington, D. C.

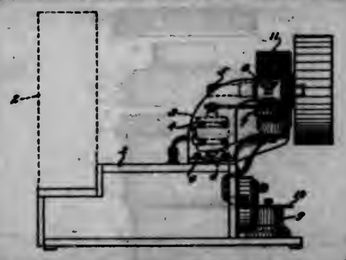
Application November 13, 1928

Serial No. 319,158

1 Claim. (Cl. 88—14)

(Granted under the Act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

A colorimeter of the character described, the combination with a base, a sample holder mounted on the rear of said base, means for mounting color disks, having percentage graduations thereon, in operative relation to the sample holder, means for revolving said disks, illuminating means mounted on the front of the base and so



positioned as to cast uncolored rays of equal light simultaneously on sample and on color disks, and a telescope assembly mounted on said base so positioned as to permit simultaneous observance of said disks and sample.

1,924,748
ABRASIVE BODY AND METHOD OF MAKING THE SAME

Emil E. Novotny, Philadelphia, Pa., and Joseph N. Kuzmick, Passaic, N. J., assignors of one-half to John Stogdell Stokes, Huntingdon Valley, Pa., and one-half to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey

No Drawing. Application February 20, 1931

Serial No. 517,300

8 Claims. (Cl. 51—280)

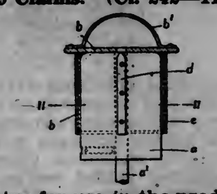
1. An abrasive composition comprising abrasive granules, a thermosetting resin and an alcohol of the furfuryl-benzyl class.

1,924,749
SUPPORTING MEANS FOR ARTIFICIAL SILK

Fritz Paschke, Cologne, and Peter Franzen, Cologne-Nippes, Germany, assignors to Glanzstoff-Courtaulds G. m. b. H., Cologne-Merheim, Germany, a German company

Application October 3, 1931, Serial No. 566,718, and in Germany October 23, 1930

9 Claims. (Cl. 242—118)



1. Apparatus for use in the production of artificial silk, comprising in combination a bobbin, a sleeve of rigid material split so as to be capable of contraction and fitting over said bobbin, and a second sleeve of collapsible material fitting over said contractible sleeve, the silk thread being spun onto said second sleeve and said contractible sleeve being easily withdrawable from the bobbin together with said second sleeve and the thread winding on it.

1,924,750
SOCKET SHELL CONSTRUCTION

Carl M. Petersen, Trenton, N. J., assignor to Circle F Mfg. Co., Trenton, N. J., a corporation of New Jersey

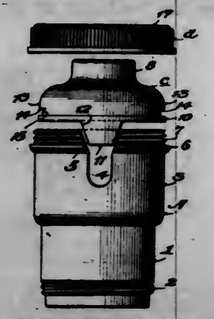
Application December 18, 1928

Serial No. 326,747

5 Claims. (Cl. 173—362)

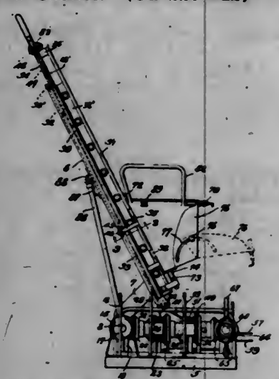
1. A socket shell comprising a body portion, a cap element, and a nut element for securing the

cap element to the body portion, one of said elements having a flange and the other having a groove to receive said flange to effect a swivel



connection between said elements, the nut element being flexible and being adapted to be deformed and sprung over the cap element to effect interengagement of said tongue with said groove.

1,924,751
EXTENSIBLE FIRE LADDER
Horatio A. Porter, South Hadley Falls, Mass.
Application March 24, 1931. Serial No. 525,009
5 Claims. (Cl. 227—12)

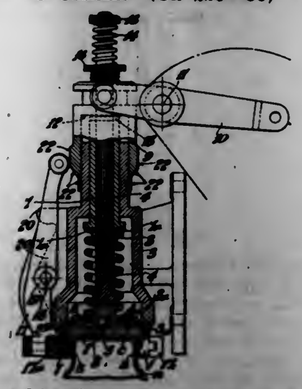


1. A fire apparatus comprising a ladder including a main section and a telescoping section, said ladder embodying hollow side rails, cables extending through the hollow side rails and connected with the telescoping section to extend and retract the telescoping ladder section, a carrier movable over the ladder, cables extending through the side rails of the ladder and having connection with the carrier for moving the carrier over the ladder, and power controlled means for operating the cables.

1,924,752
HEAT RESISTING GLASS GIVING DAYLIGHT EFFECTS
Walter H. Rising, Painted Post, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
No Drawing. Application September 3, 1929 Serial No. 390,217
6 Claims. (Cl. 106—36.1)

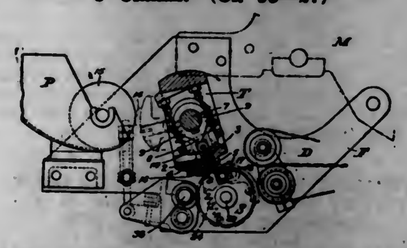
1. A sodium borosilicate glass containing an oxide of the metallic elements of the second periodic group having an atomic weight between 60 and 120 and also containing cobalt, and containing ferrous oxide.

1,924,753
CAPPING MACHINE
William Reuben Roberts, Harrow, England
Application February 8, 1930, Serial No. 427,040, and in Great Britain March 4, 1929
3 Claims. (Cl. 226—86)



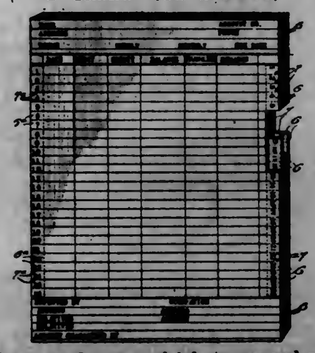
1. A machine for securing closures of cap formation over the mouths of containers formed with an overhanging shoulder, comprising a plurality of levers pivoted between their ends, die segments carried at one end of the respective levers, a reciprocating element having cam surfaces on the outside thereof engaging with the other ends of said levers so that as said element moves in one direction said other ends are moved outwardly and said die segments are closed inwardly around the skirt of the cap, a pressure head, a spring interposed between said pressure head and said reciprocating element so that as said reciprocating element continues moving in the aforesaid direction beyond the point at which said die segments are moved to the fully closed position, said pressure head is pressed through the medium of said spring on the top of the cap, thereby moving the cap and bottle relative to said segments and bending the lower portion of the skirt of said cap inwards between the shoulder and inwardly projecting portions of the die segments.

1,924,754
ROTARY FOLDER FOR PAPER-BAG MAKING AND SIMILAR MACHINES
Sidney George Rowles, Orpington, England, assignor of one-half to Percy Robert Fender, London, England
Application November 2, 1931, Serial No. 572,682, and in Great Britain January 24, 1931
5 Claims. (Cl. 93—27)



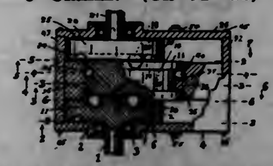
1. In mechanism of the character described, a normally fixed shaft, a tucking cylinder rotatable on said shaft, a tucking blade mounted on said cylinder for inward and outward movement relative thereto, resilient means constantly urging the tucking blade inwardly, and cam means on said shaft for cooperation with said tucking blade to force the latter outwardly as the cylinder rotates on the shaft.

1,924,755
LEDGER CARD
Samuel M. Rubin, Kansas City, Mo.
Application February 17, 1932. Serial No. 593,607
1 Claim. (Cl. 283—66)



A ledger card upon which to record payments made on an installment account, said card having upper and lower horizontal edges and right and left vertical edges, the upper and lower portions of said vertical edges being adapted to abut the sides of a filing drawer, said card having a row of tabs severably connected therewith and adapted for removal consecutively as installments are paid, said series of tabs extending along at least one of said vertical edges but terminating in vertically spaced relation with said upper and lower edges so that removal of any or all of said tabs cannot decrease the horizontal distance between said drawer-abutting portions of said vertical edges, whereby a plurality of said cards may stand in a front-to-rear row in a filing drawer and may be held in strict front-to-rear alinement by the sides of the drawer, and mere sighting rearwardly through the notches formed in the cards by consecutive removal of their tabs, will disclose the unremoved tabs of delinquents' cards.

1,924,756
CHANGE SPEED MECHANISM
Samuel E. Secoy, Newcastle, Ind., assignor of one-half to Hiram L. Smith, Newcastle, Ind.
Application February 15, 1933. Serial No. 656,785
5 Claims. (Cl. 74—14)



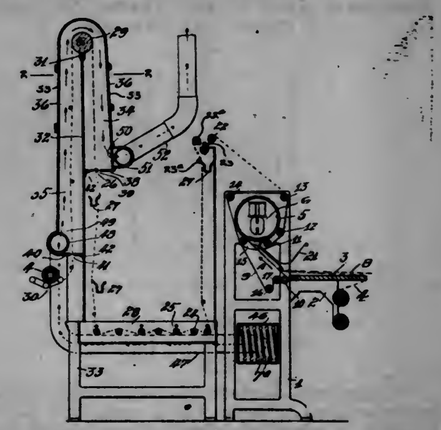
1. A change-speed mechanism, comprising opposed proximate rotatable members in offset axial alignment, the head of one having projecting diametrically opposed anti-friction power transmitting members spaced equidistant from the axial center of said head, and the head of the other rotatable member having diametric grooves at right angles to each other, the axial center of said head being coincident with the center of one of the said power transmitting members, and one of the grooves being in engagement with the said power transmitting members.

1,924,757
AMUSEMENT APPARATUS
Harry Shiseff, Brooklyn, N. Y.
Application May 7, 1929. Serial No. 361,143
7 Claims. (Cl. 273—103)



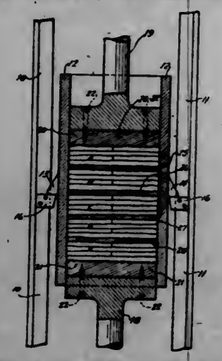
1. An amusement apparatus including in combination with a basket-ball and a stall having side walls and a back wall with a basket supported by the back wall, ball returning means in the lower portion of and extending throughout the bottom area of the booth, said returning means consisting of a table having a ball runway extending at a forward and downward inclination from a point adjacent the rear of the booth and at one side thereof, said table presenting surfaces pitched in such a manner as to gravitationally direct the balls to the elevated rear receiving end of the runway.

1,924,758
AUTOMATIC BLUE PRINTING AND FINISHING MACHINE
Harry Hewes Sullivan, Rochester, N. Y.
Application October 21, 1931. Serial No. 570,225
15 Claims. (Cl. 95—90.5)



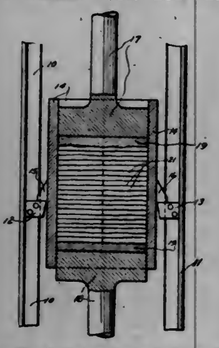
1. In a machine of the character described, a drier in which is an air chamber having normal stationary walls and through which the paper is fed, an air duct extending along one end of said chamber having a slot opening in the wall of the air duct for the inlet of air to the chamber, and an air duct along the opposite end of the chamber having an opening in its wall for the discharge of air from said chamber, said chamber having openings adjacent said second and first named ducts, respectively, for the passage of the paper into and out of the chamber.

1,924,759
PROCESS OF PRESSING AND PACKING TOBACCO
Henry P. Taylor, Winston-Salem, N. C.
Application June 7, 1930. Serial No. 459,710
6 Claims. (Cl. 131—11)



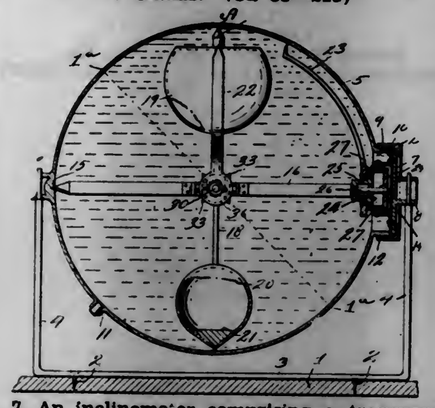
1. The method of pressing blocks of manufactured piece tobacco, which comprises placing a plurality of blocks, each block including a plurality of pieces, one on top of another with a plate having on one face a representation of a tobacco leaf at the top and bottom of the pile of blocks and a plate between each two blocks having such representations on both sides thereof, confining and pressing the entire pile of blocks and plates and subsequently separating the pile of blocks into separate block units.

1,924,760
METHOD OF PRESSING AND PACKING TOBACCO WITH NATURAL FINISH
Henry P. Taylor, Winston-Salem, N. C.
Application June 7, 1930. Serial No. 459,711
1 Claim. (Cl. 131—11)



That method of pressing and packing pieces of manufactured tobacco which comprises placing a batch of pieces of tobacco in a suitable press and impressing on the surfaces which are to occupy the top and bottom positions in a packing caddy or box a surface which is a reproduction of the surface finish of a layer of tobacco taken from an inside layer of pressed manufactured tobacco, then removing the batch of pressed tobacco from the press and sealing the same in a caddy, box, and the like and while in the caddy, box, and the like again impressing on the top and bottom surfaces of the batch of tobacco another surface finish which is a reproduction of a layer of tobacco taken from the inside of a batch of pressed manufactured tobacco.

1,924,761
INCLINOMETER
Robert B. Turner, Fowler, Kans.
Application May 9, 1930. Serial No. 451,145
7 Claims. (Cl. 33—215)



7. An inclinometer comprising a transparent spherical member having indicia thereon, a float controlled rock shaft in said transparent spherical member, pointers within the spherical member and cooperating with the indicia for indicating inclination of the spherical member and gear train connections between said pointers and the rock shaft whereby said pointers upon inclination of the spherical member will move in the directions of inclination.

1,924,762
PREPARATION OF CARBOXYLIC ACIDS
John C. Woodhouse, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 11, 1932
Serial No. 642,238
18 Claims. (Cl. 260—116)

1. A process for the preparation of aliphatic carboxylic acids from steam, carbon monoxide, and an olefinic hydrocarbon, which includes the step of effecting the reaction in the presence of a volatile inorganic acid.

1,924,763
PREPARATION OF CARBOXYLIC ACIDS
Gilbert B. Carpenter, Elizabeth, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 28, 1932
Serial No. 619,737
18 Claims. (Cl. 260—116)

1. In a process of reacting an olefinic hydrocarbon, steam, and carbon monoxide, and thereby producing an aliphatic carboxylic acid, the employment of a volatile halide as a catalyst for the reaction.

1,924,764
PROCESS OF PREPARING ALIPHATIC CARBOXYLIC ACIDS FROM OLEFINIC HYDROCARBONS, CARBON MONOXIDE AND STEAM
Walter E. Vail, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 31, 1931
Serial No. 584,294
8 Claims. (Cl. 260—116)

1. In a process for the preparation of aliphatic carboxylic acids from steam, carbon monoxide, and an olefinic hydrocarbon the step which comprises effecting the reaction in the presence of boron phosphate.

1,924,765
PREPARATION OF CARBOXYLIC ACIDS FROM OLEFINIC HYDROCARBONS, CARBON MONOXIDE, AND STEAM
Alfred T. Larson and Walter E. Vail, Wilmington Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 25, 1931
Serial No. 577,392
10 Claims. (Cl. 260—116)

1. A process for the preparation of aliphatic carboxylic acids from steam, carbon monoxide, and an olefinic hydrocarbon which includes the step of effecting the reaction in the presence of an ammonium halide, and active carbon.

1,924,766
PROCESS FOR THE PRODUCTION OF CARBOXYLIC ACIDS
Gilbert B. Carpenter, Bellemoor, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 24, 1931
Serial No. 559,130
27 Claims. (Cl. 260—116)

1. The process of producing aliphatic carboxylic acids which comprises reacting a gaseous mixture consisting essentially of an olefinic hydrocarbon, steam and carbon monoxide substantially in accordance with the equation

$$RR_1C{:}CR_2R_3+H_2O+CO=CHRR_1.CR_2R_3.COOH$$

in which R, R_1, R_2 and R_3 represent hydrogen (H) or an alkyl radical.

1,924,767
PROCESS FOR THE PRODUCTION OF CARBOXYLIC ACIDS
Gilbert B. Carpenter, Bellemoor, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 24, 1931
Serial No. 559,123
13 Claims. (Cl. 260—116)

1. In a process of reacting an olefinic hydrocarbon, steam, and carbon monoxide and thereby producing an aliphatic carboxylic acid, the employment of a hydrogen halide and a metal halide as a catalyst for the reaction.

1,924,768
PROCESS FOR THE PRODUCTION OF CARBOXYLIC ACIDS
Gilbert B. Carpenter, Bellemoor, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 24, 1931
Serial No. 559,125
7 Claims. (Cl. 260—116)

1. In a process of reacting a gaseous mixture containing an olefinic hydrocarbon, steam, and carbon monoxide and thereby producing an aliphatic carboxylic acid, the step of passing the gaseous mixture over a substantially non-volatile compound containing at least two chemically combined elements the oxides of which are acidic, as a catalyst for the reaction.

1,924,769
PROCESS FOR THE PRODUCTION OF CARBOXYLIC ACIDS
Gilbert B. Carpenter, Bellemoor, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 24, 1931
Serial No. 559,127
7 Claims. (Cl. 260—114)

2. In a process of producing formic acid from a gaseous mixture containing carbon monoxide and steam the step which comprises passing the gaseous mixture over the halide of an element selected from the group of basic elements having an atomic weight of from 6 to 209 consisting of calcium, barium, strontium, magnesium, sodium, potassium, cæsium, rubidium, lithium, tin, iron, cobalt, nickel, bismuth, manganese, lead, titanium, zinc and cadmium.

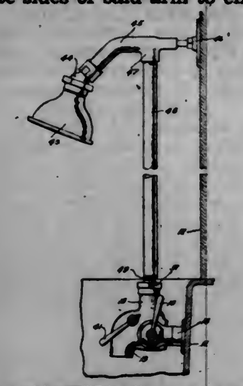
1,924,770
ABSORPTION REFRIGERATING SYSTEM
Sigurd Mattias Bäckström, Stockholm, Sweden, assignor, by mesne assignments, to Electrolux Servel Corporation, New York, N. Y., a corporation of Delaware
Application October 20, 1931, Serial No. 569,917, and in Germany January 20, 1931
5 Claims. (Cl. 62—119.5)

4. In an absorption refrigerating system having an absorber and an evaporator interconnected for the circulation of inert gas, a conduit for gas connected to said absorber above the liquid level therein and having a portion extending downwardly below the liquid level, and a connection for liquid from the absorber to said portion of the gas conduit such that absorption liquid stands in said portion at the same level as in the absorber.

1,924,771
COMBINATION BATH FIXTURE
Albert C. Brown and Earl E. Brown, Chicago, Ill., assignors to The Chicago Faucet Company, Chicago, Ill., a corporation of Illinois
Application March 8, 1930. Serial No. 434,195
4 Claims. (Cl. 4—148)

1. A bathtub fixture, comprising a body forming a mixing chamber and provided with hot and cold water inlets and spout and shower outlets angularly arranged with respect to each other, an arm pivoted for vertical movement in the plane of the axes of said outlets, and a valve member carried

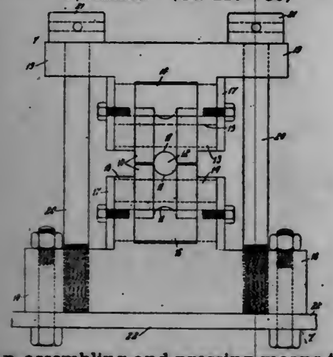
by said arm and having seating faces arranged on the opposite sides of said arm to engage respectively each said outlet, the connection between said arm and said valve member being a loose one.



1,924,772
WIRE ROPE OR CABLE MAKING MACHINE

Percy Robert Clark, Ploesti, Rumania

Application November 18, 1930, Serial No. 496,526, and in Great Britain December 6, 1929
2 Claims. (Cl. 117—50)



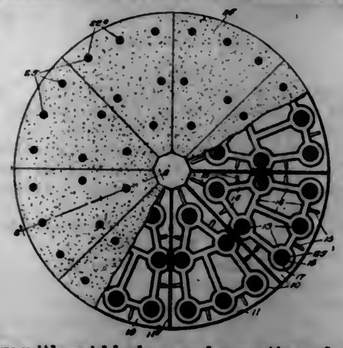
1. An assembling and pressing means to be interposed between the twisting element and drawing reel of a machine for making wire ropes or cables, said assembling and pressing means including aligned bearing elements having their adjacent ends spaced apart and of relatively inverted V-form, a grooved roller mounted substantially in the apex of each bearing element, the respective rollers extending beyond the bearing elements and substantially in contact, the peripheral surface of each roller being formed with an annular channel, the channels of the two rollers cooperating to form a substantially circular die aperture, and means connecting the bearing elements wholly beyond the rollers and positioned in line with the axial plane of the rollers for adjusting the bearing elements and thereby the rollers relative to each other.

1,924,773
ABRASIVE DISK

Albert J. Doermann, Chicago, Ill., assignor to Titan Abrasives Company, Chicago, Ill., a corporation of Illinois

Application March 11, 1932. Serial No. 598,278
3 Claims. (Cl. 51—209)

1. An abrasive disk, comprising; a sheet metal back with a plurality of holes each surrounded by an adjacent circular upstanding ridge formed in the back; washers inside of said ridges and in



registry with said holes; and a coating of abrasive material cemented to the back with holes in registry with holes in the washers.

1,924,774
PRODUCTION OF DYESTUFFS AND INTERMEDIATES

David Alexander Whyte Fairweather and John Thomas, Grangemouth, Scotland, assignors to Scottish Dyes Limited, Grangemouth, Scotland

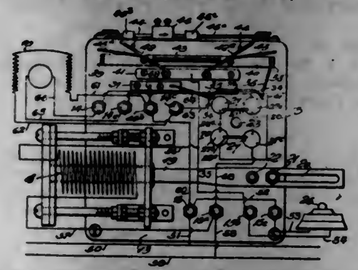
No Drawing. Application February 6, 1930, Serial No. 426,417, and in Great Britain February 8, 1929
15 Claims. (Cl. 260—86)

1. The process which consists in diazoting β-amino-anthrahydroquinone-disulphuric - acid-ester with nitrous acid.

1,924,775
ELECTRIC MOTOR-CONTROLLING MEANS

Allen M. Flanders and Joseph T. Dessureau, Barre, Vt.

Application May 19, 1932. Serial No. 612,318
1 Claim. (Cl. 172—239)



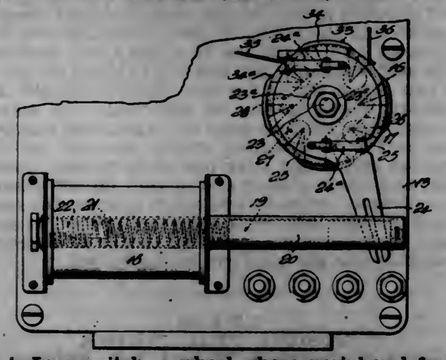
In a controlling means for a reversible motor, a base, four fixed contacts carried by said base and spaced equidistantly about a common center, a wheel rotatably mounted on said common center, two bridges secured to said wheel and having their ends spaced apart equidistantly about said common center alternately bridge between and clear said fixed contacts as the wheel is turned step by step, a self-returning ratchet mechanism for turning said wheel one eighth revolution each time said ratchet mechanism is operated, a solenoid connected with said ratchet mechanism for operating the same, electrical connections between said fixed contacts and the motor for effecting motor-driving in one direction when said bridges are in one contact-engaging position and for effecting reverse motor-driving when said bridges arrive at their next

contact-engaging position, a starting switch in circuit with said solenoid for energizing the latter to turn said wheel to a motor-driving position, current-conducting means carried by said wheel and having four contact portions spaced apart equidistantly about the wheel axis, two additional fixed contacts on said base positioned to be engaged by the last mentioned contact portions only when said wheel is in a motor-driving position and each time said wheel is in such a position, two limit switches, and electrical connections for establishing a circuit for said solenoid through said two additional contacts, through said wheel-carried current conducting means, and through either limit switch upon closing of the latter.

1,924,776
ROTATABLE SWITCH

Allen M. Flanders and Joseph T. Dessureau, Barre, Vt.

Application December 6, 1932. Serial No. 646,006
3 Claims. (Cl. 200—7)

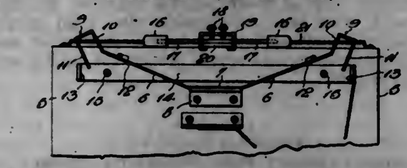


1. In a switch, a wheel whose peripheral face is formed with circumferentially spaced circumferentially extending grooves, and a contact ring tightly surrounding said wheel and having circumferentially extending portions received in said grooves and sunk inwardly beyond said peripheral face of the wheel, said contact ring also having circumferentially extending contact portions between said groves and projecting radially beyond said peripheral face of the wheel.

1,924,777
LIMIT SWITCH

Allen M. Flanders and Joseph T. Dessureau, Barre, Vt.

Original application May 19, 1932, Serial No. 612,318. Divided and this application December 6, 1932. Serial No. 646,007
4 Claims. (Cl. 200—47)

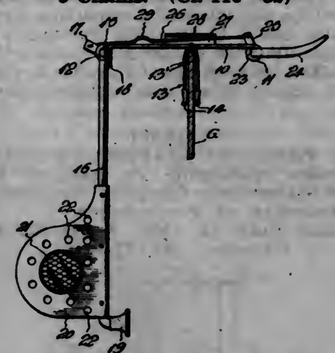


1. A switch comprising a base, two swingable arms mounted on said base, said arms being normally spring-held in one position, a fixed metal strip secured to said base in a plane parallel with the plane of movement of said arms, said strip having free laterally bent ends disposed in the paths of said arms and alone constituting fixed contacts for co-action with said arms.

1,924,778
AUTOMOBILE SIGNAL

Allen M. Flanders and Joseph T. Dessureau, Barre, Vt.

Application December 6, 1932. Serial No. 646,008
9 Claims. (Cl. 116—52)

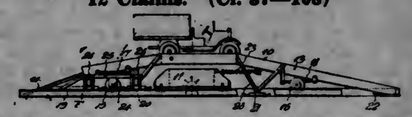


1. An automobile signal comprising a horizontal plate adapted to extend over a partly lowered automobile window glass, said plate having its ends bent to provide two parallel tubular bearings for disposition at the exterior and interior of the automobile respectively, a signal-carrying rock shaft mounted in the external bearing and having a crank arm on one end, a handle-equipped rock shaft mounted in the internal bearing and having a crank arm on one end, and a link extending between and pivoted to said crank arms.

1,924,779
OVERPASS

Benjamin H. Flynn, Alexandria, La.

Application June 17, 1932. Serial No. 617,856
12 Claims. (Cl. 37—108)

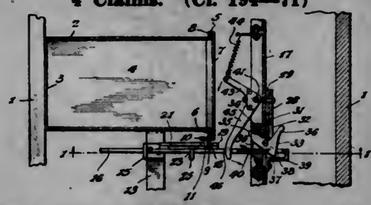


1. An overpass comprising a longitudinally arched inherently rigid bridge having a floor upon which motor trucks may be driven, wheeled means supporting said bridge and including means allowing depression of said bridge under the weight of a truck, and normally idle feet for supporting said bridge when depressed.

1,924,780
DELIVERY MECHANISM FOR VENDING MACHINES

Benjamin L. Fry, St. Louis, Mo.

Application August 15, 1930. Serial No. 475,531
4 Claims. (Cl. 194—71)



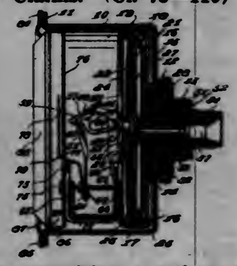
1. In a coin-controlled vending machine, the combination of a slide movable in a rectilinear path, means whereby reciprocation of the slide will effect a delivery of goods, a rest on one side

of the slide adapted to temporarily support a deposited coin, a trip pivotally mounted for rocking movement on said rest to present one edge transversely to the edge of a deposited coin, a stop cooperating with said trip to prevent forward movement of the slide, a spring operatively connected with the trip, and means for imparting a reciprocatory movement to the slide movement of the trip across the edge of the coin causing the trip to be rocked transversely of the slide to clear the stop and permit forward movement of the slide.

1,924,781
LOW PRESSURE DIAPHRAGM GAUGE

Paul Gaiser, Sellersville, Pa., assignor to The United States Gauge Company, New York, N. Y., a corporation of Pennsylvania

Application April 13, 1929. Serial No. 354,823
7 Claims. (Cl. 73—110)



2. A gauge comprising a casing; pressure-responsive means and indicating means removably mounted as a unit within said casing; said pressure responsive means comprising a light flexible diaphragm clamped between a pair of spaced plates; one of said plates defining a stop for said diaphragm and the other of said plates defining with said diaphragm a pressure chamber, said indicating means comprising bendable rocking means designed to engage said diaphragm, a spring for pressing said rocking means into engagement with said diaphragm, a movable indicator mounted for rotation at right angles to the movement of said rocking means, and a connection between said indicator and said rocking means.

1,924,782
WINDOW

Charles Goering, South Norwalk, Conn.

Application February 11, 1933. Serial No. 656,333
7 Claims. (Cl. 20—52)

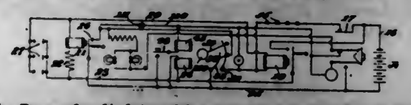


1. A window comprising a frame, spaced inner and outer guides mounted vertically on the frame, upper and lower sashes mounted for vertical sliding adjustment in the frame, said sashes being vertically aligned when in closed position, and resilient means mounted in the frame between the guides for yieldingly urging the sashes against said guides when the sashes are in raised position.

1,924,783
ELECTRICAL GAS DAYLIGHT HOLDUP PROTECTION SYSTEM

Byron C. Goss, Cleveland, Ohio

Application June 30, 1930. Serial No. 464,992
3 Claims. (Cl. 177—314)

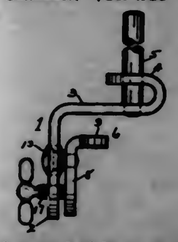


1. In a daylight robbery gas protection system the combination comprising a normally closed circuit, a source of current, a high resistance, a first relay coil, a second relay coil, and gas guns, all included in said circuit, circuit closers, means connecting the circuit closers across the said resistance and across the first relay coil whereby the said resistance and coil will be short circuited when one of the said circuit closers is closed, an electric alarm, means for controlling the alarm operated by the first relay coil when said first relay coil is de-energized, means operated by the second mentioned relay coil upon closing, opening and again closing one of said circuit closers to increase, decrease, and again increase the current through the second relay coil to connect said gas guns directly across the source of current, whereby the gas guns will be discharged.

1,924,784
MUSICAL TRAP HOLDER

Leland B. Greenleaf, Elkhart, Ind., assignor to C. G. Conn, Ltd., Elkhart, Ind., a corporation of Indiana

Application February 20, 1932. Serial No. 594,369
3 Claims. (Cl. 248—20)



2. A musical trap holder comprising an angular bracket member, one leg thereof providing a stationary jaw, a movable jaw member adapted to coact with said stationary jaw, stud means tiltably connecting said movable jaw with said bracket member, and screw means for tilting said movable jaw.

1,924,785
CANNULA PACKAGE

José Grifols y Roig, Barcelona, Spain

Original application March 16, 1929, Serial No. 347,572, and in Germany March 24, 1928. Divided and this application October 10, 1930. Serial No. 487,875
2 Claims. (Cl. 206—63.2)

1. A package comprising a cannula or like medical instrument and a thin-walled, sealed envelope enclosing the same, said envelope being of

shatterable material and its walls being sufficiently thin to be readily crushed by the jaws of a pair



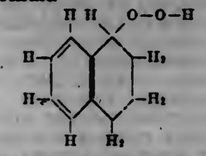
of small physician's forceps, without crushing the enclosed instrument.

1,924,786
CRYSTALLIZED PEROXIDE FROM TETRAHYDRONAPHTHALENE

Max Hartmann, Riehen, near Basel, and Max Seiberth, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application April 25, 1933, Serial No. 667,936, and in Switzerland April 29, 1932
1 Claim. (Cl. 260—16)

1:2:3:4-tetrahydronaphthalene-1-peroxide of the probable formula



forming colorless crystals of melting point 53 to 54° C., decomposing in the heat or in contact with sulfuric acid, being soluble in most organic solvents and dilute caustic soda solution, and forming a solid sodium compound by treatment with strong caustic soda solution, said product being useful for technical and therapeutical purposes.

1,924,787
PROCESS OF IMITATING ONYX, MARBLE, OR THE LIKE ON GLASS

Frank L. Hill, Orlando, Fla.

Application February 1, 1933. Serial No. 654,715
2 Claims. (Cl. 41—22)

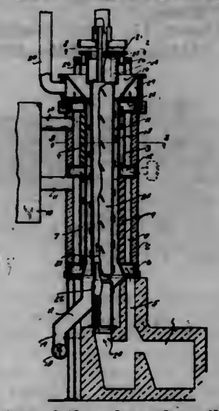


1. A process of producing imitation onyx, marble or the like having at least one simulation of a crack of vein and/or beauty spot, comprising the steps of applying a vari-colored body coat of coating material directly upon the reverse surface of a transparent plate and working the various colors upon said surface to simulate onyx, marble or the like free from cracks or veins and beauty spots, removing a portion or portions of said body coat while wet to expose a restricted area of said surface wherever it is desired to simulate a crack, vein or beauty spot, applying more coating material of proper color or colors to each exposed area to simulate the desired crack or vein and/or beauty spot, so working and merging the crack or vein and/or beauty spot material and the contiguous portions of said body coat as to present a natural appearance, and allowing all of the coating material to dry and permanently adhere to the plate.

1,924,788
DEVICE FOR THE HEAT TREATING OF COMMINUTED MATERIALS

Frank E. Hobson, Bellingham, Wash., assignor to Western Combustion Engineers, Inc., Portland, Oreg., a corporation of Oregon

Application August 14, 1931. Serial No. 557,168
5 Claims. (Cl. 263—21)

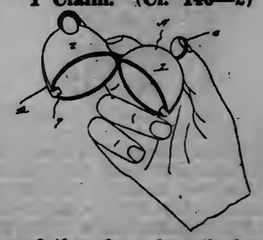


1. In a device of the class described, the combination of a plurality of concentrically mounted substantially cylindrical shells of different diameters superposed on the base of the furnace, one of said shells having a slightly increasing diameter from top to bottom, the space between the shells forming a passageway uniformly increasing in cross sectional area downward, means for movably suspending the inner shell centrally of the outer shell, said outer shell being stationary, the lower end of the suspended shell slidably engaging a guide for maintaining the shell in precise axial alignment with the stationary shell, means associated with the suspending means for the upper end of the inner shell for imparting an up and down and rotary movement thereto, one of the side walls of said passageway being louvered, and means for heating the inner and outer walls of the passageway.

1,924,789
EGG OPENER DEVICE

Anthony Horvath, Wallingford, Conn.

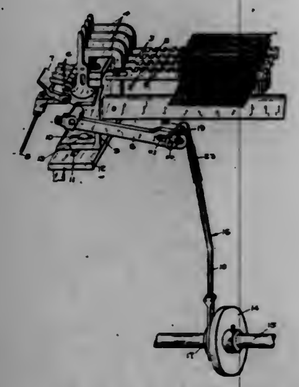
Application March 17, 1932. Serial No. 599,550
1 Claim. (Cl. 146—2)



A device of the class described comprising a pair of substantially semi-spherical sections hingedly connected together, a spring strip hav-

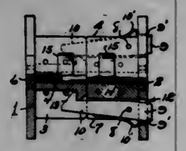
ing an intermediate portion connected to each section and having one end bent to form a handle ring at the outer end of the section and its other part extending along the section and having its extremity bent inwardly to form a tongue to enter the open end of the section, said tongues acting to penetrate the shell of an egg placed in the device and to split the shell when the two sections are moved to open position.

1,924,790
DRIVING MEANS FOR WARP STOP MOTIONS
Joseph Hyde, Gainesville, Ga., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application March 17, 1933. Serial No. 661,365
8 Claims. (Cl. 139—360)



1. A warp stop motion including movable detector members, means including an oscillator arm for moving said members, a connector rigidly fixed to said oscillator arm, a cam, a rod reciprocated endwise by said cam and confined to movements in a single plane, and a spring having one end secured to said rod and its other end secured to said connector, said spring being sufficiently rigid to impart motion from said rod to said connector but being yieldable laterally of the direction of said motion.

1,924,791
CUFF LINK
Harry Hyman, Asbury Park, N. J.
Application February 20, 1933. Serial No. 657,726
4 Claims. (Cl. 24—116)



1. A cuff button comprising two cooperating non-telescopic sections, fixed jaws on one of the sections, pivoted jaws on the second section, spring means influencing the jaws toward each other, stop means for limiting such swinging of the jaws and said pivoted jaws designed to coengage with the fixed jaws when the sections are associated.

1,924,792
FOOT INSTEP SUPPORT
Alfred Horner Kay, Alderley Edge, near Manchester, England
Application February 4, 1932, Serial No. 590,840, and in Great Britain April 29, 1931
4 Claims. (Cl. 36—71)

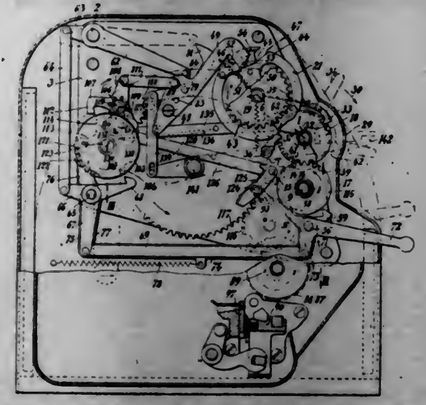


1. A foot instep support made from hard mouldable material of the vulcanite class with a cross-bar below its highest arched portion, characterized by an upstanding facing formed below the support, to which facing the cross-bar is detachably and interchangeably connected, the cross-bar having a tread surface lying in the plane of the tread surface of the support, as set forth.

1,924,793
PAINT FOR INDICATING HEAT
Franz Laske, Berlin-Steglitz, Germany
No Drawing. Application June 29, 1928, Serial No. 289,329, and in Germany June 30, 1927
2 Claims. (Cl. 134—39)

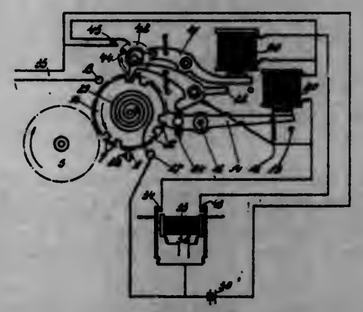
1. A paint for indicating increase in temperature, the materials of which the paint is composed including a metallic sulphur free substance exhibiting a distinct color subject to irreversible change when combined with sulphur and selected from the group containing lead, iron, quicksilver, antimony, arsenic, cadmium, copper, nickel, litharge, barium dioxide, and cobalt, and including a substance yielding a sulphur compound when heated such as thiourea or a substance yielding thiourea at elevated temperature and selected from the group containing thiourea and rhodammonium.

1,924,794
COUNTING MACHINE
Karl August Lehmann and Max Zakowski, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany
Application June 1, 1929, Serial No. 367,680, and in Germany June 5, 1928
12 Claims. (Cl. 235—132)



1. A counting machine in which an impulse of motion is generated when the counting mechanism reaches the set number to be counted, characterized by the fact that the number to be counted is set by means of a setting member which during the counting operation remains stationary.

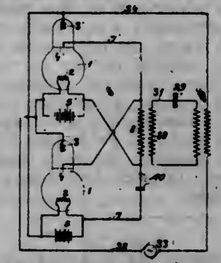
1,924,795
SELECTIVE RECEIVER
Camille Lipmann, Besancon, France, André Strahm, Schramberg, Germany, and Albert Quinche, Besancon, France, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Application January 23, 1930, Serial No. 422,920, and in Germany January 28, 1929
1 Claim. (Cl. 177—353)



A selector responsive to a code consisting of electric impulses and intervals of predetermined duration comprising a driving mechanism, a code wheel adapted to be driven by said mechanism provided with a series of raised conducting portions the width of which is such that the duration of their passing a given point under the action of the driving mechanism is slightly above the corresponding interval between two impulses and the intervals between the raised portions have each a width such that the duration of their passing a given point is slightly below the corresponding predetermined impulses, an electromagnetic clutch controlled by the impulses adapted to connect the code wheel to the driving mechanism, means to return the code wheel to original position when the clutch is disengaged, circuit connections whereby the electromagnetic clutch is controlled by the raised conducting portions of the code wheel during the intervals of the code and means for insuring that a single long impulse will not advance the code wheel to final position, comprising an electromagnet energized by the impulses, an auxiliary wheel means controlled by the electromagnet when energized to couple the auxiliary wheel to the driving means and means controlled by the auxiliary wheel after being driven a predetermined distance due to a long impulse to open the circuit of the electromagnetic clutch and thereby return the code wheel to original position.

1,924,796
PRODUCTION OF WAVES BY CATHODE RAY TUBES
Alexander Meissner, Berlin, Germany, assignor, by mesne assignments, to the United States of America, represented by the Secretary of the Navy
Application March 16, 1914, Serial No. 825,188, and in Germany April 9, 1913
7 Claims. (Cl. 250—36)

1. An apparatus for producing and increasing the amplitude of oscillations, comprising an aperiodic booster relay having a primary and secondary path for the oscillations, an oscillation circuit and means for setting up oscillations therein, said oscillation circuit being inductively coupled at one point with the primary and inductively coupled at another point with the secondary path of said booster, the oscillations originating in said circuit being increased and sustained by said relay.

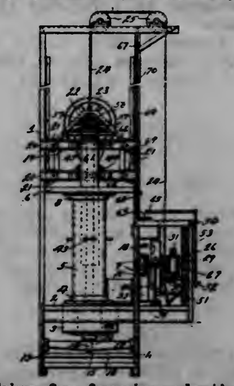


1,924,797
MOTOR VEHICLE
Archelus H. Mitchell, Selma, Ala.
Application April 29, 1932. Serial No. 608,317
3 Claims. (Cl. 296—1)



1. A truck platform embodying main and auxiliary platform sections normally abutting each other, the latter being manually movable from contact with the former, and means mounting said main platform section for turning about a vertical axis, such turning being normally prevented by the abutting relation of said main and auxiliary platform sections, said main and auxiliary platform sections normally lying in a single plane to jointly form the platform.

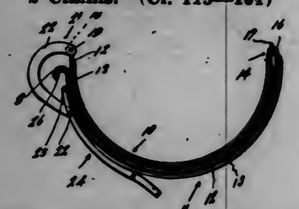
1,924,798
PLASTIC PIPE FORMING MACHINE
James R. Montigel, Redlands, Calif.
Application January 12, 1931. Serial No. 508,260
3 Claims. (Cl. 25—36)



1. A machine for forming plastic pipes comprising a frame, a mold receiving member carried by the frame, a carriage vertically movable in the frame above the mold receiving member, means carried by the frame for raising and lowering the carriage, a rotatable packer head carried by the carriage and axially movable through the mold and the mold holder, means for rotating the packer head, a lever controlling the carriage raising and lowering means, a stop mecha-

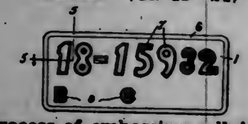
nism whereby said packer head will be stopped in its vertical movement with the carriage when it reaches the upper end of the mold, said stop mechanism comprising a vertically movable rod carried by the frame, an adjustable stop on said rod, a member carried by the carriage and cooperating with said stop for raising the rod at a predetermined position, a member carried by the carriage control mechanism lever, and a member carried by the rod and extending into the path of said lever member whereby said lever will be rocked upon upward movement of the rod with the carriage.

1,924,799
EAVES-TROUGH CLAMPING TOOL
Arthur M. Moore, Goshen, N. Y.
Application September 14, 1932
Serial No. 633,206
2 Claims. (Cl. 113—101)



1. An eaves-trough clamping tool of the class described comprising a pair of arcuate substantially duplicate clamping jaws hingedly connected together at one end, the free end of one jaw being formed with a keeper hook, a substantially J-shaped link unit permanently and pivotally connected to the free end portion of the remaining jaw, a lever pivotally connected intermediate its ends to the free swingable end of said link unit, the inner end of said lever being provided with a pin separably engageable with said keeper hook.

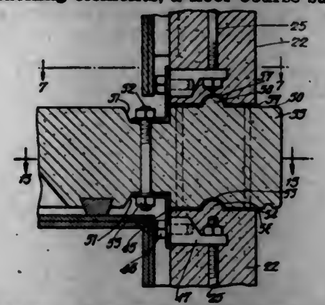
1,924,800
CELLULOID EMBOSSING PROCESS
Thomas M. Nixon, Victoria, British Columbia, Canada, assignor to Celluloids Limited, Victoria, Canada
Application August 1, 1932, Serial No. 627,227, and in Canada May 25, 1932
3 Claims. (Cl. 41—24)



1. The process of embossing celluloid with indicia such as numbers and letters by subjecting the celluloid to pressure between cold dies after the celluloid has been rendered soft and pliable by immersion in a hot bath of oil.

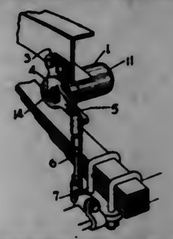
1,924,801
CONCRETE BUILDING
Russell C. Olmsted, Cliffside, N. J.
Application January 2, 1931. Serial No. 506,067
3 Claims. (Cl. 72—1)

1. A concrete building construction comprising a foundation course, reinforcing elements in said foundation course, attaching elements connected to said reinforcing elements and projecting through the foundation in a lateral plane, angle bars extending along the upper edge of said foundation, a wall course formed of reinforced pre-cast slabs, resting on end on said foundation, means for connecting the reinforcing elements of the foundation with the reinforcing elements of the slabs of the wall course through said attaching elements, a floor course supported



upon the upper edge of the wall course, a second wall course formed of reinforced pre-cast slabs supported on said floor course, and means for connecting the reinforcing elements of the slabs of the wall courses through said floor course.

1,924,802
SHOCK ABSORBER
William H. Orpen, Brooklyn, N. Y.
Application August 1, 1929. Serial No. 382,661
40 Claims. (Cl. 188—130)



34. A shock absorber comprising a cylinder having a friction-producing lining extending from end to end thereof, a shoe carrier journalled on said lining and a plurality of friction shoes on the carrier frictionally engaging said lining.

1,924,803
LOUD SPEAKER
Morris E. Paradise, Chicago, Ill., assignor to Grigsby-Grunow Company, Chicago, Ill., a corporation of Illinois
Application July 14, 1930. Serial No. 467,846
5 Claims. (Cl. 181—32)

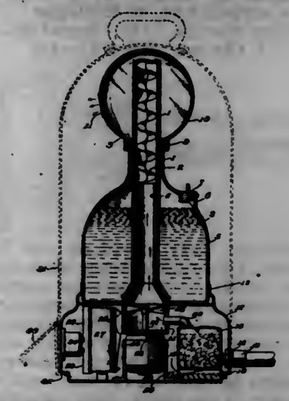


1. An acoustic diaphragm comprising a loosely woven material having its interstices filled with a stiffening agent and having its surface covered with a mixture of powdered metal and finely divided graphite in a suitable binder.

1,924,804
PROCESS FOR MAKING STAINLESS STEEL
Albert F. Piock, Niagara Falls, N. Y.
No Drawing. Application December 29, 1931
Serial No. 583,789
2 Claims. (Cl. 75—45)

1. A process of making an alloy containing iron and chromium which consists in forming a bath of molten iron, reducing its carbon content by use of an oxidizing flux, removing the oxidizing slag from the surface of the bath, protecting the bath of molten metal by adding lime and fluorspar to form a coating of slag of substantial thickness on the surface of the molten metal, and charging on top of the slag so formed a mixture of chromite and silicon-chromium alloy in pulverized form with lime and fluorspar, the silicon-chromium alloy containing approximately two parts of silicon to one of chromium.

1,924,805
APPARATUS FOR THE PRODUCTION OF GASEOUS OZONIDES
Lewis Hopkins Rogers, New York, N. Y., assignor to Knox Terpezone Company of America, New York, N. Y., a corporation of West Virginia
Application October 23, 1930. Serial No. 490,726
11 Claims. (Cl. 23—282)

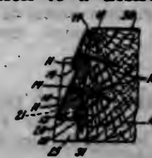


1. In apparatus for producing gaseous ozonides, a reservoir for pinene, a wick in said reservoir for absorbing pinene, a passage formed by said wick above the liquid level in said reservoir, and means for flowing ozonized air through the passage formed by said wick.

11. In apparatus for producing gaseous mixtures, a reservoir, an inner tube extending upwardly through said reservoir, an open spiral above said tube, a wick threaded on said open spiral and extending over said inner tube into said reservoir, said wick forming a closure between the said inner tube and said reservoir, and a base section supporting said reservoir, said base section housing means for forcing an air stream through said inner tube.

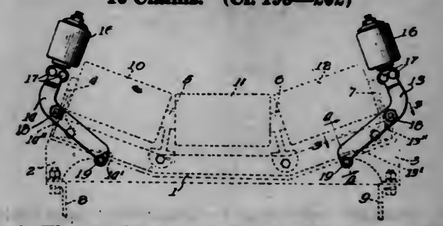
1,924,806
STRIKER PLATE
Walter S. Saunders, Pontiac, Mich., assignor to The American Forging and Socket Company, Pontiac, Mich., a corporation of Michigan
Application January 28, 1932. Serial No. 589,420
7 Claims. (Cl. 292—342)

4. In a striker plate for a door, a body portion substantially of the desired configuration of the finished plate and formed of relatively non wear-resisting material, means for securing the body portion to a desired support, and a



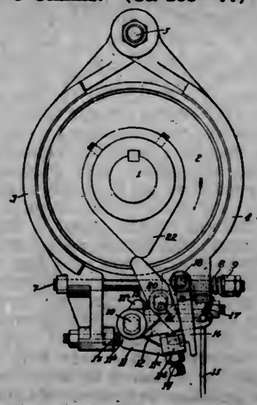
sheathing plate of relatively more wear-resisting spring metal, secured over the body portion and covering the securing means.

1,924,807
GUIDE ROLL MOUNT
William W. Sayers, Chicago, Ill., assignor to Link-Belt Company, a corporation of Illinois
Application July 28, 1930. Serial No. 471,404
10 Claims. (Cl. 198—202)



1. The combination with a belt conveyor idler of the type which includes a frame having a transverse beam and upstanding end brackets, of a guide roll mount including means for clamping the same to said beam and one of said brackets.

1,924,808
BRAKE CONTROL MECHANISM
Arthur H. Schloz, Toledo, Ohio, assignor to The Toledo Machine & Tool Company, Toledo, Ohio, a corporation of Ohio
Application November 24, 1930
Serial No. 497,672
9 Claims. (Cl. 188—77)



1. In a brake mechanism, a rotatable member, opposing brake members operable to normally have braking engagement with said rotatable member, pressure means operable to release said brake members from said rotatable member, catch means automatically operable to engage said pressure means when in brake releasing position, and hold it in such position, a control lever manually operable to move said pressure

means to brake releasing position, and means automatically operable at a predetermined point in a cycle of forward movement of said rotatable member to release said catch means from said pressure means.

1,924,809
LIQUID MEASURING DEVICE

Emil A. Schuelke and Julius Ross, Meriden, Conn., assignors to The Napier Co., a corporation of Connecticut

Application March 23, 1932. Serial No. 600,674
25 Claims. (Cl. 215—57)



1. Coaxial operatively connected separable measuring and pouring receptacles having an axial cork carrying tube and vent unit adjustable as a unit to connect said receptacles.

1,924,810
SURGICAL PLASTER PACKAGE

Otto C. Schulz, Riverside, Ill.

Application November 2, 1931. Serial No. 572,509
1 Claim. (Cl. 206—52)



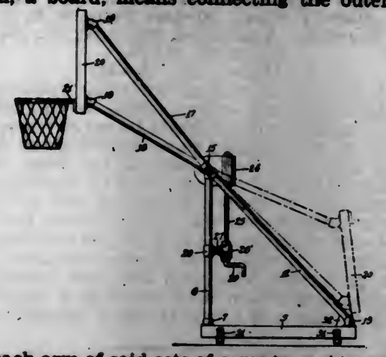
In a package for strip material wound on a spool having flanges at the sides thereof, a bottom having a groove therein spaced from the edges thereof and defining a marginal section, a side wall having the lower edge thereof disposed in said groove, said marginal section being folded inwardly and clamping said side wall in said groove to connect said bottom to said side wall, said bottom having a medially located outwardly offset portion on which said package may be rested and providing an inwardly opening recess spaced from said groove and adapted to receive one of the flanges on the spool, a top having a depending peripheral flange detachably embracing said side wall to retain said top in position, said top having a medially located outwardly offset portion providing an inwardly opening recess aligned with the recess in the bottom and adapted to receive the other flange on said spool, said top being telescoped onto said side wall to secure said flanges in said recesses to hold said spool in said package in spaced relation with said side wall.

1,924,811
BASKET BALL BACKSTOP

Otto C. Schulz, Riverside, Ill.

Application November 2, 1931. Serial No. 572,510
9 Claims. (Cl. 273—1.5)

1. In a device of the class described, a frame, a cross-bar carried by said frame, sets of arms pivotally mounted on said cross-bar in spaced relation, a board, means connecting the outer end

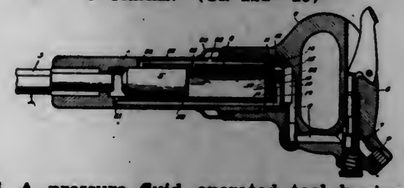


of each arm of said sets of arms to said board adjacent a corner thereof, and means for holding said board in a predetermined position.

1,924,812
PRESSURE FLUID OPERATED TOOL

Ernest H. Shaff, Grand Haven, Mich., assignor to William H. Keller, Inc., Grand Haven, Mich., a corporation of Michigan

Application May 26, 1930. Serial No. 455,524
5 Claims. (Cl. 121—19)



1. A pressure fluid operated tool having in combination, a piston chamber with a piston reciprocable therein, and means for controlling the movements of the piston comprising a valve casing at the rear end of the piston chamber and a valve member in the form of a thin sheet metal disk, said casing providing a chamber for the valve member having flat forward and rear faces spaced apart a distance only slightly greater than the thickness of said valve member, means for supplying pressure fluid to said valve chamber on either side of said valve member comprising a plurality of supply ports spaced a short distance apart about the peripheral edge of the valve chamber, a plurality of inlet ports spaced a short distance apart inwardly of the edge of said valve member and opening from the forward side of the valve chamber into the rear end of the piston chamber, the forward face of the valve chamber having a plurality of grooves leading inwardly from said supply ports between adjacent inlet ports.

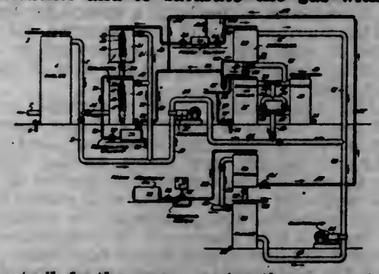
1,924,813
TREATMENT OF FUEL GAS

Frederick W. Sperr, Jr., Phoenix, Ariz., assignor to The Koppers Company of Delaware, a corporation of Delaware

Application April 21, 1931. Serial No. 531,725
4 Claims. (Cl. 183—114.6)

1. The process of treating fuel gas containing benzenoid constituents which comprises cooling the gas to substantially atmospheric temperature, scrubbing the gas with a solvent for benzenoid compounds, compressing the gas, cooling the gas to remove the heat of compression, scrubbing

the gas with absorbent oil to remove benzenoid constituents and to saturate the gas with ab-

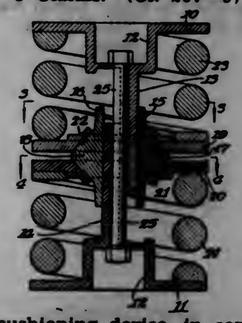


sorbent oil, further compressing the gas, and then cooling the gas.

1,924,814
CUSHIONING DEVICE

Donald F. Sproul, Chicago, Ill., assignor to Cardwell Westinghouse Company, a corporation of Delaware

Application July 6, 1931. Serial No. 548,917
3 Claims. (Cl. 267—9)



1. In a cushioning device, in combination, a pair of followers, helical spring means separating the followers, a pair of cooperating friction plates carried by the followers, shoes frictionally engaging the plates and each having a double faced wedge on its outer face, a pair of spaced plates apertured to permit the passage therethrough of the friction plates and shoes and each having wedge faces cooperating with the shoe wedges, the spaced plates extending laterally between adjacent turns of the spring means.

1,924,815
PROCESS OF MAKING FELT PAPER PULP

Max Skolnik, Chicago, Ill., assignor to Skolnik Patents Corporation, Chicago, Ill., a corporation of Indiana

Application February 29, 1932. Serial No. 595,813
21 Claims. (Cl. 92—13)

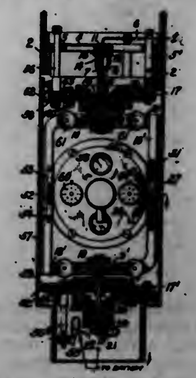


1. The method of producing felt fibers from straw which consists in treating the straw with a caustic chemical to remove the lignins, washing the straw in a soapy solution, and neutralizing the resultant fibers with an acid.

1,924,816
DIRECTIONAL GYROSCOPE FOR BOREHOLE TESTERS AND OTHER USES

Elmer A. Sperry, Jr., Brooklyn, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York

Application January 9, 1930. Serial No. 419,483
12 Claims. (Cl. 74—78)

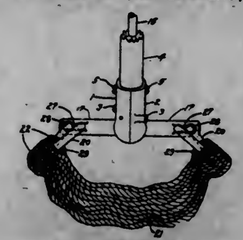


1. In an electrically spun gyroscope comprising a two-part outer ring, bearing means at opposite sides thereof for pivoting the same about an axis, anti-friction means for leading current in at each pivotal means, a gyro rotor, a spinning motor and a multi-part casing for said rotor and motor, anti-friction bearings for pivotally supporting said casing between the two parts of said ring, and electrical connections between opposite parts of said casing and the windings of said motor.

1,924,817
COMBINED MOP AND MOP WRINGER

John W. Tatter, Detroit, Mich., assignor, by mesne assignments, of one-half to Ella I. Ingersoll, Dearborn, Mich.

Application December 28, 1929
Serial No. 417,074
18 Claims. (Cl. 15—120)



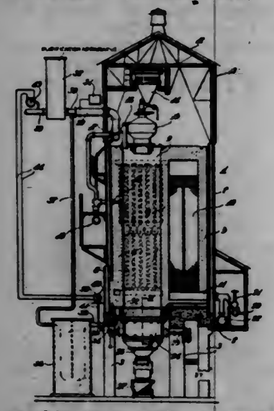
5. In a combined mop and mop wringer, the combination of a mop element, a pair of concentric handle members extending approximately at right angles to said mop element, and means for revolving each end of said mop element in opposite directions about an axis extending approximately transversely to the longitudinal axes of said handle members, said means being connected to the opposite ends of said mop element, said means being operatively connected with one of said handle members.

1,924,818
ELECTRIC SWITCH
William C. Tregoning, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application July 15, 1931. Serial No. 550,824
9 Claims. (Cl. 200—67)



9. As an article of manufacture, a molded porcelain base for electric snap switches and the like, said base having a relatively deep substantially rectangular recess formed therein and opening to the upper surface thereof, a barrier located within said recess and formed integrally with the bottom wall and one of the end walls of the latter and a glazed coating formed on one vertical face of said barrier, all other portions of said base being in unglazed condition.

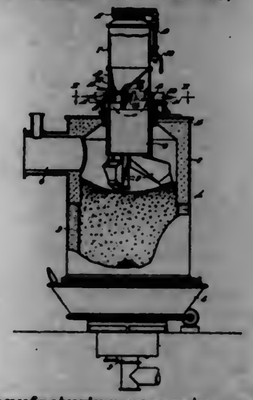
1,924,819
APPARATUS FOR PRODUCING GAS IN COKE OVENS
Joseph Van Ackeren, Pittsburgh, Pa., assignor to The Koppers Company of Delaware, a corporation of Delaware
Application August 11, 1927. Serial No. 212,203
2 Claims. (Cl. 202—121)



1. The combination with a vertical coking retort oven having a main for receiving gas therefrom, and means for supplying steam for quenching coke at the base of said oven and in communication therewith, said steam tending to enter said oven to form water gas which combines with the coke-oven gas therein, of a pipe for withdrawing a portion of said steam used in quenching said coke and before it enters said oven, a regulator comprising a device for measuring the thermal value of the combined gas, and a valve in said pipe that is controlled by said measuring device for varying the flow of steam in said pipe.

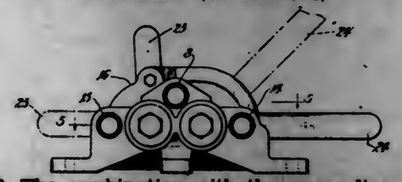
2. The combination with a vertical coking retort oven having a supporting frame therebeneath provided with horizontal ducts and a refractory lining for said frame having vertical ducts therein for connecting the interior of said frame with said horizontal ducts, of means comprising fluid-injecting apparatus for quenching coke beneath said frame and in communication therewith whereby steam enters said frame, and means for withdrawing a portion of said steam through said vertical and said horizontal ducts and thereby cooling said frame.

1,924,820
GAS PRODUCER
Joseph Van Ackeren, O'Hara Township, Allegheny County, Pa., assignor to The Koppers Company of Delaware, a corporation of Delaware
Application July 9, 1931. Serial No. 549,604
5 Claims. (Cl. 214—35)



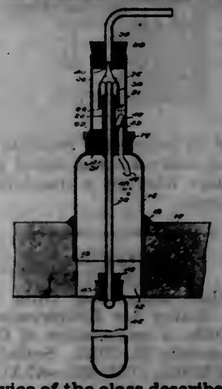
1. Gas-manufacturing apparatus comprising a charging hopper, a top closure therefor, a bottom closure for said hopper having a hinged connection thereto, and means for providing a liquid seal between said hopper and said bottom closure when the latter is in its closed position, said means comprising a pipe constituting a portion of said hinged connection.

1,924,821
CONTROL SYSTEM FOR CAR COUPLERS AND ELECTRIC CIRCUITS
Herbert E. Van Dorn, Chicago, Ill., assignor to William E. Van Dorn, Pasadena, Calif.
Application July 25, 1928. Serial No. 295,333
11 Claims. (Cl. 172—332)



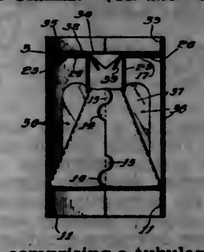
6. The combination with the uncoupling cylinder and the switch-closing cylinder of an automatic car and electric system including a pipe adapted automatically to be supplied with air upon a coupling being made and to be vented to atmosphere upon uncoupling, of separate valves each adapted to connect one of the cylinders alternately to said pipe and to atmosphere, the valve for the uncoupling cylinder having an intermediate position in which it interrupts communication of the uncoupling cylinder both with said pipe and with the outside air, and an interlock between said valves to prevent the uncoupling cylinder from being connected to said pipe except when the switch cylinder is open to atmosphere and to permit the free operation of the valve for the switch cylinder while the other valve is in said intermediate position.

1,924,822
CELL FEED
Frank G. Wheeler and Harold H. Heller, Appleton, Wis., assignors to Bleach Process Company, Neenah, Wis., a corporation of Wisconsin
Application April 10, 1930. Serial No. 443,211
15 Claims. (Cl. 204—5)



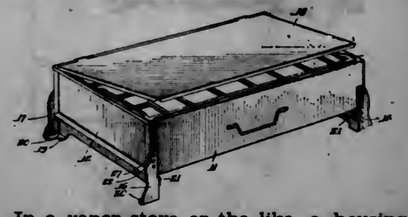
1. In a device of the class described and in combination with a cell closure, a housing arranged above said closure and having a liquid inlet therein, a float extending through said closure and into said housing, a valve carried by said float and adapted to close said inlet, said device having a passage for gas into said housing from the cell and a passage for liquid from said housing into the cell, and means controlling the flow of liquid through said last-mentioned passage whereby said liquid will be aerated.

1,924,823
COMPARTMENTED CARTON
Frederick D. Willi, Chicago, Ill., assignor to Hump Hairpin Manufacturing Company, Chicago, Ill., a corporation of West Virginia
Application October 10, 1932. Serial No. 637,117
4 Claims. (Cl. 229—7)



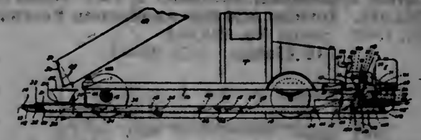
1. A carton comprising a tubular member having a bottom and apertured top, a frustro-pyramidal member positioned upon said bottom within said tubular member, partitions disposed between the surface of the frustro-pyramidal member and the inner walls of the tubular member dividing the interior of the tubular member into a plurality of compartments.

1,924,824
VAPOR STOVE
Anton J. Yeager, Wisconsin Rapids, Wis., assignor to Prentiss Wabers Products Co., Wisconsin Rapids, Wis., a corporation of Wisconsin
Application September 23, 1931
Serial No. 564,569
2 Claims. (Cl. 126—306)



1. In a vapor stove or the like, a housing, a hinged cover for the housing, sheet metal legs pivoted to the housing, and having flat portions extending parallel with and adjacent the ends, sides and top of the housing in the closed position, the portions which extend adjacent the ends in the closed position extending across underneath and in contact with the bottom of the housing when in the supporting position.

1,924,825
SAND SPREADER
Lewis M. Young, Norwich, Conn.
Application August 4, 1932. Serial No. 627,446
7 Claims. (Cl. 275—3)



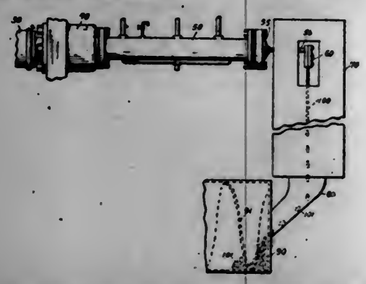
1. In a sand-spreading machine, a horizontal distributing wheel, a normally vertical axis on which said wheel rotates, a friction pulley engaging said wheel to drive the same, means for adjusting said pulley radially of said wheel to vary the speed of the wheel, and means for tilting the axis of rotation of said wheel without disengaging it from said pulley.

2. A sand-spreading machine comprising a self-propelled sand truck having a discharge opening at the rear, a long narrow frame supported beneath said truck between the traction wheels thereof and extending in front of the truck, a conveyor carried by said frame, a hopper mounted on said frame over the rear end of said conveyor in line with the discharge opening of the truck, the extending front part of said frame carrying a sand-spreading wheel and an engine, said wheel being mounted to receive sand from the discharge end of said conveyor, and means for connecting said conveyor and wheel to said engine for simultaneous operation.

1,924,826
PRODUCTION OF PUFFED PRODUCTS
Alexander Pierce Anderson, Red Wing, Minn., assignor to Anderson Puffed Rice Company, Chicago, Ill., a corporation of New Jersey
Application November 8, 1927. Serial No. 231,925
13 Claims. (Cl. 99—10)

1. The process of producing puffed hollow articles from vegetable materials which comprises

extruding plasticized vegetable material from an annular orifice under conditions of heat and pressure to form a tube of puffed vegetable material, said tube having its wall and its diameter greatly expanded on release from said orifice by reason of the release of the moisture in the form of steam from said material, cutting said tube into pieces and sealing the ends of said pieces to produce puffed hollow articles.



12. A cereal food product comprising a hollow body having walls of substantially uniform thickness and consistency forming a complete shell of cooked edible material and being in the shape of a tube with its ends pinched together along a transverse line.

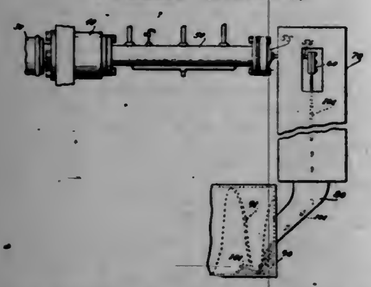
1,924,827

PRODUCTION OF PUFFED PRODUCTS

Alexander Pierce Anderson, Red Wing, Minn., assignor to Anderson Puffed Rice Company, Chicago, Ill., a corporation of New Jersey

Original application November 8, 1927, Serial No. 231,925. Divided and this application February 25, 1932. Serial No. 595,085

16 Claims. (Cl. 99—2)



1. An apparatus for making a puffed product, comprising a pressure chamber having a plurality of openings therein, elongated tubes aligned with said openings and connected thereto, a heating jacket surrounding said tubes for at least a portion of their length, a header for said tubes at the end thereof opposite to their connection with said pressure chamber, one or more extruding nozzles in said header, and means for conveying material extruded from said nozzle out of said apparatus.

1,924,828

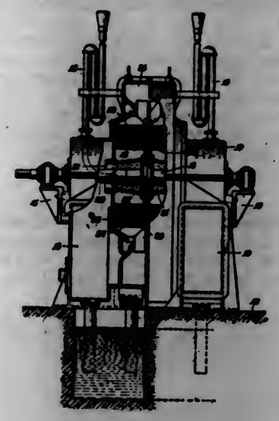
DISINTEGRATOR

Max Aurig, Munich, Germany

Application May 9, 1931. Serial No. 536,243

9 Claims. (Cl. 261—90)

1. A disintegrator gas washer comprising in combination, alternate rows of rotating and stationary disintegrator bars, said rotating bars being so arranged that any reaction to the normal flow of gas is more centrifugal than centripetal, and said stationary bars having a shape to provide broad surfaces and being arranged with their



broad surfaces in transverse position to the passage of the gas and cleaning liquid propelled by the rotating bars whereby a maximum cleaning effect is produced.

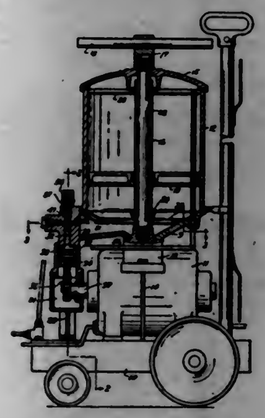
1,924,829

POWER PUMP

Rollin L. Bacher, Lakewood, Ohio, assignor to The United States Air Compressor Company, Cleveland, Ohio, a corporation of Ohio

Application January 10, 1930. Serial No. 419,781

4 Claims. (Cl. 221—47.1)



1. In combination, a grease tank, a follower plate movable vertically therein and adapted to rest upon the grease within the tank, a guide member extending vertically through the tank and adjacent the midportion thereof, the follower plate being slidably mounted along said member, the member having a shoulder adjacent the bottom thereof for engaging the underside of the follower and there being a plate mounted rigidly on the member adjacent the top thereof, said plate functioning to prevent refilling of the tank until the follower is removed.

1,924,830

BRACKET

Rexford P. Bennett, Honesdale, Pa., assignor to Clover Leaf Manufacturing Co., Honesdale, Pa., a corporation of Pennsylvania

Application August 18, 1932. Serial No. 629,267

1 Claim. (Cl. 308—15)



A bracket of the character described having opposite arms, each adapted to support a multi-notched bobbin bearing member disposed against the inner side of the arm, and having a base portion connecting said arms, an integral formation protruding inwardly from the inner side of each arm and protruding upwardly from the base portion and adapted to be engaged in a notch of a bobbin bearing member mounted against the inside of the arm, whereby the bearing members are held against rotation on the arms.

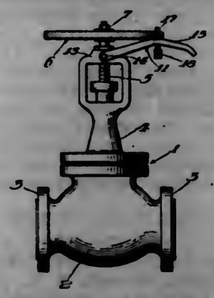
1,924,831

VALVE LOCKING MEANS

George A. Bockman, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota

Application July 21, 1930. Serial No. 469,481

3 Claims. (Cl. 70—123)



1. In combination, a valve, a bonnet upon said valve for supporting a valve stem, a valve wheel mounted upon said valve stem, means associated with the valve wheel and the remaining portion of the valve for locking said wheel in a predetermined position, comprising an arm pivotally connected to said bonnet, the opposite end of said arm being provided with a slot which registers with one of a plurality of apertures provided in the rim of the valve wheel, and means passing through said slot and said registering aperture for locking said wheel with respect to said arm.

1,924,832

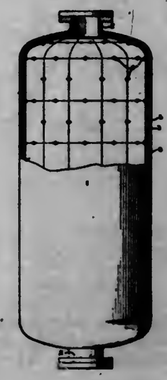
PROTECTIVE LINING FOR VESSELS

Ralph H. Brandt, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota

Application October 15, 1930. Serial No. 488,822

10 Claims. (Cl. 220—63)

1. In combination, a vessel having a plurality of loops projecting from the inner surface thereof, a plurality of plates having overlapping edges covering and disposed adjacent said inner surface, and means for locking the protruding ends of



said loops and the overlapping edges of said plates.

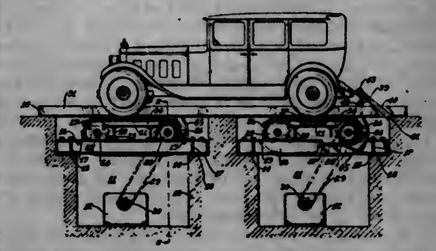
1,924,833

BRAKE TESTING APPARATUS

Robert N. Brown, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application October 12, 1927. Serial No. 225,661

2 Claims. (Cl. 73—51)



1. Brake testing apparatus for motor vehicles comprising supporting means having a pit therein, guide tracks for the vehicle wheels on the supporting means and extending across the pit, endless treads supported in said pit and arranged to extend thereacross substantially flush with said wheel tracks, power measuring devices connected to drive said endless treads, a stop member pivoted to the tracks to cooperate with the vehicle body, and a movable bracing member extending between the stop member and the walls of the pit.

1,924,834

FENCE CONSTRUCTION

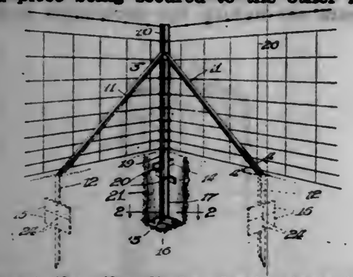
Frank G. Carrel, Western Springs, Ill., assignor, by mesne assignments, to Calumet Steel Company, Chicago, Ill., a corporation of Delaware

Application July 12, 1930. Serial No. 467,469

3 Claims. (Cl. 189—29)

1. A fence post of angle section for a fabricated fence construction having a combination foot and anchor member, said member comprising a plurality of short lengths of angle pieces, the vertical limbs of two of said pieces being secured to one limb of said post and the vertical limb of a

third piece being secured to the other limb of



said post, the other limbs of said pieces forming an extended supporting footing for the post.

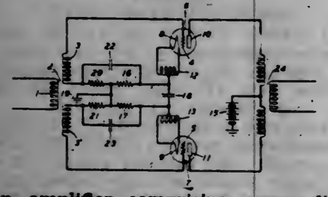
1,924,835
SHOE MAKING
Ford C. Close, New York, N. Y.
Application February 17, 1931. Serial No. 516,344
5 Claims. (Cl. 41—10)



1. The method of providing a cover for wooden and other heels than those built up of a plurality of leather lifts such cover for giving the heel covered thereby an appearance realistically suggesting that said heel is actually built up of a plurality of leather lifts,—which involves creating a plane development of a rotund surface of an actual leather-lift heel by providing a plurality of leather strips each cut from a leather sheet substantially in the plane of the thickness thereof to display the cross-sectional grain of the leather substantially as it is exposed in an actual leather-lift heel; assembling said strips in edge to edge relation to generate a plane development of said rotund surface; employing a photomechanical process to reproduce the last-mentioned development; and transferring such reproduction to a sheet material.

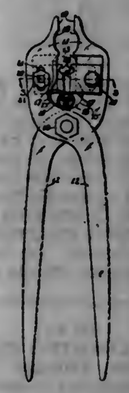
3. A cover for wood heels comprising a sheet of heel covering material, a transfer film adhesively united to the surface of said sheet and bearing substantially a reproduction of the developed sides and rounded rear end of a built up leather heel, said transfer film showing the grain of the leather and the edges of the heel lifts in their usual relationship to each other.

1,924,836
AMPLIFIER
Van M. Cousins, Lyndhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York
Application September 30, 1932
Serial No. 635,477
6 Claims. (Cl. 179—171)



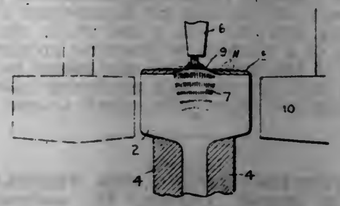
1. An amplifier comprising space discharge devices arranged in push-pull relation, individual grid bias resistors in the anode circuits of said devices and a two-terminal impedance connected between the cathodes of said devices short circuiting said resistors for alternating current of the frequency to be amplified.

1,924,837
ELECTRICIAN'S TOOL
William Crause, Vauxhall, N. J.
Application June 28, 1932. Serial No. 619,642
5 Claims. (Cl. 81—9.5)



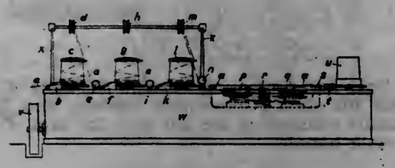
1. An electrician's tool, comprising a pair of crossed members pivotally connected at the crossing point and one of the ends forming handles and the other ends contacting gripping jaws, adjacent faces of said jaws being laterally recessed and opposed faces being formed with opposed recesses, and shearing blades adjustably mounted within said lateral recesses and spaced longitudinally from the pivot of said jaws and intersecting said opposed recesses providing a space in which B. X. wire may be placed so that the top portion of the B. X. wire is cut when the jaws are closed.

1,924,838
METHOD OF REFORMING RAIL ENDS
Charles A. Daley, Hornell, N. Y., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application November 12, 1931
Serial No. 574,554
8 Claims. (Cl. 29—169)



5. The method of reforming rail ends in track, which comprises heating the ball of each rail end and applying forces transversely of the ball and also between the rail ends to bring their lowered treads approximately up to level.

1,924,839
METHOD AND MACHINERY FOR DRAWING WIRE
Johannes Friedrich Diehl, Herborn, Germany, assignor to the firm of Berkenhoff & Drebes A. G., Asslar, near Wetzlar-on-the-Lahn, Germany, a joint-stock company of Germany
Application April 20, 1932, Serial No. 606,329, and in Germany April 25, 1931
8 Claims. (Cl. 205—21)



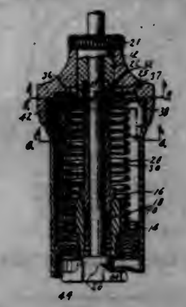
1. The method of drawing wire, which consists in imparting a continuous longitudinal movement to the wire and during such continuous movement subjecting the wire portion which has the original diameter to a positive drawing operation which reduces such diameter while said wire portion travels longitudinally at a relatively low speed, while at the same time another portion of the wire, the diameter of which portion has been reduced by said positive drawing operation, is subjected to a slip drawing operation which further reduces the diameter of the wire while said last-mentioned wire portion travels longitudinally at a relatively high speed.

1,924,840
METHOD FOR THE COMPENSATION OF CAPACITY UNBALANCES IN THE GROUPS OF CORES OF TELEGRAPH AND TELEPHONE CABLES
Hans Walter Droste, Nuremburg, and Hans Kirchdörfer, Malmsbach, near Nuremburg, Germany
Application February 15, 1932, Serial No. 593,166, and in Germany June 7, 1930
12 Claims. (Cl. 179—79)



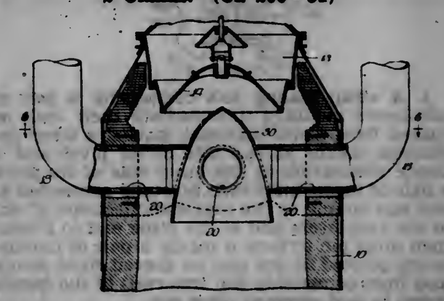
1. In a telegraph or telephone cable having at least one group of conductor cores, means for compensating the capacity unbalances, in said cores, including two cores in said group whose partial capacity is subdivided into several partial capacities, means connecting said partial capacities in series comprising insulated layers which are at least semi-conductive and disposed between each conductor of said two cores and the insulation thereof, and means short-circuiting one or more of said partial capacities in order to alter said first partial capacity of said two cores.

1,924,841
GREASE GUN PISTON AND RESERVOIR LATCH
Ivan L. Eastman, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application March 2, 1933. Serial No. 659,363
22 Claims. (Cl. 221—47.3)



1. In a grease gun reservoir construction, a spring extended piston, a retracting rod therefor, a latch for coaction with said piston to latch it in retracted position, a rotatable sleeve surrounding said rod, said sleeve having a hand engaging portion located exteriorly of the reservoir and means engageable by said sleeve to release said latch when an operator's hand engages said portion and thereby rotates said sleeve.

1,924,842
BLAST FURNACE
Alfred J. Ebner, Chicago, Ill., assignor to Freyn Engineering Company, Chicago, Ill., a corporation of Maine
Application October 30, 1931. Serial No. 571,955
2 Claims. (Cl. 266—31)

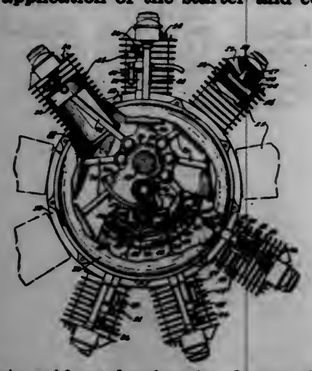


2. In a blast furnace, in combination with a hopper and charging bell, of conduits communicating with the charging portion of the furnace, a dome shaped member connecting the conduits and being located directly below the charging bell, said member having an opening in its base directly downwardly and extending below the stock line.

1,924,843
INTERNAL COMBUSTION ENGINE
Herbert C. Edwards, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application November 21, 1930
Serial No. 497,220
14 Claims. (Cl. 123—179)

1. In an internal combustion engine, the combination of compression ratio controlling mech-

anism, a starter, and means operated by and during application of the starter and connected

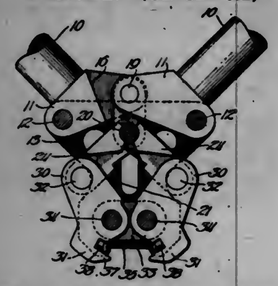


to actuate said mechanism to change the compression ratio.

1,924,844
SEALING TOOL

Russell T. Edwards, Chicago, Ill., assignor to Signode Steel Strapping Company, Chicago, Ill., a corporation of Delaware

Application July 3, 1929. Serial No. 375,733
4 Claims. (Cl. 81—9.1)



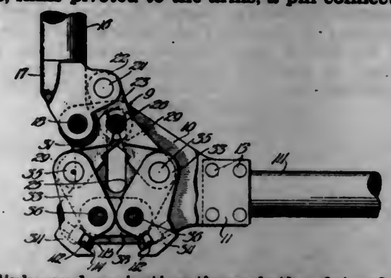
1. A strap sealing tool comprising a pair of jaw-levers mounted intermediate their ends on spaced fixed pivots and each having a strap deforming means at one side of its pivot and a toggle connection at the other side of its pivot, a pair of toggle links each pivotally connected at one end to one of the toggle connections of one of the jaw-levers and at the other end to a common pivot pin to form a toggle, a pair of handle-levers pivoted at one end on spaced fixed pivots, and links connecting the free ends of the handle levers to said common pivot pin.

1,924,845
SEALING TOOL

Russell T. Edwards, Chicago, Ill., assignor to Signode Steel Strapping Company, Chicago, Ill., a corporation of Delaware

Application July 3, 1929, Serial No. 375,734
Renewed February 2, 1933
4 Claims. (Cl. 81—9.1)

1. A sealing tool for producing a seal joint between the overlapped ends of a strapping band, comprising a head having side plates, a stationary handle positioned between and connected to said side plates, a movable handle pivoted between said side plates and having an arm, said side plates having transverse slots, a pair of jaws individually pivoted between said plates, a pressure block stationarily held by said pivots and positioned parallel to the sides of the plates opposite the pivot of the movable handle, arms on said jaws, links pivoted to the arms, a pin connecting

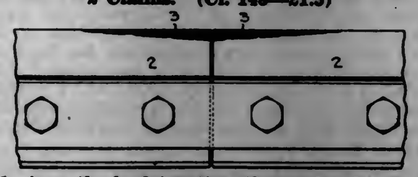


the links and projecting through the slots of the plates for sliding movement therein, and links pivotally connecting the pin with the arm of the movable handle.

1,924,846
METHOD OF TREATING RAILROAD TRACK MEMBERS

Charles A. Daley, Hornell, N. Y., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York

Application May 8, 1931. Serial No. 535,863
2 Claims. (Cl. 148—21.5)

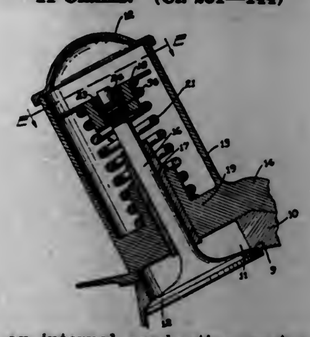


1. A method of treating the ends of railroad rails in the track which comprises quickly heating the upper tread portions of the same above the critical range of the steel, at and adjacent the ends only, quenching the heated regions to about 300° F., and then reapplying heat to the said portions so that they are reheated to about 650° F., substantially as and for the purpose set forth.

1,924,847
INTERNAL COMBUSTION ENGINE

Herbert C. Edwards, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application December 4, 1931. Serial No. 579,602
11 Claims. (Cl. 251—144)

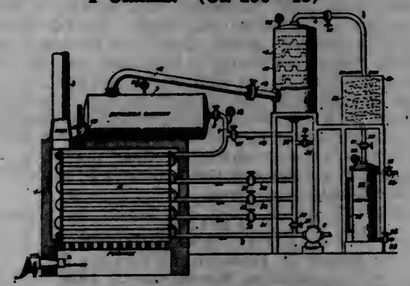


2. In an internal combustion engine, a valve stem having screw threads and flat faces formed thereon, a spring supporting collar encircling the valve stem and having a tapered axial bore, a tapered split key wedgingly engaging the tapered surface of the collar and being formed with screw threads engaging the threads on the valve stem in mating relation, the inner peripheral surface of the key being formed with flat faces engaging the flat faces of the valve stem to relatively fix the valve stem and the key.

1,924,848
PROCESS AND APPARATUS FOR CRACKING OIL

Gustav Egloff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota

Continuation of application Serial No. 430,869, December 15, 1920. This application July 10, 1926, Serial No. 121,715. Renewed October 2, 1930
4 Claims. (Cl. 196—48)



1. A process for cracking hydrocarbon oil consisting in passing the oil to be treated through a coil disposed within a furnace wherein it is raised to a cracking temperature, in delivering the heated oil to an enlarged reaction zone wherein conversion occurs and substantial vaporization of the oil takes place, in subjecting the vapors to reflux condensation to separate therefrom the insufficiently cracked fractions, in returning the reflux condensate to said coil for retreatment and during the operation of the process changing the character of the oil charged to said coil and simultaneously with the changing of the character of the oil charged to said coil changing the point in the length of said coil to which the reflux condensate is returned, and in maintaining a superatmospheric pressure on the oil undergoing treatment in the process.

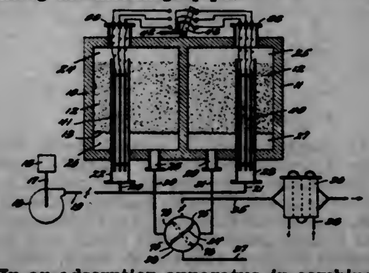
3. An oil cracking apparatus comprising a heating coil disposed within a furnace, a vapor separating chamber, a transfer line connecting the outlet end of said coil with said chamber, a dephlegmator in vapor communication with said chamber, means for introducing reflux condensate formed in said dephlegmator to said transfer line without passage thru said coil, additional means for introducing reflux condensate to said coil at a point intermediate the ends thereof, and a final condenser communicating with said dephlegmator.

1,924,849
ADSORPTION SYSTEM

Bayard P. Fonda, Baltimore, Md., assignor to The Silica Gel Corporation, Baltimore, Md., a corporation of Maryland

Application October 21, 1931. Serial No. 570,207
4 Claims. (Cl. 183—4)

1. In a dehydrating system, in combination, a pair of adsorbers each having an inlet and an outlet, a heater for each inlet, single air delivery means always connected directly to both heaters, a dehydrated air discharge pipe, an activating air discharge pipe, a valve to selectively connect one absorber to each discharge pipe, and means actuated by operation of the valve to actuate the heater of the adsorber connected to the activating air discharge pipe.

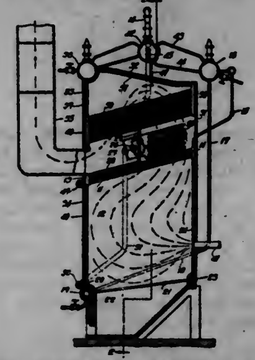


4. In an adsorption apparatus, in combination, a pair of contiguous adsorber casings elevated above a base, a horizontal bed of adsorbent material spaced from the top and bottom of each casing, an inlet tube through the bottom of each casing and extending through the bed therein, a heater housed in each tube, an outlet conduit from the bottom of each casing; a fan, a dehydrated air cooler and a valve on said base beneath said casings, a pipe connecting the fan to both of said tubes, an activating gas exhaust tube; said conduits, tube and cooler being connected to said valve, and means to actuate said valve to alternately connect the casing outlets to the cooler and exhaust tube.

1,924,850
BOILER

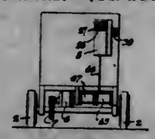
Jay A. Freiday, East Orange, N. J., assignor to Metropolitan Engineering Company, Brooklyn, N. Y., a corporation of New York

Application July 26, 1930. Serial No. 470,863
9 Claims. (Cl. 122—235)



1. A steam generator having a casing in the lower part of which is a combustion chamber and in the upper part of which are two banks of approximately horizontal steam generating tubes with an open space between one bank and the other, means for circulating water and steam through said tubes, and means for directing the heating gases from the combustion chamber upward through the first and second banks of tubes and then downward over the second bank and then into said open space and out of the casing, the passage from said open space to the outside of the casing being unrestricted by the steam generating and circulating elements of the apparatus.

1,924,851
ELECTRIC VEHICLE
Harold D. Gumpper, Detroit, Mich., assignor to Marjorie Teakle Gumpper, Detroit, Mich.
Application August 2, 1929. Serial No. 383,106
5 Claims. (Cl. 290—17)



1. An electric vehicle comprising a wheeled chassis, a generator thereon, means for driving said generator, a driving motor geared to the wheels of said vehicle and connected to said generator, a controller having fixed elements connected to said generator and motor and having a movable element adapted to make, break and reverse a circuit through said generator and motor, an operating lever pivotally attached to said movable element and movable rigidly with said movable element for adjusting the same to make, break, or reverse the circuit, and linkage from said lever to said generator driving means for controlling the latter and operable on pivotal movement of said lever relatively to said movable element.

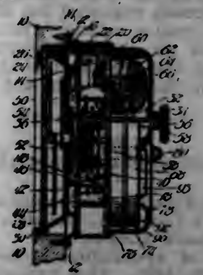
1,924,852
WINDOW CLEANING DEVICE
Ande Belles Halsey, New York, N. Y.
Application April 29, 1932. Serial No. 608,186
3 Claims. (Cl. 15—232)



1. A window cleaning device comprising a resilient handle, a head carried by said handle, said head including a pair of wire frames of different sizes but like shape joined by inwardly extending angularly bent connecting portions and disposed in substantial parallel relation over which a wiping cloth is adapted to be arranged, and a split resilient clamping member for coaction with said angular connecting portions for securing a wiping cloth in clamped position upon said head.

1,924,853
ALTERNATING CURRENT CLOCK
Laurens Hammond, Evanston, Ill., assignor, by mesne assignments, to The Hammond Clock Company, Chicago, Ill., a corporation of Delaware
Application September 5, 1929. Serial No. 390,551
17 Claims. (Cl. 172—275)

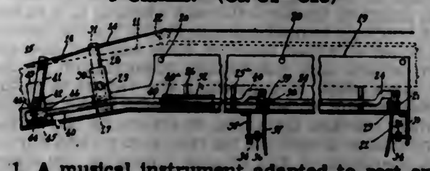
1. In a device of the class described, the combination of a casing, a pair of pole plates secured therein, said plates having a plurality of pole projections, a notched plate rotor cooperable with said pole projections, a pinion located outside of said casing, means for operatively connecting said rotor with said pinion, and means outside of said casing for causing an alternating magnetic flux to pass through said pole plates thereby to rotate said rotor.



2. In a synchronous motor for driving an alternating current clock, the combination of frame plates, a shaft carried between said plates, pole pieces positioned adjacent said shaft, a rotor rotatably mounted on said shaft and co-operating with said pole pieces, said rotor having a hub, inertia elements rotatably mounted on said hub, and a driving pinion secured to said hub.

14. A device of the class described comprising a fixed load mechanism, an electric coil mounted on the mechanism, and an enclosed removable driving unit comprising stationary magnetic pole pieces and a magnetic rotor mounted for rotation adjacent said pole pieces.

1,924,854
MUSICAL INSTRUMENT
Arthur R. Harmon, La Grange, Ill.
Application November 25, 1932
Serial No. 644,246
9 Claims. (Cl. 84—318)

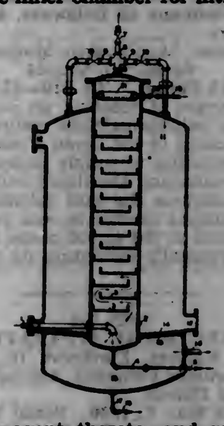


1. A musical instrument adapted to rest on a leg of the player comprising a sound box and a neck, a plurality of strings thereon, individual string tensioning members for certain of said strings, and mechanism carried by said neck and operable by the leg of the player for selectively actuating said members for varying the tension of the respective strings for modifying the pitch thereof.

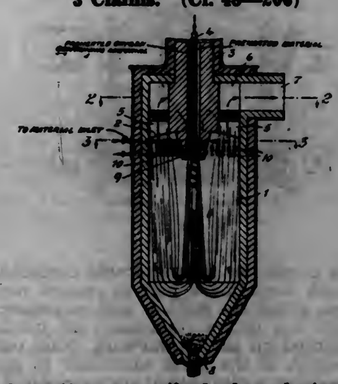
1,924,855
TREATMENT OF HYDROCARBON OILS
Jacob Benjamin Heid, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota
Application August 29, 1930. Serial No. 478,611
8 Claims. (Cl. 196—96)

1. A process for treating hydrocarbon vapors comprising passing vapors upwardly through a treating zone to contact with an acid reagent therein, withdrawing the vapors from said zone and reversing the flow thereof, the vapors then passing for further treatment through a second treating zone in the presence of a neutralizing treating agent.

4. Apparatus for the treatment of hydrocarbon vapors which comprises an inner chamber, means disposed at the lower portion thereof whereby vapors are introduced into the chamber, means at the upper portion of the chamber whereby vapors may be removed therefrom, an outer chamber surrounding the said inner chamber, and adapted to receive the vapors as they are removed from the inner chamber, means associated with the inner chamber for introducing liquid treating agent thereto, and means in the outer chamber for receiving and supporting solid treating material therein.



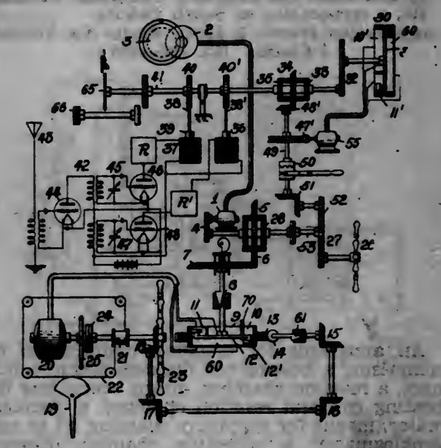
1,924,856
CONTINUOUS GAS MANUFACTURE
Oswald Heller, Berlin, Germany
Application March 23, 1932, Serial No. 600,665, and in Germany February 7, 1931
3 Claims. (Cl. 48—206)



3. A continuous method of producing a combustible gas, which comprises mixing concentric downwardly directed jets of oxygen and a mixture of steam, powdered carbonaceous fuel, and a substance of the group consisting of water gas, double gas and illuminating gas, such mixture being heated to a temperature of substantially 600 to 1000° C., causing the substances to react, then directing the products of such reaction upward around the jets and contacting therewith, and conducting off such products of reaction at a point above the point of mixture of said jets.

1,924,857
WIRELESS CONTROLLED AUTOMATIC PILOT
Frederick S. Hedgman, Glen Rock, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application December 10, 1931
Serial No. 580,044
4 Claims. (Cl. 172—282)

1. In a radio-controlled means for automatically steered ships, the combination with the automatic steering gear including a master controller and a course changing device, of remotely controlled power means for turning said device including an auxiliary controller, radio controlled means for turning the same through the angle by which the course is to be changed, and a power motor driven thereby for turning said course changing device.

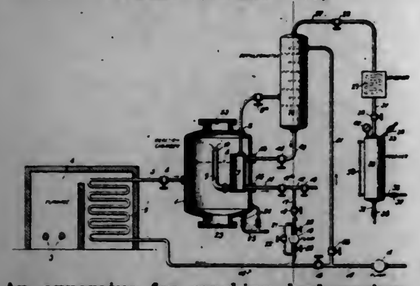


1,924,858
PRICE TICKET HOLDER
Leo Hopp, New York, N. Y., assignor of one-half to Harriet Gold and one-half to George Hopp, both of New York, N. Y.
Application February 4, 1932. Serial No. 590,869
4 Claims. (Cl. 248—7)



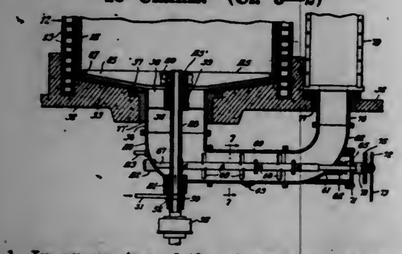
4. A device of the character described comprising a base, a tubular member having a notch therein carried by the base, a second member freely slidable in the tubular member, and means carried by the tubular member and engaging the slidable member through the notch of the tubular member to maintain the slidable member in holding frictional engagement with the tubular member, said last mentioned means comprising a coil spring surrounding said tubular member adjacent said notch certain of the convolutions of said coil spring being distorted through the notch to a position where they intercept the passage through the tubular member.

1,924,859
APPARATUS FOR TREATING HYDROCARBONS
William R. Howard, Washington, D. C., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota
Application March 4, 1927. Serial No. 172,839
1 Claim. (Cl. 196—107)



An apparatus for cracking hydrocarbon oil comprising a heating coil disposed within a furnace, a reaction chamber, means connecting the heating coil and reaction chamber, a dephlegmator, means for supplying charging oil to said dephlegmator, a collecting chamber disposed within said reaction chamber, means for passing charging oil from the dephlegmator to said collecting chamber to accumulate in said collecting chamber in heat interchange relation with liquid oil delivered to the reaction chamber from the heating coil, means for passing vapors evolved in the reaction chamber through the accumulated oil in said collecting chamber to the dephlegmator, and means for returning liquid oil from the collecting chamber uncommingled with unvaporized oil from the reaction chamber to the heating coil.

1,924,860
APPARATUS FOR BLEACHING PULP
Hans John, Appleton, and Clarence C. Le Febvre and Horace Du Bois, Neenah, Wis., assignors to Paper Patents Company, Neenah, Wis., a corporation of Wisconsin
Original application May 20, 1931, Serial No. 538,650. Divided and this application December 22, 1931. Serial No. 582,566
13 Claims. (Cl. 8—2)

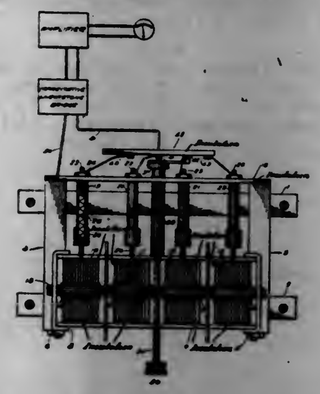


1. In apparatus of the class described, a reaction chamber having side walls and a bottom wall with an outlet in the central portion thereof, a tubular shaft, a hollow scraper mounted on said shaft adjacent said bottom wall and communicating with said shaft, said scraper comprising a pair of oppositely curved arms arranged on opposite sides of said shaft, said arms having nozzles adjacent their extremities, said nozzles extending in a direction for projecting fluid in the direction of travel of said arms into said chamber, means for conducting liquid to said shaft, and means for rotating said shaft.

1,924,861
TREATMENT OF LIQUIDS
Wilber Judson, Newgulf, Tex., assignor to The Koppers Company of Delaware, a corporation of Delaware
No Drawing. Application March 10, 1931 Serial No. 521,514
11 Claims. (Cl. 210—23)

1. The process of treating an aqueous liquid containing a soluble calcium compound, which comprises adding to the liquid a compound capable of dissociating to supply phosphate ions to the liquid, contacting the liquid with carbon dioxide to decompose the said calcium compound and from calcium carbonate, and retaining calcium carbonate in the liquid phase at a concentration substantially exceeding its normal solubility.

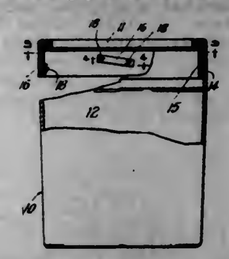
1,924,862
ELECTRICAL APPARATUS
Mahlon W. Kenney, Elmhurst, Ill., assignor to Grigsby-Grunow Company, Chicago, Ill., a corporation of Illinois
Application May 5, 1930. Serial No. 449,898
1 Claim. (Cl. 175—183)



A gang condenser testing cradle comprising a frame-work including a pair of spaced metallic bars, upon which the ends of said condenser rest to support the entire condenser, an insulating strip mounted on said framework lying parallel to the length of the gang condenser in normal testing posiiton, a plurality of spring-pressed contact members, each one adapted to make contact with a stator of the condenser gang and a switching mechanism supported on said cradle for connecting any one of said stators to a testing circuit, said switching mechanism comprising a shaft supported on said framework transverse to the length of the gang condenser and a movable contact at one end thereof adapted to co-operate with suitable fixed contacts, whereby said switch may be operated from the front of the cradle.

1,924,863
COVER FOR CONTAINERS
Lydia B. Koch, New York, N. Y., and Andrew Bodor, Newark, N. J.; said Bodor assignor to said Koch
Application March 19, 1932. Serial No. 599,865
4 Claims. (Cl. 229—47)

1. A container as characterized comprising in combination with a container body portion, a cover fitting said body portion, said cover being comprised of two plies, locking means clamped between the two plies and projecting through the wall of the inner ply adjacent the body portion,



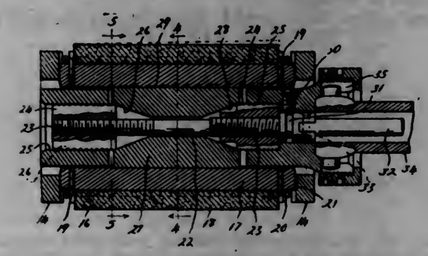
and burrs on said locking means for engaging the body portion.

1,924,864
PICTURE HANGER
Frederick L. Koehler, Tenafly, N. J.
Application April 3, 1931. Serial No. 527,442
2 Claims. (Cl. 40—145.1)



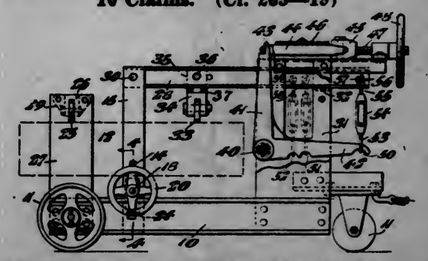
1. A picture hanger having a moulding-engaging hook at its upper end and a cord-engaging hook at its lower end, the portion of the hanger between said ends being provided with a ledge, and an ornament adapted to overlie said hanger, having a fastening member enclosing the intermediate portion of the hanger, said fastening member being slidable along the upper portion of the hanger past the end of the hook and adapted to seat against said ledge to hold the ornament in position.

1,924,865
LAPPING TOOL
Joseph B. Kowalski, Detroit, Mich., assignor, by mesne assignments, to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan
Application May 9, 1927. Serial No. 189,933
16 Claims. (Cl. 51—134.3)



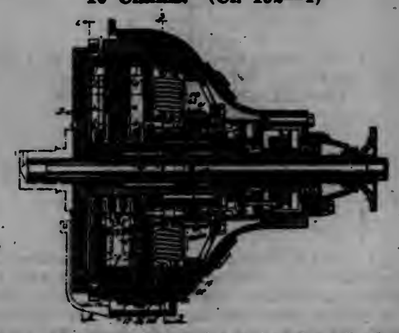
1. In a lapping tool, a body provided with radial recesses in the outer surface thereof, lapping members arranged in said recesses and means for adjustably and rockably supporting said lapping members including radially adjustable plate members projecting into said recesses and engaging said lapping members.

1,924,866
TESTING MACHINE FOR BEAMS
Robert B. Lewis, Philadelphia, Pa., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 8, 1929. Serial No. 405,605
10 Claims. (Cl. 265—19)



10. In a testing machine, a frame, a test beam support carried by said frame, a lever beam pivotally supported at one end from said frame, a bell crank pivotally supported adjacent said lever beam, a dynamometer connected to one arm of said bell crank, and a turnbuckle for connecting the other arm of said bell crank to said lever beam at any one of a number of predetermined positions.

1,924,867
CONTROL FOR SELF-PROPELLED VEHICLES
Fredrik Ljungstrom, Stockholm, Sweden, assignor, by mesne assignments, to Fed, Incorporated, a corporation of Delaware
Application July 2, 1929, Serial No. 375,506, and in Sweden July 3, 1928
10 Claims. (Cl. 192—4)

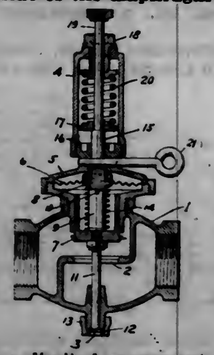


1. Apparatus of the character described comprising a variable-speed power transmission including a driven member and clutch mechanism operating to prevent rotation of the driven member in a direction opposite the direction of drive for which the transmission is set, braking mechanism tending to arrest movement of the driven member and auxiliary mechanism operable to release said braking mechanism and to concurrently render said clutch mechanism inoperative to prevent said movement of the driven member in said opposite direction.

1,924,868
GAS SHUT-OFF FIRE VALVE DEVICE
Luther D. Lovekin, Villanova, Pa., assignor to Kitson Company, Philadelphia, Pa., a corporation of West Virginia
Application July 29, 1931. Serial No. 553,737
6 Claims. (Cl. 137—162)

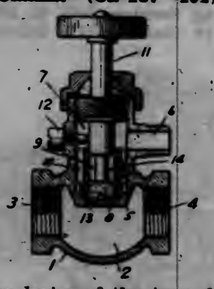
2. A gas shut-off fire valve device comprising a diaphragm, a self closing valve arranged on

one side of and disconnected from the diaphragm, a body of puncturable metal arranged to hold the valve in open position, and means arranged on the other side of the diaphragm and adapted



for initiating a limited movement of the diaphragm and valve sufficient to puncture said body and thereby permit the valve to complete its closing stroke independent of the diaphragm.

1,924,869
PROTECTION VALVE DEVICE FOR WATER METERS AND THE LIKE
Luther D. Lovekin, Villanova, and Jean L. Le Gorre, Philadelphia, Pa., assignors to Kitson Company, Philadelphia, Pa., a corporation of West Virginia
Application March 11, 1932. Serial No. 598,116
2 Claims. (Cl. 137—161)

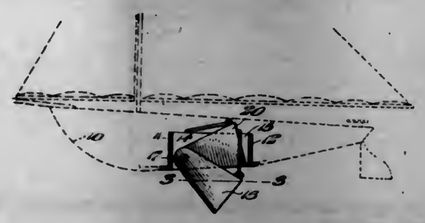


1. In a valve device of the type described the combination of a casing having a water way and a spillway including a generally cylindrical chamber, a sleeve valve having a cavity and movable in said chamber and biased to open position by water pressure in the water way, a screw valve spindle in respect to which the sleeve of the valve is slidable and which is provided with a projection, a limit stop for the valve, and a body fusible upon rise in temperature and arranged between the valve and projection and confined by the sleeve of the valve and the valve spindle.

1,924,870
TREATMENT OF MOTOR FUEL
Charles D. Lowry, Jr., and Charles G. Dryer, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota
No Drawing. Application October 5, 1931
Serial No. 567,136
3 Claims. (Cl. 44—9)

3. Motor fuel comprising cracked gasoline containing a small amount of aldol alpha naphthylamine as a stabilizer for the highly unsaturated olefinic content of the gasoline.

1,924,871
BOAT KEEL
Charles Townsend Ludington, Ardmore, Pa.
Application June 26, 1931. Serial No. 546,947
10 Claims. (Cl. 114—130)



1. In boats, a keel, said keel including a pair of complementary vertically relatively adjustable elements arranged to be disposed in lowered position together, each element of airfoil section asymmetrical relative to its chord horizontally of the element, the elements arranged to form a streamlined profile symmetrical with its chord in a predetermined relative position, the chord of said keel having the same predetermined angular relation to the longitudinal axis of the boat whether the profile be asymmetrical airfoil or symmetrical streamline.

1,924,872
METHOD OF MANUFACTURING ZINC OXIDE
Archibald O. Mason, Highland Park, Ill.
No Drawing. Application March 28, 1932
Serial No. 601,723
12 Claims. (Cl. 23—148)

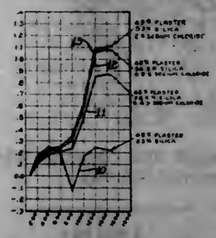
9. A method of refining high-zinc alloys of low commercial value present in die castings, dross and the like, comprising subjecting such metals in a furnace, without agitation, to heat solely from the top sufficient to melt the mass and volatilize the zinc, conducting the zinc vapor out of said furnace and into a combustion chamber and there completing its oxidation to form zinc oxide of high chemical purity, and collecting the zinc oxide.

1,924,873
MACHINE FOR MAKING PACKING MATERIAL
Albert E. F. Moone, Chicago, Ill., assignor to Orenda Corporation, Chicago, Ill., a corporation of Illinois
Application November 1, 1930. Serial No. 492,740
10 Claims. (Cl. 154—31)



1. In a machine for making packing material, in combination with means for forming embossed areas in a moving sheet of paper, of a pair of plain surfaced drums receiving the embossed sheet and applying to one side thereof a coating of an adhesive, and means uniting the embossed sheet to a backing sheet, comprising a pair of drums including an embossing drum and a plain surfaced drum cooperating therewith.

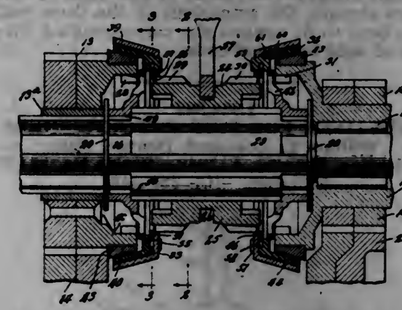
1,924,874
METHOD OF MAKING DENTAL CASTINGS AND COMPOSITION EMPLOYED IN SAID METHOD
Thomas E. Moore, Toledo, Ohio, assignor to Ransom & Randolph Company, Toledo, Ohio, a corporation of Ohio
Application November 7, 1932. Serial No. 641,664
9 Claims. (Cl. 22—188)



1. The process of forming dental castings consisting in forming a model of the shape of the desired casting, applying to said model a plastic setting composition consisting essentially of plaster of Paris and silica and having its heat expansion increased by the addition of a material of the group consisting of the chlorides of sodium, potassium and lithium, removing the composition from the model, allowing the composition to harden, heating the hardened composition thus formed into a mold, pouring an alloy into the heated mold, and allowing the casting to cool.

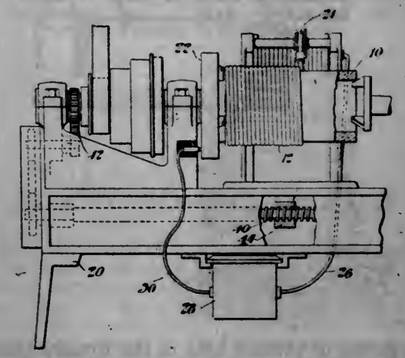
5. A composition for forming dental molds consisting essentially of plaster of Paris and silica and having its heat expansion increased by the addition of a material of the group consisting of the chlorides of sodium, potassium and lithium.

1,924,875
SHROUDED SYNCHRONIZER
Howard J. Murray, New York, N. Y., assignor to R. M. Company, Inc., East Pittsburgh, Pa., a corporation of Delaware
Application October 12, 1931. Serial No. 568,261
25 Claims. (Cl. 192—53)



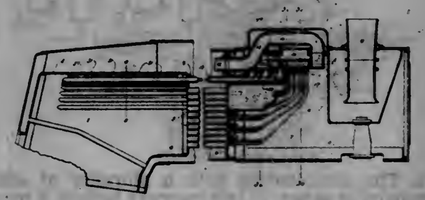
15. In a device of the class described, the combination of a rotative positive drive clutch, mechanism for causing the elements of the clutch to approach the same speed, said mechanism including a friction clutch having a shiftable element which may be contained in a pool of oil or other medium having a tendency to impose a drag on the rotative movement of said shiftable element, and a shroud turning with one of the rotary elements of the positive drive clutch and disposed substantially to enclose the shiftable element of the friction clutch.

1,924,876
COATING REFRACTORIES WITH METAL
John D. Morgan, Maplewood, N. J., assignor to Doherty Research Company, New York, N. Y., a corperation of Delaware
Application December 30, 1929
Serial No. 417,391
7 Claims. (Cl. 219—10)



7. The method of applying a metal to the surface of a non-metallic refractory object which consists in dusting the surface of the object with a powdered metal to render the same electrically conductive, forming an electric arc between said surface and a metallic electrode to fuse the end of said electrode and deposit metal therefrom upon said surface and moving said electrode relative to said surface to progressively form a metal covering thereon.

1,924,877
BOILER
Rudolf M. Ostermann, Kenilworth, Ill., assignor to The Superheater Company, New York, N. Y.
Application December 17, 1931
Serial No. 581,577
10 Claims. (Cl. 122—481)

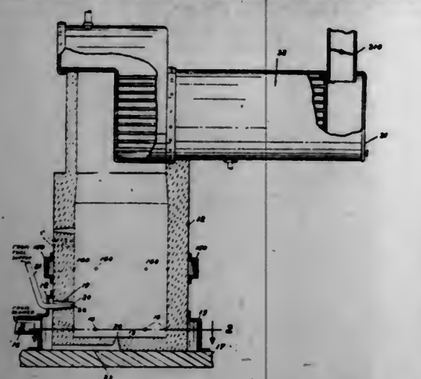


1. In apparatus of the class described, the combination of a fire-box having a water-cooled sheet, a superheater comprising a tubular element in proximity to the sheet, and means to protect said tubular element against over-heating comprising a web secured to the sheet and to the tubular element to support the latter and to conduct heat from it to the sheet.

1,924,878
METHOD AND APPARATUS FOR BURNING PULVERIZED FUEL
Richard W. Parry, Cincinnati, Ohio
Application September 3, 1929. Serial No. 389,946
5 Claims. (Cl. 110—28)

1. In a pulverized fuel furnace the combination of a chamber having a bottom and side wall structure, means to direct jets of air under pressure at various angles through the wall struc-

ture whereby the inner surface of the wall structure is swept by said air jets and impingement of the air from said jets upon the wall structure and upon themselves will create violent agitation of fuel free air for protecting the wall surfaces from



the action of radiant heat in the furnace chamber and for heating the turbulent air prior to mixture with pulverized fuel and means to gently feed pulverized fuel into the turbulent preheated air without appreciable contact with the wall surfaces.

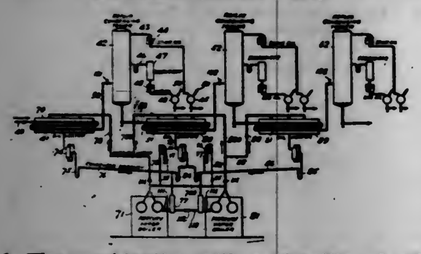
1,924,879

OIL DISTILLATION APPARATUS

Arthur E. Pew, Jr., Bryn Mawr, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Original application April 4, 1929, Serial No. 352,392. Divided and this application August 6, 1931. Serial No. 555,391

6 Claims. (Cl. 196—119)



1. The combination with a plurality of stills arranged in series, of two mercury boilers, a mercury vapor flow pipe from one boiler communicating with one or more stills and a mercury vapor flow pipe from the other boiler communicating with one or more other stills, and a cross-connecting mercury vapor flow pipe connecting the mercury vapor flow pipes from the two boilers.

1,924,880

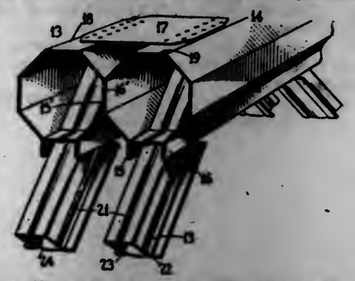
OPEN TRUSS GIRDER

Earl J. W. Ragsdale, Norristown, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 7, 1930. Serial No. 426,471

6 Claims. (Cl. 189—37)

1. A joint for an open trussed girder comprising a hollow chord, and a web member having adjacent portions extending diagonally in opposite directions and joined by a flattened portion, the flattened portion being secured to an inside wall of the chord and the diagonal portions ex-



tending through the opposite side wall of the chord and secured thereto.

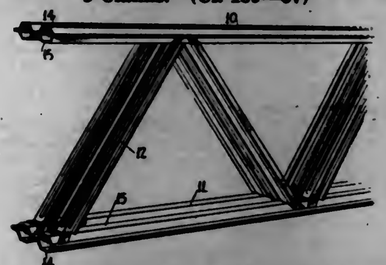
1,924,881

OPEN TRUSS GIRDER

Earl J. W. Ragsdale, Norristown, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 13, 1930. Serial No. 428,027

5 Claims. (Cl. 189—37)



1. An open trussed girder comprising hollow chords, the hollow portions of which are of general channel form having two side walls and a bottom wall, and three-sided hollow web members secured to the inner sides of said hollow portion through integral extensions of the walls of their hollow section, the extensions of the three walls being bent to fit against the corresponding three walls of said hollow chords.

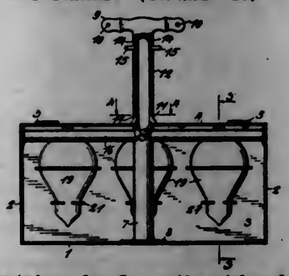
1,924,882

CONTAINER FOR FIRE EXTINGUISHERS

William L. Roessner, Denver, Colo.

Application January 5, 1932. Serial No. 584,766

5 Claims. (Cl. 224—48)



1. A container for fire extinguisher hand grenades comprising, a box having a bottom, sides and ends, a cover hinged to the box and adapted to close the top thereof, resilient means associated with the box and cover for moving the latter to open position, a handle secured to the box, a latch mechanism carried by the handle for holding the cover in closed position, the handle having a hand grip, and means also carried by the handle and located in close proximity of the hand grip for operating the latch.

CARNEGIE LIBRARY OF ATLANTA

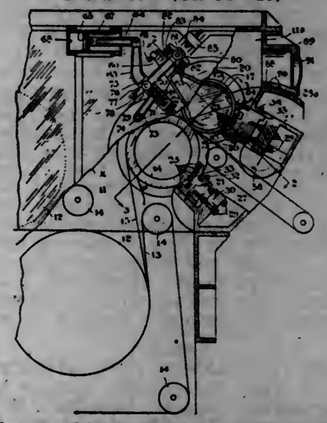
1,924,883

VACUUM SEAL FOR DRIERS

Andrew N. Russell, Montreal, Quebec, Canada, assignor to Dominion Engineering Works Limited, Lachine, Canada

Application April 24, 1931. Serial No. 532,493

14 Claims. (Cl. 34—48)



1. The combination of a vacuum chamber equipped with rolls between which sheet material is passed during its travel into or out of said chamber, a sealing member arranged adjacent to each roll and having its roll opposing surface grooved to retard the leakage of air across said surface and into the vacuum chamber, and movable supporting means mounting one of said rolls and its associated sealing member for unitary movement relative to the companion roll.

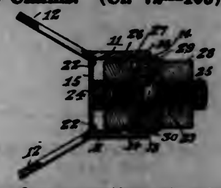
1,924,884

MOUNTING DEVICE FOR CONCRETE WALL STRUCTURES AND THE LIKE

Adolf H. Schaffert, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a corporation of Michigan

Application April 25, 1931. Serial No. 532,924

5 Claims. (Cl. 72—105)



5. A means for mounting structural units in concrete and the like walls including a box having a substantially U-shaped body providing a front and side walls, the front wall having an opening and the side walls having flared loops attached to their corners and forming anchors, a second substantially U-shaped back member that interfits with the body member between the side walls in advance of the anchor loops and forms a top, a bottom and a rear wall, an article holding device that enters the opening in the front wall, and means in the box for fixedly securing the holding device in place.

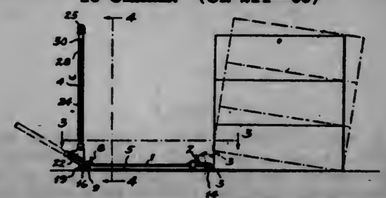
1,924,885

SELF LOADING AND UNLOADING TRUCK

Irvin F. Schreck, East Cleveland, Ohio

Application July 11, 1931. Serial No. 550,126

18 Claims. (Cl. 214—65)



1. A truck comprising a main carriage having a relatively low load supporting frame, a load tilting carriage mounted to travel forwardly and rearwardly of the frame and having a load engaging member adapted to overhang the forward end of said frame in the forward position of the load tilting carriage, said member being movable up and down independently of the frame in the forward position of the carriage to raise or lower a load and means for raising and lowering said load engaging member, said main carriage being movable relative to the auxiliary carriage while the auxiliary carriage remains stationary with the load.

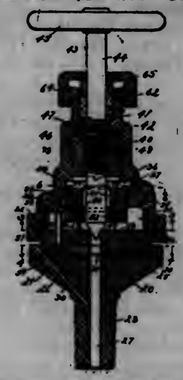
1,924,886

GAUGE COCK OR VALVE

John B. Semon, Philadelphia, Pa.

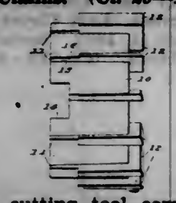
Application July 6, 1931. Serial No. 548,902

7 Claims. (Cl. 277—31)



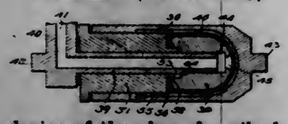
1. A gauge cock or valve consisting of a body having a passageway therethrough, a valve seat at the inner end of said passageway, a rotatable cut-off intersecting said passageway and having a hole therein for selective registration with the passageway, a hood removably connected to the body and provided with an outlet, an operating handle rotatably mounted in said hood, a valve stopper having threaded connection with the handle for longitudinal movement, a collar having a non-rotatable sliding connection with the stopper and a sliding and rotating connection with the hood, interengaging means on the operating handle and collar whereby rotary motion may be imparted from the operating handle to the collar, and means for transmitting rotary motion from said collar to the cut-off.

1,924,887
INSERTED CUTTING BLADE LOCK
Ole Severson, Shelton, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y., a corporation of New York
Application March 29, 1927. Serial No. 179,212
4 Claims. (Cl. 29—105)



1. A rotary cutting tool comprising a body member having a series of slotted openings in the periphery thereof, the opposite walls of said openings being inclined toward each other both longitudinally thereof and radially of said member, whereby compound wedge-shaped openings are provided with the larger dimensions extending toward the outer end and toward the axis of said member; and blades inserted in the openings having a shape and size to correspond with the openings whereby adjacent portions of said body member directly engage the blade to form a dovetail locking means against radial movement of said blades and also form a wedge for frictional engagement with said blades to prevent longitudinal movement thereof, said blades being thereby secured in place independently of auxiliary fastening devices.

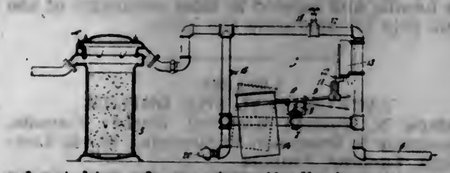
1,924,888
FLUID PRESSURE OPERATED DEVICE
John W. Tatter, Chicago, Ill., assignor to Lewis Differential Company, Chicago, Ill., a corporation of Illinois
Application December 28, 1929
Serial No. 417,115
4 Claims. (Cl. 60—54.6)



1. In a device of the class described, the combination of a pair of relatively movable members, a cup-shaped resilient packing element rigidly secured to one of said members, the other of said members having a recess formed in its inner surface, and an anti-friction lining positioned in said recess and rigidly associated with said other of said members in a manner to surround said packing element.

1,924,889
TIME CONTROLLED MECHANISM
Lewis G. Morris Timpson, Plainfield, N. J., assignor to Pyrene-Minimax Corporation, a corporation of Delaware
Application October 8, 1928. Serial No. 310,989
3 Claims. (Cl. 169—15)

1. In apparatus of the character described, in combination a foam generator adapted to contain a predetermined quantity of chemicals, a conduit for supplying a stream of water to said generator, a valve controlling the flow of water in said conduit, means for opening said valve and means for thereafter closing said valve comprising a tank and means for admitting a stream of water to said tank discharging a quantity proportionate to that flowing through said conduit to said generator while the valve is open and water is flowing in said conduit, said tank being so constructed and arranged as to be shifted upon opening and closing said valve closing of said

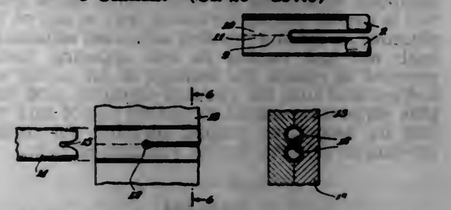


valve taking place automatically in response to the shifting of said tank when a predetermined weight of water has collected in said tank and a quantity proportionate to said quantity of chemicals has been supplied to said generator.

1,924,890
METHOD OF PREPARING GELATIN BLANKS
Leonard T. Troland, Cambridge, Mass., assignor, by mesne assignments, to Technicolor, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application June 12, 1929
Serial No. 370,470
15 Claims. (Cl. 91—70)

1. A process of treating gelatin compositions which comprises the steps of treating the same in moist, partially set condition, containing an acid-activated hardening agent, with a solution containing gelatin and an activating organic acid, and causing the hardening reaction to proceed.

1,924,891
METHOD OF MAKING PIPE STRUCTURES
Charles H. True, Chicago, Ill., assignor to The Superheater Company, New York, N. Y.
Application April 18, 1930. Serial No. 445,286
5 Claims. (Cl. 29—157.6)

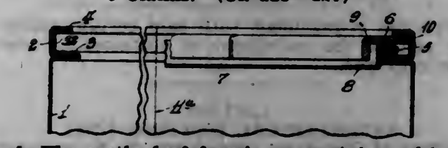


1. In the process of forming a bifurcated tubular structure comprising the steps of uniting two tubes by slitting the wall of each for a distance from the end, bending outward the portions adjacent to the slits, and welding the edges of said portions together, whereby said tubes are joined into a breeches-like unitary piece with the two pipes in spaced parallel relation; the improvement which consists in forcing said two pipes into contact by lateral pressure and thereafter restoring the pipes to their circular shape and removing any deformation caused by said lateral pressure.

1,924,892
CLEANING GELATINOUS SURFACES AND THE LIKE
Bertha Sugden Tuttle, Boston, Mass., assignor, by mesne assignments, to Technicolor, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Original application January 20, 1926, Serial No. 82,622. Divided and this application November 19, 1928. Serial No. 320,532
1 Claim. (Cl. 87—5)

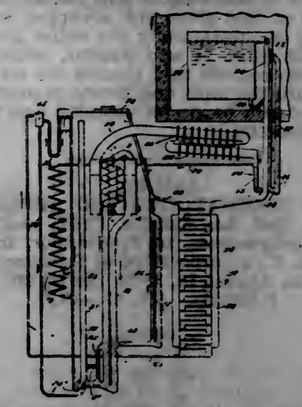
A composition for cleaning gelatinous surfaces comprising ethyl alcohol and diethyl amine.

1,924,893
METHOD OF MAKING CONTAINERS AND CHIMES THEREFOR
Louis B. Wackman, St. Louis, Mo.
Application November 26, 1932
Serial No. 644,653
9 Claims. (Cl. 113—120)



1. The method of forming a container chime consisting of outwardly folding a portion of the container wall, of forming an inward annular channel in the container wall and simultaneously engaging a part of the folded portion in the channel, and of pressing opposing sides of the formed channel for providing a cover seat.

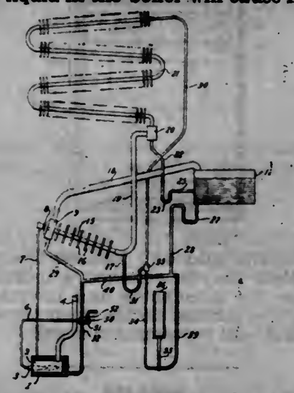
1,924,894
FLUID APPARATUS
Eastman A. Weaver, Winchester, Mass., assignor, by mesne assignments, to Stator Refrigeration, Inc., a corporation of Delaware
Application May 8, 1929, Serial No. 361,316
Renewed September 23, 1932
22 Claims. (Cl. 62—119)



1. Apparatus of the class described comprising a main fluid circuit having a high pressure portion and a low pressure portion, and means maintaining a difference of pressure therebetween, and means associated therewith to return fluid from the low to the high pressure portion of the system, said means comprising a fluid passage between said portions of the circuit and an auxiliary fluid circuit having a tube of capillary dimensions in common with said passage and means for supplying successive slugs of auxiliary liquid to the tube whereby fluid is entrained by the heavy liquid and pumped to the high pressure portion of the main circuit.

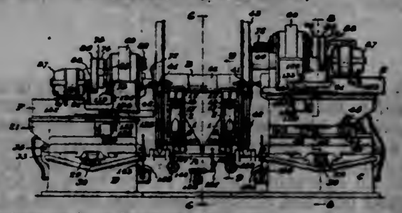
1,924,895
HEAT EXCHANGE SYSTEM CONTROL
Lyman F. Whitney, Boston, Mass., assignor to Comstock & Wescott, Inc., Boston, Mass., a corporation of Massachusetts
Application January 30, 1931. Serial No. 512,405
11 Claims. (Cl. 122—504)

1. Apparatus of the class described comprising a boiler, a burner associated therewith, a passage supplying fluid to the burner, a vapor outlet pipe connected to the boiler, a duct normally containing liquid connected to the boiler, a heat distortable thermostat in heat transfer relation to a portion of the duct remote from the boiler, said duct being arranged so that depletion of liquid in the boiler will cause hot vapor



to pass into the duct and effect movement of the thermostat, a shut-off valve in the fluid passage, a spring urging the valve toward its closed position, the thermostat normally locking the valve in open position and when actuated by heat releasing the valve so that it is closed by the spring, thus interrupting the flow of fluid to the burner.

1,924,896
GRINDING MACHINE
Henry H. York and Arthur A. Kottman, Davenport, Iowa, assignors, by mesne assignments, to The Micro Corporation, Bettendorf, Iowa, a corporation of Delaware
Application August 6, 1930. Serial No. 473,334
12 Claims. (Cl. 51—43)

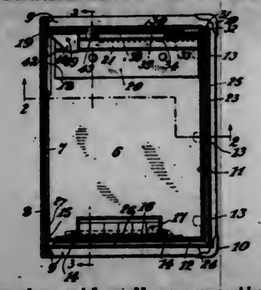


1. Apparatus for grinding the crank pins or crank pin openings of a locomotive drive wheel assembly, comprising a bed, a wheel assembly supporting means intermediate the ends of said bed, a carriage supporting base mounted on each end of said bed, a carriage mounted on each said base, a rotatably and orbitally movable grinding wheel mounted on each said carriage, and work centers carried by said bases, said bases being movable transversely of said bed to one predetermined position for centering the wheel assembly carried by said supporting means, and being movable to another predetermined position for placing the grinding wheels in operative position for simultaneously grinding the crank pins or openings therefor for stroke and quarter.

1,924,897
CONTAINER
David H. Zell, Brooklyn, N. Y.
Application April 11, 1931. Serial No. 529,479½
4 Claims. (Cl. 232—4)

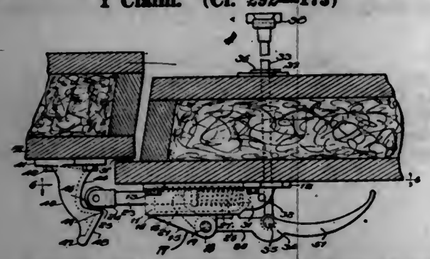
1. A container comprising spaced side walls, means rigidly connecting and spacing said side

walls apart, means representing edge walls of the container including a movable section constituting a door or closure for the container, means for detachably retaining said last named means in assembled relation with said side walls of the con-



tainer whereby said wall representing means of the container may be renewed, a locking device, and means for detachably and interchangeably mounting the locking device upon the door sections of said wall representing means.

1,924,898
COLD STORAGE DOORLOCK
Christopher J. Anderson, Chicago, Ill., assignor to Blazek Cold Storage Door Company, Chicago, Ill., a corporation of Illinois
Application October 9, 1929. Serial No. 398,298
1 Claim. (Cl. 292—173)



A lock of the kind described in which is combined a mounting wherein a slidably supported a locking bolt having its rear end terminating in a pair of spaced plungers symmetrically arranged with respect to the center line of the bolt, an operating handle in the form of a lever having one end engaged with the bolt at a point adjacent the center line thereof, and so arranged as to present a substantial portion of itself in lapping relation to the bolt, and a push rod connected to the lever and extending away therefrom in a plane transversely of the bolt and coincident with the center line thereof, the rotative position of the bolt relative to the push rod being such that the latter is disposed centrally between the spaced plungers when the bolt is retracted from locking position.

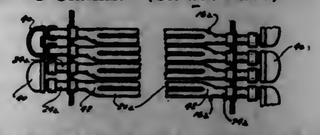
1,924,899
BRAKE MECHANISM FOR CONVEYERS
Martin J. Andersen, Ellwood City, Pa., assignor to Mathews Conveyer Company, Ellwood City, Pa., a corporation of Pennsylvania
Application October 8, 1930. Serial No. 487,228
7 Claims. (Cl. 193—35)

1. In a conveyer including a plurality of rollers, a member mounted beneath said rollers and adapted to frictionally engage certain of said rollers, means for guidingly supporting said member, a rock shaft, a cam mounted upon said shaft and having a connecting with said member, and means for operating said shaft whereby said member may be moved into and out of



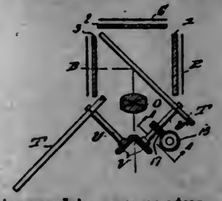
frictional engagement with said certain rollers to control the movement of commodities over the conveyer.

1,924,900
SYMMETRICAL HEATING UNIT
Wilbur H. Armacost, New York, N. Y., assignor to The Superheater Company, New York, N. Y.
Application July 16, 1932. Serial No. 622,933
3 Claims. (Cl. 257—230)



1. In a heat exchanger, a plurality of units each having two parallel pipe lengths united at both ends of the unit into common throats, the throat at one end of a given unit arranged to permit inspection of substantially the entire inner surface of one of said lengths and the throat at the other end of said given unit arranged to permit inspection of substantially the entire inner surface of the other of said lengths, return bends arranged to connect said throats for series flow of fluid thru the units and means permitting the removal of said bends for cleaning and inspecting said lengths.

1,924,901
COLOR CINEMATOGRAPHIC APPARATUS
Joseph A. Ball, Los Angeles, Calif., assignor, by mesne assignments, to Technicolor, Inc., New York, N. Y., a corporation of Delaware
Application August 15, 1929. Serial No. 386,092
8 Claims. (Cl. 88—19.3)

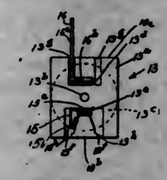


1. Cinematographic apparatus comprising a plurality of shutters, means for driving the shutters in synchronism, and over-running clutch means releasing the shutters for continued rotation when the driving means stops abruptly while maintaining the shutters in synchronism.

1,924,902
ELECTRICAL DEVICE
Louis Barnett, Brooklyn, N. Y.
Application January 11, 1929. Serial No. 331,864
4 Claims. (Cl. 200—115.5)

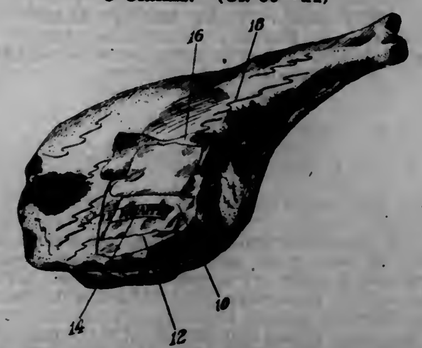
1. An electric unit of the character described comprising a plug cap formed of an insulating body having a central passage extending therethrough, a transverse annular shoulder adjacent one end thereof, spaced parallelly aligned terminal contact blades secured to said body and extending freely and outwardly from one end of

the passage, said contact blades having lateral extensions lodged on said shoulder, means for anchoring said extensions on said shoulder, a binding post carried by each of said extensions, a current limiting member disposed in said passage secured to said binding posts to electrically



interconnect said blades, a closure for said passage at one end thereof, and a readily removable closure for said passage at the other end, whereby the current limiting member may be readily replaced, thereby permitting the facile replacement of said current limiting member.

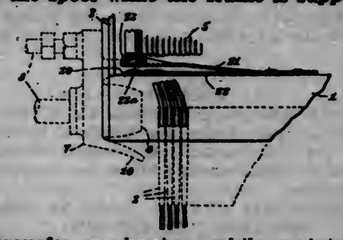
1,924,903
CONSUMER PACKAGE OF MEAT PRODUCTS
Clarence Birdseye, Gloucester, Mass., assignor, by mesne assignments, to Frosted Foods Company, Inc., Dover, Del., a corporation of Delaware
Application May 17, 1929. Serial No. 363,846
5 Claims. (Cl. 99—14)



5. The method of making a frozen marketable package which consists in wrapping a unit of fresh moist meat product in sheet cellulose, covering the wrapped unit with a self-conforming fabric and thereby bringing the cellulose wrapper into intimate contact with the moist surface of the meat and causing it to adhere thereto without the interposition of appreciable air spaces, freezing the package so that the cellulose wrapping becomes frozen to the surface of the product, and providing an ice glaze anchored upon the fabric covering.

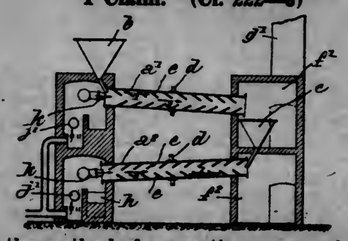
1,924,904
AXMINSTER LOOM
Walter Bixby, Boston, Mass.
Application August 6, 1931. Serial No. 555,472
4 Claims. (Cl. 139—9)

1. The combination with carrier chains, a tuft frame carrying a revoluble yarn spool and releasably suspended from the carrier chains, transfer mechanism for detaching the tuft frame and moving it to yarn-delivering position, a single brake means for maintaining a normal rotation-preventing pressure upon the spool while the frame is suspended from the chains, and means for weakening the rotation-preventing friction upon the spool while the frame is supported by



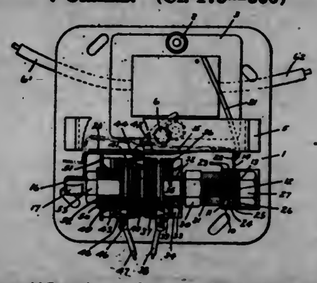
the transfer mechanism, while maintaining a sub-normal pressure on said friction means.

1,924,905
METHOD FOR HEATING SUBSTANCES SUCH AS GYPSUM IN AIR CURRENTS
André Paul Edouard Bourdet, Triel-sur-Seine, France
Application July 23, 1930, Serial No. 470,020, and in Belgium December 19, 1929
1 Claim. (Cl. 222—6)



In the method of converting gypsum into plaster the step of displacing said gypsum and a hot gas in the same direction, said gas having a relatively high temperature, and then displacing the gypsum thus heated and a hot gas in opposite directions, said last named hot gas having a lower temperature than the first.

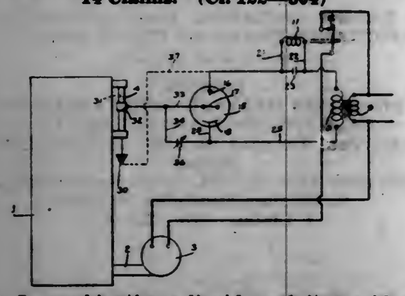
1,924,906
PROTECTING MEANS FOR RECTIFIER-TRANSFORMERS
George D. Bower, Columbia Heights, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application March 23, 1931. Serial No. 524,625
7 Claims. (Cl. 175—366)



1. A rectifier-transformer including a support for the rectifying elements and forming part of the rectifier circuit, a conducting element also forming part of the circuit, and a fusible element which circumscribes the support and conducting element to secure them together in conducting relation, said fusible element being meltable at a temperature lower than that at which injury will

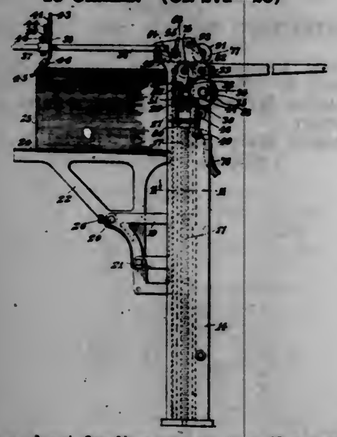
occur to the rectifying elements by over-heating, and means adapted to automatically move said conducting element away from the support to break the circuit after fusion of the fusible element.

1,924,907
ELECTRICAL CONTROL SYSTEM
George D. Bower, Columbia Heights, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 18, 1931. Serial No. 538,371
14 Claims. (Cl. 122—504)



1. In combination a liquid conduit, a grid glow tube, and electrical connections by means of which the tube is energized when the liquid is at or near a selected level and by means of which said tube is de-energized when the liquid is at or near another selected level, and including a control connection for dissipating negative charges on the grid in which connection the liquid conduit functions as a dielectric.

1,924,908
SHEET FEEDING MECHANISM
Albert Breadmeyer, Harrisburg, Pa., assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa., a corporation of Pennsylvania
Application August 6, 1930. Serial No. 473,445
18 Claims. (Cl. 271—28)



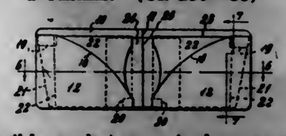
1. In a sheet feeding apparatus, the combination with a vertically movable pile support, of means for feeding the sheets in an edgewise direction and rearwardly from the top of a pile on the support, means for elevating the support toward the feeding means, means for causing the upper sheets of the pile to be moved rearwardly to project their rear ends beyond the pile when the support is elevated, means for positioning the pile including rearwardly inclined stops at the top for limiting the rearward movement of the top sheets, and means for directing a blast of air against the rearwardly projecting margins of the said sheets.

1,924,909
FOLDER OR BOOKLET TO BE ATTACHED TO A CAN OR THE LIKE
Robert Rea Brown, Upper Montclair, N. J., assignor to Outserts, Inc., New York, N. Y., a corporation of New York
Application February 5, 1930. Serial No. 425,971
10 Claims. (Cl. 40—7)



2. In a device of the character described, a plurality of connected sheets adapted to lie side by side, and tabs connected to one of the end sheets along weakened lines on opposite edges thereof and lying against the other end sheet when the device is in use.

1,924,910
FLEXIBLE POCKET RECEPTACLE
Warner R. Buxton, Longmeadow, Mass.
Application December 13, 1929, Serial No. 413,849
Renewed July 25, 1932
4 Claims. (Cl. 150—38)



1. A flexible pocket receptacle, comprising, an outer or back wall, inner wall forming means composed in part of a member doubled along substantially its median line and having its folded edge disposed parallel and adjacent one side edge of said outer wall, a flap connected to the opposite edge of said outer wall and extending over the front face of the front section of said member to said folded edge and having an extension passing around said folded edge and secured to the back face of the back section of said member adjacent the upper and outermost corner thereof, means for connecting one end edge of the outer wall to the adjacent end edge of said flap, and an extension from the opposite end edge of said flap folded around the adjacent end edge of the front section of said member adjacent the lower and innermost corner thereof and secured to the rear face thereof.

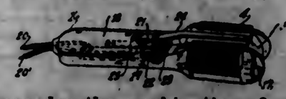
1,924,911
PROCESS FOR NEUTRALIZING AND SWEETENING GASOLINE
Hugh Harley Cannon, Los Angeles, Calif., assignor to Cannon-Prutzman Treating Processes, Ltd., Los Angeles, Calif., a corporation of California
No Drawing. Application October 2, 1929
Serial No. 396,903
6 Claims. (Cl. 196—33)

3. The method of neutralizing and sweetening acidified oils containing mercaptans which comprises: adding to said oil finely comminuted sodium hydroxid in quantity exceeding that which corresponds to the acidity of the soil and also adding to said oil sulfur in quantity sufficient for sweetening, and contacting said liquid mixture with a substantially dry powdered mass comprising lead monoxid and sodium hydroxid, the addition of water being avoided.

1,924,912
EXPLOSIVE
Hubert H. Champney, Succasunna, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 5, 1929
Serial No. 397,752
7 Claims. (Cl. 52—11)

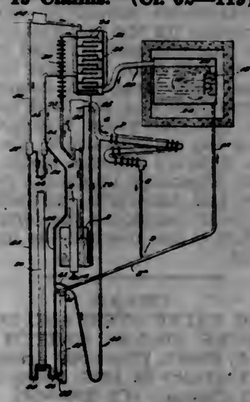
1. An explosive composition having a density such as to enable the production of in excess of four hundred and twenty-five 1¼"×8" cartridges per 100 pounds including as an ingredient truly crystalline ammonium nitrate in a free state and having a gravimetric density, determined by dividing the weight in grams of a sample of ammonium nitrate having a volume normally of one cubic inch by the volume of said sample in a closed cylinder one square inch in cross-section under a dead weight of 10 pounds within about the range 0.50–0.80 gm. per cc.

1,924,913
GROWLER TYPE TESTING DEVICE
Penrose E. Chapman, St. Louis, Mo., and Charles L. Chittenden, New York, N. Y.; said Chittenden assignor to said Chapman
Application November 9, 1931. Serial No. 573,998
10 Claims. (Cl. 175—183)



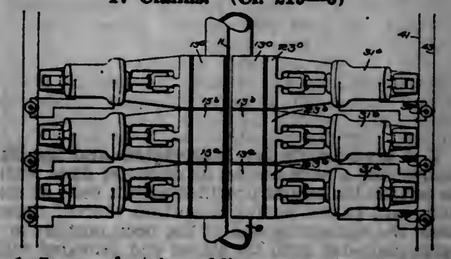
1. In a growler, the combination of an exciting coil around a laminated open magnetic core, the pole faces of which conform to a curve having varying radii.

1,924,914
ABSORPTION SYSTEM
Daniel F. Comstock, Boston, Mass., assignor, by mesne assignments, to Stator Refrigeration, Inc., a corporation of Delaware
Application May 8, 1929, Serial No. 361,273
Renewed September 23, 1932
19 Claims. (Cl. 62—119)



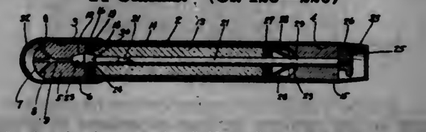
1. Absorption refrigerating apparatus utilizing a refrigerant having a vapor pressure less than atmospheric pressure at 0° C., said apparatus comprising a substantially gas-tight fluid circuit, and means associated therewith automatically to exhaust non-condensable gases from the system to permit the maintenance of low pressures therein, said means including a heavy auxiliary fluid, means to lift said fluid to a point of gas entrainment, a tube of capillary dimensions arranged to receive alternate slugs of heavy liquid and bodies of gas from this point and to vent the same to a region of separation from which the gas is exhausted and the heavy liquid is recirculated.

1,924,915
APPARATUS FOR ELECTRIC WELDING
George A. Cutter, Dedham, Mass., assignor, by mesne assignments, to Thomson-Gibb Electric Welding Company, a corporation of Massachusetts
Application January 23, 1929. Serial No. 334,540
17 Claims. (Cl. 219—6)



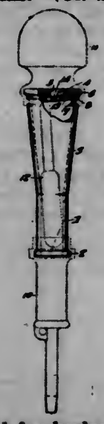
1. In an electric welding apparatus for welding adjacent, opposed edges of the work to form a tubular body, the combination with means for holding the work in a fixed position, of a plurality of separate and independently movable electrodes arranged lengthwise the joint to be welded, each having a conductive bearing seat against the work adjacent the joint, automatic means for moving said electrodes transversely the work to apply a welding pressure and close the joint, a source of welding current, and means automatically to control the current through each electrode in timed relation to the movement thereof.

1,924,916
APPLICATOR
Alfred Earl Drake, Los Angeles, Calif., assignor of one-half to Richard Marion Destel, Los Angeles, Calif.
Application March 17, 1931. Serial No. 523,218
14 Claims. (Cl. 128—226)



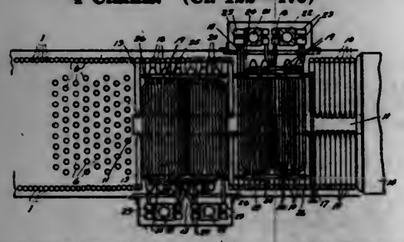
1. An instrument of the class described, comprising a casing provided at one end with a suitable discharge passage, a cartridge adapted to be fitted into said casing and having a discharge opening adapted to register with the discharge passage of the casing, a member for normally sealing the discharge opening of said cartridge whereby the latter may contain a suitable gelatinous medicament, a piston normally positioned within one end of the cartridge, and means for automatically and inseparably connecting said piston to said member, when the latter is moved in one direction, whereby the medicament in the cartridge may be expelled therefrom through the passage provided at the end of said casing.

1,924,917
GLASS BARREL FOR HYDROMETERS
Leo Edelmann, Chicago, Ill., assignor to E. Edelmann & Co., Chicago, Ill., a corporation of Illinois
Application March 10, 1930. Serial No. 434,731
2 Claims. (Cl. 265—45)



1. A glass barrel for hydrometers and the like comprising a neck having its diameter fixed within certain limits and provided with a bead at one end, said barrel having a portion thereof flared from the remaining end of the neck portion to a large diameter with the flared end provided with a top having an opening therethrough, said flared portion having an inwardly disposed bead adjacent to and spaced from the top and an outwardly extending bead at its end around the top.

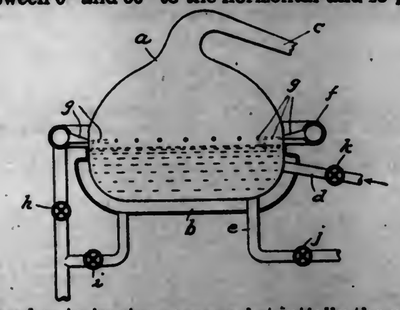
1,924,918
SUPERHEATER FOR HIGH PRESSURE BOILERS
Theodor Fischer, Cassel, Germany, assignor to The Superheater Company, New York, N. Y.
Application July 1, 1930, Serial No. 465,117, and in Germany July 15, 1929
4 Claims. (Cl. 122—476)



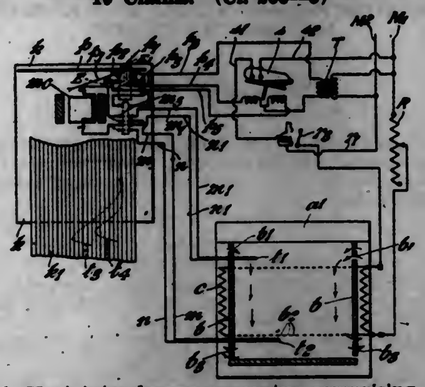
1. A tube bundle for superheaters having a majority of its heating surface composed of groups of pipe lengths arranged in parallel substantially horizontal planes, means for spacing said groups, and additional heating surface arranged to form at least two loops in substantially vertical planes, each of said loops embracing said groups.

1,924,919
METHOD OF DISTILLING
Alan E. Flowers, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application February 5, 1932. Serial No. 591,055
1 Claim. (Cl. 202—63)

The method of minimizing frothing during the distillation of liquids having a tendency to froth which includes introducing into a still containing the body of liquid undergoing distillation, from points above the surface of the body of liquid, steam in spreading jets directed at such angle between 0° and 60° to the horizontal and so positioned as to impinge upon substantially the whole surface of said body of liquid, whereby incipient froth is broken up and the vapors and steam escaping from the liquid body are substantially free of unvaporized liquid.



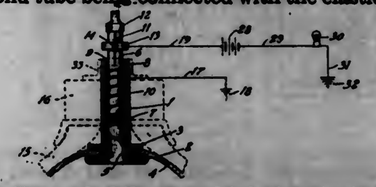
1,924,920
FURNACE
Charles Edwin Foster, Letchworth, Hertfordshire, and John Edward Oram, Holloway, London, England
Application July 7, 1932, Serial No. 621,164, and in Great Britain September 8, 1931
10 Claims. (Cl. 266—5)



1. Heat interchange apparatus comprising an insulated chamber for the material under treatment, a heat interchanger, a closed fluid circuit passing successively from the heat interchanger to the material under treatment, means for measuring the temperature of the fluid before it has reached the material under treatment, means for measuring the temperature of the fluid after it has passed from the material under treatment, apparatus for separately indicating each of said temperatures and apparatus controlled thereby for automatically regulating the temperature of the fluid before it has reached the material under treatment.

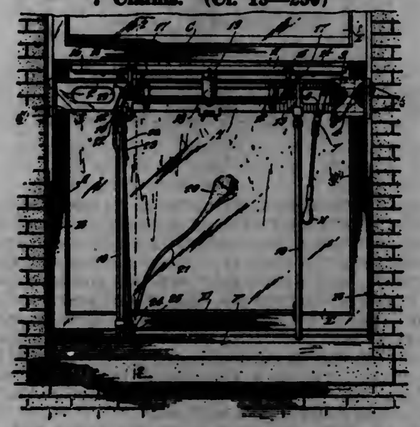
1,924,921
INDICATING VALVE STEM AND LOW PRESSURE SIGNAL SWITCH
Clarence A. Frank, Edgewood Arsenal, Md.
Application February 20, 1933. Serial No. 657,498
5 Claims. (Cl. 200—58)

5. A pressure indicating valve stem and low pressure alarm switch comprising, in combination, a tube having one end provided with a flange, the outer surface of the tube having a threaded section, a nut on the threaded section, an elastic tube having one end stretched over the flange and folded over the other edge of the same, the other end of the elastic tube terminating within the first tube, a second tube slidably mounted in the first tube, the inner end of the second tube being connected with the elastic tube,



the other end of the second tube terminating outside of the first tube, a guide means of insulating material in the space between the two tubes, a spring surrounding the inner tube, in the space between the end of the elastic tube and the guide means, said spring being tensioned to move the second tube inwardly into the first tube, and a contact member attached to the second tube and positioned to engage the end of the first tube when the pressure falls below a predetermined value.

1,924,922
WINDOW CLEANING APPARATUS
Carl Gehrig, West New York, N. J., assignor of one-half to Karl P. May, West New York, N. J.
Application October 28, 1931. Serial No. 571,483
7 Claims. (Cl. 15—250)



1. Cleaning apparatus for a window having a casing and a sliding sash having upper and lower rails, said apparatus comprising a frame, means thereon for mounting the frame in a window casing at one side of a sash, a wiper mounted on said frame so as to be located adjacent the lower limit of movement of the upper rail of the sash when said frame is mounted in a window frame and to move into and out of contact with the glass of said sash so that as the sash is moved upwardly said wiper will wipe the glass, and means operatively connected to said wiper and having a part located to be adjacent the lower limit of movement of the lower rail of the sash when said frame is mounted in a window frame and to be actuated by said lower rail as said rail reaches the lower limit of its movement to move said wiper into contact with said glass adjacent the upper rail of said sash.

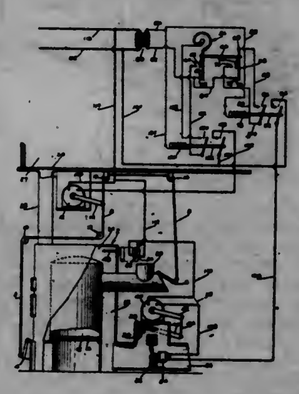
1,924,923
PROCESS FOR MAKING RUBBER THREAD
Willis A. Gibbons, Montclair, N. J., assignor to Revere Rubber Company, Providence, R. I., a corporation of Rhode Island
No Drawing. Application February 25, 1932
Serial No. 595,235
12 Claims. (Cl. 18—54)

12. A process for making rubber thread comprising continuously passing a stream of coagulant through a nozzle into a body of latex, drawing the formed coagulum away from the nozzle, withdrawing the resulting filamentary coagulum from the body of latex, setting or coagulating the surface of the thread, drying, and vulcanizing.

1,924,924
PROCESS FOR MAKING RUBBER THREAD
Willis A. Gibbons, Montclair, N. J., assignor to Revere Rubber Company, Providence, R. I., a corporation of Rhode Island
No Drawing. Application May 28, 1932
Serial No. 614,297
17 Claims. (Cl. 18—54)

1. A process for making rubber thread comprising the step of forming a continuous length of coagulum from latices of different pH values at least one of which is a coagulant for another of said latices, and drying said coagulum.

1,924,925
FURNACE CONTROL MEANS
Arthur C. Grant, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 8, 1932. Serial No. 591,648
11 Claims. (Cl. 236—11)



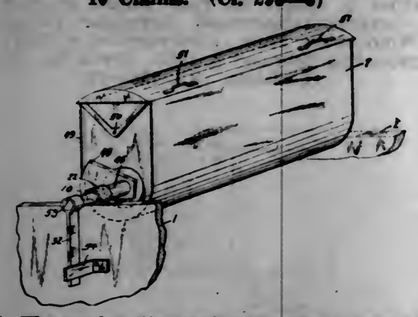
1. The combination with a hot air furnace having a draft damper, a fan for passing circulating air in contact with the furnace heating surfaces, an electric motor for driving said fan, and an energizing circuit for said motor, of a control member movable in response to temperature variations in the room or space being heated by said furnace, means associated with said control member for closing the energizing circuit of said motor upon a predetermined fall in room temperature, means associated with the control member for opening said draft damper upon a further fall in room temperature, and means associated with the control member for closing said draft damper and opening the motor energizing circuit after a rise in room temperature.

1,924,926
RECEPTACLE PROTECTOR
Lois B. Gray, Kansas City, Mo.
Application August 29, 1932. Serial No. 630,766
4 Claims. (Cl. 65—53)



4. A receptacle protector of the character described comprising a cup-shaped body having a rigid, substantially disk-shaped bottom, and a flexible side extending from the edge of said bottom; and a resilient member on the side of the body, said resilient member being of smaller diameter when contracted, than the substantially disk-shaped bottom to contract the sides radially and inwardly over the rigid bottom of the cup-shaped body.

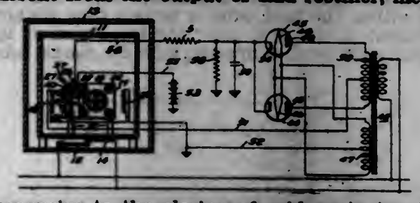
1,924,927
DUMPING RECEPTACLE
George O. Harm, Warren, and Robert E. McBride, Cleveland, Ohio, assignors to The Stevens Metal Products Company, Niles, Ohio, a corporation of Ohio
Application February 5, 1932. Serial No. 591,212
10 Claims. (Cl. 298—8)



1. The combination with a dumping truck body, of a tilting charging receptacle having an open top, said receptacle being pivotally mounted below its center of gravity on said body whereby the receptacle may be dumped upon tilting of the truck body out of its normal position, the turning axis of the receptacle being offset from the central longitudinal plane of the receptacle, a cover carried by the receptacle to close its open top, and means supported on the body for automatically removing the cover from the open top of the receptacle when the latter is moved to dumping position.

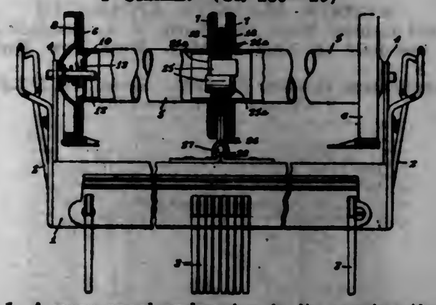
1,924,928
HEATING SYSTEM
Ralph N. Harmon, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Original application January 29, 1931, Serial No. 512,036, now Patent No. 1,835,647, dated December 8, 1931. Divided and this application November 21, 1931. Serial No. 576,459
2 Claims. (Cl. 219—20)

1. Electrical apparatus comprising a housing, a unit within said housing to be heated, a heater element for said unit, a thermostat responsive to temperature changes in said unit, said thermostat having contact points, a rectifier of the high-vacuum type having a control element therein, said heater element being supplied with current from the output of said rectifier, means



responsive to the closing of said contact points for changing the potential on said control element, a second housing substantially enclosing said first-mentioned housing in spaced relationship thereto and controlled heating means for regulating the temperature of the space between said housings.

1,924,929
YARN SPOOL
Edgar F. Hathaway, Wellesley, and Walter Bixby, Boston, Mass.
Application May 14, 1931. Serial No. 537,304
3 Claims. (Cl. 139—10)

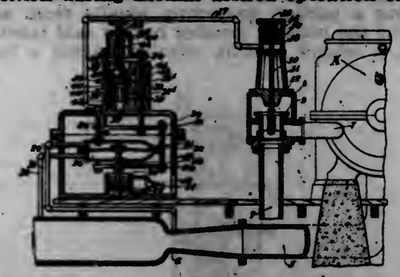


1. A yarn spool embracing in its construction, two coaxially aligned spool sections, an interposed bearing bracket provided with a bearing opening concentric with the axis of revolution of said spool sections, and a two-part bearing gudgeon each part projected from the end of one spool section into the interior of the other spool section through said bearing aperture in mutually lengthwise overlapping relation, the two members of the gudgeon forming a cylindrical bearing support fitting into said bearing opening and revolubly supporting both spool sections.

1,924,930
AUTOMATIC REGULATOR FOR PUMPS
Leslie R. Huff, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application April 25, 1930. Serial No. 447,260
5 Claims. (Cl. 230—9)

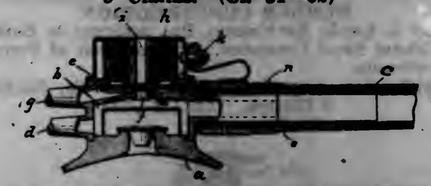
1. In combination with a turbo compressor and the like, an air intake passage, a steam supply pipe having a throttle valve therein, means constantly urging the valve to its seat, a pressure actuated piston connected to the throttle valve, a diaphragm adapted to respond to differential pressures created by the operation of the turbo compressor, a pressure fluid supply passage to the throttle valve piston, a chamber in the pressure fluid passage, a spring pressed valve in the

chamber to regulate the flow of pressure fluid to or from the throttle valve piston, means to adjust the spring pressed valve to balance it in neutral position during normal desired operation of the



turbo compressor, and a connection to convey movements of the diaphragm to said means to unbalance the valve and thereby vary the pressure on the throttle valve piston.

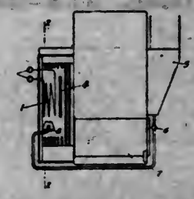
1,924,931
PULSATOR FOR MILKING MACHINES
John L. Hulbert, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application July 2, 1929. Serial No. 375,356
5 Claims. (Cl. 31—62)



1. In a milking machine, the combination with a milk pail and a pulsation pipe in which it is desired to produce pneumatic pulsations of definite duration, of means on the pail forming a vacuum chamber adapted to communicate with a source of suction and with the interior of the pail and having a port adapted to communicate with the pulsation pipe, an intermittently operable electro-magnet and means providing a passage adapted to communicate with a source of higher pressure and adapted to communicate with said pulsation pipe, an armature valve positioned between said port and passage and adapted to be moved, by the greater pressure through said passage, to close said port and to be moved against said greater pressure by the magnet, when energized, to make direct contact with the magnet pole and close said passage, the area of the armature valve face exposed to said higher pressure being greater than the pull of the residual magnetism divided by the difference in unit pressures operative on opposite sides of the armature valve, so that, when the magnet is de-energized, the residual magnetism will be ineffective to resist the actuation of said valve by said higher pressure.

1,924,932
SUPERHEATER
André Huet, Paris, France, assignor to The Superheater Company, New York, N. Y.
Application January 28, 1931, Serial No. 511,873, and in France July 3, 1930
5 Claims. (Cl. 122—460)

1. Process of generating and superheating steam in a superheater boiler comprising the steps of generating heating gases in a furnace, causing at least some of said gases to come into contact with boiler surfaces, causing at least some of said gases to come into contact with superheater surfaces, mingling with said gases just



before they come into contact with the superheater surfaces some gases taken from a point beyond the superheater with respect to the gas flow, and regulating the amount of said last named gases to control the degree of superheat.

1,924,933
SOCK FORM
Samuel J. Johnsen, Cincinnati, Ohio, assignor to The Seinsheimer Paper Company, Cincinnati, Ohio, a corporation of Ohio
Application February 4, 1932. Serial No. 590,925
1 Claim. (Cl. 223—17)

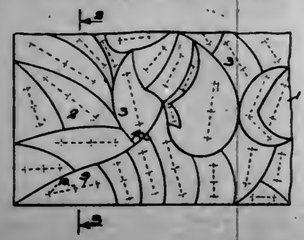


A sock mounting device, comprising, a form constructed of waterproof sheet material having the contour of a flattened sock, said form of sectional construction along the foot portion thereof for extending the foot, said sections having adjacently disposed slots therein extending longitudinally of the foot portion, and a plurality of fastening devices extended through said slots and adapted to be spaced along the slots, whereby the sections may be fixed in any desired extended position and are maintained in alignment.

1,924,934
METHOD OF PRODUCING ESTERS OF RESIN ACIDS
Alan C. Johnston, Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 25, 1930
Serial No. 447,427
24 Claims. (Cl. 260—98)

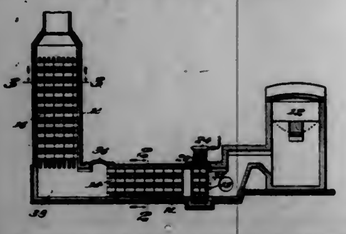
1. The method of producing an alkyl ester of resin, which includes subjecting resin and a monohydric aliphatic alcohol to heat under a pressure of 400–1700 pounds for a period sufficient to effect esterification of the resin.

1,924,935
QUILTED GOODS AND METHOD OF MAKING THE SAME
Benjamin F. Klein, Detroit, Mich.
Application July 29, 1932. Serial No. 626,246
5 Claims. (Cl. 2—278)



1. Quilted goods consisting of a translucent facing, an interlining behind said facing, quilting stitching extending through said facing and interlining and dividing the goods into a plurality of circumscribed quilted portions, and padding of different colorings in said quilted portions between the facing and the interlining, said stitching limiting the various sections each filled with padding of the desired coloring so that the different colorings of the padding in the various sections are clearly defined by said stitching and are visible through said facing.

1,924,936
FURNACE CONSTRUCTION
Charles E. Lehr, Bethlehem, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application August 22, 1931. Serial No. 558,688
10 Claims. (Cl. 263—15)



6. In the regenerative system for a furnace, a pair of discharge vents, flues connecting the respective ends of said furnace with said respective discharge vents, checker sections in said flues, a waste heat boiler, by-pass conduits communicating with said waste heat boiler and with said respective flues at points between said furnace and said checker sections, a fan, associated with each of said discharge vents, a duct connecting said waste heat boiler with the suction ports of said fans, a nozzle in each of said discharge vents connected to the discharge port of said respective fan, dampers in each of the said by-pass conduits and a damper in said duct.

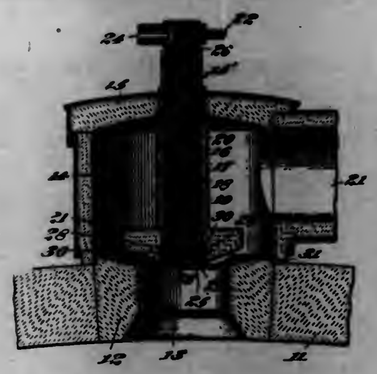
1,924,937
ANTIFRICTION BEARING
Fayette Leister, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut
Application May 27, 1930. Serial No. 456,030
2 Claims. (Cl. 308—189)

1. In a device of the character indicated, a bearing housing member having a tapered bore therein, an antifriction bearing ring having a tapered outer surface to fit said tapered bore so that said ring will be sustained in said bore against axial motion in one direction, said ring having a portion projecting axially from and beyond the housing member having said tapered bore, a second housing member having a bore



therein to fit upon and be piloted by the projecting portion of said bearing ring, said second housing member being in abutting relation to said first mentioned housing member when the parts are assembled, and means for detachably securing said housing members together in abutting relation.

1,924,938
BURNER CONSTRUCTION
Roy A. Lewis, Bethlehem, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application August 8, 1931. Serial No. 555,959
2 Claims. (Cl. 158—73)



1. In a burner for an open hearth furnace, a water cooled stem, a plurality of lugs on the outside surface and adjacent the end of said stem, a deflector disk of unitary construction and refractory composition provided with an axial hole closely engaging said stem and enveloping and receiving support from said lugs.

1,924,939
CURLING IRON
Estella Stokes McCandless, Highland Park, Mich.
Application May 26, 1932. Serial No. 613,679
6 Claims. (Cl. 219—24)

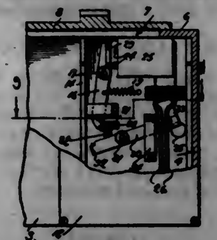
3. A curling iron comprising a pair of spaced heated elements, a pair of spaced elements projecting therefrom capable of springing toward each other, a handle over said spaced parts and having an interior shoulder, outwardly projecting

lips carried by the spaced parts, and a washer element adapted to be forced over the lips thus



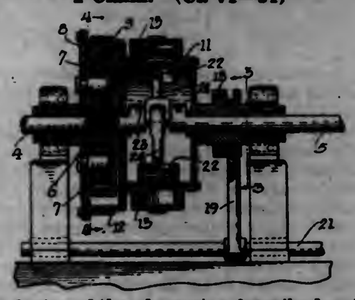
springing the parts together and engaged between the shoulder and lips.

1,924,940
ELECTRICALLY OPERATED DOORLOCK MECHANISM
Raymond Mike Hyla, Amsterdam, N. Y.
Application May 20, 1932. Serial No. 612,609
5 Claims. (Cl. 70—50)



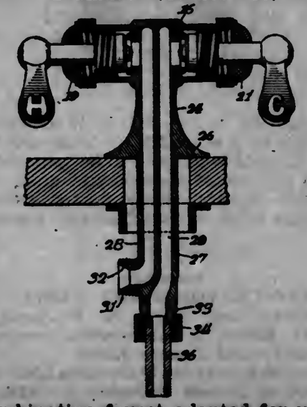
1. In door lock mechanism for mail boxes, lock mechanism for the door including a pivoted dog, a latch arm adapted to be moved into engagement with the dog, means for moving the dog to an inoperative position relative to the latch arm, means for holding the dog in inoperative position and the latch arm cooperating with the last named means during movement thereof for rendering the same ineffective for retaining the dog in inoperative position.

1,924,941
POWER TRANSMITTING APPARATUS
Joseph A. Josephsen, Arcadia, Calif.
Application November 8, 1932. Serial No. 641,783
1 Claim. (Cl. 74—34)



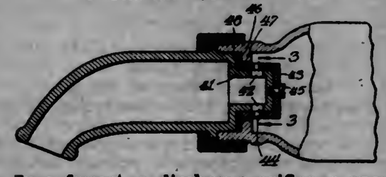
In a device of the character described, a driving shaft, a driven shaft, a plate rotatably positioned on said driving shaft, a gear secured to said driving shaft, a plurality of gears rotatably supported on said plate and meshing with said gear on said driving shaft, a ring gear secured to said driven shaft, a housing secured to said plate and rotatably supported on said driven shaft, a crank formed in said driven shaft, pistons connected to said crank and reciprocally movable in cylinders carried in said housing, fluid carrying pipes connecting said cylinders, a valve controlling the flow of fluid through said pipes, a brake band surrounding said housing and capable of preventing rotation of said housing with respect to said shafts.

1,924,942
WATER FAUCET
Samuel Kersten, Chicago, Ill.
Original application May 12, 1930, Serial No. 451,563. Divided and this application February 24, 1932. Serial No. 594,926
1 Claim. (Cl. 277—57)



A combination faucet adapted for use on the usual lavatory basin, said faucet including a faucet body having hot and cold water chambers disposed adjacent each other, a common spout, valve mechanism for controlling flow of hot and cold water to such spout, a downward integral extension of said body having hot and cold water passageways communicating directly with said valve chambers, a flange on said extension adapted to rest on top of the basin, the lower part of the extension projecting downwardly through the usual faucet opening, a threaded boss on one side of said extension near the end thereof for attachment of a pipe for supplying water to one passageway in said extension, and a central downwardly projecting threaded boss for attachment of a pipe for supplying water to the other of said passageways.

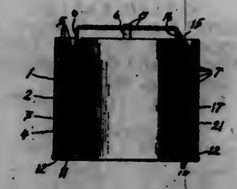
1,924,943
WATER FAUCET
Samuel Kersten, Chicago, Ill.
Original application May 12, 1930, Serial No. 451,563. Divided and this application February 24, 1932. Serial No. 594,927
6 Claims. (Cl. 251—9)



1. In a faucet, a discharge orifice, a spout attached to said orifice, an apertured head on the

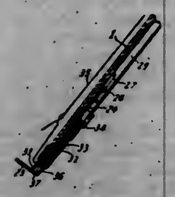
spout extending into said orifice, and a sleeve extending over said head provided with a plurality of sets of orifices of different size, each set adapted to be aligned with apertures in the head to control the volume of water passing therethrough.

1,924,944
PHOTOGRAPHIC FILM STRIP DEVELOPING DEVICE
Rufus J. Kittredge, Evanston, Ill.
Application October 23, 1931. Serial No. 570,665
16 Claims. (Cl. 95—100)



1. In a device of the character described the combination of a plurality of drum members of different diameters adapted to be nested by relative axial movement thereof one upon another and adapted to carry, while nested, portions of a continuous strip, wound helically thereon.

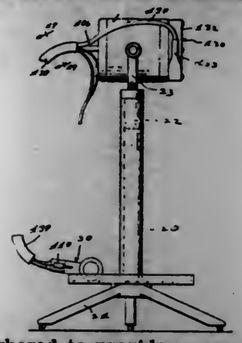
1,924,945
CONVERTIBLE BED TABLE
George Klotz, New York, N. Y., assignor to H. & G. Klotz, a partnership composed of Henri Klotz and George Klotz
Application February 4, 1929, Serial No. 337,257, and in France February 3, 1928
11 Claims. (Cl. 45—11)



1. In combination, a table, a ledge adapted to project above the upper surface of said table at the lower edge thereof, means for mounting said ledge in sliding relation to said table, comprising a pair of cleats, extending along, and serving to strengthen said table, grooves in said cleats, a crossbar sliding in said grooves, spring arms spaced apart and connected with said crossbar, said spring arms being connected at their extremity with said ledge, and means for holding said ledge in a desired position.

1,924,946
POWER TOOL
Leo F. Kott, Detroit, Mich.
Application May 25, 1931. Serial No. 539,980
20 Claims. (Cl. 153—48)

1. In a power tool, a reciprocable plunger, a spring constantly urging said plunger in one direction, and means for intermittently urging said plunger in the other direction, said means including a rotatable gear bored to receive said plunger



and counterbored to provide a cam surface engageable with said plunger.

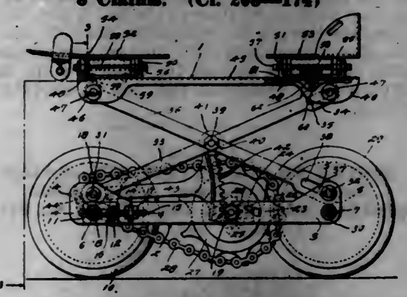
1,924,947
STABILIZED EGG PRODUCT
Wolf Kritchevsky, Benjamin R. Harris, and Carl J. Beckert, Chicago, Ill.
No Drawing. Application April 8, 1929
Serial No. 353,664
3 Claims. (Cl. 167—42)

1. A cosmetic adopted for external use and stable at normal climatic conditions comprising egg material and a preservative of the general formula

$$XO-CX_2-(CX_2)_{n-1}OX$$

in which n is any whole number, X is hydrogen, an alkyl group like methyl, ethyl or an hydroxy alkyl group like $-CH_2OH-CH_2CH_2OH$ or an acid radical like acetyl, and derivatives of the acid radical, said preservative being in the proportion of not less than 16 percent. of the water present in the finished product.

1,924,948
ROLLER SKATE
Edward O. Lieberenz, Jonesboro, Ark.
Application May 12, 1932. Serial No. 610,956
8 Claims. (Cl. 280—174)



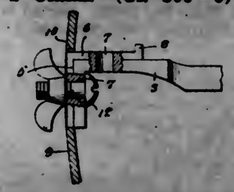
1. A roller skate of the character described, comprising a wheel supported frame including a pair of axles, wheels carried by said axles, a foot supporting body overlying said wheel supported frame, a lazy tong structure forming a connection between the frame and the overlying body permitting relative vertical movement between the frame and body, said lazy tong structure having a center pivot, a driving mechanism connected with one of said axles and carried by the frame, and means coupling said driving mechanism with the center pivot of the lazy tong connection for operating said driving means.

1,924,949
WATER CRAFT
Pietro Clemente Lombardini, London, England
Application April 1, 1931, Serial No. 526,937, and in Great Britain April 1, 1930
2 Claims. (Cl. 115—20)



1. A vessel having a buoyant hull adapted to float on water, the bottom of the hull being formed to provide a plurality of downwardly opening chambers, hollow cylindrical rollers mounted and partly housed, each in one of said chambers and protruding below the bottom of the hull, each roller having a circumferentially smooth periphery, each chamber extending rearward from the roller and opening upon the side of the hull whereby to accommodate the hollow rollers and provide means for conducting water away from the rear of said chambers, means carried by the hull for driving the hull forward, and power operated means for positively operating said rollers in a direction such that they tend to roll forward on the water, the peripheral velocity of the rollers being at least equal to the linear velocity of the hull whereby the reaction of the water on the exposed peripheral portions of the rollers will exert a lifting force on the hull to thus cause the vessel to travel forward with diminished immersion.

1,924,950
GARDEN TOOL
August W. Mandelke, Jr., Fort Dodge, Iowa
Application November 16, 1931
Serial No. 575,269
1 Claim. (Cl. 306—6)



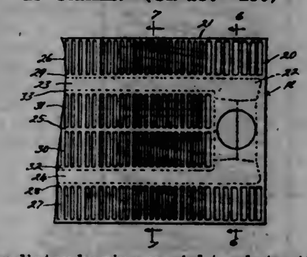
A garden tool comprising a head and connected handle, the head being formed with angularly related flat surfaces of which one is disposed substantially in the plane of the handle, centrally disposed ribs extending longitudinally across said flat surfaces, that rib on the surface in the plane of the handle being provided with an outstanding shoulder portion, the head being formed in both flat surfaces with openings passing through the ribs and through the head, a ground working tool comprising a shank formed with a longitudinal slot of a length sufficient to permit either of the ribs of said head to pass therethrough, said shank having an opening at an intermediate point in the length of the slot to register with either of the openings in the head, the shank being formed at opposite extremities with ground working elements of contrasting contour, and a bolt for securing the shank to the head on either of its flat surfaces to dispose it at an angle with the handle or in alignment therewith, or transversely of the handle on top of the rib provided with the shoulder, the hole in said shank registering with the adjacent hole in the head when the edge of said shank abuts said shoulder.

1,924,951
EYEGLASS FRAME
Frank G. Marciano, Providence, R. I., assignor to Universal Optical Corporation, Providence, R. I., a corporation of Rhode Island
Application December 26, 1929
Serial No. 416,603
3 Claims. (Cl. 88—45)



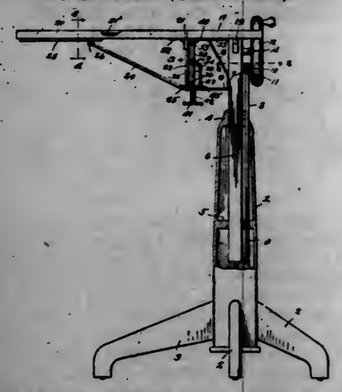
1. In combination, composition lens rims having enlarged nose gripping projections on the inner surface thereof, a bridge member consisting of a single integral sheet of relatively thin substantially flat resilient metal bent into legs comprising end portions projecting downwardly substantially parallel to the inner rim edges and adapted to have the outer sides thereof attached to each lens rim and portions projecting forwardly from the upper ends thereof in a plane substantially at right angles thereto, whereby on movement of said rims in a vertical plane said leg portions may be bent to a set position and a flat top portion joining the ends of said legs together in a plane at right angles to the ends thereof and parallel to the horizontal plane of said lens rims, whereby on movement of said rims in a horizontal plane away from their points of attachment to said bridge said top portion including the points of jointure thereof may be bent to a set position on a protracted movement thereof or for adjustment to resiliently return to its original set position on a short movement thereof, said bridge member having projections projecting outwardly from the upper ends of the side walls thereof embedded within adjacent portions of said rims and the lower ends of the legs thereof embedded within the nose gripping projections of the composition rims.

1,924,952
RADIATOR CONSTEUCTION
James F. McIntire, Detroit, Mich., assignor to United States Radiator Corporation, Detroit, Mich., a corporation of New York
Application January 3, 1933. Serial No. 650,012
15 Claims. (Cl. 257—150)



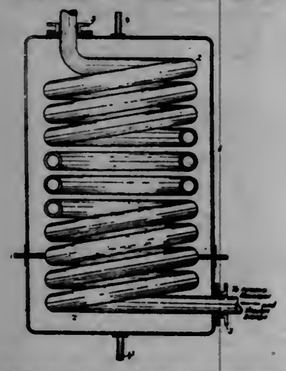
1.. A radiator having upright substantially parallel side walls, upright end walls extending between and forming with said side walls a substantially rectangular enclosure, headers within and rigid with said enclosure, fluid-ways also within said enclosure and connected to said headers, a partition between said fluid-ways and connected to said headers, and fins projecting laterally from opposite sides of said fluid-ways, certain of said fins being connected to said enclosure and others being connected to said partition.

1,924,953
TABLE
Homer F. Morse, Fort Morgan, Colo.
Application February 2, 1932. Serial No. 590,438
6 Claims. (Cl. 45—110)



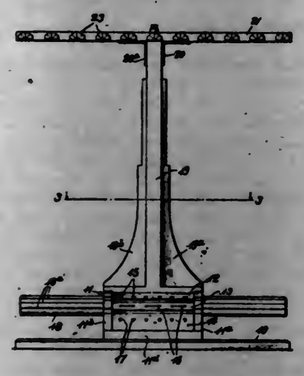
2. A table comprising a support, a wing, means for pivoting the wing to the support for lateral tilting movement about a substantially horizontal axis, a gear segment carried by the wing and disposed about said axis, a shaft, a pinion on the shaft and meshing with the segment, and a keeper on the support and engaging the pinion to hold the pinion against turning and to hold the wing against tilting, the shaft being longitudinally movable on the support to disengage the pinion from the keeper, the relative widths of the pinion and the segment being such that they will remain in mesh when the pinion is free from the keeper, and the shaft being rotatable on the support to tilt the wing, when the pinion is free from the keeper.

1,924,954
APPARATUS FOR OBTAINING HYDROGEN PEROXIDE BY DISTILLATION
Josef Müller, Weissenstein ob der Drau, Austria
Application December 19, 1929, Serial No. 415,368, and in Germany January 3, 1929
8 Claims. (Cl. 202—52)



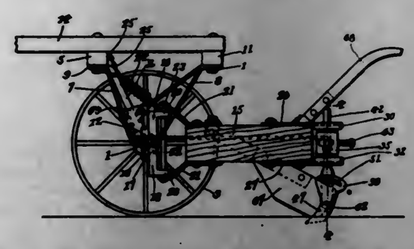
1. A process for obtaining hydrogen peroxide by distillation of solutions capable of liberating it, which consists in passing the solution and the liberated hydrogen peroxide vapors in the same direction through a heated ascending distilling tube of more than ten meters in length, the liquid to be distilled being admitted at the top of the said distilling tube to flow downwards.

1,924,955
DISPLAY DEVICE
Raymond E. Neifert, Brooklyn, N. Y., assignor to J. A. Delnatal & Son, Inc., New York, N. Y., a corporation of New York
Application September 13, 1932
Serial No. 632,998
2 Claims. (Cl. 211—1)



1. A display device comprising a base having a holder thereon, the holder being provided with means for displaying a plurality of articles, an arm supported above the base substantially parallel thereto, said arm having a corrugated upper surface with the corrugations extending longitudinally of the arm.

1,924,956
CULTIVATOR
Norman E. Nunnery, Headland, Ala.
Application May 14, 1932. Serial No. 611,416
3 Claims. (Cl. 97—198.1)



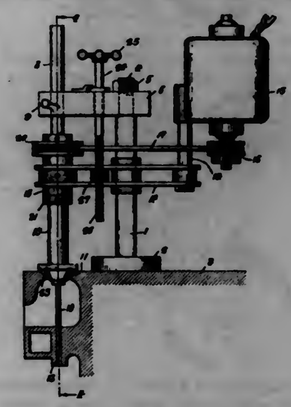
1. A cultivator comprising a gang structure for pivotal mounting at one end on the axle of the cultivator and including a pivoted horizontally movable beam, a pair of flat, oblong holder members secured to and extending from the rear end of the beam, a pair of superposed spaced oppositely disposed washers arranged adjacent the rear end of the beam and having their inner faces formed with tapered recesses and their outer faces with squared grooves, said members having their rear end portions seated in said grooves, a tubular vertical shank interposed between said washers and having tapered ends revolubly mounted in said recesses, a ground working shoe carried by the shank and bodily movable therewith, a handle member attached to the beam, and connections between said shank and the forward end of said structure to provide for the twisting of the shank when the beam is moved horizontally.

1,924,957
COMBINED CANE AND POPGUN
Melville L. Orr, Cincinnati, Ohio
Application January 25, 1933. Serial No. 653,529
2 Claims. (Cl. 46—46)



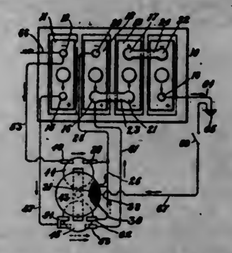
1. A cane of the character described comprising a stick, a barrel on one end of the stick and having openings therein, a stopper seat interiorly of the barrel next to the openings, a piston working in the barrel and having a plunger projected exteriorly thereof, means for tensioning the plunger, and a cork connected with the piston and engageable in and disengageable from the seat.

1,924,958
VALVE SEAT GRINDER
Augustus M. Patterson, Seneca, S. C., assignor of one-fourth to J. W. Byrd and one-fourth to J. L. Byrd, both of Seneca, S. C.
Application February 9, 1932. Serial No. 591,863
2 Claims. (Cl. 51—241)



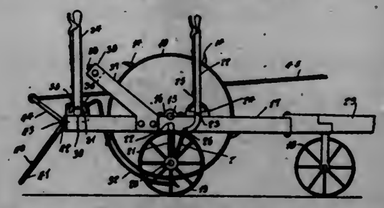
1. A valve seat grinder comprising a supporting post, a table slidable on the post, means for adjusting the table upwardly and downwardly on the post, power means carried by the table, a pilot shaft adjustably secured to the post, a grinding element secured to the table with the pilot shaft extending therein, and a pilot stem carried by the shaft and extending through the grinding element and adapted to pass through a valve seat into a valve guide.

1,924,959
STORAGE BATTERY APPARATUS
Luther M. Patterson, Jr., New Philadelphia, Ohio
Application December 24, 1930
Serial No. 504,556
7 Claims. (Cl. 171—314)



1. A 6–8 volt, four-cell engine-starting and lighting battery for automobiles, adapted for charging at substantially 6 volts and having two cells permanently connected in series with each other and with the other two which are connectible in series or parallel, in combination with a switch apparatus biased to connect said other two cells normally in parallel and having manually controllable means for connecting them in series to deliver a maximum of substantially 8 volts.

1,924,960
NONCLOGGING HARROW
Jason Prouty, Hillpoint, Wis.
Application April 27, 1932. Serial No. 607,821
3 Claims. (Cl. 55—11)

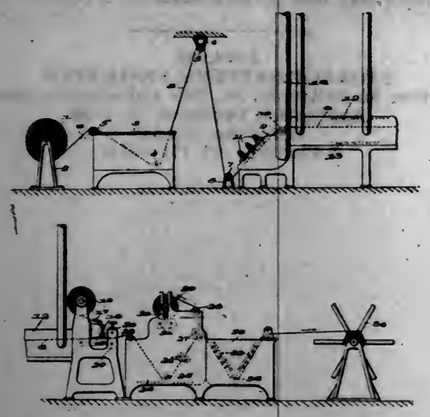


1. A machine of the class described comprising a frame, a harrow roller journaled thereon having teeth, spring tines on the frame between which said teeth are adapted to operate, said tines being positioned to engage the ground between the teeth on the roller to agitate the soil between the teeth, a shaft carrying said spring tines, and means for adjusting said shaft, said spring tines having elongated arcuate portions relatively close and conforming to the periphery of the roller.

1,924,961
PROCESS FOR MOUNTING DECORATIONS
Thomas S. Reese, Cleveland, Ohio
Application June 2, 1932. Serial No. 615,065
33 Claims. (Cl. 41—33)

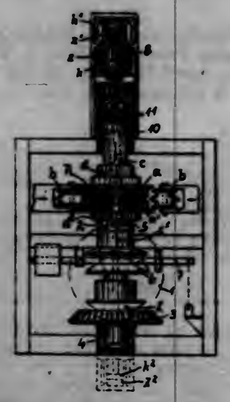
1. In the art of decorating the steps of preparing a bonding medium containing a body material and a low vapor pressure solvent, uniting a decoration and a base material by interposing said bonding medium therebetween and by bringing the bonding medium and the decoration into contact one with the other, said solvent boiling

within the temperature range of 150° to 225° C., said solvent being a solvent for the bonding me-



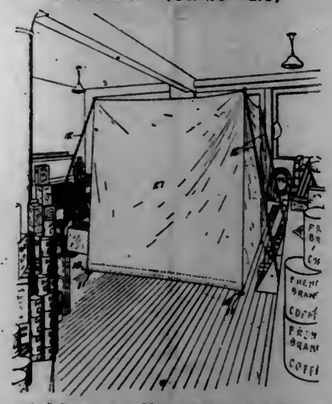
dium and the decoration, and baking the ensemble at substantially atmospheric pressure.

1,924,962
MACHINE FOR WORKING WHEEL, ROLLER, AND LIKE BLANKS
Josef Rosenbaum, Gelsenkirchen, Germany
Application January 10, 1931, Serial No. 507,950, and in Germany January 17, 1930
7 Claims. (Cl. 29—35)



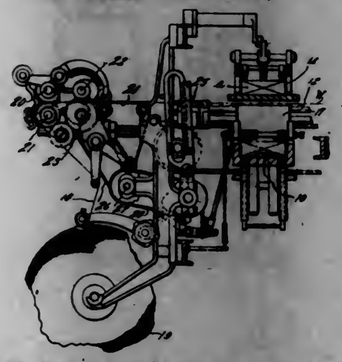
1. A combined pressing and rolling mill for finishing preformed blanks of wheels, rollers, pulleys and the like, comprising a pair of pressing jaws having means whereby they are mounted for rotation and means whereby one jaw is movable toward and from the other, said jaws being shaped on their opposing sides to correspond to the shape of the work piece; pressure rollers arranged laterally of the pressing jaws formed to correspond to the shape of the rim of the wheel or other work piece, means whereby said pressure rollers are adapted to be moved toward and from the pressing jaws to impart the required shape to the rim of the work piece and means for finishing the shape of the hub of the work piece and for boring the same, said means extending through the centers of the pressing jaws and being arranged to operate during the same working cycle as the pressing jaws and the pressure rollers.

1,924,963
STORE
Clarence O. Sherrill, Cincinnati, Ohio, assignor to The Kroger Grocery & Baking Company, Cincinnati, Ohio, a corporation of Ohio
Application November 4, 1931. Serial No. 572,990
6 Claims. (Cl. 20—1.6)



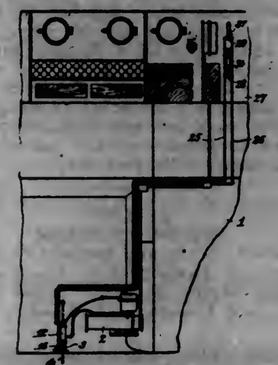
1. A portable and collapsible partition structure for the purpose described comprising uprights removably mounted in sockets in floor plates appropriately positioned around the space to be partitioned off in a store, flexible connections connecting said uprights at their upper and lower ends, means for appropriately supporting the structure, flexible material mounted upon said connections of the structure, attachments for connecting the front ends of the side members of the structure to the door frame of the store, and a lock for securing the structure in place, substantially as set forth.

1,924,964
WRAPPING MACHINE
Elmer L. Smith, Longmeadow, Mass., assignor to Package Machinery Company, Springfield, Mass., a corporation of Massachusetts
Application September 27, 1928, Serial No. 308,800. Renewed November 11, 1931
5 Claims. (Cl. 93—2)



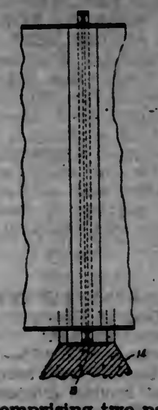
1. In a wrapping machine, a continuously moving article feeding belt conveyor, a reciprocating plunger operable to remove articles from said conveyor, said plunger having an abutment positioned by article feeding movement of the plunger to prevent movement of articles along the conveyor while the plunger is engaged in said feeding movement, and a member whose normal position is in the path of movement of articles upon the conveyor movable in timed relation to the plunger to release a held-back article only at a time when said article will not be incompletely positioned in line with the plunger by the conveyor before the plunger starts its article feeding movement, said member being yieldably mounted so as not to interfere with the passage of a continuous or properly timed succession of articles along the conveyor.

1,924,965
REMOTE CONTROL FOR PITOT TUBES
Richard Star, Brooklyn, N. Y.
Application July 3, 1931. Serial No. 548,699
5 Claims. (Cl. 73—122)



3. A Pitot tube actuating structure including an air actuated power device directly connected with the Pitot tube, pipes leading from said power device to a distant point, means at said distant point for providing air under pressure to said pipes for actuating said power device, and a pair of control valves at said distant point controlling the flow of air in said pipes, one of said valves being connected to said air supply means for controlling the flow of air from said air supply means to either of the pipes according to the direction of movement of said power device, and the other valve controlling the exhaust of air from said pipes.

1,924,966
PIPE SECTION
James E. Trainer, Fairlawn, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application April 11, 1933. Serial No. 665,471
8 Claims. (Cl. 285—111)



1. A conduit comprising two parts, and an insert secured therebetween and constituting a part of the conduit, said insert conforming on the inside of the conduit to the uniform contour of the inner wall of the conduit and graduated in thickness from its joints with the conduit parts toward a midsection, the maximum thickness thereof being at the mid-section.

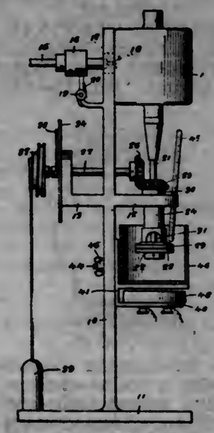
1,924,967
PROPELLANT POWDER AND PROCESS OF MAKING THE SAME
William E. Wagner, Alton, Ill., assignor to Western Cartridge Company, East Alton, Ill., a corporation of Delaware
No Drawing. Application December 8, 1930 Serial No. 500,875
7 Claims. (Cl. 52—20)

1. In the art of making propellant powders, the process comprising, treating powder grains with a deterrent carried by only sufficient of a highly volatile vehicle to wet the powder grains, and evaporating the vehicle, the contact of the deterrent-carrying vehicle and its evaporation being controlled to carry the deterrent into the grains sufficiently to secure the desired ballistics.

1,924,968
PROCESS FOR THE MANUFACTURE OF VACCINES
Werner Weichlein, Prenzlau, Germany
No Drawing. Application December 20, 1927, Serial No. 241,455, and in Germany December 24, 1926
2 Claims. (Cl. 167—78)

1. Process for the manufacture of inoculation vaccines consisting in mixing the infectious matter with watery solutions of aniline dyes and then maintaining the mixture at a blood temperature of 37° C. for a period of at least 24 hours up to two days, whereby all bacteria in the infectious matter is killed.

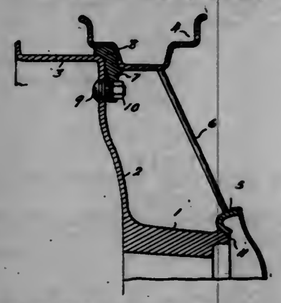
1,924,969
DEVICE FOR TESTING THE VISCOSITY OF LIQUIDS
Marion B. Wheeler, Raleigh, N. C.
Application January 20, 1931. Serial No. 510,054
1 Claim. (Cl. 265—11)



In a device for testing liquids, a frame, a liquid container removably supported thereby, means to heat the liquid within the container, a driving disk operating within the container, means to operate the driving disk, a tubular

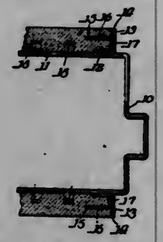
driven member including a disk arranged adjacent to and spaced from the driving disk and having a liquid reservoir communicative with said container and said driving disk to admit liquid between the disks and provide a coupling to operate the driven member, means to retard operation of the driven member, and an indicator operated by the driven member, the distance between the disks remaining fixed while the latter are rotating.

1,924,970
WHEEL
Charles S. Ash, Birmingham, Mich., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a corporation of New York
Application December 29, 1930
Serial No. 505,374
1 Claim. (Cl. 301—11)



In a vehicle wheel, the combination with a hub member and a web member thereon, of a demountable rim having an annular drop-center portion and lugs each having an outer portion engaging and secured to the rear side wall of said drop-center portion and the lateral wall connecting into the outer edge of said side wall, said outer portion extending over and being radially supported upon said web member, each of said lugs also having an inner portion extending at the side of said web member, and means detachably engaging said inner portions for detachably securing said rim to said web member.

1,924,971
PLASTER TERMINAL
Isaac A. Baum, Chicago, Ill.
Application November 5, 1930. Serial No. 493,591
5 Claims. (Cl. 72—98)



1. In means for defining a plaster limit, the combination with a frame element, of a metal flange projecting substantially perpendicularly therefrom, and a perforated flange projecting substantially perpendicularly from the inside face of said first named flange and into the plaster space alongside said metal flange, said perforated flange throughout its width being in spaced relation to the frame element.

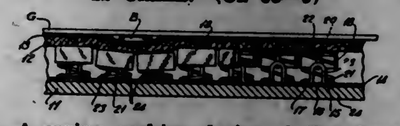
1,924,972
STABILIZED EGG PRODUCT
Carl J. Beckert, Wolf Kritchevsky, and Benjamin R. Harris, Chicago, Ill.
No Drawing. Application April 15, 1929
Serial No. 355,412
3 Claims. (Cl. 167—63)

1. A composition of matter adapted for external use and stable under normal living temperature and climatic conditions, comprising egg material and a mono-hydric alcohol of the general formula

$$CX_3-(CX_2)_{n-1}-CX_2OX$$

in which n is any whole number, X is hydrogen, or an alkyl group like methyl, ethyl, etc., or an alcoholic radical like CH_2CH_2OH or an acid radical like acetyl, etc., and derivatives of the said radicals, the total amount of carbon being not less than three, said preservative being present in the proportion of not less than 7½ percent nor more than 20 percent of the amount of water present in the finished product.

1,924,973
SPRING CUSHION
Robert J. Beede and Herbert G. Beede, Pawtucket, R. I.
Application August 10, 1932. Serial No. 628,244
12 Claims. (Cl. 68—9)



1. A spring cushion device of the character described comprising a plate provided with a plurality of openings spaced at regular intervals, a U-shaped member having portions extending through each of said openings and having portions disposed on each side of the plate, a cap over each of said U-shaped members on one side of the plate, means carried by each of said caps and engaging said U-shaped members to hold the caps on the plate, and a coil spring between each cap and the plate urging the cap away from the plate, said engaging means and U-shaped members restricting the movement of the caps away from the plate but permitting approaching movement of the caps toward the plate under pressure.

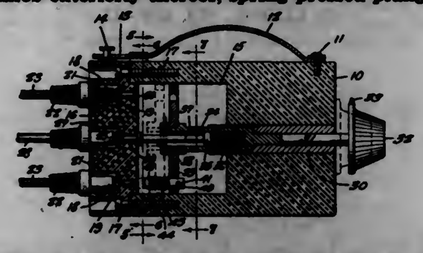
1,924,974
ARTIFICIAL SPONGE FOR SCOURING METAL AND ENAMEL WARE
Abraham Blustein, Washington, D. C.
No Drawing. Application February 14, 1929
Serial No. 340,624
6 Claims. (Cl. 51—279)

5. The process of making a scouring device comprising the steps of preparing a rubber compound suitable for the manufacture of sponge rubber, commingling with said rubber compound a predetermined quantity of steel wool and converting said rubber compound into sponge rubber.

1,924,975
ENGINE TESTER
Thomas George Bloor, Coplay, Pa.
Application October 27, 1931. Serial No. 571,472
5 Claims. (Cl. 175—183)

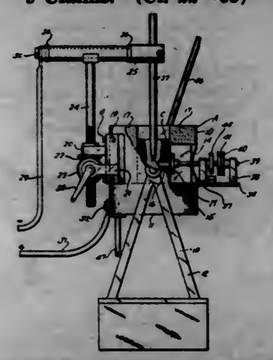
1. An engine tester comprising a body of insulating material having a chamber therein, a disk on one end of the body closing said chamber, a central contact carried by said disk and

adapted to be grounded, a circular series of contacts carried by said disk and adapted to be connected with the successive spark plugs of an engine to be tested, a stem of metal slidable and rotatable axially through said body and carrying a knob exteriorly thereof, spring pressed plunger



means carried by the stem in electrical connection therewith and always engaging said central contact, a metallic disk carried by the stem, and a series of contacts carried by said metal disk and adapted to be engaged selectively with all but one of said circular series of contacts.

1,924,976
CENTRIFUGAL CASTING MACHINE
Lucian H. Brown, Kokomo, Ind., assignor to Haynes Stellite Company, a corporation of Indiana
Application June 7, 1929. Serial No. 369,208
9 Claims. (Cl. 22—65)



1. The combination in a centrifugal casting machine of a furnace; a crucible in said furnace adapted for holding the ingredients of an alloy and provided with a lateral aperture therein above said ingredients; heating means carried by said furnace for fusing said ingredients to form an alloy; a rotatable mold carried by said furnace outside thereof but movable into said furnace opposite said aperture at the time of casting; and means for tilting said furnace, crucible, heating means and rotating mold, as a unit to cast said alloy.

1,924,977
REEL FOR MOTION PICTURE MACHINES
Philip Buhler, New York, N. Y., assignor of one-half to Frank Buhler, New York, N. Y.
Application May 8, 1931. Serial No. 535,976
6 Claims. (Cl. 242—70)

1. In a reel, two members, each having a hub portion with spokes at the outer end of the hub portion and a rim connecting the outer terminals of the spokes; means for holding the two members at their hub portions, and a bearing member rigidly secured to the hub portions by teeth on the bearing member which cut into the hub portions, the teeth serving as an additional means to hold the hub portions together.



1,924,978
MOP
Vera M. Bullis, Winchester, N. H.
Application June 16, 1932. Serial No. 617,642
1 Claim. (Cl. 15—228)



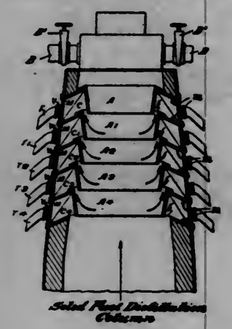
A mop comprising, in combination, a head having a pair of resilient curved arms having their inbows opposed and adjacent each other, a flexible dusting element comprising an elongated closed casing to receive the arms, a wall of the casing in its central portion having an opening of less length than the maximum distance between said arms for the admission or withdrawal of the arms with respect to the casing, the inner portions of the arms being connected by an integral curved intermediate portion, the portions of the dusting element at opposite sides of the opening when the element is applied to the arms conforming to the general curvature of the arms, and a handle member secured to the part of the intermediate portion of the head extending across the opening of the dusting element when said dusting element is applied.

1,924,979
ACETYLENE POLYMERS AND PROCESS OF MAKING SAME
William S. Calcott, Penns Grove, and Frederick B. Downing, Carneys Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 26, 1928
Serial No. 288,528
19 Claims. (Cl. 260—2)

4. The process of inhibiting the formation of explosive compounds during the polymerization

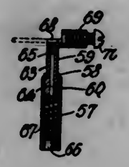
of polymerizable polymers of acetylene which comprises carrying out the polymerization of an inert atmosphere.

1,924,980
SOLID FUEL DISTILLING APPARATUS
Louis Chavanne, Paris, France
Original application January 30, 1926, Serial No. 85,050, and in France February 11, 1925. Divided and this application May 1, 1929. Serial No. 359,691
6 Claims. (Cl. 202—257)



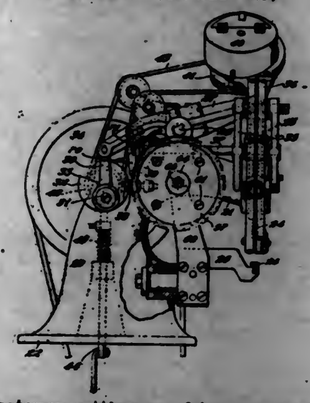
1. A wall for a solid fuel distilling apparatus comprising a series of superposed rings of adjacent collecting chambers with inner walls slightly inclined down and inwardly, external outlet piping for each ring, and bottom walls for said chambers sloping down and outwardly towards the junction of said external piping equipment.

1,924,981
SEWING MACHINE ATTACHMENT
Andrew B. Clark, Thomasville, Ga., assignor of one-half to Judge Roscoe Luke, Thomasville, Ga.
Application September 9, 1931. Serial No. 561,919
1 Claim. (Cl. 112—223)



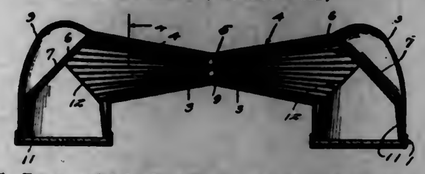
A device of the class described, comprising a tubular carrier, a slide in the carrier and having a transverse needle-receiving seat in its outer end, the slide having a longitudinal bore leading to the seat, a threading finger secured to the carrier and having a lateral notch, the notch being housed in the bore when the finger is retracted and the finger filling the bore, thereby to keep the notch free of dirt, the length of the finger being such that when it is retracted, the end of the finger is substantially flush with the base of the seat, thereby to aid in keeping the bore free of dirt, spring means for producing relative longitudinal movement between the carrier and the slide, thereby to retract the finger, means for limiting said relative longitudinal movement responsive to the spring means, and means for holding the slide and the carrier against relative rotation.

1,924,982
FASTENER SETTING MACHINE
William J. De Witt, Auburn, N. Y., assignor to Shoe Form Co., Inc., Auburn, N. Y., a corporation of New York
Application June 10, 1932. Serial No. 616,380
20 Claims. (Cl. 218—15)



1. A fastener setting machine comprising setting tools arranged to apply upsetting and clenching pressure against the fasteners, and means independent of the material treated for automatically varying the distance between said tools when the setting operation is performed.

1,924,983
VEHICLE HEADLIGHT
Clarence William Dietrich, Saginaw, Mich.
Application April 2, 1932. Serial No. 602,808
2 Claims. (Cl. 240—7.1)

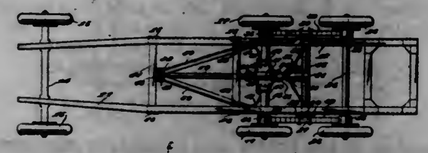


1. In a vehicle headlight structure, a pair of spaced projector casings arranged with the axial centers thereof substantially parallel, a body connecting the adjacent sides of said casings comprising a tubular casing constricted about its transverse center and of gradually increasing diameter from the said center to each end, each of said ends opening through the side of a projector casing, an incandescent light source within said tubular casing at the constricted point thereof, a reflecting body within each of said projector casings and disposed obliquely thereof and with respect to said tubular casing, and a sleeve body within each of said projector casings between the reflecting body therein and the front thereof and having its interior surface polished.

1,924,984
MULTIWHEEL ROAD VEHICLE
Rollie B. Fageol, Los Angeles, Calif., assignor, by mesne assignments, to Automotive Engineering Corporation, a corporation of Delaware
Application December 12, 1929
Serial No. 413,647
20 Claims. (Cl. 180—22)

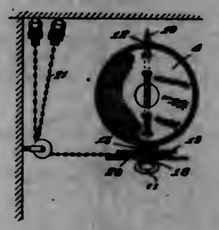
1. A multi-wheel road vehicle including a frame; a drive and a dead axle supporting one

end of said frame; underslung springs connecting said axles adjacent opposite sides of said frame; said springs being pivotally connected to said frame between their ends and attached to said axles by hangers pivotally attached to said axles and to said springs; a Hotchkiss drive shaft for said drive axle including a universal joint supported by said frame; a frame-like member to



resist the torque reactions independently of said springs rigidly attached to said drive axle and to said frame supported universal joint in a manner such that said member is capable of movement about a center approximately coincident with the center of said joint; said member being formed to prevent said drive axle from moving endwise of said frame.

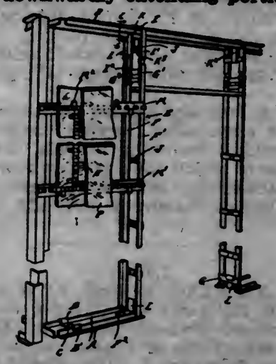
1,924,985
DISK DAMPER CONTROL
Victor F. Feipel, Fort Wayne, Ind.
Application February 5, 1932. Serial No. 591,163
1 Claim. (Cl. 126—286)



In combination with a damper supporting rod provided with an apertured handle, a circular disk having a centrally arranged opening to receive the rod prior to the passage of the latter through a smoke stack and its application to a damper plate in said stack, said disk having apertures arranged around the opening, a flexible element threaded through the apertures and the apertured handle, flanges formed on said disk and receiving therebetween an operating means, one of said flanges projecting beyond the other flange to prevent the operating means from feeding off the disk, and a securing means between one of the flanges and the operating means.

1,924,986
PARTITION WALL AND METHOD OF CONSTRUCTING THE SAME
Kenneth S. Frazier, Detroit, Mich., assignor to Detroit Steel Products Company, Detroit, Mich., a corporation of Michigan
Application July 21, 1930. Serial No. 469,521
5 Claims. (Cl. 72—46)

1. In a partition wall, a stud comprising parallelly arranged angle bars and cross plates connecting the same, an extension member for said stud formed of aligned parallelly arranged angle bars and a cross connecting plate, and angle bars having a portion nesting within the bars of said extension and welded thereto and also having a downwardly extending portion nesting



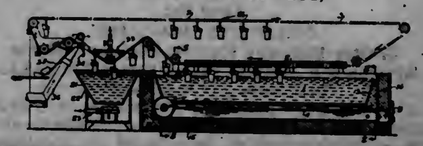
within and slidably engaging the angle bars of the main portion of said stud.

1,924,987
COMBINATION LOCK
Antonio Furino, Brooklyn, N. Y.
Application October 17, 1932. Serial No. 638,233
2 Claims. (Cl. 70—113)



1. A combination lock including a body, a member to be locked insertable in the body, freely rotatable locking rings adapted to be moved to a predetermined relation with reference to each other and the body to release said member and dialing rings surrounding the locking rings and so connected therewith that when the locking rings are held against movement, the dialing rings may be moved with reference thereto for changing the combination, the connection between said locking and dialing rings consisting of a notched portion of the outer periphery of the locking ring and a leaf spring arranged in said notched portion and anchored at one end thereof to the locking ring with the free end of said leaf spring frictionally engaging with the inner periphery of the dialing ring.

1,924,988
QUICK FREEZING SYSTEM
Ralph V. Grayson and Edgar G. Ballenger, Atlanta, Ga.; said Grayson assignor to Patent and Security Holding Corporation, Tampa, Fla., a corporation of Florida
Application December 16, 1931
Serial No. 581,451
17 Claims. (Cl. 62—104)



10. Quick freezing system comprising means providing a refrigerating bath, means comprising a thawing bath, and means for transporting packages of the product to be frozen successively

through said refrigerating bath and said thawing bath at a rate of speed to accomplish freezing of the product in its transit through the refrigerating bath, said transporting means including a conveyor and racks forming parts of said conveyor for suspending said packages in said baths.

15. Quick freezing system comprising a conduit for a circulating freezing medium, a part of said conduit including tunnels, the adjacent outer walls of which converge downwardly forming a chamber for solid refrigerant, the walls of said tunnels having a laterally undulating contour.

1,924,989
PACKING HOUSE BENCH
Howard T. Hallowell, Jenkintown, Pa., assignor to Standard Pressed Steel Co., Jenkintown, Pa., a corporation of Pennsylvania
Application February 3, 1932. Serial No. 590,737
4 Claims. (Cl. 45—31)



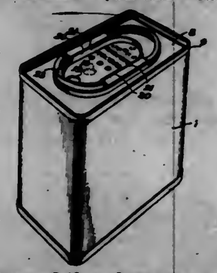
1. The combination in a packing house bench, of legs; means for bracing the legs, each leg having a top angle bar, said bar having a vertical member and a horizontal member; a longitudinal metallic plate secured to the vertical member of the angle bar and forming a portion of the top of the bench, the plate having flanges at its ends secured to the top angle bars of the legs; and a removable cutting section mounted on the horizontal portion of the angle bars.

1,924,990
STABILIZED EGG PRODUCT
Benjamin R. Harris, Carl J. Beckert, and Wolf Kritchevsky, Chicago, Ill.
No Drawing. Application April 8, 1929
Serial No. 353,684
2 Claims. (Cl. 167—63)

1. A cosmetic adapted for external use and stable under ordinary climatic conditions, comprising an emulsion of egg material, a preservative comprising a trihydric alcohol of the general formula

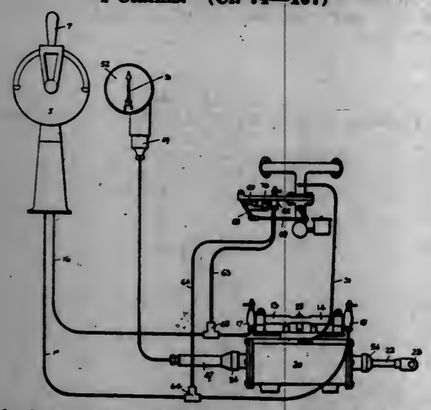
$$XO-CX_2OX-(CX_2)_{n-1}-CX_2OX$$
$$\quad\quad\quad

1,924,999
CONTAINER
Wallace C. Mills, Rockford, Ill., assignor to J. L. Clark Manufacturing Co., Rockford, Ill., a corporation of Illinois
Application October 13, 1932. Serial No. 637,572
4 Claims. (Cl. 221—62)



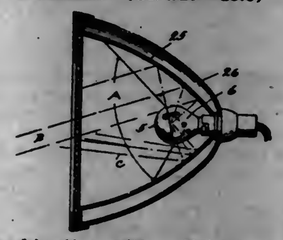
1. A container of the character set forth having a body with an end wall comprising a top plate with a series of sifter openings therein and a pouring opening, a slide mounted on the top plate exteriorly thereof and also having sifter and pouring openings with said openings arranged so that in one position of the slide the pouring openings are adapted to register and in another position of the slide the sifter openings are adapted to register, and a spout mounted on the slide adjacent the pouring opening therein.

1,925,000
REMOTE CONTROL APPARATUS FOR POWER DRIVEN BOATS
Ernest Edgar Edward Mullins, Stockport, England
Application September 1, 1932, Serial No. 631,434, and in Great Britain October 28, 1931
4 Claims. (Cl. 74—107)



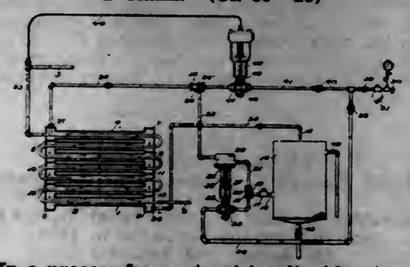
1. A remote control apparatus for motor driven boats and the like, comprising a primary unit formed of a manually controlled lever, a fluid container system, means for forcing fluid from one part of the system through a conduit and simultaneously drawing in fluid at another part of the container system through a conduit, and a secondary unit comprising a fluid container system and a piston or pistons moved in the container system by the forcing in of fluid at one part of the system and drawing out of fluid at the other part of the system, and means for connecting said piston or member to the gear lever or control member, and means whereby a carburetter or throttle control is operated hydraulically by the operation of the hand lever of the primary unit, comprising two piston cylinders, a piston working in each cylinder having a piston rod which passes through the cylinder head, a carburetter control lever or member actuated by the pressure of the piston rods, a spring pressing each piston rod into the cylinder and conduits connecting the inner ends of the cylinders so that fluid is forced into one cylinder and withdrawn from the other by the said primary unit after the manually operated lever has been moved to actuate the gear lever into the forward or reverse positions.

1,925,001
LIGHT DIMMER
Walter J. Penney, West Haven, Conn.
Application July 30, 1932. Serial No. 626,966
3 Claims. (Cl. 240—48.6)



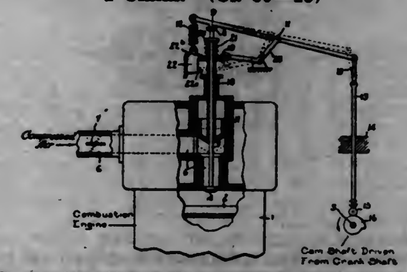
2. In combination with a light bulb having a plurality of adjacent annular grooves about the tip thereof and a plurality of annular ridges separating said grooves, a dimmer comprising a shell, a plurality of fingers associated with the shell at predetermined positions, a portion of the edge of said shell engaging a portion of one side of one of said ridges, and means on said shell coacting with the bulb to maintain the shell in adjusted position thereon, said means consisting of a plurality of projections on the inner surface of the shell and spaced from the edge thereof, certain of said projections seating in one groove on said bulb and the other projections seating in another groove thereon.

1,925,002
PROCESS OF PASTEURIZATION
Frank C. Reeder, Knoxville, Tenn., assignor to The Fulton Syphon Company, Knoxville, Tenn., a corporation of Delaware
Original application May 28, 1928, Serial No. 281,244. Divided and this application August 4, 1930. Serial No. 472,962
1 Claim. (Cl. 99—15)



In a process for pasteurizing liquids, circulating the liquid to be pasteurized, circulating a heating fluid in heat interchanging relation with said liquid to be pasteurized, injecting steam into said heating fluid to circulate the same and raise the temperature thereof to a temperature predeterminately below that of pasteurization, thermostatically controlling the amount of said steam injection in conformity with the temperature of said heating fluid after it has been heated by said injection of steam but before it flows into heat interchanging relation with the liquid to oe pasteurized, injecting steam into said heating fluid in a second stage to impart additional kinetic energy to said heating fluid and to raise its temperature to the predetermined pasteurizing temperature before flowing into heat interchanging relation with said liquid to be pasteurized controlling the amount of said second injection of steam from the temperature of the pasteurized liquid as it flows out of heat interchanging relationship with said heating fluid.

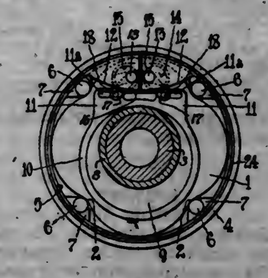
1,925,003
INTERNAL COMBUSTION ENGINE
Alfred Renner, Berlin-Tegel, Germany, assignor to General Electric Company, a corporation of New York
Application December 4, 1931, Serial No. 579,079, and in Germany December 19, 1930
1 Claim. (Cl. 60—16)



In combination with a combustion engine having a cylinder, a cam shaft, a starting cam on the shaft, a starting valve for the cylinder, a stem for the starting valve, a conduit including a valve for conducting compressed air to the starting valve for starting the engine, means for automatically actuating the valve means comprising a lever mechanism having a variable fulcrum and a portion engaging the valve stem, biasing means for maintaining engagement between said portion and the stem, a roller for the lever mechanism normally out of engagement with the cam, means for varying the fulcrum of the lever mechanism to cause engagement between the roller and the cam, said last named means including a fulcrumed bell crank lever having one end pivoted to the variable fulcrum of the lever mechanism and a pressure piston extending into the conduit and having a hollow, flanged stem pivoted to the other end of the bell crank lever, the first named valve stem extending slidably through the stem of the pressure piston, stop means for limiting the movement of the pressure piston, a spring surrounding the stem of the starting valve and bearing against said flange for normally forcing the starting valve against its seat and putting the starting mechanism out of its operative position when the conduit valve is closed.

1,925,004
BRAKE OR CLUTCH
Martin George Turner Priest, New Plymouth, New Zealand, assignor to Priest's Brake Development Company, Limited, New Plymouth, New Zealand, a company of New Zealand
Application July 11, 1930. Serial No. 467,389
6 Claims. (Cl. 188—78)

1. In a frictional coupling device of the kind described, means for operating an expanding ring, comprising a sleeve having an eccentric thereon and loosely mounted upon a member; a further sleeve slidably keyed on the latter and passing on the first mentioned sleeve; and a



pin on one sleeve co-acting with an inclined slot in the other sleeve, whereby sliding movement of the sliding sleeve effects turning movement of the other sleeve, substantially as described and illustrated.

1,925,005
COAL TREATMENT PROCESS
Harold J. Rose, Penn Township, Allegheny County, and William H. Hill, Pittsburgh, Pa., assignors to The Koppers Company, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application March 25, 1926 Serial No. 97,467
6 Claims. (Cl. 44—1)

1. A process of producing in effect a substantially complete dissolving of the pure coal substance of raw original coal, comprising: bringing together raw original coal and, as a solvent therefor, a high-boiling organic compound that is liquid at the temperatures employed in the process and comprises one of the group consisting of cyclic hydrocarbons and their derivatives and oils and resins containing them, and subjecting them to a temperature above about 200° C. and below that at which there is any substantial chemical heat-decomposition of the pure coal substance that constitutes substantially the entire bulk of the given raw original coal other than its content of ash, mineral charcoal, sulphur and like insoluble impurities, and continuing the treatment, without exceeding the aforesaid upper limit of temperature, until there has been in effect a substantially complete dissolving, without substantial chemical decomposition or extraction of constituents, of the said pure coal substance retaining substantially unchanged the chemical characteristics of the pure coal substance of the original raw coal, irrespectively of any disintegration or separation of the aforesaid ash, mineral charcoal, sulphur and like impurities of said original raw coal.

1,925,006
AUDIBLE FIGURE TOY
Walter Ross, Flushing, N. Y.
Application April 6, 1933. Serial No. 664,821
4 Claims. (Cl. 46—40)

1. In a structure of the class described, a horizontally elongated base, a fixedly mounted figure toy attached to and rising from said base, said toy simulating a dog, said toy including a pivoted jaw and a pivoted tail, a bellows for emitting barking sounds, a holder for said bellows, a presser block co-operable with the bellows, a lever pivotally mounted intermediate its ends on

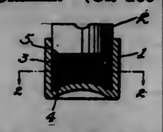
CARNEGIE LIBRARY OF ATLANTA

said holder and having one end bearing on said block, a return spring connected to the opposite



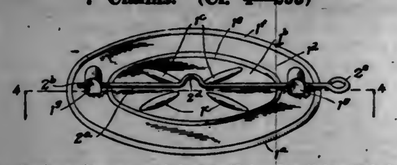
end of the lever, and unitary operating means for the tail, jaw, and lever.

1,925,007
FUSIBLE UNIT
Arthur C. Rowley, Philadelphia, Pa., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 11, 1930. Serial No. 460,510
12 Claims. (Cl. 169—42)



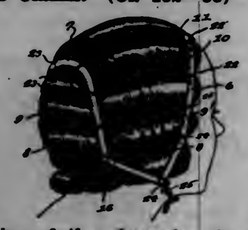
6. In a fusible unit, a container, a fusible load-sustaining compound confined within said container, and means within the container for sealing said compound therein.

1,925,008
SINK STOPPLE
William F. Schacht, Huntington, Ind.
Application February 11, 1933. Serial No. 656,322
7 Claims. (Cl. 4—293)



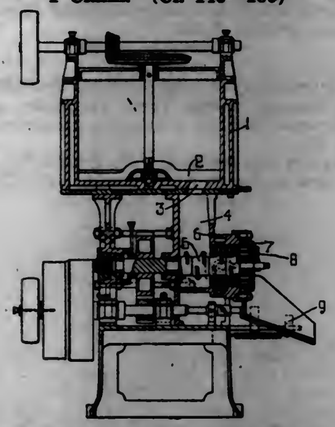
1. A stopple comprising a thin flexible disk having a flat lower face and a thickened rim; diametrically disposed lugs on the disk; and a rod extending through the said lugs to form a handle, said rod having means for raising the rim to break the suction thereunder when it is desired to release the stopple.

1,925,009
MEANS FOR RETAINING A MARCEL WAVE IN HAIR
Harry Siegel, New York, N. Y.
Application January 14, 1933. Serial No. 651,758
3 Claims. (Cl. 132—38)



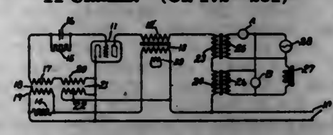
1. A device of the character described comprising a support embodying frontal and rear tubular elements, a series of longitudinally disposed hair-engaging members having their ends secured to said frontal and rear elements and arranged in spaced relation and a tying element positioned within said frontal and rear elements in a manner whereby said elements are movable to permit the placement of said members in the waves formed in the hair.

1,925,010
MOLDING MACHINE
Albert William Sizer, Hessle, England
Application September 2, 1931. Serial No. 560,846
1 Claim. (Cl. 146—186)



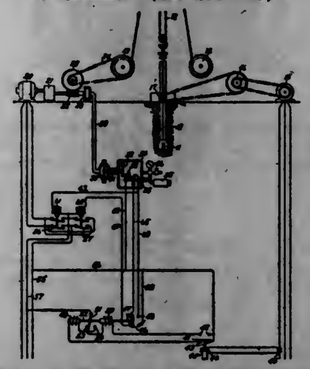
An extrusion press for molding cattle cake, pellets or the like, comprising a cylindrical body having a hopper opening a perforated die plate closing its end, a rotary stripper moving over the exterior of said die plate and an extrusion worm comprising a number of sections keyed to a common driving shaft, each section comprising substantially a single whole thread convolution, each thread convolution being displaced 270° in phase to the next.

1,925,011
LOW FREQUENCY OSCILLATOR
Chauncey G. Suits, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 17, 1930
Serial No. 482,535
11 Claims. (Cl. 172—281)



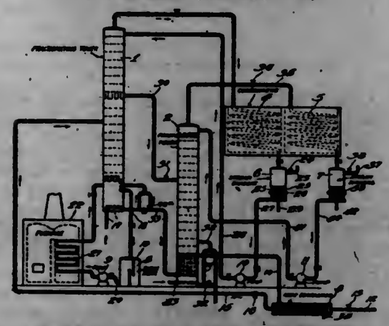
7. Apparatus for converting alternating current into relatively lower frequency unidirectional current impulses, comprising a source of alternating current, a vapor electric valve provided with an anode, a cathode and a control grid, a saturating reactor provided with a saturating winding connected across said source through said valve and a main winding also energized from said source, a grid circuit for said valve, a transformer having one winding included in said grid circuit and another winding connected across said source, and a source of potential dependent upon the current flowing in said main reactor winding, and a load circuit connected with the anode circuit of said valve.

1,925,012
WELL DRILLING SYSTEM
William G. Taylor, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 16, 1932. Serial No. 629,005
3 Claims. (Cl. 255—19)



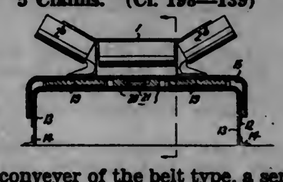
1. The combination in well drilling apparatus, of a drill, hoisting means for raising and lowering the drill, an electric motor, a driving connection including a worm and a worm gear between said motor and said hoisting means said worm being mounted for axial movement in response to the suspended weight of the drill, control means for said motor, means responsive to movement of said worm for operating said control means to cause the motor to lower the drill when the pressure of the drill on the earth's formation becomes less than a predetermined value, a second electric motor connected to rotate said drill and means responsive to the current supplied to said second motor for operating said control means to raise said drill in the event that the load on said second motor exceeds a predetermined value.

1,925,013
PROCESS FOR DISTILLING PETROLEUM HYDROCARBONS
Claude F. Tears, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of South Dakota
Application June 25, 1923, Serial No. 647,419
Renewed January 12, 1929
7 Claims. (Cl. 196—72)



4. A process for the fractional distillation of hydrocarbon oils which comprises passing a stream of charging oil through a heating zone maintained at a vaporization temperature, passing the stream of heated oil from said zone into a combined evaporating and fractionating zone, removing unvaporized oil from said combined zone and passing the same in heat exchange relation with said charging oil being supplied to said heating zone, removing gasoline vapors from the upper portion of said combined zone and subjecting the same to condensation and collection as a final product of the process, removing a fraction heavier than gasoline from said combined zone at a point below the upper portion thereof but above the point at which said stream of heated oil is introduced, introducing said fraction heavier than gasoline into a second fractionating zone, supplying heat to the lower portion of said second fractionating zone to effect reboiling of said fraction heavier than gasoline, removing liquid oil from the lower portion of said second fractionating zone as a final product of the process, and removing vapors from the upper portion of said second fractionating zone and collecting and condensing the same independently of said gasoline vapors.

1,925,014
CONVEYER OF THE BELT TYPE
James Thomson, Mile End, Glasgow, Scotland, assignor to Mavor & Coulson Limited, Glasgow, Scotland
Application August 20, 1932, Serial No. 629,731, and in Great Britain October 9, 1931
5 Claims. (Cl. 198—139)



1. In a conveyer of the belt type, a series of inverted trough sections carrying a series of rollers supporting the upper run of the belt thereabove and shielding the lower run of the belt trained thereunder; said sections being connected in telescopical relation for slide movement one upon another and having means including part of the support roller mountings thereon for limiting such movement therebetween in opposite directions.

1,925,015
FORMATION PACKER
Walter T. Wells, Glendale, Calif.
Application June 24, 1932. Serial No. 619,097
8 Claims. (Cl. 166—10)



1. A formation packer comprising a sleeve member provided at one end with means for en-

gagement with a tubing string and with ports extending through its annular wall, a packing element, of the sleeve type, secured at one end to said sleeve member, a tubular support member extending through said packing member and into said first mentioned sleeve in a manner providing an annular passage between said tube and said sleeves and communicating with said ports, a foot member secured to said tube, a valve sleeve slidable on said tube and connecting with said packing member and provided with surfaces complementary to those of said foot member, whereby said members will co-act to open and close said passage when said valve sleeve is reciprocated.

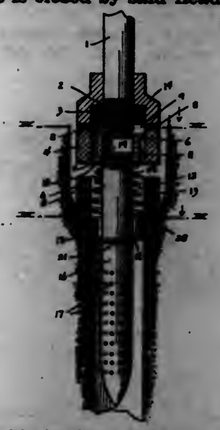
1,925,016
PACKER FOR OIL WELLS
Walter T. Wells, Glendale, Calif.
Application June 1, 1932. Serial No. 614,731
11 Claims. (Cl. 166—12)



1. In a packer wherein a plurality of packing elements, provided with a by-pass therethrough, are adapted to be deformed by compression between two members provided with a limited degree of relative movement, restraining means adapted to hold said packing elements together and to one of said movable members in a manner adapted to keep said by-pass open to passage of fluid therethrough when said packing elements are not under compression, said restraining means being yieldable, however, to compressive force applied by said movable members.

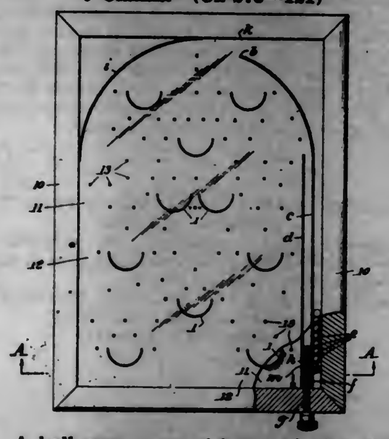
1,925,017
RAT-HOLE PACKER
Walter T. Wells, Glendale, Calif.
Application September 23, 1932
Serial No. 634,599
2 Claims. (Cl. 166—10)

1. A device of the character disclosed, comprising a pair of sections of tubing joined in an end-to-end relation in a manner providing a limited degree of relative movement, a packing element, slidable on the lower of said sections, adapted, when deformed, to seal the space between said section and an adjacent wall, said element having a by-pass channel therethrough, connecting the zones above and below said packing, outside of and independent of said tubing, a head member secured to said lower section and slidable with respect to the upper of said sections, having ports therethrough adapted to register with the by-pass channel thru said packing element, means, responsive to weight of the upper tubing section, for actuating said head member to deform said packing element and close said by-pass, means, responsive to movement of said upper section for selectively opening and closing said ports while said by-pass is closed by said head member, and



means, yieldable to the weight of said upper tubing section, holding said head member and said packing element apart, and said by-pass open, while the device is being raised or lowered.

1,925,018
GAME BOARD
Sidney Weiss, St. Louis, Mo.
Application September 6, 1932. Serial No. 631,929
6 Claims. (Cl. 272—121)



1. A ball game comprising a playing surface bounded by side walls, a ball projecting guide adjacent but spaced from one boundary wall of the surface, a ball projecting plunger mounted in one end of the guide, said guide having a curved wall terminating short of the end of the surface opposite the plunger, said curved wall and the adjacent boundary wall of the surface forming a passage for the return of played balls to a magazine adjacent the plunger.

1,925,019
SURFACE TREATING DEVICE
William Wilson, New York, N. Y.
Application April 19, 1932. Serial No. 606,167
2 Claims. (Cl. 15—188)

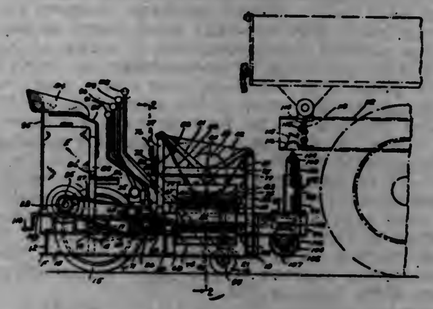
1. A surface treating device including a base having a plurality of flexible projections pro-

truding from one face thereof and a continuous flexible marginal rim protruding outwardly from said face, surrounding said projections and defining together with the base a receiving and re-



taining compartment, said rim being of such a length and flexibility as to permit of the turning of the same rearwardly to overlie the margin of the base.

1,925,020
SAND SPREADER
Lewis M. Young, Norwich, Conn.
Application April 22, 1932. Serial No. 606,785
9 Claims. (Cl. 275—8)

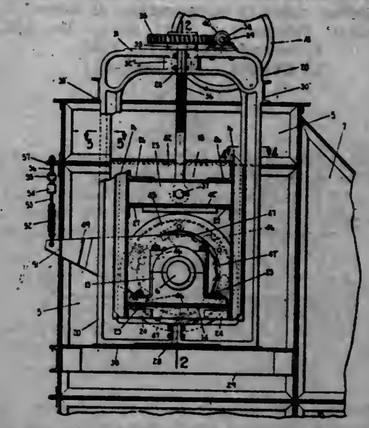


1. A sand spreader consisting of a self-propelled vehicle adapted to be attached to a truck, said vehicle carrying a rotary conveyor for receiving sand from the truck and feeding it to a point of discharge, a rotary member for receiving sand from said conveyor and spreading it over the roadbed, and an engine mounted on said vehicle and controllably connected with said conveyor, said spreading wheel, and the traction wheels of the vehicle.

4. A sand spreader comprising the combination of a conveyor adapted to receive sand from a truck, a horizontal rotary wheel mounted to receive sand from said conveyor and to throw the sand over the roadbed, a rotary driving shaft, a vertical friction wheel slidably keyed on said shaft and engaging the underside of said sand wheel, spring means for constantly holding said two wheels in pressure contact, and manually operable means for slidably adjusting said friction wheel to control the speed of said sand wheel.

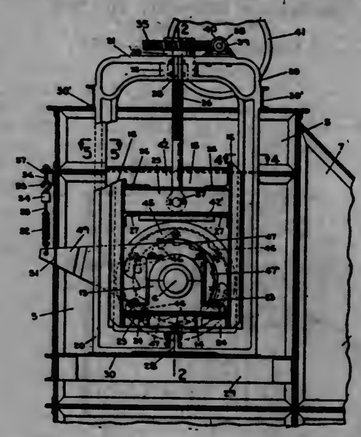
1,925,021
COMBINED TAKE-UP AND SAFETY LOCK
Earle V. Francis and Alexis W. Lemmon, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company, Columbus, Ohio, a corporation of Ohio
Application February 14, 1930. Serial No. 428,379
6 Claims. (Cl. 198—227)

1. The combination with an elevator mechanism including a support having a slot, a head shaft, a back stop device for preventing reverse rotation of said shaft and including an abutment arm extending through said slot and adapted for engagement with one end thereof to limit movement of said arm, and resilient means normally



retaining said arm spaced from the end of said slot.

1,925,022
COMBINED TAKE-UP AND SAFETY LOCK
Earle V. Francis and Alexis W. Lemmon, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company, Columbus, Ohio, a corporation of Ohio
Original application February 14, 1930, Serial No. 428,379. Divided and this application September 18, 1931. Serial No. 563,654
14 Claims. (Cl. 198—208)

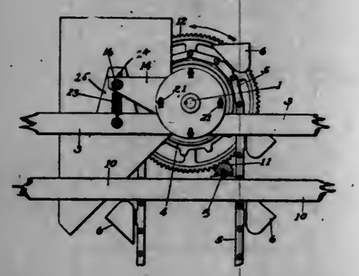


1. The combination with an elevator mechanism including a frame, a sectional guide frame mounted thereon and having parallel guide rails, a bearing formed between meeting sections of the guide frame, a bearing frame slidably associated with said guide rails, a conveyor shaft mounted in the bearings of said bearing frame, a nut mounted in the bearing of said guide frame, and a screw shaft connected to said bearing frame and extended through said nut.

1,925,023
SAFETY LOCK

Stanley M. Mercier, Grandview, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a corporation of Ohio

Application February 1, 1927, Serial No. 165,226
Renewed March 15, 1932
18 Claims. (Cl. 188—82)

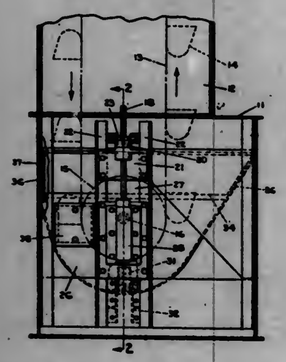


14. Means to arrest reverse rotation of a horizontally disposed shaft comprising an abutment member, a centrifugally controlled catch member in connection with said shaft and adapted to engage said abutment member to arrest said shaft upon a reverse tendency of the latter, a slotted member, an arm secured to said abutment member, and having means operating in said slotted member, and spring means for retaining said arm in predetermined relation to said slotted member.

1,925,024
BUCKET ELEVATOR

Elmer C. Slater, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a corporation of Ohio

Application December 10, 1931
Serial No. 580,202
7 Claims. (Cl. 198—207)

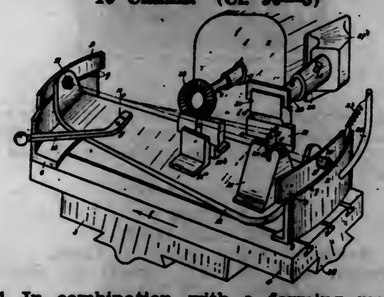


1. In elevating apparatus, a boot having vertically extending slots in opposite side walls thereof, outwardly projecting boxes secured to said boot in closing relation to said slots, shaft journals guided in said boxes for vertical adjustment, a conveyor foot shaft journaled in said journals, a hopper connected to said journals for adjustment therewith and means to vertically adjust and support said shaft and hopper with respect to the boot.

1,925,025
PROCESS AND APPARATUS FOR ACCURATELY CUTTING AND RECTIFYING GEARS

Paul Emile Amann, Nanterre, France

Application May 25, 1932, Serial No. 613,539, and in France June 6, 1931
10 Claims. (Cl. 90—5)

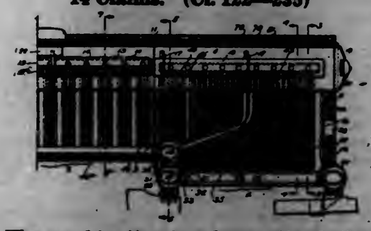


1. In combination with a forming machine having a head, a forming tool rigidly carried by said head and a slidable carriage, a device for giving gears, and especially bevel gears an accurate profile, which comprises in combination, a rigid frame carried by said carriage, two curved rails adapted to rotate in said frame about a common center located in the some plane as the active portion of the forming tool, a support journalled in said rails about an axis passing through said center, means for fixing the piece of work to said support, a profiling piece rigidly fixed in said support substantially at right angles to said axis, and a contact plate rigidly supported by the head of the forming machine in such manner as to be in the same conical surface having its apex at said center as the active part of the forming tool.

1,925,026
WATER TUBE LOCOMOTIVE BOILER

William A. Austin, Wynnewood, Pa.

Application December 10, 1931
Serial No. 580,161
14 Claims. (Cl. 122—235)



1. The combination in a locomotive boiler, of a casing enclosing a fire-box and the barrel of the boiler, and having at its forward end a smoke-box; a longitudinal upper drum extending throughout the length of the fire-box and barrel; a series of longitudinal manifolds at each side of the upper drum; a lower transverse drum at the rear of the fire-box and a pair of transverse drums at the forward end of the fire-box, one drum being mounted upon the other drum and communicating one with the other; longitudinal lower manifolds at each side of the fire-box; tubes at each side of the fire-box connecting the manifolds of the lower header with those of the upper header; transverse drums in the barrel of the boiler; longitudinal lower manifolds connecting the lower transverse drums and manifolds connecting the rear transverse drum of the barrel of the boiler with the upper transverse drum at the forward end of the fire-box; and a series of tubes connecting the lower manifolds with the upper manifolds.

1,925,027
RECOVERY OF SULPHUR FROM GAS PURIFYING MATERIALS

Hermann Bollmann and Wilhelm Engelmann, Hamburg, Germany

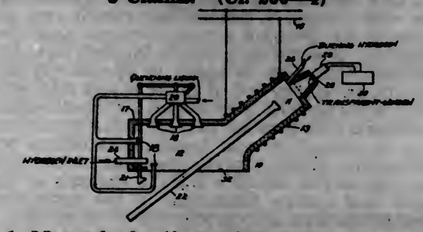
No Drawing. Application December 14, 1931, Serial No. 581,052, and in Germany March 4, 1931
5 Claims. (Cl. 23—227)

1. A process for the recovery of sulphur from gas purifying materials with simultaneous regeneration of the latter, which process comprises subjecting the gas purifying material to a distillation with expanded superheated steam in vacuo.

1,925,028
HEAT TREATING APPARATUS

Ferdinand Brieger, Berlin-Johannisthal, Germany, assignor to General Electric Company, a corporation of New York

Application July 28, 1932, Serial No. 625,258, and in Germany August 3, 1931
3 Claims. (Cl. 266—4)



1. Means for heating and quenching charges of work in a protective atmosphere comprising walls arranged to form closed heating and cooling chambers, said cooling chamber being provided with an opening in the lower position through which work may be introduced to either of said chambers, said heating chamber being arranged above said cooling chamber, heating means for said heating chamber, quenching means within said cooling chamber and means operable by the engagement of the work therewith for operating said quenching means to quench said works.

1,925,029
HEAT TREATMENT OF STEEL RAILS

John Brunner, Chicago, Ill.

No Drawing. Application March 25, 1933
Serial No. 662,839
4 Claims. (Cl. 148—12)

1. The method of treating steel rails which consists in rolling the rails to finished sections, cooling the rails from their rolling temperature to a point only slightly below the thermal critical range, reheating the rails to a point slightly above the thermal critical range and cooling the rails to atmospheric temperature.

1,925,030
HOLLOW ARTICLE

James P. Burke, Wayne, N. J., assignor to Mack Molding Co., Wayne, N. J., a corporation of New Jersey

Application March 6, 1931. Serial No. 520,665
3 Claims. (Cl. 16—121)

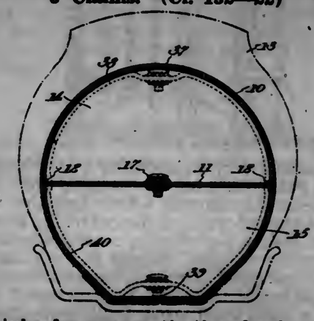
1. A hollow article comprising a cup-shaped section having an inwardly extending projection thereon, said section having an opening therethrough extending axially of said projection, said opening having a shoulder intermediate its length and being of polygonal shape for a portion of its length, a polygonal nut fitting said polygonal portion of said opening and engaging said shoulder, a second cup-shaped section secured to said first section at their meeting edges, a projection on said second section securing said nut in position and interlocking means on said sections preventing relative rotation thereof.



1,925,031
TUBE FOR PNEUMATIC TIRES

Robert Stanley Chitester, Brookville, Pa.

Application April 18, 1933. Serial No. 666,755
3 Claims. (Cl. 152—22)

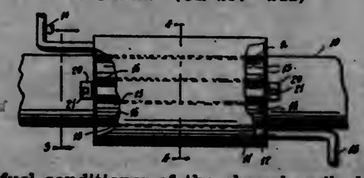


1. A tube for pneumatic tires having a transverse web therein dividing the tube into two air chambers, and a valve in said web open to connect said chambers during initial inflating and adapted to close upon deflation of either chamber, said web being flexible to permit expansion of one of said chambers to substantially the capacity of the tube when the other chamber becomes deflated, and said valve adapted to be held closed upon deflation of either of said chambers and consequent expansion of the web by engagement of the valve with the tube wall of the deflated chamber.

1,925,032
FUEL HEATER

Edwin M. Dunner, Polk, Ohio

Application December 15, 1932
Serial No. 647,483
1 Claim. (Cl. 257—241)



A fuel conditioner of the class described comprising a casing adapted to surround an exhaust pipe, the casing having inlet and outlet means for the fuel, a clamp on the casing intermediate ends to secure the casing about an exhaust pipe, and means acting counter to the clamp to abut the exhaust pipe, said clamp and last mentioned means coacting to adjustably secure the casing to

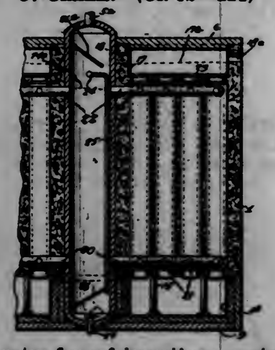
the exhaust pipe according to the degree of heating desired for the fuel, the second mentioned means comprising a bracket on each end of the casing, screw members threaded in the brackets and adapted to abut the exhaust pipe.

1,925,033

METHOD AND APPARATUS FOR RAPID FREEZING AND HANDLING OF COMESTIBLES

William J. Finnegan, Atlanta, Ga.

Application April 3, 1931. Serial No. 527,587
37 Claims. (Cl. 62—114)



1. Apparatus for refrigerating a cartridge comprising a guide tube for the reception of the cartridge, means for flowing a heat transfer vehicle over the adjacent walls of the cartridge and guide tube, and means for flowing a refrigerating medium over the external surface of the guide tube.

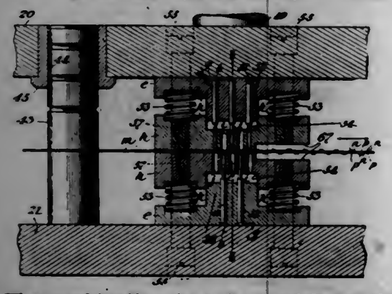
13. The method of freezing comestibles and the like consisting of flowing a heat transfer vehicle through a restricted area with containers for comestibles within the restricted area, and completely enveloped by the heat transfer vehicle, and simultaneously flowing a refrigerant medium in close relation to the heat transfer vehicle.

1,925,034

PRICK PUNCHING MACHINE

Martin D. Fitzgerald, Torrington, Conn., assignor to The Fitzgerald Mfg. Company, Torrington, Conn., a corporation of Connecticut

Application July 20, 1932. Serial No. 623,637
6 Claims. (Cl. 164—37)



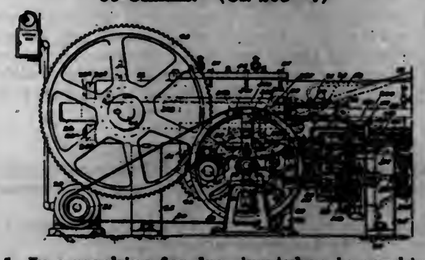
1. The combination, in a sheet prick-punching machine, of opposed tool-heads, each having a plurality of punching elements thereon, a yieldable die-plate for each tool-head and having die-openings therein to cooperate with the punches of the opposing tool-head, actuating means having operative connection with at least one of said tool-heads to intermittently bring said tool-heads on opposite sides of the material to be punched, said punching elements and die-openings being such as to form perforations in said material with lateral projections at the edges of said perforations, and intermittent means for moving the sheet of material between said tool-heads when the latter are out of punching position.

1,925,035

TUBE DRAWING MACHINE

Jean V. Giesler, Knoxville, Tenn., assignor to The Fulton Sylphon Company, Knoxville, Tenn., a corporation of Delaware

Application July 1, 1929. Serial No. 375,161
66 Claims. (Cl. 205—7)



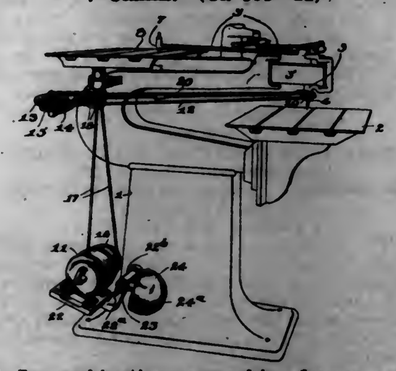
1. In a machine for drawing tubes, in combination with relatively reciprocable punch and die elements for pushing a tube through said die, means for pushing said punch through said die, drawing mechanism adapted to operatively engage the advancing end of the tube and intermittently movable with said punch in one direction to pull said tube through said die at the same time as it is pushed by said punch, and means for moving said drawing mechanism comprising rack bars disposed at opposite sides of the axis of the punch and having their axes in the horizontal plane of the axis of said punch.

1,925,036

ENGRAVING MACHINE AND THE LIKE

George Gorton, Racine, Wis.

Application January 31, 1930. Serial No. 425,047
7 Claims. (Cl. 308—11)



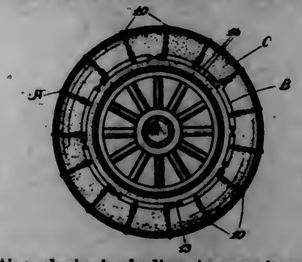
1. In combination; a machine frame; a supporting axis projecting horizontally therefrom; a motor platform projecting laterally from said axis and mounted thereon to swing therefrom in a vertical arcuate path; said platform provided with a longitudinally screw threaded member rigid therewith and projecting laterally with respect to said axis; a rotary counterweight forming a screw threaded nut on and meshing with said member and adjustable longitudinally thereof by rotation; a motor mounted on and carried by said platform and provided with and driving a rotary shaft parallel with said axis and having a concentric belt driving pulley; and a belt drive including an endless friction belt driven by said pulley and fitting thereunder to limit the downward gravity drop of said platform and its load; said weight approximately counterbalancing said platform and its load to control the downward pull of said pulley on said belt.

1,925,037

TIRE CHAIN

Anton M. Hanson, St. Paul, Minn., assignor of one-fourth to Katherine I. Connolly

Application February 24, 1928. Serial No. 256,597
2 Claims. (Cl. 152—14)



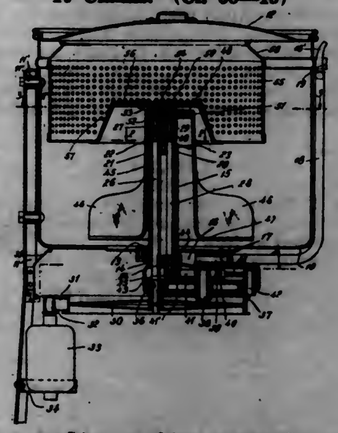
1. A tire chain including two series of narrow arcuate flat bars, loop links for loosely linking said bars to one another, a series of cross chains connecting one of said series of bars to the other series and manually disconnectable means in each series of bars.

1,925,038

COMBINATION WASHING AND DRYING MACHINE

Charles E. Reddig, Kew Gardens, N. Y., assignor to Graybar Electric Company, Inc., New York, N. Y., a corporation of New York

Application November 21, 1929
Serial No. 408,902
10 Claims. (Cl. 68—15)



1. In a washing machine, means for washing clothes, a centrifuge mounted directly above said washing means, a common wash water tank for said washing means and said centrifuge, both the washing means and the centrifuge being within the confines of said tank, and a common driving means for said washing means and said centrifuge, said centrifuge being mounted eccentrically in said tank whereby a space is left between the centrifuge and one side of the tank for access to the wash water.

1,925,039

TELEVISION APPARATUS

Aloysius J. Cawley, Pittston, Pa.

Application July 22, 1929. Serial No. 380,262
18 Claims. (Cl. 178—6)



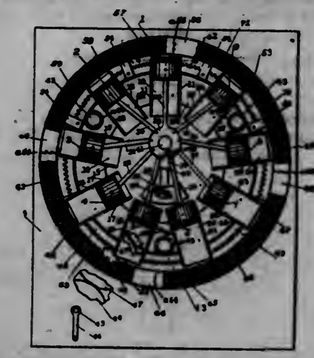
10. The process of television consisting of forming a visual image, intermittently converting the light of said image into corresponding image-varied electric current at successive, consecutive points on a series of concentric circles throughout said image area.

1,925,040

RADIAL GAS ENGINE DEMONSTRATOR

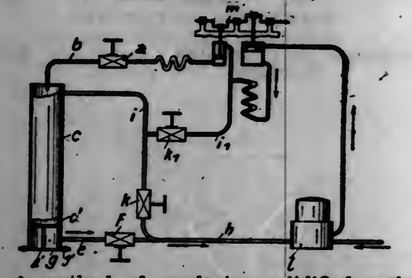
Raymond C. Lindberg, Bellingham, Wash.

Application May 10, 1932. Serial No. 610,518
1 Claim. (Cl. 35—16)



A radial internal combustion engine demonstrator including, a plurality of radial guides, slides mounted for reciprocation in the said guides, an assembly of a crank shaft and connecting rods to reciprocate the said slides synchronously with the pistons of the engine being demonstrated, a ring mounted for revolution concentric with the said crank shaft revoluble thereby synchronously with the cam ring of the engine being demonstrated, disposed adjacent the outer ends of the said guides having thereon a single band of similar groups of different colored segments, each color segment thereof indicating a particular engine operation impelled by a particular cam surface of the said cam ring of the engine being demonstrated, a demonstrator frame for supporting the said guides and for mounting the said crank shaft and color ring for revolution, and means for revolving the said crank shaft and color ring in opposite directions at the same relative speeds as the relative speeds of the crank shaft and cam ring of the engine being demonstrated.

1,925,041
METHOD OF PRODUCING CARBON DIOXIDE IN SOLID FORM
Ernst Berthold Auerbach, Berlin, Germany
Application September 16, 1929, Serial No. 393,094, and in Germany April 27, 1929
6 Claims. (Cl. 62—121)



1. A method of producing solidified carbon dioxide which consists in causing an integral mass of solidified carbon dioxide to contact with a body of liquid carbon dioxide which is maintained under a pressure which is substantially above the triple point pressure, while permitting the liquid carbon dioxide to evaporate at a part of the wall of said mass of solidified carbon dioxide so as to reduce said pressure only at said part and to lower the temperature of the mass, so that the size of the mass is increased along that portion of its wall which is subjected to said pressure by the solidification of the liquid carbon dioxide in contact with said mass under said pressure, said pressure being sufficient to cause the liquid carbon dioxide to freeze in a single stage from the liquid state to the dense solid state.

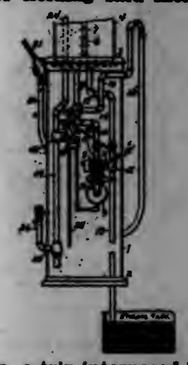
1,925,042
SPOOL
George H. Bird, Brooklyn, N. Y.
Application March 2, 1932. Serial No. 596,180
4 Claims. (Cl. 242—123)



2. A fastening device for securing end flanges on a tubular core of penetrable material, comprising a concavo-convex metal disc having a circular row of prongs projecting from the concave side thereof and spaced from the center of the disc a distance slightly less than the radius of the interior of said tubular core, so that by placing said disc against the end of said core with said prongs extending into the core and pressing the central portion of said disc inwardly of said core, said prongs will be swung toward the periphery of the disc and will penetrate the interior walls of said core.

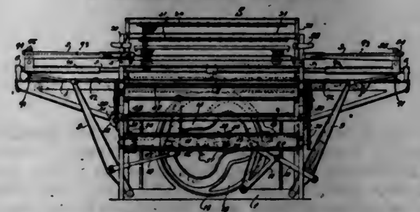
1,925,043
LIQUID DISPENSING APPARATUS
George U. Brake, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind., a corporation of Indiana
Application January 20, 1933. Serial No. 652,673
9 Claims. (Cl. 221—100)

1. In a liquid dispenser, a pedestal, a transparent measure on said pedestal provided with liquid level indicating means, an overflow pipe for said measure, a pump, a supply pipe connecting the discharge port of the pump with said measure, a dispensing pipe terminating in a flexible hose provided with a manually operated valve-controlled nozzle, a two-way valve connected in the supply pipe and with said dispensing pipe, a suction pipe one end of which is connected with said measure at the bottom thereof, its opposite end being adapted for connection with a source of liquid supply, a second two-way valve connected in the suction pipe and with the intake port of said pump, an electric motor operatively associated with said pump, a spring-restrained switch connected in the motor circuit, an actuating means for said switch, a catch automatically engageable with said means for holding said means in switch-



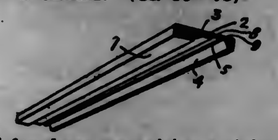
closing position, a trip interposed in the overflow pipe line operatively connected with said latch to cause release of said switch closing member upon overflow from said measure, manually operated control mechanism including a handle therefor and provided with members for closing said switch when said handle is turned to either of its extreme positions, and connections between said mechanism and said two-way valves so arranged that when said handle is moved to one of its extreme positions said two-way valves are adjusted so that upon operation of the pump said measure is filled with liquid from the source of supply by the pump, and when said handle is moved to its opposite extreme position and the pump is operated liquid is drawn from said measure by the pump and expelled through the dispensing pipe upon opening of the nozzle.

1,925,044
LOOM
Arthur J. Briggs, Syracuse, N. Y., assignor to Briggs Loom Corporation, Syracuse, N. Y., a corporation of New York
Application September 16, 1930
Serial No. 482,205
9 Claims. (Cl. 139—141)



1. A loom of the type characterized by having shed-forming means and a plurality of carriers adapted respectively to be moved through the shed, carrying the shuttle and acting to transfer said shuttle to each other alternately at an intermediate portion of its path, said loom being further characterized by means to actuate said carriers in such manner that the transit of the shuttle is effected continuously and each transfer of the shuttle is effected positively from carrier to carrier without change of the velocity of the shuttle.

1,925,045
WELT FOR SHOES
William Brown, Quakertown, Pa., assignor to McAdoo & Allen Welting Company, Quakertown, Pa., a partnership consisting of Henry M. McAdoo, William McAdoo, Jr., and George H. Allen
Application July 9, 1932. Serial No. 621,558
2 Claims. (Cl. 36—78)



1. A welt for shoes comprising a strip of leather generally rectangular in cross section and having on its flesh side a groove of which the side walls are perpendicular to the hair side, the bottom of the groove being provided with a portion of greater depth than the rest of the bottom, said strip being folded about said deeper portion toward the flesh side and the walls of the groove being crowded together providing an upstanding marginal rib on the hair side.

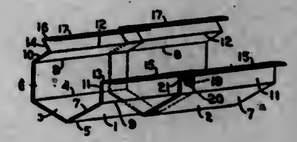
1,925,046
GROOVED PULLEY
Frank T. Everson, Manoa, Pa., assignor to The American Pulley Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 19, 1930
Serial No. 496,765
3 Claims. (Cl. 64—17)



1. A grooved pulley formed by the juxtaposition of correspondingly-shaped disks each having an inner tubular flange for forced engagement upon a hub, a shoulder around said hub for abutment by the side of one disk adjoining the tubular flange of the latter, another disk tubular flange having its free edge wholly and inwardly-sprung, and an angular groove around the hub in position for engagement by the inwardly-sprung free edge of the last mentioned tubular flange whereby the disks are securely locked against axial displacement.

1,925,047
UNITARY SPRING COVER
Warren T. Ferguson, Waban, and Charles B. Eisenhauer, Cambridge, Mass., assignors to Ajax Spring Stabilizer Company, Cambridge, Mass., a corporation of Illinois
Application April 10, 1931. Serial No. 529,058
5 Claims. (Cl. 267—37)

1. A spring cover comprising a plurality of tapering units fabricated from sheet metal to conform to and closely to embrace corresponding sections of a spring, with the smaller end of each unit telescopically engaging the larger end of an adjacent unit, each of said units having longitudinally extending complementary edge flanges adapted to be interengaged and folded down to

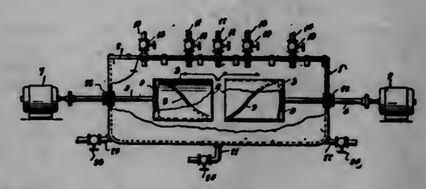


provide a lock seam, locking means flexibly connecting the telescoping portions of adjacent units together comprising tabs punched inwardly from the metal of the telescoping portions of adjacent sections and bent against the inner face of the inner unit.

1,925,048
FUEL COMPOSITION AND METHOD OF PRODUCING THE SAME
Earl C. Hennen, Columbus, Ohio
No Drawing. Application February 23, 1932
Serial No. 594,745
15 Claims. (Cl. 44—9)

1. A fuel treating composition comprising benzol, trinitrotoluene, orthonitrochlorobenzene, a high heat resisting lubricating oil, alphanapthylamine, acetone, and an acetate.

1,925,049
APPARATUS FOR FORMING EMULSIONS
William R. Howard, Washington, D. C.
Application December 20, 1928, Serial No. 327,447
Renewed January 21, 1932
4 Claims. (Cl. 259—105)

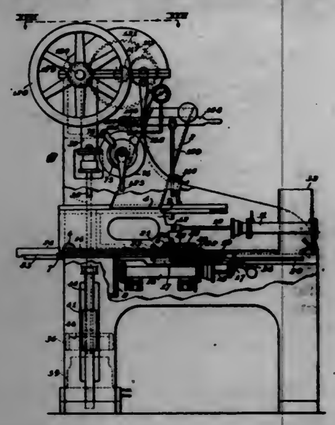


1. An emulsifying apparatus comprising a container, rotatable cylinders mounted wholly within the same, means for rotating said cylinders, means for causing a flow of the material in the container through said cylinders, means for admitting materials to be emulsified to said container and means for withdrawing the finished product.

1,925,050
MOLDING MACHINE AND METHOD OF OPERATING THE SAME
Karl Erik Wilhelm Jagdmann and Oscar Henry Bonter, Cambridge Springs, Pa., assignors to The Blystone Manufacturing Company, Cambridge Springs, Pa., a corporation of Pennsylvania
Application June 19, 1928. Serial No. 286,610
21 Claims. (Cl. 25—84)

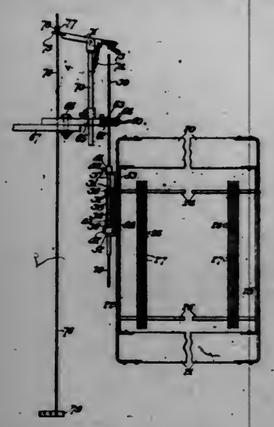
12. In a molding machine, a mold, pallet-placing means cooperating therewith, a core

movable relatively to the mold and a pallet disposed therein, means for supplying material to the mold with the pallet in place, and means for creating relative movement between the mold



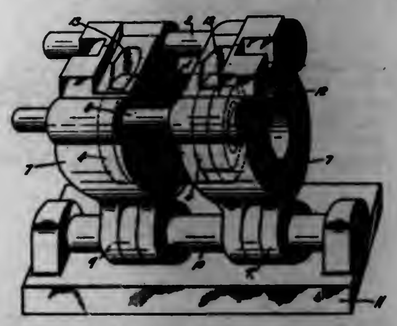
and core whereby the core is moved relatively to the mold while the mold is being supplied with material for evenly distributing the material throughout the mold.

1,925,051
WARP STOP MOTION
Louis Kasper, Philadelphia, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 30, 1932. Serial No. 601,903
17 Claims. (Cl. 139—364)



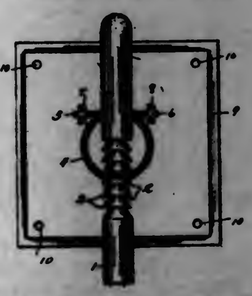
1. In a warp stop motion for looms, a harness frame; shed forming heddles mounted therein; detector mechanism in the frame controlled by said heddles; an actuator rod mounted at the end of the frame adapted to operate the detector mechanism; fixedly located means for imparting a frictional drag to said actuator rod; means controlled by the detector mechanism for connecting the rod to the harness frame, thereby to impart movement to the rod in addition to its normal movement; and means controlled by said rod for stopping the loom.

1,925,052
METHOD AND MEANS FOR PRODUCING MOTOR ARMATURES
Everett P. Larsh, near Dayton, Ohio, assignor to The Master Electric Company, Dayton, Ohio, a corporation of Ohio
Application November 21, 1929
Serial No. 408,244
16 Claims. (Cl. 29—155.53)



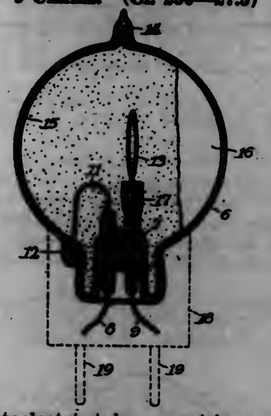
1. The herein described method of producing squirrel-cage rotors for electric motors, including providing an assembly of perforated laminæ arranged with their perforations disposed to afford continuous passages through the assembly, the perforations of the greater number of such laminæ being spaced from the peripheries thereof, the perforations of a lesser number of laminæ interposed between other laminæ intersecting the peripheries thereof, inserting said assembly in a mold, positioning sand cores at the ends of the assembly, casting metallic end rings about the sand cores, and integral bars connecting the end rings through the passages and subsequently reducing the periphery of the assembly until the peripheries of all the laminations intersect the perforations thereof and expose the case bars therein.

1,925,053
IMPLEMENT HANDLE
Cesar A. Marquez Massino, Habana, Cuba, assignor of fifty per cent to Antonio M. Acosta and Tomas J. Acosta, both of Habana, Cuba
Application September 1, 1931, Serial No. 560,606, and in Cuba September 5, 1930
1 Claim. (Cl. 15—143)



An implement handle having a plurality of successive circumferentially extending indentations, the face of each indentation extending inward and toward the end of the handle remote from the implement and then extending outward in a plane at right angles to the longitudinal axis of the handle as and for the purpose stated.

1,925,054
PHOTOELECTRIC TUBE
Archie J. McMaster, Chicago, Ill., assignor to G-M Laboratories, Inc., Chicago, Ill.
Application August 17, 1929. Serial No. 386,525
9 Claims. (Cl. 250—27.5)



9. A photoelectric tube comprising a glass bulb, a photoelectric cathode comprising a film of light sensitive material attached to the inside surface of the glass bulb, an anode, a pair of conductors sealed through the glass bulb, one of said conductors secured to the anode, and a relatively thickened portion integral with and forming a continuation of the light sensitive film, the second of said conductors having its end imbedded in said thickened portion to provide a low resistance connection between said conductor and the light sensitive cathode film.

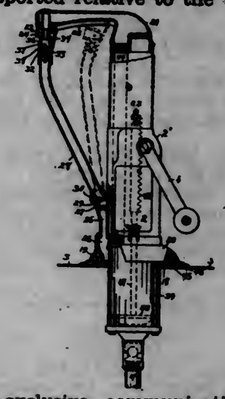
1,925,055
CHAIN
George G. Mize, Indianapolis, Ind., assignor to Diamond Chain and Manufacturing Company, Indianapolis, Ind., a corporation of Indiana
Application October 3, 1931. Serial No. 566,673
16 Claims. (Cl. 74—32)



1. A chain, comprising a series of alternately arranged pin-links and bushing-links, each bushing-link being formed of a pair of spaced side-bars provided with spaced holes and bushings received within said holes, said pin-links having transversely extending members received in the bushings of adjacent bushing-links, and rollers on said bushings, each of said bushings being provided intermediate its length with a strain-relieving opening extending through the bushing-wall but being circumferentially continuous in the planes of the side-bars having a press-fit therein.

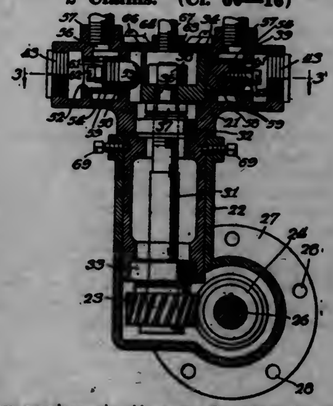
1,925,056
EQUIPMENT FOR DISPENSING LUBRICATING OIL AND OTHER LIQUIDS
Byron J. Pepper, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind., a corporation of Indiana
Application January 23, 1932. Serial No. 653,028
8 Claims. (Cl. 221—72)

1. In a liquid dispensing equipment, a storage tank for liquid having a fill opening and a lid for said opening provided with locking means therefor to prevent unauthorized filling of the tank through said opening, a pump mounted upon said tank, having a suction pipe extending into said tank, for dispensing stored liquid therefrom, means securing said pump on said tank that are inaccessible from the exterior with respect thereto, a movable drip tube communicating with said tank and provided with a funnel movably supported relative to the tube adapted



to establish exclusive communication between the pump nozzle and the tube when said tube is in operating position, and disposed so that communication between said funnel and the tube is shut off when said tube is moved from its operating position, and a guide operatively associated with the tube and funnel to limit movement of the tube and to confine the funnel to its shut-off position when said tube is moved from its drip-receiving position.

1,925,057
STARTING MOTOR FOR INTERNAL COMBUSTION ENGINES
Frederick Price, Maud, Okla., assignor of one-half to George E. McKinnis, Jr., Shawnee, Okla.
Application May 8, 1929. Serial No. 361,369
2 Claims. (Cl. 60—16)



1. An engine starting mechanism for the purpose described including a main frame casting, and an outer shell casting disposed partially around the main frame casting, means on the shell casting for securing the same to an engine block, a shaft disposed in the shell casting and adapted for connection to an engine shaft, a

centrally disposed shaft journaled in the main frame casting, a gear connection between the two shafts for driving said centrally disposed shaft, a fluid distributor mechanism carried by the main frame casting, and means for adjusting and maintaining the relative positions of the shell casting and main frame casting for timing the distributor with reference to the engine.

1,925,058
PROCESS FOR FORMING PLASTIC CLAY MASSES

Davidge H. Rowland and Kurt Wetzel, Baltimore, Md., assignors to Locke Insulator Corporation, Baltimore, Md., a corporation of Maryland

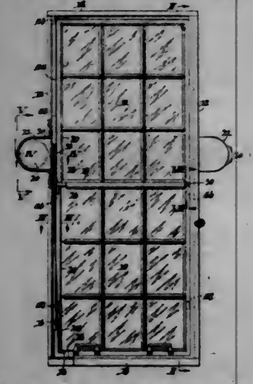
No Drawing. Application November 11, 1929
Serial No. 406,501
3 Claims. (Cl. 25—156)

1. In the manufacture of ceramic ware, the step of deflocculating a clay slip to increase its fluidity, reflocculating the same to restore its plasticity, and plunging the same to effect shaping.

1,925,059
WINDOW

Joseph H. Sheard, Philadelphia, and Benjamin H. Pollock, Jenkintown, Pa., assignors to David Lupton's Sons Company, Philadelphia, Pa., a corporation of Pennsylvania

Application December 20, 1930
Serial No. 503,638
5 Claims. (Cl. 189—72)



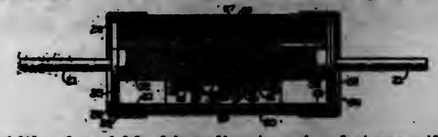
1. A window of the character described, comprising a jamb and vertically sliding sashes, spring balances for said sashes arranged side by side behind said jamb with tape connections therethrough to said sashes, and a common casing structure completely enclosing said spring balances with provision for access thereinto when desirable, said casing being attached to said jamb above and below its area of weakness where the tape connections pass through it, and thus reinforcing this portion of the jamb.

1,925,060
FUSE

Norman M. Stephenson, Los Angeles, Calif.

Application July 28, 1930. Serial No. 471,119
20 Claims. (Cl. 200—131)

1. A fuse comprising, in combination, an insulating shell, terminal members secured at the respective ends thereof for connecting the fuse in circuit, a fusible element secured between said terminal members and having an aperture therein, and an insulating barrier occupying said aperture, said barrier extending substantially the full

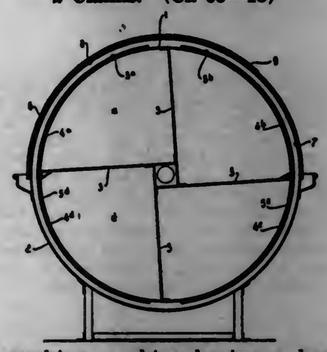


width of and blocking direct arcing between the main portions of said element on opposite sides of said aperture.

1,925,061
WASHING MACHINE

Simon Henri Stoffel, Delft, Netherlands, assignor to N. V. Machinefabriek Reineveld, Haagweg, Delft, Netherlands, a company of the Netherlands

Application July 16, 1931, Serial No. 551,216, and in the Netherlands August 30, 1930
2 Claims. (Cl. 68—18)

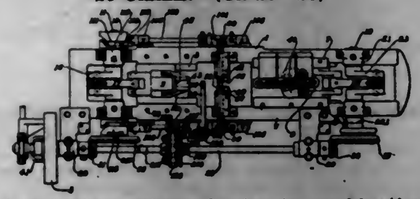


1. A washing machine having a horizontal, perforated drum which is divided into four compartments by approximately radial partitions and is rotatable about a horizontal axis within a closed shell, each compartment being provided with only one opening adjacent a partition and adjacent the opening in the adjoining compartment, said shell being provided with two horizontally opposed charging and discharging openings adapted to simultaneously register with a pair of compartment openings, and each opening being provided with a door.

1,925,062
BOBBIN STRIPPER

Edgar A. Terrell, Charlotte, N. C., assignor to The Terrell Machine Company, Charlotte, N. C., a corporation of North Carolina

Application December 14, 1931
Serial No. 580,809
20 Claims. (Cl. 28—20)



1. A bobbin-stripper having in combination a feed-chute, stripping elements, operating means therefor, a detent arranged to support a bobbin-tip adjacent stripping position, a feed element cooperating with bobbins while their tips are supported by the detent, and operating means for said feed element actuated independently of said stripping-element-operating means.

1,925,063
WAX-LIKE ESTERS AND METHOD OF PREPARING THE SAME

Donald K. Tressler, Pittsburgh, Pa., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia

No Drawing. Application December 4, 1929
Serial No. 411,700
14 Claims. (Cl. 260—106)

1. As a new product the condensation product of a higher fatty acid soap with the chlorhydrin of an unsaturated fatty acid.

1,925,064
LOCK NUT

August Wahlers, San Diego, Calif.

Application April 12, 1932. Serial No. 604,784
2 Claims. (Cl. 151—11)

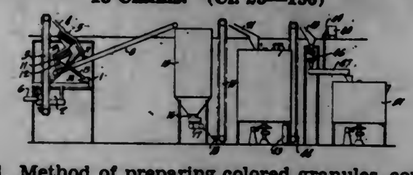


1. A bolt having its threaded shank grooved longitudinally and a nut which is screwed on the bolt, said nut having on its outer face an extension that surrounds the bore of the nut and which is provided with equidistantly spaced angularly disposed openings, said nut having its corners provided with lugs which are apertured and the said apertures being directed toward the respective sides of the nut, a lock pin comprising a comparatively strong spring rust-proof rod which has a pointed end to be inserted through one of the openings in the nut extension and to be received in the groove of the bolt, said lock rod having, adjacent its non-pointed end, angularly arranged finger designed to enter the opening in one of the lugs when the rod is sprung to arrange the finger opposite said opening.

1,925,065
GRANULAR MATERIAL AND METHOD OF MAKING

Ralph L. Atkinson, Dorchester, Mass., assignor, by mesne assignments, to Empire Trust Company, New York, N. Y., a corporation of New York as trustee

Application February 9, 1931. Serial No. 514,373
18 Claims. (Cl. 25—156)

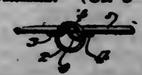


1. Method of preparing colored granules, comprising the steps of reducing a compact, finely porous argillaceous material to granular form, developing the hardness thereof by heating without substantial reduction of porosity, treating the hardened granules with a solution of a mineral coloring agent to produce absorption of the coloring matter therein, and heating the treated granules to fix the coloring agent therein.

1,925,066
SPRING CONNECTING MEANS

Dean S. Barnard, Hinsdale, Ill., assignor to The Rome Company, Inc., a corporation of New York

Application April 13, 1932. Serial No. 604,949
7 Claims. (Cl. 5—269)

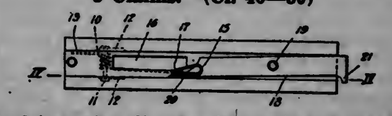


5. The combination with a helical spring and a member extending across one end thereof, of a wire extending partially around said member from the side farthest from the spring; the ends of the wire being spaced apart transversely of the spring and being in the form of eyes lying flat against the under side of said member and projecting therefrom on the side next to the spring, the wire of the adjacent end of the spring being threaded through both eyes.

1,925,067
TOY

George O. Benson, Niagara Falls, N. Y., assignor to Talarico Bros., Niagara Falls, N. Y.

Application June 27, 1931. Serial No. 547,218
3 Claims. (Cl. 46—50)

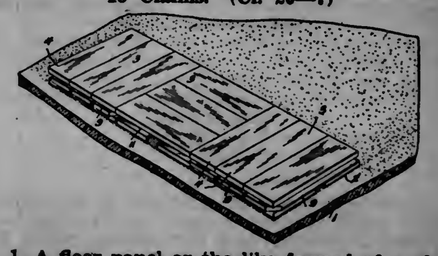


1. A toy catapult comprising a trough-like base member having a coil spring mounted on its underside, one end of said spring being in a fixed position and the opposite end being moveable and projecting through a slot in said base member, a notch adjacent said slot to hold the moveable end of said spring and a pivoted arm positioned to urge the moveable end of the spring from engagement with the notch.

1,925,068
FLOOR

Milton Gray, Memphis, Tenn., assignor to E. L. Bruce Company, Memphis, Tenn., a corporation of Delaware

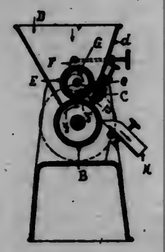
Continuation of application Serial No. 559,991, August 28, 1931, and in Canada July 11, 1932. This application December 16, 1932. Serial No. 647,687
15 Claims. (Cl. 20—7)



1. A floor panel or the like formed of a plurality of pieces, a subfloor, a layer of plastic mastic of substantial thickness spread on the subfloor and in which the pieces are laid, the said layer being of sufficient thickness so that the floor floats thereon and is substantially out of contact with the subfloor, the said mastic being substantially permanently plastic and having such predetermined adhesion as to stick

strongly to the floor and subfloor and such predetermined cohesion as will prevent the floor from sliding out of place relative to the subfloor but will permit movement of the floor due to expansion and contraction.

1,925,069
GRINDING MILL
Willy Köhler, Mannheim-Seckenheim, Germany, assignor to Joseph Voegele Aktiengesellschaft, Mannheim, Germany, a firm
Application August 17, 1931, Serial No. 557,613, and in Germany July 14, 1930
6 Claims. (Cl. 83—22)



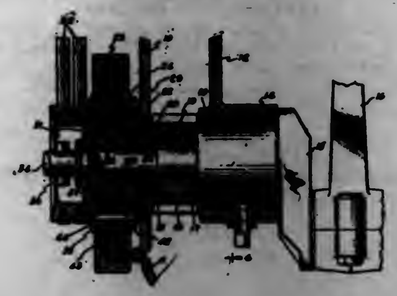
1. A grinding mill including a pair of coacting rolls having their respective axes generally parallel to each other, means for rotating said rolls in opposite directions, respectively, a grinding block coacting with one of said pair of rolls, means coacting with the same roll, beyond the grinding block, for separating from said roll the finally discharged material which has passed said grinding block, hopper means adjacent to and associated with both said rolls for feeding the material in process to the bite of the rolls, and a chamber, bounded at least in part by said rolls and said grinding block and having a constricted outlet adjacent the receding side of the other of said rolls, for causing the latter roll to carry with it and to return to the bite of the rolls, the material which does not pas through, and between the grinding block and said first-mentioned roll.

1,925,070
LAYING WOOD BLOCK FLOORING
William F. Livesey, Philadelphia, Pa., assignor to E. L. Bruce Company, Memphis, Tenn., a corporation of Delaware
Application October 4, 1930. Serial No. 486,457
2 Claims. (Cl. 20—7)



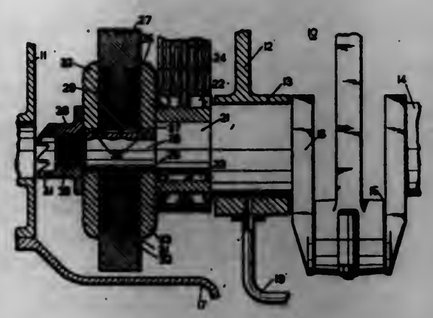
1. The art of making parquetry flooring from blocks made of strips of wood secured together to form a unit, the said blocks being joined to each other by tongue and groove connections to form a floor panel and laid in a non-setting plastic mastic that is spread on a subfloor, the improvement comprising laying a block, having a cutaway portion below the tongue and groove connections, in its approximate final position in the floor panel, flat on the mastic, then sliding the block into its final position to cause interengagement of the said tongue and groove connections, the said cutaway portion providing a recess, for the excess mastic that rolls up in front of the block, and which inhibits seeping through of the mastic to the top of the floor panel.

1,925,071
INTERNAL COMBUSTION ENGINE
Walter R. Griswold, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application February 21, 1930. Serial No. 430,266
10 Claims. (Cl. 74—6)



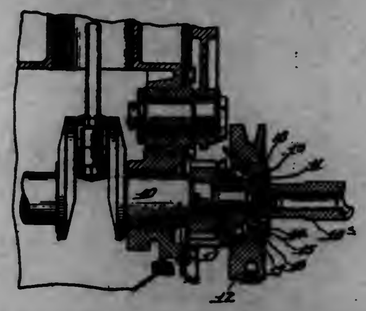
6. In a vibration damper including relatively movable shaft and inertia members, the combination with an elastic compressible damping member forming a connection between said first named members, of yieldable means having less resistance to compression than said elastic member and arranged in series therewith as regards compression, whereby upon compression of said elastic member and said yieldable means the degree of compression of the former will be limited by the latter.

1,925,072
INTERNAL COMBUSTION ENGINE
Walter R. Griswold, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application November 16, 1928, Serial No. 319,794. Renewed October 28, 1931
8 Claims. (Cl. 74—6)



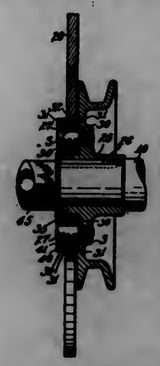
8. A vibration damper for shafts comprising a pair of friction members mounted for rotation with the shaft, an annular rubber supporting member engaged by and interposed between said friction members, means for forcing said friction members together to compress said rubber member, and an inertia member carried by said rubber member.

1,925,073
VIBRATION DAMPER FOR CRANK SHAFTS
Earl G. Gunn, Detroit, Mich., assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application June 10, 1929, Serial No. 369,762
Renewed September 15, 1932
6 Claims. (Cl. 74—6)



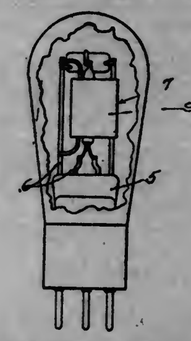
1. A vibration damper comprising a crank shaft having a hub member, a flywheel member, and means clamping said members together in an axial direction including a concentric annular retaining ring rigidly and directly secured to one of said members, and a concentric annular rubber insert interposed under compression between said ring and the other of said members, and permitting limited rotation of said members relative to each other, whereby said rubber insert will be subjected to shearing action on relative vibrational movement of said members.

1,925,074
VIBRATION DAMPER FOR EXPLOSION MOTORS
Thomas J. Litle, Jr., Indianapolis, Ind., assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application July 19, 1928. Serial No. 293,856
16 Claims. (Cl. 74—6)



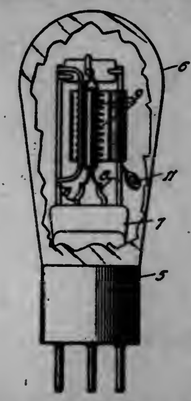
12. A vibration damper for shafts comprising a hub member secured to the shaft, a thin light disk journaled on said hub member, a damper member including rubber bosses resiliently connecting the disk to the hub member in driving relation, and means to simultaneously compress said bosses.

1,925,075
ELECTRODE ELEMENTS OF VACUUM TUBES
Henry Johannes Miller, Chicago, Ill.
Application June 9, 1930. Serial No. 460,108
4 Claims. (Cl. 250—27.5)



3. An electrode for an audion consisting of a metallic body and having a surface coating of an oxide of nickel silicon.

1,925,076
CLEANING AND REGENERATING COMPOUND FOR ELECTRONIC TUBES
Henry Johannes Miller, Chicago, Ill.
Application August 4, 1930. Serial No. 472,888
2 Claims. (Cl. 250—27.5)

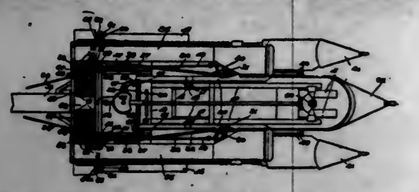


1. A vacuum tube comprising an exhausted envelope, electrodes including a cathode having a coating of alkaline earth oxide, a pellet in said tube consisting of an alloy of tin, barium and magnesium for scavenging and rejuvenating the tube.

1,925,077
CORN PICKER AND HUSKER
Alexus C. Lindgren, Chicago, and Clemmas R. Raney, Riverside, and Rex B. Hitchcock, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application August 19, 1930. Serial No. 476,257
9 Claims. (Cl. 56—18)

1. A corn picker comprising a tractor having a rearwardly extended drawbar, corn gathering mechanisms mounted on each side of the tractor adapted to gather corn from adjacent rows, conveying means mounted at each side of the tractor positioned to receive corn from the gathering

means and deliver it rearwardly, husking means mounted at the rear of the tractor on the drawbar and positioned to receive corn from the re-



spective conveying means, and an elevator carried on the drawbar and positioned to receive corn from the husking means.

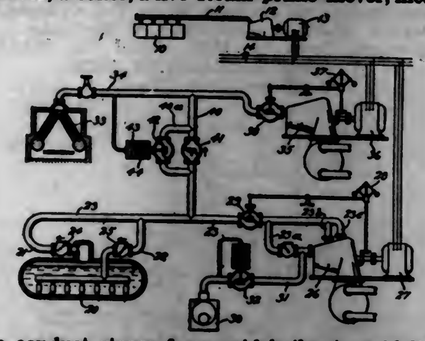
1,925,078

POWER PLANT

Johannes Ruths, Djursholm, Sweden

Application March 28, 1931, Serial No. 525,948
and in Germany April 5, 1930
7 Claims. (Cl. 60—94)

1. In combination with a main power plant including a prime-mover, a reserve power plant comprising a steam accumulator, an accumulator-prime-mover, means to conduct steam from said accumulator to said accumulator-prime-mover, a boiler, a live-steam-prime-mover, means



to conduct steam from said boiler to said live-steam-prime-mover, and means to conduct steam from said accumulator to said live-steam-prime-mover while steam is flowing from the accumulater to the accumulator-prime-mover.

ROLL NO. BE

OFFICIAL GAZETTE
UNITED STATES
PATENT OFFICE

JULY & AUGUST 1933

VOLS. 432 & 433

MICRO — PHOTO INC

CLEVELAND 3, OHIO